

PALM BEACH COUNTY OF COUNTY COMMISSION AGENDA ITEM SUMMARY

☐ Consent ☒ Regular
☐ Workshop ☐ Public Hearing

Submitted By: Department of Airports

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Amendment No. 8 to the General Consulting Agreement with RS&H, Inc. for Consulting/Professional Services in the amount of \$1,106,284.38 for the Concourse B & C Preconditioned (PC) Air Construction Administration; Elevator Modernization – Design, Bidding, and Award Services; and Federal Inspection Services (FIS) and Building 846 Storm Resiliency Modifications Package 3 – Bidding, Award, and Construction Administration Services.

Summary: The Consulting Agreement with RS&H, Inc. for general airport planning and design was approved by the Board on May 7, 2019 (R-2019-0612) in the amount of \$2,004,570.58 in order to carry out the approved Capital Improvement Programs for the County's Airports. Amendment No. 1 was approved by the Board on May 5, 2020 (R-2020-0414) increasing the amount of the contract by \$2,304,608.30. Amendment No. 2 was approved by the Board on October 20, 2020 (R-2020-1607) increasing the amount of the contract by \$3,196,990.03. Amendment No. 3 was approved by the Board on May 4, 2021 (R-2021-0576) exercising the first one (1) year renewal option for the continuation of services provided under this agreement. Amendment No. 4 was approved by the Board on June 15, 2021 (R-2021-0844) increasing the amount of the contract by \$2,644,110.87. Amendment No. 5 was approved by the Board on March 22, 2022 (R-2022-0263) increasing the amount of the contract by \$1,325,943.87 and exercising the second and final one year renewal option. Amendment No. 6 was approved by the Board on January 24, 2023 (R-2023-0103) increasing the amount of the contract by \$1,175,706.57. Amendment No. 7, approved by the Board on April 4, 2023 provided an additional \$1,109,482.80. Approval of Amendment 8 will provide an additional \$1,106,284.38 to complete Task I Services - Concourse B & C PC Air Construction Administration; Elevator Modernization – Design, Bidding, and Award Services; and FIS and Building 846 Storm Resiliency Modifications Package 3 – Bidding, Award, and Construction Administration Services. RS&H, Inc. is a Jacksonville, Florida based firm; however, the majority of the work to be completed in this agreement will be managed through their Fort Lauderdale, Florida offices in conjunction with several Palm Beach County-based and South Florida-based sub-consultants and firms. A Disadvantaged Business Enterprise (DBE) goal of 18% was set for this contract. RS&H, Inc. committed to 23% DBE participation for this agreement. The anticipated DBE participation including this amendment is 38.01%. The current paid to date DBE participation is 37.64%. The DBE participation for this Amendment is 22.05%. Pursuant to changes to Chapter 332, Florida Statutes, effective October 1, 2020, a governing body of a commercial service airport may not approve purchases of contractual services in excess of the Category Five threshold amount of \$325,000 provided in Section 287.017, Florida Statutes, on a consent agenda. This amendment exceeds the threshold amount and must be approved on the regular agenda. **Countywide (AH)**

Background and Policy Issues: 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 provides performance of Concourse B & C PC Air Construction Administration; Elevator Modernization – Design, Bidding, and Award Services; and FIS and Building 846 Storm Resiliency Modifications Package 3 – Bidding, Award, and Construction Administration Services.

Attachments:

1. Amendment No. 8 with RS&H, Inc. – 2 Originals
2. DBE Goal Information

Recommended By: CAR Laura Bube 3-15-23
Department Director Date

Approved By: UBaker 4/5/23
County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2023	2024	2025	2026	2027
Capital Expenditures	\$1,106,284.38				
Operating Costs					
External Revenues (Grants)					
Program Income (County)					
In-Kind Match (County)					
NET FISCAL IMPACT	\$1,106,284.38				
# 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 A392-445 Object 6504
Reporting Category_____

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

Approval of this item will result in an increase of \$1,106,284.38 in services related to RS&H; which is in the current budget.

C. Departmental Fiscal Review:

3/15/23

III. REVIEW COMMENTS

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

APR 3/22/23
OFMB [signature] [signature]

3-21-23

Ar. S. Javaher 3/31/23
Contract Dev. and Control
fnd 3/27/23

B. Legal Sufficiency:

Anne Pellet 4/4/23
Assistant County Attorney

C. Other Department Review:

Department Director

REVISED 11/17

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

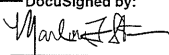
CERTIFICATION OF
AUTHORIZING SIGNATORY FOR
PALM BEACH COUNTY CONTRACTS

I, Marlon F. Starr, Executive Vice President, Chief Legal Officer, and Corporate Secretary of RS&H, Inc., a Florida Corporation (the “Corporation”), hereby certify that:

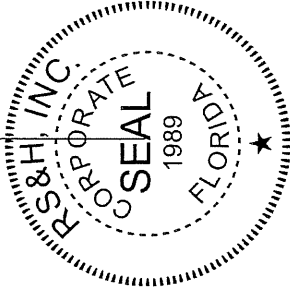
- (1) The Corporation is duly organized and existing under the laws of the State of Florida, and
- (2) Andrew P. Wheeler is an Executive Vice President of the Corporation and is authorized and empowered to execute in the name of the Corporation all proposals, agreements, supplements, contracts, and other documents he may deem necessary or appropriate, in connection with Palm Beach County, Florida.

I further certify that the foregoing authorization shall remain in full force and effect until written notice of amendment or rescission shall have been received by the County, and that receipt of such notice shall not affect any action taken by the authorized officer prior thereto.

IN WITNESS WHEREOF, I have hereto subscribed my name and affixed the Seal of the Company this 6th day of February, 2023.

DocuSigned by:


Marlon F. Starr
Corporate Secretary



AMENDMENT NO. 8 TO CONTRACT
BETWEEN
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS
AND
RS&H, INC.
FOR
FOR CONSULTING / PROFESSIONAL SERVICES
AT
PALM BEACH COUNTY AIRPORTS

This Amendment No. 8 to the Contract is made as of the _____ day of _____, 2023, by and between **Palm Beach County**, a Political Subdivision of the State of Florida, by and through its Board of Commissioners, hereinafter referred to as the **COUNTY**, and **RS&H, Inc.**, [] an individual, [] partnership, [X] a corporation authorized to do business in the State of Florida, hereinafter referred to as the **CONSULTANT**, whose Federal Tax I.D. number is 59-2986466.

WITNESSETH

WHEREAS, on May 7, 2019, the COUNTY entered into an Agreement (R2019-0612) with the CONSULTANT for the CONSULTANT to provide Consulting / Professional Services for the Palm Beach County Department of Airports at Palm Beach County Airports (PBI, F45, LNA, & PHK); and

WHEREAS, on May 5, 2020, the COUNTY entered into an Amendment No. 1 (R-2020-0414) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 26 of the original Agreement; and

WHEREAS, on October 20, 2020, the COUNTY entered into an Amendment No. 2 (R-2020-1607) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 26 of the original Agreement; and

WHEREAS, on May 4, 2021, the COUNTY entered into an Amendment No. 3 (R-2021-0576) with the CONSULTANT to exercise the first one (1) year renewal option for the continuation of services; and

WHEREAS, on June 15, 2021, the COUNTY entered into an Amendment No. 4 (R-2021-0844) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 26 of the original Agreement; and

WHEREAS, on March 22, 2022, the COUNTY entered into an Amendment No. 5 (R-2022-0263) with the CONSULTANT to exercise the second and 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 26 of the original Agreement; and

RS&H, INC.
MARCH 2023

AMENDMENT 8 TO R2019-0612
1 CONTRACT FOR CONSULTING/PROFESSIONAL SERVICES

WHEREAS, on January 24, 2023, the COUNTY entered into an Amendment No. 6 (R-2023-0103) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 26 of the original Agreement;

WHEREAS, on April 4, 2023, the COUNTY entered into an Amendment No. 7 (R-2023-) with the CONSULTANT to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 26 of the original Agreement;

WHEREAS, Article 26 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-Hundred Six Thousand, Two Hundred Eighty-Four Dollars and Thirty-Eight Cents (\$1,106,284.38) for the services in Amendment No. 8 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 Eighth 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, RS&H, Inc., has caused these presents to be signed in its corporate name by its duly authorized officer (Name) Andrew P. Wheeler , (Title) Executive Vice President acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:

JOSEPH ABRUZZO
CLERK OF THE COUNTY COURT
AND COMPTROLLER

PALM BEACH COUNTY, FLORIDA

BOARD OF COUNTY COMMISSIONERS

By: _____
Deputy Clerk

By: _____
Gregg K. Weiss, Mayor

WITNESS:

DocuSigned by:
Shelly McLane
E1F054881E02490

SIGNATURE

Shelly McLane
Name (type or print)

CONSULTANT:

RS&H, Inc.
COMPANY NAME

DocuSigned by:
ANDREW WHEELER
77D454D6815844B...

Signature

Andrew P. Wheeler
Name (type or print)

Executive Vice President
Title

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

BY: Anne Helgent
County Attorney

(Corporate Seal)

APPROVED AS TO TERMS
AND CONDITIONS

By: Laura Beck
Department Director

RS&H, INC.
MARCH 2023

AMENDMENT 8 TO R2019-0612
3 CONTRACT FOR CONSULTING/PROFESSIONAL SERVICES

AMENDMENT NO 8 INDEX

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 8

EXHIBIT A-1 – Task I-23-PBI-R-027: Concourse B & C PC Air Construction Administration

EXHIBIT A-2 – Task I-23-PBI-R-030: Elevator Modernization: Design and Bidding & Award Services

EXHIBIT A-3 – Task I-23-PBI-R-034: FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services

EXHIBIT A-4 – Task III Services

EXHIBIT B: DETAILED FEES, EXPENSESE AND PAYMENTS

Exhibit B-II: Summary of Fees

EXHIBIT B-II: Schedule of Payments

EXHIBIT C – PROPOSED SCHEDULES

EXHIBIT D – DISADVANTAGED BUISINESS ENTERPRISE COMPLIANCE

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
DX00000525	RS&H, Inc.	Modified	Compliant					DOA 18-2A	Consulting/Professional Services
		A+g , XV	Zurich American Insurance Company	BAP146956400	6/28/2022	6/28/2023	Auto Liability		
		A+g , XV	American Guarantee and Liability Insurance Company	AUC146955800	6/28/2022	6/28/2023	Excess Liability		
		A , XV	Lloyd's	B0146LDUSA2204895	6/28/2022	6/28/2023	Excess Liability		
		A++g , XV	Travelers Property Casualty Company of America	EX6T35064A22NF	6/28/2022	6/28/2023	Excess Liability		
		A+g , XV	Zurich American Insurance Company of Illinois	GLO146640900	6/28/2022	6/28/2023	General Liability		
		A , XV	Lloyd's	B0146LDUSA2204894	6/28/2022	6/28/2023	Professional Liability		
		A+g , XV	Zurich American Insurance Company	WC146641000	6/28/2022	6/28/2023	Workers Comp		

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

EXHIBIT A: AMENDMENT NO. 8

This Amendment No 8 is in accordance with the Contract for Consulting/Professional Services (Agreement R-2019-0612) between Palm Beach County (COUNTY) and RS&H, Inc. (CONSULTANT) dated May 7, 2019.

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 8

EXHIBIT A-1 – Task I-23-PBI-R-027: Concourse B & C PC Air Construction Administration

EXHIBIT A-2 – Task I-23-PBI-R-030: Elevator Modernization: Design and Bidding & Award Services

EXHIBIT A-3 – Task I-23-PBI-R-034: FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services

EXHIBIT A-4 – Task III Services

EXHIBIT B: DETAILED FEES, EXPENSESE AND PAYMENTS

Exhibit B-II: Summary of Fees

EXHIBIT B-II: Schedule of Payments

EXHIBIT C – PROPOSED SCHEDULES

EXHIBIT D – DISADVANTAGED BUISNESS ENTERPRISE COMPLIANCE

**Concourse B & C PC Air
Construction Administration
Scope of Work**

Version 1.0
February 21, 2023
Palm Beach County (PBC) Department of Airports (DOA)
West Palm Beach, FL
Task Authorization No. I-23-PBI-R-027
RS&H Project No.: 2006-3101-027

Prepared by RS&H, Inc. at the
direction of PBC DOA



I PROJECT DESCRIPTION

The Palm Beach County of Airports has requested that RS&H (Consultant) under Agreement with RS&H for Airport Facilities and System Consulting Services for Palm Beach County Department of Airports Project No. DOA 18-2A provide a scope and fee for Construction Administration Services for the Concourse B & C PC Air Replacement Project at Palm Beach International Airport (Project).

The following professional disciplines/services/specialties are expected to play a significant role in the development of the Project:

- » Project Management
- » Architecture
- » Mechanical Engineering
- » Electrical Engineering
- » Low Voltage Systems

The Consultant design team is made up of the following professionals:

<u>Consultant/Subconsultant</u>	<u>Involvement</u>
RS&H	Project Management, Mechanical Engineering CA, Architecture CA, Low Voltage Systems CA
Quantum Electrical Engineering	Electrical CA

This proposal is to provide construction administration to support the construction phase of the PC Air replacement project (Task I-20-PBI-R-020).

Funding Expectations – The Project’s total estimated construction cost is \$13.0 million per the MC18 PC Air Replacement for Concourse B & C Constructability Report Rev 1 dated 1/12/23 by the CMAR plus estimated General Conditions and Staffing. Changes to the project cost may require changes in the Consultant’s efforts and require adjustments to the compensation indicated in this proposal.

Project Duration – The Project’s schedule is estimated to be approximately 390 calendar days (13 months). The actual schedule may vary once the project is awarded for construction. Changes to the project schedule may require changes in the Consultant’s efforts and require adjustments to the compensation indicated in this proposal.

Project includes the following Tasks:

- » Task 1: Construction Administration Services
- » Task 2: Project Closeout

II PROJECT TASKS

TASK 1 CONSTRUCTION ADMINISTRATION SERVICES

The scope (and fee) proposed under this task is based upon an estimated total construction duration of thirteen (13) months. The scope and fee may need to be modified should the construction duration exceed this time. Specific task breakdowns are as follows:

Task 1.1 Pre-Construction Conference

The Consultant shall attend one (1) pre-construction conference meeting at the Airport. The CMAR will prepare the Pre-Construction Meeting agenda and meeting minutes, and distribute the minutes to appropriate parties

The following disciplines/individuals will be present from the Consultant team:

- » Project Manager
- » Electrical Engineer

Task 1.2 RFI / Substitutions / Submittal Review

The Consultant shall review and respond to Request for Information (RFI's), substitution requests and submittals (shop drawings) furnished by the CMAR to the Consultant. The Consultant shall review and approve as required. The Consultant will utilize Newforma for tracking, reviewing, and responding to RFIs and submittals.

Proposal is based on an estimated maximum of (25) twenty-five RFI's

Proposal is based on a maximum of (25) twenty-five submittals and (5) five re-submittal. Submittal review will be limited to the initial review and a single resubmittal. Any submittal reviews beyond two is excluded.

Task 1.3 Construction Meetings

Members of the Consultant Team shall participate in bi-weekly construction coordination meetings until the Contractor has mobilized, approximately (2) two months. Once the Contractor has mobilized and is on-site, members of the Consultant Team shall participate in weekly construction coordination meetings, approximately (11) eleven months. Each meeting is anticipated to be (1) one hour.

- » Pre-Mobilization: (4) meetings total
 - (4) Meetings - The Consultant will participate via ZOOM or another virtual program.
 - The following individuals will be present from the Consultant team at each construction meeting (remote or on-site as noted above):

- Project Manager
- Electrical Engineer
- » Post-Mobilization: (44) forty-four meetings total
 - (11) Meetings - The Consultant will be on-site. On-site participation in construction meetings will be coupled with regularly scheduled monthly site visits of Task 1.4
 - The following disciplines/individuals will be present from the Consultant team at each construction meeting (remote or on-site as noted above):
 - Project Manager
 - Electrical Engineer
 - (33) Meetings - The Consultant will participate via ZOOM or another virtual program throughout the duration of construction for remote meetings.
 - The following disciplines/individuals will be present from the Consultant team at each construction meeting
 - Project Manager
 - Electrical Engineer
 - » Post-Mobilization: Meeting total varies
 - The Consultant will participate via ZOOM or another virtual program.
 - The following disciplines/individuals from the Consultant team can be available as necessary for the number indicated:
 - Architect: Up to (4) four construction meetings*
 - Mechanical Engineer: Up to (4) four construction meetings*
 - Low Voltage Systems: Up to (6) six construction meetings*

The CMAR shall conduct the meetings, prepare agendas and provide the meeting minutes.

Task 1.4 Construction Progress Site Visits

The Consultant will conduct construction progress site visits as follows and a written observation report, documenting the findings of the site visit will be provided for each site visit:

- » Project Manager will conduct monthly construction progress site visits, (11) eleven visits averaging (1) one site visit per month
- » Electrical Engineer will conduct weekly construction progress site visits, averaging (4) four hours per week while the Contractor is on-site (11 months)
- » Mechanical Engineer will visit site as necessary for up to (3) three site visits*
- » Low Voltage Systems will visit site as necessary for up to (5) five site visits*
- » Unassigned Site Visits: An additional (8) eight site visits to be used as necessary*

Task 1.5 Field Bulletins and Field Instruction & Change Request Orders

The Consultant will prepare documentation to issue Field Bulletins and Field Instructions due to unforeseen conditions with the approval of the Airport. The Consultant will review Change Request Orders submitted by CMAR and provide recommendation of acceptance or rejection to the Owner.

Task 1.6 Substantial Completion Observation and Punchlist

The Consultant shall perform, together with the Airport’s authorized representative(s), a substantial completion observation of the project at each PCA unit turnover. The Consultant shall prepare a punchlist of items that must be completed that are deficient. The Owner shall submit CMAR generated phase punchlist to the Consultant prior to observation. There are (15) fifteen anticipated turnovers for the project.

The following disciplines/individuals will be present from the Consultant team at each Substantial Completion Observation:

- » Project Manager
- » Electrical Engineer

Task 1.7 Final Observation

The Consultant shall perform a final observation at each PCA unit turnover to determine if the project has been completed in accordance with the contract documents, completion of punchlist of Task 1.6, and if the CMAR has fulfilled all of its obligations thereunder so that the Consultant may recommend approval (from Airport) if applicable, in writing, the issuance of a Certificate of Substantial Completion for each turnover (ie Partial Certificate of Substantial Completion) and final payment to the CMAR. There are (15) fifteen anticipated turnovers for the project.

The following disciplines/individuals will be present from the Consultant team at each Final Observation:

- » Project Manager

Task 1.8 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the Consultant team’s efforts including assembly and coordination of all documentation.

The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project.

Task 1.9 Short Circuit, Device Coordination & Arc Flash Analysis

Consultant (Quantum) will update the existing Short Circuit, Device Coordination & Arc Flash Study pertaining to the electrical equipment added, removed and/or modified as part of the PBI PC Air Replacement Project. The scope shall include

- » Updating the existing power system model in SKM Power Tools for Windows
- » Re-run the Short Circuit, Device Coordination and Arc Flash Calculations
- » Updating one-lines, written report and tabular data
- » Develop arc flash labels on new/modified equipment

TASK 2 PROJECT CLOSEOUT

Project closeout includes the preparation of the record documents, final BIM models, and final invoicing.

Task 2.1 Record Documents

The Consultant shall obtain red-line as-built drawings from Construction Contractor and prepare "Record Drawings", which shall become the property of the Airport corrected to show significant changes made in the work during the construction of the project. Such corrections shall be the "as-built" prints, drawings, field sketches and other data furnished to the Consultant by the Airport and the contractor, and any amendments issued during construction.

- » Electronic updated drawings (.pdf)
- » Electronic updated specifications (.pdf)
- » Electronic updated drawings (CAD)

Task 2.2 Warranty Period Inspection

The Consultant shall conduct an on-site observation of the Project prior to the expiration of any equipment warranty period and advise the Owner of recommended action, if any, to be taken under the terms of any warranty. The project will include an (11) eleven-month warranty inspection for the project. As the project will have various phased warranty periods for the PCA units and electrical equipment, there will be a requirement for multiple warranty period inspections. This proposal includes the following warranty period inspections:

- » Electrical Engineer: (15) Fifteen site visits for warranty period inspections.

Task 2.3 Project Management and Discipline Coordination

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the team's efforts including assembly and coordination of all documentation.

The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project.

III MEETINGS AND PRESENTATIONS

The following meetings and presentations will be attended as part of this proposal:

Task	Presentation / Meeting / Site Visit	Total Meetings	In-Person Meetings/Site Visits	Conference Calls/ Web-Based
1.1	Preconstruction Conference	1	1	
1.3	Construction Meetings	48	11	37
1.4	Construction Progress Site Visits	11	11	0
1.6	Substantial Completion	15	15	0
1.7	Final Observation	15	15	0
2.2	Warranty Period Inspection	15	15	0

IV DELIVERABLES

The following deliverables will be submitted as part of this proposal:

Task	Deliverable	Format
1.4	Construction Progress Site Visit Reports	PDF
1.6	Substantial Completion Punch List Reports	PDF
1.8	Monthly Project Status Reports	PDF
2.1	Record Drawings and Specifications	PDF and CAD
2.2	Warranty Period Inspection Reports	PDF
2.3	Monthly Project Status Reports	PDF

V ASSUMPTIONS AND EXCLUSIONS

The following assumptions have been made for this Scope of Work:

- » CMAR will provide punchlist to Consultant at each phase prior to Substantial Completion site visit
- » The CMAR shall conduct the meetings, prepare agendas and provide the meeting minutes.

The following items are excluded from this Scope of Work unless otherwise noted:

- » Submittal reviews beyond two
- » Construction Progress Site Visits other than listed herein

- » Owner directed changes that require additional design and documentation effort from the Consultant will be handled through an amendment to the contract. No changes will be executed, and no work progressed associated with those changes without prior approval from the Airport.
- » RS&H will only perform services/work related in any way to PFAS chemicals or substances possibly containing PFAS chemicals (including but not limited to sampling, handling and remediating) to the extent the Palm Beach County Department of Airports specifically directs, in writing, RS&H to perform such services/work, and RS&H shall not be liable for the nonperformance of such services/work.

VI PROFESSIONAL SERVICES FEE AND FEE TYPE

The Consultant will provide the above referenced services for a Fixed Lump Sum Fee as shown below. See Attachment A for a breakdown of costs.

Tasks 1 & 2 = \$311,646.41

The Consultant will provide the above referenced services noted with (*) for a Maximum Not-to-Exceed Fee as shown below. See Attachment A for a breakdown of costs.

Tasks 1 & 2 = \$ 87,962.78

Total Fee as follows:

Lump Sum Fee (Task 1 & 2) = \$311,646.41
Maximum Fee, Not-to-Exceed (Task 1 & 2) = \$ 87,962.78

Total Project Fee = \$399,609.19

Should scope items/activities/efforts/durations be modified at the request of the Airport or need to be adjusted based on design/construction scheduling, the Consultant Team will need to modify the fee to accommodate the changes. Such changes will be compensated through an amendment (through Additional Services requested by the Consultant) to the Task Order or similar vehicle. Effort, fee, and schedule adjustments resulting from a change in scope will be assessed and approved by the Airport prior to the execution of the change.

ATTACHMENT A: FEE BREAKDOWN

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS					
Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services					
RS&H, INC.					
PC Air Replacement Construction Administration					
Task Authorization No. I-23-PBI-R-027					
		Lump Sum		NTE	
<u>Task</u>	<u>Description</u>	<u>Hours</u>	<u>Fee</u>	<u>Hours</u>	<u>Fee</u>
Task 1	Construction Administration Services	965	\$ 240,517.54	206	\$ 54,844.78
Task 2	Project Closeout (Lump Sum)	52	\$ 10,685.52	0	\$ -
Subtotal RS&H Labor Hours		1,017		206	
Subtotal RS&H Labor Fee			\$ 251,203.06		\$ 54,844.78
<u>Subconsultants</u>					
	Quantum Electrical Engineering, Inc. (Lump Sum)		\$ 60,443.35		\$ -
Subtotal Subconsultant Fee			\$ 60,443.35		\$ -
<u>Expenses</u>					
	Travel		\$ -		\$ 33,118.00
	Other		\$ -		\$ -
Subtotal Expenses					\$ 33,118.00
Project Fee			\$ 311,646.41		\$ 87,962.78
Total Project Fee			\$		399,609.19

PC Air Replacement Construction Administration														
Average Burdened Labor Rate														
			HOURS							HOURS	TOTAL COST (\$)-LS	HOURS	TOTAL COST (\$)-NTE	
			Principal \$349.09	Senior Project Manager \$287.02	Sr. Engineer \$240.63	Engineer \$151.55	Sr. Engineer \$340.63	Sr. Engineer \$246.63	Engineer \$151.55					Admin. Assistant \$69.37
			Principal	PM	Mechanical	Mechanical	IT	Civil	Civil	PM				
Task 1			Construction Administration Services											
1.1		Pre-Construction Conference									-	\$0.00		
		Project Manager		12.0							12	\$3,444.24		
1.2		RFI's Reviews									-	\$0.00		
		Project Manager		24.0						24.0	48	\$8,337.36		
		Mechanical			24.0	32.0					56	\$10,768.72		
		IT					20.0				20	\$4,932.60		
		Submittal Reviews									-	\$0.00		
		Project Manager		16.0						40.0	56	\$7,007.12		
		Mechanical			24.0	32.0					56	\$10,768.72		
		IT					20.0				20	\$4,932.60		
		Substitution Reviews									-	\$0.00		
		Project Manager		4.0							4	\$1,148.08		
		Mechanical			2.0	2.0					4	\$796.36		
		IT					2.0				2	\$493.26		
1.3		Construction Progress Meetings									-	\$0.00		
		Pre-mobilization Meeting (Remote)									-	\$0.00		
		Project Manager		4.0							4	\$1,148.08		
		Post Mobilization Meetings (Remote)									-	\$0.00		
		Project Manager		33.0							33	\$9,471.66		
		Architect (up to 4)*		4.0								\$0.00	4	\$1,148.08
		Mechanical (up to 4)*			4.0							\$0.00	4	\$986.52
		IT (up to 6)*					6.0					\$0.00	6	\$1,479.78
1.4		Construction Progress Site Visits									-	\$0.00		
		Project Manager		132.0							132	\$37,886.64		
		Mechanical (up to 3)*			36.0							\$0.00	36	\$8,878.68
		IT (up to 5)*					60.0					\$0.00	60	\$14,797.80
		Unassigned (up to 8)*		96.0								\$0.00	96	\$27,553.92
1.5		Change Directives and Change Notices & Change Request C									-	\$0.00		
		Project Manager		8.0							8	\$2,296.16		
		Civil									-	\$0.00		
		Mechanical			4.0	8.0					12	\$2,198.92		
		IT					6.0				6	\$1,479.78		
1.6		Substantial Completion and Punchlist									-	\$0.00		
		Project Manager		180.0							180	\$51,663.60		
1.7		Final Observation									-	\$0.00		
		Project Manager		180.0							180	\$51,663.60		
1.8		Project Management and Project Coordination									-	\$0.00		
		Project Manager	20	72.0						40.0	132	\$30,080.04		
1.9		Short Circuit, Device Coordination & Arc Flash Study									-	\$0.00		
		Project Manager									-	\$0.00		
Task Total			20	785	94	74	114	-	-	104	965	\$240,517.54	206	\$54,844.78
Task 2			Project Closeout											
2.1		Record Documents									-	\$0.00		
		Project Manager		8.0							8	\$2,296.16		
		Civil									-	\$0.00		
		Mechanical			2.0	4.0					6	\$1,099.46		
		IT					6.0				6	\$1,479.78		
2.3		Project Management and Project Coordination									-	\$0.00		
		Project Manager	4	12.0						16.0	32	\$5,810.12		
Task Total			4	20	2	4	6	-	-	16	52	\$10,685.52	-	\$0.00
TOTAL FOR ALL TASKS (RS&H)			24	785	96	78	120	-	-	120	1,017	\$251,203.06	206	\$54,844.78

PC Air Replacement Construction Administration											
EXPENSES											
TRAVEL											
Task	Description	# Trips	# People	# Days	Airfare \$600	Car \$80	Lodging \$200	Per Diem \$93	Pkg \$25		
1.1	Pre-Construction Conference	1	1	2	\$0	\$160	\$200	\$186	\$25		\$571
1.4	Construction Progress Site Visits	27	1	2	\$0	\$4,320	\$5,400	\$5,022	\$675		\$15,417
1.6	Substantial Completion and Punchlist	15	1	2	\$0	\$2,400	\$3,000	\$2,790	\$375		\$8,565
1.70	Final Observation	15	1	2	\$0	\$2,400	\$3,000	\$2,790	\$375		\$8,565
								SUBTOTAL TRAVEL			\$33,118
OTHER EXPENSES											\$0
Reprographics						\$0					\$0
Badging						\$0					\$0
Specific Airport Fees						\$0					\$0
Others						\$0					\$0
								SUBTOTAL OTHER EXPENSES			\$0
TOTAL EXPENSES											\$33,118

PC Air Replacement Construction Administration

Sub Consultant Effort by Major Task Item			
	Task 1	Task 2	
Quantum Electrical Engineering, Inc. <i>Electrical & RPR</i>	\$ 56,451.08	\$ 3,992.27	\$ 60,443.35
TOTAL SUBCONSULTANTS			\$ 60,443.35

ATTACHMENT B: SUBCONSULTANT PROPOSALS

QUANTUM

Electrical Engineering, Inc.

June 9, 2022

RS&H, Inc.
Mr. Aaron Jackson, PE, LEED AP
Aviation Structural Engineer
10748 Deerwood Park Blvd. South
Jacksonville, FL 32256

Subject: Electrical Engineering Construction Administration (CA) Services Fee Proposal for the Palm Beach County Department of Airports (DOA) - Palm Beach International Airport Concourse B & C PC Air Replacement Project. Includes Task 1 and 2 as reflected in RSH Scope of Services, Dated May 25, 2022

Dear Aaron:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide RS&H an electrical engineering Construction Administration (CA) services fee proposal for the Palm Beach International Airport Concourse B & C PC Air Replacement Project Task 1 and 2 with an anticipated construction duration of 390 calendar days. The following tasks are included in our scope:

Task 1: Construction Administration Services

Task 1.1: Pre-Construction Conference

- Includes attendance at pre-construction meeting.

Task 1.2: RFI/Substitutions/Submittal Review

- Includes requests for information reviews & approvals.
- Includes substitution request reviews & approvals.
- Includes electrical shop drawings submittals reviews & approvals. Assumption of 15 shop drawings.

Task 1.3: Construction Progress Meetings

- Includes attendance in bi-weekly construction coordination meetings either virtually or via teleconference for (2) months until the Contractor is mobilized. Assume meetings will be (1) hour in duration.
- Includes attendance in weekly construction coordination meetings for (11) months when Contractor has mobilized and is on-site. Assume meetings will be (1) hour in duration. Assume (33) virtual or teleconference meetings and (11) on-site meetings.

Task 1.4: Construction Progress Site Visits

- Includes weekly on-site observation visits by field engineer averaging (4) hours per week for (11) months.
- Includes (1) monthly on-site observation visits by EOR averaging (2) hours each for (11) months.
- Includes a written observation report, documenting the findings of each site visit.

Task 1.5: Change Directives and Change Notices

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

www.QuantumElectricalEngineering.com

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

Page 2
Mr. Aaron Jackson, P.E.
Electrical Engineering CA Services Fee Proposal for the PC Air Replacement Project

- Includes change order reviews.
- Includes minor plan alterations and revisions.

Task 1.6: Substantial Completion Observation and Punchlist

- Includes up to 15 site visits for substantial completion inspections.
- Development of electrical punch list per each substantial completion inspection.

Task 1.7: Final Observation

- Includes up to 15 site visits for final completion inspections.

Task 1.9: Short Circuit, Device Coordination & Arc Flash Analysis

- Up-dating the existing power system model in SKM Power Tools for Windows for the modifications to the electrical distribution systems serving the PC Air equipment.
- Perform Short Circuit, Device Coordination and Arc Flash Calculations using SKM.
- Update one-lines, written report and tabular data.
- Develop Arc Flash labels on new/modified equipment.
- Modify circuit breaker settings and adhere new arc flash labels to equipment.

Task 2: Project Closeout

Task 2.1: Record Documents

- Include review of Contractor “Red Line Plan Mark-ups.”
- Includes development of record drawings based on Contractor “Red Line Plan Mark-ups.”

Task 2.2: Warranty Period Inspection

- Includes up to 15 site visits for warranty period inspections.
- Development of electrical warranty discrepancy list per each inspection.

Exclusions and Assumptions

- Quantum shall provide one electronic set of record plans for Task 2 to RS&H in PDFs and AutoCAD. RS&H shall provide all distribution and printing of all documents to DOA.

Our proposed Not-To-Exceed for Task 1 is:	\$ 56,451.08
Our proposed Not-To-Exceed Fee for Task 2 is:	\$ 3,992.27
Our proposed total fee is:	\$ 60,443.35
(See Attachment for Breakdown)	

Sincerely,



Amy Champagne-Baker, PE
President

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

www.QuantumElectricalEngineering.com

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

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIA CONCOURSE B & C PC AIR REPLACEMENT PROJECT										
QUANTUM ELECTRICAL ENGINEERING, INC.										
SCOPE FEE SUMMARY										
FEE PROPOSAL ELECTRICAL SERVICES TO RS&H 06/09/2022										
	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15			
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total	Lump Sum	TOTAL	
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Task	TASK COST	
Task 1: Construction Administration Services										
Task 1.1: Pre-Construction Conference		1			1		2		\$276.92	
Task 1.2: RFI/Substitutions/Submittal Review		30				10	40		\$4,788.40	
Task 1.3: Construction Progress Meetings (48 meetings at 1hr ea)		48					48		\$6,923.04	
Task 1.4: Construction Progress Site Visits (44 visits at 4hrs ea)		22			176	30	228		\$27,911.00	
Task 1.5: Change Directives and Change Notices		16		16		4	36		\$3,599.96	
Task 1.6: Substantial Completion Observation and Punchlist (15 visits at 2hrs ea)		30				15	45		\$5,019.15	
Task 1.7: Final Observation (15 visits at 1hrs ea)		15					15		\$2,163.45	
Task 1.9: Short Circuit, Device Coordination & Arc Flash Analysis		24	12	4		8	48		\$5,769.16	
Subtotal	0	186	12	20	177	67	462		\$56,451.08	
Task 2: Project Closeout										
Task 2.1: Record Documents		1	4	8	4	1	18		\$1,828.82	
Task 2.2: Warranty Period Inspection (6 visits at 1hr ea)		15					15		\$2,163.45	
Subtotal	0	16	4	8	4	1	33		\$3,992.27	
Grand Total Hours	0	202	16	28	181	68	495			
Grand Total Labor Cost	\$0.00	\$29,134.46	\$2,215.36	\$1,938.44	\$24,016.89	\$3,138.20			\$60,443.35	

EXHIBIT A-2 – Task I-23-PBI-R-030: Elevator Modernization: Design and Bidding & Award Services

***Elevator Modernization:
Design and Bidding & Award
Services***

Version 1.0
March 3, 2023
Palm Beach County (PBC) Department of Airports (DOA)
West Palm Beach, FL

Task Authorization No. I-23-PBI-R-030
RS&H Project No.: 2006-3101-030

Prepared by RS&H, Inc. at the
direction of PBC DOA.



I PROJECT DESCRIPTION

The Airport has requested that RS&H (Consultant) under the Agreement with RS&H for Airport Facilities and System Consulting Services for Palm Beach County Department of Airports Project No. DOA 18-2A provide a scope and fee for Design and Bidding & Award Services for the Elevator Modernization Project at Palm Beach International Airport (Project).

The following professional disciplines/services/specialties are expected to play a significant role in the development of the Project:

- » Project Management
- » Architecture/Life Safety
- » Structural Engineering
- » Mechanical Engineering
- » Plumbing Engineering
- » Fire Protection Engineering
- » Electrical Engineering
- » Lighting
- » Power
- » Addressable Fire Alarm
- » Low Voltage Systems
- » Security (Access Control and CCTV)

The Consultant’s Design Team is made up of the following professionals:

<u>Consultant/Subconsultant</u>	<u>Involvement</u>
RS&H, Inc.	Architecture/Life Safety, Structural, Mechanical, Plumbing, Fire Protection, Low Voltage, Project Management
Quantum Electrical Engineering, Inc.	Electrical – Power, Lighting, Fire Alarm
Lerch Bates	Elevator Consultant
Connico, LLC	Cost Estimating

Project includes the following Tasks:

- » Task 1: Existing Documentation
- » Task 2: Phase 3A: 60% Construction Documents
- » Task 3: Phase 3C: 100% Construction Documents
- » Task 4: Phase 4: Bidding and Award of Contract

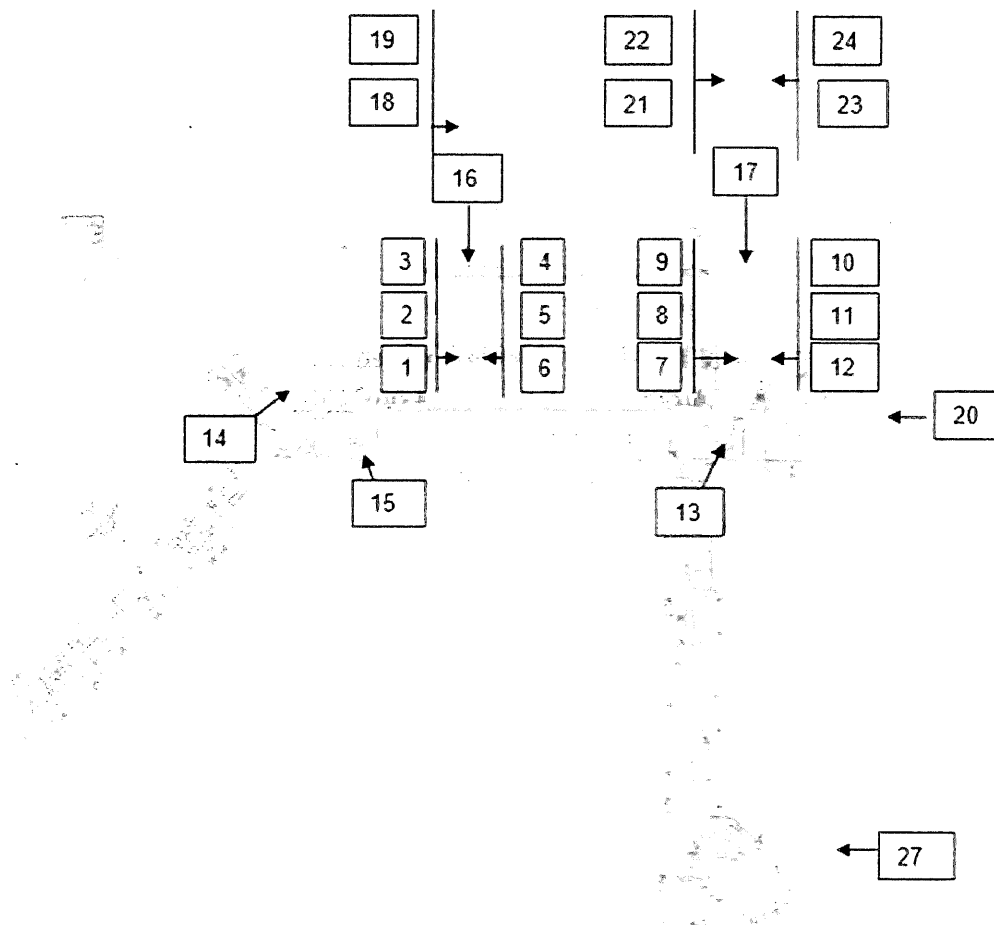


FIGURE 1: ELEVATOR LOCATIONS

This proposal is to provide design for construction documents and bidding & award services for the modernization of twenty-five (25) elevators at Palm Beach International Airport's Terminal and Parking Garages.

Funding Expectations – The Project’s total construction cost is approximately \$8M to \$9M in 2021 dollars per the Task I-20-PBI-R-022 Elevator Assessment Report dated March 5, 2021.

Project Duration – The Project’s schedule is defined in the accompanying Project Schedule. The actual schedule may vary as the Project design progresses and the scope is further developed.

The scope for the work shall include the required elements, systems and equipment typical of an Elevator Modernization project including as guided by the 2021 Elevator Assessment Report, and the following items:

- » Modification to Elevator Machine Room for Elevators 1 through 6, 7 through 12, and 15 to correct non-code compliant elements.
 - Elevator Machine rooms for Elevators 1 through 6 and 7 through 12:
 - CCTV head-end equipment and associated infrastructure
 - Access to roof
 - Elevator Machine Room for Elevator #15:
 - CO2 line and fire alarm monitor module along with associated infrastructure for an exterior mounted fire phone
- » Repair of water leak at elevators 21 through 24 glazing
- » Fire Protection / Fire Alarm
 - Sprinklers added to Elevator 13, 15, 16, 17
 - Smoke and/or Heat Detectors added to Elevator 13, 15, 16, 17
- » Structural
 - New sump wells in elevator pits 13, 15, 16, 17 & 20.
 - ASME A17.1 Section 2.2.2.6 states that where sump pumps in elevator pits are to provided, the sump pump must be covered and the cover level with the pit floor (ie a sump well must be provided).
- » Plumbing
 - New sump pumps in elevators 13, 15, 16, 17, 20, & 27
 - Note: New sump pump in elevator pits 13, 15, 16, 17, 20, & 27 assumes AHJ will accept design to include pump with oil detection alarm and elevator 16 & 17 can drain to storm as there is no sanitary nearby.
- » Low Voltage
 - Infrastructure to support Elevator Management System (IT connectivity between each elevator machine room and Bldg. 846 Comm Room)
- » Review Life Safety plans to determine if elevator lobbies are within egress area of refuge and provide infrastructure for communication means if applicable
- » All elevator cabs will be equipped with CCTV cameras (either existing camera to be replaced or new provided)

II PROJECT TASKS

TASK 1 EXISTING CONDITION DOCUMENTATION

The intent of this task is to develop the baseline documentation necessary to properly establish, design, model, and document the Project. Specific task breakdowns as follows:

Task 1.1 Project Kick-Off

The Consultant will participate in one (1) kickoff meeting, attended by members of the Consultant’s team noted below, CMAR Representative (if applicable), and Airport staff that are well versed on this project and able to provide the necessary information to the team. The workshop will define, among others, the below items. For purpose of proposal development, the meeting is assumed to be one (1) hour.

- » Project goals and client expectations
- » Describe the methods by which the project will be performed
- » Discuss budget and funding sources
- » Discuss current condition of systems and spaces in question (2021 Elevator Assessment Report)
- » Understand other ongoing work that may impact the Project
 - o Concourse B Expansion, Switchgear NPDS Replacement, Central Energy Plant Modifications, Switchgear Replacement Ph 2, etc.
- » Discuss design schedule
- » Discuss preliminary construction schedule

The following disciplines/individuals will be present on-site from the Consultant team:

- | | |
|--|-----------------------|
| » Project Manager | » Electrical Engineer |
| » Architect | » Elevator Consultant |
| » Mechanical / Plumbing / Fire Protection Engineer | |

The following disciplines/individuals will be present remotely via ZOOM from the Consultant team:

- » Low Voltage Engineer

The Consultant will develop and distribute meeting agenda, minutes and sign-in sheet. It is assumed meeting will be within ten (10) working days of project NTP.

Task 1.2 Data Collection and Review of As-Built Conditions

The Airport will provide the Consultant with all available information pertinent to the design. It is anticipated that the following information will be provided by Airport for review:

The Consultant will review all provided information and will forward any questions or comments to the Airport for response and additional information. This review will inform the focus of the on-site walkthrough of Task 1.3.

Task 1.3 On-Site Walkthrough

The Consultant will conduct an in-person walkthrough for all visible and readily accessible areas to be included as part of this project including elevator shafts, pits, machine rooms to inspect condition of elevator equipment and associated elevator components. The Airport will provide access to all areas associated with the Project to ensure a comprehensive walkthrough. This task will be completed at same site trip as Task 1.1.

The following disciplines/individuals will be present from the Consultant team:

- » Architect
- » Mechanical / Plumbing / Fire Protection Engineer
- » Electrical Engineer
- » Elevator Consultant

The walkthrough will use the data received in Task 1.2 as the basis for the verification of existing documentation to the extent possible.

Task 1.4 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, invoicing, and control for all aspects of the team’s efforts including assembly and coordination of all documentation. The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project.

TASK 2 PHASE 3A: 60% CONSTRUCTION DOCUMENTS

Performance of this Task shall refine the design and establish the scope, relationships, forms, size, and appearance of the project through plans, sections, elevations, details, and outline specifications. Specific task breakdowns are as follows:

Task 2.1 60% Construction Document Development

Consultant shall prepare drawings, technical specifications, calculations, design report as necessary to effectively identify, evaluate, and resolve specific elements of the project for a technically sound and economically complete project. Included will be documentation relative to the following disciplines.

Task 2.1.1 Architectural Design Development

60% CD development level documentation of the elevator cab finishes, elevator lobby functionality features (signal fixtures, hall stations, etc.) and related plans, sections, and details for the Project. Life safety elements of the Project will be accounted for and addressed.

Task 2.1.2 Structural Design Development

60% CD development level documentation of the elevator sump pit modification to include a sump well to support the renovation.

- Task 2.1.3 Mechanical Design Development
60% CD development level documentation of heating, ventilation, air conditioning and building automation system.
- Task 2.1.4 Plumbing Design Development
60% CD development level documentation of elevator sump pit / sump well drainage system.
- Task 2.1.5 Fire Protection Design Development
60% CD development level documentation of elevator shaft and sump pit sprinkler system as applicable.
- Task 2.1.6 Electrical Design Development
60% CD development level documentation of power service, lighting (including levels in pit), and fire alarm systems.
- Task 2.1.7 Low-Voltage/Security Design Development
60% CD development level documentation of security (access control) and CCTV.
- Task 2.1.8 Elevator Equipment Development
60% CD development level documentation of elevator specifications / documents.

Task 2.2 Federal Agency Coordination

The Consultant understands that the current maintenance agreement is with Kone. Kone hires an inspection firm to complete annual inspections.

The Consultant shall conduct up to two (2) meetings with the Kone Maintenance inspection firm to discuss non-compliant elements within the elevator machine rooms for elevators 1 thru 6 and 7 thru 12, how to address access to roof through the elevator machine room, and determine how to address non-elevator related equipment located within the Elevator Machine room.

- » Elevator Machine rooms for Elevators 1 through 6 and 7 through 12:
 - CCTV head-end equipment and associated infrastructure
 - Access to roof
- » Elevator Machine Room for Elevator #15:
 - CO2 line and fire alarm monitor module along with associated infrastructure for an exterior mounted fire phone

The following disciplines/individuals will be present from the Consultant team via ZOOM or another virtual program:

- » Project Manager
- » Architect
- » Electrical Engineer

- » Mechanical / Plumbing / Fire Protection Engineer
- » Low-Voltage System Engineer
- » Elevator Consultant

The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet. It is assumed meeting will be within ten (10) working days after Task 1.1 Meeting.

Task 2.3 Design Coordination Meetings (OAC Meetings)

The Consultant shall attend up to two (2) coordination meetings via ZOOM or another virtual program during this stage of document preparation. For purpose of proposal development, each meeting is assumed to be one (1) hour.

The following disciplines/individuals will be present from the Consultant team at each meeting:

- » Project Manager
- » Architect
- » Mechanical / Plumbing / Fire Protection Engineer
- » Electrical Engineer
- » Low-Voltage System Engineer
- » Elevator Consultant

The intent of the meetings will be to resolve any issues impeding the furthering of the construction documents.

The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet.

Task 2.4 Rough Order of Magnitude (ROM) Opinion of Probable Construction Cost

The Consultant will update a ROM cost estimate based on the level of completion. In providing estimates of probable construction cost, the Airport understands that the Consultant has no control over the cost or availability of labor, equipment, or materials, or over market conditions or a Contractor’s method of pricing, and that the Consultant’s estimates of probable construction costs are made on the basis of the Consultant’s professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant’s estimate of probable construction cost. The estimate will be based on commodity and labor pricing effective the quarter of the review meeting with adjustment for escalation. The estimate will not reflect the abnormal commodity and labor price increases that have occurred as a result of the Covid pandemic from the date of this estimate.

The documents of Task 2.6 will be submitted to DOA and estimator at same time.

Task 2.5 Quality Control Review

The Consultant shall conduct in-house quality control reviews of this construction document stage submittal. The review shall cover the design plans and technical specifications prior to submittal to the Airport. The Quality Control review will be performed as follows:

- » Independent QC Review – An independent Architect/Engineer not actively involved in the Project will review for readability, accuracy, appearance, and acceptability
- » Independent Technical Peer Review – for each discipline associated with the Project an Architect/Engineer not actively involved will review the documents for alignment with design methodologies, calculations, and code compliance
- » Constructability Review – a comprehensive look at the Project to ensure alignment between plans and specifications, phasing impacts, potential conflicts, etc.
- » Discipline Coordination Review – an interdisciplinary review to ensure coordination of elements between disciplines

Task 2.6 Submittal

The Consultant will prepare and submit the following electronic files to the Airport and CMAR (if applicable).

- » Drawings (.pdf)
- » Project Manual (.pdf)
- » ROM (.pdf) - twenty (20) working days after Submittal
- » Color & Finish board

Task 2.7 CMAR Coordination

The Consultant will review CMAR constructability report and estimate (if completed at this stage) and respond to any RFI's, constructability comments, etc. It is anticipated that CMAR report will be provided within twenty (20) working days of 60% CD deliverable to maintain project schedule. Airport approved CMAR comments will be incorporated within the documents in Task 3.1.

This effort will be completed after the CMAR report submittal and prior to the review meeting.

Task 2.8 60% Construction Document Review Meeting

The Consultant shall participate in one (1) meeting to review the phase submittal. Review meeting anticipated to be within ten (10) working days of CMAR report submittal to allow for cost reconciliation if needed. Task included reviewing CMAR comments with CMAR.

The following disciplines/individuals will be present from the Consultant team on-site:

- » Project Manager

- » Architect
- » Mechanical / Plumbing / Fire Protection Engineer
- » Electrical Engineer
- » Low-Voltage System Engineer
- » Elevator Consultant

The following disciplines/individuals will be present from the Consultant team via ZOOM or another virtual program:

- » Low-Voltage System Engineer

The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet.

Within two (2) weeks of the meeting, the Airport will provide any additional written comments to the Consultant that may affect the direction of the project.

Task 2.9 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the team’s efforts including assembly and coordination of all documentation. The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project

TASK 3 PHASE 3C: 100% CONSTRUCTION DOCUMENTS

Task 3.1 Prior Phase Submittal Comment Incorporation

The Consultant shall review all written comments received from (the Airport) regarding Task 2.6 Submittal, comments from Task 2.8 review meeting minutes, and Task 2.7 CMAR comments and incorporate applicable comments into plans and specifications during this construction document phase.

Task 3.2 Code and Permitting with AHJs

The Consultant shall prepare a preliminary determination of jurisdictional authority requirements for Building Code, Fire Protection and Life Safety. The Consultant shall conduct up one (1) virtual meeting with PZV and the DOA to review code requirements. Impacts on project scope and strategies to accommodate requirements will be defined.

It is assumed meeting will be within ten (10) working days after Task 2.8 Meeting. The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet.

Task 3.3 100% Construction Document Development

Consultant shall prepare final drawings, technical specifications, calculations, updated design report, necessary to effectively identify, evaluate, and resolve specific elements of the project for a technically sound and economically complete project. Included will be documentation relative to the following disciplines:

Task 3.3.1 Architectural Construction Documents

Construction Documents of the elevator cab finishes, elevator lobby functionality features (signal fixtures, hall stations, etc.) and related plans, sections, and details for the Project. Life safety elements of the Project will be accounted for and addressed.

Task 3.3.2 Structural Construction Documents

Construction Documents of the elevator sump pit modification to include a sump well to support the renovation.

Task 3.3.3 Mechanical HVAC Construction Documents

Construction Documents of heating, ventilation, air conditioning and building automation system.

Task 3.3.4 Plumbing Construction Documents

Construction Documents of sump pit / sump well drainage system.

Task 3.3.5 Fire Protection Construction Documents

Construction Documents of elevator shaft and sump pit sprinkler systems as applicable.

Task 3.3.6 Electrical Construction Documents

Construction Documents of power service, lighting (including lighting levels), and fire alarm systems.

Task 3.3.7 Security Construction Documents

Construction Documents of security system, closed-circuit television (CCTV) system and relative control console, communication, and premise distribution systems.

Task 3.3.8 Elevator Equipment Development

60% CD development level documentation of elevator specifications / documents.

Task 3.4 Design Coordination Meetings (OAC Meetings)

The Consultant shall attend up to two (2) coordination meeting via ZOOM or another virtual program during this stage of document preparation. For purpose of proposal development, each meeting is assumed to be one (1) hour.

The following disciplines/individuals will be present from the Consultant team:

» Project Manager

- » Architect
- » Mechanical / Plumbing / Fire Protection Engineer
- » Electrical Engineer
- » Low-Voltage System Engineer
- » Elevator Consultant

The intent of the meetings will be to resolve any issues impeding the furthering of the construction documents.

The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet.

Task 3.5 Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs

The Consultant will update a ROM cost estimate based on the level of completion. In providing estimates of probable construction cost, the Airport understands that the Consultant has no control over the cost or availability of labor, equipment, or materials, or over market conditions or a Contractor’s method of pricing, and that the Consultant’s estimates of probable construction costs are made on the basis of the Consultant’s professional judgement and experience. The Consultant makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from the Consultant’s estimate of probable construction cost. The estimate will be based on commodity and labor pricing effective the quarter of the review meeting with adjustment for escalation.

The documents of Task 3.7 will be submitted to DOA and estimator at same time.

Task 3.6 Quality Control Review

The Consultant shall conduct in-house quality control reviews of this construction document stage submittal. The review shall cover the design plans and technical specifications prior to submittal to the Airport. The Quality Control review will be performed as follows:

- » Independent QC Review – An independent Architect/Engineer not actively involved in the Project will review for readability, accuracy, appearance and acceptability
- » Independent Technical Peer Review – for each discipline associated with the Project an Architect/Engineer not actively involved will review the documents for alignment with design methodologies, calculations, and code compliance
- » Constructability Review – a comprehensive look at the Project to ensure alignment between plans and specifications, phasing impacts, potential conflicts, etc.
- » Discipline Coordination Review – an interdisciplinary review to ensure coordination of elements between disciplines

Task 3.7 Submittal

The Consultant will prepare and submit the following electronic files to the Airport

- » Drawings (.pdf)
- » Project Manual (.pdf)
- » ROM - twenty (20) working days after Submittal

Task 3.8 CMAR Coordination

The Consultant will review CMAR constructability report and estimate (if complete at this stage) and respond to any RFI's, constructability comments, etc. It is anticipated that CMAR report will be provided within twenty (20) working days of 100% CD deliverable to maintain project schedule. Airport approved CMAR comments will be incorporated within the documents in Task 3.10.

This effort will be completed after the CMAR report submittal and prior to the review meeting.

Task 3.9 100% Construction Document Review Meeting

The Consultant shall participate in one (1) meeting to review the phase submittal. Review meeting anticipated to be within ten (10) working days of CMAR report submittal to allow for cost reconciliation if needed. Task included reviewing CMAR comments with CMAR

The following disciplines/individuals will be present from the Consultant team on-site:

- » Project Manager
- » Architect
- » Mechanical / Plumbing / Fire Protection Engineer
- » Electrical Engineer
- » Low-Voltage System Engineer
- » Elevator Consultant

The following disciplines/individuals will be present from the Consultant team via ZOOM or another virtual program:

- » Low Voltage Engineer

The Consultant will develop and distribute meeting Agenda, Minutes and Sign-In Sheet.

Task 3.10 Updated 100% Construction Document & Permitting Submittal

The Consultant will update the 100% Construction Documents based on constructability report / reconciliation between CMAR and Design Team and submit documents to DOA. Updated submittal will be used for CMAR bidding and permitting. Permitting documents will be signed and sealed.

Task 3.11 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the team’s efforts including assembly and coordination of all documentation. The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project

TASK 4 PHASE 4: BIDDING AND AWARD OF CONTRACT SERVICES

Following the completion of the construction document phase, these efforts will occur during the process of bidding and permitting. Specific tasks are as follows:

Task 4.1 CMAR Inquiries/Clarifications and Addenda

The Consultant will respond to CMAR questions, clarifications, RFIs and substitutions from bidders and will issue addenda to clarify and modify the project. All addenda will be approved by the Client prior to being issued.

Task 4.2 CMAR GMP Review and Recommendation

The Consultant shall review the CMAR GMP and provide comments and / or recommendation of acceptance. Review is limited to initial GMP review and (1) revision review.

Task 4.3 Permitting Clarifications and Addenda

The Consultant will respond to questions, clarifications, and code considerations from permitting officials; and issue addenda as necessary.

Task 4.4 Conformed Documents

The Consultant shall update construction documents to include all required modifications indicated during the bidding and permitting processes. This conformed set of documents will be provided to the contractor and the airport as the baseline for construction activities.

Task 4.5 Project Management and Project Coordination

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the team’s efforts including assembly and coordination of all documentation. The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project.

III MEETINGS AND PRESENTATIONS

The following meetings and presentations will be attended as part of this proposal:

Task	Presentation / Meeting / Site Visit	Total Meetings	Attendance In-Person	Remote Attendance
1.1	Project Kick-Off	1	X	X
1.3	On-site Walkthrough	1	X	-

SCOPE OF WORK

2.2	Federal Agency Coordination	2	-	X
2.3	Design Coordination Meetings (OAC Meetings)	2	-	X
2.8	60% Construction Document Review Meeting	1	X	X
3.2	Code and Permitting Research with AHJs	1	-	X
3.4	Design Coordination Meetings (OAC Meetings)	2	-	X
3.9	100% Construction Document Review Meeting	1	X	X

IV DELIVERABLES

The following deliverables will be submitted as part of this proposal:

Task #	Title	Information Included	Format
1.1, 2.2, 2.3, 2.8, 3.2, 3.4, 3.9	Meeting Agenda/Minutes/Sign-in sheet	Record of Meetings	.pdf
2.6	60% Construction Document	Drawings, Project Manual, and ROM	.pdf
2.7	CMAR Coordination	60% CD CMAR Constructability Report responses	TBD
3.7	100% Construction Document	Drawings, Project Manual, and ROM	.pdf
3.8	CMAR Coordination	100% CD CMAR Constructability Report responses	TBD
3.10	Updated 100% Construction Document & Permitting	Drawings, Project Manual, and ROM	.pdf
4.1	CMAR Inquires/ Clarifications and Addenda	Bidders RFI responses and addenda	.pdf
4.2	CMAR GMP Review and Recommendation	Recommendation	TBD
4.3	Permitting Clarifications and Addenda	Permitting comment responses and addenda	.pdf
4.4	Conformed Documents	Drawings, Project Manual	.pdf

V PROPOSED PROJECT SCHEDULE

See Attachment A.

VI ASSUMPTIONS AND EXCLUSIONS

The following assumptions have been made for this Scope of Work:

- » Changes to the project design schedule due to circumstances outside of Consultant’s control may require changes in the Consultant’s efforts and require adjustments to the compensation indicated in this proposal.
- » Task 1.1 & Task 1.3 will be completed at the same time.
- » The Project delivery method will be CMAR.
- » Cost estimate in CSI format will be acceptable by DOA. DOA shall notify A/E at kick-off meeting if another format is required.
- » CMAR will provide constructability report within time frame noted.
- » Reuse existing Airport signage

- » Structural, Mechanical, Plumbing, Fire Protection efforts based on Elevators staying as machine room elevators and that passenger traction elevators traveling cables / hoist belts are non-combustible.

The following items are excluded from this Scope of Work unless otherwise noted:

- » Renderings
- » Phase 5: Construction Administration Services
- » RS&H will only perform services/work related in any way to PFAS chemicals or substances possibly containing PFAS chemicals (including but not limited to sampling, handling and remediating) to the extent the Palm Beach County Department of Airports specifically directs, in writing, RS&H to perform such services/work, and RS&H shall not be liable for the nonperformance of such services/work.

VII PROFESSIONAL SERVICES FEE AND FEE TYPE

The Consultant will provide the above referenced services for a Fixed Lump Sum Fee and a Maximum Not-to-Exceed Fee as shown below. See Attachment B for a breakdown of costs.

Lump Sum	=	\$ 532,306.76
Maximum Not-to-Exceed	=	\$ <u>7,914.00</u>
Total Project Fee	=	\$ 540,220.76

Should scope items/activities/efforts/durations be modified at the request of the Airport or need to be adjusted based on construction scheduling, the Consultant’s Design Team will need to modify the fee to accommodate the changes. Such changes will be compensated through an amendment (through Additional Services requested by the Consultant) to the Task Order or similar vehicle. Effort, fee, and schedule adjustments resulting from a change in scope will be assessed and approved by the Airport prior to the execution of the change.

ATTACHMENT A: SCHEDULE

Task Name	Calendar Days	Duration	Start	Finish
Design Schedule (Proposal)		175 days	4/25/23	12/25/23
Existing Conditions Documentation		20 days	4/25/23	5/22/23
Phase NTP	1 cal days	0 days	4/25/23	4/25/23
1.1/1.3 - Project Kickoff Meeting / Site Inspection	1 cal days	0 days	5/8/23	5/8/23
1.4 - Development of Revit Model	14 cal days	10 days	5/9/23	5/22/23
Phase 3A: 60% Construction Documents		82 days	4/25/23	8/16/23
2.1 - Development Period	56 cal days	40 days	4/25/23	6/19/23
2.2 - Federal Agency Coordination	1 cal days	0 days	5/22/23	5/22/23
2.5 - Quality Control Process		11 days	6/19/23	7/4/23
2.6 - PM to compile and send Submittal to DOA	1 cal days	1 day	7/5/23	7/5/23
2.4 - Rough Order of Magnitude (ROM) Opinion of Probable Construction Cost		15 days	7/6/23	7/26/23
2.7 - CMAR Constructibility and Estimate Report		25 days	7/6/23	8/9/23
2.8 - Review Meeting	1 cal days	0 days	8/16/23	8/16/23
Phase 3C: 100% Construction Documents		93 days	8/17/23	12/25/23
Phase NTP	1 cal days	1 day	8/17/23	8/17/23
3.1 - Prior Phase incorporation	7 cal days	5 days	8/18/23	8/24/23
3.2 - Code and Permitting wiht AHJ	1 cal days	0 days	8/30/23	8/30/23
3.3 - Development Period	56 cal days	40 days	8/18/23	10/12/23
3.6 -Quality Control Process		11 days	10/12/23	10/27/23
3.7 - PM to compile and send Submittal to DOA	1 cal days	1 day	10/30/23	10/30/23
3.8 - CMAR Constructibility and Estimate Report		25 days	10/31/23	12/4/23
3.9 - Review Meeting	1 cal days	0 days	12/11/23	12/11/23
3.10 - Updated 100% CD & Permitting Submittal	14 cal days	10 days	12/12/23	12/25/23

ATTACHMENT B: FEE BREAKDOWN

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS
Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services

RS&H, INC.
Elevator Modernization: Design and Bidding & Award Services

Consultant				
Task	Description	Hours	Fee (Lump Sum)	Fee (NTE)
	1 Existing Condition Documentation	92	\$ 14,972.82	\$ -
	2 Phase 3A: 60% Construction Documents	849	\$ 114,936.17	\$ -
	3 Phase 3C: 100% Construction Documents	790	\$ 106,669.92	\$ -
	4 Phase 4: Bidding & Awards of Contract Services	244	\$ 38,901.85	\$ -
Subtotal RS&H Labor Hours		1,975		
Subtotal RS&H Labor Fee			\$ 275,480.76	\$ -
Subconsultants				
	Quantum Electrical Engineering		\$ 84,427.00	\$ -
	Lerch Bates		\$ 108,199.00	\$ -
	Connico, LLC		\$ 64,200.00	\$ -
Subtotal Subconsultant Fee			\$ 256,826.00	\$ -
Expenses				
	RS&H			
	Travel		\$ -	\$ 4,914.00
	Other		\$ -	\$ 3,000.00
	Subconsultants			
	Quantum Electrical Engineering		\$ -	\$ -
	Lerch Bates		\$ -	\$ -
	Connico, LLC		\$ -	\$ -
Subtotal Expenses			\$ -	\$ 7,914.00
Sub Total Project Fee			\$ 532,306.76	\$ 7,914.00
Total Project Fee			\$	540,220.76

Elevator Modernization: Design and Bidding & Award Services			HOURS										HOURS	TOTAL COST (\$)
			Principal \$349.99	Project Manager \$287.02	Senior Architect \$245.39	Architect \$125.87	Intern Architect \$85.16	Senior Engineer \$246.63	Engineer \$161.55	Intern Engineer \$96.47	Senior Technician / Designer \$117.33	Technician / Designer \$111.75	Administrative Assistant \$60.37	
Task 1 Existing Condition Documentation														
1.1		Project Kick-off												
		PM		3									6	9 \$ 1,223.28
		Architecture				1								1 \$ 125.87
		Mechanical / Plumbing / Fire Protection						1						1 \$ 246.63
		Low Voltage									2			2 \$ 234.66
1.2		Data Collection & Review of As-Built Conditions												
		PM		1										1 \$ 287.02
		Architecture				1	1							2 \$ 211.03
		Structural							1					1 \$ 151.55
		Mechanical						1						1 \$ 246.63
		Plumbing							1					1 \$ 151.55
		Fire Protection						1						1 \$ 246.63
		Low Voltage									2			2 \$ 234.66
1.3		On-Site Walkthrough												
		PM												- \$ -
		Architecture				31								31 \$ 3,901.97
		Mechanical						7						7 \$ 1,726.41
		Plumbing						7						7 \$ 1,726.41
		Fire Protection						8						8 \$ 1,973.04
1.4		Project Management												
		PM	2	3									12	17 \$ 2,285.48
		Task Total	2	7	-	33	1	25	2	-	4	-	18	92 \$ 14,972.82
Task 2 Phase 3A: 60% Construction Documents														
2.1		60% Construction Document Development												
		PM		26										26 \$ 7,462.52
		Architecture			9	25	53							87 \$ 9,868.74
		Structural												- \$ -
		Elevator #13, #15, #16, #17, #20						9	20	44				73 \$ 9,495.35
		Elevator #1 thru 121 Machine Room Mods						3	8	17				28 \$ 3,592.28
		Mechanical						7		88				95 \$ 10,215.77
		Plumbing												- \$ -
		Elevator #13, #15, #16, #17, #20, #27						11	49	105				165 \$ 20,268.23
		Fire Protection												- \$ -
		Elevator #13, #15, #16, #17						8	39					47 \$ 7,883.49
		Low Voltage									84	113		197 \$ 22,483.47
2.2		Federal/Agency Coordination												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						2						2 \$ 493.26
		Low Voltage									4			4 \$ 469.32
2.3		Design Coordination Meetings (OAC Meetings)												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						2						2 \$ 493.26
		Low Voltage									4			4 \$ 469.32

Elevator Modernization: Design and Bidding & Award Services			HOURS										HOURS	TOTAL COST (\$)
			Principal \$349.99	Project Manager \$287.02	Senior Architect \$245.39	Architect \$125.87	Intern Architect \$85.16	Senior Engineer \$246.63	Engineer \$151.55	Intern Engineer \$96.47	Senior Technician / Designer \$117.33	Technician / Designer \$111.75	Administrative Assistant \$60.37	
2.4		Rough Order of Magnitude (ROM) Opinion of Probable												
		PM		1										1 \$ 287.02
		Architecture				1								1 \$ 125.87
		Structural						1						
		Mechanical						1						1 \$ 246.63
		Plumbing						1						1 \$ 246.63
		Fire Protection						1						1 \$ 246.63
		Low Voltage									2			2 \$ 234.66
2.5		Quality Control Review												
		PM		3										3 \$ 861.06
		Architecture			1	3	5							9 \$ 1,048.80
		Structural						1	2	4				7 \$ 935.61
		Mechanical						1	1	1				3 \$ 494.65
		Plumbing						1	1	1				3 \$ 494.65
		Fire Protection						1	2					3 \$ 549.73
		Low Voltage									7			7 \$ 821.31
2.6		Submittal												
		PM		3										3 \$ 861.06
		Architecture				5								5 \$ 629.35
2.7		CMAR Coordination												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						2						2 \$ 493.26
		Low Voltage									4			4 \$ 469.32
2.8		60% Construction Document Review Meeting												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection												- \$ -
		Low Voltage									2			2 \$ 234.66
2.9		Project Management												
		PM	4	5									12	21 \$ 3,559.50
		Task Total	8	64	10	112	60	118	126	260	115	113	48	849 \$ 114,936.17
Task 3 Phase 3C: 100% Construction Documents														
3.1		Prior Phase Submittal Comment Incorporation												
		PM												- \$ -
		Architecture				1	1							2 \$ 211.03
		Structural												
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						1						1 \$ 246.63
		Low Voltage									4			4 \$ 469.32
3.2		Code and Permitting with AHJ												
		PM		1										1 \$ 287.02
		Architecture				1								1 \$ 125.87
		Mechanical						1						1 \$ 246.63
		Plumbing						1						1 \$ 246.63
		Fire Protection						1						1 \$ 246.63
		Low Voltage									2			2 \$ 234.66

Elevator Modernization: Design and Bidding & Award Services			HOURS										HOURS	TOTAL COST (\$)
			Principal \$349.99	Project Manager \$287.02	Senior Architect \$245.39	Architect \$125.87	Intern Architect \$85.16	Senior Engineer \$246.63	Engineer \$161.55	Intern Engineer \$96.47	Senior Technician / Designer \$117.33	Technician / Designer \$111.75	Administrative Assistant \$60.37	
3.3		100% Construction Document Development												
		PM		16										16 \$ 4,592.32
		Architecture			9	51	106							166 \$ 17,654.84
		Structural												- \$ -
		Elevator #13, #15, #16, #17, #20						4	20	44				68 \$ 8,262.20
		Elevator #1 thru 121 Machine Room Mods						3	8	17				28 \$ 3,592.28
		Mechanical						7	11	44				62 \$ 7,638.14
		Plumbing												- \$ -
		Elevator #13, #15, #16, #17, #20, #27						6	24	53				83 \$ 10,229.89
		Fire Protection												- \$ -
		Elevator #13, #15, #16, #17						8	39					47 \$ 7,883.49
		Low Voltage									90	57		147 \$ 16,929.45
3.4		Design Coordination Meetings (OAC Meetings)												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						2						2 \$ 493.26
		Low Voltage									4			4 \$ 469.32
3.5		Rough Order of Magnitude (ROM) Opinion of Probable Cost												
		PM		1										1 \$ 287.02
		Architecture				1								1 \$ 125.87
		Structural						1						1 \$ 246.63
		Mechanical						1						1 \$ 246.63
		Plumbing						1						1 \$ 246.63
		Fire Protection						1						1 \$ 246.63
		Low Voltage									2			2 \$ 234.66
3.6		Quality Control Review												
		PM		3										3 \$ 861.06
		Architecture			1	3	5							9 \$ 1,048.80
		Structural						1	2	4				7 \$ 935.61
		Mechanical						1	1	1				3 \$ 494.65
		Plumbing						1	1	1				3 \$ 494.65
		Fire Protection						1	2					3 \$ 549.73
		Low Voltage									7			7 \$ 821.31
3.7		Submittal												
		PM		3										3 \$ 861.06
		Architecture				5								5 \$ 629.35
3.8		CMAR Coordination												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection						2						2 \$ 493.26
		Low Voltage									4			4 \$ 469.32
3.9		100% Construction Document Review Meeting												
		PM		3										3 \$ 861.06
		Architecture				3								3 \$ 377.61
		Mechanical						2						2 \$ 493.26
		Plumbing						2						2 \$ 493.26
		Fire Protection												- \$ -
		Low Voltage									2			2 \$ 234.66

Elevator Modernization: Design and Bidding & Award Services			HOURS										HOURS	TOTAL COST (\$)
			Principal \$349.99	Project Manager \$287.02	Senior Architect \$245.39	Architect \$125.87	Intern Architect \$85.16	Senior Engineer \$246.63	Engineer \$151.55	Intern Engineer \$98.47	Senior Technician / Designer \$117.33	Technician / Designer \$111.75	Administrative Assistant \$60.37	
3.10		Updated 100% Construction Documents and Permitting												
		PM		5										5 \$ 1,435.10
		Architecture			2	5	11							18 \$ 2,056.89
		Structural							1	2				3 \$ 344.49
		Mechanical						2		4				6 \$ 879.14
		Plumbing						2		4				6 \$ 879.14
		Fire Protection						2	5					7 \$ 1,251.01
		Low Voltage									4	6		10 \$ 1,139.82
3.11		Project Management												
		PM		5										5 \$ 1,435.10
		Task Total	-	43	12	76	123	66	114	174	119	63	-	790 \$ 106,669.92
Task 4 Phase 4: Bidding & Awards of Contract Services														
4.1		CMAR Inquiries/Clarifications and Addenda												
		PM		5										5 \$ 1,435.10
		Architecture			2	10	21							33 \$ 3,537.84
		Structural								4				4 \$ 606.20
		Mechanical						1	1	4				6 \$ 784.06
		Plumbing						1	2	4				7 \$ 935.61
		Fire Protection						2	5					7 \$ 1,251.01
		Low Voltage									15			15 \$ 1,759.95
4.2		CMAR GMP Review and Recommendation												
		PM		1										1 \$ 287.02
		Architecture			1									1 \$ 245.39
		Structural						1						1 \$ 246.63
		Mechanical						1						1 \$ 246.63
		Plumbing						1						1 \$ 246.63
		Fire Protection						1						1 \$ 246.63
		Low Voltage									3			3 \$ 351.99
4.3		Permitting Clarifications and Addenda												
		PM		5										5 \$ 1,435.10
		Architecture			2	8	11							21 \$ 2,434.50
		Structural						2	8					10 \$ 1,705.66
		Mechanical						2	2	7				11 \$ 1,471.65
		Plumbing						2	4	7				13 \$ 1,774.75
		Fire Protection						2	5					7 \$ 1,251.01
		Low Voltage									15			15 \$ 1,759.95
4.4		Conformed Documents												
		PM		3										3 \$ 861.06
		Architecture			2		5							7 \$ 916.58
		Structural						2		4				6 \$ 879.14
		Mechanical						2		4				6 \$ 879.14
		Plumbing						2		4				6 \$ 879.14
		Fire Protection						2	5					7 \$ 1,251.01
		Low Voltage									15			15 \$ 1,759.95
4.5		Project Management and Project Coordination												
		PM		26										26 \$ 7,462.52
		Task Total	-	40	7	18	37	24	36	34	48	-	-	244 \$ 38,901.85
TOTAL FOR ALL TASKS (RS&H)			8	147	29	206	220	208	276	468	282	176	48	1,975 \$ 275,480.76

Elevator Modernization: Design and Bidding & Award Services

Sub Consultant - Labor Effort by Major Task Item (Lump Sum)						
		Task 1	Task 2	Task 3	Task 4	
Quantum Electrical Engineerin	Electrical, Fire Alarm	\$ 1,298.00	\$ 46,748.00	\$ 30,675.00	\$ 5,706.00	\$ 84,427.00
Lerch Bates	Elevator Consultant	\$ 5,823.00	\$ 55,929.00	\$ 31,175.00	\$ 15,272.00	\$ 108,199.00
Connico, LLC	Cost Estimatin	\$ -	\$ 34,700.00	\$ 29,500.00	\$ -	\$ 64,200.00
TOTAL SUBCONSULTANTS						\$ 256,826.00

Elevator Modernization: Design and Bidding & Award Services

EXPENSES										
TRAVEL					Airfare	Car	Lodging	Per Diem		
Task	Description	# Trips	# People	# Days	\$600	\$80	\$200	\$93		
1.1 / 1.3	Project Kick-off / Site Inspection				\$0	\$640	\$1,000	\$744		\$2,384.00
2.8	60% Construction Document Review Meeting				\$0	\$400	\$400	\$465		\$1,265.00
3.9	100% Construction Document Review Meeting				\$0	\$400	\$400	\$465		\$1,265.00
								SUBTOTAL TRAVEL		\$4,914.00
	OTHER EXPENSES									
	Parking				\$1,000					\$1,000.00
	Badging				\$1,000					\$1,000.00
	Others				\$1,000					\$1,000.00
								SUBTOTAL OTHER EXPENSES		\$3,000.00
TOTAL EXPENSES										\$7,914.00

ATTACHMENT C: SUBCONSULTANT PROPOSALS



2594 N. Mount Juliet Road
Mount Juliet, TN 37122

February 24, 2023

(615) 994-1980
www.connico.com

Mr. Aaron Jackson
RS&H
10748 Deerwood Park Blvd South,
Jacksonville, FL 32256

RE: PBI Elevator Modernization
Palm Beach International Airport
West Palm Beach, Florida

Dear Mr. Jackson:

We are pleased to present our revised fee proposal for the referenced project.

We appreciate the opportunity to team with you on this project. Should you have any questions or need additional information, please contact us at your convenience.

Sincerely,

The Connico Team

A handwritten signature in black ink, appearing to read "Charl J. Nesor". The signature is stylized with a large, sweeping "C" and "N".

Charl J. Nesor, MRICS, CCP
Director
cjneser@connico.com

Connico File No. 4312.23.22



SCOPE OF WORK AND FEE

Project Scope

The scope for the work shall include the required elements, systems and equipment typical of an Elevator Modernization project including as guided by the 2021 Elevator Assessment Report, and the following items:

- Infrastructure to support Elevator Management System (IT connectivity between each elevator machine room and Bldg. 846 Comm Room)
- Modification to Elevator Machine Room for Elevators 1 through 6, 7 through 12, and 15 to correct non-code compliant elements.
 - Elevator Machine rooms for Elevators 1 through 6 and 7 through 12:
 - CCTV head-end equipment and associated infrastructure
 - Access to roof
 - Elevator Machine Room for Elevator #15:
 - CO2 line and fire alarm monitor module along with associated infrastructure for an exterior mounted fire phone
- Repair of water leak at elevators 21 through 24 glazing
- Fire Protection / Fire Alarm
 - Sprinklers added to Elevator 13, 15, 16, 17
 - Smoke and/or Heat Detectors added to Elevator 13, 15, 16, 17
- Structural
 - New sump wells in elevator pits 13, 15, 16, 17 & 20.
 - ASME A17.1 Section 2.2.2.6 states that where sump pumps in elevator pits are to provided, the sump pump must be covered and the cover level with the pit floor (ie a sump well must be provided).
- Plumbing
 - New sump pumps in elevators 13, 15, 16, 17, 20, & 27
 - Note: New sump pump in elevator pits 13, 15, 16, 17, 20, & 27 assumes AHJ will accept design to include pump with oil detection alarm and elevator 16 & 17 can drain to storm as there is no sanitary nearby.
- Low Voltage
 - Infrastructure to support Elevator Management System (IT connectivity between each elevator machine room and Bldg. 846 Comm Room)
- All elevator cabs will be equipped with CCTV cameras (either existing camera to be replaced or new provided)

The construction budget has been preliminarily established at between \$8 to \$9 Million.



SCOPE OF WORK AND FEE

Basic Scope of Services

Connico proposes to provide the following services:

- ↓ Task 2.7: 60% Construction Document Estimate
- ~~↓ Task 2.7: CMAR Estimate Reconciliation 60% CD~~
- ↓ Task 3.5: 100% Construction Document Estimate
- ~~↓ Task 3.8: CMAR Estimate Reconciliation 100% CD~~

Each phase includes an initial scope of work review meeting and a draft estimate review meeting via teleconference. The teleconference meeting is to occur prior to issuing an electronic copy of the final report. A limited site visit for the purposes of providing an opinion of probable cost is not included. This proposal is for planning, design phase services only; construction phase services are not included.

In providing estimates of probable construction cost the Client understands that Connico has no control over the cost or availability of labor, equipment, or materials, or over market conditions or the Contractor's method of pricing, and that Connico's estimates of probable construction costs are made on the basis of Connico's professional judgment and experience. Connico makes no warranty, express or implied, that the bids or the negotiated cost of the Work will not vary from Connico's estimate of probable construction cost.

Connico will require an electronic version (PDF) of the drawings and specifications, and a copy of any other applicable documentation which applies to the project.

Deliverables

The estimate will be prepared in CSI format to fit the requirements of the Client. The estimate will identify Connico's opinion of probable construction cost of the project based on the documents provided by the Client. Connico is entitled to rely and will rely on the accuracy and completeness of all such documents without undertaking an independent investigation to confirm the same.

Also included within the report shall be the estimate notes. The notes will contain allowances, criteria, and clarifications for the estimate based on Connico's assumptions and verbal information provided by the design team. The notes will also include any other comments about the project that Connico believes are relevant.

Connico will provide an electronic copy of the estimate report.

The draft estimate(s) shall be prepared within ten (10) business days from the date all design information required is received by Connico. The final estimate shall be prepared within five (5) business days after receipt of all draft estimate comments. In the event that supplemental information is furnished to Connico after a task has begun, and such information requires changes to any quantity take-off currently in progress, Connico reserves the right to request additional compensation for any such additional work. No additional time shall be expended on work affected by such supplemental information without the prior written consent of the Client and an agreement having been reached as to the scope and additional fee required.



SCOPE OF WORK AND FEE

Proposed Fees (Basic Scope of Services)

↓ Task 2.7: 60% CD Estimate	\$34,700.00	
↓ Task 2.7: CMAR Estimate Reconciliation 60% CD	\$ 8,000.00	
↓ Task 3.5: 100% CD Estimate	\$29,500.00	
↓ Task 3.8: CMAR Estimate Reconciliation 100% CD	\$ 5,600.00	
Total Proposed Fees (Lump Sum)	\$77,800.00	\$64,200

The proposed fees are based on providing all listed estimates. Should the Client elect to change the scope of services, Connico reserves the right to renegotiate fees.

Proposed fees are based on providing one draft report for review and comment and one final report. Should additional revisions be requested, these shall be considered additional services.

Services not set forth above are specifically excluded from the scope of Connico's services. Connico assumes no responsibility to perform any services not specifically listed herein.

Additional Services

The Basic Scope Services does not include cost management, evaluating or making recommendations regarding substitution of materials, products, or equipment proposed, design alternatives or value engineering building or site systems, reconciliation estimates or services, and meetings not included within the base proposal. Additional Services are not included as part of the Basic Scope of Services and shall be paid for by the Client, in addition to payment for the Basic Scope of Services, at the rates included within the agreement, or as agreed to by the Client and Connico.

Proposal Submitted by:

Charl J. Neser, MRICS, CCP

PALM BEACH INTERNATIONAL
WEST PALM BEACH, FL

MODERNIZATION CONSULTING SERVICES PROPOSAL

FEBRUARY 20, 2023

PREPARED FOR:

Aaron Jackson
PE, LEED AP
Aaron.Jackson@rsandh.com
812.525.7455

RS&H, Inc.
10748 Deerwood Park Blvd. South
Jacksonville, FL 32256

Site Contact:

Aaron Jackson
PE, LEED AP
Aaron.Jackson@rsandh.com
812.525.7455

RS & H Project 1a I-23-PBI-R-030

PREPARED BY:

Frank Williams
Consultant
Frank.Williams@lerchbates.com
954.809.8985

LB Project № 0100044553

I. BASIC VERTICAL TRANSPORTATION CONSULTING SERVICES

Lerch Bates Inc. (Lerch Bates) agrees to provide RS&H, Inc. (Client) with the following consulting services:
Twenty-Five (25) Elevators.

A. Lerch Bates shall to assist in development of construction documents:

1. Task 1.1 - Project Kick off (1 meeting)
2. Task 1.3 – On Site Walk through (1 meeting)
3. Task 2.1 – 60% Construction Document Development
4. Task 2.2 – Federal Agency Coordination (2 meetings)
5. Task 2.3 – Design Coordination Meeting (OAC Meetings/ 2 meetings)
6. Task 2.4 – 60% Construction Document ROM Review
7. Task 2.5 – Quality Control
8. Task 2.6 – Submittals (Preparation/Submission – Electronic)
9. Task 2.7 – CMAR Coordination
10. Task 2.8 – 60% Construction Document Review Meeting (1 meeting)
11. Task 3.2 – Code and Permitting Research with AHJs (1 meeting)
12. Task 3.3 – 100% Construction Document Development
13. Task 3.4 – Design Coordination Meetings (2 meetings)
14. Task 3.5 – 100% Construction Document ROM Review
15. Task 3.6 – Quality Control
16. Task 3.7 – Submittals
17. Task 3.8 – CMAR Coordination
18. Task 3.9 – 100% Construction Document Review Meeting (1 meeting)
19. Task 4.0 – Bidding and Award Services

B. Construction Documents

1. Prepare Division documents including:
 - a. Request for Quotation
 - b. Instruction to Providers
 - c. Provider Pre-qualification Form
 - d. Quotation Form
 - e. Supplemental Conditions
 - f. List of Drawings

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CONSULTING SERVICES PROPOSAL



- g. Summary of Work
 - h. Alternates
 - i. Project Procedures
 - j. Submittals
 - k. Material and Handling
 - l. Final Contract Compliance Review
 - m. Maintenance
 - n. Related Work by General Contractor
2. Prepare a detailed, performance-based equipment specification for the appropriate Division 14 section(s) in the Lerch Bates standard PDF electronic files. Specification will include:
- a. Specific performance criteria relating to quality of equipment, performance times, ride quality, noise and vibration.
 - b. Established level of quality.
 - c. Compliance with accessibility standards.
 - d. Compliance with prevailing Codes directly related to the equipment application selected.
3. Prepare an after installation continuing Preventive Maintenance Agreement in the standard Lerch Bates format.
4. Configure Construction Documents to encourage competitive bidding.

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CONSULTING SERVICES PROPOSAL



II. FEES AND EXPENSES

A. Fee for Basic Services will be \$108,199.00 per the fee schedule for the work listed below:

			HOURS		HOURS	TOTAL COST (\$)
			Principal	Administrative		
			\$232.90	\$83.18		
Contract Hourly Rate						
Task 1	Existing Condition Documentation					
1.1	Project Kick Off				-	\$0
	Elevator Consultant		1		1	\$233
1.3	On-Site Walkthrough				-	\$0
	Elevator Consultant		24		24	\$5,590
Task Total			25	-	25	\$5,823
Task 2	Phase 3A: 60% Construction Documents					
2.1	60% Design Document Preparation				-	\$0
	2.1.8	Elevator Equipment Development			-	\$0
		Lerch Bates Construction Documents Item #1	60	10	70	\$14,806
		Lerch Bates Construction Documents Item #2	60	10	70	\$14,806
		Lerch Bates Construction Documents Item #3	60	10	70	\$14,806
2.2	Federal Agency Coordination				-	\$0
	Elevator Consultant		2		2	\$466
2.3	Design Coordination Meetings (OAC meetings)				-	\$0
	Elevator Consultant		4		4	\$932
2.4	Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs				-	\$0
	Elevator Consultant		4		4	\$932
2.5	Quality Control Review				-	\$0
	Elevator Consultant		12	1	13	\$2,878
2.6	Submittal				-	\$0
	Elevator Consultant		2	1	3	\$549
2.7	CMAR Coordination				-	\$0
	Elevator Consultant		12		12	\$2,795
2.8	60% Construction Document Review Meeting				-	\$0
	Elevator Consultant		12	2	14	\$2,961
Task Total			228	34	262	\$55,929
Task 3	Phase 3C: 100% Construction Documents					
3.2	Code and Permitting with AHJs				-	\$0
	Elevator Consultant		2		2	\$466
3.3	100% Construction Document Preparation				-	\$0
	3.3.8	Elevator Equipment Development			-	\$0
		Lerch Bates Construction Documents Item #1	40	10		
		Lerch Bates Construction Documents Item #2	40	10	50	\$10,148
		Lerch Bates Construction Documents Item #3	40	10	50	\$10,148
3.4	Design Coordination Meeting (OAC Meeting)				-	\$0
	Elevator Consultant		2		2	\$466
3.5	Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs				-	\$0
	Elevator Consultant		4		4	\$932
3.6	Quality Control Review				-	\$0
	Elevator Consultant		12	-	12	\$2,795
3.7	Submittal				-	\$0
	Elevator Consultant		2		2	\$466
3.8	CMAR Coordination				-	\$0
	Elevator Consultant		8		8	\$1,863
3.9	100% Construction Document Review Meeting				-	\$0
	Elevator Consultant		8	2	10	\$2,030
3.10	Update 100% Construction Document and Permit Submittal				-	\$0
	Elevator Consultant		8		8	\$1,863
Task Total			158	32	148	\$31,175
Task 4	Phase 4: Bidding and Award of Contract Services					
4.1	CMAR Inquiries/Clarifications and Addenda				-	\$0
	Elevator Consultant		24	2	26	\$5,756
4.2	CMAR GMP Review and Recommendation				-	\$0
	Elevator Consultant		8	2	10	\$2,030
4.3	Permitting Submittal and Clarifications				-	\$0
	Elevator Consultant		20	2	22	\$4,824
4.4	Conformed Document Preparation				-	\$0
	Elevator Consultant		10	4	14	\$2,662
Task Total			62	10	72	\$15,272
TOTAL FOR ALL TASKS			473	76	507	108,199

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B. Reimbursable Expenses

1. Travel expense, lodging, meals, parking, all mileage charged at standard per mile rates, document reproduction, photographic reproduction, all mailing costs, special document handling, any applicable local service/sales tax, and other authorized expenses are included in the Agreement fee.

III. TERMS AND CONDITIONS

- A. Parties to this Agreement: Lerch Bates Inc. (hereinafter "LB" or "Lerch Bates") shall proceed based upon the terms and conditions of this Proposal ("the Terms" or "Agreement"), including the Basic Services, Compensation, Reimbursable Expenses, and Terms and Conditions herein, to provide such services to Client ("Client") for Client's proposed scope of work ("Project"). Client shall notify Lerch Bates immediately in writing with any changes to the scope of services or other requested changes prior to commencement of services covered by this Agreement.
- B. Standard of Care: Lerch Bates shall perform its services as expeditiously as is consistent with professional care and diligence. Services provided by Lerch Bates in connection with the Project shall be performed in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession practicing at the same time and under similar circumstances.
- C. Documents: All documents furnished by Lerch Bates are Instruments of Service and shall remain the sole property of Lerch Bates. Lerch Bates shall retain all common law, statutory and other reserved rights, including the copyright thereto. LB's Instruments of Service are to be used only for this Project and are not to be modified, distributed, or used for any other project, in whole or in part, except with the written authorization of Lerch Bates. Lerch Bates accepts no liability for any unauthorized use or modification of these documents. Upon execution of this Agreement, Lerch Bates grants a worldwide, perpetual, royalty-free, non-exclusive license to use the Instruments of Service for any and all purposes relating to the construction, maintenance, renovation, or other attendant work of the equipment that is the subject of this Agreement.
- D. Cost Estimates: Opinions of probable cost, if any, shall be based on training and experience. Lerch Bates does not control contractors' costs of labor or materials or other conditions affecting market pricing, and accordingly Lerch Bates does not warrant its estimates, or guarantee that contractors' actual or quoted costs will not vary from LB's opinions of probable costs.
- E. Submittal Review: Lerch Bates review of shop drawings and other submittals shall be for conformance with the general intent of the Lerch Bates documents, and action taken, or comments made by Lerch Bates shall not create or transfer responsibility for the content of such submittals. Responsibility for submittals shall remain with the contractor or the party preparing said submittals.
- F. Review of Pay Applications: Review by Lerch Bates of the contractor's applications for payment, if any, shall constitute Lerch Bates' opinion based on its review of the work in progress, but shall neither be a warranty nor a representation that the contractor has appropriately applied payments for any purpose of the contractor's work.
- G. Construction Observation:
 1. Lerch Bates shall visit the site at intervals appropriate to the state of construction, or as otherwise agreed to in writing by Client and Lerch Bates, in order to observe the progress and quality of the work completed by Project's contractor. Such visits and observations shall not be an exhaustive check or a detailed inspection of any contractor's work but are to allow

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Lerch Bates to become familiar with the work in progress and to determine, in general, if the applicable Project work is proceeding in accordance with the contract documents. Based on this general observation, Lerch Bates shall keep Client informed about the progress of the work and shall advise Client about observed deficiencies in the work.

2. If Client desires more extensive project observation or full-time project representation, Client shall request that such services be provided by Lerch Bates as Additional Services in accordance with the terms of this Agreement.
 3. Lerch Bates shall not supervise, direct, or have control over contractors' work and shall not have any responsibility for construction means, methods, techniques, sequences, or procedures selected by any contractor, nor for any contractor's safety precautions or programs in connection with the work. These rights and responsibilities are solely those of the applicable contractor in accordance with the contract documents.
- H. Services Excluded: Lerch Bates offers a scope of services that is required for a successful project outcome. Such services are not offered on a phased or a-la-carte basis. In the event Client does not authorize all services offered, Client assumes responsibility for interpretation of the Lerch Bates deliverables.
- I. Force Majeure/Matters Outside Parties' Control: Client acknowledges that Lerch Bates, by undertaking this engagement, assumes no obligation nor responsibility to Client or its employees, guests, customers, suppliers, or vendors, nor any other person whatsoever, for prevention or mitigation of property damage, personal or bodily injury, loss detention, or delay caused by accidents, strikes, lockouts, civil or governmental unrest, epidemics or pandemics, natural disasters, and any other cause including those resulting from force majeure.
- J. Consequential Damages: Notwithstanding any other part of this Agreement and to the fullest extent permitted by law, neither Client nor Lerch Bates, their respective employees, agents, or subconsultants, shall be liable to the other Party for any incidental, indirect, or consequential damages arising out of or connected in any way to the Project or this Agreement. This mutual waiver of consequential damages shall include, but is not limited to, loss of use, loss of profit, loss of business, loss of income, loss of reputation, and any other consequential damages that either party may have incurred, whether caused by negligence, breach of contract, express or implied warranty, or any other theory.
- K. Use of Equipment: Except for Lerch Bates' negligence or willful misconduct, Lerch Bates shall have no responsibility for property damage or personal or bodily injury occurring while in, on, or about the equipment which is the subject of this agreement, or for the consequences of such damage or injury.
- L. Code Opinions: Client acknowledges that Lerch Bates' recommendations, interpretations, opinions, and conclusions regarding requirements of applicable codes, ordinances, laws, and regulations shall be based on current versions of said authorities in existence at the time of site review and may not reflect versions existing before or after the date of review.
- M. Maintenance: Client acknowledges that preventive and ongoing maintenance is required on all mechanical and electrical systems to assure safe, proper, and consistent operation of the

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equipment, and that said preventive or other maintenance is and shall remain solely as Client's responsibility.

- N. Client Information: Client is responsible for providing, at its expense, to Lerch Bates such information as may be necessary to facilitate Lerch Bates' services herein; Lerch Bates shall be entitled to rely on all Client-supplied information being current, complete, and accurate regardless of the original source.
- O. Corporate Protection: Lerch Bates' services in connection with the Project shall not subject individual employees, officers, or directors to any personal liability for risks associated with this Project. Notwithstanding anything to the contrary contained herein, the Client agrees that as the Client's sole and exclusive remedy, any claim demand or suit shall be directed and/or asserted only against Lerch Bates Inc., a Colorado corporation, and not against any of Lerch Bates' individual employees, officers, or directors.
- P. Limitation of Liability and Indemnity:
1. Client agrees to limit the liability of Lerch Bates and its employees to Client for any and all claims, losses, costs, and damages of any nature whatsoever arising from Lerch Bates work on the Project, including but not limited to additional services not referred to in this Agreement or other contract, so that the total aggregate liability of Lerch Bates and its employees to Client shall not exceed Lerch Bates total fees for work on the Project or \$100,000, whichever is greater. It is intended that this limitation shall apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law. The parties agree that this Limitation of Liability bears a reasonable and proportional relationship to Lerch Bates's fees for the Project.
 2. Lerch Bates shall not be liable for Client's employees or agents who accompany Lerch Bates while in or on Client's property. Client agrees to indemnify and hold harmless Lerch Bates, its employees, officers, directors, subsidiaries, and consultants from and against any and all claims, demands, losses, damages, costs, or expenses, including attorneys' fees, which result or arise from, or relate to Client, or an agent or employee acting on behalf of Client, accompanying Lerch Bates' employees or consultants at any time during Lerch Bates' onsite activities.
 3. Client agrees to indemnify and hold harmless Lerch Bates, its employees, and its consultants from and against any and all claims, demands, losses, damages, costs, or expenses, including attorneys' fees, which are asserted by any other party, firm, or individual and which are alleged to result from or be related to this Agreement or the services hereunder, and which exceed the sum of \$100,000, or Lerch Bates fee for the services, whichever is greater.
 4. Client agrees to indemnify and hold harmless Lerch Bates, its employees, and its consultants from and against any and all claims, demands, losses, damages, costs, or expenses, including attorneys' fees, which are asserted by any other party, firm, or individual and which are alleged to result from or be related to this Agreement or the services hereunder, and which exceed the sum of \$100,000, or Lerch Bates fee for the services, whichever is greater.
 5. Insurance: Lerch Bates shall provide Insurance Certificates to the Client upon request following execution of this Agreement. In the event of insurance cancellation or material alteration, Lerch Bates shall provide thirty (30) days' written notice to Client. Client shall add Lerch Bates Inc. as an Additional Insured on Client's General Liability and Umbrella policies and shall provide Lerch Bates with an insurance certificate that includes such coverage.

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- Q. Invoice Payment, Interest on Unpaid Amount and Disputed Invoices: Lerch Bates shall submit progress invoices which are due upon receipt and considered past due if not paid within thirty (30) days of invoice date. If payment in full is not received by Lerch Bates within sixty (60) calendar days of invoice date, invoices will bear interest at one-and-one-half (1.5) percent (or the maximum rate allowable by law, whichever is less) of the unpaid amount per month, which will be calculated from the invoice date. Furthermore, if the Client has not objected to the invoice, as provided for below, and the invoice is more the sixty (60) days outstanding, Lerch Bates may proceed immediately to collection of the invoice without mediation as a condition precedent. Payment thereafter shall first be applied to accrued interest and then to the unpaid principal.
1. Lerch Bates shall be compensated to the extent that Lerch Bates' services are requested, directed, and provided regardless of project schedule or Client's billing arrangement with Owner.
 2. If the Client objects to any portion of an invoice, the Client shall so notify Lerch Bates in writing within fifteen (15) calendar days of receipt of the invoice. The Client shall identify in writing the specific cause of the disagreement and the amount in dispute and shall pay that portion of the invoice not in dispute in accordance with the other payment terms of this Agreement.
 3. Any dispute over invoiced amounts due which the Client has objected to and cannot be resolved within twenty-five (25) calendar days after presentation of invoice by direct negotiation between the parties shall be resolved in accordance with the following Disputed Invoice Resolution process:
 - a. A demand for mediation shall be made in writing, delivered to the other party to the Agreement, and filed with the person or entity administering the mediation.
 - b. The other party shall deliver a written response to the party demanding mediation within seven (7) calendar days of receipt of the demand for mediation indicating that the other party agrees to mediate.
 - c. Should the other party fail to provide a written response to the demand for mediation within the seven (7) day period, the requirement of mediation as a condition precedent under Terms and Conditions paragraph A.14 shall be deemed waived, and Lerch Bates may proceed directly with the filing of a civil complaint in a court of competent jurisdiction.
- R. Additional Services: Lerch Bates' services exceeding the scope of the basic services shall be considered additional services and hourly rates shall be provided upon request. Lerch Bates' services exceeding the scope of the basic services shall be considered additional services and will be provided based upon a mutually agreeable fee and terms.
- S. Collection Costs: Should litigation or arbitration be necessary to collect any portion of amounts due Lerch Bates for work on the Project, Lerch Bates shall also be entitled to all costs of collection, including reasonable attorneys' and expert fees and costs.
- T. Mediation:
1. Client and Lerch Bates agree that all disputes between them arising out of or relating to this Agreement, or the Project shall be submitted to nonbinding mediation as a pre-condition to litigation or arbitration.
 2. Client and Lerch Bates further agree to include a similar mediation provision in all agreements with independent contractors and consultants retained for the Project and to require all

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independent contractors and consultants also to include a similar mediation provision in all agreements with their respective subcontractors, subconsultants, suppliers, and fabricators.

- U. Termination of Services: Lerch Bates reserves the right, in its sole reasonable discretion, to terminate this Agreement upon thirty (30) days' notice for any reason. Lerch Bates may, at its option, suspend work in the event payments are not received and shall have no liability for any delay caused thereby.
- V. Extent of Agreement: This Agreement, when executed by authorized representatives of both Lerch Bates and Client, constitutes all understandings and agreements between the parties hereto and all prior representations or agreements, oral or written, not expressly incorporated herein, are superseded.
- W. This Agreement shall be governed by the state laws of Colorado and Douglas County and all actions pertaining to or arising out of this Agreement shall be filed in said jurisdiction.
- X. If applicable, Lerch Bates and Client shall abide by the requirements of 41 CFR §§ 60-1.4(a), 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities and prohibit discrimination against all individuals based on their race, color, religion, sex, sexual orientation, gender identity or national origin. Moreover, these regulations require that covered entities take affirmative action to employ and advance in employment individuals without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, protected veteran status or disability.
- Y. This proposal expires sixty (60) days from the submission date.

FOR: RS &H, Inc.

FOR: LERCH BATES INC.

ACCEPTED

ACCEPTED

BY: _____

BY: _____

Frank Williams

TITLE: _____

TITLE: Consultant

DATE: _____

DATE: February 20, 2023

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CONSULTING SERVICES PROPOSAL



With an accepted contract we request that you complete the following information and return:

Project Name:

Internal Project #:

P.O. No.:

Bill to Person or Project
Manager:

Phone:

Email:

Billing Address:

.....

Project Billing Schedule? If a project billing schedule exists, please provide

Accounts Payable Contact:

Phone:

Email Address:

.....

Insurance Certificate: Blanket COI attached on next page (If specific COI is required then please send requirements or Addt'l insured)

Lien Waivers Required:

Expenses Billable:

Other Instructions:

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CONSULTING SERVICES PROPOSAL



CERTIFICATE OF LIABILITY INSURANCE

9/30/2022

DATE (MM-DD-YYYY)
9/29/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W 47th Street, Suite 800 Kansas City MO 64112 1906 (816) 960-9000		CONTACT NAME: PHONE: (A/C No. Ext.) FAX: (A/C No.) E-MAIL: ADDRESS:	
INSURED LERCH BATES, INC. 9780 S. MERIDIAN BLVD STE 450 ENGLEWOOD CO 80112		INSURER(S) AFFORDING COVERAGE INSURER A: The Cincinnati Insurance Company 10677 INSURER B: Zurich American Insurance Company 16535 INSURER C: Allied World Surplus Lines Insurance Company 24319 INSURER D: INSURER E:	

COVERAGES MAIN

CERTIFICATE NUMBER: 16283206

REVISION NUMBER: XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSTR. LTR.	TYPE OF INSURANCE	ADDL. INSRD.	INSURD. NO.	POLICY NUMBER	POLICY EFF. (MM/DD/YYYY)	POLICY EXP. (MM/DD/YYYY)	LIMITS
B	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> GLATA-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO. JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	N	N	GL00696080	9/30/2021	9/30/2022	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Per occurrence) \$ 1,000,000 MED. EXP. (Any one person) \$ 10,000 PERSONAL & ADV. INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPOUND AGG \$ 2,000,000
B	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	N	N	8AP6515871	9/30/2021	9/30/2022	COMBINED SINGLE LIMIT (Per occurrence) \$ 1,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> RETENTION \$	N	N	EXNN591161	9/30/2021	9/30/2022	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$ XXXXXXXX
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR OR PARTNER EXECUTIVE OFFICER MEMBER EXCLUDED? (Mandatory in NH) If any describe under DESCRIPTION OF OPERATIONS below	N	N	WV0696081	9/30/2021	9/30/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E. EACH ACCIDENT \$ 1,000,000 L. DISABL. LA EMPLOYEES \$ 1,000,000 E. DISEASE - POLICY LIMIT \$ 1,000,000
C	PROFESSIONAL LIABILITY	N	N	PL1200524	9/30/2021	9/30/2022	\$5,000,000 PER CLAIM/AGG

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES: ACORD 101, Additional Remarks Schedule may be attached if more space is required.
RE: EVIDENCE OF COVERAGE

CERTIFICATE HOLDER

16283206
EVIDENCE OF COVERAGE

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE:

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ACORD 25 (2016/03)

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QUANTUM

Electrical Engineering, Inc.

March 3, 2023

RS&H, Inc.
Mr. Aaron Jackson, PE, LEED AP
Aviation Structural Engineer
10748 Deerwood Park Blvd. South
Jacksonville, FL 32256

Subject: Electrical Engineering Design Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – TASK I-23-PBI-R-030 – Palm Beach International Airport Elevator Modernization includes Tasks 1, 2, 3, and 4 as reflected in the RS&H's Elevator Modernization: Design and Bidding & Award Services Scope of Work, dated February 20, 2023

Dear Aaron:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide RS&H an electrical engineering design services fee proposal for the PBIA Elevator Modernization Tasks 1, 3, 4, 5, 6, and 7. The electrical and fire alarm scope are based off of the 2021 Elevator Assessment Report.

The following tasks are included in our scope:

Scope of Work

- Includes design coordination meetings with the DOA, PBC Planning & Zoning, Fire Marshal, CMAR and RS&H Design Team.
- Includes on-site verifications of all impacted electrical, lighting and fire alarm systems within the project area.
- Design electrical, lighting and fire alarm demolition plans for elevators impacted by construction. Includes design of phasing and temporary power, lighting and fire alarm system plans to maintain airport operations during construction.
- Design electrical distribution for the relocation of existing CCTV head-end equipment and associated infrastructure. Quantum shall provide power for relocations and conduit infrastructure only. Relocation/specification of new equipment to be by RS&H.
- Design LED lighting systems with point-by-point lighting calculations for Elevator Lobbies and elevator machine rooms. Includes modifications to the existing lighting control system to meet current County lighting codes, Florida Building Code, Energy code and DOA requirements when required.
- Design new normal & emergency electrical power, lighting, and fire alarm systems to meet current County, Florida Building, NEC, NFPA codes and DOA standards for replacement of the existing elevator systems. Includes design of power, replacement of disconnect switches, lighting and fire alarm systems for new elevators, sump pumps, elevator pit lighting and power, surge protective devices, access control and security systems, IT equipment / systems, plumbing systems, and HVAC systems. Includes electrical one-lines/risers, schedules, plan layouts, details, and electrical calculations.
- Detailed scope for Electrical and fire alarm improvements for Elevator 1-12:
 - Replacement of existing pit lighting, switches and receptacles.

Palm Beach County
2755 Vista Parkway, Suite I-12
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

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

- Replacement of existing elevator disconnect switches and feeder conductors.
- Replacement of existing Electrical Panel EL1 and EL2 along with the associated feeders.
- Removal/relocation of foreign equipment for elevators 1-12, includes the relocation of conduit and conductor systems from the elevator machine rooms. Equipment to be relocated by others.
- Relocation of conduit and conductor systems and lighting systems to provide 84" of head room in all elevator equipment rooms.
- Photometric calculations and replacement of existing lighting in the elevator machine room.
- GFCI protection for receptacles in the elevator machine rooms.
- Includes verification of existing smoke detector coverage and design of additional smoke detection in elevator machine rooms to meet Code requirements when exposed beams are present.
- Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Includes coordination with the AHJ and Elevator inspector for smoke detector locations and requirements in the elevator lobby areas. Includes design of additional smoke detection when required by the AHJ.
- Detailed scope for Electrical and fire alarm improvements for Elevator 13:
 - Replacement of existing pit lighting, switches and receptacles.
 - Replacement of existing elevator disconnect switches and feeder conductors.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine room.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 14:
 - Replacement of existing pit lighting, switches and receptacles.
 - Includes design of additional heat detection in elevator shaft to meet Code requirements.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine room.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 15:
 - Replacement of existing pit lighting, switches and receptacles.
 - Replacement of existing elevator disconnect switches and feeder conductors.
 - Removal/relocation of foreign equipment includes the relocation of conduit and conductor systems from the elevator machine rooms. Equipment to be relocated by others.
 - Includes fire alarm monitoring of new fire phone at exterior stair.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.

- Detailed scope for Electrical and fire alarm improvements for Elevator 16 &17:
 - Replacement of existing pit lighting, switches and receptacles.
 - Replacement of existing elevator disconnect switches and feeder conductors and conduits.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 18 &19:
 - Replacement of existing pit lighting, switches, sump pump and receptacles.
 - Replacement of existing elevator disconnect switches and feeder conductors.
 - Replacement of existing power panel HC and connecting to the existing emergency power system, including new conduit and conductor systems.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 20:
 - Replacement of existing pit lighting, sump pump, switches, and receptacles.
 - Replacement of existing elevator disconnect switch.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - Includes design of additional heat detection in shaft.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 21-24:
 - Replacement of existing pit lighting, switches, and receptacles.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.
- Detailed scope for Electrical and fire alarm improvements for Elevator 27:
 - Replacement of existing pit lighting, switches, and receptacles.
 - Replacement of existing elevator disconnect switch.
 - Photometric calculations and replacement of existing lighting in the elevator machine room.
 - Includes design of additional heat detection in elevator shaft to meet Code requirements.
 - GFCI protection for receptacles in the elevator machine rooms.
 - Includes design of additional heat detection in elevator equipment room to meet Code requirements.
 - Photometric calculations and replacement of existing lighting in the elevator lobbies to ensure compliance with ASME 17.1.

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Palm Beach International Airport Elevator Modernization

- Includes preliminary short circuit calculations for sizing of electrical equipment withstand ratings for permitting and bidding purposes. Final coordination study and arc flash analysis and labeling to be completed under CA services.

Task 1: Existing Condition Documentation

Task 1.1: Project Kick-Off

- Includes design kick-off meeting with the DOA and RS&H Design Team. Assume one (1) on-site meeting.

Task 1.2: Data Collection and Review of As-Built Conditions

- Includes review of record drawings/as-built plans pertaining to existing lighting, electrical and fire alarm systems of the impacted area.

Task 1.3: On-Site Walkthrough

- Includes on-site verifications and discovery of existing lighting, electrical and fire alarm systems and collection of relevant data.

Task 1.4: Development/Modification of Existing Condition Revit Model

- Excluded, updated models to be provided to Quantum.

Task 2 Phase 3A: 60% Construction Documents

Task 2.1.6: 60% Construction Document Preparation

- Electrical Design Development:
 - Includes providing 60% design level electrical, lighting and fire alarm information reflecting required one-line diagrams, riser diagrams, schedules, details and plan layouts for design & specification.
 - Includes 60% design level electrical and fire alarm calculations.
 - Coordination with the RS&H Team on the electrical requirement of other disciplines.

Task 2.2: Federal Agency Coordination

- Coordination with Kone Maintenance Inspection firm.
- Includes coordination meetings with the DOA and RS&H Design Team. Assume up to two (2) virtual/teleconference meetings.

Task 2.3: Design Coordination Meetings (OAC Meetings)

- Includes up to two (2) zoom design coordination meetings with the DOA and RS&H Design Team.

Task 2.4: Rough Order of Magnitude (ROM) Opinion of Probable Construction

- Include the review of 60% Electrical Probable Construction Cost and provide comments to RS&H Team.

Task 2.5: Quality Control Review

- Includes responses to RS&H QC comments for incorporation into final 60% submittal.
- Includes interdisciplinary review to ensure coordination of elements between disciplines.

Task 2.6: Submittal

- Prepare and submit electronic pdf plans and specifications to RS&H.

Task 2.7: CMAR Coordination

- Include review of CMAR constructability report and estimate.
- Includes responses to CMAR constructability comments.

Task 2.8: 60% Construction Document Review Meeting

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Palm Beach International Airport Elevator Modernization

- Includes attending one (1) on-site 60% design review meeting with DOA and RS&H Team.

Task 3: Phase 3C 100% Construction Documents

Task 3.1: Prior Phase Drawing/Comment Incorporation

- Includes incorporation of all 90% Design related comments from the DOA into 100% Construction Documents.
- Includes responses to review comments generated by the DOA, CMAR, and RS&H Team.

Task 3.2: Code and Permitting Research with AHJs

- Preliminary determination and documentation of jurisdictional authority requirements. Interpretations of requirements will be incorporated in the design documents for jurisdictional reviews.

Task 3.3: 100% Construction Document Preparation

- Task 3.3.6 Electrical Construction Documents:
 - Includes providing 100% design level electrical, lighting and fire alarm information reflecting required one-line diagrams, riser diagrams, schedules, details and plan layouts for design & specification.
 - Includes 100% design level electrical and fire alarm calculations.
 - Coordination with the RS&H Team on the electrical requirement of other disciplines.

Task 3.4: Design Coordination Meetings (OAC Meetings)

- Includes up to two (2) zoom design coordination meeting with the DOA and RS&H Design Team.

Task 3.5: Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs

- Include review of 100% Electrical Probable Construction Cost and provide comments to RS&H Team.

Task 3.6: Quality Control Review

- Includes responses to RS&H QC comments for incorporation into final 100% submittal.
- Includes interdisciplinary review to ensure coordination of elements between disciplines.

Task 3.7: Submittal

- Prepare and submit electronic pdf plans and specifications to RS&H.

Task 3.8: CMAR Coordination

- Include review of CMAR constructability report and estimate.
- Includes responses to CMAR constructability comments.

Task 3.9: 100% Construction Document Review Meeting

- Includes attending one (1) on-site 90% design review meeting with DOA and RS&H Team.

Task 3.10: Updated 100% Construction Document and Submittal

- Includes updating the 100% Construction Documents based on reconciliation between CMAR and Design Team. Revised documents will be submitted for bidding.

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Mr. Aaron Jackson, P.E.

Palm Beach International Airport Elevator Modernization

Task 4 Phase 4: Bidding and Award of Contract Services

Task 4.1: CMAR Inquiries/Clarifications and Addenda

- Includes incorporation of all 100% related comments from the DOA, CMAR and RS&H Design Team into Bid / Permit Documents.
- Includes review of CMR Bid documents.
- Attendance at Prebid with on-site walkthrough.
- RFI and Addendum Responses

Task 4.2: CMAR GMP Review and Recommendation

- Review of CMAR GMP proposal and electrical pricing results and provide comments to RS&H Team.

Task 4.3: Permitting Submittal and Clarifications

- Includes signing and sealing drawings and specifications.
- Review permit comments and provide responses and plan revisions as necessary.

Task 4.4: Conformed Document Preparation

- Includes incorporation of all issued documentation under Tasks 4.1 and 4.3 into Conformed Documents to be used for construction.

Exclusions and Assumptions

- RS&H shall provide all base drawings to Quantum on REVIT 2022 or higher.
- Assumes that RS&H shall provide to Quantum overall and area sheets and views (with view templates)
- All IT, CCTV and security systems to be designed/relocated by RS&H who shall provide to Quantum electrical requirements for the new/relocated systems.
- Excludes electrical, lighting and communication/IT/CCTV within the elevator cab.
- Excludes the design of the elevator umbilical power cord.
- RS&H shall provide all printing of plans & specifications for reviews, bid phase, permits and construction phases.
- Does not include coordination study or arc flash analysis (to be included in construction services).
- Does not include construction services.

Our proposed Lump Sum Fee for Task 1 is:	\$ 1,298.00
Our proposed Lump Sum Fee for Task 2 is:	\$ 46,748.00
Our proposed Lump Sum Fee for Task 3 is:	\$ 30,675.00
Our proposed Lump Sum Fee for Task 4 is:	\$ 5,706.00

Our proposed total Lump-Sum fee is: \$ 84,426.00

(See Attachment for Breakdown)

Sincerely,



Amy Champagne-Baker, PE
President

		HOURS						HOURS	TOTAL COST (\$)
		Project Manager \$181.54	Professional Engineer \$144.23	Project Engineer \$138.46	CADD / Technician \$69.23	Clerical \$46.15	Field Engineer / RPR \$132.69		
Task 1	Existing Condition Documentation								
1.1	Project Kick Off							-	\$ -
	Electrical & Fire Alarm		1					1	\$ 144
1.2	Data Collection and Review of As-Built Conditions							-	\$ -
	Electrical & Fire Alarm		4					4	\$ 577
1.3	On-Site Walkthrough							-	\$ -
	Electrical & Fire Alarm		4					4	\$ 577
Task Total		-	9	-	-	-	-	9	\$ 1,298
Task 2	Phase 3A: 60% Construction Documents								
2.1	60% Design Document Preparation							-	\$ -
	Electrical Design Development							-	\$ -
	Electrical		80	80	80	8		248	\$ 28,523
	Fire Alarm		40	24	60	8		132	\$ 13,615
2.2	Federal Agency Coordination							-	\$ -
	Electrical & Fire Alarm		2					2	\$ 288
2.3	Design Coordination Meetings (OAC meetings)							-	\$ -
	Electrical & Fire Alarm		2					2	\$ 288
2.4	Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs							-	\$ -
	Electrical		1					1	\$ 144
	Fire Alarm		1					1	\$ 144
2.5	Quality Control Review							-	\$ -
	Electrical		8		8			16	\$ 1,708
	Fire Alarm		4		8			12	\$ 1,131
2.6	Submittal							-	\$ -
	Electrical & Fire Alarm		1		2	1		4	\$ 329
2.7	CMAR Coordination							-	\$ -
	Electrical & Fire Alarm		2					2	\$ 288
2.8	60% Construction Document Review Meeting							-	\$ -
	Electrical & Fire Alarm		2					2	\$ 288
Task Total		-	143	104	158	17	-	422	\$ 46,748
Task 3	Phase 3C: 100% Construction Documents								
3.1	Prior Phase Drawing / Comment Incorporation							-	\$ -
	Electrical		8	4	16			28	\$ 2,815
	Fire Alarm		4	2	8			14	\$ 1,408
3.2	Code and Permitting with AHJs							-	\$ -
	Electrical & Fire Alarm		1	2		1		4	\$ 467
3.3	100% Construction Document Preparation							-	\$ -
	Electrical Construction Documents							-	\$ -
	Electrical		24	24	40	8		96	\$ 9,923
	Fire Alarm		16	16	40	8		80	\$ 7,661
3.4	Design Coordination Meeting (OAC Meeting)							-	\$ -
	Electrical		2					2	\$ 288
3.5	Rough Order of Magnitude (ROM) Opinion of Probable Construction Costs							-	\$ -
	Electrical		1					1	\$ 144
	Fire Alarm		1					1	\$ 144
3.6	Quality Control Review							-	\$ -
	Electrical		8		8	1		17	\$ 1,754
	Fire Alarm		8		8	1		17	\$ 1,754
3.7	Submittal							-	\$ -
	Electrical & Fire Alarm		1		2	1		4	\$ 329
3.8	CMAR Coordination							-	\$ -
	Electrical & Fire Alarm		2			1		3	\$ 335
3.9	100% Construction Document Review Meeting							-	\$ -
	Electrical & Fire Alarm		3					3	\$ 433
3.1	Update 100% Construction Document and Permit Submittal							-	\$ -
	Electrical		4	4	8	2		18	\$ 1,777
	Fire Alarm		2	4	8	1		15	\$ 1,442
Task Total		-	85	56	138	24	-	303	\$ 30,675
Task 4	Phase 4: Bidding and Award of Contract Services								
4.1	CMAR Inquiries/Clarifications and Addenda							-	\$ -
	Electrical		8	2	4	2		16	\$ 1,800
	Fire Alarm		2	2	4	2		10	\$ 935
4.2	CMAR GMP Review and Recommendation							-	\$ -
	Electrical		2					2	\$ 288
	Fire Alarm		1					1	\$ 144
4.3	Permitting Submittal and Clarifications							-	\$ -
	Electrical		4	2	4	1		11	\$ 1,177
	Fire Alarm		2	2	4	1		9	\$ 888
4.4	Conformed Document Preparation							-	\$ -
	Electrical & Fire Alarm		2		2	1		5	\$ 473
Task Total		-	21	8	18	7	-	54	\$ 5,706
TOTAL FOR ALL TASKS		-	258	168	314	48	-	788	\$ 84,426

EXHIBIT A-3 – Task I-23-PBI-R-034: FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services

***FIS and Building 846 Storm
Resiliency Modifications -
Package 3: Bidding and
Award / Construction
Administration Services***

Version 1.0

February 21, 2023

Palm Beach County (PBC) Department of Airports (DOA)
West Palm Beach, FL

Task Authorization No. I-23-PBI-R-039

RS&H Project No.: 206-3101-039

Prepared by RS&H, Inc. at the
direction of PBC DOA



I PROJECT DESCRIPTION

The Airport has requested that RS&H (Consultant) under the Agreement with RS&H for Airport Facilities and System Consulting Services for Palm Beach County Department of Airports Project No. DOA 18-2A provide a scope and fee for Construction Administration Services for the FIS and Building 846 Storm Resiliency Modifications: Package 3 Construction Project at Palm Beach International Airport (Project).

The following professional disciplines/services/specialties are expected to play a significant role in the development of the Project:

- » Project Management
- » Architecture/Life Safety CA
- » Structural Engineering CA
- » Mechanical Engineering CA
- » Plumbing Engineering CA
- » Electrical Engineering CA
 - Lighting
 - Power
 - Addressable Fire Alarm
- » Low Voltage Systems CA
 - Security (Access Control)
 - IT Network Systems
 - Paging System

The Consultant design team is made up of the following professionals:

<u>Consultant/Subconsultant</u>	<u>Involvement</u>
RS&H, Inc.	Architecture/Life Safety, Structural, Mechanical, Plumbing, Low Voltage, Project Management
Quantum Electrical Engineering, Inc.	Electrical – Power, Lighting.
Tierra South Florida	Threshold Inspection

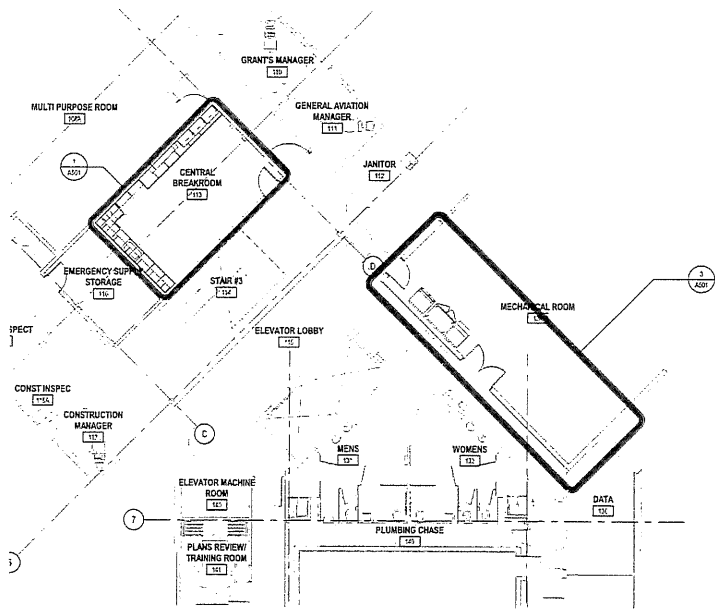


FIGURE 1: BUILDING 846- FIRST LEVEL FLOOR PLAN

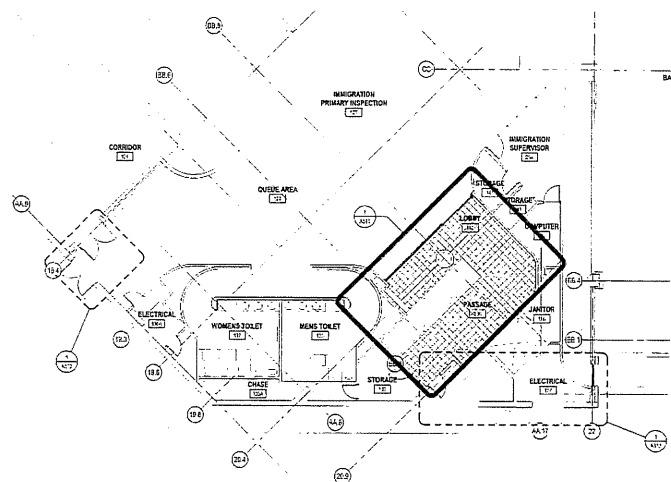


FIGURE 2: FIS FIRST LEVEL FLOOR PLAN

The project includes the modification/renovation of the existing Administration Building and Communications Facility (Bldg 846) and the Terminal FIS to improve the performance of the facilities during storm events.

Project Duration – The Construction Schedule and Project Duration for Construction Administration Services is (10) ten months from NTP.

- » Pre-Mobilization: (2) two months
- » Construction: (7) seven months
- » Project Closeout: (1) month – Excludes Task 3.2

II PROJECT TASKS

TASK 1 BIDDING AND AWARD PHASE SERVICES – CMAR DELIVERY

Following the completion of the Phase 3C: 100% Construction Document phase completed under DOA Task Authorization I-20-PBI-R-021, these efforts will occur during the process of the CMAR bidding (Permitting is to be completed under Task I-20-PBI-R-021). Specific tasks are as follows:

Task 1.1 Pre-Bid Preparation/Meeting

Excluded. The Consultant assumes this effort will be completed by the CMAR.

Task 1.2 Inquiries/Clarifications and Addenda

Excluded. Effort to be completed under Task I-20-PBI-R-021 Task 7.

Task 1.3 CMAR GMP Review and Recommendation

The Consultant shall review the GMP proposals submitted by the CMAR and provide comments and recommendation of acceptance or rejection to the Owner. The Consultant will review initial GMP submittal and (1) GMP revision.

Task 1.4 Permitting Submittal and Clarifications

Excluded. Effort to be completed under Task I-20-PBI-R-021 Task 7.

Task 1.5 Conformed Document Preparation

The Consultant shall update the Bid / Permit Documents to include all required modifications issued during the permitting processes (effort to incorporate any changes to drawings during CMAR bidding process captured under Task I-20-PBI-R-021 Task 7). This conformed set of documents will be provided to the CMAR and the DOA as the baseline for construction activities.

Task 1.6 Pre-Bid Site Visit

The Consultant shall coordinate with the Airport / CMAR to attend on-site (1) one meeting with the CMAR to discuss project scope of work. The following members of the Consultant team will be present:

- » Project Manager

» Electrical

Task 1.7 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the Consultant team's efforts including assembly and coordination of all documentation.

TASK 2 CONSTRUCTION ADMINISTRATION SERVICES- CMAR DELIVERY

The scope (and fee) proposed under this task is based upon an estimated total construction duration of (10) ten months. The scope and fee may need to be modified should the construction duration exceed this time. Specific task breakdowns are as follows:

Task 2.1 Pre-Construction Conference

Not included. The Consultant assumes this effort will be completed by the CMAR.

Task 2.2 RFI/Substitutions/Submittal Review

The Consultant shall review and respond to Request for Information (RFI's), substitution requests, shop drawings, samples, and other submissions furnished by the contractor and submitted to the Consultant. The Consultant Project Manager shall review and approve as required. The Consultant will utilize Newforma for tracking, reviewing, and responding to RFIs and submittals.

Submittal review will be limited to the initial review and a single resubmittal.

Task 2.3 Construction Meetings / Site Visits

Members of the Consultant's Design Team shall participate in bi-weekly construction coordination meetings until the Contractor has mobilized, approximately (2) two months. Each meeting is anticipated to be (1) one hour.

- » Pre-Mobilization: (4) four meetings total
 - (4) four Meetings - The Consultant's Design Team will participate via ZOOM or another virtual program.
 - The following individuals will be present from the Consultant's Design Team at each construction meeting:
 - Project Manager
 - Architect
 - Structural Engineer
 - Mechanical Engineer
 - Plumbing Engineer
 - Electrical Engineer
 - Low Voltage Engineer

Once the Contractor has mobilized and is on-site, members of the Consultant's Design Team shall participate in bi-weekly construction coordination meetings, approximately (7) seven months. Each meeting is anticipated to be (1) one hour.

» Post-Mobilization:

- On-Site: The following disciplines / individuals will be present from the Consultant's Design Team for the number of meeting indicated. The on-site meetings will average (1) one per month with site visit to follow meeting.
 - Project Manager – (7) seven meetings
 - Architect – (7) seven meetings
 - Structural Engineer – (4) four meetings
 - Mechanical / Plumbing Engineer – (4) four meetings
 - Electrical Engineer – (7) seven meetings
 - Low Voltage Engineer – (1) one meeting
- Remote: The following disciplines / individuals will participate via ZOOM or another virtual program from the Consultant's Design Team for the number of meeting indicated.
 - Project Manager – (7) seven meetings
 - Architect – (7) seven meetings
 - Structural Engineer – (4) four meetings
 - Mechanical / Plumbing Engineer – (4) four meetings
 - Electrical Engineer – (7) seven meetings
 - Low Voltage Engineer – (1) one meetings

The CMAR shall conduct the meetings, prepare agendas and provide the meeting minutes.

Task 2.4 Change Directives and Change Notices

The Consultant will prepare documentation to issue Change Directives and Change Notices with the approval of the Airport. Changes that require additional design and documentation effort from the Consultant will be handled through an amendment to the contract. No changes will be executed, and no work progressed associated with those changes without prior approval from the Airport.

Task 2.5 Threshold Inspection

TSF shall perform Threshold Inspection services in accordance with the Threshold Inspection Plan included on the Construction Documents. All elements will be inspected for compliance with the reference drawings and threshold inspection plan.

The following individuals will participate via ZOOM at (1) one threshold kickoff meeting:

» Project Manager

- » Structural Engineer
- » Threshold Inspector

Inspections by the Threshold Inspector will be performed on an as needed basis and coordinated with the progress of construction. A conformance / non-conformance log will be performed and updated on a monthly basis. An inspection report will be provided for each site inspection. Additionally, a monthly report will be submitted to the authority having jurisdiction and Owner. Report will be a summary of the daily reports and the material testing reporting.

Threshold Inspection will be completed by MCE and includes (12) coordination meetings with the Consultant's Design Team Structural Engineer (remote via Zoom) that averages (1) one hour each.

The Structural Engineer will review threshold inspection reports.

Task 2.6 Substantial Completion Observation and Punchlist

The Consultant's Design Team shall perform, together with the Airport's authorized representative(s), a substantial completion observation of the project at Building 846 and at the FIS to determine if the project has been completed in accordance with the contract documents so that the Consultant may recommend approval to Airport if applicable, in writing, the issuance of a Certificate of Substantial Completion for each phase (ie Partial Certificate of Substantial Completion). The Consultant's Design Team shall prepare a punchlist of items that must be completed or that are deficient. The CMAR shall submit phase punchlist to the Consultant prior to observation.

The following disciplines/individuals will be present from the Consultant's Design Team at each Phase's Substantial Completion Observation:

- » Architect – (1) one for FIS and
– (1) for Bldg 846
- » Structural Engineer – (1) one for FIS
- » Mechanical Engineer – (1) one for FIS
- » Plumbing Engineer – (1) one for Bldg 846
- » Electrical Engineer – (1) one for FIS and
– (1) for Bldg 846
- » Low Voltage Engineer – (1) one for FIS

Task 2.7 Final Observation

The Consultant's Design Team shall perform, together with the Airport's authorized representative(s), a final observation of the project. The Consultant confirm acceptable completion of punchlist of Task 2.6, and if the CMAR has fulfilled all obligations thereunder so that the Consultant may recommend approval to Airport final payment to the CMAR for each phase.

The following disciplines/individuals will be present from the Consultant's Design Team at each Final Observation:

- » Project Manager or Architect

Task 2.8 Short Circuit, Device Coordination & Arc Flash Analysis

Consultant will update the existing Short Circuit, Device Coordination & Arc Flash Study pertaining to the electrical equipment added, removed and/or modified as part of the Storm Package 3 Project. The scope shall include

- » Updating the existing power system model in SKM Power Tools for Windows
- » Re-run the Short Circuit, Device Coordination and Arc Flash Calculations
- » Updating one-lines, written report and tabular data
- » Develop arc flash labels on new/modified equipment

Task 2.9 Project Management

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the Consultant team's efforts including assembly and coordination of all documentation.

TASK 3 PROJECT CLOSEOUT

Project closeout includes the preparation of the record documents, final BIM models, and final invoicing.

Task 3.1 Record Documents

The Consultant shall obtain red-line as-built drawings from Construction Contractor and prepare "Record Drawings", which shall become the property of the Airport corrected to show significant changes made in the work during the construction of the project. Such corrections shall be the "as-built" prints, drawings, field sketches and other data furnished to the Consultant by the Airport and the contractor, and any amendments issued during construction.

- » Electronic updated set of drawings (.pdf)
- » Electronic updated set of specifications (.pdf)

Task 3.2 Warranty Period Inspection

The Consultant shall conduct an on-site observation of the Project prior to the expiration of any electrical and mechanical warranty period and advise the Owner (via report) of recommended action, if any, to be taken under the terms of any warranty. The project will include an (11) eleven-month electrical and mechanical equipment warranty inspection for each phase of the project.

The following disciplines/individuals will be present from the Consultant team to complete the warranty inspections:

- » Project Architect
- » Electrical Engineer
- » Mechanical Engineer

Task 3.3 Project Management and Discipline Coordination

Consultant will oversee scheduling, resource allocation, monitoring, oversight, direction, and control for all aspects of the team's efforts including assembly and coordination of all documentation.

The Consultant will issue monthly progress reports with each invoice to the Airport project manager during this portion of the project.

III MEETINGS AND PRESENTATIONS

The following meetings and presentations will be attended as part of this proposal:

Task	Presentation / Meeting / Site Visit	Total Meetings	In-Person Meetings/Site Visits	Conference Calls/ Web-Based
1.6	Pre-Bid Site Visit	1	X	
2.3	Construction Meetings/Site Visits	As defined above		
2.5	Threshold Inspection	1		X
2.6	Substantial Completion	As defined above		
2.7	Final Completion Observation	1	X	
3.2	Warranty Period Inspection	1	X	

IV DELIVERABLES

The following deliverables will be submitted as part of this proposal:

Task	Deliverable	Information Included	Format
2.6	Substantial Completion Punchlist	Punchlist	.pdf
3.1	Record Documents	Drawings and Specifications, Revit model	.pdf

V ASSUMPTIONS AND EXCLUSIONS

The following assumptions have been made for this Scope of Work:

- » CMAR will prepare and distribute agenda and meeting minutes for all meetings.

The following items are excluded from this Scope of Work unless otherwise noted:

- » RPR Services
- » Fees associated with permitting
- » Pay Application Reviews
- » RS&H will only perform services/work related in any way to PFAS chemicals or substances possibly containing PFAS chemicals (including but not limited to sampling, handling and remediating) to the extent the Palm Beach Department of Airports specifically directs, in writing, RS&H to perform such services/work, and RS&H shall not be liable for the nonperformance of such services/work.

VI PROFESSIONAL SERVICES FEE AND FEE TYPE

RS&H will provide the above referenced services for a Fixed Lump Sum Fee of \$166,454.43. See Attachment for a breakdown of costs.

Should scope items/activities/efforts/durations be modified at the request of the Airport or need to be adjusted based on design/construction scheduling, the Consultant Team will need to modify the fee to accommodate the changes. Such changes will be compensated through an amendment (through Additional Services requested by the Consultant) to the Task Order or similar vehicle. Effort, fee, and schedule adjustments resulting from a change in scope will be assessed and approved by the Airport prior to the execution of the change.

ATTACHMENT A: FEE BREAKDOWN

FIS and Building 846 Storm Resiliency Modifications: Package 3
Bidding and Award / Construction Administration Services

<u>Task</u>	<u>Description</u>	<u>Hours</u>	<u>Fee</u>
1	Bidding and Award Phase Services - CMAR Delivery	59	\$11,911.55
2	Construction Administration Services - CMAR Delivery	444	\$89,910.56
3	Project Closeout	59	\$13,694.46
		Subtotal RS&H Labor Hours	562
		Subtotal RS&H Labor Fee	\$115,516.57
<u>Subconsultants</u>			
	Quantum		\$33,091.86
	TSF		\$1,750.00
		Subtotal Subconsultant Fee	\$34,841.86
<u>Expenses</u>			
	Travel		\$14,596.00
	Other		\$1,500.00
		Subtotal Expenses	\$16,096.00
		Total Project Fee	\$166,454.43

FIS and Building 846 Storm Resiliency Modifications: Package 3			HOURS								HOURS	TOTAL COST (\$)	
			Principal	Senior Project Manager	Senior Architect	Architect	Intern Architect	Senior Engineer	Engineer	Engineer Intern			Administrative Assistant
Burdened hourly rate			\$349.99	\$287.02	\$245.39	\$125.87	\$85.16	\$246.63	\$151.55	\$96.47	\$60.37		
Task 1 Bidding and Award Phase Services - CMAR Delivery													
1.3		CMAR GMP Review and Recommendation										-	\$0.00
		PM		3								3	\$861.06
		Architecture			2							2	\$490.78
		Structural							2			2	\$303.10
		Mechanical						2				2	\$493.26
		Plumbing						2				2	\$493.26
		Low Voltage							3			3	\$454.65
1.5		Conformed Document Preparation										-	\$0.00
		PM		1								1	\$287.02
		Architecture			1	3	3					7	\$878.48
		Structural						1	2	2		5	\$742.67
		Mechanical						1	2	2		5	\$742.67
		Plumbing						1	2	2		5	\$742.67
		Low Voltage						1	3	3		7	\$990.69
1.6		Pre-Bid Site Visit										-	\$0.00
		PM		10								10	\$2,870.20
1.7		Project Management and Project Coordination										-	\$0.00
		PM	2	3								5	\$1,561.04
Task Total			2	17	3	3	3	8	14	9	-	59	\$11,911.55
Task 1 Construction Administration Services - CMAR Delivery													
2.2		RFI/Substitutions/Submittal Review										-	\$0.00
		PM		10								10	\$2,870.20
		Architecture			9	20						29	\$4,725.91
		Structural						3	12			15	\$2,558.49
		Mechanical						7	12			19	\$3,545.01
		Plumbing						7	12			19	\$3,545.01
		Low Voltage						3	6			9	\$1,649.19
2.3		Construction Meetings/Site Visits										-	\$0.00
		Pre-Mobilization											
		PM		3								3	\$861.06
		Architecture				5						5	\$629.35
		Structural							4			4	\$606.20
		Mechanical						4				4	\$986.52
		Plumbing						4				4	\$986.52
		Low Voltage							6			6	\$909.30
		Post-Mobilization											
		Remote											
		PM		5								5	\$1,435.10
		Architecture				9						9	\$1,132.83
		Structural							4			4	\$606.20
		Mechanical						4				4	\$986.52
		Plumbing						4				4	\$986.52
		Low Voltage							2			2	\$303.10

FIS and Building 846 Storm Resiliency Modifications: Package 3 <div>Burdened hourly rate</div>			HOURS								HOURS	TOTAL COST (\$)	
			Principal \$349.99	Senior Project Manager \$287.02	Senior Architect \$245.39	Architect \$125.87	Intern Architect \$85.16	Senior Engineer \$246.63	Engineer \$151.55	Engineer Intern \$96.47			Administrative Assistant \$60.37
		On-Site											
		PM		21							21	\$6,027.42	
		Architecture				36					36	\$4,531.32	
		Structural							31		31	\$4,698.05	
		Mechanical						30			30	\$7,398.90	
		Plumbing						30			30	\$7,398.90	
		Low Voltage							26		26	\$3,940.30	
2.4		Change Directives and Change Notices									-	\$0.00	
		PM		3							3	\$861.06	
		Architecture			2	5					7	\$1,120.13	
		Structural						2	4		6	\$1,099.46	
		Mechanical						2	4		6	\$1,099.46	
		Plumbing						2	4		6	\$1,099.46	
		Low Voltage						3	6		9	\$1,649.19	
2.5		Threshold Inspection									-	\$0.00	
		Structural						7			7	\$1,726.41	
2.6		Substantial Completion Observation and Punchlist									-	\$0.00	
		Architecture			9						9	\$2,208.51	
		Structural						7			7	\$1,726.41	
		Mechanical						7			7	\$1,726.41	
		Plumbing						7			7	\$1,726.41	
		Low Voltage						24			24	\$5,919.12	
2.7		Final Observation									-	\$0.00	
		Architecture			9						9	\$2,208.51	
2.8		Short Circuit, Device Coordination & Arc Flash Analysis											
		PM		1							1	\$287.02	
2.9		Project Management and Project Coordination									-	\$0.00	
		PM	2	5							7	\$2,135.08	
Task Total			2	48	29	75	-	157	133	-	-	444	\$89,910.56
Task 3 Project Closeout													
3.1		Record Documents									-	\$0.00	
		PM		1							1	\$287.02	
		Architecture			1	3					4	\$623.00	
		Structural						1	2		3	\$549.73	
		Mechanical						1	2		3	\$549.73	
		Plumbing						1	2		3	\$549.73	
		Low Voltage						1	3		4	\$701.28	
3.2		Warranty Period Inspection									-	\$0.00	
		PM		1							1	\$287.02	
		Architecture			19						19	\$4,662.41	
		Mechanical						15			15	\$3,699.45	
3.3		Project Management and Discipline Coordination									-	\$0.00	
		PM	1	5							6	\$1,785.09	
Task Total			1	7	20	3	-	19	9	-	-	59	\$13,694.46
TOTAL FOR ALL TASKS (RS&H)			5	72	52	81	3	184	156	9	-	562	\$115,516.57

FIS and Building 846 Storm Resiliency Modifications: Package 3

Sub Consultant - Labor Effort by Major Task Item (Lump Sum)				
Quantum Electrical Engineering	<i>Electrical, Fire Alarm</i>	\$ 1,078.84	\$ 30,478.43	\$ 1,534.59
TSF Geo	<i>Material Testing / Threshold Inspection</i>	\$ -	\$ 1,750.00	\$ -
TOTAL SUBCONSULTANTS (Labor)				\$ 34,841.86
Sub Consultant - Reimbursable Expenses (Not-To-Exceed)				
Quantum Electrical Engineering	<i>Electrical</i>			\$ -
TSF Geo	<i>Material Testing / Threshold Inspection</i>			\$ -
TOTAL SUBCONSULTANTS (Expenses)				\$ -
Quantum Electrical Engineering	<i>Electrical</i>			\$ 33,091.86
TSF Geo	<i>Material Testing / Threshold Inspection</i>			\$ 1,750.00
TOTAL SUBCONSULTANTS				\$ 34,841.86

FIS and Building 846 Storm Resiliency Modifications: Package 3

[illegible]

ATTACHMENT B: SUBCONSULTANT PROPOSALS

QUANTUM

Electrical Engineering, Inc.

March 1, 2023

RS&H, Inc.
Mr. Aaron Jackson, PE, LEED AP
Aviation Structural Engineer
10748 Deerwood Park Blvd South,
Jacksonville, FL 32256

Subject: Electrical Engineering Construction Administration (CA) Services Fee Proposal
for the Palm Beach County Department of Airports (DOA) – FIS and Building
Resiliency Modifications – Package 3: Bidding and Award / Construction
Administration services, Dated January 2023

Dear Aaron,

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide RS&H an electrical engineering Construction Administration (CA) services fee proposal for the Palm Beach International Airport FIS and Building Resiliency Modifications – Package 3 CA Services with an anticipated construction duration of 10 months from notice to proceed to substantial completion. The following tasks are included in our scope:

Task 1: Bidding and Award Phase Services

Task 1.1: Pre-Bid Preparation/Meeting

- Excluded – Quantum assumes this effort to be completed by the CMAR

Task 1.2: Inquiries/Clarifications and Addenda

- Excluded – Effort to be completed under Task I-20-PBI-R-021 Task 7.

Task 1.3: CMAR GMP Review and Recommendation

- Quantum shall review the GMP proposals submitted by the CMAR and provide comments and recommendations of acceptance or rejection to the Owner.
- Quantum shall review the initial GMP submittal and one (1) GMP revision.

Task 1.4: Permitting Submittal and Clarifications

- Excluded – Effort to be completed under Task I-20-PBI-R-021 Task 7.

Task 1.5: Conformed Document Preparation

- Quantum shall update the Bid / Permit Documents to include all required modifications issued during the permitting process (effort to incorporate any changes to drawings during CMAR bidding process captured under Task I-20-PBI-R-021 Task 7). This conformed set of documents will be provided to the CMAR and the DOA as the baseline for construction activities.

Task 1.6: Pre-Bid Site Visit

- Quantum shall coordinate with the Airport / CMAR to attend one (1) on-site Pre-Bid meeting to discuss the project scope of work.

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Mr. Aaron Jackson, P.E.

Electrical Engineering CA Services Fee Proposal for the FIS and Building Resiliency Modifications – Package 3

Task 1.7: Project Management

- Excluded – Quantum assumes this effort to be completed by the RS&H

Task 2: Construction Administration Services

Task 2.1: Pre-Construction Conference

- Excluded – Quantum assumes this effort to be completed by the CMAR

Task 2.2: RFI/Substitutions/Submittal Review

- Includes requests for information reviews & approvals. Assumption of 12 RFIs
- Includes substitution request reviews & approvals.
- Includes electrical shop drawings submittals reviews & approvals. Assumption of 25 shop drawings.

Task 2.3: Construction Meetings / Site Visits

- Pre-Mobilization
 - Quantum shall attend four (4) virtual meetings via ZOOM or another virtual program. Anticipate meetings to last one (1) hour.
- Post-Mobilization
- Quantum shall attend seven (7) on-site meetings. Anticipate meetings to last one (1) hour and corresponding site visit to last three (3) hours. Includes a written observation report, documenting the findings of each site visit.
- Quantum shall attend seven (7) virtual meetings via ZOOM or another virtual program. Anticipate meetings to last one (1) hour.

Task 2.4: Change Directives and Change Notices

- Includes change order reviews.
- Includes minor plan alterations and revisions.

Task 2.5: Threshold Inspections

- Excluded – Quantum assumes this effort to be completed by the RS&H

Task 2.6: Substantial Completion Observation and Punchlist

- Includes 2 site visits for substantial completion inspections (1 visit for FIS and 1 visit for Bldg 846).
- Development of electrical punch list per each substantial completion inspection.

Task 2.7: Final Observation

- Includes 2 site visits for final observation to verify completion of punch list (1 visit for FIS and 1 visit for Bldg 846).

Task 2.8: Short Circuit, Device Coordination & Arc Flash Analysis

- Up-dating the existing power system model in SKM Power Tools for Windows for the modifications to the electrical distribution systems.
- Perform Short Circuit, Device Coordination and Arc Flash Calculations using SKM.
- Review and evaluate device settings on approximately 15 circuit breakers/relays. Replace existing and/or create new Time Current Curves (TCC) for approximately 5 devices.
- Update one-lines, written report and tabular data.

Palm Beach County

2755 Vista Parkway, Suite I-12
West Palm Beach, FL 33411
561.210.9224

www.QuantumElectricalEngineering.com

Broward County

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

Page 3

Mr. Aaron Jackson, P.E.

Electrical Engineering CA Services Fee Proposal for the FIS and Building Resiliency Modifications –
Package 3

- Develop new Arc Flash labels and replace the arc flash labels (approximately 20 labels).
- Modify circuit breaker and relay settings for new and existing equipment as required by the study.

Task 2.9: Project Management

- Excluded – Quantum assumes this effort to be completed by the RS&H

Task 3: Project Closeout

Task 3.1: Record Documents

- Include review of Contractor “Red Line Plan Mark-ups.”
- Includes development of record drawings and specifications based on Contractor “Red Line Plan Mark-ups.”

Task 3.2: Warranty Period Inspection

- Includes 2 site visits for warranty period inspections (1 visit for FIS and 1 visit for Bldg 846).
- Development of electrical warranty discrepancy list per each inspection.

Task 3.3: Project Management and Discipline Coordination

- Excluded – Quantum assumes this effort to be completed by the RS&H

Exclusions and Assumptions

- QUANTUM shall provide one electronic set of record drawings in PDFs and AutoCAD and record specifications in PDF. RS&H shall provide all distribution and printing of all documents to DOA.

Our proposed Lump Sum Fee for Task 1 is:	\$ 1,078.84
Our proposed Lump Sum Fee for Task 2 is:	\$ 30,478.43
Our proposed Lump Sum Fee for Task 3 is:	\$ 1,534.59
Our proposed total Lump-Sum fee is:	\$ 33,091.86

(See Attachment for Breakdown)

Sincerely,



Amy Champagne-Baker, PE
President

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- FIS AND BUILDING RESILIENCY MODIFICATIONS – PACKAGE 3 - CA AND RPR SERVICE!									
QUANTUM ELECTRICAL ENGINEERING, INC.									
SCOPE FEE SUMMARY									
FEE PROPOSAL ELECTRICAL SERVICES TO RS&H 03/01/2023									
	Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15		
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total	Lump Sum	TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Task	TASK COST
Task 1: Bidding and Award Phase Services									
Task 1.1: Pre-Bid Preparation/Meeting									\$0.00
Task 1.2: Inquiries/Clarifications and Addenda									\$0.00
Task 1.3: CMAR GMP Review and Recommendation		2							\$288.46
Task 1.4: Permitting Submittal and Clarifications									\$0.00
Task 1.5: Conformed Document Preparation		1		1					\$213.46
Task 1.6: Pre-Bid Site Visit (1 visit at 4 hr)		4							\$576.92
Task 1.7: Project Management									\$0.00
Subtotal	0	7	0	1	0	0	0		\$1,078.84
Task 2: Construction Administration Services									
Task 2.1: Pre-Construction Conference									\$0.00
Task 2.2: RFI/Substitutions/Submittal Review (12 RFIs/ 25 submittals)		49		6	25	18			\$11,630.60
Task 2.3: Construction Meetings / Site Visits (18 meetings at 1hr ea & 7 site visits at 3 hr ea)		18			39				\$7,771.05
Task 2.4: Change Directives and Change Notices		8	8	8		4			\$2,999.96
Task 2.5: Threshold Inspections									\$0.00
Task 2.6: Substantial Completion Observation and Punchlist (2 visits at 4hrs ea)					8	2			\$1,153.82
Task 2.7: Final Observation (2 visits at 4hrs ea)		8							\$1,153.84
Task 2.8: Short Circuit, Device Coordination & Arc Flash Analysis		24	12	4		8			\$5,769.16
Task 2.9: Project Management									\$0.00
Subtotal	0	107	20	18	72	32	0		\$30,478.43
Task 3: Project Closeout									
Task 3.1: Record Documents		2		2		1			\$473.07
Task 3.2: Warranty Period Inspection (2 visits at 4hrs ea)					8				\$1,061.52
Task 3.3: Project Management and Discipline Coordination									\$0.00
Subtotal	0	2	0	2	8	1	0		\$1,534.59
Grand Total Hours	0	116	20	21	80	33	0		
Grand Total Labor Cost	\$0.00	\$16,730.68	\$2,769.20	\$1,453.83	\$10,615.20	\$1,522.95			\$33,091.86



February 16, 2023

RS & H

10748 Deerwood Park Blvd South,
Jacksonville, FL 32256

Attention: Mr. Aaron Jackson, PE LEED AP

Subject: Proposal for Construction Material Testing & Threshold Inspections Services
PBIA – FIS and Bldg 846 Storm Resiliency Modifications
846 Palm Beach International Airport
West Palm Beach, Florida
TSFGeo Proposal No. 2302-086

Dear Aaron:

As requested, TSFGeo is pleased to submit this proposal for providing Construction Material Testing, and Threshold Inspection Services for the above referenced project. Herein, we provide a general discussion of services that we understand will be required for this project, present our Schedule of Fees for such services.

PROJECT DESCRIPTION

Based on the available information, we understand that the project will consist of a construction a new generator pad and adding a thickened portion of another slab to support wall loads.

QUALIFICATIONS

TSFGeo is a recognized MBE consulting engineering and testing firm providing integrated services in several disciplines, including geotechnical engineering, construction services, materials engineering & testing, roof & pavement consulting, threshold services, and facilities consulting and engineering.

TSFGeo's Florida offices, located in Miami Lakes, West Palm Beach, Orlando, and Tampa, have over 45 engineers, inspectors, and support staff available to assist our clients. Our inspectors are ACL, CTQP and FDOT trained/certified in their respective disciplines, as required by industry standards. Our engineering staff includes registered professional engineers with significant construction experience in South Florida.

TSFGeo has earned a reputation for delivering quality service at reasonable costs. TSFGeo has successfully completed thousands of projects for a variety of industries and organizations,

FIS and Bldg 846 Storm Resiliency Modifications
TSFGeo Proposal No. 2302-086

including private, corporate and industrial clients; medical facilities, civilian and military agencies of the federal, state and local governments, colleges and universities, and local education agencies.

PROPOSED SCOPE OF SERVICES

We recognize that construction projects are built in the "real world" and that proposed schedules do not always work out. Therefore, we appreciate the importance of being able to respond to requests for our services on short notice and of working hours other than the normal schedule, including nighttime work and weekend work.

Based on our understanding of the project requirements, we anticipate that the following testing services will be required during the design and construction phases of the project.

CONSTRUCTION MATERIAL TESTING SERVICES

Sampling and Laboratory Testing

- Provide Modified Proctor, sieve analysis, organic content tests results on structural fill, footings, slab and backfill material, as required;
- Test compressive strength concrete cylinders and grout prisms for walls; and
- Test compressive strength mortar cubes for masonry walls.

Construction Materials Testing

- Perform In-Place-Density testing on structural fill, footings, slab, subgrade, base and backfill material as needed;
- Conduct slump, and temperature testing on concrete;
- Mold compressive strength test cylinders (5 cylinders per set); and
- Mold compressive strength tests prisms (4 prisms per set).

PROFESSIONAL SERVICES

- Provide weekly reports documenting laboratory tests and field data to appropriate parties;
- Provide Senior Engineer to review daily reports, coordination and meetings.

THRESHOLD INSPECTION SERVICES

- Provide Threshold Inspector Representative to observe reinforcing steel in slabs and foundations, and other inspections necessary to comply with permitted construction documents and Threshold inspection plan;
- Provide final compliance letter that all inspected work was performed as per Florida Building Code, project specifications and city requirements.

Please note that our services do not include supervision or direction of the actual work. Job site safety will be the sole responsibility of the contractor. Construction defects not related to structural works, such as water penetration (in roofing, windows, doors, louvers), and building

FIS and Bldg 846 Storm Resiliency Modifications
TSFGeo Proposal No. 2302-086

finishings (interior, exterior), stairs (railings, surface finish, tread/riser ratio) are not part of our scope of work. TSFGeo cannot be responsible for non-structural defects that could lead to structural elements failures down the road.

ESTIMATED COST

The actual cost of our services will be highly dependent on the construction schedule. We propose to provide our services on a unit cost basis; based on the actual work performed and the unit fees attached to this proposal. Invoices will be submitted monthly for the portion of work completed. An estimate for each proposed task is indicated below:


- | | |
|---------------------------------|------------------|
| • Construction Material Testing | \$ 1,120.00 |
| • Threshold Inspection Services | <u>\$ 630.00</u> |

Total Construction Services: \$ 1,750.00

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


Stephen Hey
Engineering Specialist


R. Morgan Dickinson, P.E.
Principal Engineer

Attachments: Unit Fee Schedule
 General Notes
 Authorization
 Terms and Conditions

FIS and Bldg 846 Storm Resiliency Modifications
TSFGeo Proposal No. 2302-086

Fees Breakdown for Construction Materials Testing Services

CONSTRUCTION MATERIAL TESTING SERVICES

ITEM	Quantity	Rate	Units	Extended
Field and Laboratory Testing Services				
SOILS				
In-place density tests (min 5 tests/trip)	10	\$ 25.00	test	\$ 250.00
Modified or Standard Proctor	1	\$ 110.00	test	\$ 110.00
LBR	0	\$ 300.00	test	\$ -
Gradation	0	\$ 75.00	test	\$ -
Organic Content	0	\$ 50.00	test	\$ -
Subtotal				\$ 360.00
CONCRETE/GROUT/MORTAR:				
Engineering Technician (test plastic concrete/grout)	4	\$ 55.00	hour	\$ 220.00
Standby	0	\$ 60.00	hour	\$ -
Compression Testing of Concrete Cylinders	2	\$ 60.00	set	\$ 120.00
Subtotal				\$ 340.00
Professional and Technical Services*				\$ -
Principal Engineer	2	\$ 165.00	hour	\$ 330.00
Project Engineer		\$ 135.00	hour	\$ -
Administrative Services	2	\$ 45.00	hour	\$ 90.00
Subtotal				\$ 420.00
Total Estimated Fees				\$ 1,120.00

THRESHOLD INSPECTION SERVICES

ITEM	Quantity	Units	Rate	Extended
Professional and Technical Services*				\$ -
Principal Engineer/Registered Threshold Inspector	2	\$165.00	hour	\$ 330.00
Threshold Inspector Representative (2 hr min)	4	\$ 75.00	hour	\$ 300.00
Project Engineer		\$115.00	hour	\$ -
Administrative Services	0	\$ 45.00	hour	\$ -
Total Estimated Fees				\$ 630.00

TOTAL CONSTRUCTION SERVICES: \$ 1,750.00

FIS and Bldg 846 Storm Resiliency Modifications
TSFGeo Proposal No. 2302-086

General Notes:

Please note the following procedures will apply to our services:

- 1- Field work hours for inspectors are Monday thru Friday, 8:00AM to 5:00PM.
- 2- We need 24 hours notice by contacting our office (561) 687-8536 prior to any site visit.
- 3- We can accommodate weekend inspections if necessary with a minimum of 48 hours notice.
- 4- Field work beyond 8 hours/day, night time and weekends (OT) will be billed at the regular rate times 1.5
- 5- Stand-by time will be billed at hourly rate listed.

AUTHORIZATION

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

FIS and Bldg 846 Storm Resiliency Modifications

TSFGeo Proposal No. 2302-086

TSFGeo's General Conditions

1. **SCOPE OF WORK:** Work means the specific geotechnical, analytical, testing or other service to be performed by TSFGeo as set forth in TSFGeo's proposal, Client's acceptance of the scope of work and these General Conditions. Additional work ordered by Client shall also be subject to these General Conditions. "Client" refers to the person or business entity ordering the work to be done by TSFGeo. Client shall communicate these General Conditions to each and every third party to whom Client transmits any part of TSFGeo's work. TSFGeo shall have no duty or obligation to any third party greater than that set forth in TSFGeo's proposal, Client's acceptance of TSFGeo's proposal and these General Conditions. The ordering of work from TSFGeo, or the reliance on any of TSFGeo's work, shall represent acceptance of the terms of TSFGeo's proposal and these General Conditions, regardless of the terms of any subsequently issued document.
2. **RIGHT-OF-ENTRY** -The client will provide right-of-entry for TSFGeo and all necessary equipment in order to complete the work. While TSFGeo will take all reasonable precautions to minimize any damage to the property, it is understood by Client that in the normal course of work some damage may occur, the correction of which is not part of this agreement.
3. **DAMAGE TO EXISTING MAN-MADE OBJECTS** -The Client, will provide the location of all underground utilities or obstructions to TSFGeo who, in the prosecution of their work, will take all reasonable precautions to avoid damage or injury to any such subterranean structure or utility. The Owner agrees to hold TSFGeo harmless for any damages to subterranean structures which are not called to TSFGeo's attention and correctly shown on the plans furnished and will reimburse TSFGeo for any expenses in connection with any claims or suits including reasonable attorney fees at the trial and appellate levels.
4. **IN-PLACE MATERIALS TESTING** - TSFGeo will not be responsible for repair or damage to portions of structures designated for in-place materials testing. Repairs can be made for aesthetic reasons if requested in advance of the work to be performed. The cost for labor and materials would be charged.
5. **SAMPLE RETENTION** - TSFGeo will retain all soil and rock samples obtained for geotechnical explorations for 30 days. Samples subjected to Construction Materials and Laboratory testing are disposed of subsequent to testing. Further storage or transfer of samples can be made at Client's expense upon written authorization.
6. **DEFINITION OF RESPONSIBILITY (OBSERVATION SERVICES)** - The presence of our field representative will be for the purpose of providing observation and field testing. Our work does not include supervision or direction of the actual work of the contractor, his employees or agents. The contractor for this project should be so advised.
 - 6.1. The Contractor should also be informed that neither the presence of our field representative or the observation and testing by our firm shall excuse him in any way for defects discovered in his work. It is understood that TSFGeo will not be responsible for the Contractor's job or site safety on his project. That will be the sole responsibility of the contractor.
7. **STANDARD OF CARE** -Service performed by TSFGeo under this Agreement will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions. No other warranty, expressed or implied, is made.
 - 7.1. Client recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys or explorations are made by TSFGeo and that the data, interpretations and recommendations of TSFGeo are based solely on the information available to it. TSFGeo shall not be responsible for the interpretation by others of information developed.
8. **ORAL AGREEMENTS** -No oral agreement, guarantee, promise, representation or warranty shall be binding.
9. **OWNERSHIP OF DOCUMENTS** -All reports, boring logs, field data and notes, laboratory test data, calculations, estimates and other documents prepared by TSFGeo, as instruments of service, shall remain the property of TSFGeo until final payment is received and a letter of copyright transfer been executed.
10. **BASIS OF PAYMENT** -Payment is due within 30 days of date of invoice. Payments not made when due shall bear interest at eighteen (18) percent annum or at the maximum rate allowed by law from the date of the invoice until same is paid.
 - 10.1. If the Client fails to make any payment due to TSFGeo for service and/or expenses within 60 days of date of invoice, TSFGeo may, after giving seven days' written notice to Client, suspend services until all outstanding amounts have been paid to TSFGeo in full. Further, TSFGeo may, in addition to withholding services, or singularly, withhold reports, plans and other documents not paid in full by the Client. In the event that final payment for completed work is not made, TSFGeo shall request that all copyrighted documents which were submitted to client be returned and all information used in project plans be removed from project documents.
 - 10.2. In the event it is necessary to take legal action to effect collection, whether or not litigation is commenced, the Client agrees to reimburse TSFGeo for expenses in connection with any claims or suits, including reasonable attorney's fees, including but not limited to the trial and appellate levels.
 - 10.3. This contract shall be governed by the laws of the State of Florida.
11. **CONSTRUCTION REVIEW** - TSFGeo cannot accept responsibility for any design work unless the work includes services for construction review to determine whether or not the work performed is in substantial compliance with TSFGeo's conclusions and recommendations.
12. **INDEMNIFICATION** -TSFGeo agrees to hold harmless and indemnify Client from and against liability arising out of TSFGeo's negligent performance of the work. Client agrees to indemnify and hold TSFGeo harmless from all liability including all costs, attorney's fees and expenses of defense for any claims by any other person or corporation which may arise out of the performance or breach of this contract for which TSFGeo was not solely negligent.
13. **LIMITATION OF LIABILITY** -The Client/Owner agrees to limit TSFGeo's liability for negligent professional acts, errors or omissions, such that the total aggregate liability of TSFGeo shall not exceed \$50,000 or the total fee for the services rendered on this project, whichever is greater. The Owner further agrees to require the contractor and his subcontractors a similar limitation of liability suffered by the contractor or the subcontractors arising from TSFGeo's negligent professional acts, errors or omissions.
 - 13.1. If Client prefers to have higher limits on professional liability, TSFGeo agrees to increase the limits up to a maximum of \$1,000,000 upon Client's written request at the time of accepting our proposal provided that Client agrees to pay an additional consideration of 5 percent of our total fee. The additional charge for the higher liability limits is because of the greater risk assumed and is not strictly a charge for additional professional liability insurance.
14. **INSURANCE** -TSFGeo represents and warrants that it and its agents, staff and consultants employed by it are protected by Worker's Compensation insurance and Employer's Liability Insurance in conformance with applicable state laws. TSFGeo has such coverage under public liability and property damage insurance policies that TSFGeo deems to be adequate. A Certificate of Insurance can be supplied evidencing such coverage upon request.
 - 14.1. Within the limits and conditions of such insurance, TSFGeo agrees to indemnify and save client harmless from and against any loss, damage or liability arising from any negligent acts by TSFGeo, its agents, staff and consultants employed by it. TSFGeo shall not be responsible for any loss, damage or liability beyond the amounts, limits and considerations of such insurance. TSFGeo shall not be responsible for any loss, damage or liability arising from any acts by clients, its agents, staff and other consultants employed by it.
 - 14.2. Cost of the above coverage is included in our quoted fees. If additional coverage or increased limits of liability are required, TSFGeo will endeavor to obtain the requested insurance and charge separately for costs associated with additional coverage or increased limits.
15. **TERMINATION** -This agreement may be terminated by either party upon seven days written notice in the event of substantial failure by the other party to perform in accordance with the terms thereof. Such termination shall not be effective if the substantial failure has been remedied before expiration of the period specified in the written notice. In the event of termination, TSFGeo shall be paid for services performed to the termination notice date plus reasonable termination expenses.
 - 15.1. In the event of termination or suspension for more than three months, prior to completion of all reports contemplated by this Agreement, TSFGeo may complete a report on the services performed to the date of notice of termination or suspension. The expenses of termination or suspension shall include all direct costs for TSFGeo in completing such analyses, records and reports.
16. **CLIENT'S OBLIGATION TO NOTIFY TSFGeo** - Client represents and warrants that it has advised TSFGeo of any known or suspected hazardous materials or conditions, utility lines and pollutants at any site at which TSFGeo is to do work hereunder, and unless TSFGeo has assumed in writing the responsibility of locating subsurface objects, structures, lines or conduits, Client agrees to defend, indemnify and save TSFGeo harmless from all claims, suits, losses, costs and expenses, including reasonable attorney's fees as a result of personal injury, death or property damage occurring with respect to TSFGeo's performance of its work and resulting to or caused by contact with subsurface or latent objects, structures, lines or conduits where the actual or potential presence and location thereof were not revealed to TSFGeo by Client.
17. **HAZARDOUS MATERIALS** -This agreement shall not be interpreted as requiring TSFGeo to assume the status of an owner, operator, generator, storer, transporter, treater or disposal facility as those terms appear within RCRA or within any Federal or State statute or regulation governing the generation, transportation, treatment, storage and disposal of pollutants.

Initial _____

EXHIBIT A-4 – Task III Services

TASK III SERVICES

Level 3 Tasks – Miscellaneous Planning and Engineering Services: Work to be completed under Level 3 Tasks will be issued per the level of authority contained in PPW CW-F-050, by way of a separate proposal or task authorization, as described in the original Consulting Agreement (R-2019-0612).

TASK LEVEL / NO.	DESCRIPTION	BUDGET
Task III-19-DOA-R-001	Misc. AEP and Construction Consulting Services Amendment #8	\$ 0.00
Sub-total (Level 3)		\$ 0.00

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-II: Summary of Fees

This Amendment #8, as described herein, consists of multiple tasks. As summarized below, these initial efforts have an overall budget of: \$1,106,284.38.

LEVEL 1 TASKS:

TASK Level / No.	DESCRIPTION	LUMP SUM	NOT-TO-EXCEED	REIMBURSABLE EXPENSES	TOTAL
I-23-PBI-R-027:	Concourse B & C PC Air Construction Administration	\$ 311,646.41	\$ 54,844.78	\$ 33,118.00	\$ 399,609.19
I-23-PBI-R-030:	Elevator Modernization: Design and Bidding & Award Services	\$ 532,306.76	\$ -	\$ 7,914.00	\$ 540,220.76
I-23-PBI-R-034:	FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services	\$ 148,608.43	\$ 1,750.00	\$ 16,096.00	\$ 166,454.43

LEVEL 3 TASKS:

TASK LEVEL / NO.	DESCRIPTION	TOTAL
Task III-19-DOA-R-001	Misc. AEP and Construction Consulting Services Amendment #8	\$ -
Grand Total (Amendment #8)		\$ 1,106,284.38

EXHIBIT B-II: Schedule of Payments

The Scope of Work to be completed by CONSULTANT as defined in Exhibit “A” consist of specific completion phases which shall be clearly identified on phase-by-phase basis upon submission to the COUNTY of certain “deliverables”¹ as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following schedule of payment.

The following is a list of projects in the Work Program #2: Amendment #8:

LEVEL 1 TASKS:

Task I-23-PBI-R-027	<u>Concourse B & C PC Air Construction Administration</u>
Compensation:	\$ 399,609.19
Task I-23-PBI-R-030	<u>Elevator Modernization: Design and Bidding & Award Services</u>
Compensation:	\$ 540,220.76
Task I-23-PBI-R-034	<u>FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services</u>
Compensation:	\$ 166,454.43

LEVEL 3 TASKS:

Task III-19-DOA-R-001	Misc. AEP and Construction Consulting Services Amendment #8
Duration:	As required in accordance with specific Task Authorizations
Compensation:	\$ -

TOTAL = \$ 1,106,284.38

1. “Deliverables” shall be defined as progress reports, prepared maps, bid documents, completed drawings, specific reports, work plans, documentation of meetings attended, assessment study reports, analysis reports, summary reports, recommendation reports and related draft reports and verifiable deliverables.

EXHIBIT C – PROPOSED SCHEDULES

Task I-23-PBI-R-027	<u>Concourse B & C PC Air Construction Administration</u> Duration: 280 Working Days (~390 Calendar Days)
Task I-23-PBI-R-030	<u>Elevator Modernization: Design and Bidding & Award Services</u> Duration: 175 Working Days (~244 Calendar Days)
Task I-23-PBI-R-034	<u>FIS and Building 846 Storm Resiliency Modifications - Package 3: Bidding and Award / Construction Administration Services</u> Duration: 300 Working Days (~215 Calendar Days)

EXHIBIT D – DISADVANTAGED BUISINESS ENTERPRISE COMPLIANCE

Table D-1 summarizes the estimated fee for each of our team members that are certified DBE firms for Amendment 8.

Table D-1: DBE Firms, Scheduled Payment, Scheduled % of Fee

Firm	Amendment 8 Totals	% of Amendment 8
Connico	\$ 64,200.00	5.80%
Tierra South Florida	\$ 1,750.00	0.16%
Quantum	\$ 177,962.21	16.09%

TOTALS

THE REST OF THIS PAGE IS INTENTIONALLY LEFT BLANK.

Table D-2 summarizes the estimated fee for each of our team members that are certified DBE firms for the Total Contract.

Table 2: DBE Firms, Scheduled Payment, Scheduled % of Total Fee

Firm	Base (R2019-0612) Totals	Amendment 1 (R2020-0414) Totals	Amendment 2 (R2020-1607) Totals	Amendment 4 (R2021-0844) Totals	Amendment 5 (R2022-0263) Totals	Amendment 6 (R2023-0103) Totals	Amendment 7 (R2023-) Totals	Amendment 8 Totals	Total Fees	% of Total Contract
Colome'	\$ 73,966.80	\$ 164,286.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 238,253.21	1.63%
Tierra South Florida	\$ 28,715.00	\$ 26,985.00	\$ 29,240.00	\$ -	\$ 3,165.00	\$ -	\$ 17,175.00	\$ 1,750.00	\$ 107,030.00	0.73%
Brown & Phillips	\$ 20,021.45	\$ 18,202.62	\$ 18,979.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,203.60	0.39%
CECOS	\$ -	\$ 5,403.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,403.70	0.04%
Mobio	\$ 161,533.98	\$ -	\$ 176,600.00	\$ 323,400.00	\$ -	\$ -	\$ -	\$ -	\$ 661,533.98	4.51%
Lakdas-Yohalem	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Connico	\$ 90,000.00	\$ 9,300.00	\$ 69,000.00	\$ -	\$ -	\$ -	\$ -	\$ 64,200.00	\$ 232,500.00	1.59%
Digital Building Services (3D Point Scan)	\$ -	\$ -	\$ 183,689.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,689.00	1.25%
Master Consulting Engineers	\$ -	\$ 83,865.96	\$ 4,960.00	\$ 32,078.44	\$ -	\$ -	\$ -	\$ -	\$ 120,904.40	0.83%
Quantum	\$ -	\$ 181,491.77	\$ 1,229,569.80	\$ 149,029.00	\$ 542,155.33	\$ 548,241.35	\$ 96,356.58	\$ 177,962.21	\$ 2,927,390.64	19.98%
CRJ	\$ -	\$ 117,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 117,500.00	0.80%
TOTALS	\$ 374,237.23	\$ 607,035.46	\$ 1,712,038.33	\$ 504,507.44	\$ 545,320.33	\$ 548,241.35	\$ 113,531.58	\$ 243,912.21	\$ 4,651,408.53	31.74%

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

LOI/SOQ Project Description: Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services for Palm Beach County Department of Airports

Name of Respondent: RS&H, Inc.

Change Order/Task/Amendment No. (if applicable): Amendment No 8

Contact Person: Pat Hargrove

E-mail Address: pat.hargrove@rsandh.com

Address: 10748 Deerwood Park Blvd S, Jacksonville FL 32256

Phone No.: 904-256-2437 Fax No: 800-464-4358

Name, Address & Phone No. of DBE Firm	Description of Type of Work	Classification (Check applicable box)	Percentage of DBE Participation			
			Black	Hispanic	Women	Other (Please Specify)
Quantum Electrical	Electrical Engineering Design Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	16.09 %	_____ %
Tierra South Florida	Threshold Inspection / Material Testing Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	0.16 % (Asian / Pacific)
Connico	Cost Estimating	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	5.80 % (Asian / Pacific)
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %

Total Percentage of DBE Participation: 22.05 %

Notes:

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

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

By: Pat Hargrove
 Signature
 Pat Hargrove, AIA NCARB, Vice President, Aviation
 Print Name/Title of Person Executing on Behalf of the Respondent

Date: 3/14/2023

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

LOI/SOQ Project Description: Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services for Palm Beach County Department of Airports

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

Name of Prime Respondent: RS&H, 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 Engineering Design Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 16.09 %

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:

(Name of Subcontractor) _____ % ☐ DBE Certified
(Portfolio 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: Amy Champagne Baker
Signature

Date: 3/13/2023

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

LOI/SOQ Project Description: Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services for Palm Beach County Department of Airports

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

Name of Prime Respondent: RS&H, Inc.

Name of DBE Firm: Tierra South Florida, Inc.

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

☐ Black ☐ Hispanic ☐ Women ☒ Other (Please Specify) Asian / Pacific
☐ 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):

Material Testing / Threshold Inspection Services

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 0.16 %

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:

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

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

Tierra South Florida, Inc.

Printed Name of DBE Subcontractor

By:

Morgan Dickinson
Signature

Date:

3/13/2023

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

LOI/SOQ Project Description: Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional Services for Palm Beach County Department of Airports

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

Name of Prime Respondent: RS&H, Inc.

Name of DBE Firm: Connico, LLC

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

☐ Black ☐ Hispanic ☐ Women ☒ Other (Please Specify) Asian / Pacific
☐ 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):

Cost Estimating

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 5.80 %

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:

(Name of Subcontractor) _____ % ☐ DBE Certified
(Portfolio 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.

Connico, LLC

Printed Name of DBE Subcontractor

By:

Signature

Date: 3/13/2023

Attachment No. 2

Airport General Consulting Professional Services - 2018					
RFP #: DOA-18-2A - Facilities & Systems					
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	45.00%	40	667	2.70%
Construction Management	236220	10.00%	239	815	2.93%
Testing Services	541380	2.50%	12	92	0.33%
Land Surveying & Mapping	541370	2.50%	24	144	0.42%
Planning Services	541320	10.00%	15	166	0.90%
Other Consulting Services	541690	0.00%	64	571	0.00%
Total		100.00%			10.75%

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