



**II. FISCAL IMPACT ANALYSIS**

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

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	\$395,406				
Operating Costs					
External Revenues (Grants)	(\$113,749)				
Program Income (County)					
In-Kind Match (County)					
<b>NET FISCAL IMPACT</b>	<b>\$281,657</b>				

# ADDITIONAL FTE POSITIONS (Cumulative) \_\_\_\_\_

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

Budget Account No: Fund 4111 Department 121 Unit A346-388 Object 6211  
A436-485 6504  
 Reporting Category \_\_\_\_\_

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

Approval of this item will result in an increase of \$395,406.12 in services related to RS&H; which is in the current budget. A346 = \$227,496.74 (ARFF) and A436 = \$167,909.38 (GPU & RPR).  
 Grant and PFC reimbursement will be determined as invoices come in.

C. Departmental Fiscal Review: Walter Duncan

**III. REVIEW COMMENTS**

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

ASD 10/13/23  
 OFMB GA 10/18  
 Edw 10-13-23  
Archie Jacobson  
 Contract Dev. and Control  
 Tom 10/25/23 10/25/23

**B. Legal Sufficiency:**

Anne Delmont 10-26-23  
 Assistant County Attorney

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

REVISED 11/17

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

<b>Airport General Consulting Professional Services - 2018</b>								
<b>RFP #: DOA-18-2A - Facilities &amp; Systems</b>								
<b>Date: November 29, 2017</b>								
<b>Marketplace: BC, PBC, MDC</b>								
<b>DBE Project Goal: 18% - adjusted for past participation</b>								
<b>NAICS Description</b>	<b>NAICS Code</b>	<b>Estimated Percentage of</b>	<b>Available DBE</b>	<b>Total Available</b>	<b>Weighted Percentage</b>			
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%			
<b>Total</b>		<b>100.00%</b>			<b>10.75%</b>			

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

24-0110

BOARD OF COUNTY COMMISSIONERS  
PALM BEACH COUNTY, FLORIDA  
BUDGET TRANSFER

Advantage Document Numbers

BGRV:

BGEX: 121-100523\*55

FUND 4111 Airport Improvement & Development Fund

ACCT.NUMBER	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED As of 10/05/23	REMAINING BALANCE
<b>REVENUES/EXPENDITURES</b>								
121-A436-6504	lotb Non Infrastructure	3,382,726	3,196,152	167,910	0	3,364,062	0	3,364,062
121-A900-9909	Reserves Improvement Program	17,216,760	15,956,992	0	167,910	15,789,082	0	15,789,082
<b>Total Receipts and Balances</b>		<b>217,226,377</b>	<b>211,631,047</b>	<b>167,910</b>	<b>167,910</b>	<b>211,631,047</b>		

Signatures & Dates

Office of Financial Management & Budget  
INITIATING DEPARTMENT/DIVISION

*Kenneth Hall* 10/5/23

Administration/Budget Department Approval

*ASD* 10/13/23

OFMB Department - Posted

By Board of County Commissioners  
At Meeting Of

Tuesday, November 7, 2023

Deputy Clerk of the County  
Board of County Commissioners  
*Joseph A. Bruzzo*

STATE OF FLORIDA, COUNTY OF PALM BEACH  
JOSEPH ABRUZZO, Clerk of the Circuit Court  
Comptroller certify this to be a true and correct copy  
of the original filed in my office on **NOV 07 2023**  
at West Palm Beach, Florida  
By: *Joseph A. Bruzzo* Deputy Clerk of the County

2F66

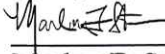
CERTIFICATION OF  
AUTHORIZING SIGNATORY FOR  
PALM BEACH COUNTY CONTRACTS

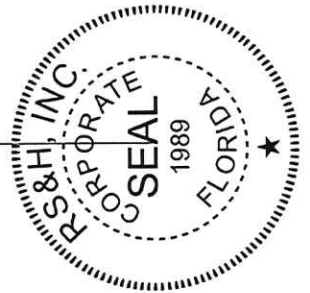
I, Marlon F. Starr, Executive Vice President, Chief Legal Officer, and Corporate Secretary of RS&H, Inc., a Florida Corporation (the "Corporation"), hereby certify that:

- (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. 10 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
RS&H, INC.  
FOR  
FOR CONSULTING / PROFESSIONAL SERVICES  
AT  
PALM BEACH COUNTY AIRPORTS**

**R2023 1595**

This Amendment No. 10 to the Contract is made as of the \_\_\_\_\_ day of **NOV 07 2023**, 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.  
OCTOBER 2023

AMENDMENT 10 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-2023-0447) 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 18, 2023, the COUNTY entered into an Amendment No. 8 (R-2023-0532) 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 October 17, 2023, the COUNTY entered into an Amendment No. 9 (R-2023-1540) 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 Three-Hundred Ninety-Five Thousand, Four Hundred Six Dollars and Twelve Cents (\$395,406.12) for the services in Amendment No. 10 to the original Contract.
2. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

IN WITNESS WHEREOF, the parties have caused the Tenth Amendment to the Contract to be signed by the Mayor of the Board of County Commissioners and the Seal of said Board to be fixed hereto and attested by the Clerk of said board, and the CONSULTANT, 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. **R2023 1595**

ATTEST:

PALM BEACH COUNTY, FLORIDA **NOV 07 2023**  
BOARD OF COUNTY COMMISSIONERS

JOSEPH ABRUZZO  
CLERK OF THE COUNTY COURT  
AND COMPTROLLER

By: *Joseph Abruzzo*  
Deputy Clerk

By: *Gregg K. Weiss*  
Gregg K. Weiss, Mayor



WITNESS:

CONSULTANT:

DocuSigned by:  
*Beth Church*  
FEECDFE1BFF4E0  
SIGNATURE

RS&H, Inc.  
COMPANY NAME

Beth Church  
Name (type or print)

DocuSigned by:  
ANDREW WHEELER  
77B454D6815941B...  
Signature

Andrew P. Wheeler  
Name (type or print)

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

Executive Vice President  
Title

BY: *Anne Defant*  
County Attorney

(Corporate Seal)

APPROVED AS TO TERMS  
AND CONDITIONS

By: *Laura Baker*  
Department Director



## **AMENDMENT NO 10 INDEX**

### **CERTIFICATE OF INSURANCE**

#### **EXHIBIT A: AMENDMENT NO. 10**

EXHIBIT A-1 – Task I-23-PBI-R-036: New ARFF Facility – Phasing Services

EXHIBIT A-2 – Task I-23-PBI-R-037: 400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule

EXHIBIT A-3 – Task III Services

#### **EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS**

EXHIBIT B-I: Summary of Fees

EXHIBIT B-II: Schedule of Payments

#### **EXHIBIT C – PROPOSED SCHEDULES**

#### **EXHIBIT D – DISADVANTAGED BUSINESS 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.	<b>Modified</b>	Compliant					DOA 18-2A	Consulting/Professional Services
		A+g , XV	Zurich American Insurance Company	BAP146956401	6/28/2023	6/28/2024	Auto Liability		
		A+g , XV	American Guarantee and Liability Insurance Company	AUC146955801	6/28/2023	6/28/2024	Excess Liability		
		Ag , XV	The Continental Insurance Company	7039681430	6/28/2023	6/28/2024	Excess Liability		
		A++g , XV	Travelers Property Casualty Company of America	EX6T35064A23NF	6/28/2023	6/28/2024	Excess Liability		
		A+g , XV	Zurich American Insurance Company	GLO146640901	6/28/2023	6/28/2024	General Liability		
		A , XV	Lloyds Underwriters (Canada Branch)	B0146LDUSA2304894	6/28/2023	6/28/2024	Professional Liability		
		A+g , XV	American Guarantee and Liability Insurance Company	WC041147101	6/28/2023	6/28/2024	Workers Comp		

**Risk Profile :** Standard - Professional Services

**Required Additional Insured :** Palm Beach County Board of County Commissioners

**Ownership Entity :**

**EXHIBIT A: AMENDMENT NO. 10**

This Amendment No 10 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. The Airport has requested that RS&H (Consultant), under the Agreement, provide a scope and fee for additional services needed to continue performance of on-going services related to tasks authorized prior to expiration of contract.

**CERTIFICATE OF INSURANCE**

**EXHIBIT A: AMENDMENT NO. 10**

EXHIBIT A-1 – Task I-23-PBI-R-036: New ARFF Facility – Phasing Services

EXHIBIT A-2 – Task I-23-PBI-R-037: 400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule

EXHIBIT A-3 – Task III Services

**EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS**

EXHIBIT B-I: Summary of Fees

EXHIBIT B-II: Schedule of Payments

**EXHIBIT C – PROPOSED SCHEDULES**

**EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE**

**EXHIBIT A-1 – Task I-23-PBI-R-036: New ARFF Facility – Phasing Services**

***New ARFF Facility –  
Phasing Services  
Scope of Work***

Version 1.0

September 21, 2023

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

Task Authorization No. I-23-PBI-R-036

RS&H Project No.: TBD

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

***RS&H***

## 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 additional services needed to continue performance of on-going services related to DOA Task I-20-PBI-R-013, which was authorized prior to expiration of contract.

The RS&H team has been asked to provide Architectural and Engineering Design Services for splitting deliverable of Task 6.2: Permit Document Submittal of PBC DOA Task I-20-PBI-R-013 into two (2) separate CMAR packages (Project) due to funding and phasing of other on-going Projects at the Airport. PBC DOA Task I-20-PBI-R-013 Task 6.1 100% Construction Documents is complete. Package 1 is assumed to be bid / permitted within (6) months of Task I-23-PBI-R-036 NTP and Package 2 is assumed to be bid / permitted with (1) one year of Task I-23-PBI-R-036 NTP.

The two packages will separate and be assigned designators of 1 or 2 to operate as independent and complete construction document sets. The intent of splitting the completed project is to allow for an enabling package that will install the sitework, building foundations, and below grade utilities necessary to allow for a more seamless phasing approach for the building construction.

The following outlines the scope and effort of separating the package into two independent construction document packages and their additional related items that are required for the package division. Due to separating the packages, additional design will be needed due construction phasing which are identified in as "Additional Services" below. "Additional Services" below also includes new requests by the Owner to be added to the Project that was not capture under previous tasks as well as updating the design documents due to the Code change.

### **Package 1 Scope of Work**

Construction documents and specifications for this package include the following:

- Sitework
  - All sitework including sitework demolition, geometry plan, grading and drainage plans, sidewalks, public and secured parking lot paving, and water and sewer plans. AOA fence and temporary fence (Temporary fence along perimeter road between AOA permanent fence). Temporary fence to be removed in Package 2. Temporary fence provided to allow for site to be landside to facilitate construction. Lightpoles, lightpole foundations and ground, power raceways. Flag pole, flag pole foundation

and anchor rods. Building site grounding. Roadway markings and certain apron marking will be included in this package.

#### Gate V-27

- Sitework and fence noted in previous bullet point, sliding gate and gate operator, power raceways and feeders, communication raceways and cabling to support new card readers on relocated card reader posts, and new cameras on relocated camera poles, relocated lightpole and grounding.
- ARFF secured parking lot
  - Power raceways
  - Gate operator foundations
  - Bollards and bollard foundations
  - Telecom raceway to south light pole for CCTV – will revise to concrete encased ductbank to allow for Package 2 construction equipment and not damage below grade utility.
- Dumpster and FPL Utility Pad Area
  - Slab-on-grade
  - Walls and foundations
  - Gates and Gate foundations
  - Electrical raceway to building
  - Removable bollards and bollard foundations
- Fuel and Generator Area
  - Slab-on-Grade and Equipment pads
  - Bollards and bollard foundations
  - Electrical raceways to building
  - Fuel tanks and above / below grade piping
  - Equipment grounding
  - Generator
  - Temporary site fence protecting fuel and generator equipment (to be removed in package 2)
- Building
  - Building foundations included rebar out of grade for future lap splice of reinforcement in Package 2 CMU / Concrete walls. Note that steel columns for back porch will be revised to be on concrete pedestals to grade and anchor rods for steel columns / base plates that will be installed in Package 2.
  - Below grade utility raceways and piping within footprint of building and those tying into site utilities (including but not limited to sanitary piping, storm piping, below grade water supply, telcom and power raceways, etc).
  - Exterior concrete on grade (example: back porch)



- Landscape
  - Demo of existing trees. Mitigation will be provided prior to close-out of Package 2.
  - All proposed landscape areas/exposed soil to receive bahia seed/sod and be hand watered until established. Contractor shall re-seed/sod as required to have 100% coverage.
  - Partial site irrigation: establish connection to water source, install all main line, control wires, zone valve stub-outs, and required sleeving under hardscape areas per plan. Site adjacent to building to be in Package 2 and limits will be coordinated with CMAR during Package 1 development.
- Project was designed under Building Code 7th Edition (2020). Adoption of Florida Building Code 8th Edition (2023) will occur on January 1<sup>st</sup>, 2024; thus, Package 2 will be reviewed and updated as required to comply with new adopted codes. – **Additional Services**

### **Package 2 Scope of Work**

Construction documents and specifications for this package include all work in Task I-20-PBI-R-013 Task 6.1 100% Construction Document not included in Package 1 including the following:

- Sitework
  - ARFF secure site fence. Package 2 will remove temporary AOA fence installed in Package 1. Power feeders to site lightpoles not powered in Package 1. Parking lot markings and certain apron markings will be included in this package.
- Gate V-27
  - All work included in Package 1.
- ARFF secured parking lot
  - Power feeders
  - Gate operator
  - Sliding Gate
  - Sliding Gate associated telecom
- Dumpster Area
  - All work in Package 1 UON
  - Electrical feeders to building
- Fuel and Generator Area
  - All work in Package 1 UON
  - Removal of temporary site fence protecting fuel and generator equipment installed in Package 1
- Building
  - All building work not included in Package 1 including slab-on-grade and all above ground building components including electrical and mechanical equipment not specifically noted in Package 1
- Landscape

- Install all proposed landscape per plan (Ex. New trees and shrubs).
- Finish irrigation installation including all lateral lines, heads, valves, controller, etc. not installed with Package 1.
- Project was designed under Building Code 7th Edition (2020). Adoption of Florida Building Code 8th Edition (2023) will occur on January 1<sup>st</sup>, 2024; thus, Package 2 will be reviewed and updated as required to comply with new adopted codes. – **Additional Services**

This effort will impact the following professional disciplines and drawings:

<u>Consultant/Subconsultant</u>	<u>Involvement</u>
RS&H, Inc.	Cover and Sheet Index, Civil Site - Airside, Life Safety, Architecture, Interiors, Mechanical, Plumbing, Fire Protection (including smoke evaluation) Electrical – Power, Lighting, Lightning Protection, Fire Alarm, Low Voltage – Security, Paging, Telecom
Keith and Associates, Inc.	Landscape Engineering
CRJ & Associates, Inc.	Civil Site - Landside
Master Consulting Engineers, Inc.	Structural Engineering

## II PROJECT TASKS

### Task 1.1 Two (2) Bid / Permit Document Packages

#### Task 1.1.1 Bid / Permit Package Development - Split

Task includes splitting the deliverable of Task 6.2 Permit Documents (Drawings and Project Manuals) of Task I-20-PBI-R-013 into (2) deliverables for the elements associated with each Package noted above.

Separation of the Project into (2) two packages (ie a Pkg 1 and Pkg 2) will require the Consultant to revise the drawings to review the scope, determine and split the scope into correct packages, and any additional efforts to duplicate backgrounds and drawings for each Package. Task also includes duplicating the Project Manual and assigning specifications (and duplicating specifications if needed) into the correct Package. Only the additional effort to create drawings for phasing the packages is captured under this Task.

The Consultant's sheet counts to create Package 1 is as follows:

- RS&H – 76 sheets
- Keith – 18 sheets
- CRJ – 7 sheets
- MCE – 20 sheets

The Consultant's sheet counts to create Package 2 is as follows:

- RS&H – 147 sheets
- Keith – 6 sheets
- CRJ – 0 sheets
- MCE– 23 sheets

The Consultant will have to create 86 duplicate sheets as follows:

- RS&H – 60 sheets
- Keith – 6 sheets
- CRJ – 0 sheets
- MCE – 20 sheets

*Task 1.1.2 Bid / Permit Package Development – Package 1 & 2 Additional Service Items*

All additional efforts for developing and creating documentation shall be included under this task for "Additional Services" identified in Section I Project Description. The documentation for this scope of work will be included in the Package 1 & 2 documentation.

*Task 1.1.3 Bid / Permit Package Quality Control Review*

The Consultant shall conduct in-house quality control reviews of this 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 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
- » Discipline Coordination Review – an interdisciplinary review by an Architect or Engineer to ensure coordination of elements between disciplines

*Task 1.1.4 Bid Package Submittals – Additional Services*

Package 1 & 2: Consultant will prepare and submit the following documents to CMAR and PBC DOA to be used for bidding. Documents will be noted "NOT FOR CONSTRUCTION, FOR BIDDING ONLY".

- » Drawings (.pdf)
- » Project Manual (.pdf)

*Task 1.1.5 Permit Package Submittal and Permitting*

a. Permit Package Submittal

Package 1 & 2: Consultant will submit electronic signed and sealed documents to CMAR and PBC DOA to be submitted to Permitting Agencies (PZB and SFWMD). Documents will be noted "FOR CONSTRUCTION".

- » Drawings (.pdf)
- » Project Manual (.pdf)

b. Permitting

Package 1 & 2: Task includes additional effort for (2) separate permitting processes: responding to permitting questions and comments and revising the necessary portions of the Contract Documents for approval by Permitting Agency to assist in obtaining permits.

**Task 1.2 Bidding and Award Services - Additional Services**

Following the completion of the construction document phase, these efforts will occur during the process of bidding. Task I-20-PBI-R-013 excluded Phase 4 Bidding and Award Services. Specific tasks are as follows:

Task 1.2.1 CMAR Inquiries/Clarifications and Addenda

Package 1 & 2: 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 1.2.2 CMAR GMP Review and Recommendation

Package 1 & 2: The Consultant shall review the CMAR GMP and provide comments and / or recommendation of acceptance for each GMP. Review is limited to initial GMP review and (1) revision review.

Task 1.2.3 Conformed Documents

Package 1 & 2: 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 1.3 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**

Meetings and Presentations are excluded.

**IV PROPOSED PROJECT SCHEDULE**

See Attachment A.

## V DELIVERABLES

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

Task #	Title	Information Included	Format
1.1.4	Package 1: Bid Package	Drawings and Project Manual	.pdf
	Package 2: Bid Package	Drawings and Project Manual	.pdf
1.1.5(a)	Package 1: Permit Package	Drawings and Project Manual	.pdf
	Package 2: Permit Package	Drawings and Project Manual	.pdf
1.1.5(b)	Package 1: Permitting	Permit Responses	TBD
	Package 2: Permitting	Permit Responses	TBD
1.2.1	Package 1: CMAR Bidding RFI's	Bidding Responses	TBD
	Package 2: CMAR Bidding RFI's	Bidding Responses	TBD
1.2.2	Package 1: GMP Review	Recommendation	TBD
	Package 2: GMP Review	Recommendation	TBD
1.2.3	Package 1: Conformed Documents	Drawings and Project Manual	.pdf
	Package 2: Conformed Documents	Drawings and Project Manual	.pdf

## VI ASSUMPTIONS AND EXCLUSIONS

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

- » Package 1 and Package 2 will be bid and permitted on or after January 1, 2024.
- » Package 1 and Package 2 will be bid and permitted at different times.

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

- » Fees associated with permitting

## VII PROFESSIONAL SERVICES FEE AND FEE TYPE

For Lump Sum fee:

RS&H will provide the above referenced services for a Fixed Lump Sum Fee of **\$227,496.74**. See Attachment for a breakdown of costs.

**ATTACHMENT A: SCHEDULE**

Schedule is preliminary and shall be adjusted upon receipt of NTP.

Task Name	Calendar Days	Duration	Start	Finish
<b>Task 1.1</b>				
Phase NTP (assumed)	1 cal days	0 days	11/14/23	1/14/23
1.1.1 & 1.1.2 - Bid / Permit Pkg Development	56 cal days	40 days	11/14/23	1/8/24
1.1.3 - Bid / Permit Pkg Quality Review	14 cal days	32 days	12/11/23	1/24/24
1.1.4 - Bid / Permit Pkg Submittals	1 cal days	20 days	12/27/23	1/26/24
Schedule below is Assumed and to be coordinated with Owner / CMAR at time closer to work				
<b>Bidding</b>				
<b>Package 1</b>				
Advertisement	1 cal days	0 days	1/24/24	1/24/24
Bidding Period	56 cal days	40 days	1/25/24	3/20/24
GMP	1 cal days	0 days	3/20/24	3/20/24
PBC Board #1	1 cal days	0 days	3/28/24	3/28/24
PBC Board #2	1 cal days	0 days	4/25/24	4/25/24
<b>Package 2</b>				
Advertisement	1 cal days	0 days	2/21/24	2/21/24
Bidding Period	56 cal days	40 days	2/22/24	4/17/24
GMP	1 cal days	0 days	4/17/24	4/17/24
PBC Board #1	1 cal days	0 days	4/25/24	4/25/24
PBC Board #2	1 cal days	0 days	5/23/24	5/23/24
<b>Permitting</b>				
<b>Package 1</b>				
Assumed	54 cal days	40 days	1/1/24	2/23/24
<b>Package 2</b>				
Assumed	54 cal days	40 days	1/29/24	3/22/24

## ATTACHMENT B: FEE BREAKDOWN

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

RS&H, INC.  
 New ARFF Facility - Phasing Services

<u>Task</u>	<u>Description</u>	<u>Hours</u>	<u>Fee</u>
1.1	Two (2) Bid / Permit Design Packages		
1.1.1	Bid / Permit Package Development - Split	79	\$ 14,831.11
1.1.2	Bid / Permit Package Development - Additional Service Items	161	\$ 24,224.99
1.1.3	Bid / Permit Package Quality Control Review	93	\$ 15,780.46
1.1.4	Bid Package Submittal	61	\$ 10,505.85
1.1.5.a	Permit Package Submittal	66	\$ 11,138.54
1.1.5.b	Permitting	166	\$ 27,772.86
1.2	Bidding and Award Services		
1.2.1	CMAR Inquiries/Clarifications and Addenda	103	\$ 15,840.74
1.2.2	CMAR GMP Review and Recommendation - Pkg 1 & Pkg 2	23	\$ 5,436.45
1.2.3	Conformed Documents	38	\$ 6,561.40
1.3	Project Management and Project Coordination		
	Project Management	8	\$ 2,870.85
		<b>Subtotal RS&amp;H Labor Hours</b>	<b>798</b>
		<b>Subtotal RS&amp;H Labor Fee</b>	<b>\$134,963.25</b>
<u>Subconsultants</u>			
	Keith and Associates	213	\$26,496.15
	CRJ and Associates	74	\$10,087.04
	Master Consulting	622	\$55,950.30
		<b>Subtotal Subconsultant Labor Hours</b>	<b>909</b>
		<b>Subtotal Subconsultant Fee</b>	<b>\$92,533.49</b>
<u>Expenses</u>			
		<b>Subtotal Expenses</b>	<b>\$0.00</b>
		<b>Total Project Fee</b>	<b>\$227,496.74</b>



New ARFF Facility - Phasing Services

	HOURS								HOURS	TOTAL COST (\$)	
	Principal	Sr. Project Manager	Senior Architect	Architect	Intern Architect	Senior Engineer	Engineer	Administrative Assistant			
	\$366.79	\$300.80	\$257.17	\$131.92	\$69.25	\$258.47	\$158.83	\$633.27			
<i>Burdened hourly rate</i>											
<b>Task 1.1</b>	<b>Two (2) Bid / Permit Document Packages</b>										
1.1.1	Bid / Permit Package Development - Split										
	Project Manager	2	3							5	\$ 1,635.98
	BIM							4		4	\$ 1,033.88
	Civil							7	13	20	\$ 3,874.08
	Life Safety			1	1	3				5	\$ 656.84
	Architecture			1	1	5				7	\$ 835.34
	Interiors			1	1	3				5	\$ 656.84
	Mechanical							1	2	3	\$ 576.13
	Plumbing							2	5	7	\$ 1,311.09
	Fire Protection							1	5	6	\$ 1,052.62
	Electrical							4	6	10	\$ 1,986.86
	Low Voltage							1	6	7	\$ 1,211.45
1.1.2	Bid / Permit Package Development - Additional Service										
	Civil										
	Life Safety			2	5	10	6			23	\$ 3,617.26
	Architecture			5	20	42				67	\$ 7,672.75
	Interiors			2	5	10				17	\$ 2,066.44
	Mechanical							4	7	11	\$ 2,145.69
	Plumbing							7	13	20	\$ 3,874.08
	Fire Protection							2	2	4	\$ 834.60
	Electrical							9	6	15	\$ 3,279.21
	Low Voltage							1	3	4	\$ 734.96
1.1.3	Bid / Permit Package Quality Control Review										
	Independent Technical Peer Review										
	Civil							2	6	8	\$ 1,469.92
	Life Safety			2	3	3				8	\$ 1,177.85
	Architecture			2	3	17				22	\$ 2,427.35
	Interiors			2	3	3				8	\$ 1,177.85
	Mechanical							4	7	11	\$ 2,145.69
	Plumbing							4	7	11	\$ 2,145.69
	Fire Protection							2	5	7	\$ 1,311.09
	Electrical							2	3	5	\$ 993.43
	Low Voltage							3	6	9	\$ 1,728.39
	Discipline Coordination Review										
	Project Manager			4						4	\$ 1,203.20
1.1.4	Bid Package Submittal										
	Package 1: Bid Package Submittal										
	Project Manager			1						1	\$ 300.80
	Civil							1	2	3	\$ 576.13
	Life Safety			1		3				4	\$ 524.92
	Architecture			1		3				4	\$ 524.92
	Interiors			1		3				4	\$ 524.92
	Mechanical							1	2	3	\$ 576.13
	Plumbing							1	2	3	\$ 576.13
	Fire Protection							1	1	2	\$ 417.30
	Electrical							1	1	2	\$ 417.30
	Low Voltage							1	3	4	\$ 734.96
	Package 2: Bid Package Submittal										
	Project Manager			1						1	\$ 300.80
	Civil							1	3	4	\$ 734.96
	Life Safety			1		3				4	\$ 524.92
	Architecture			1		3				4	\$ 524.92
	Interiors			1		3				4	\$ 524.92
	Mechanical							1	2	3	\$ 576.13
	Plumbing							1	2	3	\$ 576.13
	Fire Protection							1	1	2	\$ 417.30
	Electrical							1	1	2	\$ 417.30
	Low Voltage							1	3	4	\$ 734.96

New ARFF Facility - Phasing Services

		HOURS							HOURS	TOTAL COST (\$)	
		Principal	Sr. Project Manager	Senior Architect	Architect	Intern Architect	Senior Engineer	Engineer			Administrative Assistant
		\$386.79	\$300.80	\$257.17	\$131.92	\$89.25	\$256.47	\$158.83			\$633.27
1.1.5	Permit Package Submittal and Permitting										
	a. Permit Package Submittal										
	Package 1: Permit Package Submittal										
	Project Manager		1						1	\$ 300.80	
	Civil						1	2	3	\$ 576.13	
	Life Safety			1	1	3			5	\$ 656.84	
	Architecture			1	1	3			5	\$ 656.84	
	Interiors			1	1	3			5	\$ 656.84	
	Mechanical						1	2	3	\$ 576.13	
	Plumbing						1	2	3	\$ 576.13	
	Fire Protection						1	1	2	\$ 417.30	
	Electrical						1	1	2	\$ 417.30	
	Low Voltage						1	3	4	\$ 734.96	
	Package 2: Permit Package Submittal										
	Project Manager		1						1	\$ 300.80	
	Civil						1	2	3	\$ 576.13	
	Life Safety			1	1	3			5	\$ 656.84	
	Architecture			1	1	3			5	\$ 656.84	
	Interiors			1	1	3			5	\$ 656.84	
	Mechanical						1	2	3	\$ 576.13	
	Plumbing						1	2	3	\$ 576.13	
	Fire Protection						1	1	2	\$ 417.30	
	Electrical						1	1	2	\$ 417.30	
	Low Voltage						1	3	4	\$ 734.96	
	b. Permitting										
	Package 1										
	Project Manager		3						3	\$ 902.40	
	Civil						4	6	10	\$ 1,986.86	
	Life Safety			2	3	3	1		9	\$ 1,436.32	
	Architecture			2	5	10			17	\$ 2,066.44	
	Interiors										
	Mechanical						2	3	5	\$ 993.43	
	Plumbing						2	3	5	\$ 993.43	
	Fire Protection						1	2	3	\$ 576.13	
	Electrical						2	2	4	\$ 834.60	
	Low Voltage						1	3	4	\$ 734.96	
	Package 2										
	Project Manager		3						3	\$ 902.40	
	Civil						1	2	3	\$ 576.13	
	Life Safety			2	3	3	1		9	\$ 1,436.32	
	Architecture			5	10	21			36	\$ 4,479.30	
	Interiors			1	1	5			7	\$ 835.34	
	Mechanical						4	10	14	\$ 2,622.18	
	Plumbing						4	10	14	\$ 2,622.18	
	Fire Protection						1	2	3	\$ 576.13	
	Electrical						4	9	13	\$ 2,483.35	
	Low Voltage						1	3	4	\$ 734.96	
	<b>Task Total</b>	<b>2</b>	<b>17</b>	<b>42</b>	<b>70</b>	<b>174</b>	<b>119</b>	<b>202</b>	<b>626</b>	<b>\$ 104,253.81</b>	

**New ARFF Facility - Phasing Services**

	HOURS								HOURS	TOTAL COST (\$)	
	Principal	Sr. Project Manager	Senior Architect	Architect	Intern Architect	Senior Engineer	Engineer	Administrative Assistant			
	\$306.79	\$300.80	\$257.17	\$131.92	\$89.25	\$256.47	\$158.83	\$633.27			
<b>Task 1.2 Bidding and Award Services</b>											
1.2.1	CMAR Inquiries/Clarifications and Addenda - Pkg 1 & Pkg 2										
	Project Manager	5								5	\$ 1,504.00
	Civil						4	2		6	\$ 1,351.54
	Life Safety		1			3				4	\$ 524.92
	Architecture		5	20	31					56	\$ 6,691.00
	Interiors		1		3					4	\$ 524.92
	Mechanical						1	3		4	\$ 734.96
	Plumbing						1	3		4	\$ 734.96
	Fire Protection						1	5		6	\$ 1,052.62
	Electrical						4	3		7	\$ 1,510.37
	Low Voltage						1	6		7	\$ 1,211.45
1.2.2	CMAR GMP Review and Recommendation - Pkg 1 & Pkg 2										
	Project Manager	3								3	\$ 902.40
	Civil						2			2	\$ 516.94
	Life Safety										
	Architecture		2	5						7	\$ 1,173.94
	Interiors										
	Mechanical						2			2	\$ 516.94
	Plumbing						2			2	\$ 516.94
	Fire Protection						2			2	\$ 516.94
	Electrical						2			2	\$ 516.94
	Low Voltage						3			3	\$ 775.41
1.2.3	Conformed Documents - Pkg 1 & Pkg 2										
	Project Manager	1								1	\$ 300.80
	Civil						2	3		5	\$ 993.43
	Life Safety		1			3				4	\$ 524.92
	Architecture		2	3	5					10	\$ 1,356.35
	Interiors		1		1					2	\$ 346.42
	Mechanical						1	2		3	\$ 576.13
	Plumbing						1	2		3	\$ 576.13
	Fire Protection						1	2		3	\$ 576.13
	Electrical						1	2		3	\$ 576.13
	Low Voltage						1	3		4	\$ 734.96
	<b>Task Total</b>	-	9	13	28	46	32	36	-	164	\$ 27,838.59
<b>Task 1.3 Project Management and Project Coordination</b>											
	Project Management										
	Project Manager	2	5						1	8	\$ 2,870.85
	<b>Task Total</b>	2	5	-	-	-	-	-	1	8	\$ 2,870.85
<b>TOTAL FOR ALL TASKS (RS&amp;H)</b>											
		4	31	55	98	220	151	238	1	798	\$ 134,963.25

### New ARFF Facility - Phasing Services

<b>Sub Consultant Effort by Major Task Item</b>	<b>Task 1.1</b>	<b>Task 1.2</b>	<b>Total</b>
Keith and Associates	\$ 19,547.87	\$ 6,948.28	\$ 26,496.15
CRJ and Associates	\$ -	\$ 10,087.04	\$ 10,087.04
Master Consulting	\$ 48,304.47	\$ 7,645.83	\$ 55,950.30
<b>TOTAL SUBCONSULTANTS</b>			<b>\$ 92,533.49</b>

## ATTACHMENT C: SUBCONSULTANT PROPOSALS

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*New ARFF Facility – Phasing Services*



Wednesday, September 6, 2023

RS&H

10748 Deerwood Park Blvd South

Jacksonville, FL 32256

[P] (904) 256-2276

[C] (812) 525-7455

[E] [Aaron.Jackson@rsandh.com](mailto:Aaron.Jackson@rsandh.com)

**RE: Subconsultant Letter Proposal  
New ARFF Facility: Package Split & Bidding and Award Services Scope of Work  
Task Authorization No. I-23-PBI-R-036  
Landside Civil Engineering**

Mr. Aaron Jackson, P.E. – Aviation Structural Engineer:

CRJ & Associates, Inc. (CRJ) has received your firm's Scope of Work dated 08/15/2023 which will be presented to Palm Beach County Department of Airports (PBCDOA). CRJ understands, from review of the Package Split, that your firm has been requested to split the packages into two separate Construction Management at Risk (CMAR) packages due to funding and phasing of other on-going Projects at the Airport.

CRJ, in reading RS&H's Scope, understood the following:

- Package 1 Scope of Work includes:
  - Sitework
  - Gate V-27
  - ARFF secured parking lot
  - Dumpster and FPL Utility Pad Area
  - Fuel and Generator Area
  - Building
  - Landscape
  - Consideration of Florida Building Code 8<sup>th</sup> Ed.
- Package 2 Scope of Work includes:
  - All construction drawings and work not included within Package 1.

Overall, CRJ understood that **Package 1 would contain the majority of our Civil Site Design:**

1. All Drainage Closed Conduit System with Drainage Structures (S-1 thru S-15)
2. Parking Lots (i.e., ARFF Public Lot and ARFF Secured Parking Lot)
3. Duncan Avenue Realignment
4. Pavement Markings and Signage



2699 Stirling Road, Suite B-201  
 Fort Lauderdale, Florida 33312  
 954.239.4330 Tel  
[www.crjassociates.com](http://www.crjassociates.com)

Our involvement with Package 2, at the time of writing this Proposal, was deemed negligible with only roof drains connections from the east and west sides of the New ARFF (refer to Sheet C501). These elements can be coordinated by RS&H and the MEP should question arise during the Package Split & Bid and Award efforts.

In adhering to your firm's 08/15/2023 (Version 1.0) New ARFF Facility: Package Split & Bidding and Award Services Scope of Work, **CRJ's involvement would be within Task 1.2 Bidding and Award Services – Additional Services for Package 1** as follows:

**Task 1.2.1 CMAR Inquiries/Clarifications and Addenda (Package 1)**

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 1.2.2 CMAR GMP Review and Recommendation (Package 1)**

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

**Task 1.2.3 Conformed Documents (Package 1)**

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.

CRJ, at the time of preparing this Scope and Fee Proposal, had determined our involvement with Splitting the 100% Plans would involve the three (3) tasks listed above with the following fees.

Description	Fees
Task 1.2.1 CMAR Inquiries/Clarifications and Addenda (Package 1)	\$2,441.88
Task 1.2.2 CMAR GMP Review and Recommendation (Package 1)	\$2,441.88
Task 1.2.3 Conformed Documents (Package 1)	\$5,203.28
<b>TOTAL =</b>	<b>\$10,087.04</b>

Sincerely,  
**CRJ & ASSOCIATES, INC.**

Marc A. Fermanian, MSCE, P.E. – President  
 Professional Engineer #52626  
[mfermanian@crjassociates.com](mailto:mfermanian@crjassociates.com)

Attachment:  
 CONSULTANT FEES - Landside Civil Engineering Package Split & Bidding and Award Services Scope of Work



**CRJ & Associates, Inc.**  
Consulting Engineers and Planners

**CONSULTANT FEES - Landside Civil Engineering Package Split & Bidding and Award Services Scope of Work**

Prepared for: **RS&H c/o Palm Beach County Department of Airports (PBCDOA)**  
**Palm Beach International Airport; New ARFF Facility: Package Split & Bidding and Award Services Scope of Work**  
**Task Authorization No. No. I-23-PBI-R-036**  
**Prime Consultant: RS&H (attention to: Mr. Aaron Jackson, P.E. - Aviation Structural Engineer)**

**Palm Beach County**

PROJECT LOCATION: Palm Beach International Airport (PBI)  
 PROJECT NUMBER: Task No. I-23-PBI-R-033  
 CRJ Consulting Fee Estimate for Landside Civil Engineering CA Services & Permitting Close-Out  
 Date: Wednesday, September 6, 2023  
 CRJ & Associates, Inc

Palm Beach International Airport (PBI)
Task No. I-23-PBI-R-033
10,087.04

**LABOR ESTIMATE**

Description	Principal	Proj. Eng.	Eng. Insp.	CADD Technician	Clerical	Total Hours	Total Cost
<i>PBCDOA approved 4.8% Rate Increase (CRJ received on 09/06/2023)</i>							
<b>Task 1.2 BIDDING PHASE SERVICES</b>	\$225.14	\$169.13	\$141.00	\$139.07	\$79.82		\$ 10,087.04
Task 1.2.1 CMAR Inquiries/Clarifications and Addenda (Package 1)	2	8	0	0	8	18	\$ 2,441.88
Task 1.2.2 CMAR GMP Review and Recommendation (Package 1)	2	8	0	0	8	18	\$ 2,441.88
Task 1.2.3 Conformed Documents (Package 1)	2	8	0	20	8	38	\$ 5,203.28
sub-total	6	24	0	20	24	74	\$ 10,087.04
<b>TOTAL HOURS</b>	<b>6</b>	<b>24</b>	<b>0</b>	<b>20</b>	<b>24</b>	<b>74</b>	<b>\$ 10,087.04</b>
<b>TOTAL LABOR COST</b>	<b>\$1,350.84</b>	<b>\$4,059.12</b>	<b>\$0.00</b>	<b>\$2,761.40</b>	<b>\$1,915.68</b>		<b>\$ 10,087.04</b>

TOTAL LABOR COST \$ 10,087.04  
 PRINTING / REPRODUCTION \$ -  
 LABOR COST + PRINTING / REPRODUCTION \$ 10,087.04  
 PROJECT TOTAL LUMP-SUM NOT-TO-EXCEED FEES: \$ 10,087.04





## CONTRACT ADDENDUM

September 21, 2023

Mr. Michael Strickler, P.E.  
RS&H, Inc.  
3125 W Commercial Blvd, suite 130  
Ft Lauderdale, FL 33309  
Cell : 954-294-8469  
Michael.Strickler@rsandh.com

Project Name: PBI ARFF  
Project Location: Palm Beach International  
Airport  
KEITH Project Number: 10216.05  
Contract Addendum: 02  
Project Manager: Jorge Valle-Pellot

This Contract Addendum is being offered to expand additional professional services to be performed under this contract. RS&H has requested KEITH to provide Civil Engineering and Landscape Architecture Services for splitting current deliverable into two (2) separate CMAR packages (Project) due to funding and phasing of other on-going Projects at the Airport. Package 1 is assumed to be bid / permitted within (6) months of NTP and Package 2 is assumed to be bid / permitted with (1) one year of NTP.

### Package 1

Construction documents and specifications for this package include the following:

- Civil
  - Water and sanitary plans - 100% Construction Documents
- Landscape
  - Demolition of existing trees. Mitigation will be provided prior to close-out of Package 2.
  - All proposed landscape areas/exposed soil to receive bahia seed/sod and be hand watered until established. Contractor shall re-seed/sod as required to have 100% coverage.
  - Partial site irrigation: establish connection to water source, install all main line, control wires, zone valve stub-outs, and required sleeving under hardscape areas per plan.
  - Limits of construction will be coordinated with CMAR during Package 1 development.

### Package 2

- Landscape
  - Install all proposed landscape per plan
  - Finish irrigation installation including all lateral lines, heads, valves, controller, etc. not installed with Package 1.

## DESCRIPTION OF ADDITIONAL SERVICES

### Task 1.1 Two (2) Bid / Permit Document Packages – Civil and Landscape

#### **Task 1.1.1 Bid / Permit Package Development - Split**

KEITH will revise the civil and landscape drawings to split them into correct packages. Efforts to duplicate backgrounds and drawings for each Package and duplicating the Project Manual and assigning specifications (and duplicating specifications if needed) into the correct Package are included under this task.

#### **Task 1.1.3 Bid / Permit Package Quality Control Review**

KEITH will conduct in-house quality control reviews of this submittal. The review will cover the design plans

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

September 21, 2023 / Page 2 of 3  
PBA ARFF – KEITH 10216.05  
RS&H, Inc.  
Contract Addendum No. 02

and technical specifications prior to submittal to the Airport.

**Task 1.1.4 Bid Package Submittals**

KEITH will prepare and submit drawings in pdf format to CMAR and PBC DOA to be used for bidding. Documents will be noted “NOT FOR CONSTRUCTION, FOR BIDDING ONLY”.

**Task 1.1.5 Permit Package Submittal and Permitting**

KEITH will submit electronic signed and sealed drawings per package in pdf format to CMAR and PBC DOA to be submitted to Permitting Agencies (PZB). Documents will be noted “FOR CONSTRUCTION”. KEITH will assist during permitting process responding to permitting questions and comments and revising the necessary portions of the Contract Documents for approval by Permitting Agency to assist in obtaining permits.

**Task 1.2 Bidding and Award Services - Additional Services - Civil and Landscape**

**Task 1.2.1 CMAR Inquiries/Clarifications and Addenda**

KEITH 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 1.2.2 CMAR GMP Review and Recommendation**

KEITH will review the CMAR GMP and provide comments and / or recommendation of acceptance for each GMP. Review is limited to initial GMP review and (1) revision review.

**Task 1.2.3 Conformed Documents**

KEITH will 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.

**SCHEDULE**

Task 1.1 Two (2) Bid / Permit Document Packages– Civil and Landscape	2 Months
Task 1.2 Bidding and Award Services - Additional Services - Civil and Landscape	4 Months

**COMPENSATION**

Task 1.1 Two (2) Bid / Permit Document Packages– Civil and Landscape	\$19,547.87 (Lump Sum)
<u>Task 1.2 Bidding and Award Services - Additional Services - Civil &amp; Landscape</u>	<u>\$6,948.28 (Lump Sum)</u>

**Total Fee** **\$26,496.15 + reimbursables**

The CLIENT is required to execute this Addendum and return it to the CONSULTANT prior to commencement of the additional services described herein. All items, terms, and conditions of the



*Engineering Inspired Design.*

September 21, 2023 / Page 3 of 3

PBIA ARFF – KEITH 10216.05

RS&H, Inc.

Contract Addendum No. 02

original Agreement (as amended to include the scope defined herein) remain unchanged and in full force and effect.

IN WITNESS WHEREOF, CONSULTANT and CLIENT have executed this agreement the day and year indicated below.

As to CONSULTANT  
KEITH

\_\_\_\_\_

Alex Lazowick, PE, PMP, ENV SP

President

DATED: \_\_\_\_\_

As to CLIENT  
RS&H, Inc.

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

Title: \_\_\_\_\_

DATED: \_\_\_\_\_



		Project Manager III	Engineer III	Senior Landscape Architect	Arborist	Landscape Designer II	Landscape Designer III	HOURS	TOTAL COST
Burdened hourly rate		\$231.00	\$138.97	\$231.60	\$189.85	\$123.53	\$154.41		(\$)
<b>Task 1.1 Two (2) Bid / Permit Document Packages</b>									
1.1.1	Bid / Permit Package Development - Split <i>Landscaping / Civil</i>	1	8	4			12	25	\$ 4,122.68
1.1.2	Bid / Permit Package Development - Additional Services <i>N/A</i>							-	\$ -
1.1.3	Bid / Permit Package Quality Control Review Independent Technical Peer Review <i>Landscaping / Civil</i>	4	6	4			6	20	\$ 3,613.08
1.1.4	Bid Package Submittal							-	\$ -
	Package 1: Bid Package Submittal <i>Landscaping / Civil</i>	2	5	2			4	13	\$ 2,238.89
	Package 2: Bid Package Submittal <i>Landscaping</i>			4			14	18	\$ 3,088.14
1.1.5	Permit Package Submittal and Permitting							-	\$ -
	a. Permit Package Submittal							-	\$ -
	Package 1: Permit Package Submittal <i>Landscaping / Civil</i>	1	2	1			2	6	\$ 1,049.96
	Package 2: Permit Package Submittal <i>Landscaping</i>			1			2	3	\$ 540.42
	b. Permitting							-	\$ -
	Package 1 <i>Landscaping / Civil</i>	3	8	2			6	19	\$ 3,196.22
	Package 2 <i>Landscaping</i>			2			8	10	\$ 1,698.48
	<b>Task Total</b>	<b>11</b>	<b>29</b>	<b>20</b>	<b>-</b>	<b>-</b>	<b>54</b>	<b>114</b>	<b>\$ 19,547.87</b>
<b>Task 1.2 Bidding and Award Services</b>									
1.2.1	CMAR Inquiries/Clarifications and Addenda <i>Landscaping / Civil</i>	1	3	2			4	10	\$ 1,729.35
1.2.2	CMAR GMP Review and Recommendation <i>Landscaping / Civil</i>	1	3	2			6	12	\$ 2,038.17
1.2.3	Conformed Documents <i>Landscaping / Civil</i>	2	4	4			8	18	\$ 3,180.76
	<b>Task Total</b>	<b>4</b>	<b>10</b>	<b>8</b>	<b>-</b>	<b>-</b>	<b>18</b>	<b>40</b>	<b>\$ 6,948.28</b>
<b>TOTAL FOR ALL TASKS (KEITH)</b>		<b>15</b>	<b>39</b>	<b>28</b>	<b>-</b>	<b>-</b>	<b>72</b>	<b>154</b>	<b>\$ 26,496.15</b>



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5950 LAKEHURST DR., SUITE. 183  
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P (407) 351-2384 F (813) 287-3622  
www.mcengineers.com

September 13, 2023

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

RE: Palm Beach International Airport New ARFF Facility (Additional Services)  
846 Palm Beach International Airport, West Palm Beach, FL 33406

Dear Mr. Jackson:

Master Consulting Engineers, Inc. (MCE) was requested to provide (2) two separate packages for permitting: one for the foundations and another one for the main building structure. Additionally, by the time is expected to submit both packages for permitting, the new Florida Building Code 2023 will be in effect. Consequently, the entire structure will need to be redesigned to ensure compliance with the updated code.

MCE Additional Services Description:

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

**Package 1:**

- a) Produce bid package documents and specifications for the building's foundations (including general notes, wind pressures, and foundations plan with footing schedule showing sizes, reinforcements, dowels concrete columns, and CMU walls and steel columns base plates). The foundation package will also include a dumpster enclosure and flag pole foundations.
- b) Perform a quality control review.
- c) Re-design of steel columns base connection to be supported over a concrete pedestal from the top of the foundation to grade level.
- d) Foundations will need to be redesigned due to the new Florida Building Code 2023 adoption.
- e) Bidding and award services.

**Package 2:**

- a) Produce Bid Package documents for the main building and all remaining elements not included in Package 1. Bid Package 2 will include slab on grade, exterior and interior walls, concrete columns, steel columns, roof steel framing, roof deck, and all corresponding sections and details.
- b) Perform quality control review.
- c) Structure will need to be redesigned due to the new Florida Building Code 2023 adoption.
- d) Bidding and award services.



This additional work requires MCE to spend time in engineering and drafting that was not in our original budget, therefore we have estimated an additional fee in the amount of **\$55,950.30** for this additional work.

Should you be in agreement with this proposal, please signify by signing in the space provided below and return a copy to our office for our files.

Very truly yours,

**Master Consulting Engineers, Inc.**

A handwritten signature in black ink that reads 'Fabiana Orellana'.

Fabiana Orellana  
Project Engineer

Accepted by \_\_\_\_\_

Title \_\_\_\_\_

	HOURS										TOTAL COST (\$)
	Sr. Principal	Principal	Sr. Structural Engineer	Structural Engineer	Sr. CADD / BIM Technician	CAD/BIM Technician	Accounting	Administration	HOURS	TOTAL COST (\$)	
Burdened hourly rate											
<b>Task 1.1 Two (2) Bid / Permit Document Packages</b>											
1.1.1 Bid / Permit Package Development											
Structural		1	2	8	56					67	\$ 5,755.73
1.1.2 Bid / Permit Package Development - Additional Service											
Structural		8	28	128	148					312	\$ 27,911.92
1.1.3 Bid / Permit Package Quality Control Review											
Independent Technical Peer Review											
Structural		4	8	16	24					52	\$ 4,917.40
1.1.4 Bid Package Submittal											
Package 1: Bid Package Submittal				4	16						
Structural										20	\$ 1,680.92
Package 2: Bid Package Submittal				4	16					20	\$ 1,680.92
Structural											
1.1.5 Permit Package Submittal and Permitting											
a. Permit Package Submittal											
Package 1: Permit Package Submittal			2	2						4	\$ 520.16
Structural											
Package 2: Permit Package Submittal			2	2						4	\$ 520.16
Structural											
b. Permitting											
Package 1			1	4	8	16				29	\$ 2,658.63
Structural											
Package 2			1	4	8	16				29	\$ 2,658.63
Structural											
Task Total	-	19	50	176	292					537	\$ 48,304.47
<b>Task 1.2 Bidding and Award Services</b>											
1.2.1 CMAR Inquiries/Clarifications and Addenda											
Structural		1	4	16	16					37	\$ 3,342.39
1.2.2 CMAR GMP Review and Recommendation											
Structural		1	2	2	8					13	\$ 1,225.79
1.2.3 Conformed Documents											
Structural		1	2	8	24					35	\$ 3,077.65
Task Total	-	3	8	26	48					85	\$ 7,645.83
<b>TOTAL FOR ALL TASKS (RS&amp;H)</b>	-	22	58	202	340					622	\$ 55,950.30

**EXHIBIT A-2 – Task I-23-PBI-R-037: 400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule**



## **400 Hz GPU Replacement Construction Administration & RPR Services – Extended Schedule**

Version 1.0

September 20, 2023

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

Task Authorization No. I-23-PBI-R-037

RS&H Project No.: 206-3101-025

Prepared by RS&H Inc.  
at the direction of Palm Beach  
County Department of Airports



## 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 400Hz GPU Point of Use Replacement Project at Palm Beach International Airport (Project).

This proposal is to provide construction administration services and partial RPR services to support the additional construction time of the 400 Hz GPU replacement project.

DOA Task I-22-PBI-R-025 400Hz GPU Replacement Construction Administration & RPR Service project Task 3.1 Partial RPR Services included Electrical RPR (Quantum) on site for (5) days per week at (6) six hours per day for (55) fifty-five weeks (Maximum Not-to-Exceed).

NTP was issued 3/14/22 and Electrical RPR started effort on 5/17/22 which would have RPR end date of 6/6/23. RPR has been efficient with time and thus has not used all allocated funding for this task at time of proposal.

Attachment A is Contractor's latest schedule and indicates that Substantial Completion is schedule for 7/18/24 which is (112) one-hundred twelve weeks from date when RPR on-site efforts began.

At the current RPR fee burn rate, the project has budget to support RPR on-site for a total of (74) weeks on-site; thus, this proposal includes additional RPR services for an additional (38) weeks to have RPR site thru 7/18/24 Substantial Completion (ie on-site for 112 weeks).

## II PROJECT TASKS

### TASK 1 CONSTRUCTION ADMINISTRATION SERVICES

#### **Task 1.1 Construction Progress Meetings – RS&H / Quantum Electrical Engineering**

The Consultant Project Manager and the Electrical RPR shall participate in (19) additional bi-weekly remote construction coordination meetings until the Contractor has reached Substantial Completion. Each meeting is anticipated to be (1) one hour.

**Task 1.2 Project Management – RS&H**

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 PARTIAL RESIDENT PROJECT REPRESENTATIVE (RPR) SERVICES****Task 2.1 Partial RPR Services – Quantum Electrical Engineering**

The Consultant shall provide part-time electrical RPR services for the project that will consist of on-site presence and observation for (30) thirty hours per week for (38) thirty-eight weeks. The RPR will observe the on-site construction to confirm the work is in compliance with the contract documents and is progressing according to the construction schedule. The RPR will provide a weekly observation report identifying the progress of the construction and any deficiencies or discrepancies observed. The RPR will attend the construction progress meetings noted above as well as coordinate with other discipline team members for support during site visits. RPR will be provided by Quantum Electrical Engineering, Inc.

### III PROFESSIONAL SERVICES FEE AND FEE TYPE

RS&H will provide for a Fixed Lump Sum Fee as shown below. See Attachment B for a breakdown of costs.

RS&H (Task 1 & 2) =	\$ 7,542.92
Quantum (Task 1 & 2) =	\$ <u>0.00</u>
Total	\$ 7,542.92

RS&H will provide for a Maximum Fee, utilizing agreed to billing rates, Not-To-Exceed as shown below. See Attachment for a breakdown of costs.

Quantum (Task 1 & 2) =	\$160,366.46
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Total Fee as follows:

Lump Sum Fee (Task 1 & 2) =	\$ 7,542.92
Maximum Fee, Not-to-Exceed (Task 1 & 2)) =	<u>\$160,366.46</u>

**Total Project Fee (Not-To-Exceed) = \$167,909.38**

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 – LATEST CONSTRUCTION SCHEDULE



**PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE**



ID	Task Name	Start	Finish	Duration	4/2, 2021 A S O N D	1/1, 2022 J F M A M J J A S O N D	2/1, 2022 J F M A M J J A S O N D	3/1, 2022 J F M A M J J A S O N D	4/1, 2022 J F M A M J J A S O N D	5/1, 2022 J F M A M J J A S O N D	6/1, 2022 J F M A M J J A S O N D	7/1, 2022 J F M A M J J A S O N D	8/1, 2022 J F M A M J J A S O N D	9/1, 2022 J F M A M J J A S O N D	10/1, 2022 J F M A M J J A S O N D	11/1, 2022 J F M A M J J A S O N D	12/1, 2022 J F M A M J J A S O N D	
1	<b>PBIA - CONCOURSE B&amp;C - 400 HZ GPU POINT OF USE - ACG SCHEDULE</b>	Mon 8/19/24	Mon 8/19/24	636 days														
2	ARTICLE TO PROCEED	Mon 3/14/22	Mon 3/14/22	0 days														
3	PHASE I - ADMINISTRATION	Mon 3/14/22	Tue 5/24/22	52 days														
4	SUBMITTALS - PREPARE & SUBMIT	Mon 3/14/22	Fri 3/18/22	5 days														
5	SUBMITTALS - REVIEW & APPROVE	Mon 3/14/22	Fri 4/29/22	30 days														
6	PERMITS	Mon 3/14/22	Tue 5/24/22	52 days														
7	ID BADGES	Mon 3/14/22	Fri 4/22/22	30 days														
8	PHASE II - CONSTRUCTION	Wed 7/18/24	Thu 7/18/24	612 days														
9	PROCUREMENT - FABRICATION (CRITICAL EQUIPMENT INITIAL DELIVERY)	Fri 4/22/22	Mon 10/2/23	377 days														
10	CONCOURSE B DOORS B116E & B117E, (DOORS - FRAMES - HARDWARE)	Mon 5/2/22	Mon 9/5/22	91 days														
11	CONCOURSE C DOORS C120E & C121E, (DOORS - FRAMES - HARDWARE)	Mon 5/2/22	Mon 9/5/22	91 days														
12	FPL VAULT DOORS FPL01 & FPL02 (DOORS - FRAMES - HARDWARE)	Mon 5/2/22	Mon 9/5/22	91 days														
13	FPL VAULT DOORS FPL01&FPL02 (DOORS - FRAMES - HARDWARE) - DELIVERY DELAY	Tue 9/6/22	Mon 11/28/22	60 days														
14	FPL VAULT DOORS FPL01&FPL02 (DOORS - FRAMES - HARDWARE) - NEW ORDER DELAY	Thu 5/18/23	Wed 9/6/23	80 days														
15	CONCOURSE B FANCOIL UNIT & ACCESSORIES FCUB	Fri 4/22/22	Thu 8/25/22	90 days														
16	CONCOURSE C FANCOIL UNIT & ACCESSORIES FCUC	Fri 4/22/22	Thu 8/25/22	90 days														
17	200/3 NF-N-4X-316 - DISCONNECTS	Mon 5/2/22	Fri 9/2/22	90 days														
18	200/3 NF-N-4X-316 - DISCONNECTS DELIVERY DELAY	Mon 9/5/22	Fri 11/14/22	30 days														
19	400 Hz GPU-28 VDC EQUIPMENT - DELIVERY	Mon 11/7/22	Tue 11/8/22	2 days														
20	SWITCHBOARDS JB81	Fri 4/22/22	Tue 10/25/22	133 days														
21	SWITCHBOARDS JB81 - DELIVERY DELAY	Wed 10/26/22	Fri 5/26/23	153 days														
22	SWITCHBOARDS JB81 - SECOND DELIVERY DELAY (INFORMATION RECEIVED ON 05/24/23)	Mon 5/29/23	Fri 6/30/23	25 days														
23	SWITCHBOARDS JB81 - THIRD DELIVERY DELAY (INFORMATION RECEIVED ON 07/17/23)	Mon 7/17/23	Mon 9/25/23	61 days														
24	PANELBOARDS LBB1	Fri 4/22/22	Wed 11/30/22	159 days														
25	PANELBOARDS LBB2	Fri 4/22/22	Wed 11/30/22	159 days														
26	PANELBOARDS MTS LBB1	Fri 4/22/22	Wed 11/30/22	159 days														
27	PANELBOARDS MTS LBB2	Fri 4/22/22	Wed 11/30/22	159 days														
28	PANELBOARD EBR4	Fri 4/22/22	Wed 11/30/22	159 days														
29	SWITCHBOARDS JB81 - DELIVERY DELAY	Fri 4/22/22	Tue 10/25/22	133 days														
30	SWITCHBOARDS JB81 - SECOND DELIVERY DELAY (INFORMATION RECEIVED ON 05/24/23)	Mon 5/29/23	Fri 7/7/23	30 days														
31	SWITCHBOARDS JB81 - THIRD DELIVERY DELAY (INFORMATION RECEIVED ON 07/17/23)	Mon 7/10/23	Mon 10/2/23	61 days														
32	PANELBOARDS LBC1	Fri 4/22/22	Wed 11/30/22	159 days														
33	PANELBOARDS LBC2	Fri 4/22/22	Wed 11/30/22	159 days														
34	PANELBOARDS MTS LBC1	Fri 4/22/22	Wed 11/30/22	159 days														
35	PANELBOARDS MTS LBC2	Fri 4/22/22	Wed 11/30/22	159 days														
36	PANELBOARD ECR4	Fri 4/22/22	Wed 11/30/22	159 days														
37	CONCOURSE B&C ELECTRICAL ROOMS - BUSWAYS	Fri 4/22/22	Thu 12/15/22	170 days														
38	CONCOURSE B&C ELECTRICAL ROOMS - EMS & RETROFIT DRAW-OUT BREAKERS FOR SIEMENS-ALLIS SUBSTATION - REQUIRES PREVIOUS MEASUREMENT BY EATON	Fri 4/22/22	Mon 4/3/23	247 days														
39	CONCOURSE B&C ELECTRICAL ROOMS - EMS & RETROFIT DRAW-OUT BREAKERS FOR SIEMENS-ALLIS SUBSTATION - REQUIRES PREVIOUS MEASUREMENT BY EATON	Fri 4/22/22	Thu 6/2/22	30 days														
40	CONDUITS	Fri 4/22/22	Thu 6/2/22	30 days														
41	ELECTRIC CABLES	Fri 6/3/22	Thu 7/14/22	30 days														
42	CONCOURSE B&C 400 HZ ROOMS - INMergen CLEAN AGENTS & ACCESSORIES	Mon 5/2/22	Fri 3/17/23	230 days														
43	CONCOURSE B&C 400 HZ ROOMS - FIRE ALARM MODULES SYSTEMS & ACCESSORIES	Mon 5/2/22	Thu 12/8/22	159 days														
44	CONCOURSE B&C 400 HZ ROOMS - LIGHT FIXTURES & ACCESSORIES	Mon 5/2/22	Fri 11/25/22	150 days														
45	CONCOURSE B&C 400 HZ ROOMS - COMMUNICATION RACKS & ACCESSORIES	Mon 5/2/22	Mon 5/2/22	150 days														
46	CONCOURSE B&C - 400 HZ & SWITCHGEAR ROOMS - DOOR ACCESS CONTROLS, SECURITY SYSTEMS & ACCESSORIES	Mon 5/2/22	Fri 11/25/22	150 days														
47	MOBILIZATION	Wed 4/26/22	Tue 4/26/22	30 days														
48	GENERAL CONSTRUCTION - INSTALL OFFICE CONTAINER & SET UP	Wed 3/16/22	Tue 3/29/22	10 days														



**PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE**



ID	Task Name	Start	Finish	Duration	1/2, 2021 A S O N D	1/1, 2022 J F M A M J J A S O N D	1/1, 2023 J F M A M J J A S O N D	1/1, 2024 J F M A M J J A S O N D	1/1, 2025 J F M A M J J A S O N D	1/1, 2025 J F M A M J J A S O N D
49	ELECTRICAL - PROVIDE & CONNECT POWER TO OFFICE TRAILER	Wed 3/16/22	Tue 4/26/22	30 days						
50	WATER UTILITY - PROVIDE & CONNECT WATER SERVICE TO OFFICE TRAILER	Wed 3/16/22	Tue 4/12/22	20 days						
51	<b>DEMOLITION</b>	Wed 5/25/22	Tue 11/28/23	395 days						
52	<b>CONCOURSE B</b>	Wed 5/25/22	Tue 8/8/23	315 days						
53	400 HZ & SWITCHGEAR ROOMS	Wed 5/25/22	Tue 8/8/23	315 days						
54	STAGING AREA PREPARATION - INSTALL TEMPORARY ENCLOSURES	Wed 5/25/22	Fri 5/27/22	3 days						
55	ELECTRICAL - RELOCATE WIFI POWER CONDUIT OVER DOOR B116E	Mon 5/20/22	Fri 6/3/22	5 days						
56	FIRE PROTECTION - INSTALL TEMPORARY PROTECTION TO EXISTING SPRINKLER SYSTEM & CHECK HEIGHT CLEARANCE	Wed 5/25/22	Thu 5/26/22	2 days						
57	MECHANICAL - ROOM B116E - REMOVE EXISTING EXHAUST FAN, DUCTWORK AND LOUVER	Mon 6/6/22	Fri 6/10/22	5 days						
58	ELECTRICAL - REMOVE EXISTING LIGHTING (IF NEEDED) - ROOM B116E	Mon 6/13/22	Tue 6/14/22	2 days						
59	GENERAL CONSTRUCTION - INSTALL TEMP DOORS, REMOVE EXISTING DOORS, LINTEL AND CMU OVER EXISTING DOORS (B116E)	Thu 10/6/22	Mon 10/10/22	3 days						
60	GENERAL CONSTRUCTION - INSTALL TEMP DOORS, PERFORM PRESSURE TEST, REMOVE EXISTING DOORS, LINTEL AND CMU OVER EXISTING DOORS (B117E)	Wed 8/7/23	Tue 8/8/23	5 days						
61	<b>CONCOURSE C</b>	Wed 5/25/22	Tue 4/4/23	225 days						
62	400 HZ & SWITCHGEAR ROOMS	Wed 5/25/22	Tue 4/4/23	225 days						
63	STAGING AREA PREPARATION - INSTALL TEMPORARY ENCLOSURE	Wed 5/25/22	Fri 5/27/22	3 days						
64	FIRE PROTECTION - INSTALL TEMPORARY PROTECTION TO EXISTING SPRINKLER SYSTEM & CHECK HEIGHT CLEARANCE	Mon 5/20/22	Tue 5/31/22	2 days						
65	MECHANICAL - ROOM C120E - REMOVE EXISTING EXHAUST FAN, DUCTWORK AND LOUVER	Wed 6/1/22	Tue 6/7/22	5 days						
66	ELECTRICAL - REMOVE EXISTING LIGHTING (IF NEEDED) - ROOM C120E	Wed 6/8/22	Thu 6/9/22	2 days						
67	GENERAL CONSTRUCTION - INSTALL TEMP DOORS, REMOVE EXISTING DOORS, LINTEL AND CMU OVER EXISTING DOORS (C120E)	Tue 1/31/23	Thu 2/2/23	3 days						
68	GENERAL CONSTRUCTION - INSTALL TEMP DOORS, PERFORM PRESSURE TEST, REMOVE EXISTING DOORS, LINTEL AND CMU OVER EXISTING DOORS (C121E)	Fri 3/31/23	Tue 4/4/23	3 days						
69	<b>FPL VAULT ROOM</b>	Thu 7/27/23	Tue 11/28/23	89 days						
70	<b>DOORS &amp; FIRE PROTECTION - DEMOLITION</b>	Thu 7/27/23	Tue 10/3/23	49 days						
71	COORDINATE WITH FPL - PERMIT TO OPEN & DEMO DOORS (F101 & F102)	Thu 7/27/23	Wed 9/6/23	30 days						
72	SITE WORK - REMOVE DOORS (F101 & F102)	Wed 9/20/23	Tue 10/3/23	10 days						
73	<b>GENERAL CONSTRUCTION</b>	Wed 10/4/23	Tue 11/28/23	40 days						
74	GENERAL CONSTRUCTION - INSTALL DOOR F101 & LOUVER	Wed 10/4/23	Tue 10/31/23	20 days						
75	GENERAL CONSTRUCTION - INSTALL DOOR F102	Wed 11/1/23	Tue 11/14/23	10 days						
76	MASONRY - GROUT & PAINT AROUND DOORS	Wed 11/15/23	Tue 11/28/23	10 days						
77	<b>INSTALLATION</b>	Fri 6/3/22	Thu 7/18/24	555 days						
78	<b>CONCOURSE B</b>	Fri 6/3/22	Tue 2/20/24	448 days						
79	<b>CONCOURSE - ELECTRICAL - CONDUIT TO ALL GATES</b>	Fri 6/3/22	Thu 10/6/22	90 days						
80	ELECTRICAL - INSTALL ALL CONDUITS, JUNCTION BOXES, AND ACCESSORIES TO EACH GATE 400 HZ GPU UNIT	Fri 6/3/22	Thu 9/2/22	80 days						
81	ELECTRICAL - INSTALL ALL CONDUITS AND ACCESSORIES REQUIRED TO SUPPLY POWER TO 400 HZ GPU UNIT (TEMPORARY POWERED GATES)	Fri 8/12/22	Thu 10/6/22	40 days						
82	ELECTRICAL - PROVIDE JUNCTION BOXES JB1, JB3, AND JB5 FOR FUTURE GATE B15	Fri 9/16/22	Thu 10/6/22	15 days						
83	ELECTRICAL - PROVIDE JUNCTION BOXES JB 2, JB4, AND JB6 FOR FUTURE GATE B16	Fri 9/16/22	Thu 10/6/22	15 days						
84	<b>400 HZ UNITS INSTALLATION - TEMPORARY POWERED - FIELD BULLETIN #2</b>	Wed 11/9/22	Mon 12/26/22	34 days						
85	SUBSTATION B - REPLACE CIRCUIT BREAKER PER FIELD BULLETIN #2 KEYED NOTE #3 (NIGHT WORK)	Wed 11/9/22	Thu 11/10/22	2 days						
86	PREPARE TEMP POWER CONNECTIONS TO EACH GATE(NIGHT WORK)	Fri 11/11/22	Mon 11/14/22	2 days						
87	GATE B4 (Work extends to Saturday 11/12)	Fri 11/15/22	Mon 11/21/22	5 days						
89	GATE B2 (TWO UNITS)(Work extends to Saturday 11/19)	Tue 11/22/22	Mon 11/28/22	5 days						



PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE



ID	Task Name	Start	Finish	Duration	HF 2, 2021	HF 1, 2022	HF 2, 2022	HF 1, 2023	HF 2, 2023	HF 1, 2024	HF 2, 2024	HF 1, 2025	HF 2, 2025										
					A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F
111	GATE B7 (Thurs/Giving Weekend 24&25/11 - No Work)	Tue 11/29/22	Thu 12/1/22	3 days																			
123	GATE B1 (Work extends to Saturday 12/03)	Mon 11/28/22	Thu 12/1/22	4 days																			
135	GATE B3 - B6 (Concurrent Work with Gate C8) (Work extends to Saturday 12/10)	Mon 12/12/22	Thu 12/15/22	4 days																			
147	GATE B6 - B3 (Concurrent Work with Gate C12) (Work extends to Saturday 12/17)	Tue 12/20/22	Mon 12/26/22	5 days																			
159	400 HZ ROOM - ELECTRICAL	Wed 6/15/22	Tue 6/21/22	5 days																			
160	ELECTRICAL - INSTALL TEMPORARY LIGHTING - ROOM B116E (IF NEEDED)	Tue 9/26/23	Mon 11/6/23	30 days																			
161	ELECTRICAL - INSTALL & CONNECT PANEL EBR4	Tue 9/26/23	Mon 11/6/23	30 days																			
162	ELECTRICAL - INSTALL & CONNECT PANEL MTS LBB1	Tue 9/26/23	Mon 11/6/23	30 days																			
163	ELECTRICAL - INSTALL & CONNECT PANEL LBB1	Tue 9/26/23	Mon 11/6/23	30 days																			
164	ELECTRICAL - INSTALL & CONNECT PANEL MTS LBB2	Tue 9/26/23	Mon 11/6/23	30 days																			
165	ELECTRICAL - INSTALL & CONNECT PANEL LBB2	Tue 9/26/23	Mon 11/6/23	30 days																			
166	ELECTRICAL - INSTALL ALL INTERCONNECTING CONDUITS & WIRES BETWEEN PANELS	Tue 10/10/23	Mon 11/20/23	30 days																			
167	ELECTRICAL - INSTALL INTERNAL COMPONENTS IN ALL PANELS AS REQUIRED	Tue 10/10/23	Mon 11/20/23	30 days																			
168	ELECTRICAL - INSTALL BUSWAY	Tue 10/23/23	Tue 12/19/23	56 days																			
169	ELECTRICAL - INSTALL PANEL JBB1	Tue 9/26/23	Tue 12/19/23	61 days																			
170	ELECTRICAL - INSTALL ALL INTERCONNECTING CONDUITS BETWEEN PANELS & JBB1 SWITCHGEAR	Tue 9/26/23	Mon 11/6/23	30 days																			
171	ELECTRICAL - INSTALL ALL COMPONENT AND INTERCONNECTING WIRES BETWEEN PANELS & JBB1 SWITCHGEAR	Tue 10/31/23	Mon 12/11/23	30 days																			
172	SWITCHGEAR ROOM - ELECTRICAL	Tue 10/3/23	Mon 12/11/23	81 days																			
173	ELECTRICAL - INSTALL BUSWAY	Tue 10/3/23	Mon 12/11/23	50 days																			
174	ELECTRICAL - INSTALL EMS & RETROFIT DRAW-OUT BREAKERS FOR SIEMENS-ALLIS SUBSTATION	Tue 10/3/23	Mon 12/11/23	50 days																			
175	ELECTRICAL - CONNECT BUSWAY	Wed 12/20/23	Tue 1/23/24	25 days																			
176	400HZ & SWITCHGEAR ROOMS - ELECTRICAL	Wed 1/24/24	Tue 2/20/24	20 days																			
177	ENERGIZE & COMMISSION ALL PANELS TO BE READY TO SUPPLY POWER TO NEW 400 HZ GPU UNITS	Wed 1/24/24	Tue 2/20/24	20 days																			
178	400 HZ & SWITCHGEAR ROOMS - CONCRETE & MASONRY	Tue 11/8/22	Mon 10/9/23	240 days																			
179	400 HZ ROOM B116E - NEW DOOR OPENINGS - INSTALL REBAR PER DRAWINGS	Tue 11/8/22	Mon 11/14/22	5 days																			
180	400 HZ ROOM B116E - PREPARE FORMWORK FOR OPENING, NEW HVAC AIR LOUVER.	Tue 11/8/22	Mon 11/14/22	5 days																			
181	400 HZ ROOM B116E - POUR DOOR LINTEL	Tue 11/15/22	Mon 11/21/22	5 days																			
182	400 HZ ROOM B116E - INSTALL CMU OVER NEW DOOR - INSPECTION	Tue 11/22/22	Mon 12/7/23	30 days																			
183	400 HZ ROOM B116E - INSTALL NEW DOORS, FRAMES AND HARDWARE	Tue 1/3/23	Mon 1/23/23	15 days																			
184	400 HZ ROOM B116E - GROUT & PAINT AROUND NEW DOORS	Tue 1/24/23	Mon 1/30/23	5 days																			
185	400 HZ ROOM B116E - FORM & POUR JBB1 CONCRETE PAD	Tue 9/12/23	Mon 10/9/23	20 days																			
186	SWITCHGEAR ROOM B117E - NEW DOOR OPENINGS - INSTALL REBAR PER DRAWINGS	Wed 8/9/23	Tue 8/15/23	5 days																			
187	SWITCHGEAR ROOM B117E - PREPARE FORMWORK FOR OPENING, POUR CONCRETE AS REQUIRED	Wed 8/9/23	Tue 8/15/23	5 days																			
188	SWITCHGEAR ROOM B117E - INSTALL PRECAST LINTEL, PREPARE & INSTALL METAL DOOR LINTEL	Wed 8/16/23	Tue 8/29/23	10 days																			
189	SWITCHGEAR ROOM B117E - INSTALL CMU OVER NEW DOOR LINTEL	Wed 8/16/23	Tue 8/22/23	5 days																			
190	SWITCHGEAR ROOM B117E - INSTALL NEW DOORS, FRAMES AND HARDWARE	Wed 8/23/23	Tue 9/12/23	15 days																			
191	SWITCHGEAR ROOM B117E - GROUT & PAINT AROUND NEW DOORS	Wed 9/13/23	Tue 9/19/23	5 days																			
192	400 HZ & SWITCHGEAR ROOMS - MECHANICAL	Mon 8/1/22	Fri 3/24/23	170 days																			
193	INSTALL NEW FCU - ALL COMPONENTS INCLUDED	Mon 8/1/22	Fri 8/12/22	10 days																			
194	ROUTE NEW CHWLS S/R AND CONDENSATE PIPING INTO EXISTING HEADER, CONNECT AND INSULATE	Mon 8/1/22	Fri 8/26/22	20 days																			
195	INSTALL AND CONNECT HVAC CONTROLS	Mon 11/21/22	Fri 12/2/22	10 days																			
196	HVAC TEST AND BALANCE	Mon 12/5/22	Fri 12/9/22	5 days																			
197	REMOVE EXISTING FCU AND RELATED EQUIPMENT	Mon 12/12/22	Fri 1/6/23	20 days																			
198	PATCH & PAINT WALL OPENINGS	Mon 3/20/23	Fri 3/24/23	5 days																			





PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE



ID	Task Name	Start	Finish	Duration	4/2, 2021 A S O I N D	HM 1, 2022 J F M A M J	HM 2, 2022 J A S O N D	HM 1, 2023 J F M A M J	HM 2, 2023 J A S O N D	HM 1, 2024 J F M A M J	HM 2, 2024 J A S O N D	HM 1, 2025 J F M A M J	HM 2, 2025 J A S O N D
199	<b>CONCOURSE C</b>	Fri 6/3/22	Tue 2/27/24	453 days									
200	<b>CONCOURSE - ELECTRICAL - CONDUIT TO ALL GATES</b>	Fri 6/3/22	Thu 11/17/22	120 days									
201	ELECTRICAL - INSTALL ALL CONDUITS, JUNCTION BOXES, AND ACCESSORIES REQUIRED TO SUPPLY POWER TO EACH GATE 400 HZ GPU UNIT	Fri 6/3/22	Thu 9/22/22	80 days									
202	ELECTRICAL - INSTALL ALL CONDUCTORS AND ACCESSORIES REQUIRED TO SUPPLY POWER TO 400 HZ GPU UNIT (TEMPORARY POWERED GATES)	Fri 6/3/22	Thu 11/17/22	70 days									
203	<b>400 HZ UNITS INSTALLATION W/ TEMPORARY POWER - FIELD BULLETIN #2</b>	Mon 12/12/22	Thu 12/29/22	14 days									
204	PREPARE TEMP POWER CONNECTIONS TO EACH GATE (NIGHT WORK)	Tue 12/27/22	Thu 12/29/22	3 days									
205	<b>GATE C8 (Concurrent Work with Gate B1) (Work extends to Saturday 12/10)</b>	Mon 12/12/22	Thu 12/15/22	4 days									
206	<b>GATE C12 (Concurrent Work with Gate B6) (Work extends to Saturday 12/17)</b>	Tue 12/20/22	Mon 12/26/22	5 days									
207	<b>GATE C1</b>	Mon 12/26/22	Thu 12/29/22	4 days									
208	<b>400 HZ ROOM - ELECTRICAL</b>	Fri 6/10/22	Mon 12/25/23	402 days									
209	ELECTRICAL - INSTALL TEMPORARY LIGHTING - ROOM C120E (IF NEEDED)	Fri 6/10/22	Thu 6/16/22	5 days									
210	ELECTRICAL - INSTALL & CONNECT PANEL ECB4	Tue 10/3/23	Mon 11/13/23	30 days									
211	ELECTRICAL - INSTALL & CONNECT PANEL MTS IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
212	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
213	ELECTRICAL - INSTALL & CONNECT PANEL IBC2	Tue 10/3/23	Mon 11/13/23	30 days									
214	ELECTRICAL - INSTALL & CONNECT PANEL IBC2	Tue 10/3/23	Mon 11/13/23	30 days									
215	ELECTRICAL - INSTALL ALL INTERCONNECTING CONDUITS & WIRES BETWEEN PANELS	Tue 10/3/23	Mon 11/13/23	30 days									
216	ELECTRICAL - INSTALL INTERNAL COMPONENTS IN ALL PANELS AS REQUIRED	Tue 10/3/23	Mon 11/13/23	30 days									
217	ELECTRICAL - INSTALL BUSWAY	Tue 10/3/23	Mon 12/18/23	30 days									
218	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 12/25/23	55 days									
219	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 12/25/23	60 days									
220	ELECTRICAL - INSTALL ALL COMPONENTS AND INTERCONNECTING CONDUITS BETWEEN PANELS & IBC1 SWITCHGEAR	Tue 10/3/23	Mon 11/13/23	30 days									
221	ELECTRICAL - INSTALL ALL INTERCONNECTING WIRES BETWEEN PANELS & IBC1 SWITCHGEAR	Tue 10/3/23	Mon 11/13/23	30 days									
222	ELECTRICAL - INSTALL ALL INTERCONNECTING WIRES BETWEEN PANELS & IBC1 SWITCHGEAR	Tue 10/3/23	Mon 11/13/23	30 days									
223	ELECTRICAL - INSTALL ALL INTERCONNECTING WIRES BETWEEN PANELS & IBC1 SWITCHGEAR	Tue 10/3/23	Mon 11/13/23	30 days									
224	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
225	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
226	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
227	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
228	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
229	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
230	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
231	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
232	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
233	ELECTRICAL - INSTALL & CONNECT PANEL IBC1	Tue 10/3/23	Mon 11/13/23	30 days									
234	<b>SWITCHGEAR ROOM - ELECTRICAL</b>	Tue 10/10/23	Tue 1/30/24	81 days									
235	ELECTRICAL - INSTALL BUSWAY	Tue 10/10/23	Tue 12/26/23	56 days									
236	ELECTRICAL - INSTALL EMS & RETROFIT DRAW-OUT BREAKERS FOR SIEMENS-ALLIS SUBSTATION	Tue 10/10/23	Tue 12/26/23	56 days									
237	ELECTRICAL - CONNECT BUSWAY	Wed 12/27/23	Tue 1/30/24	25 days									
238	<b>400 HZ &amp; SWITCHGEAR ROOMS - ELECTRICAL</b>	Wed 1/31/24	Tue 2/27/24	20 days									
239	ENERGIZE & COMMISSION ALL PANELS TO BE READY TO SUPPLY POWER TO NEW 400 HZ GPU UNITS	Wed 1/31/24	Tue 2/27/24	20 days									
240	<b>400 HZ &amp; SWITCHGEAR ROOMS - CONCRETE &amp; MASONRY</b>	Fri 2/3/23	Mon 10/16/23	182 days									
241	400 HZ ROOMS C120E - NEW DOOR OPENINGS - INSTALL REBAR PER DRAWINGS	Fri 2/3/23	Thu 2/9/23	5 days									
242	400 HZ ROOM C120E - PREPARE FORMWORK FOR OPENING, NEW HVAC AIR LOUVER.	Fri 2/3/23	Thu 2/9/23	5 days									
243	400 HZ ROOM C120E - POUR DOOR LINTEL	Fri 2/10/23	Thu 2/16/23	5 days									
244	400 HZ ROOMS C120E - INSTALL CMU OVER NEW DOOR - INSPECTION	Fri 2/10/23	Thu 3/2/23	15 days									
245	400 HZ ROOMS C120E - INSTALL NEW DOORS, FRAMES AND HARDWARE	Fri 3/3/23	Thu 3/23/23	15 days									
246	400 HZ ROOMS C120E - GROUT & PAINT AROUND NEW DOORS	Fri 3/24/23	Thu 3/30/23	5 days									
247	400 HZ ROOM C120E - FORM & POUR IBC1 CONCRETE PAD	Tue 9/19/23	Mon 10/16/23	20 days									
248	SWITCHGEAR ROOM C121E - NEW DOOR OPENINGS - INSTALL REBAR PER DRAWINGS	Tue 6/21/23	Tue 6/27/23	5 days									
249	SWITCHGEAR ROOM C121E - PREPARE FORMWORK FOR OPENING, POUR CONCRETE AS REQUIRED	Wed 6/21/23	Tue 6/27/23	5 days									
250	SWITCHGEAR ROOM C121E - PREPARE & INSTALL METAL DOOR LINTEL	Wed 6/28/23	Tue 7/4/23	5 days									
251	SWITCHGEAR ROOM C121E - INSTALL CMU OVER NEW DOOR W/ ALL INCLUDED	Wed 7/5/23	Tue 7/25/23	15 days									
252	SWITCHGEAR ROOM C121E - INSTALL NEW DOORS, FRAMES AND HARDWARE	Wed 7/5/23	Tue 7/25/23	15 days									
253	SWITCHGEAR ROOM C121E - GROUT & PAINT AROUND NEW DOORS	Wed 7/26/23	Tue 8/1/23	5 days									
254	<b>400 HZ &amp; SWITCHGEAR ROOMS - MECHANICAL</b>	Mon 8/22/22	Fri 3/17/23	150 days									
255	INSTALL NEW FCU - ALL COMPONENTS INCLUDED	Mon 8/22/22	Fri 9/2/22	10 days									



PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE



ID	Task Name	Start	Finish	Duration	Notes
276	ROUTE NEW CHWS/R AND CONDENSATE PIPING INTO EXISTING HEADER, CONNECT AND ISOLATE	Mon 8/22/22	Fri 9/16/22	20 days	
277	INSTALL AND CONNECT HVAC CONTROLS	Mon 9/5/22	Fri 9/16/22	10 days	
278	HVAC TEST AND BALANCE	Mon 9/19/22	Fri 9/23/22	5 days	
279	REMOVE EXISTING FCU AND RELATED EQUIPMENT	Mon 9/26/22	Fri 10/21/22	20 days	
280	PATCH & PAINT WALL OPENINGS	Mon 3/13/23	Fri 3/17/23	5 days	
281	<b>MILESTONE - CONCOURSE B &amp; C ELECTRICAL ROOMS READY FOR 400 HZ GPU UNITS</b>	Tue 2/27/24	Tue 2/27/24	0 days	
282	CONCOURSE B	Tue 12/27/22	Tue 6/25/24	391 days	
283	GATES - 400 HZ GPU UNITS - ELECTRICAL & BRIDGES	Wed 2/28/24	Tue 4/16/24	35 days	
284	GATE B5	Wed 3/6/24	Tue 3/5/24	5 days	
296	GATE B9	Wed 3/13/24	Tue 3/12/24	5 days	
300	GATE B8 (TWO UNITS)	Wed 3/20/24	Tue 3/19/24	5 days	
320	GATE B11	Wed 3/27/24	Tue 3/26/24	5 days	
322	GATE B14	Wed 4/3/24	Tue 4/2/24	5 days	
344	GATE B12	Wed 4/10/24	Tue 4/9/24	5 days	
356	GATE B10	Wed 4/17/24	Tue 5/14/24	20 days	
369	GATES - 400 HZ UNITS W/TEMPORARY POWER - CONNECT BACK TO SWITCHGEAR JBB1 - FIELD BULLETIN #2	Wed 4/17/24	Fri 4/19/24	3 days	
370	GATE B1 (INSTALL NEW HOIST)	Mon 4/22/24	Wed 4/24/24	3 days	
371	GATE B2 (TWO UNITS) (INSTALL NEW HOIST)	Thu 4/25/24	Mon 4/29/24	3 days	
372	GATE B3 (INSTALL NEW HOIST)	Tue 4/30/24	Thu 5/2/24	3 days	
373	GATE B4 (INSTALL NEW HOIST PUSH BUTTONS)	Fri 5/3/24	Tue 5/7/24	3 days	
374	GATE B6 (INSTALL NEW HOIST)	Wed 5/8/24	Fri 5/10/24	3 days	
375	GATE B7 (INSTALL NEW HOIST)	Mon 5/13/24	Tue 5/14/24	2 days	
376	SUBSTATION B - REPLACE CIRCUIT BREAKER PER FIELD BULLETIN #2 KEYED NOTE #3 (NIGHT WORK)	Tue 12/27/22	Tue 6/25/24	391 days	
377	CONDUITS TO ALL GATES - ELECTRICAL	Tue 12/27/22	Mon 3/20/23	60 days	
378	ELECTRICAL - REMOVE EXISTING CONDUITORS AND CAP EXISTING CONDUITS FOR FUTURE USE - TEMP POWERED GATES	Wed 3/20/24	Tue 6/25/24	70 days	
379	ELECTRICAL - REMOVE EXISTING CONDUITORS AND CAP EXISTING CONDUITS FOR FUTURE USE	Wed 3/16/24	Thu 5/23/24	57 days	
380	400 HZ & SWITCHGEAR ROOMS - FIRE PROTECTION & ELECTRICAL	Wed 3/13/24	Tue 4/9/24	20 days	
381	REMOVE EXISTING SPRINKLER SYSTEM	Wed 3/13/24	Tue 4/9/24	20 days	
382	400 HZ ROOM - INSTALL INERGEN CLEAN AGENT W/ALL COMPONENTS	Wed 3/13/24	Tue 4/9/24	20 days	
383	SWITCHGEAR & 400 HZ ROOMS - REROUTE EXISTING WET-PIPE MAINS AROUND ROOMS	Wed 3/13/24	Tue 4/9/24	20 days	
384	SWITCHGEAR & 400 HZ ROOMS - INSTALL NEW PREACTION SPRINKLER SYSTEMS W/ALL COMPONENTS INCLUDED	Wed 4/10/24	Tue 5/7/24	20 days	
385	SWITCHGEAR & 400 HZ ROOMS - INSTALL FIRE ALARM SYSTEM W/ALL COMPONENTS	Wed 5/1/24	Tue 4/30/24	15 days	
386	TEST & COMMISSION COMPLETE FIRE PROTECTION SYSTEM	Wed 5/8/24	Thu 5/9/24	2 days	
387	400 HZ ROOM - REMOVE TEMPORARY LIGHTS	Fri 5/10/24	Thu 5/7/24	10 days	
388	400 HZ ROOM - INSTALL NEW LIGHTING SYSTEM W/ALL ACCESSORIES	Wed 4/10/24	Tue 5/7/24	20 days	
389	400 HZ & SWITCHGEAR ROOMS - SECURITY & COMMUNICATIONS	Wed 4/10/24	Tue 5/7/24	20 days	
390	SECURITY - ROOMS B116E & B117E - INSTALL DOOR SECURITY SYSTEMS W/ALL COMPONENTS	Wed 4/10/24	Tue 5/7/24	20 days	
391	COMMUNICATIONS - ROOM B116E - INSTALL COMMUNICATIONS RACK W/ALL COMPONENTS	Wed 4/10/24	Tue 5/7/24	20 days	
392	400 HZ & SWITCHGEAR ROOMS - ELECTRICAL & CONCRETE	Wed 4/24/24	Tue 5/28/24	25 days	
393	REMOVE EXISTING 400 HZ GPU PANELS AND RELATED ELECTRICAL COMPONENTS	Wed 4/24/24	Tue 5/21/24	20 days	
394	DEMO EXISTING 400 HZ CONCRETE PAD AND PATCH	Wed 5/15/24	Tue 5/28/24	10 days	
395	CONCOURSE C	Tue 12/27/22	Thu 7/18/24	408 days	



PBIA - 400 HZ GPU POINT OF USE - ACG SCHEDULE



ID	Task Name	Start	Finish	Duration	1/2, 2021 A S O N D J J F M A M J J A S O N D J J F M A M J J A S O N D J J F M A M J J A S O N D J J F M A M J J A S O N D J J F
396	GATES - 400 HZ GPU UNITS - ELECTRICAL & BRIDGES	Wed 2/28/24	Thu 6/13/24	77 days	
397	GATE C5	Wed 2/28/24	Tue 3/5/24	5 days	
409	GATE C4	Wed 3/6/24	Tue 3/12/24	5 days	
421	GATE C6	Wed 3/13/24	Tue 3/19/24	5 days	
433	GATE C3	Wed 3/20/24	Tue 3/26/24	5 days	
445	GATE C7	Wed 3/27/24	Fri 4/5/24	8 days	
457	GATE C2	Mon 4/8/24	Wed 4/17/24	8 days	
469	GATE C9	Thu 4/18/24	Fri 4/26/24	7 days	
481	GATE C11 (TWO UNITS)	Mon 4/29/24	Wed 5/8/24	8 days	
493	GATE C10	Thu 5/9/24	Fri 5/17/24	7 days	
505	GATE C14	Mon 5/20/24	Mon 5/27/24	6 days	
517	GATE C15	Tue 5/28/24	Tue 6/4/24	6 days	
529	GATE C16	Wed 6/5/24	Thu 6/13/24	7 days	
542	GATES - 400 HZ UNITS W/TEMPORARY POWER - CONNECT BACK TO IBC1 SWITCHGEAR - FIELD BULLETIN #2	Fri 6/14/24	Wed 6/26/24	9 days	
543	C1 (INSTALL NEW HOIST)	Fri 6/14/24	Tue 6/18/24	3 days	
544	C8 (INSTALL NEW HOIST)	Wed 6/19/24	Fri 6/21/24	3 days	
545	C12 (INSTALL NEW HOIST)	Mon 6/24/24	Wed 6/26/24	3 days	
546	CONDUITS TO ALL GATES - ELECTRICAL	Tue 12/27/22	Wed 6/26/24	392 days	
547	ELECTRICAL - REMOVE EXISTING CONDUCTORS AND CAP EXISTING CONDUITS FOR FUTURE USE - TEMP POWERED GATES	Tue 12/27/22	Mon 3/20/23	60 days	
548	ELECTRICAL - REMOVE EXISTING CONDUCTORS AND CAP EXISTING CONDUITS FOR FUTURE USE	Thu 3/21/24	Wed 6/26/24	70 days	
549	400 HZ & SWITCHGEAR ROOMS - FIRE PROTECTION & ELECTRICAL	Wed 3/6/24	Tue 7/9/24	90 days	
550	REMOVE EXISTING SPRINKLER SYSTEM	Wed 3/6/24	Tue 3/12/24	5 days	
551	400 HZ ROOM - INSTALL INERGEN CLEAN AGENT W/ALL COMPONENTS	Wed 3/13/24	Tue 4/9/24	20 days	
552	SWITCHGEAR & 400 HZ ROOMS - REROUTE EXISTING WET-PIPE MAINS AROUND ROOMS	Wed 3/13/24	Tue 4/9/24	20 days	
553	SWITCHGEAR & 400 HZ ROOMS - INSTALL NEW PREACTION SPRINKLER SYSTEMS W/ALL COMPONENTS INCLUDED	Wed 3/13/24	Tue 4/23/24	30 days	
554	SWITCHGEAR & 400 HZ ROOMS - INSTALL FIRE ALARM SYSTEM W/ALL COMPONENTS	Wed 4/24/24	Tue 5/21/24	20 days	
555	TEST & COMMISSION COMPLETE FIRE PROTECTION SYSTEM	Wed 5/22/24	Tue 6/4/24	10 days	
556	400 HZ ROOM - REMOVE TEMPORARY LIGHTS	Wed 6/5/24	Tue 6/11/24	5 days	
557	400 HZ ROOM - INSTALL NEW LIGHTING SYSTEM W/ALL ACCESSORIES	Wed 6/12/24	Tue 7/9/24	20 days	
558	400 HZ & SWITCHGEAR ROOMS - SECURITY & COMMUNICATIONS	Wed 4/24/24	Tue 7/9/24	55 days	
559	SECURITY - ROOMS C120E & C121E - INSTALL DOOR SECURITY SYSTEMS W/ALL COMPONENTS	Wed 4/24/24	Tue 7/9/24	55 days	
560	COMMUNICATIONS - ROOM 120E - INSTALL COMMUNICATIONS RACK W/ALL COMPONENTS	Wed 4/24/24	Tue 7/9/24	55 days	
561	400 HZ & SWITCHGEAR ROOMS - ELECTRICAL & CONCRETE	Fri 6/14/24	Thu 7/18/24	25 days	
562	REMOVE EXISTING 400 HZ GPU PANELS AND RELATED ELECTRICAL COMPONENTS	Fri 6/14/24	Thu 7/11/24	20 days	
563	DEMO EXISTING 400 HZ CONCRETE PAD AND PATCH	Fri 7/5/24	Thu 7/18/24	10 days	
564	MILESTONE - SUBSTRUCTURE COMPLETION	Thu 7/18/24	Thu 7/18/24	0 days	
565	PHASE III - CLOSEOUT	Fri 7/19/24	Mon 8/19/24	22 days	
566	PUNCH LIST & CLOSEOUT DOCUMENTS	Fri 7/19/24	Mon 8/19/24	22 days	
567	MILESTONE - FINAL COMPLETION	Mon 8/19/24	Mon 8/19/24	0 days	

## ATTACHMENT B – FEE BREAKDOWN

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

RS&H, INC.  
 GPU POU Construction Administration & RPR - Extended Schedule  
 Task Authorization No. I-23-PBI-R-037

<u>Task</u>	<u>Description</u>	<u>Hours</u>	<u>Fee</u>
1	Construction Administration Services	29	\$7,542.92
2	Partial Resident Project Representative (RPR) Services	0	\$0.00
<b>Subtotal RS&amp;H Labor Hours</b>		<b>29</b>	
<b>Subtotal RS&amp;H Labor Fee</b>			<b>\$7,542.92</b>
<b>Subconsultants</b>			
	Quantum Electrical Engineering, Inc. (Maximum Fee, Not-To-Exceed)	1,116	\$160,366.46
<b>Subtotal Subconsultant Labor Hours</b>		<b>1,116</b>	
<b>Subtotal Subconsultant Fee</b>			<b>\$160,366.46</b>
<b>Expenses</b>			
<b>Subtotal Expenses</b>			<b>\$0.00</b>
<b>Total Project Fee</b>			<b>\$167,909.38</b>

**GPU POU Construction Administration & RPR - Extended Schedule**

Average Burdened Labor Rate

		HOURS			HOURS	TOTAL COST (\$)
		Principal	Sr. Project Manager	Admin. Assistant		
<b>Construction Administration Services (Lump Sum)</b>		\$349.99	\$287.02	\$60.37		
<b>Task 1</b>		<b>Construction Administration Services</b>				
1.1	Construction Progress Meetings <i>Project Manager</i>		19		19	\$5,453.38
1.2	Project Management and Project Coordination <i>Project Manager</i>	2	4	4	10	\$2,089.54
<b>Task Total</b>		<b>2</b>	<b>23</b>	<b>4</b>	<b>29</b>	<b>\$7,542.92</b>
<b>TOTAL FOR ALL TASKS (RS&amp;H)</b>		<b>2</b>	<b>23</b>	<b>4</b>	<b>29</b>	<b>\$7,542.92</b>

### GPU POU Construction Administration & RPR - Extended Schedule

Sub Consultant Effort by Major Task Item		Task 2	
Quantum Electrical Engineering, Inc.	<i>Electrical RPR</i>	\$ 160,366.46	\$160,366.46
<b>TOTAL SUBCONSULTANTS</b>			<b>\$160,366.46</b>

## ATTACHMENT C – SUBCONSULTANT PROPOSALS





September 15, 2023

RS&H, Inc.  
Mr. Keith Nix, PE, LEED AP  
Senior Aviation Buildings Engineer  
10748 Deerwood Park Blvd South,  
Jacksonville, FL 32256

Subject: Electrical Engineering Construction Administration (CA) Services Additional Fee Proposal for the Palm Beach County Department of Airports (DOA) - Palm Beach International Airport 400Hz Ground Power Unit (GPU) Replacement. Includes additional Task 3.2 RPR services for additional time due to project duration increases.

Dear Keith:

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 400Hz Ground Power Unit (GPU) Replacement additional RPR services for additional time due to project duration increases.

The following tasks are included in our scope:

**Task 2: Resident Project Representative (RPR) Services**

**Task 2.1: Additional Partial Resident Project Representative (RPR) Services**

- Includes part-time RPR services of on-site presence and observation for up to five visits per week, 6 hours per visit for an additional 38 weeks.
- Includes a written observation report, documenting the findings of each site visit.
- Includes attendance at up to an additional 38 progress construction meetings.

Our proposed Not-To-Exceed Fee for Task 2.1 is:	<u>\$ 160,366.46</u>
<b>Our proposed total fee is:</b>	<b>\$ 160,366.46</b>

(See Attachment for Breakdown)

Sincerely,

Amy Champagne-Baker, PE  
President

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

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

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

**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- PBIA 400HZ GPU REPLACEMENT  
 QUANTUM ELECTRICAL ENGINEERING, INC.  
 ADDITIONAL SCOPE FEE SUMMARY  
 FEE PROPOSAL ELECTRICAL SERVICES TO RS&H 09/15/2023**

	Rate	\$169.30		\$151.16		\$145.11		\$72.56		\$139.06		\$48.37		Lump Sum		TOTAL TASK COST
		Proj. Mgr. Hours	Prof. Eng Hours	Proj. Eng Hours	CADD/Tech Hours	Field Eng. Hours	Clerical Hours	Total Hours	Task							
PHASE OF WORK																
<b>Task 2: Project Closeout</b>																
Task 2.1: Partial Resident Project Representative (RPR) Services (38 weeks visits at 30hrs ea)										1140		38	1178			\$160,366.46
<b>Subtotal</b>		0	0	0	0	0	0	0	0	1140		38	1178			\$160,366.46
<b>Grand Total Hours</b>		0	0	0	0	0	0	0	0	1140		38	1178			
<b>Grand Total Labor Cost</b>		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$159,528.40		\$1,838.06				\$160,366.46

**EXHIBIT A-3 – 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).

<b>TASK LEVEL / NO.</b>	<b>DESCRIPTION</b>	<b>BUDGET</b>
Task III-19-DOA-R-001	<b>Misc. AEP and Construction Consulting Services Amendment #10</b>	\$ 0.00
<b>Sub-total (Level 3)</b>		\$ 0.00

**EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS**

**EXHIBIT B-1: Summary of Fees**

This Amendment #10, as described herein, consists of multiple tasks. As summarized below, these initial efforts have an overall budget of:  
 \$ 395,406.12

**LEVEL 1 TASKS:**

TASK Level / No.	DESCRIPTION	LUMP SUM	NOT-TO-EXCEED	REIMBURSABLE EXPENSES	TOTAL
I-23-PBI-R-036	New ARFF Facility – Phasing Services	\$ 227,496.74	\$ -	\$ -	\$ 227,496.74
I-23-PBI-R-037	400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule	\$ 7,542.92	\$ 160,366.46	\$ -	\$ 167,909.38

**LEVEL 3 TASKS:**

TASK LEVEL / NO.	DESCRIPTION	TOTAL
Task III-19-DOA-R-001	Misc. AEP and Construction Consulting Services Amendment #10	\$ -

<b>Grand Total (Amendment #10)</b>	\$ 395,406.12
------------------------------------	---------------

**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”<sup>1</sup> 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 #10:

**LEVEL 1 TASKS:**

**Task I-23-PBI-R-036     New ARFF Facility – Phasing Services**

Compensation:                     \$   227,496.74

**Task I-23-PBI-R-037     400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule**

Compensation:                     \$   167,909.38

**LEVEL 3 TASKS:**

**Task III-19-DOA-R-001**

**Misc. AEP and Construction Consulting Services Amendment #10**

Duration: As required in accordance with specific Task Authorizations

Compensation: \$ -

<b>TOTAL = \$ 395,406.12</b>
------------------------------

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-036**

**New ARFF Facility – Phasing Services**

Duration: 94 Working Days  
(~129 Calendar Days)

**Task I-23-PBI-R-037**

**400Hz GPU Replacement Construction Administration & RPR Services - Extended Schedule**

Duration: Tied to Contractor Construction Schedule  
(38) Additional Weeks

**EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE**

**Table D-1** summarizes the estimated fee for each of our team members that are certified DBE firms for Amendment 10.

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

<b>Firm</b>	<b>Amendment 10 Totals</b>	<b>% of Amendment 10</b>
Quantum Electrical Engineering, Inc	\$ 160,366.46	40.56%
Master Consulting Engineering, Inc.	\$ 55,950.30	14.15%
CRJ and Associates	\$ 10,087.04	2.55%

**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 (R2023-0447) Totals	Amendment 8 (R2023-0532) Totals	Amendment 9 (R2023- ) Total	Amendment 10 (R2023- ) Total	Total Fees	% of Total Contract
Colome'	\$ 73,966.80	\$ 164,286.41	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 238,253.21	1.55%
Tierra South Florida	\$ 28,715.00	\$ 26,985.00	\$ 29,240.00	\$ -	\$ 3,165.00	\$ -	\$ 17,175.00	\$ 1,750.00	\$ -	\$ -	\$ 107,030.00	0.70%
Brown & Phillips	\$ 20,021.45	\$ 18,202.62	\$ 18,979.53	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 57,203.60	0.37%
CECOS	\$ -	\$ 5,403.70	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,403.70	0.04%
Mobio	\$ 161,533.98	\$ -	\$ 176,600.00	\$ 323,400.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 661,533.98	4.31%
Lakdas-Yohalem	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0.00%
Connico	\$ 90,000.00	\$ 9,300.00	\$ 69,000.00	\$ -	\$ 8,926.00	\$ 70,200.00	\$ -	\$ 64,200.00	\$ -	\$ -	\$ 311,626.00	2.03%
Digital Building Services	\$ -	\$ -	\$ 183,689.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 183,689.00	1.20%
Master Consulting Engineers	\$ -	\$ 83,865.96	\$ 4,960.00	\$ 32,078.44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 55,950.30	\$ 176,854.70	1.15%
Quantum	\$ -	\$ 181,491.77	\$ 1,232,154.40	\$ 149,029.00	\$ 542,155.33	\$ 554,206.67	\$ 96,356.58	\$ 177,962.21	\$ 23,726.37	\$ 160,366.46	\$ 3,117,448.79	20.29%
Air Projects	\$ -	\$ -	\$ 3,412.31	\$ -	\$ 11,207.68	\$ 17,735.01	\$ -	\$ -	\$ -	\$ -	\$ 32,355.00	0.21%
CRI	\$ -	\$ 117,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,087.04	\$ 127,587.04	0.83%
<b>TOTALS</b>	<b>\$ 374,237.23</b>	<b>\$ 607,035.46</b>	<b>\$ 1,718,035.24</b>	<b>\$ 504,507.44</b>	<b>\$ 565,454.01</b>	<b>\$ 642,141.68</b>	<b>\$ 113,531.58</b>	<b>\$ 243,912.21</b>	<b>\$ 23,726.37</b>	<b>\$ 226,403.80</b>	<b>\$ 5,018,985.02</b>	<b>32.67%</b>

**Notes:**

1. Values in red differ from Amendment 10 Table D-2
2. "Total Fees" revisions  
Total value varies as values creating the summation changed.
3. "% of Total Contract" revisions  
Total value varies as values creating the %'s changed.

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

LO/SOQ Project Description: RS&H, Inc.  
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 10  
 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 Engineering, Inc.	Electrical Engineering Design Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	40.56%	_____%
Master Consulting Engineering, Inc.	Structural Engineering Design Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	14.15%	_____%	_____% (Asian / Pacific)
CRJ Associates, Inc.	Civil Engineering Design Services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	2.55% (FDOT DBE)
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____%	_____%	_____%	_____%

**Total Percentage of DBE Participation: 57.26 %**

- 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 <sup>to ensure</sup> ~~to ensure~~ that the work is actually performed by the DBE Firms.

By: Pat Hargrove Date: 10/4/2023

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

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

Airport Facilities & Systems Planning, Design, Engineering and Construction Management Professional  
LOI/SOQ Project Description: 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:** 40.56 %

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)	(Percentage of work to be subcontracted)	%	<input type="checkbox"/> DBE Certified <input type="checkbox"/> 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: 9/25/2023

**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: Master Consulting Engineers, 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):

Supporting Structural Engineering Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 14.15 %

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

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

(Name of Subcontractor)	(Percentage of work to be subcontracted)	%	<input type="checkbox"/> DBE Certified <input type="checkbox"/> 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.**

Master Consulting Engineers, Inc.

Printed Name of DBE Subcontractor \_\_\_\_\_

By: ARMANDO CASTELLON

Signature

Date: 9/28/2023

**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: CRJ & Associates, Inc.

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

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

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

Civil Engineering Design Services

(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 2.55 %

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:**

	%	<input type="checkbox"/> DBE Certified
<small>(Name of Subcontractor)</small>	<small>(Percentage of work to be subcontracted)</small>	<input type="checkbox"/> 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.**

CRJ & Associates, Inc.

Printed Name of DBE Subcontractor \_\_\_\_\_

By: Marc Fermanian

35B0DAE77C2347E

Signature

Date: 9/25/2023