







December 26, 2023

Palm Beach County Department of Airports  
ATTN: Ms. Cynthia Portnoy, Deputy Director of Development  
846 Palm Beach International Airport  
West Palm Beach, Florida 33406-1470

RE: PBI Central Airfield Improvements for the Palm Beach County Department of Airports  
Amendment No. 2 to Contract

Dear Ms. Portnoy:

HDR is pleased to submit for your review and approval the Amendment No. 2 for the Central Airfield Improvements Contract for the Palm Beach County Department of Airports. The proposed total professional fee is not to exceed \$205,322.23. The following support documents are included in this submittal:

- Proof of Signatory Authority
- Certificate of Insurance
- Amendment No. 2
- General Exhibits, including:
  - Exhibit A – Amendment No. 2
  - Exhibit B - Detailed Fees, Expenses and Payments
  - Exhibit C - Proposed Schedules
  - Exhibit D - Disadvantaged Business Enterprise Compliance

hdrinc.com

1475 Centrepark Blvd., Suite 230, West Palm Beach, FL 33401-7425  
(561) 209-6600

Please contact me if you have any questions regarding this transmittal. My direct phone is (561) 209-6641.

Sincerely,  
HDR Engineering, Inc.

A handwritten signature in cursive script that reads "Cody Parham".

Cody Parham, P.E.  
Project Manager

cc:  
Michael Giambone - PBCDOA  
George Santos - PBCDOA  
Will Bowdoin - HDR

**CERTIFICATE**

The undersigned hereby certifies that she is the Assistant Secretary of HDR Engineering, Inc., a Nebraska corporation (the "Corporation"), and that, as such, has custody of the minute books of the Corporation, and that, by Consent and Agreement of the Board of Directors, the following resolution was unanimously adopted:

1. **"RESOLVED**, that effective immediately, and until termination of said individual from the Corporation, or until rescission by the Corporation's Board of Directors, whichever occurs first, the following individuals are hereby granted the nondelegable authority to execute or approve on behalf of the Corporation, contracts, amendments or change orders for engineering services and architectural services incidental to engineering services to be rendered by the Corporation, . . . , or releases of claim or lien in connection with such services, such contracts, amendments, change orders or releases so executed or approved shall be binding upon the Corporation:

- . . . Jennifer E. Hunt – Senior Vice President . . .
- . . . Harold E. Lewis, Jr. – Senior Vice President . . .
- . . . L. Kevin Mosteller – Senior Vice President . . .
- . . . Melanie E. Fowler – Vice President . . .
- . . . George W. McGregor – Vice President . . .
- . . . Erki Suarez – Vice President . . .
- . . . Katie E. Duty – Vice President . . .
- . . . John E. Wimberly – Vice President . . .
- . . . Jeffrey B. Arms – Associate Vice President . . .
- . . . Matt D. Bell – Authorized Representative . . ."

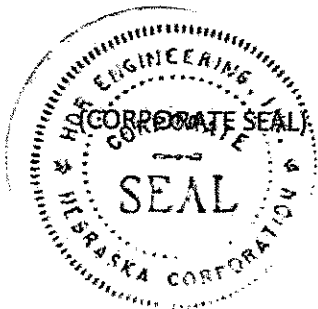
2. **"RESOLVED**, that the following are elected officers of the Corporation until their successors are elected and qualified:

- . . . Stephen J. Ferrell – Senior Vice President . . .
- . . . Jennifer E. Hunt – Senior Vice President . . .
- . . . Chance V. Lauderdale – Senior Vice President . . .
- . . . Andrew E. Lauzier – Senior Vice President . . .
- . . . Harold E. Lewis, Jr. – Senior Vice President . . .
- . . . Kent L. McWaters – Senior Vice President . . .
- . . . L. Kevin Mosteller – Senior Vice President . . .
- . . . Jay C. Nagle – Senior Vice President . . .
- . . . Guillermo J. Suero – Senior Vice President . . .
- . . . Brenda Van Ravenswaay – Senior Vice President . . .
- . . . Brian A. Blanchard – Vice President . . .
- . . . Samuel D. Cobb – Vice President . . .
- . . . Stephen W. Dortch – Vice President . . .
- . . . Katie E. Duty – Vice President . . .
- . . . Melanie E. Fowler – Vice President . . .

... John M. Hansen – Vice President ...  
... Lew R. Herrington – Vice President ...  
... Donald R. Holcomb – Vice President ...  
... John B. Hyre – Vice President ...  
... Carlos C. Lopez-Paniagua – Vice President ...  
... George W. McGregor – Vice President ...  
... Kristina M. Price – Vice President ...  
... Thomas A. Quinn – Vice President ...  
... Marlin A. Register II – Vice President ...  
... Mark G. Roberts – Vice President ...  
... Santanu Roy – Vice President ...  
... Steven J. Schnell – Vice President ...  
... Erki Suarez – Vice President ...  
... John E. Wimberly – Vice President ...  
... Jeffrey B. Arms – Associate Vice President ...  
... W.D. D. Baldwin – Associate Vice President ...  
... Lisa C. Bell – Associate Vice President ...  
... Jonathon D. Burchfield – Associate Vice President ...  
... Brad B. Collins – Associate Vice President ...  
... Raphael C. Costa – Associate Vice President ...  
... Ted E. Davidson – Associate Vice President ...  
... Mark E. Hall – Associate Vice President ...  
... Keith A. Howard – Associate Vice President ...  
... Warren F. Jenik – Associate Vice President ...  
... Javier Manso – Associate Vice President ...  
... Daniel S. Suarez – Associate Vice President ...  
... Leonel A. Zapata – Associate Vice President ...  
... Elizabeth C. Buell – Assistant Secretary ...  
... Laurie S. Vik – Assistant Secretary ...”

The undersigned further certifies that the foregoing resolution has been spread in full upon the minute books of the Corporation and is in full force and effect.

DATED August 19, 2022.




  
Elizabeth C. Buell, Assistant Secretary

STATE OF NEBRASKA  
COUNTY OF DOUGLAS

On this 19<sup>th</sup> day of August, 2022, before me personally appeared Elizabeth C. Buell, known to me to be the person who executed the within instrument as Assistant Secretary of and on behalf of the corporation therein named and acknowledged to me that the corporation executed it.

(NOTARY SEAL)

  
Hilarie Calek, Notary Public

State of Nebraska -- General Notary  
HILARIE CALEK  
My Commission Expires  
March 25, 2023

**REPLACE THIS SHEET WITH THE COIs**



**AMENDMENT NO. 2 TO CONTRACT  
BETWEEN  
PALM BEACH COUNTY DEPARTMENT OF AIRPORTS  
AND  
HDR ENGINEERING, INC.  
FOR  
CONSULTING / PROFESSIONAL SERVICES AT  
PALM BEACH COUNTY AIRPORTS**

This Amendment No. 2 to the Contract is made as of the 5<sup>th</sup> day of March, 2024, 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 **HDR Engineering, 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 470680568.

**WITNESSETH**

WHEREAS, on April 4, 2017, the COUNTY entered into an Agreement (R-2017-0409) 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 September 2, 2020, the COUNTY approved Consultant Services Authorization 1-HDR-2020-PBIA to Agreement (R-2017-0409) with the CONSULTANT; and

WHEREAS, on April 9, 2021, the COUNTY approved Consultant Services Authorization 2-HDR-2021-PBIA to Agreement (R-2017-0409) with the CONSULTANT; and

WHEREAS, on November 16, 2022, the COUNTY approved Consultant Services Authorization 3-HDR-2022-PBIA to Agreement (R-2017-0409) with the CONSULTANT; and

WHEREAS, on May 31, 2023, the COUNTY approved Consultant Services Authorization 4-HDR-2023-PBIA to Agreement (R-2017-0409) with the CONSULTANT; and

WHEREAS, on July 11, 2023, the COUNTY approved Consultant Services Authorization 5-HDR-2023-PBIA Amendment 1 (R-2023-0977) to Agreement (R-2017-0409) with the CONSULTANT; and

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

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

1. The parties hereby agree to amend the Contract to include the Scope of Services and Fees as outlined in Exhibit A. The total amount to be paid by the COUNTY to the CONSULTANT for professional services, including any out of pocket expenses, shall not exceed Two Hundred Five Thousand, Three Hundred Twenty-Two Dollars and 23 Cents (\$205,322.23) for the services in Amendment No. 2 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.

HDR ENGINEERING, INC.  
MARCH 2024

AMENDMENT 2 TO R-2017-0409  
CONTRACT FOR CONSULTING SERVICES

IN WITNESS WHEREOF, the parties have caused the Second 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, HDR Engineering, Inc., has caused these presents to be signed in its corporate name by its duly authorized officer Katie E. Duty, Vice President, acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:  
JOSEPH ABRUZZO  
CLERK OF THE CIRCUIT COURT  
& COMPTROLLER

PALM BEACH COUNTY, FLORIDA  
BOARD OF COUNTY COMMISSIONERS:

By: \_\_\_\_\_  
Deputy Clerk

By: \_\_\_\_\_  
Maria Sachs, Mayor

WITNESS:  
Lilia Gonzalez  
SIGNATURE

CONSULTANT:  
HDR Engineering, Inc.  
COMPANY NAME

Lilia Gonzalez  
Name (type or print)

Katie E Duty  
Signature

APPROVED AS TO FORM  
AND LEGAL SUFFICIENCY

Katie E. Duty  
Name (type of print)

By: Anne Welford  
County Attorney

Vice President  
Title

APPROVED AS TO TERMS  
AND CONDITIONS

(Corporate Seal)

By: Laura Baker  
Director of Airports

# AMENDMENT NO. 2 INDEX

## **CERTIFICATE OF INSURANCE**

### **EXHIBIT A: AMENDMENT NO. 2**

EXHIBIT A-1 – Task 6-HDR-2024-PBIA: Central Airfield Improvements Add Design 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
DX00000767	HDR Engineering, Inc.	Modified	Compliant with Minor/Expiring Deficiencies					DOA 18-2B	Airport Civil Consulting Services
		Ap , XV	Liberty Mutual Fire Insurance Company	AS2641444950043	6/1/2023	6/1/2024	Auto Liability		
		Ap , XV	The Ohio Casualty Insurance Company	EUO2357919363	6/1/2023	6/1/2024	Excess Liability		
		Ap , XV	Liberty Mutual Fire Insurance Company	TB2-641-444950-033	6/1/2023	6/1/2024	General Liability		
		A , XV	Lloyds Underwriters (Canada Branch)	P001412300	6/1/2023	6/1/2024	Professional Liability		
		Ar , XV	Liberty Insurance Corporation	WA7-64D-444950-013	6/1/2023	6/1/2024	Workers Comp		

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

**EXHIBIT A: AMENDMENT NO. 2**

This Amendment No. 2 is in accordance with the Contract for Consulting/Professional Services (Agreement R-2017-0409) between Palm Beach County (COUNTY) and HDR Engineering, Inc. (CONSULTANT) dated April 4, 2017.

**CERTIFICATE OF INSURANCE**

**EXHIBIT A: AMENDMENT NO. 2**

EXHIBIT A-1 – Task 6-HDR-2024-PBIA: Central Airfield Improvements Add Design Services

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

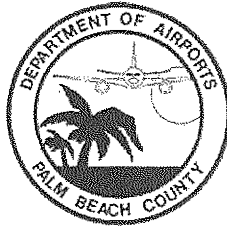
EXHIBIT B-I: Summary of Fees  
EXHIBIT B-II: Schedule of Payments

**EXHIBIT C – PROPOSED SCHEDULES**

**EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE**

**EXHIBIT A-1 – Task 6-HDR-2024-PBIA: Central Airfield Improvements Add Design Services**

# Palm Beach County Department of Airports



## Professional Airfield Design and Engineering Services for the Airfield Pavement Rehabilitation and Reconstruction Improvements

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**Task Authorization No. 6-HDR-2024-PBIA**

**Palm Beach International Airport (PBI)**

**Supplemental Design Services**



1475 Centrepark Boulevard, Suite 230  
West Palm Beach, FL 33401

March 2024





## EXHIBIT 'A'

### SCOPE OF SERVICES

Description of the services outlined below in Section 0.0 - General is intended to be general in nature and should not be construed to be a complete description of the services or a limitation on the Scope of Services to be provided. Refer to Sections 1 through 8 for the definition of specific scope items to be performed by CONSULTANT.

#### 0. GENERAL

##### 0.1 THE PROJECT

The Palm Beach County (COUNTY) Department of Airports' (PBCDOA) Palm Beach International Airport (PBI) is designated as a medium hub primary commercial service airport and serves helicopters, reciprocating engine aircraft, and jet aircraft.

After completion of design, bid phase, and partial construction phase services for the project, known as the 'Central Airfield Improvements', the PBCDOA wishes for the CONSULTANT to provide:

- Supplemental design for the Taxiways F & H pavement maintenance scope
- Investigation and repair design for the void observed adjacent to 'Inlet 01' in the southeast commercial ramp.

##### PROJECT DESCRIPTION AND GENERAL SCOPE

The project consists of rehabilitation, reconstruction, and relocation of airfield pavements. The services consist of the following scope items:

- Taxiway F&H Rehabilitation Design
  - Supplemental design to the previously developed construction documents for the rehabilitation of Taxiways F and H with the reconfiguration of the Taxiway L/F intersection to eliminate the FAA-designated Hot Spot 2. Conceptual layout of the new Taxiway L/F intersection is provided in Figure 1. This is a value engineering design of 'Alternate 1' in the original bid documents. 'Alternate 1' was not awarded due to cost.
- Inlet 01 Void Investigation and Repair Design.
  - Upon discovery of a subsurface void adjacent to a stormwater inlet in the terminal ramp near the intersection of Taxiways M and C8, DOA requests for HDR to investigate the cause of the void and prepare design documents to repair the area as shown in Figure 2.

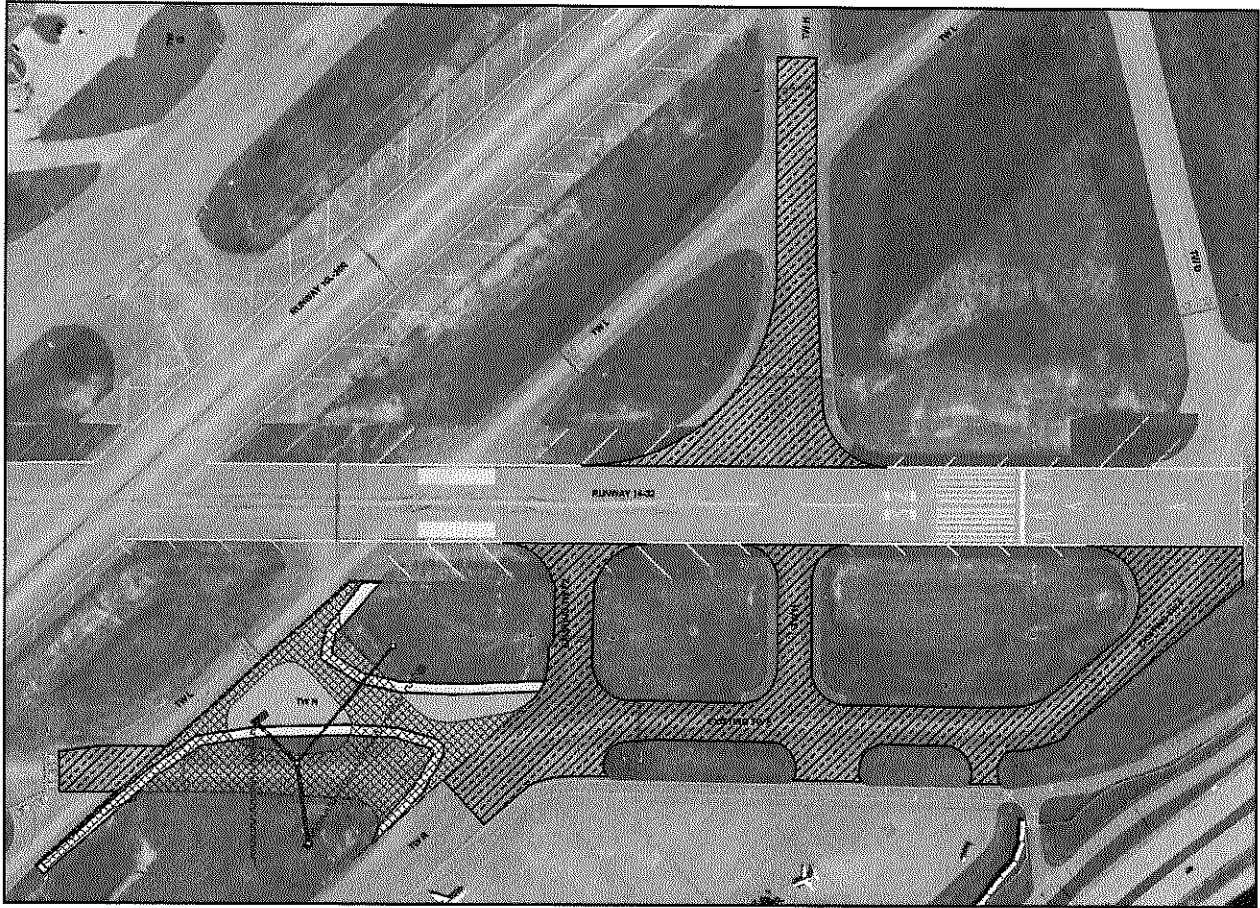


Figure 1 Taxiways F & H Additional Scope Exhibit

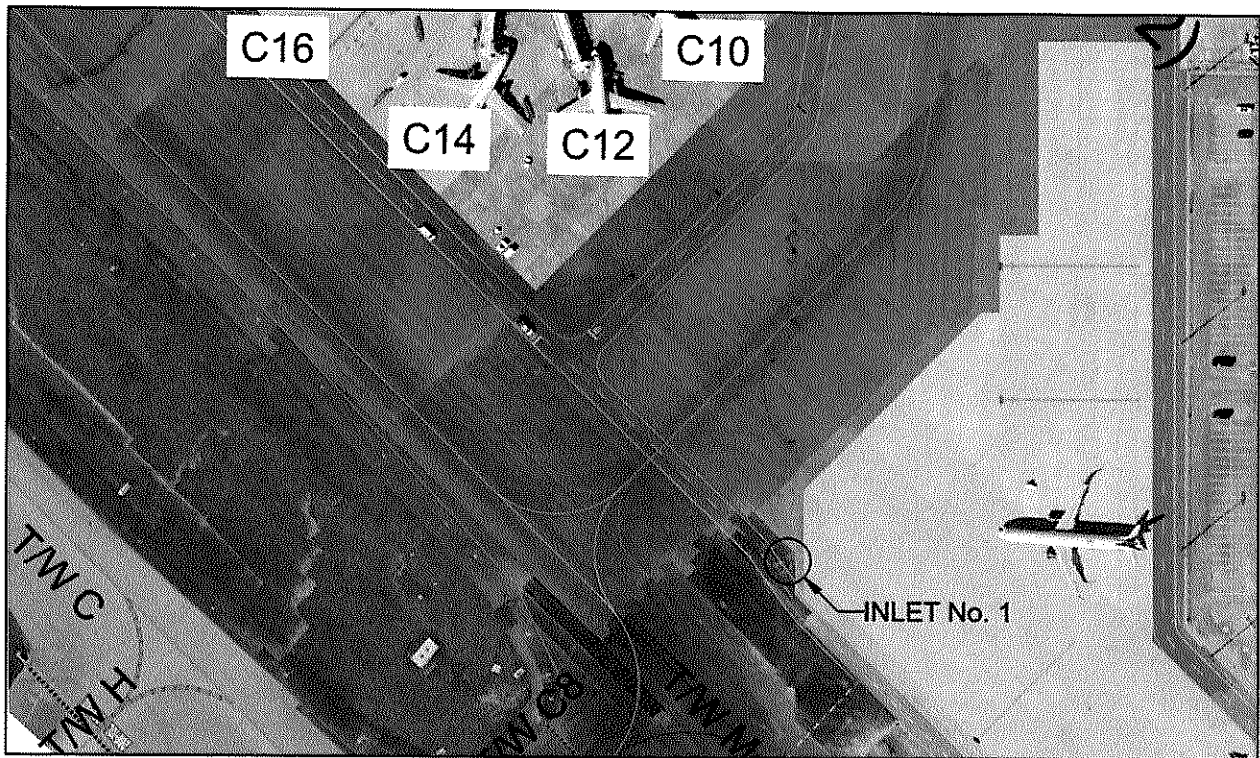


Figure 2 Inlet 01 Repair Exhibit

1. **Phase 1A: Planning and Programming**
  - 1.1. Not a part of this work.
2. **Phase 1B: Schematic Design**
  - 1.1. Not a part of this work.
3. **Phase 2: Design Development**
  - 1.1. Not a part of this work.
4. **Phase 3A: 60% Construction Documents**
  - 4.1. Not a part of this work.
5. **Phase 3B: 90% Construction Documents**
  - 5.1. Not a part of this work.
6. **Phase 3C: 100% Construction Documents**
  - 6.1. Not a part of this work.
7. **Phase 4: Bidding and Award**
  - 7.1. Not a part of this work.

**8. Phase 5: Construction**

**Task 1 Taxiway L/F Intersection Design (Lump Sum)**

The purpose of this task is to develop construction documents for the reconfiguration of the Taxiway L/F intersection as shown in Figure 1. This is a value engineering design of 'Alternate 1' in the original bid documents. 'Alternate 1' was not awarded due to cost. The Consultant will produce the work products shown below. Consultant shall package the additional design documents for implementation into the ongoing construction of the Central Airfield Improvements project.



- Wildlife survey, permitting, and burrow collapse. (Subconsultant CECOS).
  - 3 days of HDR escort of field staff
  - HDR prepare work limits exhibits in GIS format and coordinate permit application info and payment requested by CECOS.
- Drawings
  - Drawing Index
  - Signature Sheet
  - Summary of Quantities
  - Phasing Plan
  - Demolition Plans
  - Grading Plans
  - Drainage plans and details (Assisted by Subconsultant CMA)
  - Geometry Plans
  - Typical Sections and Paving Details
  - Pavement Elevation Plans
  - Pavement Marking Plans
  - Electrical demolition plans (Subconsultant QEE)
  - Electrical lighting and signage layout plans (Subconsultant QEE)
  - Electrical details (Subconsultant QEE)
- Amended Construction Safety and Phasing Plan (CSPP)
- Opinion of probable construction cost
- Construction schedule
- Revised front end and technical specifications
- Application for Environmental Resource Permit (ERP) letter modification to the South Florida Water Management District (SFWMD).

The consultant will submit the draft design documents to the PBCDOA for review and comment. Consultant will address DOA comments and provide a comment response letter detailing how each comment was addressed. Consultant will submit updated construction documents to the PBCDOA.

#### **Task 2 Inlet 01 Void Investigation and Repair Design (Lump Sum)**

The purpose of this task is to determine the likely cause and develop construction documents for the repair of the void observed adjacent to 'Inlet 01' in the southeast corner of the Commercial Ramp. Consultant shall package the additional design documents for implementation into the on-going construction of the Central Airfield Improvements project.

- Investigation
  - Field investigation to characterize the conditions that may have contributed to the subsurface void adjacent to Inlet 01.
    - HDR 3 days
  - Review of historic design documents and investigation data provided by the DOA.
- Drawings
  - Maintenance of Traffic Plan
  - Demolition Plans
  - Typical Sections and Paving Details
  - Polyurethane injection plans and details
- Technical specifications
- Construction administration
  - Review of contractor's request for change order
  - Review of technical submittals
- Construction RPR. Provides an on-site RPR for 5 days of construction.



**9. Project Schedule**

**Task 1 Taxiway L/F Intersection Design**

- Draft deliverables to be provided within 1 month of NTP
- Final deliverables to be provided within 2 weeks of receipt of PBCDOA comments

**Task 2 Inlet 01 Investigation and Repair Design**

- Deliverables to be provided within 1 week of NTP

Table 2. Deliverables by Phase

Task	Deliverables
<b>Task 1 Taxiway L/F Intersection Design</b>	<ul style="list-style-type: none"> <li>• Drawings (1 hard copy 11x17 if requested, PDF, AutoCAD 2018.dwg)</li> <li>• Front end and technical specifications</li> <li>• CSPP</li> <li>• OPC</li> <li>• Summary of Quantities</li> <li>• Construction Schedule</li> <li>• SFWMD Letter Modification Application</li> <li>• Review and incorporation of DOA comments</li> <li>• All submittals in PDF format unless noted</li> </ul>
<b>Task 2 Inlet 01 Investigation and Repair Design</b>	<ul style="list-style-type: none"> <li>• Drawings (1 hard copy 11x17 if requested, PDF, AutoCAD 2018.dwg)</li> <li>• Technical specifications</li> <li>• All submittals in PDF format unless noted</li> </ul>

**Team Roles**

Firm	Description
<b>HDR</b>	<ul style="list-style-type: none"> <li>• Project management</li> <li>• Design</li> <li>• Construction administration and RPR</li> </ul>
<b>CECOS*</b>	<ul style="list-style-type: none"> <li>• Wildlife permitting and mitigation with unused funds from tasks 4 and 5-HDR-2023-PBIA. If funds are insufficient to complete this work, CECOS will be entitled to additional compensation through a future CSA or amendment under this contract.</li> </ul>
<b>Chen Moore and Associates</b>	<ul style="list-style-type: none"> <li>• Stormwater Investigation and Design</li> </ul>
<b>Quantum Electrical Engineering*</b>	<ul style="list-style-type: none"> <li>• Electrical design</li> </ul>

\*DBE Firm

**ASSUMPTIONS**

- If construction extends beyond the timeframe stated in this Task Order, additional services may be required.
- OPC will be based on bid unit prices established in the CAI project.
- Coordination with Federal Aviation Administration (FAA) to identify FAA underground facilities will be conducted by PBCDOA.
- A 10-year design life will be used for the Taxiway L/F intersection design
- Opinions of probable project cost or probable construction cost provided by Consultant are made on the basis of information available to Consultant and on the basis of Consultant's experience and qualifications and represents its judgment as an experienced and qualified professional engineer. However, since Consultant has no control over the cost of labor, materials, equipment or services



furnished by others, or over the construction contractor(s)' methods of determining prices, or over competitive bidding or market conditions, Consultant does not guarantee that proposals, bids or actual project or construction cost will not vary from opinions of probable cost Consultant prepares.

- Consultant's observation or monitoring portions of the work performed under construction contracts shall not relieve construction contractor(s) from responsibility for performing work in accordance with applicable contract documents. Consultant shall not control or have charge of, and shall not be responsible for, construction means, methods, techniques, sequences, procedures of construction, health or safety programs or precautions connected with the work and shall not manage, supervise, control or have charge of construction. Consultant shall not be responsible for the acts or omissions of construction contractor(s) or other parties on the project.

**EXCLUSIONS**

- Construction services for the Taxiway L/F design



**Subconsultant Contract**

**CECOS**



November 15, 2023

Mr. Cody Parham  
HDR  
1475 Centrepark Boulevard – Suite 230  
West Palm Beach, FL 33401-7412

**RE: Burrowing Owl Environmental Services Proposal Amendment 2**  
Palm Beach County International Airport  
Central Airfield Improvements

Dear Mr. Parham,

Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit this updated proposal to HDR to provide professional environmental services associated within the Palm Beach County International Airport (PBI) Central Airfield Improvements project- Taxiway F relocation (see **Figure 1**). Based on our knowledge of the project area, it is anticipated that Florida burrowing owl (*Athene cunicularia*) burrows are present within the airport's Runway Safety Areas (RSA) and Taxiway Safety Areas (TSA). Burrowing owls are state-listed as threatened and are protected under F.A.C. Rule 68A-27.003, 68A-27.001, 68A-16.001, 68A-4.001, and the Migratory Bird Treaty Act. Also pursuant to F.A.C., Rule 68A-9.012 *Take of Wildlife on Airport Property*, any burrows located within airport RSA or TSA zones are not regulated by Florida Fish and Wildlife Conservation Commission (FWC) and do not require a permit to scope and collapse burrows. PBI has an existing USFWS Depredation Permit (#MB673729-0). If impact to areas outside the RSA and TSA occurs, then a FWC Migratory Bird Nest Removal Permit will be required. It is our understanding that work outside the RSA/TSA will occur. CECOS will conduct one preconstruction burrowing owl survey, permit, if needed, and collapse potentially occupied, inactive burrows. The specific scope of services is presented below.

## I. SCOPE OF SERVICES

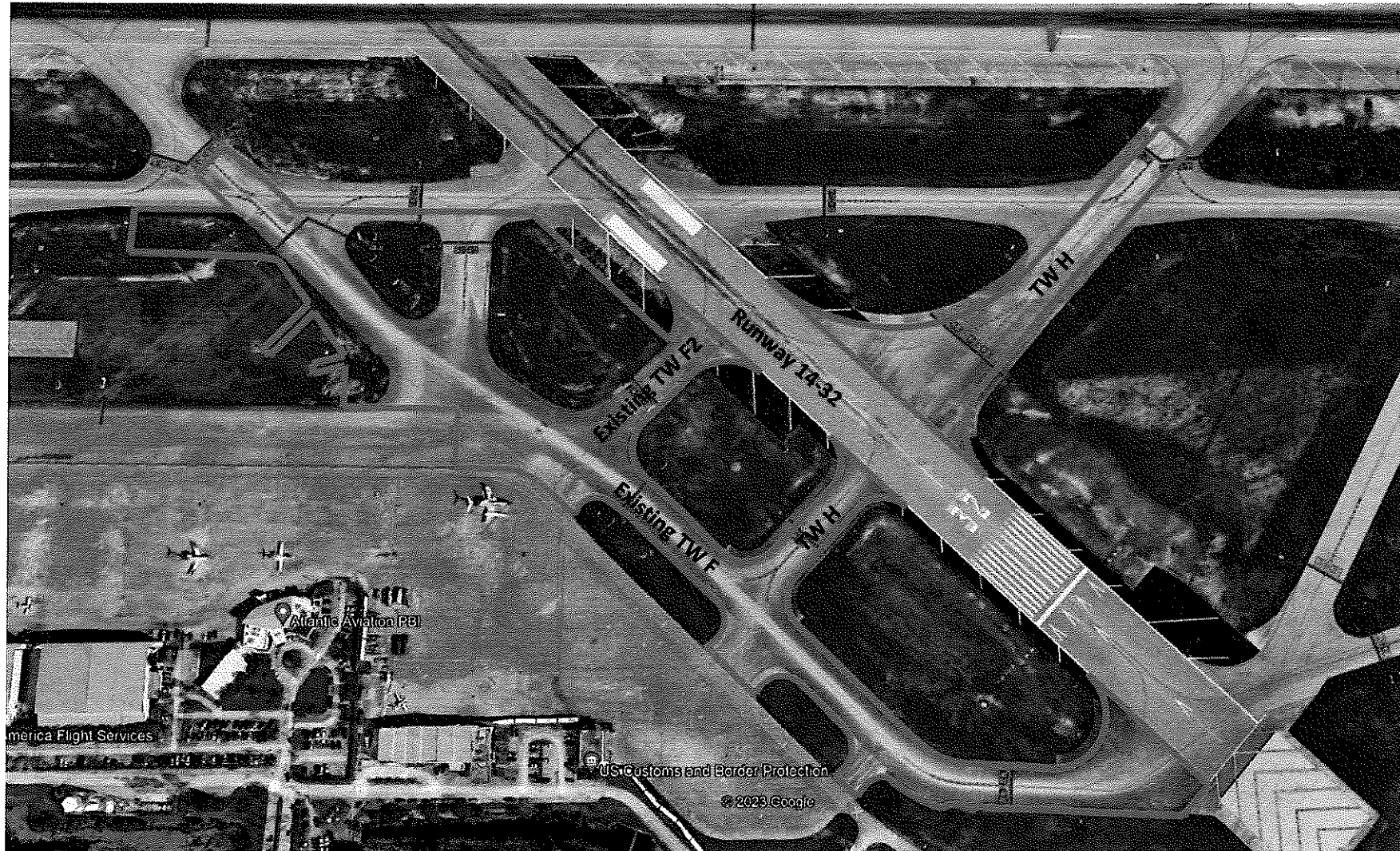
### Task 1 – Burrowing Owl Survey, Video Scope, and Collapse

#### 1.1 Burrow Presence/Absence Survey

CECOS will perform one (1) daytime presence/absence survey for burrowing owls to assess the number of burrows that fall within the construction area. The survey will be conducted in accordance with FWC *Species Conservation Measures and Permitting Guidelines for the Florida Burrowing Owl (February 2018)*. CECOS will document the location, number of potentially occupied burrows and abandoned burrows, and number of adult owls/pairs observed. Following the initial survey, CECOS, in conjunction with Client, will determine if the burrows are located within the RSA/TSA area or if they are located outside this area and therefore will require a FWC Migratory Bird Nest Removal Permit. Digital photography and GPS waypoints will be used to record observations and onsite locations. HDR will provide the TSA and RSA zones in digital format (i.e., dgn and/or shapefile) to CECOS prior to this field effort and/or will be clearly marked in the field. It is anticipated that this survey effort will take up to one (1) day.



Figure 1: Project Location Map



## 1.2 Burrow Video Scoping and Collapse

### 1.2.1 Burrows within RSA/TSA

It is assumed the burrows falling within airport safety zones will be video scoped and then collapsed. The purpose of video-scoping is to determine if eggs or flightless young are present prior to burrow collapse. If eggs or flightless young are not present (an inactive burrow), then the burrow will be collapsed by CECOS and it is the responsibility of the HDR/PBC DOA to fill the collapsed burrow cavity utilizing appropriate material (note, FWC specifications recommend pea rock, thick sod, gravel, or other similar resistant substrate over exposed fill). Inactive burrows will be collapsed. However, active burrows (containing eggs and/or flightless young) should not be collapsed. Should burrows with eggs or flightless young be encountered, these burrows must remain undisturbed until the young have fledged and a 33-foot 'no entry' buffer staked around the burrow during that time. If the video scope cannot detect eggs or flightless young due to burrow configuration (i.e., meandering, obstruction), and eggs and flightless young are revealed during the burrow collapse effort, the burrow will be re-constructed by CECOS/Client following FWC protocols. CECOS will provide material for burrow reconstruction. Burrow scoping and collapsing procedures will be consistent with protocols established by FWC.

This effort includes scoping/collapsing up to a maximum of ten (10) burrows. Should more owls occupy the safety areas following this collapsing effort, scoping/collapsing of additional burrows will be considered additional services. This task includes coordination with HDR and PBC DOA to schedule and obtain airport airfield escort/access for the activities proposed in this scope of services. It is assumed the HDR will escort CECOS staff to the safety areas.

CECOS will prepare a summary memo documenting the results of the safety zone survey, video scoping, and collapsing effort. This summary will include a GIS map depicting the locations of the documented burrows and their status (i.e. active/inactive, collapsed/remaining, eggs/young observed). This summary will be provided to HDR.

### 1.2.2 Burrows Outside RSA/TSA

Burrows that fall outside of the TSA and RSA zones will remain undisturbed until the FWC permit is issued. Following issuance of the FWC Migratory Bird Nest Removal permit, the permitted burrows will be scoped and collapsed, unless determined to be active. If eggs or flightless young are not present (inactive burrow), then the burrow will be collapsed by CECOS and it is the responsibility of the HDR/PBC DOA to fill the collapsed burrow cavity utilizing appropriate material (note, FWC specifications recommend pea rock, thick sod, gravel, or other similar resistant substrate over exposed fill). Inactive burrows may be collapsed under the FWC permit. However, active burrows (containing eggs and/or flightless young) cannot be collapsed under this permit. Should burrows with eggs or flightless young be encountered, these burrows must remain undisturbed until the young have fledged and a 33-foot 'no entry' buffer staked around the burrow in the interim. If the video scope cannot detect eggs or flightless young due to burrow configuration (i.e., meandering, obstruction), and eggs and flightless young are revealed during the burrow collapse effort, the burrow will be re-constructed by CECOS/HDR following FWC protocols. CECOS will provide material for burrow reconstruction.

This effort includes scoping/collapsing up to a maximum of ten (10) burrows. Should more owls occupy the area following this collapsing effort, scoping/collapsing of additional burrows will be considered additional services. This task includes coordination with HDR and PBC DOA to schedule and obtain airport airfield escort/access for the activities proposed in this scope of services. It is assumed the HDR will escort CECOS staff to the safety areas.

## **Task 2 – FWC Migratory Bird Nest Removal Permit Addendum**

For burrows located outside the RSA/TSA, a Migratory Bird Nest Removal Permit is required from FWC for disturbances (i.e., scoping, construction or staging activities) within 10 feet of a potentially occupied burrow (i.e., active

or inactive) at any time of the year, and for disturbances within 33 feet of a potentially occupied burrow during the breeding season (February 15-July 10). CECOS will prepare a FWC Migratory Bird Nest Removal Permit Amendment to the original Permit Application Number 103587 to request authorization to collapse burrows impacted by construction. In coordination with the Client, the application will consist of support documents that include the pre-construction survey results, burrow location map and table listing coordinates and status, ground level photos, avoidance and minimization measures, as applicable, and design plans to justify burrow removal, as well as compensatory mitigation to offset burrow impacts. For this project, the optimal mitigation option is a financial contribution to the Fish and Wildlife Foundation of Florida's Imperiled Species Permitting Conservation Fund. The application and support documents will be submitted electronically through the FWC Online Permit System. Preparation of one response to an FWC Request for Additional Information (RAI) and attendance at one onsite regulatory meeting are included in this task, if necessary. This task also includes telephone and email correspondence with Client and DOA to prepare the FWC application, and to schedule and obtain airport airfield access in the event FWC requires a site visit.

*Note: Financial contribution is calculated by the number of burrow clusters. A burrow cluster is one or more burrows within 150 feet of each other. Mitigation fees/financial contribution and permit fees associated with the FWC Permit will be provided and paid for by the Client/PBC DOA and are not included in this scope of work. The Client should avoid impacting potentially occupied burrows, if practical.*

**Task 3 – Meetings/Coordination**

CECOS will attend up to two meetings (one in person and one virtual) at the request of the Client. We will prepare a summary of environmental topics discussed. Miscellaneous coordination with the Client/PBC DOA is included in this task.

**II. SCHEDULE**

Upon receipt of project authorization, preparation of work activities will begin. We understand that our work effort will be coordinated with HDR and PBC DOA personnel and scoping and collapsing efforts could be affected by construction phasing. Task 1.1 will begin based on authorization from the HDR and will be completed within 20 business days.

**III. FEES**

Our Time & Material (T&M) fee for the proposed scope of services (labor) is **\$30,623.50** and expenses is **\$1,753.50**.

<b>Table 1– Fee Estimate</b>			
<b>Task No.</b>	<b>Description</b>	<b>Labor Fee</b>	<b>Expenses</b>
Task 1.1	Burrow Presence/Absence Survey	\$4,807.25	\$42.25
Task 1.2.1	Burrowing Owl Video Scope, and Collapse – within RSA/TSA	\$7,619.50	\$834.50
Task 1.2.2	Burrowing Owl Video Scope, and Collapse – outside RSA/TSA	\$7,619.50	\$834.50
Task 2	FWC Migratory Bird Nest Removal Permit	\$7,920.00	\$0
Task 3	Meetings/Coordination	\$2,657.25	\$42.25
<b>Total</b>		<b>\$30,623.50</b>	<b>\$1,753.50</b>

It is estimated the survey, scoping and collapsing effort (Task 1.2) will require up to four (4) field days. Scoping and collapsing more than 20 burrows or more than four (4) days) will be considered additional services not included in this Fees will be paid from CECOS' previous work authorization budget until that budget is spent. CECOS shall be entitled to additional services up to the amount shown here if previous budget is spent prior to completion of this work.

proposal. Fees may need to be adjusted based on the need to conduct nighttime work, limited access to airfield due to incoming/outgoing planes), poor weather conditions and/or the need for additional field survey time. Invoices will be submitted on a monthly basis and due upon receipt.

This estimate is subject to modification depending on additional information provided by Client, and/or other pertinent information. If field work is stopped due to safety concerns, access limitations or inclement weather, additional fees may apply.

#### IV. ASSUMPTIONS

The scope of services described in this proposal are contingent upon the assumptions listed below. Should conditions contrary to those assumptions occur, additional services will be required.

- Client will provide any required project files of airport safety zones (i.e., shapefiles/dgn files).
- Client will provide CECOS with airfield access and escorting services, as required.
- Burrowing owl survey, scoping and collapsing effort will occur during daylight hours. A minimum of eight (8)-hour continuous time blocks during daylight hours should be available to complete the pre-construction survey, and burrow scoping/collapsing, respectively. Up to one (1) day is estimated to conduct the presence/absence survey and up to four (4) days is estimated to video scope and collapse up to 20 burrows. More than 20 burrows will be considered additional services.
- It is assumed PBC DOA possesses a valid USFWS permit authorizing take, temporary possession, and transportation of migratory birds within these areas.
- Client will assist with collapsing and filling excavated inactive burrows (thick sod, gravel, pea rock or similar resistant substrate) by providing fill material and operator/laborer.
- Client shall pay additional compensation associated with efforts not specified in this proposal, if required. CECOS will notify Client, and work must be approved prior to being performed.
- This scope of work is prepared per our coordination with Client and may be adjusted according to the requirements and project's progress as well as any additional effort required.
- Mitigation fees to be paid by others.
- CECOS will not be responsible for any damage and/or negative impact that could be caused during construction and Best Management Practice (BMP) implementation by Client and/or Subcontractors.

We wish to thank you for your consideration on this project. If you have any question or need additional information, please do not hesitate to contact the undersigned at (954) 571-0290, or by email [wc@cecosenvironmental.com](mailto:wc@cecosenvironmental.com).

Very truly yours,

Cyriacks Environmental Consulting Services, Inc.

*Wendy Cyriacks*

President



**Subconsultant Contract**

**Chen Moore & Associates**

December 06, 2023

SENT VIA E-MAIL ([blehr@chenmoore.com](mailto:blehr@chenmoore.com))

Mr. Cody Parham  
HDR, Inc.  
1475 Centrepark Blvd. – Suite 230  
West Palm Beach, Florida 33401

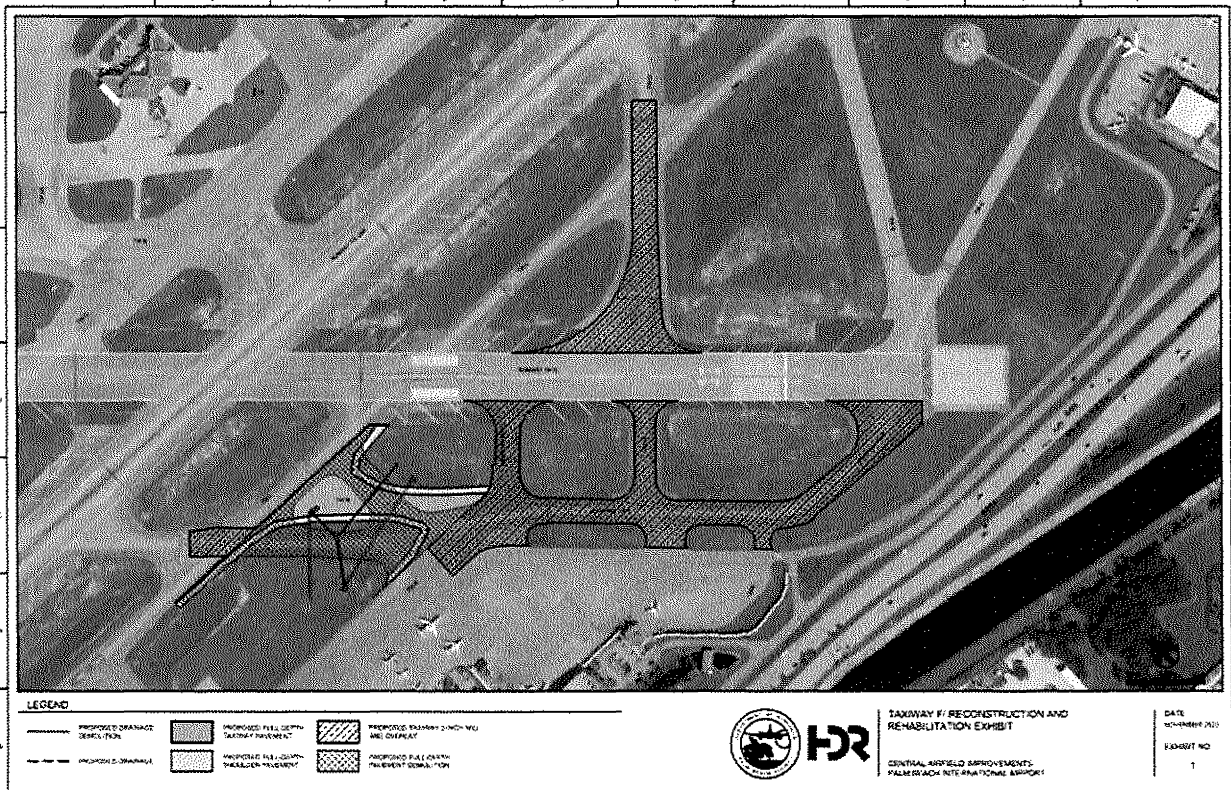
**Subject: PBI Central Airfield Improvements – Taxiway F Reconstruction and Rehabilitation  
Civil Engineering Design Phase Scope of Services  
CMA Proposal No. 23-0065.P0001-006**

Dear Mr. Parham,

Chen Moore and Associates, Inc. (CMA) is pleased to submit the attached Scope of Services and associated fee estimate to assist your team with the drainage and permitting services for the referenced project.

**PROJECT INTRODUCTION**

This project includes reconfiguration of the area between Taxiway L and Taxiway R and the replacement of existing Taxiway R with an extension of Taxiway F. Also included in this work is a portion of pavement rehabilitation on Taxiway L. This pavement reconfiguration will require the removal of two existing drainage conveyances and the addition of a new stormwater pipe network. This work is depicted in Figure 1 below. The reconfigured Taxiways should represent an overall reduction of imperious area.



**FIGURE 1: Depiction of Taxiway F reconfiguration**

The project phases shall consist of the following:

- 100% Bid Plans
- Bidding Assistance
- Permitting Services

### **PROJECT STAFFING**

Our staff and team are ready and prepared to work on this project. Chen Moore staff project roles shall be as follows:

Principal – Jose L. Acosta, P.E., F. ASCE  
Principal Engineer – Brent Whitfield, P.E.  
Senior Project Manager – Cole Benjamin, P.E.  
Senior Engineer – David Cowan, P.E.  
Project Engineer – Brandon Sullivan

Subconsultants: N/A

### **SCOPE OF SERVICES**

#### **TASK 1 – Project Initiation, Information Gathering, and Site Investigation**

Consultant shall collect and review copies of all relevant data, including correspondence, plans or information provided by the Client which may be beneficial to the work effort performed by Consultant. This task shall include one on-site investigation to collect pertinent information about the present-day condition of the project site. This task shall also include preparation for, and attendance by, the Consultant, of the project kick-off meeting.

#### **TASK 2 – Engineering Design Services**

Consultant shall include all relevant documentation required for a 100% design phase submittal, one round of comments from the client and owner, and revision to the 100% package for bid. In addition, CMA shall provide Bidding Assistance as detailed below.

##### **100% Bid Design**

- Provide a closed drainage network and open channel conveyance layout, along with all corresponding hydraulic analyses and supporting calculations.
- Prepare civil engineering stormwater plans for the purpose of Owner review and interdisciplinary coordination with other related disciplines. Submittal will include plan view, profile view, cross sections (where appropriate), and details. This will be prepared in preliminary 60% form initially to solicit owner comments as well as comments from the regulatory agency.
- Assist with the creation or modification of Demolition Plans and Typical Section sheets, as needed. Electronic design files (digital CAD) will be provided for inclusion on the plan sheets, as required.
- Perform a Temporary Drainage Analysis for each phase of construction, based on the MOT design (developed by others).
- Prepare technical specifications pertaining to the project's stormwater elements.
- Prepare stormwater management design report, including relevant narrative, exhibits, and figures, and hydraulics and hydrologic analyses.
- Prepare Erosion and Sediment Control plans and details.
- Provide an Opinion of Probable Cost for the project's stormwater elements.

- Attend two (2) meetings with the Owner/Client for project coordination.
- Coordinate with other project disciplines (Geotech, SUE, Airfield, Electrical) throughout this design phase.
- Coordinate with HDR and PBCDOA for one round of review of the 100% design and plans.
- Revise and resubmit all design, specification, plans, and cost estimates as needed incorporating comments from the 100% plans review.

**Bidding Assistance**

- Attend one (1) pre-bid meeting.
- Participate in addendum preparation (up to two minor addenda).

**TASK 3 – Permitting Services**

Consultant shall prepare and submit permit letter modification for the following regulatory authority:

- Stormwater Management - South Florida Water Management District (SFWMD)

Based on the stormwater master plan for PBI, a water quantity analysis (ICPR) and modification of existing stormwater management features is not anticipated and is not included in this scope of work. The proposed impervious area should be equal to or less than that of the existing condition. We anticipate preparing a letter modification to the existing ERP with SFWMD. This task shall include the effort to schedule and conduct a pre-application meeting with the South Florida Water Management District (SFWMD) pertaining to stormwater design, including the preparation of a meeting agenda and meeting minutes. The task shall also include preparing the letter modification, correspondence with regulatory reviewers, and any required responses for up to two rounds of comments and responses for Requests for Additional Information (RAI). Providing permit fees are not included and shall be the responsibility of the Owner.

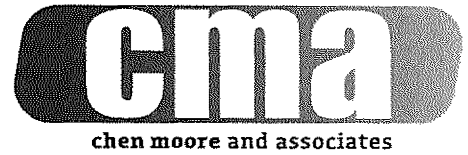
**The basis for the above scope of services and associated fee(s) are based on the following:**

- Scope and Fee assume that only one engineering submittal will be made for the design report, plans, specifications, and cost estimate. It is assumed that there will only be one review by PBCDOA. Prior to issuance of final documents. Additional submittals and comment response coordination shall be rendered as an additional service.
- Surveying, geotechnical investigation are to be performed by the Client, as required.
- If any off-site stormwater or off-site roadway improvements are required, they shall be rendered as an Additional Service.
- Franchise utility (such as FPL, telecom, and natural gas) relocation and/or service design shall be by others.
- Design services exclusively pertain to stormwater. Design associated with water, wastewater, landscape architecture, irrigation, site planning, pavement, signage and markings, Maintenance of Traffic, and detailed grading are not included.
- Client shall provide submittal fees for government agencies.
- Phased design and/or phased permitting may require an Additional Service.
- No construction management or construction administration services were included in this proposal. If requested, this effort shall be rendered as an additional service.

**Information to be provided by the Client:**

- A signed and sealed boundary and topographic survey and associated digital CAD File.
- A letter from the property owner granting access to the site and giving approval for Consultant to perform the services listed above.





- Filing and permit application fees, review fees, impact fees or any other associated assessments by other governments/agencies.
- Copies of all relevant data, including correspondence, traffic reports, plans or information in the Client's possession which may be beneficial to the work effort performed by Consultant.
- Previous reports and assessments.
- Legal description of the site.

**SCHEDULE AND FEES**

Consultant shall schedule work upon receipt of signed approval for this project as required. Per discussions with your team, the goal is to start immediately upon notice to proceed and official authorization from the Client. The total lump sum fee for this project will be divided as follows:

<b>TASK(s)</b>	<b>Task Description</b>	<b>Lump Sum</b>	<b>Hourly</b>	<b>Total Fees</b>
<b>WATER RESOURCES ENGINEERING AND STORMWATER PERMITTING</b>				
TASK 1	Project Initiation, Information Gathering, and Site Investigation	\$3,795.76	-	\$3,795.76
TASK 2	Engineering Design Services	\$53,870.43	-	\$53,870.43
TASK 3	Permitting Services	\$5,436.04	-	\$5,436.04
<b>PROJECT TOTAL</b>				<b>\$63,102.23</b>

Reimbursable expenses for the tasks above are included in the lump sum price. Additional reimbursables requested by the client shall be rendered as Additional Services.

Should you have any questions, please do not hesitate to contact me at my office at +1 (561) 746-6900, my cell phone at +1 (904) 707-7724, or send me an electronic message at [blehr@chenmoore.com](mailto:blehr@chenmoore.com).

Respectfully submitted,

Benjamin Lehr, PE, LEED AP  
Director – Transportation  
12/06/2023

Attachment(s):  
Fee Estimate

**PBI Central Airfield Improvements - Taxiway F Reconstruction and Rehabilitation**  
**Fee Estimate**

Chen Moore and Associates, Inc.

CMA Project No. 23-0065.P0001-006

Hourly Rate	Principal	Principal	Senior	Senior	Project	Administrative	Total
	Principal	Engineer	Project Manager	Engineer	Engineer	Staff	
	\$262.91	\$240.00	\$189.89	\$146.07	\$116.86	\$85.00	

**TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE INVESTIGATION**

Initial Field Visit		4			4		\$1,544.28
Existing Document Review			4		2		\$1,051.70
Project Kickoff Meeting and Project Setup		2	2			4	\$1,199.78
<b>Task 1 Total</b>		<b>0</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>\$3,795.76</b>

**TASK 2 – ENGINEERING DESIGN SERVICES**

**60% PRELIMINARY DESIGN SUBMITTAL**

Closed Drainage Network and Open Channel Layout		2	8		18	16	\$6,498.14
Hydraulic Analysis and Supporting Calculations		3	10		28	18	\$8,812.34
Plans Production and Details			8		14	10	\$4,732.70
Plans Assistance for Demolition Plans and Typical Sections			8		8	0	\$2,687.68
Temporary Drainage Analysis		1	8		8	8	\$3,862.56
Technical Specifications		1	8		10	8	\$4,154.70
Design Report			8		8	12	\$4,090.00
Erosion Control Sheets and Details		2	6		4	4	\$2,671.06
Opinion of Probable Cost	1	2	6		4	4	\$2,933.97
Interim Design Progress Review Meeting		1	2				\$619.78
100% Deliverable Review Meeting		1	2				\$619.78
Coordination with Others (Geotech, SUE, Airfield, Electrical)		1	2				\$619.78
QA/QC	2	4	8		4	4	\$4,056.66
Response to comments from 100% Deliverable Review		2	2		4	4	\$1,911.50
Revise and resubmit documents for Issued for Bid		2	4		8	8	\$3,343.00

**BIDDING ASSISTANCE**

Pre-Bid Meeting			2				\$379.78
Addendum Preparation (up to two minor addenda)		2	4			4	\$1,877.00
<b>Task 2 Total</b>		<b>3</b>	<b>16</b>	<b>84</b>	<b>106</b>	<b>84</b>	<b>\$53,870.43</b>

**TASK 3 – PERMITTING SERVICES**

Existing Permit Review and Pre-Application Meeting Request			2				\$379.78
Pre-Application Meeting with SFWMD		1	1				\$429.89
Pre-Application Meeting Minutes			1				\$189.89
SFWMD ERP Letter Modification Preparation		1	4		4	4	\$2,051.28
QA/QC		1	1				\$429.89
Respond to RAls (up to two occurrences)		2	4		2	2	\$1,765.42
Issue Final Permit Application			1				\$189.89
<b>Task 3 Total</b>		<b>0</b>	<b>5</b>	<b>14</b>	<b>6</b>	<b>6</b>	<b>\$5,436.04</b>

**TOTAL FEES** **\$63,102.23**

TASK	Total Hrs/Task	Total \$/Task
TASK 1 – PROJECT INITIATION, INFORMATION GATHERING, AND SITE	22	\$3,795.76
TASK 2 – ENGINEERING DESIGN SERVICES	295	\$53,870.43
TASK 3 – PERMITTING SERVICES	31	\$5,436.04
<b>TOTAL</b>	<b>348</b>	<b>\$63,102.23</b>



**Subconsultant Contract**

**Quantum Electrical Engineering**

# QUANTUM

Electrical Engineering, Inc.

November 10, 2023

HDR, Inc.  
Mr. Cody Parham P.E.  
1475 Centrepark Boulevard – Suite 230  
West Palm Beach, FL 33401-7412

Subject: Electrical Services Fee Proposal for the Palm Beach County Department of Airports (DOA) – Central Airfield Improvements Add Services for Relocation of Taxiway F.

Dear Cody:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide HDR an electrical services fee proposal for the relocation of Taxiway F to the existing contract documents.

The following items are included in our scope.

- Includes coordination meetings with DOA and the HDR design team.
- Quantum shall prepare design plans as a change order to the existing Central Airfield Improvements project.
- The design document package will include the following work:
  - Replacement/grade adjustment of eight (8) existing flush mounted runway 14-32 edge lights that are installed in the milled and overlaid taxiway connectors.
  - Replacement of top sections and fixtures for two (2) existing flush mount runway guard light bars on Taxiway F and two (2) flush mount runway guard light bar on Taxiway H and
  - Includes replacement of panels for nine (9) mandatory signs.
  - Design of new flush mount runway guard light bars on taxiway Lima.
  - Reconfiguration of Taxiway F to Taxiway N, including renaming of the signage at the connectors.
  - Relocation of the existing FAA manhole and installation of new FAA fiber optic system.
- Includes quantities and new line descriptions for items that are not in the existing specifications/bid tabulation.

#### **Exclusions and Assumptions**

- Assumes one submittal for the change order submittal.
- Excludes replacement of existing runway and taxiway guidance signs/panels.
- Excludes the installation of new flush mount runway guard lights on Taxiway F2, H, L,D and E.
- Excludes the cost for additional Construction Services.

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

**\$ 12,650.00**

Sincerely,



Amy L. Champagne-Baker, PE  
President

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

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

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

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - RELOCATION OF TAXIWAY F								
QUANTUM ELECTRICAL ENGINEERING, INC. SCOPE FEE SUMMARY								
FEE PROPOSAL ELECTRICAL DESIGN to HDR 11/10/2023								
Rate	\$170.00	\$150.00	\$145.00	\$85.00	\$140.00	\$48.00		
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total	TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	TASK COST
<b>Design Documents</b>								
Design Review Mtgs with DOA & HDR		2					2	\$300.00
Electrical Design Drawings		16	24	40			80	\$9,280.00
Quantity takeoff and Cost Estimate		8	8			4	20	\$2,552.00
QA/QC & Comment Incorporation		2		2		1	5	\$518.00
<b>Subtotal</b>	<b>0</b>	<b>28</b>	<b>32</b>	<b>42</b>	<b>0</b>	<b>5</b>	<b>107</b>	<b>\$12,650.00</b>
<b>Grand Total Hours</b>	<b>0</b>	<b>28</b>	<b>32</b>	<b>42</b>	<b>0</b>	<b>5</b>	<b>107</b>	<b>\$12,650.00</b>
<b>Grand Total Labor Cost</b>	<b>\$0.00</b>	<b>\$4,200.00</b>	<b>\$4,640.00</b>	<b>\$3,570.00</b>	<b>\$0.00</b>	<b>\$240.00</b>		



**END OF EXHIBIT A**

**Exhibit B**  
**Work Break Down Fee Schedule**  
**Additional Services for R-2017-0409 PBI Central Airfield Improvements 'Add Design Services'**

LABOR TASKS	Sr. Project Manager	Project Manager	Sr. Engineer	Staff Engineer	Senior Inspector	Engineer Intern	Designer	Sr. Admin Assistant	LABOR SUBTOTALS	Task Total
<b>Task 1</b> Taxiway L/F Intersection Design	Contract Rate	\$275.00	\$250.00	\$235.00	\$200.00	\$180.00	\$140.00	\$120.00	\$130.00	
PM			15					15	30	
Design			35	75		200			310	
QC	4	40	20			25			89	
Environmental support			40			8			48	
<b>1 - Subtotal Hours</b>	4	90	135	0	0	233	0	15	477	
<b>1 - Subtotal Estimated Labor Cost</b>	\$1,100.00	\$22,500.00	\$31,725.00	\$0.00	\$0.00	\$32,620.00	\$0.00	\$1,950.00	\$69,895.00	\$69,895.00
<b>Task 2</b> Inlet 01 Repair										
Investigation			10	30					40	
Design			35	20					55	
Construction Admin			10			20			30	
RPR			5	45					50	
									0	
									0	
<b>2 - Subtotal Hours</b>	0	60	75	20	0	20	0	0	175	
<b>2 - Subtotal Estimated Labor Cost</b>	\$0.00	\$15,000.00	\$17,625.00	\$4,000.00	\$0.00	\$2,800.00	\$0.00	\$0.00	\$39,425.00	\$39,425.00
<b>Task 3</b> Reserved										
									0	
									0	
									0	
<b>3 - Subtotal Hours</b>	0	0	0	0	0	0	0	0	0	
<b>3 - Subtotal Estimated Labor Cost</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Task 4</b> Reserved										
									0	
<b>4 - Subtotal Hours</b>	0	0	0	0	0	0	0	0	0	
<b>4 - Subtotal Estimated Labor Cost</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$0.00
<b>Total Hours</b>	4	150	210	20	0	253	0	15	652	
<b>Billable Hourly Rate</b>	\$275.00	\$250.00	\$235.00	\$200.00	\$180.00	\$140.00	\$120.00	\$130.00		
<b>Total HDR Labor Effort</b>	\$1,100	\$37,500	\$49,350	\$4,000	\$0	\$35,420	\$0	\$1,950	\$129,320.00	\$129,320.00

**Subconsultants**

TASK	DESCRIPTION	QUANTITY	DBE	ITEM	UNIT COST	AMOUNT
	Expenses					
	CECOS, Inc.	1	1		\$0.00	\$0.00
	Chen Moors	1			\$63,102.23	\$63,102.23
	Nova Consulting	1	1		\$0.00	\$0.00
	Quantum Electrical Engineering	1	1		\$12,650.00	\$12,650.00
	Tierra South Florida	1	1		\$0.00	\$0.00
	TY Lin	1			\$0.00	\$0.00
					<b>TOTAL EXPENSES</b>	<b>\$75,752.23</b>
					<b>DBE PARTICIPATION</b>	<b>6%</b>

Exhibit B  
 Work Break Down Fee Schedule  
 Additional Services for R-2017-0409 PBI Central Airfield Improvements 'Add Design Services'

LABOR TASKS	Sr. Project Manager	Project Manager	Sr. Engineer	Staff Engineer	Senior Inspector	Engineer Intern	Designer	Sr. Admin Assistant	LABOR SUBTOTALS	Task Total
Contract Rate	\$275.00	\$250.00	\$235.00	\$200.00	\$180.00	\$140.00	\$120.00	\$120.00		
<b>Reimbursables (T&amp;E)</b>										
Reproduction	# Drawings @	# Pages @	# Sets @							
	\$ 3.00	\$ 0.50								
Conformed for construction drawings	0		0					\$ -		
Meeting Exhibits	0		0					\$ -		
Project Manual		0	0					\$ -		
									Total Reproduction	\$ -
Postage/Delivery	# Packages @	# Packages @								
	\$ -	\$ -								
Conformed for construction documents	0	0						\$ -		
									Total Postage/Delivery	\$ -
Travel	# People	# Days	Airfare @	Rental Car @	Lodging @	Meals @	Const. Vehicle			
	\$ -	\$ -	\$ 300.00	\$ 100.00	\$ 250.00	\$ 40.00	\$ 200.00			
PM site visits (18 mo * 4.5 weeks * 1 visit)							\$ -	\$ -		
EDR and Support Visits (2 visit per month for 17 month construction)	0	0	0	0	0	0	0	0		
									Total Travel	\$ -
Permitting	SPWMD Letter Mod							\$ 250.00		
	# Burrows	Cost								
	\$ -									
Burrow Collapse	0	\$ 1,300.00						\$ -		
								\$ -		
									Total Permitting	\$ 250.00
									Reimbursables (Not to Exceed)	\$250.00
<b>Total Amendment 2 Contract Value Additional Services for PBI Central Airfield Rehab R-2017-0409</b>										<b>\$205,322.23</b>



HDR Engineering Inc.  
PBI Central Airfield Improvements

Contract History (as of 11/15/2022)

Task	NTP	Project Name	Status		Contract Value	Total Invoiced Completed	Remaining	% Billed Through 12/6/2023
<b>Original Agreement</b>								
R2017-0409	4/4/2017	Central Airfield Improvements	Complete	Labor - L.S.	\$1,192,980.88	\$1,180,658.34	\$12,322.34	99%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$36,045.50	\$36,045.50	\$0.00	
<b>CSA 1</b>								
1-HDR-2020-PBIA	9/2/2020	Additional Geotech	Complete	Labor - L.S.	\$5,106.87	\$5,017.50	\$89.37	98%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$0.00	\$0.00	\$0.00	
<b>CSA 2</b>								
2-HDR-2021-PBIA	4/9/2021	Taxiway B Breakout Design	Complete	Labor - L.S.	\$43,601.28	\$43,601.28	\$0.00	100%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$0.00	\$0.00	\$0.00	
<b>CSA 3</b>								
3-HDR-2022-PBIA	11/16/2022	Add Alternata Design	Complete	Labor - L.S.	\$70,076.94	\$70,076.94	\$0.00	100%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$0.00	\$0.00	\$0.00	
<b>CSA 4</b>								
4-HDR-2023-PBIA	5/31/2023	Preconstruction Services	Complete	Labor - L.S.	\$84,056.08	\$80,366.59	\$3,689.49	93%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$2,098.80	\$0.00	\$2,098.80	
<b>Amendment 1</b>								
5-HDR-2023-PBIA	7/11/2023	Construction Services	In process	Labor - L.S.	\$929,510.00	\$179,640.00	\$749,870.00	10%
				T&M	\$1,203,001.56	\$45,458.62	\$1,157,542.94	
				Expenses	\$123,130.00	\$111.61	\$123,018.39	
<b>Amendment 2</b>								
6-HDR-2024-PBIA	Forthcoming	Add design services	Forthcoming	Labor - L.S.	\$205,072.23	\$0.00	\$205,072.23	0%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$250.00	\$0.00	\$250.00	
				<b>Subtotal</b>	<b>\$3,894,930.14</b>	<b>\$1,640,976.58</b>	<b>\$2,253,953.56</b>	<b>42%</b>

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

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

This Amendment No. 2 as described herein, consists of 1 task. As summarized below, these initial efforts have an overall budget of \$205,322.23.

**LEVEL I TASKS:**

<b>TASK LEVEL / NO.</b>	<b>DESCRIPTION</b>	<b>LUMP SUM</b>	<b>NOT TO EXCEED (T&amp;E)</b>	<b>REIMBURSABLE EXPENSES</b>	<b>TOTAL</b>
6-HDR-2024-PBIA	Central Airfield Improvements Add Design Services	\$205,072.23	\$0.00	\$250.00	\$205,322.23
<b>GRAND TOTAL (AMENDMENT NO. 2)</b>					<b>\$205,322.23</b>



November 27, 2023

Ms. Cynthia Portnoy  
Palm Beach County Department of Airports  
Deputy Director of Development  
846 Palm Beach International Airport  
West Palm Beach, FL 33406-1470

Dear Ms. Portnoy:

HDR Engineering Inc. (HDR) is pleased to provide the proposed hourly billing rates associated with the Palm Beach County Department of Airports PBI Central Airfield Improvements contract for your review and approval. This letter is to confirm that we have reviewed the billing rates for our subconsultant firms and that, in our opinion, these rates are fair and reasonable. This letter also confirms that we are in compliance with the DOA Document PPM APD-001 dated 11-18-11 regarding subconsultant rates and HDR hereby certifies we have completed a detailed review of the following subconsultant's hourly billing and audited overhead rates:

**DBE SUBCONSULTANTS**

- Quantum Electrical Engineering, Inc.

Sincerely,  
HDR Engineering, Inc.

A handwritten signature in black ink that reads "Cody Parham".

Cody Parham  
Project Manager

hdrinc.com

1475 Centrepark Blvd., Suite 230, West Palm Beach, FL 33401-7425  
(561) 209-6600

**EXHIBIT B-I: Amendment 2 Hourly Billing Rates**

The following is a summary of the hourly billing rates by labor category for each of the primary team members associated with the CONSULTANT Team. Overhead and profit is included in these billing rates for the CONSULTANT. The manhour salary costs by job title description may be increased at the COUNTY'S discretion.

**SCHEDULE OF HOURLY LABOR BILLING RATES**

**CONSULTANT: HDR ENGINEERING, INC.**

<b>Description</b>	<b>Hourly Billing Rate</b>
Sr. Project Manager	\$275.00
Project Manager	\$250.00
Sr. Engineer	\$235.00
Staff Engineer	\$200.00
Sr. Inspector	\$180.00
Engineer Intern	\$140.00
Designer	\$120.00
Sr. Admin Assistant	\$130.00

**CONSULTANT: CYRIACKS ENVIRONMENTAL CONSULTING SERVICES, INC.**

<b>Description</b>	<b>Hourly Billing Rate</b>
Principal	\$265.00
Environmental Manager	\$175.00
Sr. Scientist	\$135.00
Scientist	\$105.00
GIS Specialist	\$105.00

**CONSULTANT: CHEN MOORE AND ASSOCIATES, INC.**

<b>Description</b>	<b>Hourly Billing Rate</b>
Principal	\$262.91
Principal Engineer	\$240.00
Senior Project Manager	\$189.89
Project Manager	\$175.28
Sr. Engineer	\$146.07
Construction Manager	\$146.07
Sr. Construction Specialist	\$140.00
Project Engineer	\$116.86
Sr. Designer	\$116.86
Sr. Inspector	\$116.86
Sr. Admin Assistant	\$102.25
Staff Engineer	\$87.64
Designer	\$87.64
Project Field Inspector	\$87.64
Administrative Staff	\$85.00
Sr. Technician	\$73.04
Technician	\$73.04
Admin Assistant	\$73.04
Engineering Intern	\$43.83

**CONSULTANT: QUANTUM ELECTRICAL ENGINEERING, INC.**

<b>Description</b>	<b>Hourly Billing Rate</b>
Project Manager	\$170.00
Professional Engineer	\$150.00
Project Engineer	\$145.00
CADD/Technician	\$85.00
Clerical	\$48.00
Field Engineer / RPR	\$140.00

**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 No.1: Amendment No. 2:

**LEVEL I TASKS:**

<b>Task 6-HDR-2024-PBIA</b>	<b><u>Central Airfield Improvements Add Design Services</u></b>
Duration:	62 Calendar Days
Compensation:	\$205,322.23

**TOTAL = \$205,322.23**

<sup>1</sup> "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 6-HDR-2024-PBIA Central Airfield Improvements Add Design Services**  
Duration: 62 Calendar Days



**Exhibit D**  
**DBE GOAL INFORMATION**

**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 2.

<b>Firm</b>	<b>Amendment 2 Totals</b>	<b>% of Amendment 2</b>
QEE	\$12,650.00	6%
<b>TOTALS</b>	<b>\$12,650.00</b>	<b>6%</b>

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

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.

Firm	Base (R2017-0409) Totals	CSA 1-HDR-2020-PBIA Totals	CSA 2-HDR-2021-PBIA Totals	HEE to QEE Subconsultant Fee Transfer	CSA 3-HDR-2022-PBIA Totals	Amendment 1 Totals	Amendment 2 Totals	Total Fees	% of Total Contract
TSF	\$43,272.37	\$10,770.80	\$0.00	\$0.00	\$0.00	\$96,555.00	\$0.00	\$150,598.17	4%
B&P	\$85,135.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$85,135.00	2%
QEE	\$0.00	\$0.00	\$0.00	\$7,481.18	\$23,446.00	\$332,620.00	\$12,650.00	\$376,197.18	10%
CECOS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$84,368.62	\$0.00	\$84,368.62	2%
Nova	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$586,677.94	\$0.00	\$586,677.94	15%
<b>TOTALS</b>	<b>\$128,407.37</b>	<b>\$10,770.80</b>	<b>\$0.00</b>	<b>\$7,481.18</b>	<b>\$23,446.00</b>	<b>\$1,100,221.56</b>	<b>\$12,650.00</b>	<b>\$1,282,976.91</b>	<b>34%</b>

**Table D-2 DBE Firms, Scheduled Payments, Scheduled % of Total Fee**

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

LOI/SOQ Project Description: Airport Civil Consulting Services for Palm Beach County Department of Airports

Name of Respondent: HDR Engineering, Inc. Change Order/Task/Amendment No. (if applicable): Amendment 2

Contact Person: Cody Parham E-mail Address: cody.parham@hdrinc.com

Address: 1475 Centrepark Blvd, Suite 230, West Palm Beach, FL 33401 Phone No.: (561) 209-6641 Fax No.: (561) 209-6606

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. 2755 Vista Parkway, Suite 1-9 West Palm Beach, FL 33411 (561) 210-9224	Electrical engineering design services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	6 %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %

**Total Percentage of DBE Participation: 6 %**

**Notes:**

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

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

By: Cody Parham  
Signature

Date: 12/27/2023

Cody Parham / Project Manager

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

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

LOI/SOQ Project Description: Airport Civil Consulting Services for Palm Beach County Department of Airports

Change Order/Task /Amendment No. (if applicable): Amendment 2

Name of Prime Respondent: HDR Engineering, 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

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(Additional Sheets may be used as necessary.)

**Total Percentage of Participation by DBE Firm for this Project:** 6 %

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:**

N/A      N/A %     DBE Certified  
(Name of Subcontractor)      (Percentage of work to be subcontracted)     Non-DBE

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

Quantum Electrical Engineering, Inc.  
Printed Name of DBE Subcontractor

By:   
Signature

Date: 12/28/2023

24-0375

BOARD OF COUNTY COMMISSIONERS  
 PALM BEACH COUNTY, FLORIDA  
 BUDGET TRANSFER

Advantage Document Numbers  
 BGRV:  
 BGEX: 121-012524\*893

FUND 4111      Airport Improvement & Development Fund

ACCT.NUMBER	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED As of 1/25/24	REMAINING BALANCE
<b><u>REVENUES/EXPENDITURES</u></b>								
121-A456-6504	Iotb Non Infrastructure	22,483,659	20,533,237	205,323	0	20,738,560	19,225,642	1,512,918
121-A900-9909	Reserves Improvement Program	17,216,760	4,414,048	0	205,323	4,208,725	0	4,208,725
<b>Total Receipts and Balances</b>		<b>217,226,377</b>	<b>214,803,233</b>	<b>205,323</b>	<b>205,323</b>	<b>214,803,233</b>		

Signatures & Dates

By Board of County Commissioners  
 At Meeting of

Office of Financial Management & Budget

INITIATING DEPARTMENT/DIVISION

Tuesday, March 5, 2024

Administration/Budget Department Approval

OFMB Department - Posted

Deputy Clerk to the

Board of County Commissioners

*Kenneth J. Park*      1/25/24  
*[Signature]*      2/5/24