

MCBISB 7-0

R2024-1006

☐ Consent ☒ Regular
☐ Workshop ☐ Public Hearing

☐ Workshop ☐ Public Hearing

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Amendment No. 3 (Amendment) to the Contract with HDR Engineering, Inc. (HDR), in the amount of \$2,510,779.75 for Consulting/Professional Services (Consulting Agreement) for the continued performance of professional services related to the Central Airfield Improvements Project (Project) at Palm Beach International Airport (PBI).

Summary: The Consulting Agreement with HDR for professional airfield design and engineering services was approved on April 4, 2017 (R 2017-0409) in the amount of \$1,229,026.38. Consultant Services Authorizations No. 1 through No. 4 and No. 7 in the amount of \$304,925.57 were approved pursuant to the delegated authority provided in PPM CW-F-050 and provided for design, pre-construction and construction phase services for the Project. Amendment No. 1 (R 2023-0977) and Amendment No. 2 (R 2024-0234) in the amount of \$2,460,963.79 provided for additional design, pre-construction and construction phase services for the Project. A detailed contract history is included in Attachment 1. Ranger Construction Industries, Inc. (Ranger), was awarded a Contract for the construction of the Project (Contract) on May 16, 2023 (R 2023-0701). Due to insufficient funding at the time of award, the Contract did not include Bid Alternate No. 1. As a result of the award of additional grant funding from the FAA as referenced in Item 3F-8 on this agenda, funding is now available to complete Bid Alternate No. 1. Item 6A-1 provides for the award of Bid Alternate No. 1 to finish the remainder of the work needed to complete Project. Approval of this Amendment in the amount of \$2,510,779.75 will provide additional construction phase consulting services for Bid Alternate No.1 and increase the total contract amount to \$6,505,695.49. HDR is headquartered in Omaha, Nebraska; however, the work will be completed from its West Palm Beach office. A DBE goal of 16% was established for the Consulting Agreement. HDR committed to 26% DBE participation for the Consulting Agreement. The DBE participation for this Amendment is 57%. The total DBE participation to date, including this Amendment, is 43%. Pursuant to changes to Chapter 332, Florida Statutes, effective July 1, 2023, a governing body of a medium hub commercial service airport may not approve purchases of contractual services in excess of \$1,000,000 on a consent agenda. This Amendment exceeds the threshold amount and must be approved on the regular agenda. This item is contingent on the approval of Items 3F-8 and 6C-1 on this agenda. **Countywide (AH)**

Background and Policy Issues: The 2020 Florida Department of Transportation (FDOT) Statewide Pavement Maintenance Program and subsequent engineering analysis identified the need to reconstruct Taxiway F and Taxiway H, and rehabilitate the Runway 14-32 shoulders at PBI. This Amendment will provide construction phase consulting services necessary to complete this work.

Attachments:

1. Amendment No. 3 with HDR Engineering, Inc. – 2 Originals with Contract History
2. DBE Goal Information

Recommended By: CS [Signature] Department Director 7/23/24
Date

Approved By: *Sam P. Copel Collis* *8/12/24*
Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	\$2,510,780				
Operating Costs					
External Revenues (Grants)					
Program Income (County)					
In-Kind Match (County)					
NET FISCAL IMPACT	\$2,510,780				
# ADDITIONAL FTE POSITIONS (Cumulative)					

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

Budget Account No: Fund 4111 Department 121 Unit A496-519 Object 6504

Reporting Category

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

This item is contingent on the approval of Items 3F-8 and 6A-1 on this agenda.

Approval of this item will provide budget for the contract with HDR in the amount of \$2,510,780.

Grant & PFC reimbursements will be determined as invoices are received.

C. Departmental Fiscal Review: Debbie Dumas

III. REVIEW COMMENTS

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

Lisa M. [Signature] 7/26/24
OFMB QA 7/26/24
7/26/24

Theresa Brackley 8/2/24
Contract Dev. and Control
8/1/24

B. Legal Sufficiency:

Anne Helgert 8/7/24
Assistant County Attorney

C. Other Department Review:

Department Director

REVISED 11/17

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

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 3

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 109 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	%	%	15 %	%
Cyriacks Environmental Consulting Services, Inc. 3001 SW 15th Street, Suite B Deerfield Beach, FL 33442 (954) 571-0290	Wildlife mitigation services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	%	%	2 %	%
Nova Consulting, Inc. 10486 NW 31 Terrace Miami FL 33172 (305) 436-9200	Construction observation services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	%	%	32 %	%
Tierra South Florida, Inc. 2765 Vista Parkway /Suite 10 West Palm Beach, FL 33411 (561) 687-8536	Construction materials testing	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	%	%	%	6 (asian) %

Total Percentage of DBE Participation: 57 %

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: 6/26/2024

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 3

Name of Prime Respondent: HDR Engineering, Inc.

Name of DBE Firm: Cyriacks Environmental Consulting Services, 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):

Wildlife survey and mitigation

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 2 %

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:

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

Cyriacks Environmental Consulting Services, Inc.

Printed Name of DBE Subcontractor

By: Guillermo

Signature

Guillermo Guzman, VP

Date: 6/13/2024

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 3

Name of Prime Respondent: HDR Engineering, Inc.

Name of DBE Firm: Nova Consulting, 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):

Construction observation

(Additional Sheets may be used as necessary.)

Total Percentage of Participation by DBE Firm for this Project: 32 %

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
(Name of Subcontractor)

N/A %
(Percentage of work to be subcontracted)

☐ DBE Certified
☐ 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.

Maria J. Molina, P.E.
Printed Name of DBE Subcontractor

By: Maria J. Molina
Signature

Date: 06/14/2024

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 3

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

(Additional Sheets may be used as necessary.)

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

<u>N/A</u> (Name of Subcontractor)	<u>N/A %</u> (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.

Amy Champagne-Baker

Printed Name of DBE Subcontractor

By: 

Signature

Date: 6/13/24

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 3

Name of Prime Respondent: HDR Engineering, Inc.

Name of DBE Firm: Tierra South Florida, Inc.

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

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

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

Construction materials testing

(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:

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

Wilson Gonzalez
Printed Name of DBE Subcontractor

By: [Signature]
Signature

Date: 6/13/2024

EXHIBIT F
NONGOVERNMENTAL ENTITY HUMAN TRAFFICKING AFFIDAVIT
Section 787.06(13), Florida Statutes

THIS AFFIDAVIT MUST BE SIGNED AND NOTARIZED

I, the undersigned, am an officer or representative of HDR Engineering, Inc. (Consultant) and attest that Consultant does not use coercion for labor or services as defined in section 787.06, Florida Statutes.

Under penalty of perjury, I hereby declare and affirm that the above stated facts are true and correct.

Katie E. Duty

(signature of officer or representative)

Katie E. Duty, Vice President

(printed name and title of officer or representative)

State of Florida, County of Palm Beach

Sworn to and subscribed before me by means of ☒ physical presence or ☐ online notarization; this, 24th day of June, by Katie E. Duty.

Personally known ☒ OR produced identification ☐.

Type of identification produced _____

Michelle J. Pardo

NOTARY PUBLIC

My Commission Expires: September 22, 2024

State of Florida at large



MICHELLE J. PARDO :
Commission # HH 045144
Expires September 22, 2024
Bonded Thru Budget Notary Services

Michelle J. Pardo / HH 045144

(Notary Seal)

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 3

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)
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Total Percentage of DBE Participation: 57 %

Notes:

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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 Date: 6/26/2024
Signature

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 3

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Name of DBE Firm: Cyriacks Environmental Consulting Services, Inc.

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(Additional Sheets may be used as necessary.)

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

Cyriacks Environmental Consulting Services, Inc.

Printed Name of DBE Subcontractor

By: 

Signature Guillermo Guzman, VP

Date: 6/13/2024

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 3

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- ☒ Subcontractor
- ☐ Manufacturer
- ☐ Supplier

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(Additional Sheets may be used as necessary.)

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N/A
(Name of Subcontractor)

N/A %
(Percentage of work to be subcontracted)

☐ DBE Certified
☐ 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.

Maria J. Molina, P.E.

Printed Name of DBE Subcontractor

By: Maria J. Molina
Signature

Date: 06/14/2024

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 3

Name of Prime Respondent: HDR Engineering, Inc.

Name of DBE Firm: Quantum Electrical Engineering, Inc.

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(Additional Sheets may be used as necessary.)

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(Name of Subcontractor)	(Percentage of work to be subcontracted)	<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.

Amy Champagne-Baker

Printed Name of DBE Subcontractor

By: 

Signature

Date: 6/13/24

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 3

Name of Prime Respondent: HDR Engineering, Inc.

Name of DBE Firm: Tierra South Florida, Inc.

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Construction materials testing

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

Wilson Gonzalez
Printed Name of DBE Subcontractor

By: [Signature]
Signature

Date: 6/13/2024

AMENDMENT NO. 3 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. 3 to the Contract is made as of the 20th day of August, 2024, by and between Palm Beach County, Florida, hereinafter referred to as the COUNTY, and HDR ENGINEERING, INC., a corporation authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, whose Federal Tax I.D. number is 470680568.

WITNESSETH

WHEREAS, on April 4, 2017, the COUNTY entered into a Contract (R-2017-0409) (the "Contract") with the CONSULTANT for the CONSULTANT to provide Consulting / Professional Services for the Palm Beach County Department of Airports ("Department of Airports"); and

WHEREAS, Article 26 of the Contract requires an amendment to add or modify services; 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 entered into an Amendment No. 1 (R-2023-0977) with the CONSULTANT for the CONSULTANT to provide additional professional services for the Department of Airports in Accordance with Article 26 of the Contract for Consultant Services Authorization 5-HDR-2023-PBIA; and

WHEREAS, on March 5, 2024, the COUNTY entered into an Amendment No. 2 (R-2024-0234) with the CONSULTANT for the CONSULTANT to provide additional professional services for the Department of Airports in Accordance with Article 26 of the Contract for Consultant Services Authorization 6-HDR-2024-PBIA; and

WHEREAS, on July 10, 2024, the COUNTY approved Consultant Services Authorization 7-HDR-2024-PBIA 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 first paragraph of Article 2 of the Contract is hereby amended to delete the last sentence in its entirety and replace it with the following:

The parties acknowledge and agree that additional services may be required to complete services, tasks or work authorized prior to the expiration of the Contract ("Supplemental Services"). In the event the COUNTY requires Supplemental Services, the parties shall enter into an agreement for the provision of the Supplemental Services by the CONSULTANT, which shall be subject to the same terms and conditions as the Contract except as specifically provided for in the agreement for Supplemental Services. This parties agree the CONSULTANT's agreement to provide Supplemental Services in accordance with the provisions of this Article 2 shall survive the expiration or early termination of the Contract.

2. The Contract is hereby amended to add the Scope of Services and Fees set forth in Exhibit A to this Amendment No. 3. The total amount to be paid by the COUNTY to the CONSULTANT for professional services associated with this Amendment No. 3, including any out-of-pocket expenses, shall not exceed Two Million, Five Hundred Ten Thousand, Seven Hundred Seventy-Nine Dollars and 75 Cents (\$2,510,779.75).
3. The Contract is hereby amended to add the following:

ARTICLE 36 – HUMAN TRAFFICKING AFFIDAVIT

The CONSULTANT warrants and represents that it does not use coercion for labor or services as defined in section 787.06, Florida Statutes. The CONSULTANT has executed Exhibit F, Nongovernmental Entity Human Trafficking Affidavit, which is attached hereto and incorporated herein by reference.

4. The Contract is hereby amended to add Exhibit F, which is attached hereto and incorporated herein by reference.
5. 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 hereto have duly executed this Amendment No. 3 as of the day and year first above written.

ATTEST:


PALM BEACH COUNTY, FLORIDA
R2024-1006

ATTEST:
JOSEPH ABRUZZO
CLERK OF THE CIRCUIT COURT
& COMPTROLLER

By: 
Deputy Clerk



AUG 20 2024
PALM BEACH COUNTY, FLORIDA
BOARD OF COUNTY COMMISSIONERS:

By: 
Maria Sachs, Mayor

WITNESS:

Pardo, Michelle J. Digitally signed by Pardo, Michelle J.
Date: 2024.06.21 15:39:39 -04'00'
SIGNATURE

Michelle Pardo
Name (type or print)

CONSULTANT:
HDR Engineering, Inc.
COMPANY NAME

Duty, Katie E. Digitally signed by Duty, Katie E.
Date: 2024.06.21 15:20:21 -04'00'
Signature

Katie E Duty
Name (type of print)

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

By: 
County Attorney

Vice President
Title

APPROVED AS TO TERMS
AND CONDITIONS

By: 
Director of Airports



June 27, 2024

Palm Beach County Department of Airports
ATTN: Mr. Michael Giambrone, Director of Airports Planning
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. 3 to Contract

Dear Mr. Giambrone:

HDR is pleased to submit for your review and approval the Amendment No. 3 for the Central Airfield Improvements Contract for the Palm Beach County Department of Airports. The proposed total professional fee is not to exceed \$2,510,779.75. The following support documents are included in this submittal:

- Proof of Signatory Authority
- Certificate of Insurance
- Amendment No. 3
- General Exhibits, including:
 - Exhibit A – Amendment No. 3
 - Exhibit B - Detailed Fees, Expenses and Payments
 - Exhibit C - Proposed Schedules
 - Exhibit D - Disadvantaged Business Enterprise Compliance
 - Exhibit H - Nongovernmental Entity Human Trafficking Affidavit

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.



Cody Parham, P.E.
Project Manager

cc:
Cynthia Portnoy - 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.




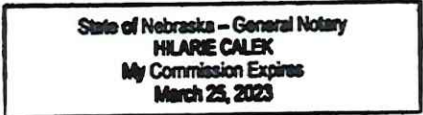

 Elizabeth C. Buell, Assistant Secretary

STATE OF NEBRASKA
COUNTY OF DOUGLAS

On this 19th 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



[illegible]

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS

PROFESSIONAL SERVICES AGREEMENT WITH HDR ENGINEERING, INC. (R-2017-0409)

DESIGN AND ENGINEERING SERVICES (PROJECT SPECIFIC)

CENTRAL AIRFIELD IMPROVEMENT PROJECT (PAVEMENT REHABILITATION AND RECONSTRUCTION)

CONTRACT HISTORY

CONTRACT NO.
R-2017-0409

DATE APPROVED BY BCC
4/4/2019

EXPIRATION DATE
N/A - PROJECT SPECIFIC

ORIGINAL CONTRACT AMOUNT
\$1,229,026.38

AMENDMENT AMOUNT
\$4,971,743.54

CSA APPROVED BY DOA/CRC
\$304,925.57

TOTAL CONTRACT AMOUNT
\$6,505,695.49

ORIGINAL DBE COMMITMENT
26%

DBE PARTICIPATION TO DATE
43%

ORIGINAL AGREEMENT SERVICES:
AIRFIELD DESIGN AND ENGINEERING SERVICES; Rehabilitate Taxiway Bravo; Relocate/Reconstruct Taxiway B1 Connector to Runway 14-32; Rehabilitate/Reconstruct Taxiway Foxtrol south of Runway 10L-28R; Relocate/Reconstruct Taxiway F2; Remove Taxiway F3; Relocate/Reconstruct West Remote Apron/Concourse B Taxiway Connector, and Rehabilitate Runway 14-32 Shoulders.

Amendment No.	Consultant Service Authorization No.	APPROVAL DATE	APPROVED BY	DBE COMMITMENT	AMOUNT	NEW CONTRACT AMOUNT	STATUS	DESCRIPTION
N/A	1-HDR-2020-PBIA	9/2/2020	DOA	100%	\$5,106.87	\$1,234,133.25	APPROVED	Additional Geotechnical Investigation Services
N/A	2-HDR-2021-PBIA	4/9/2021	DOA	0%	\$43,601.28	\$1,277,734.53	APPROVED	Modifications to Design Documents - Removal of Taxiway B between new Runway 14 connector and Taxiway A, Redesign Taxiway B electrical
N/A	3-HDR-2022-PBIA	11/16/2022	CRC	33%	\$70,076.94	\$1,347,811.47	APPROVED	Modification to Design Documents - Break project into Base Bid and Alternates
N/A	4-HDR-2023-PBIA	5/31/2023	CRC	43%	\$86,154.88	\$1,433,966.35	APPROVED	Pre-Construction Services for Base Bid and Alternate 2
1	5-HDR-2023-PBIA	7/11/2023	BCC	48%	\$2,255,641.56	\$3,689,607.91	APPROVED (R-2023-0977)	Construction Phase Services for Base Bid and Alternate 2
2	6-HDR-2024-PBIA	3/5/2024	BCC	6%	\$205,322.23	\$3,894,930.14	APPROVED (2024-0234)	Additional Design Services
N/A	7-HDR-2024-PBIA	7/10/2024	CRC	81%	\$99,885.60	\$3,994,915.74	APPROVED	Pre-Construction and Preliminary Construction Phase Services for Alternate 1
3	8-HDR-2024-PBIA	PENDING 8/20/2024	BCC	57%	\$2,510,779.75	\$6,505,695.49	PENDING	Construction Phase Services for Alternate 1
TOTAL:					\$5,276,669.11	\$6,505,695.49		

AMENDMENT NO. 3 INDEX

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 3

EXHIBIT A-1 – Task 8-HDR-2024-PBIA: Central Airfield Improvements Construction
Phase 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



CERTIFICATE OF LIABILITY INSURANCE

6/1/2025 5/14/2024

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

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

PRODUCER	Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000 kcasu@lockton.com	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL: ADDRESS:
INSURED	HDR ENGINEERING, INC. 1917 SOUTH 67TH STREET OMAHA NE 68106	INSURER(S) AFFORDING COVERAGE INSURER A: Lloyds of London INSURER B: INSURER C: INSURER D: INSURER E: INSURER F:

COVERAGES				CERTIFICATE NUMBER: 16782669		REVISION NUMBER: XXXXXXXX			
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.									
INSR LTR	TYPE OF INSURANCE		ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
	<input type="checkbox"/>	COMMERCIAL GENERAL LIABILITY			NOT APPLICABLE			EACH OCCURRENCE	\$ XXXXXXXX
	<input type="checkbox"/>	CLAIMS-MADE <input type="checkbox"/> OCCUR				DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ XXXXXXXX		
	<input type="checkbox"/>					MED EXP (Any one person)	\$ XXXXXXXX		
	<input type="checkbox"/>					PERSONAL & ADV INJURY	\$ XXXXXXXX		
	<input type="checkbox"/>	GEN'L AGGREGATE LIMIT APPLIES PER:				GENERAL AGGREGATE	\$ XXXXXXXX		
	<input type="checkbox"/>	POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/>				PRODUCTS - COMP/OP AGG	\$ XXXXXXXX		
	<input type="checkbox"/>	OTHER:						\$	
	<input type="checkbox"/>	AUTOMOBILE LIABILITY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident)	\$ XXXXXXXX
	<input type="checkbox"/>	ANY AUTO				BODILY INJURY (Per person)	\$ XXXXXXXX		
	<input type="checkbox"/>	OWNED AUTOS ONLY	<input type="checkbox"/>	SCHEDULED AUTOS		BODILY INJURY (Per accident)	\$ XXXXXXXX		
	<input type="checkbox"/>	HIRED AUTOS ONLY	<input type="checkbox"/>	NON-OWNED AUTOS ONLY		PROPERTY DAMAGE (Per accident)	\$ XXXXXXXX		
	<input type="checkbox"/>		<input type="checkbox"/>				\$ XXXXXXXX		
	<input type="checkbox"/>		<input type="checkbox"/>						
	<input type="checkbox"/>	UMBRELLA LIAB			NOT APPLICABLE			EACH OCCURRENCE	\$ XXXXXXXX
	<input type="checkbox"/>	EXCESS LIAB				AGGREGATE	\$ XXXXXXXX		
	<input type="checkbox"/>	DED		RETENTION \$			\$ XXXXXXXX		
	<input type="checkbox"/>								
	<input type="checkbox"/>	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY			NOT APPLICABLE			PER STATUTE	OTH-ER
	<input type="checkbox"/>	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	<input type="checkbox"/> Y / N	N / A		E.L. EACH ACCIDENT	\$ XXXXXXXX		
	<input type="checkbox"/>	If yes, describe under DESCRIPTION OF OPERATIONS below				E.L. DISEASE - EA EMPLOYEE	\$ XXXXXXXX		
	<input type="checkbox"/>					E.L. DISEASE - POLICY LIMIT	\$ XXXXXXXX		
A		ARCH & ENG PROFESSIONAL LIABILITY	N	N	P1001412400	6/1/2024	6/1/2025	PER CLAIM: \$5,000,000	AGGREGATE: \$5,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
PROJECT (R-2017-0409) AIRFIELD DESIGN & ENGINEERING SERVICES. PROFESSIONAL/CONSULTATION SERVICES IN THE AREAS OF AIRFIELD DESIGN AND ENGINEERING SERVICES; 30 DAYS NOTICE OF CANCELLATION APPLIES, 10 DAYS NOTICE FOR NON-PAYMENT OF PREMIUM.

CERTIFICATE HOLDER	CANCELLATION See Attachment
16782669 PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS C/O DEPARTMENT OF AIRPORTS 846 PALM BEACH INTERNATIONAL AIRPORT WEST PALM BEACH FL 33406-1470	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE

EXHIBIT A: AMENDMENT NO. 3

This Amendment No. 3 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. 3

EXHIBIT A-1 – Task 8-HDR-2024-PBIA: Construction Phase Services for Bid Alternate 1

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 8-HDR-2024-PBIA: Construction Phase Services for Bid Alternate 1

Palm Beach County Department of Airports



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

Task Authorization No. 8-HDR-2024-PBIA

Palm Beach International Airport (PBI)

Construction Phase Services for Bid Alternate 1



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

August 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 HDR.

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 and bid phase services for the project, known as the 'Central Airfield Improvements', the PBCDOA wishes for the CONSULTANT to provide construction phase services for bid alternate 1.

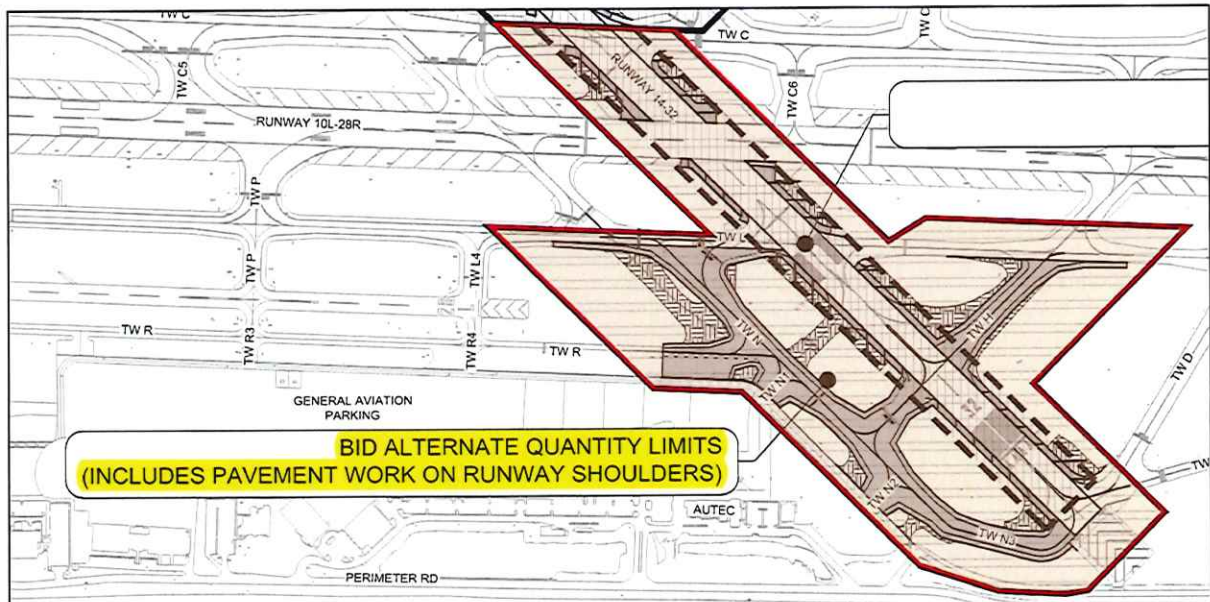


Figure 1 Bid Alternate 1 Overall Plan

Construction activities will generally consist of construction of airfield pavements and supporting infrastructure.

PROJECT DESCRIPTION AND GENERAL SCOPE

Consultant will provide construction services as a task under its Professional Services Agreement (PSA) with the COUNTY.

The services consist of the following scope items:

- Construction administration
 - Generally described as information review and processing, such as submittal review, RFIs, pay app review, evaluation of substitutions, certification, etc. This work is typically performed under the supervision of the Engineer of Record (EOR).



- Supplemental design services to align the Bid Alt 1 scope of work with the base bid and change order work previously procured and performed. Supplemental design will consist of:
 - Partial or complete rehabilitation of Runway 14-32 shoulder pavements south of Taxiway C, avoiding damage to previously installed shoulder lighting.
 - Revisions to phasing, haul routes, aircraft detours, and work durations, based on previous coordination with DOA Operations and the Contractor.
 - Revisions to project limits, based on recent design progress on the adjacent Taxiway R improvements project.
- Quality assurance
 - Generally described as the procedures performed on behalf of the PBCDOA to fulfill the PBCDOA's responsibility to assure that construction work completed complies with specifications for payment.
- Resident Project Representative (RPR)
 - Generally described as the firm(s) duly authorized by the PBCDOA to be responsible for inspections, observations, tests, and/or observations of tests of the contract work performed or being performed, or of the materials furnished by the Contractor, and acting directly or through an authorized representative.
 - Full-time on site RPR during construction
 - Part-time as needed on site RPR prior to mobilization and after substantial completion

1. Phase 1A: Planning and Programming

This phase is not a part of this proposal

2. Phase 1B: Conceptual Design

This phase is not part of this proposal.

3. Phase 2: Schematic Design

This phase is not part of this proposal.

4. Phase 3A: 60% Construction Documents

This phase is not part of this proposal.

5. Phase 3B: 90% Construction Documents

This phase is not part of this proposal.

6. Phase 3C: 100% Construction Documents

This phase is not part of this proposal.

7. Phase 4: Bidding and Award of Contract

This phase is not part of this proposal.

8. Phase 5: Construction Administration Services

Task 1 Resident Project Representative (Time and Materials, Not to Exceed)

1. Resident Project Representative (RPR). CONSULTANT will provide the services of an RPR at the Site to provide observation of Contractor's work. CONSULTANT will provide the services of a senior RPR to oversee written communications, attend meetings, and issue records of decision. The CONSULTANT shall provide daily observation reports to the PBCDOA.



The CONSULTANT shall provide an on-site RPR for the periods shown in Table 1.

Table 1 RPR Hours by Phase

Firm	Pre-Construction RPR	Construction RPR	Post-Construction RPR
Nova	1 x 20 hrs/wk (4 weeks)	2 x 40 hrs/wk (56 weeks)	1 x 40 hrs/wk (5 weeks)
CMA	--	1 x 40 hrs/wk (29 weeks)	--
QEE	1 x 20 hrs/wk (4 weeks)	1 x 40 hrs/wk (56 weeks)	1 x 20 hrs/wk (5 weeks)
HDR	1 x 8 hrs/wk (4 weeks)	1 x 16 hrs/wk (48 weeks) 1 x 40 hrs/wk (8 weeks)	1 x 8 hrs/wk (5 weeks)

2. The CONSULTANT shall attend up to 65 weekly construction progress meetings. The CONSULTANT will review the agenda and minutes issued by the DOA.
3. Change Proposals and Claims: CONSULTANT will review and respond to up to 10 Change Proposals. CONSULTANT will review each duly submitted Change Proposal from Contractor and recommend either denying the Change Proposal in whole, recommend approving it in whole, or recommend denying it in part and approving it in part. CONSULTANT shall maintain a tracking log of change proposal status.
4. The CONSULTANT shall review the following technical specification submittals for compliance with the contract documents as a supplement to the EOR's review.
 1. Safety Plan Compliance Document
 2. Asphalt Laydown/Lighting Plan
5. Inspections and Tests
 1. Schedule, perform, and review PBCDOA's quality assurance inspection and testing as described in the technical specifications. Performance of tests and inspections work to be performed by SUBCONSULTANT TSF.
 2. Through subconsultant TSF, perform geotechnical investigations for unforeseen field conditions during construction
 - o 10 asphalt pavement cores, including through the base course
 - o 5 SPT borings to 10-ft depth
 - o 1 soil sieve analyses
 - o 1 organic content tests
 3. Receive and review certificates of inspections, tests, and approvals required by the Construction Contract Documents. CONSULTANT's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Construction Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Construction Contract Documents. RPR shall be entitled to rely on the results of such inspections and tests.
6. The CONSULTANT will review up to 15 contractor pay applications and recommend either rejection, approval, or partial approval to the PBCDOA.
 1. CONSULTANT will track quantities of work performed on a daily basis and reconcile quantities with the contractor on a weekly basis.
7. After notice from Contractor that Contractor considers the entire work ready for its intended use, in company with PBCDOA, EOR, and Contractor, visit the site to review the work and determine the status of completion. The CONSULTANT shall perform a substantial completion site visit review and provide a punch list of open items for the contractor to address for each phase of work and at the end of the construction phases. CONSULTANT will incorporate the PBCDOA's and EOR's punch list items into the master punch list. CONSULTANT will recommend to the PBCDOA on what date the substantial completion notice should be recorded.



8. The CONSULTANT shall perform a final completion site visit to observe the contractor's work to address the punch list. CONSULTANT will recommend to the PBCDOA on what date the final completion notice should be recorded.
9. Subconsultants shall provide specific RPR duties in accordance with
10. Table 1.
 1. QEE shall provide a full-time RPR for electrical work.
 2. Nova shall provide a Senior RPR and the daily on site civil RPR.
 3. CMA shall provide RPR for work involving stormwater conveyances.
 4. HDR shall provide a part-time senior RPR for critical work periods, such as unforeseen field conditions, runway intersection closure, phase completion walk throughs, and escort of non-movement driver staff.
11. Weather Days. Consultant shall record the weather each day in the RPR reports, and advise what activities were affected and for how long. Consultant shall keep a log of contractor's weather day delay requests and provide recommendations to the DOA to accept or reject each day requested.
12. Meeting participation
 1. SRM panel attendance and presentation of construction phasing
 2. Pre-construction conference - attendance
 3. Up to 65 progress meetings
13. Wildlife survey and mitigation
 1. Burrow Presence/Absence Survey prior to commencement of construction
 2. Burrow Presence/Absence Survey prior to commencement of each phase
 3. Permit, if needed, and collapse up to 20 potentially occupied, inactive Burrowing Owl burrows. Escort of environmental staff shall be by HDR or Nova.
14. Noncompliance and Safety Incidents. Consultant will issue notices of noncompliance and safety incidents and track contractor's cure efforts.

Task 2 Construction Administration (Lump Sum)

1. Construction Management Plan (CMP). Consultant shall develop a construction management plan per the requirements of FAA AC 150/5370-12B 'Quality Management for Federally Funded Airport Construction Projects'. Consultant will submit a draft document to the DOA for review and respond to 1 round of comments with a final document.
2. Supplemental design
 1. Consultant shall evaluate the impacts of the proposed improvements on the existing and future function of the stormwater management system and adjust the design to accommodate future improvements where feasible in terms of budget and construction schedule. Consultant shall consider the ongoing stormwater management master planning in the evaluation. Consultant shall be assisted by subconsultant CMA in this effort.
 2. Consultant shall make up to 2 updates to the design documents to revise the scope of work to the DOA's needs and to align the scope with work previously performed under the base bid.
 1. Examples of updates include phasing limits, aircraft taxi detour routes, work durations, coordination with adjacent rehab of Taxiway R, and changes to the extents of the Runway 14-32 shoulder rehabilitation.
 2. Consultant shall update Volumes I and II specifications with revised project scope, phases, durations, and liquidated damages.
 3. Consultant shall be assisted by subconsultant QEE in this effort.
3. FAA submittals
 1. Consultant shall submit FAA Form 7460-1 'Notice of Proposed Construction' via the OE/AAA portal.
 2. The CONSULTANT shall submit Form 7460-2 'Notice of Actual Construction' via the OE/AAA portal.
 3. The Consultant shall submit the CSPP to the FAA via the OE/AAA portal
4. Meetings
 1. Consultant shall attend the preconstruction meeting.



2. Consultant shall attend up to 65 weekly construction meetings starting at NTP and completing at final completion
3. Consultant shall attend up to 12 monthly stakeholder outreach meetings, held virtually
4. Consultant shall host up to 65 weekly design team internal preparation meetings to coordinate open action items and prepare for the weekly construction meetings.
5. Contract documents. Maintain the current record version of the contract documents throughout the construction phase.
6. Schedule. CONSULTANT shall review the contractor's monthly baseline schedule and weekly four-week look ahead schedule for the duration of active construction.
7. Submittal Review. The CONSULTANT shall review Front End and tech spec submittals for compliance with the contract documents. Consultant shall provide a tracking log for anticipated submittals to the contractor for reference in making the contractor's own log.
8. Substitutions. Consultant shall evaluate up to 5 contractor requests for substitutions and make a recommendation to the DOA.
9. The CONSULTANT will provide up to 15 monthly DBE status monitoring reports.
10. Inspections and tests. Receive and review certificates of inspections, tests, and approvals required by the Construction Contract Documents. CONSULTANT's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Construction Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Construction Contract Documents.
11. Asbuilt review
 1. Consultant will review contractor-submitted asbuilts, per phase, for:
 1. Pavement layers, from subgrade to surface course, for conformance with grading tolerances
 2. Graded areas for earthwork quantity calculations
 3. Drainage structures and pipes
12. RFIs. Consultant shall accept from Contractor and Owner submittal of matters concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information—RFIs) or relating to the acceptability of the Work under the Construction Contract Documents. Within 2 weeks, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Construction Contract Documents for up to 20 RFIs. CONSULTANT shall maintain a tracking log of RFI status.
13. Field instructions. Consultant will issue up to 20 field instructions clarifying or interpreting the work required that results in no change to cost or schedule.
14. Field bulletins. Consultant will issue up to 15 field bulletins depicting minor modifications to the work which may result in changes to project cost or schedule.
15. Change Proposals and Claims: CONSULTANT will review and respond to up to 10 Change Proposals. CONSULTANT will review each duly submitted Change Proposal from Contractor and recommend either denying the Change Proposal in whole, recommend approving it in whole, or recommend denying it in part and approving it in part. CONSULTANT shall maintain a tracking log of change proposal status.
16. Phasing Coordination. Consultant shall perform the following activities for each phase transition, up to 13 phases.
 1. Solicit contractor's anticipated phase start date.
 2. Develop a written phase commencement request to DOA Operations, detailing the work to be done, the work areas and times, anticipated closures of facilities required, and suggested MOT exhibit.
 3. Coordinate phase area, work dates/times, etc. minor adjustments between DOA Operations and the Contractor, with up to 1 in-person meeting per phase anticipated.
17. Contractor Pay Applications. The CONSULTANT will review up to 15 contractor pay applications and recommend either rejection, approval, or partial approval to the COUNTY.
 1. Financial reporting. Consultant shall provide monthly breakdowns of value of work completed for each project funding source and work component, based on the approved contractor invoice amount.



18. Substantial Completion. After notice from Contractor that Contractor considers the entire work ready for its intended use, in company with COUNTY and Contractor, visit the site to review the work and determine the status of completion. The CONSULTANT shall perform a substantial completion site visit review and provide a punch list of open items for the contractor to address for each phase of work and at the end of the construction phases. CONSULTANT will incorporate the COUNTY's and EOR's punch list items into the master punch list. CONSULTANT will recommend to the COUNTY on what date the substantial completion notice should be recorded. Substantial completion activities shall be performed for 13 phases of work.
19. Final Completion. The CONSULTANT shall perform a final completion site visit to observe the contractor's work to address the punch list. CONSULTANT will recommend to the COUNTY on what date the final completion notice should be recorded.
20. Maintenance Guidance. Upon issuance of the substantial completion notice, CONSULTANT shall provide maintenance checklists and schedules for materials and equipment installed under the project.
21. Contractor's Completion Documents. CONSULTANT will receive from Contractor, review, and transmit to Owner maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance required by the Construction Contract Documents, certificates of inspection, tests and approvals. CONSULTANT will receive from Contractor, review, and transmit to Owner the annotated record documents which are to be assembled by Contractor in accordance with the Construction Contract Documents to obtain final payment. The extent of CONSULTANT's review of record documents shall be to check that Contractor has submitted the information required by the contract documents.
22. The CONSULTANT shall provide engineer's certification to funding sources and permitting authorities.



Project Schedule

The schedule of CONSULTANT'S services shall follow the construction schedule.

TASKS 1 AND 2 RPR AND CONSTRUCTION ADMINISTRATION

The anticipated construction schedule is as follows:

- 28 calendar days / 4 weeks / 1 months mobilization period from NTP to start of field work
 - Preconstruction services are based on this duration
- 391 calendar days / 56 weeks / 13 months from start of field work to substantial completion
 - RPR and CA services are based on this duration
- 30 calendar days / 5 weeks / 1 months from substantial completion to final completion
 - RPR and CA services are based on this duration
 - Substantial completion and final completion services are based on this duration
- 449 days / 65 weeks / 15 months from NTP to final completion

CONSTRUCTION PHASING

Construction Phase	Duration (Calendar Days)	Work Hours
Pre-Construction	28	
Mobilization	28	N/A
Construction	391	
2-D-ALT	11	7am – 5pm, M-F
2-E-ALT	55	10:30pm – 5:30am, Mon Night-Fri Morning
2-F-ALT	27	7am – 5pm, M-F
2-G-ALT	54	7am – 5pm, M-F
2-G.1-ALT	20	7am – 5pm, M-F
2-H-ALT	25	7am – 5pm, M-F
3-A-ALT	60	7am – 5pm, M-F
3-B-ALT	30	7am – 5pm, M-F
3-B.1-ALT	17	7am – 5pm, M-F
3-C-ALT	32	7am – 5pm, M-F
3-D-ALT	20	
3-E-ALT	40	
3-E.1-ALT	25*	
Post-Construction	30	
Substantial Completion	30	7am – 5pm, M-F
Total	449	

*Sub-phase is concurrent with its corresponding phase



Summary of Deliverables
Table 2 Deliverables by Phase

Task	Deliverables
Task 1 RPR	<ul style="list-style-type: none">• Daily RPR Reports• Quality assurance inspections and test reports• Change Order recommendations and log• Pay Application recommendations• Recommendation of substantial completion and punchlist• Recommendation of final completion• Contractor's completion documents• All submittals in PDF format unless noted
Task 2 Construction Administration	<ul style="list-style-type: none">• Environmental memo• Construction management plan• Logs<ul style="list-style-type: none">◦ Submittals◦ Field instructions◦ Field bulletins◦ RFI◦ Weather day requests◦ Asbuilts◦ Change order requests◦ Change orders◦ Contractor claims◦ Noncompliance◦ Safety incidents◦ Substantial completions by phase• Airfield status exhibits• RFI responses• Submittal responses• Change Order recommendations• Pay Application recommendations• Recommendation of substantial completion and punchlist• Recommendation of final completion• Maintenance guidance memo• Engineer's certification to funding agencies• All submittals in PDF format unless noted



Team Roles

Table 3 Team Roles

Firm	Description
HDR	<ul style="list-style-type: none">• Project management• Construction administration services• RPR
CECOS	<ul style="list-style-type: none">• Wildlife survey and permitting
CMA	<ul style="list-style-type: none">• Supplemental drainage design services• RPR
Nova*	<ul style="list-style-type: none">• RPR
QEE*	<ul style="list-style-type: none">• Construction administration services• RPR
TSF*	<ul style="list-style-type: none">• Quality assurance construction materials testing

*DBE Firm

ASSUMPTIONS

- If construction extends beyond the timeframe stated in this Task Authorization, additional services may be required.
- 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.
- 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 shall notify the Owner if construction issues are observed but will not direct the Contractor's work. Consultant is not responsible for Contractor's work stoppages.

EXCLUSIONS

- Reserved



Subconsultant Contract

CECOS



June 13, 2024_R1

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

RE: Burrowing Owl Environmental Services Proposal Amendment 3
Palm Beach County International Airport
Central Airfield Improvements

Dear Mr. Parham,

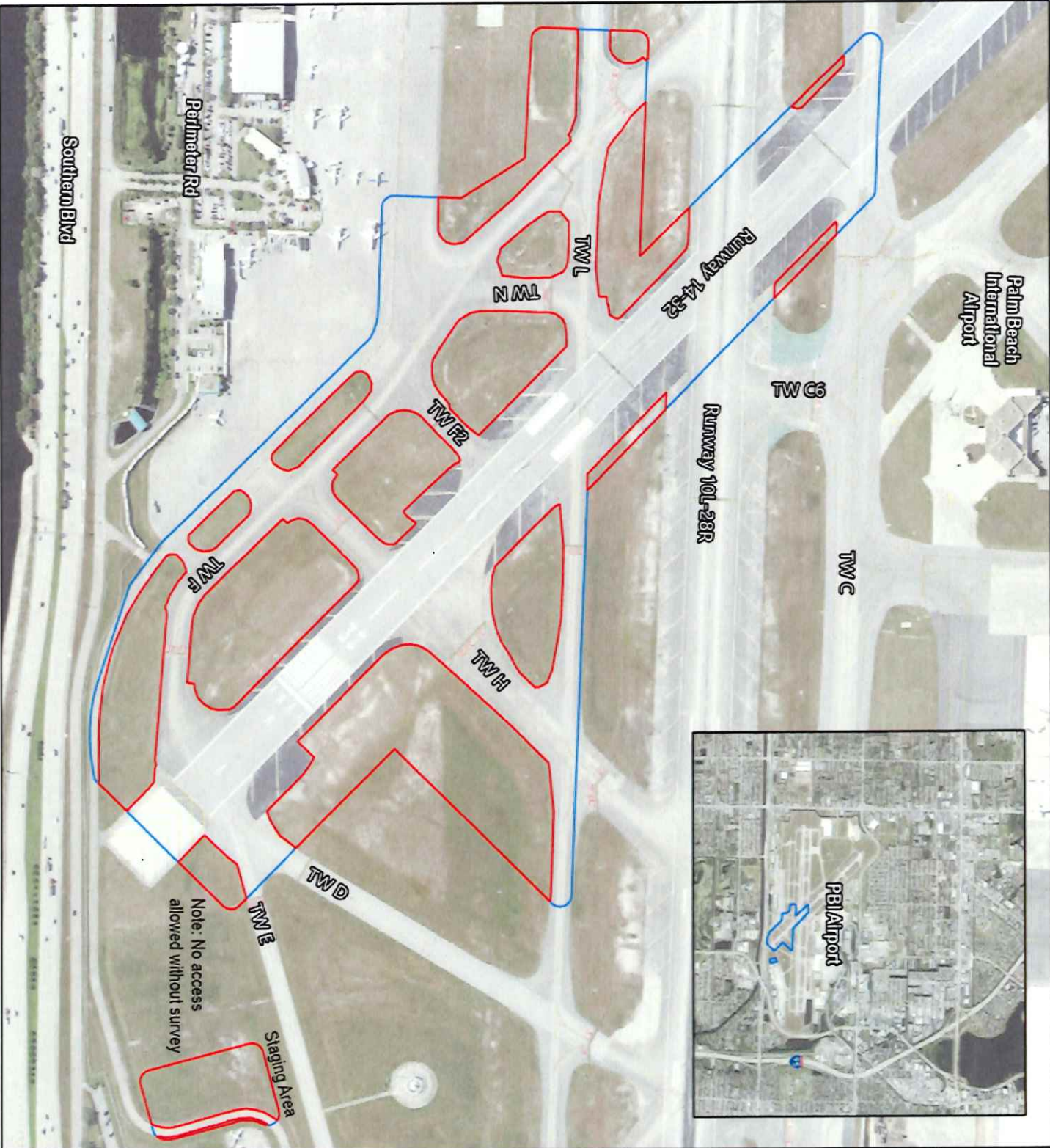
Cyriacks Environmental Consulting Services, Inc. (CECOS) is pleased to submit this updated proposal to HDR to provide professional environmental services associated within the Palm Beach County International Airport (PBI) Central Airfield Improvements project- Alternative 1 shoulder rehabilitation (see **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 U.S. Fish and Wildlife Service (USFWS) Depredation Permit (#MB673729-0). An FWC Migratory Bird Nest Removal Permit was applied for and is anticipated to be issued. An amendment to the permit will be required due to the time lapse, and an additional amendment may be required if additional burrows clusters are identified. It is our understanding that work outside the RSA/TSA will occur. CECOS will conduct up to five (5) preconstruction burrowing owl surveys, two permit amendments, 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 Owl Burrow Preconstruction Survey

CECOS will perform an initial preconstruction survey for the entire project area to assess the number of burrows that fall within the construction area (**Figure 1**). It is anticipated that the initial survey will take two (2) days. Additionally, due to construction phasing, up to four (4) additional surveys will be conducted. The surveys 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 be covered under the FWC Migratory Bird Nest Removal Permit. Digital photography and GPS waypoints will be used to record observations and onsite locations.



Palm Beach International Central Airfield Improvements

Alternate 1 Burrowing Owl Survey Area

Legend

- Alternate 1 - Additional Services Limits + 33' Buffer
- Survey Areas
- Areas to be surveyed

N

0 125 250 500 ft

Scale: 1:4,700

Figure 1

Date Prepared: 3/19/2024

Following identification of burrows, CECOS will immediately notify the Resident Project Representative (RPR) staff on site for protection measures to be put into place including a marked stake placed near the burrow entrance, at a minimum.

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 up to six (6) survey days will be required. A summary memo with the survey findings will be prepared and updated for each survey as needed.

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. A 33-foot 'no entry' buffer will be staked around active burrows. 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.

This effort includes scoping/collapsing up to a maximum of six (6) burrows. Two (2) additional scope and collapse days will be conducted to re-scope burrows as needed. 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 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

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). Should burrows with eggs or flightless young be encountered, these burrows must remain undisturbed until the young have fledged. A 33-foot 'no entry' buffer will be staked around active burrows. 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 six (6) burrows. Two (2) additional scope and collapse days will be conducted to re-scope burrows as needed. 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.

CECOS will prepare a summary memo documenting the results of the 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.

Task 2 – FWC Migratory Bird Nest Removal Permit Amendments

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 an FWC Migratory Bird Nest Removal Permit Amendment to the original Permit Application Number 103587 to request a time extension due to the permit expiring one year after issuance. CECOS will prepare an additional FWC Migratory Bird Nest Removal Permit Amendment to request authorization to collapse additional 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 two responses 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. FEES

Our Time & Material (T&M) fee for the proposed scope of services (labor) is **\$59,125.00** and expenses are **\$2,438.00** for a total fee of **\$61,563.00.**

Table 1– Fee Estimate			
Task No.	Description	Labor Fee	Expenses
Task 1.1	Burrow Preconstruction Survey	\$18,685.00	\$42.25
Task 1.2.1	Burrowing Owl Video Scope, and Collapse – within RSA/TSA	\$11,895.00	\$1,176.75
Task 1.2.2	Burrowing Owl Video Scope, and Collapse – outside RSA/TSA	\$11,895.00	\$1,176.75
Task 2	FWC Migratory Bird Nest Removal Permit Amendments	\$12,350.00	\$0
Task 3	Meetings/Coordination	\$4,300.00	\$42.25
Total		\$59,125.00	\$2,438.00

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.

III. 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 surveys and burrow scoping/collapsing, respectively. Up to six (6) days is estimated to conduct the preconstruction surveys and up to six (6) days is estimated to scope, collapse, and re-scope up to 10 burrows. More than 10 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.

Very truly yours,

Cyriacks Environmental Consulting Services, Inc.

Wendy Cyriacks

President

Cyriacks Environmental Consulting Services, Inc

Fee Estimate Work Sheet

Enter Project Information here -

Project Name:	PBIA Burrowing Owl Survey, Permitting , Scoping & Collapsing Taxiway F Relocation - Amendment 2		
Date Prepared:	3/19/2024		
Date Revised:			
Client:	HDR		

Type of Project	Burrowing-owl Survey	Indirect Expenses (%)	0.0%
-----------------	----------------------	-----------------------	------

Project Name:

Prepared By:

Date Prepared:

Revised:

Phase:

PBIA Burrowing Owl Survey, Permitting , Scoping & Collapsing Taxiway F Relocation - Amendment 2

CECOS, Inc.

3/19/2024

1/0/1900

Burrowing-owl Survey

1.2.1 RSA-TSA scope & collapse		Environmental - Hours						DIRECT EXPENSES			
		Principal	Env Manager	Sr Scientist	Scientist	GIS Specialist	Sub Total				
Task	Description (Additional Lines can be unhidden)	4.0	2.0	38.0	35.0	16.0	95.0	Expenses Item	Qty 1*	# of Units	Unit Cost
1.2.1	Coord w HDR/DOA for field work & results	1	0	1	2	0	4.0	Mileage	3	65	\$ 0.65
	Prep for field (maps, video scope, order/collect materials for burrow reconstruction)	0	0	2	2	2	6.0	video scope rental	3	1	\$ 300.00
	Field survey, video scope, collapse effort	0	0	9	9	0	18.0	burrow reconstruct material	1	1	\$ 150.00
	download data, determine results	1	0	2	2	4	9.0				\$ -
	Prepare documentation & update maps	2	2	6	2	6	18.0				\$ -
	Additional days for scope & collapse (2 days)	0	0	18	18	4	40.0				\$ -
							-				\$ -
							-				\$ -
							-				\$ -
							-				\$ -
							-				\$ -
↓	INSERT COPIED LINES BELOW THIS LINE										\$ -
↑	INSERT COPIED LINES ABOVE THIS LINE										\$ -
	Check	\$1,060.00	\$350.00	\$5,130.00	\$3,675.00	\$1,680.00	--				
	Cost by Employee	\$1,060.00	\$350.00	\$5,130.00	\$3,675.00	\$1,680.00	\$11,895.00				\$ 1,176.75

Labor SubTotal

Indirect Expenses

Direct Expenses

Total

\$11,895.00

\$0.00

\$1,176.75

\$13,071.75

Notes:

Qty 1 = How many times this expense items is to be calculated. For example how many trips or days, at least one.
of Units = How many units will be used for each occurrence, for example number of miles, pieces of equipment or number of staff used for each occurrence, at least one.

Project Name: PBIA Burrowing Owl Survey, Permitting, Scoping & Collapsing Taxiway F Relocation - Amendment 2
Prepared By: CECOS, Inc.
Date Prepared: 3/19/2024
Revised: 1/01/2000
Phase: Burrowing-owl Survey

1.2.2 FWC scope & collapse			Environmental - Hours							DIRECT EXPENSES				
NOTE: Use COPY /INSERT COPIED LINE to insert additional tasks. This is the only way the formulas will be added correctly.			Principal	Env Manager	Sr Scientist	Scientist	GIS Specialist	Sub Total						
			4.0	2.0	38.0	35.0	16.0	95.0	Expenses Item	Qty 1*	# of Units	Unit Cost	Totals	
1.2.2	Coord w HDR/DOA for field work & results		1	0	1	2								
	Prep for field (maps, video scope, order/collect materials for burrow reconstruction)		0	0	2	2	2	6.0	video scope rental	3	1	\$ 300.00	\$ 900.00	
	Field survey,video scope, collapse effort		0	0	9	9	0	18.0	burrow reconstruct material	1	1	\$ 150.00	\$ 150.00	
	download data, determine results		1	0	2	2	4	9.0				\$ -	\$ -	
	Prepare documentation & update maps		2	2	6	2	6	18.0				\$ -	\$ -	
	Additional days for scope & collapse (2 days)		0	0	18	18	4	40.0				\$ -	\$ -	
								-				\$ -	\$ -	
								-				\$ -	\$ -	
								-				\$ -	\$ -	
								-				\$ -	\$ -	
↓	INSERT COPIED LINES BELOW THIS LINE											\$ -	\$ -	
↑	INSERT COPIED LINES ABOVE THIS LINE											\$ -	\$ -	
	Check	\$1,060.00	\$350.00	\$5,130.00	\$3,675.00	\$1,680.00	--					\$	\$ 1,176.75	
	Cost by Employee	\$1,060.00	\$350.00	\$5,130.00	\$3,675.00	\$1,680.00	\$11,895.00					\$	\$ 1,176.75	

Qty 1 = How many times this expense items is to be calculated. For example how many trips or days, at least one.
of Units = How many units will be used for each occurrence, for example number of miles, pieces of equipment or number of staff used for each occurrence, at least one.

Labor SubTotal	\$11,895.00
Indirect Expenses	\$0.00
Direct Expenses	\$1,176.75
Total	\$13,071.75



Subconsultant Contract

Chen Moore & Associates

June 13, 2024

SENT VIA E-MAIL (blehr@chenmoore.com)

Mr. Cody Parham
HDR
1475 Centrepark Blvd., Suite 230
West Palm Beach, FL 33401
561-209-6641

Subject: PBI Central Airfield Improvements – Bid Alternate 1
RPR Construction Inspection and Limited Construction Administration Services
CMA Proposal No. 24-0065.P0001-003

Dear Mr. Parham,

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

PROJECT INTRODUCTION

The Palm Beach 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 and bid phase services for the project, known as the 'Central Airfield Improvements', the PBCDOA wishes for the project design team, including CMA, to provide construction phase services for Bid Alternate 1, depicted in Figure 1 below.

Construction activities will generally consist of construction of airfield pavements and supporting infrastructure.

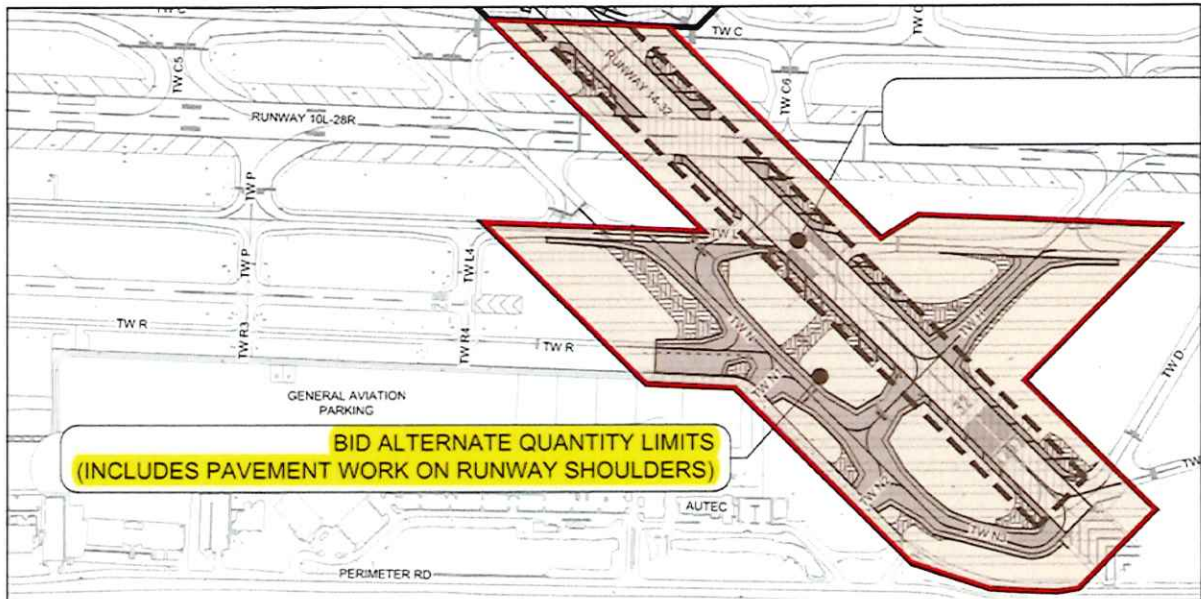


FIGURE 1: Bid Alternate 1 Overall Plan

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 Engineer – Brent Whitfield, P.E.
Senior Engineer – Cole Benjamin, P.E.
Project Engineer – Brandon Sullivan, E.I.
Senior Construction Specialist – Matthew O'Rourke
Senior Inspector – Victor Thomas

Subconsultants: N/A

SCOPE OF SERVICES

TASK 1 – Construction Inspection Support of Stormwater Related Elements – Hourly, Not-to-Exceed

CMA shall be responsible for the site inspection of the stormwater conveyance improvements included as part of the Central Airfield Improvements, Bid Alternate 1 project consisting of stormwater structure modifications and installation, pipe culvert installation, and swale grading. It is anticipated that CMA's Resident Project Representative (RPR) services are assumed to be a total of 29 weeks of full-time field observation based on HDR's current schedule estimate. For estimating purposes, CMA has included additional hours in the not-to-exceed estimate for reporting and documentation, construction schedule slippage, additional unforeseen requests, and occasional consultation of design project engineering staff.

TASK 2 – Construction Administration – Lump Sum

CMA shall assist HDR with the following engineering tasks during the project's construction:

- Review HDR's stormwater conveyance system design for alignment with the PBI master stormwater model.
- Advise if retention areas, pipes, or structures should be resized based on the master stormwater model analysis.
- Advise if any existing condition data conflicts with the existing conditions shown on the plans.
- Minor supplemental analysis of field conditions that differ from the assumptions shown in the drawings. It is assumed that CMA will have two occurrences of such reviews.

Task 2 does not include time for CMA's review and response to contractor generated Requests for Information (RFIs), review and approval of contractor shop drawing submittals, As-built review, or review of contractor generated change proposals. All such requested will be considered as Additional Services.

SCHEDULE AND FEES

Consultant shall schedule work upon receipt of signed approval for this task work order as required. Per discussions with HDR, the goal is to provide on-site RPR services for stormwater related activities on a full-time basis based on the contractor’s schedule for such activities. The total fees for this project will be as follows:

<u>TASK(s)</u>	<u>Task Description</u>	<u>Lump Sum</u>	<u>Hourly/NTE</u>	<u>Total Fees</u>
TASK 1 – CONSTRUCTION INSPECTION SUPPORT				
1.1	Construction Support for Stormwater Improvements	-	\$ 190,340.40	\$ 190,340.40
1.2	Direct Expenses	-	-	\$ 6,680.00
TASK 1 - TOTAL				\$ 197,020.40
TASK 2 – CONSTRUCTION ADMINISTRATION				
2.1	Supplemental Design Services	\$ 1,320.00	-	\$ 1,320.00
TASK 2 – TOTAL				\$ 1,320.00
PROJECT TOTAL				\$ 198,340.40

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.

Respectfully submitted,



Benjamin Lehn, PE, LEED AP
Director – Transportation
03/20/2024

Attachment(s):
Fee Estimate

Owner:							Palm Beach County Department of Airports						
Prime Consultant:							HDR						
Subconsultant:							Chen Moore and Associates, Inc.						
Project Name:							Engineering and Construction Services Amendment for PBI Central Airfield Improvements - Bid Alternate 1						
								CMA					
		Principal Engineer	Senior Engineer	Project Engineer	Senior Construction Specialist	Senior Inspector	CMA Total Hours	CMA Total Costs					
Labor Rates		\$275.00	\$200.00	\$130.00	\$140.00	\$116.86							
Task 1		Construction Inspection Support - Hourly, Not-to-Exceed											
1.1	Construction Support for Stormwater Improvements	10	40	160	600	640	1450	\$	190,340.40				
1.2	Direct Expenses							\$	6,680.00				
Task 1 - Engineering and Construction Inspection Support (NTE)		10	40	160	600	640	1450	\$	197,020.40				
Task 2		Construction Administration (Lump Sum)											
2.1	Supplemental Design Services	0	4	4	0	0	8	\$	1,320.00				
Task 2 - Construction Administration (Lump Sum)		0	4	4	0	0	8	\$	1,320.00				
Project Total (Hourly - Not-to-Exceed)								\$	197,020.40				
Project Total (Lump Sum)								\$	1,320.00				



Subconsultant Contract

Nova Consulting

AMENDMENT TO SUBCONSULTANT AGREEMENT

THIS AMENDMENT TO SUBCONSULTANT AGREEMENT is made by and between _____ (“SUBCONSULTANT”) and HDR Engineering, Inc. (“ENGINEER”).

WHEREAS, SUBCONSULTANT and ENGINEER entered into a Subconsultant Agreement dated _____, 20____; and

WHEREAS, SUBCONSULTANT and ENGINEER wish to amend the Subconsultant Agreement as contained herein.

SUBCONSULTANT and ENGINEER hereby agree as follows:

- 1.1 All terms, conditions and other provisions contained in the Subconsultant Agreement are hereby reaffirmed and incorporated herein.
- 1.2 Attachment B to the Subconsultant Agreement, Description of Subconsultant’s Services, is hereby amended as follows:

See Exhibit A
- 1.3 Attachment C to the Subconsultant Agreement, Basis of Compensation, is hereby amended as follows:

See Exhibit B
- 1.4 Except as modified herein, the Subconsultant Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have executed this Amendment to Subconsultant Agreement and accept all terms and conditions this ____ day of _____, 20__.

“SUBCONSULTANT”

“ENGINEER”

BY: 

BY: _____

NAME: Juan Prieto, PE

NAME: _____

TITLE: Sr. Vice President

TITLE: _____

Nova's Scope of Services

GENERAL

HDR wishes for Nova to provide construction phase services for the Bid Alt 1. The services consist of the following scope items:

- Limited Construction Administration
 - Generally described as assisting HDR in information processing, such as submittals, RFIs, monthly pay app quantities reconciliation.
- Quality assurance
 - Generally described as coordination of requests for testing of earthwork, concrete, base course, asphalt, etc.
- Resident Project Representative (RPR)
 - Assisting HDR with inspections, observations, coordination of tests, and/or observations of tests of the contract work performed or being performed.
 - One (1) Full-time (40 hours/week) on-site Lead RPR during construction. .
 - One (1) Full-time (40 hours/week) on site RPR during construction.
 - Part-time Lead RPR as needed on site during Pre-Construction period and full-time during Post-Construction period.

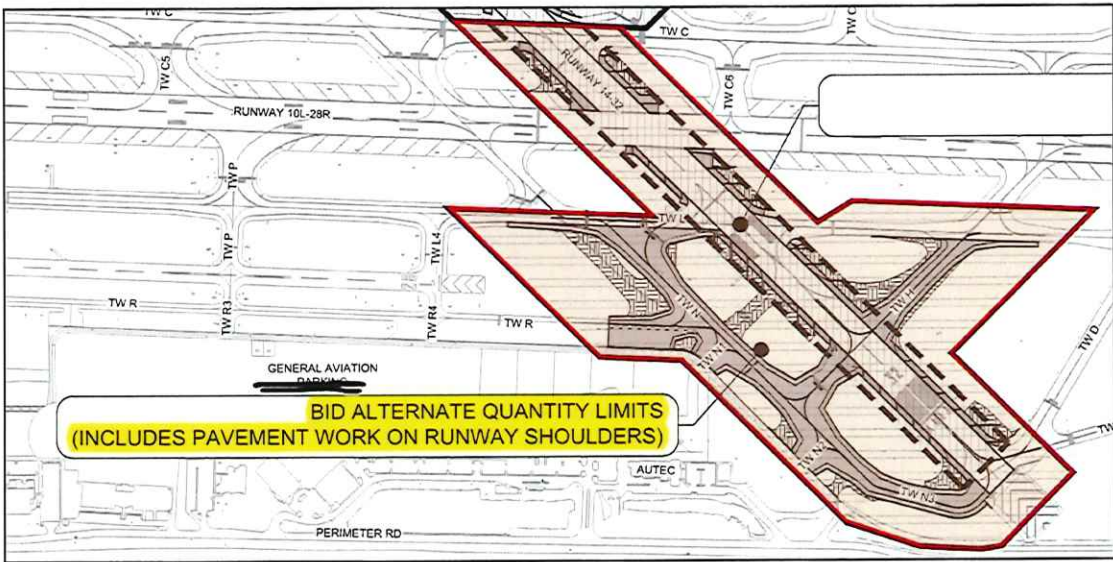


Figure 1 Bid Alternate 1 Overall Plan

Project Schedule

- The schedule of Nova's services shall follow the construction schedule. The anticipated construction schedule is as follows: 28 calendar days / 4 weeks / 1 month during Pre-Construction.
- 391 calendar days / 56 weeks / 13 months from start of field work to final completion.
 - RPR and CA services are based on this duration.
- 30 calendar days / 5 weeks / 1 months from final completion through closeout.
 - RPR and CA services are based on this duration.
 - Substantial completion and final completion services are based on this duration.
- 449 days / 65 weeks / 15 months from NTP to final completion

Bid Alternate Construction Phasing

Schedule

- Preconstruction mobilization is 28 days.
- Construction phase:

Construction Phase	Duration (Calendar Days)	Concurrent Work Duration	Hours	Days	Notes
2-D-ALT	11		0700-1700	M-F	
2-E-ALT	55		2230-0530	Mon Night - Fri Morning	Night work
2-F-ALT	27		0700-1700	M-F	
2-G-ALT	54		0700-1700	M-F	
2-G.1-ALT	20		0700-1700	M-F	Overlaps phase 2-G-ALT
2-H-ALT	25		0700-1700	M-F	
3-A-ALT	60		0700-1700	M-F	Contains drainage work (CMA)
3-B-ALT	30		0700-1700	M-F	Contains drainage work (CMA)
3-B.1-ALT	17		0700-1700	M-F	Overlaps phase 3-B-ALT Contains drainage work (CMA)
3-C-ALT	32		0700-1700	M-F	Contains drainage work (CMA)
3-D-ALT	20		0700-1700	M-F	Contains drainage work (CMA)
3-E-ALT	40		0700-1700	M-F	Contains drainage work (CMA)
3-E.1-ALT		25	0700-1700	M-F	Concurrent with phase 3-E-ALT Contains drainage work (CMA)
Total Construction	391 days / 56 weeks / 13 months				
Closeout	30 days / 5 weeks / 1 months				
Total Contract	449 days / 65 weeks / 15 months				

Nova Consulting, Inc. (Nova) shall provide the personnel that will work under the direction and supervision of the HDR Project Manager (HDR-PM) to perform the following duties for the referenced project:

- Limited Construction Administration (LCA) Services (Lump Sum)
 - Coordination of up to 60 weekly progress meetings, develop the meeting agendas, and issue meeting minutes.

- Set up and update a Document Control system for the project, including all tracking logs (i.e., correspondence, construction plans, Requests-for-Information (RFIs), Change Orders, permits, and shop drawing logs), receive, process, and transmit all documents to stakeholders as required.
 - Review the Contractor's Progress Schedule for compliance with the actual construction activities and recommend approval (or rejection) of the Progress Schedule to the Owner.
 - Assist HDR with the review and preparation of Change Order proposals, if requested.
 - Assist the HDR PM, if requested, to review required project close-out documents which are to be provided by Contractor in accordance with the Construction Contract Documents to obtain final payment, including Operating and Maintenance Manuals, certified As-Built Plans, final schedules, guarantees and warranties, bonds, releases of lien, certificates or other evidence of insurance required, certificates of inspection, tests, and approvals.
 - Assist the HDR PM, if requested, to issue final payment recommendation to the Client.
 - Review up to 15 contractor's monthly pay applications and recommend approval, partial approval, or rejection to the Owner.
- Resident Project Representative (RPR) Services (Time and Materials)
 - Monitor on-site copies of the latest Construction Documents (i.e., Conformed Set of Plans plus revised plan sheets – if any, Technical Specifications, Shop Drawings, Responses to RFIs, permits, and tracking logs).
 - Observe and record daily construction operations for the duration of the project.
 - Prepare a daily construction report (including photographic record) for each day of construction (from NTP to final).
 - Assist HDR, if requested, in coordinating construction activities with stakeholders.
 - Monitor adherence to construction permitting conditions.
 - Assist HDR, if requested, with the review of the Contractor's weekly four-week look ahead schedule for the duration of active construction.
 - Schedule and coordinate the Owner's Quality Assurance Inspection and Testing.
 - Processing of certificates of inspections, tests, and approvals.
 - Processing project technical specifications submittals for provided for compliance with the following: Contractor's Quality Control Plan, Contractor's Safety Plan, Asphalt Job Mix Formula, an Asphalt laydown/lighting plan.
 - Upon receipt of the Contractor's request for substantial completion, assist HDR in determining the status of the work, scheduling and coordinating the final project walk-through. Assist HDR in documenting the list of stakeholder attendants to the final project walk-through and prepare and distribute the punch list for each work area.
 - Observe and monitor the completion of all punch list items for each work area.
 - Upon final completion of all punch list items by the Contractor, assist HDR, if requested, to obtain formal concurrence from each applicable stakeholder for each work area.
 - Upon approval of the punch list items by all stakeholders, provide comments to HDR on the final project completion date.
 - Assist HDR in coordination of required project close-out documents which are to be assembled and provided by Contractor in accordance with the Construction Contract Documents to obtain final payment, including Operating and Maintenance Manuals, certified As-Built Plans, final schedules, guarantees and warranties, bonds, releases of lien, certificates or other evidence of insurance required, certificates of inspection, tests, and approvals.

Assumptions

- An office desk for each RPR will be provided in the Contractor’s trailer.
- LCA and RPR services are programmed from Pre-Construction to Final completion for up to 60-weeks as follows:
 - LCA services: up to 46 hours per week.
 - Pre-Construction RPR Services, Lead RPR up to 20 hours per week for 4 weeks
 - Construction RPR services: 5 - days per week, from 7:00AM to 5:00PM, Lead RPR:40 hours per week, RPR 40 hours/week.
- LCA and RPR services are programmed final completion to project closeout for up to 5-weeks as follows:
 - LCA services: up to 20 hours per week.
 - Lead RPR services: 5 days a week, 40 hours per week.
- Should the assignment require additional hours more than the amount budgeted additional funds will be required.
- No engineering, specialty inspections (i.e., electrical, structural, and mechanical work), surveying, geotechnical, or structural testing investigations are included in this scope of work or fee.
- This scope of work and fee excludes support services for Commissioning.
- The RPR level of effort will be re-evaluated based on the sequence and phasing of construction as approved by PBIA. If additional RPR and CA services are required, additional funding may be necessary.

Exhibit B - Fee Breakdown

Nova Consulting, Inc.
PBI Central Airfield Improvements Project (Bid No. PB 23-3)
Limited Construction Administration and RPR Services: Man-Hour & Fee Calculations

Personnel	Man-Hours per Week	No. Weeks	Total Man- Hours	Weekly Rate	Billing Rate	Total
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Phase 2 - Nova Services from Pre-Construction and Mobilization to Final Completion for Bid Alternate 1 Work (60-weeks)

Limited Construction Administration Services						
						\$ -
Arjun Jain, EI (*) (Sr Const Admin)	16	60	960		\$ 152.48	\$ 146,380.80
Arjun Jain, EI (*) (Sr Const Admin)	4	60	240		\$ 152.48	\$ 36,595.20
Nicholas Cordoves (*) (Const Observ/Doc Control)	10	60	600		\$ 95.75	\$ 57,450.00
V. Colmenares (*) (Const Observ/Doc Control)	16	60	960		\$ 95.75	\$ 91,920.00
	46				Sub-Total =	\$ 332,346.00

RPR Services						
Jesus Misas (Lead RPR)	40	57	2,280		\$ 98.27	\$ 224,055.60
Luis Dante-Catillo (RPR)	40	54	2,160		\$ 88.27	\$ 190,663.20
Vehicle and cell phone (weekly)	--	111	--	\$275.00	--	\$ 30,525.00
	80				Sub-Total =	\$ 445,243.80

Travel Stipend + per Diem =	3,712.20
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Phase 2 Sub-Total =	\$ 781,302.00
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Phase 3 - Nova Services for Bid Alternate Work Closeout (+ 5-weeks)

Limited Construction Administration Services						
Arjun Jain, EI (*) (Sr Const Admin)	8	5	40		\$ 152.48	\$ 6,099.20
Arjun Jain, EI (*) (Sr Const Admin)	2	5	10		\$ 152.48	\$ 1,524.80
Nicholas Cordoves (*) (Const Observ/Doc Control)	2	5	10		\$ 95.75	\$ 957.50
V. Colmenares (*) (Const Observ/Doc Control)	8	5	40		\$ 95.75	\$ 3,830.00
	20				Sub-Total =	\$ 12,411.50

RPR Services						
Jesus Misas (Lead RPR)	40	5	200		\$ 98.27	\$ 19,654.00
Vehicle and cell phone (weekly)	--	5	--	\$275.00	--	\$ 1,375.00
	40				Sub-Total =	\$ 21,029.00

Travel Stipend + per Diem =	\$ 559.35
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Phase 3 Sub-Total =	\$ 33,999.85
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\$ 815,301.85

NOTE: Should the assignment require additional man-hours more than the amount budgeted, additional funds will be required.

(*) = Excludes Travel Stipend / per Diem

Summarize costs	
Const. Administration (LS):	\$ 344,757.50
RPR (T&M):	\$ 434,372.80
Expenses (T&M):	\$ 36,171.55



Subconsultant Contract
Quantum Electrical Engineering

Exhibit A Scope

After completion of design and bid phase services for the project, known as the 'Central Airfield Improvements', the PBCDOA wishes for the SUBCONSULTANT to provide construction phase services for bid alternate 1.

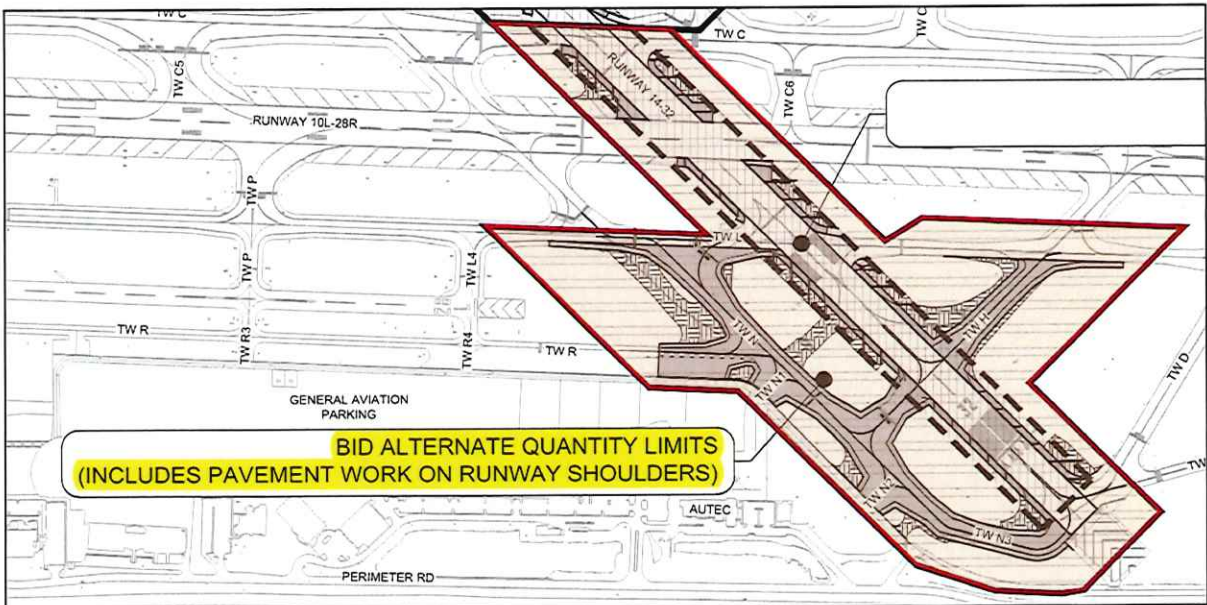


Figure 1 Bid Alternate 1 Overall Plan

Construction activities will generally consist of construction of airfield pavements and supporting infrastructure.

PROJECT DESCRIPTION AND GENERAL SCOPE

The services consist of the following scope items:

- Construction administration
 - Generally described as information review and processing, such as submittal review, RFIs, pay app review, evaluation of substitutions, certification, etc. This work is typically performed under the supervision of the Engineer of Record (EOR).
 - Supplemental design services to align the Bid Alt 1 scope of work with the base bid and change order work previously procured and performed. Supplemental design will consist of:
 - Partial or complete rehabilitation of Runway 14-32 shoulder pavements south of Taxiway C, avoiding damage to previously installed shoulder lighting.
 - Revisions to phasing, haul routes, aircraft detours, and work durations, based on previous coordination with DOA Operations and the Contractor.

- Revisions to project limits, based on recent design progress on the adjacent Taxiway R improvements project.
- Resident Project Representative (RPR)
 - Generally described as the firm(s) duly authorized by the PBCDOA to be responsible for inspections, observations, tests, and/or observations of tests of the contract work performed or being performed, or of the materials furnished by the Contractor, and acting directly or through an authorized representative.
 - Full-time on site RPR during construction
 - Part-time as needed on site RPR prior to mobilization and after substantial completion

Task 1 Resident Project Representative (Time and Materials, Not to Exceed)

- Resident Project Representative (RPR). SUBCONSULTANT will provide the services of an RPR at the Site to provide observation of Contractor's work. SUBCONSULTANT will provide the services of a senior RPR to oversee written communications, attend meetings, and issue records of decision. The SUBCONSULTANT shall provide daily observation reports to the PBCDOA.

The SUBCONSULTANT shall provide an on-site RPR for the periods shown in Table 1.

Table 1 RPR Hours by Phase

Firm	Pre-Construction RPR	Construction RPR	Post-Construction RPR
QEE	1 x 20 hrs/wk (4 weeks)	1 x 40 hrs/wk (56 weeks)	1 x 20 hrs/wk (5 weeks)

- The SUBCONSULTANT shall attend up to 65 weekly construction progress meetings. The SUBCONSULTANT will review the agenda and minutes issued by the DOA.
- Change Proposals and Claims: SUBCONSULTANT will review and respond to up to 10 Change Proposals. SUBCONSULTANT will review each duly submitted Change Proposal from Contractor and recommend either denying the Change Proposal in whole, recommend approving it in whole, or recommend denying it in part and approving it in part. CONSULTANT shall maintain a tracking log of change proposal status.
- The SUBCONSULTANT shall review the following technical specification submittals for compliance with the contract documents as a supplement to the EOR's review.
 - Safety Plan Compliance Document
- The SUBCONSULTANT will review up to 15 contractor pay applications and recommend either rejection, approval, or partial approval to the PBCDOA.
 - SUBCONSULTANT will track quantities of work performed on a daily basis and reconcile quantities with the contractor on a weekly basis.
- After notice from Contractor that Contractor considers the entire work ready for its intended use, in company with PBCDOA, EOR, and Contractor, visit the site to review the work and determine the status of completion. The SUBCONSULTANT shall perform a substantial completion site visit review and provide a punch list of open items for the contractor to address for each phase of work and at the end of the construction phases. SUBCONSULTANT will incorporate the PBCDOA's and EOR's punch list items into the

master punch list. SUBCONSULTANT will recommend to the PBCDOA on what date the substantial completion notice should be recorded.

- The SUBCONSULTANT shall perform a final completion site visit to observe the contractor's work to address the punch list. SUBCONSULTANT will recommend to the PBCDOA on what date the final completion notice should be recorded.
- Weather Days. Subconsultant shall record the weather each day in the RPR reports, and advise what activities were affected and for how long. Consultant shall keep a log of contractor's weather day delay requests and provide recommendations to the DOA to accept or reject each day requested.
- Meeting participation
 - SRM panel attendance and presentation of construction phasing
 - Pre-construction conference - attendance
 - Up to 65 progress meetings
- Noncompliance and Safety Incidents. Subconsultant will issue notices of noncompliance and safety incidents and track contractor's cure efforts.

Task 2 Construction Administration (Lump Sum)

1. Supplemental design

1. Subconsultant shall make up to 2 updates to the design documents to revise the scope of work to the DOA's needs and to align the scope with work previously performed under the base bid.
 1. Examples of updates include phasing limits, aircraft taxi detour routes, work durations, coordination with adjacent rehab of Taxiway R, and changes to the extents of the Runway 14-32 shoulder rehabilitation.
 2. Subconsultant shall update Volumes I and II specifications with revised project scope, phases, durations, and liquidated damages.

2. Meetings

1. Subconsultant shall attend the preconstruction meeting.
2. Subconsultant shall attend up to 65 weekly construction meetings starting at NTP and completing at final completion
3. Subconsultant shall attend up to 12 monthly stakeholder outreach meetings, held virtually
4. Subconsultant shall host up to 65 weekly design team internal preparation meetings to coordinate open action items and prepare for the weekly construction meetings.
3. Schedule. SUBCONSULTANT shall review the contractor's monthly baseline schedule and weekly four-week look ahead schedule for the duration of active construction.
4. Submittal Review. The SUBCONSULTANT shall review Front End and tech spec submittals for compliance with the contract documents. Consultant shall provide a tracking log for anticipated submittals to the contractor for reference in making the contractor's own log.
5. Substitutions. Subconsultant shall evaluate up to 5 contractor requests for substitutions and make a recommendation to the DOA.

6. Inspections and tests. Receive and review certificates of inspections, tests, and approvals required by the Construction Contract Documents. SUBCONSULTANT's review of such certificates will be for the purpose of determining that the results certified indicate compliance with the Construction Contract Documents and will not constitute an independent evaluation that the content or procedures of such inspections, tests, or approvals comply with the requirements of the Construction Contract Documents.
7. RFIs. Subconsultant shall accept from Contractor and Owner submittal of matters concerning the requirements of the Construction Contract Documents (sometimes referred to as requests for information—RFIs) or relating to the acceptability of the Work under the Construction Contract Documents. Within 2 weeks, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Construction Contract Documents for up to 20 RFIs. CONSULTANT shall maintain a tracking log of RFI status.
8. Field instructions. Subconsultant will issue up to 20 field instructions clarifying or interpreting the work required that results in no change to cost or schedule.
9. Field bulletins. Subconsultant will issue up to 15 field bulletins depicting minor modifications to the work which may result in changes to project cost or schedule.
10. Change Proposals and Claims: SUBCONSULTANT will review and respond to up to 10 Change Proposals. SUBCONSULTANT will review each duly submitted Change Proposal from Contractor and recommend either denying the Change Proposal in whole, recommend approving it in whole, or recommend denying it in part and approving it in part. CONSULTANT shall maintain a tracking log of change proposal status.
11. Contractor Pay Applications. The SUBCONSULTANT will review up to 15 contractor pay applications and recommend either rejection, approval, or partial approval to the COUNTY.
12. Substantial Completion. After notice from Contractor that Contractor considers the entire work ready for its intended use, in company with COUNTY and Contractor, visit the site to review the work and determine the status of completion. The SUBCONSULTANT shall perform a substantial completion site visit review and provide a punch list of open items for the contractor to address for each phase of work and at the end of the construction phases. SUBCONSULTANT will incorporate the COUNTY's and EOR's punch list items into the master punch list. SUBCONSULTANT will recommend to the COUNTY on what date the substantial completion notice should be recorded. Substantial completion activities shall be performed for 13 phases of work.
13. Final Completion. The SUBCONSULTANT shall perform a final completion site visit to observe the contractor's work to address the punch list. SUBCONSULTANT will recommend to the COUNTY on what date the final completion notice should be recorded.
14. Maintenance Guidance. Upon issuance of the substantial completion notice, SUBCONSULTANT shall provide maintenance checklists and schedules for materials and equipment installed under the project.
15. Contractor's Completion Documents. SUBCONSULTANT will receive from Contractor, review, and transmit to Owner maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance required by the Construction Contract Documents, certificates of inspection, tests and approvals. SUBCONSULTANT will receive from Contractor, review, and transmit to Owner the annotated record documents

which are to be assembled by Contractor in accordance with the Construction Contract Documents to obtain final payment. The extent of SUBCONSULTANT's review of record documents shall be to check that Contractor has submitted the information required by the contract documents.

16. The SUBCONSULTANT shall provide engineer's certification to funding sources and permitting authorities.

Project Schedule

The schedule of SUBCONSULTANT'S services shall follow the construction schedule.

TASKS 1 AND 2 RPR AND CONSTRUCTION ADMINISTRATION

The anticipated construction schedule is as follows:

- 28 calendar days / 4 weeks / 1 months mobilization period from NTP to start of field work
 - Preconstruction services are based on this duration
- 391 calendar days / 56 weeks / 13 months from start of field work to substantial completion
 - RPR and CA services are based on this duration
- 30 calendar days / 5 weeks / 1 months from substantial completion to final completion
 - RPR and CA services are based on this duration
 - Substantial completion and final completion services are based on this duration
- 449 days / 65 weeks / 15 months from NTP to final completion

CONSTRUCTION PHASING

Construction Phase	Duration (Calendar Days)	Work Hours
Pre-Construction	28	
Mobilization	28	N/A
Construction	391	
2-D-ALT	11	7am – 5pm, M-F
2-E-ALT	55	10:30pm – 5:30am, Mon Night-Fri Morning
2-F-ALT	27	7am – 5pm, M-F
2-G-ALT	54	7am – 5pm, M-F
2-G.1-ALT	20	7am – 5pm, M-F
2-H-ALT	25	7am – 5pm, M-F
3-A-ALT	60	7am – 5pm, M-F
3-B-ALT	30	7am – 5pm, M-F
3-B.1-ALT	17	7am – 5pm, M-F
3-C-ALT	32	7am – 5pm, M-F
3-D-ALT	20	
3-E-ALT	40	
3-E.1-ALT	25*	
Post-Construction	30	
Substantial Completion	30	7am – 5pm, M-F
Total	449	

*Sub-phase is concurrent with its corresponding phase

Summary of Deliverables
Table 2 Deliverables by Phase

Task	Deliverables
Task 1 RPR	<ul style="list-style-type: none">• Daily RPR Reports• Change Order recommendations• Pay Application recommendations• Recommendation of substantial completion and punchlist• Recommendation of final completion• Contractor's completion documents• All submittals in PDF format unless noted
Task 2 Construction Administration	<ul style="list-style-type: none">• RFI responses• Submittal responses• Change Order recommendations• Pay Application recommendations• Recommendation of substantial completion and punchlist• Recommendation of final completion• Maintenance guidance memo• Engineer's certification to funding agencies• All submittals in PDF format unless noted

Exhibit B Fee Breakdown

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS- Palm Beach International Airport Central Area Improvements Alterante 1 CA/RPR Services
QUANTUM ELECTRICAL ENGINEERING, INC.

SCOPE FEE SUMMARY

FEE PROPOSAL ELECTRICAL CA to HDR 03/16/2024

Rate	\$170.00	\$150.00	\$145.00	\$85.00	\$140.00	\$48.00	TOTAL	
PHASE OF WORK	Proj. Mgr. Hours	Prof. Eng Hours	Proj. Eng Hours	CADD/Tech Hours	Field Eng. Hours	Clerical Hours	Total Hours	Expenses
TASK 1 RPR Services								
Pre-Construction RPR Services (4 weeks@20 hours/week)					80		80	\$11,200.00
RPR Services								
Full Time RPR (51 weeks @ 40 hours)					2040	51	2091	\$288,048.00
Post Construction RPR (5 weeks @ 20 hours)					100		100	\$14,000.00
Weekly Progress Meetings & Prep (60 meetings @ 1 hours)					60		60	\$8,400.00
Schedule Review & Coordination (47 schedules @ 2 hours)					94		94	\$13,160.00
Review Record Drawings					8		8	\$1,120.00
Subtotal	0	0	0	0	2382	51	2433	\$335,928.00
TASK 2 Construction Administration Services								
Supplemental Design		32	19	20		8	79	\$9,639.00
Review and Approve Shop Drawings		12				4	16	\$1,992.00
On-Site Part Time Observation (4 hrs month x 12 months)		48					48	\$7,200.00
Virtual Construction Coordination Meetings (65 meetings)		65					65	\$9,750.00
Weekly Internal Team Meetings (65 meetings)			65				65	\$9,750.00
RFIs, Field Bulletins, Field Instructions		40		20			60	\$7,700.00
Change Orders (5 Change Order reviews)		10					10	\$1,500.00
Substantial Completion		8					8	\$1,200.00
Final Completion		8					8	\$1,200.00
Prepare Record Documents		8		24			32	\$3,240.00
Subtotal	0	296	19	64	0	12	391	\$53,171.00
Grand Total Hours	0	296	19	64	2382	63	2824	
Grand Total Labor Cost	\$0.00	\$44,400.00	\$2,755.00	\$5,440.00	\$333,480.00	\$3,024.00		\$389,099.00



Subconsultant Contract

Tierra SF



March 18, 2024

HDR

1475 Centrepark Boulevard – Suite 230

West Palm Beach, Florida 33401

Attn: Cody Parham, P.E. | Project Manager

Email: cody.parham@dhdrinc.com

Phone: (561) 209-6641

Subject: Proposal for Geotechnical and Construction Material Testing Services
 Airfield Pavement Rehabilitation and Reconstruction Improvements
 Palm Beach International Airport (PBI)
 Palm Beach County, Florida
 TSFGeo Proposal No. 2403-199

Dear Mr. Parham:

As requested, Tierra South Florida, Inc. (**TSFGeo**) is pleased to submit this proposal for providing Geotechnical and Construction Material Testing Services for the above-referenced project. Herein, we provide a general discussion of services that we understand will be required for this project, present our Schedule of Fees for such services.

PROJECT DESCRIPTION

Our proposal is based on preliminary information provided to this office. We understand that geotechnical investigation, soil, concrete, asphalt monitoring and laboratory services are required for the construction of airfield pavements and supporting infrastructure.

QUALIFICATIONS

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

TSFGeo's Florida offices, located in West Palm Beach, Miami and Tampa, have over 40 engineers, inspectors, and support staff available to assist our clients. Our inspectors are ACI and AWS trained/certified in their respective disciplines, as required by building codes and industry standards. Our engineering staff includes registered professional engineers with significant construction experience in South Florida.

TSFGeo has earned a reputation for delivering quality service at reasonable costs. TSF has successfully completed thousands of projects for a variety of industries and organizations, including private, corporate and industrial clients, medical facilities, civilian and military agencies of the federal, state and local governments, colleges and universities, and local education agencies.

2765 Vista Parkway, Suite 10 • West Palm Beach, Florida 33411

561-687-8536 • www.TSFGeo.com

State of Florida Professional Engineers License # 28073

PROPOSED SCOPE OF SERVICES

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

Based on the experience we have had in other projects like this and our understanding of the project requirements, we anticipate that the following testing services will be required during the design and construction phases of the project.

GEOTECHNICAL SERVICES

Geotechnical Investigation Services as outlined in Exhibit A, Scope of Services provided by HDR will include the following:

- Perform ten (10) asphalt cores.
- Perform five (5) SPT borings to 10 feet.
- Perform one (1) sieve analyses.
- Perform one (1) organic content test.
- Utility Coordination.
- Soil Boring Location Plan.
- Pavement core information including base information. Soil Boring profile denoting boring number, Unified Soil Classification (USC), location of groundwater table depth, number of blows, standard penetration resistance in blows per foot, northing and easting, date performed, and depth in feet. Laboratory test results.

The Geotechnical Report will include exhibits and figures to illustrate the geotechnical investigation and findings.

Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our experience, however, is that the utility companies will not mark privately owned or airside utilities. **All utilities will need to be cleared via GPR by a specialty utility locating company, or by the airport.** It is our understanding that the work will be conducted during the daytime. **Our fieldwork will be performed by TSF personnel, escorted by HDR personnel.**

GEOTECHNICAL SERVICES ESTIMATED FEES

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

Field Investigation	\$ 7,640.00
Laboratory Testing	\$ 210.00
Engineer / Coordination / Management	<u>\$ 8,950.00</u>
TOTAL	\$ 16,800.00

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

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

SCHEDULE AND AUTHORIZATION

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present schedule, we can commence work within several days of project approval (weather permitting) and after utilities are cleared. Fieldwork will take about 2 to 3 days to complete. The written report can be submitted in about three weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary results can be provided to appropriate parties prior to submittal of the written report.

CONSTRUCTION MATERIAL TESTING SERVICES

- Inspection of asphalt plant supplier prior to starting construction;
- In-place density tests (using nuclear density methods) on embankment, utility backfill along with representative Proctor tests, Gradation, Atterberg Limits and Organic Content tests;
- In-place density tests per ASTM D1556/D6938 on compacted subgrade material, along with representative LBR tests, Gradation and Atterberg Limits tests;
- In-place density tests per ASTM D1556/D6938 on subbase and base materials, along with LBR tests, Gradation, Proctor tests, and Atterberg Limits
- Obtain aggregate base samples for base material and conduct sieve analysis to confirm gradation requirements per material specifications
- Compressive strength tests for miscellaneous structural concrete
- Provide senior engineering technician to assist with asphalt plant inspections and testing during initial test section;
- Provide senior engineering technician to assist with asphalt plant and field inspections and testing during production;
- Witness asphalt core drilling and delivery to asphalt plant;
- Compute percentage of material within specification limits (PWL) for each lot of paving;
- Issue daily reports in FAA format to Civil Designer

PROFESSIONAL SERVICES

- Professional Engineer registered in the State of Florida, to supervise field and laboratory activities, review and sign/seal daily laboratory reports.
- Administrative / Clerical Assistant to prepare and distribute reports.

CONSTRUCTION MATERIAL TESTING ESTIMATED FEES

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

Construction Material Testing: \$ 138,700.00

GEOTECHNICAL AND CONSTRUCTION MATERIAL TESTING ESTIMATED FEES

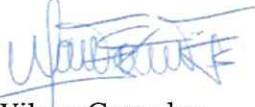
Geotechnical Services:	\$ 16,800.00
Construction Material Testing Services:	<u>\$ 138,700.00</u>
TOTAL:	\$ 155,500.00

Airfield Pavement Rehabilitation and Reconstruction Improvements
TSFGeo Proposal No. 2403-199

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

Respectfully submitted,

TSFGeo



Wilson Gonzalez
Construction Operations Manager



Ramakumar Vedula, P.E.
Principal Engineer

Attachments: Geotechnical Unit Fee Schedule
 Materials Testing Unit Fee Schedule
 General Notes – Authorization
 General Conditions

Airfield Pavement Rehabilitation and Reconstruction Improvements
TSFGeo Proposal No. 2403-199

Fees Breakdown for Geotechnical and Construction Materials Testing Services

Airfield Pavement Rehabilitation and Reconstruction Improvements
TSFGeo Proposal No. 2403-199

ITEM	Quantity	Rate	Units	Extended
GEOTECHNICAL SERVICES				
FIELD INVISTIGATION				
Mobilization of Men and Equipment				
Truck-Mounted Equipment	3	\$ 500.00	LS	\$ 1,500.00
Support Vehicle	3	\$ 250.00	day	\$ 750.00
Standard Penetration Test Borings (By Truck-Mounted Equipment)				
Land: 0 - 50 ft depth	70	\$ 16.00	L.F.	\$ 1,120.00
50 - 100 ft depth	0	\$ 20.00	L.F.	\$ -
Grout-Seal Boreholes (By Truck-Mounted Equipment)				\$ -
Land: 0 - 50 ft depth	70	\$ 9.00	L.F.	\$ 630.00
50 - 100 ft depth	0	\$ 10.00	L.F.	\$ -
Casing (By Truck-Mounted Equipment)				\$ -
Land: 0 - 50 ft depth	70	\$ 7.00	L.F.	\$ 490.00
50 - 100 ft depth	0	\$ 11.00	L.F.	\$ -
Field Permeability (BHP)	0	\$ 500.00	test	\$ -
Pavement Cores, Asphalt	10	\$ 225.00	each	\$ 2,250.00
Coring Machine + Generator Rental	2	\$ 450.00		\$ 900.00
Subtotal				\$ 7,640.00
LABORATORY TESTING				
Natural Moisture Content Tests	1	\$ 30.00	test	\$ 30.00
Grain-Size Analysis - Full Gradation	1	\$ 85.00	test	\$ 85.00
Grain-Size Analysis - Single Sieve	1	\$ 45.00	test	\$ 45.00
Organic Content Tests	1	\$ 50.00	test	\$ 50.00
Subtotal				\$ 210.00
ENGINEERING / COORDINATION / MANAGEMENT				
Principal Engineer	2	\$ 275.00		\$ 550.00
Senior Engineer	8	\$ 250.00		\$ 2,000.00
Project Engineer	16	\$ 215.00		\$ 3,440.00
Senior Technician	24	\$ 90.00		\$ 2,160.00
CADD	8	\$ 100.00		\$ 800.00
Subtotal				\$ 8,950.00
Geotechnical Services Total Estimated Fees				\$ 16,800.00
CONSTRUCTION MATERIAL TESTING				
LABORATORY TESTING SERVICES				
Modified or Standard Proctor	8	\$ 125.00	test	\$ 1,000.00
LBR	4	\$ 350.00	test	\$ 1,400.00
Sieve Analysis	12	\$ 85.00	test	\$ 1,020.00
Organic Content	8	\$ 50.00	test	\$ 400.00
Atterberg Limits	8	\$ 85.00	test	\$ 680.00
Subtotal				\$ 4,500.00
CONCRETE / SOIL / ASPHALT				
Sr. Engineering Technician - Concrete	40	\$ 90.00	hour	\$ 3,600.00
Compression Testing of Concrete Cylinders-(set of 5)	15	\$ 150.00	set	\$ 2,250.00
Sr. Engineering Technician - Soils	380	\$ 90.00	hour	\$ 34,200.00
Sr. Engineering Technician - Asphalt Plant	460	\$ 95.00	hour	\$ 43,700.00
Sr. Engineering Technician - Asphalt Field	460	\$ 95.00	hour	\$ 43,700.00
Subtotal				\$ 127,450.00
PROFESSIONAL AND TECHNICAL SERVICES				
Principal Engineer	15	\$ 275.00	hour	\$ 4,125.00
Staff Engineer	15	\$ 135.00	hour	\$ 2,025.00
Clerical	10	\$ 60.00	hour	\$ 600.00
Subtotal				\$ 6,750.00
Construction Material Testing Services Total Estimated Fees				\$ 138,700.00
Geotechnical and Construction Material Testing Services Total Estimated Fees				\$ 155,500.00

General Notes:

Please note the following procedures will apply to our services:

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



END OF EXHIBIT A

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

Exhibit B
Work Break Down Fee Schedule
Additional Services for R-2017-0409 PBI Central Airfield Improvements 'Bid Alt 1 Construction 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	\$130.00		
Task 1 Resident Project Representative (RPR) Not to Exceed										
RPR		536				580			1,116	
									0	
									0	
1 - Subtotal Hours	0	536	0	0	0	580	0	0	1,116	
1 - Subtotal Estimated Labor Cost	\$0.00	\$134,000.00	\$0.00	\$0.00	\$0.00	\$81,200.00	\$0.00	\$0.00	\$215,200.00	\$215,200.00
Task 2 Construction Administration (CA) Lump Sum										
PM and sub admin (16 hr setup + 2 hr/mo *15 mo + 8 hr closeout)		54	54					54	162	
Construction Management Plan		8	35			5			48	
Supplemental Design	10	16	40	2		60			128	
FAA Submittals		2	10			10			22	
Preconstruction, CA team, and DOA progress meeting (65)		260	162.5			65			488	
Stakeholder Coordination		20	12						32	
Maintain contract documents			56						56	
Construction schedule review (65)		30	40						70	
Front End and Tech Spec submittal review	5	5	20			30			60	
Substitution Request evaluation (5)	5	10	40			8			63	
DBE monitoring		4				4			8	
Review/document QA inspections and tests		4	53			40			97	
Asbuilt survey and record drawing review		15		30					45	
Clarification and Interpretations (RFIs) (20)	65	80	160			200			505	
Field Instruction		25		50		65			140	
Field Bulletin		40		65		50			155	
Review change proposals (10)	10	75	40			85			210	
Phasing coordination with Ops		130		130					260	
Review contractor pay applications (15)		30	15			35			80	
Phase and Substantial Completion site visit end punch list		78				75			153	
Final completion site visit and recommendation		8	30			8			46	
Maintenance checklist and schedule		20				40			60	
Review contractor's completion documents		10	40						50	
EOR Certifications			10			5			15	
									0	
2 - Subtotal Hours	95	924	817.5	277	0	785	0	54	2,953	
2 - Subtotal Estimated Labor Cost	\$26,125.00	\$231,000.00	\$192,112.50	\$55,400.00	\$0.00	\$109,900.00	\$0.00	\$7,020.00	\$821,557.50	\$821,557.50
Task 3 Reserved										
									0	
									0	
									0	
									0	
3 - Subtotal Hours	0	0	0	0	0	0	0	0	0	
3 - Subtotal Estimated Labor Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Task 4 Reserved										
									0	
4 - Subtotal Hours	0	0	0	0	0	0	0	0	0	
4 - Subtotal Estimated Labor Cost	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0	\$0.00
Total Hours	95	1460	817.5	277	0	1365	0	54	4,069	
Billable Hourly Rate	\$275.00	\$250.00	\$235.00	\$200.00	\$180.00	\$140.00	\$120.00	\$130.00		
Total HDR Labor Effort	\$26,125	\$365,000	\$192,113	\$55,400	\$0	\$191,100	\$0	\$7,020	\$836,757.50	\$836,757.50

Subconsultants

TASK	DESCRIPTION	QUANTITY	DBE	ITEM	UNIT COST	AMOUNT
	Expenses					
	CECOS, Inc.	1	1		\$61,563.00	\$61,563.00
	Chen Moore	1			\$198,340.40	\$198,340.40
	Nova Consulting	1	1		\$815,301.85	\$815,301.85
	Quantum Electrical Engineering	1	1		\$389,099.00	\$389,099.00
	Tierra South Florida	1	1		\$155,500.00	\$155,500.00
	TY Lin				\$0.00	\$0.00
TOTAL EXPENSES						\$1,619,804.25
DBE PARTICIPATION						57%

Exhibit B
Work Break Down Fee Schedule
Additional Services for R-2017-0409 PBI Central Airfield Improvements 'Bid Alt 1 Construction 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	\$130.00		
Reimbursables (T&E)										
Reproduction	# Drawings	# Pages	# Sets							
	@	@								
	\$ 3.00	\$ 0.50								
Conformed for construction drawings	375		3					\$ 3,375.00		
Meeting Exhibits	15		3					\$ 135.00		
Project Manual		650	3					\$ 975.00		
									Total Reproduction	\$ 4,485.00
Postage/Delivery	# Packages	# Packages								
	@	@								
	\$ -	\$ -								
Conformed for construction documents	0	0						\$ -		
									Total Postage/Delivery	\$ -
Travel			Airfare @	Rental Car @	Logging @	Meals @	Mileage			
	# People	# Days	\$ 300.00	\$ 100.00	\$ 250.00	\$ 40.00	\$ 0.65			
	\$ -	\$ -								
PM site visits and RPR (12 mo * 4.5 weeks * 2 visit)							4220	\$ 2,743.00		
EOR and Support Visits (2 visit per month for 12 month construction)	1	23	0	23	23	71	0	\$ 10,890.00		
									Total Travel	\$ 13,633.00
Permitting										
	# Burrows	Cost								
	\$ -									
Burrow Collapse	19	\$ 1,900.00						\$ 36,100.00		
								\$ -		
									Total Permitting	\$ 36,100.00
									Reimbursables (Not to Exceed)	\$54,218.00
Total Amendment 3 Task 8-HDR-2024-PBIA Contract Value Additional Services for PBI Central Airfield Rehab R-2017-0409										\$2,510,779.75

HDR Engineering Inc.
PBI Central Airfield Improvements

Contract History								
Task	NTP	Project Name	Status		Contract Value	Total Invoiced Completed	Remaining	% Billed Through 6/26/2024
Original Agreement								
R2017.0409	4/4/2017	Central Airfield Improvements	Complete	Labor - L.S.	\$1,192,980.88	\$1,180,658.54	\$12,322.34	99%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$36,045.50	\$36,045.50	\$0.00	
CSA 1								
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	
CSA 2								
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	
CSA 3								
3-HDR-2022-PBIA	11/16/2022	Add Alternate 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	
CSA 4								
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	
Amendment 1								
5-HDR-2023-PBIA	7/11/2023	Construction Services	In process	Labor - L.S.	\$929,510.00	\$634,032.00	\$295,478.00	68%
				T&M	\$1,203,001.56	\$902,318.54	\$300,683.02	
				Expenses	\$123,130.00	\$623.74	\$122,506.26	
Amendment 2								
6-HDR-2024-PBIA	3/5/2024	Add design services	In process	Labor - L.S.	\$205,072.23	\$135,098.00	\$69,974.23	66%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$250.00	\$0.00	\$250.00	
CSA 7-HDR-2024-PBIA								
7-HDR-2024-PBIA	Forthcoming	Bid Alt 1 RPR Services	Forthcoming	Labor - L.S.	\$97,630.60	\$0.00	\$97,630.60	0%
				T&M	\$0.00	\$0.00	\$0.00	
				Expenses	\$2,355.00	\$0.00	\$2,355.00	
Amendment 3								
6-HDR-2024-PBIA	Forthcoming	Construction Phase Services for Bid Alternate 1	Forthcoming	Labor - L.S.	\$1,020,806.00	\$0.00	\$1,020,806.00	0%
				T&M	\$1,390,466.20	\$0.00	\$1,390,466.20	
				Expenses	\$99,507.55	\$0.00	\$99,507.55	
				Subtotal	\$6,505,695.49	\$3,087,838.63	\$3,417,856.86	47%

EXHIBIT B-I: Summary of Fees

This Amendment No. 3 as described herein, consists of 1 task. As summarized below, these initial efforts have an overall budget of \$2,510,779.75.

LEVEL I TASKS:

TASK LEVEL / NO.	DESCRIPTION	LUMP SUM	NOT TO EXCEED (T&E)	REIMBURSABLE EXPENSES	TOTAL
8-HDR- 2024- PBIA	Construction Phase Services for Bid Alternate 1	\$1,020,806.00	\$1,390,466.20	\$99,507.55	\$2,510,779.75
GRAND TOTAL (AMENDMENT NO. 3)					\$2,510,779.75



June 26, 2024

Mr. Michael Giambrone
Palm Beach County Department of Airports
Director of Airports Planning
846 Palm Beach International Airport
West Palm Beach, FL 33406-1470

Dear Mr. Giambrone:

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:

NON-DBE SUBCONSULTANTS

- Chen Moore And Associates, Inc.

DBE SUBCONSULTANTS

- Cyriacks Environmental Consulting Services, Inc.
- Nova Consulting, Inc.
- Quantum Electrical Engineering, Inc.
- Tierra South Florida, Inc.

Sincerely,
HDR Engineering, Inc.

A handwritten signature in blue 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 3 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.

Description	Hourly Billing Rate
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.

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

CONSULTANT: CHEN MOORE AND ASSOCIATES, INC.

Description	Hourly Billing Rate
Principal	\$262.91
Principal Engineer	\$275.00
Senior Project Manager	\$189.89
Project Manager	\$175.28
Sr. Engineer	\$200.00
Construction Manager	\$146.07
Sr. Construction Specialist	\$140.00
Project Engineer	\$130.00
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: NOVA CONSULTING, INC.

Description	Hourly Billing Rate
Sr RPR	\$ 309.65
Sr Scheduler	\$ 203.11
Lead RPR	\$ 98.27
Construction Observer/Document Control Administrator	\$ 95.75
Jr. Inspector	\$ 82.37
Sr Construction Administrator	\$ 152.48
Jr. RPR	\$ 67.04
RPR	\$ 88.27

CONSULTANT: QUANTUM ELECTRICAL ENGINEERING, INC.

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

CONSULTANT: TIERRA SOUTH FLORIDA, INC.

DESCRIPTION	HOURLY BILLING RATES
Project Manager	\$225.00
Principal Engineering	\$275.00
Senior Engineer	\$250.00
Project Engineer	\$215.00
Staff Engineer	\$135.00
Asphalt Plant Inspector	\$95.00
Asphalt Field Inspector	\$95.00
Threshold Inspector	\$100.00
Senior Technician	\$90.00
Technician	\$80.00
CADD	\$100.00
Clerical	\$60.00

DESCRIPTION	UNIT	RATE
SOILS TESTS		
A. Compaction and Stabilization		
1. Moisture-Density Relationship		
a. Standard or Modified Proctor on Soil (AASHTO T-99 or T-180, 4" Mold)	each	\$115.00
b. Modified Proctor on Limerock (AASHTO T-180, 6" Mold)	each	\$125.00
B. Nuclear Density Test -up to five (5) tests per trip	trip	\$130.00
1. Additional Density tests (beyond 5 tests) each	each	\$30.00
C. Sand Cone Density Test- up to three (3) tests per trip	trip	\$200.00
1. Additional Sand Cone Tests (beyond 3 tests) each	each	\$70.00
D. Florida Bearing Value Test	each	\$65.00
E. Limerock Bearing Ratio Test	each	\$350.00
F. Atterberg Limit Test	each	\$85.00
1. Liquid Limit Tests (only)	each	\$60.00
2. Plastic Limit Tests (only)	each	\$45.00
G. Carbonate Content Test	each	\$150.00
H. Organic Content Test	each	\$50.00
I. D.O.T. Corrosivity	each	\$225.00

J. Soil Observation (on Site)	hour	\$80.00
K. Natural Sample Moisture Content	each	\$30.00
L. Unit Weight and Moisture Content (Undisturbed Sample)	each	\$60.00
M. Grain-Size Analysis – Full Gradation	test	\$85.00
N. Grain-Size Analysis – Single Sieve	test	\$45.00
O. Laboratory CBR + Sampling	test	\$600.00
P. Grain-Size with Hydrometer	test	\$145.00

CONCRETE & MASONRY MATERIALS

A. Concrete Compression Test (Min four (5) cylinders per Prepare cylinders & slump test on site & deliver to lab	set	\$150.00
B. Additional Concrete Cylinders	each	\$18.00
C. Concrete Compression test only (deliver to lab)	each	\$20.00
D. Slump Test	each	\$15.00
E. Air Content Test	each	\$25.00
F. Stand-by	hour	\$75.00
G. Grout Prism (Six (6) per set) Includes preparation of Prism on site	set	\$90.00
H. 2" x 2" Mortar Cubes (Six (6) per set) Includes preparation of Cubes on site	set	\$90.00
I. Additional Mortar Cubes	each	\$18.00
J. Masonry Units		
1. Compressive Strength	unit	\$80.00
2. Absorption	unit	\$50.00
K. Concrete Cores (Min 3)		
1. Secure, Trim & Test	core	\$115.00
2. Testing of Core (deliver to lab (incl. trim))	core	\$75.00
L. Swiss Hammer Testing	hour	\$85.00
M. Windsor Probe Test (Min 3 shots)	test	\$225.00
N. Additional Windsor Probe Tests	test	\$100.00

AGGREGATE TESTING

A. Grain Size determination		
1. Full grain size (8 sieves)	test	\$75.00
2. Wash Through (#200)	test	\$45.00
B. Sieve Analysis – Coarse Aggregate	test	\$45.00
C. Specific Gravity & Absorption of Fine or Coarse Aggregate	test	\$70.00

ASPHALT TESTING

A. Asphalt Plant Facility Inspection	day	\$1020.00
B. Asphalt Cores (Obtaining core samples)	each	\$225.00
C. Asphalt Extraction & Gradation	test	\$175.00
D. Asphalt Density & Thickness	test	\$30.00
E. Marshall Stability (incl. density, flow & stability of 3 specimens) (50 blows)	test	\$250.00
F. Coring Machine plus Generator Rental	trip	\$450.00

FIELD EXPLORATIONS

A. Power Auger Borings	feet	\$14.00
B. Hand Augers	hour	\$110.00
C. Standard Penetration Tests – Truck		
1. 0' – 50'	feet	\$16.00 (day)
0' – 50'	feet	\$20.00 (night)
2. 51' – 100'	feet	\$20.00 (day)
51' – 100'	feet	\$24.00 (night)
D. Grout Bore Holes		
1. 0' – 50'	feet	\$9.00 (day)
0' – 50'	feet	\$10.00 (night)
2. 51' – 100'	feet	\$10.00 (day)
51' – 100'	feet	\$11.00 (night)
E. Casing		
1. 0' – 50'	feet	\$7.00 (day)
0' – 50'	feet	\$9.00 (night)
2. 51' – 100'	feet	\$11.00 (day)
51' – 100'	feet	\$13.00 (night)
F. Visual Examination/Stratify	hour	\$115.00
G. Percolation Test	test	\$400.00
H. Muck Probing (4-hour min)	hour	\$150.00
I. Mobilization of drilling equipment to project (Min. Charge)	Lump Sum	\$500.00
J. Support Vehicle	day	\$250.00
K. Double Ring Infiltration Test	test	\$850.00
L. Field Permeability Test	test	\$500.00 (day)
M. Field Permeability Test	test	\$600.00 (night)
N. Field CBR (Kessler Method)	each	\$650.00

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”¹ as expressly indicated below. Compensation for the work tasks stated herein shall be in accordance with the following schedule of payment.

The following is a list of projects in the Work Program No.1: Amendment No. 3:

LEVEL I TASKS:

Task 8-HDR-2024-PBIA	<u>Construction Phase Services for Bid Alternate 1</u>
Duration:	449 Calendar Days
Compensation:	\$2,510,779.75

TOTAL = \$2,510,779.75

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 8-HDR-2024-PBIA Construction Phase Services for Bid Alternate 1
Duration: 449 Calendar Days

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 3.

Firm	Amendment 3 Totals	% of Amendment 3
CECOS	\$61,563.00	2%
Nova	\$815,301.85	32%
QEE	\$389,099.00	15%
TSF	\$155,500.00	6%
TOTALS	\$1,421,463.85	57%

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

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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
Tierra SF	\$43,272.37	\$10,770.80	\$0.00	\$0.00	\$0.00
Brown & Phillips	\$85,135.00	\$0.00	\$0.00	\$0.00	\$0.00
Quantum Electrical Engineering	\$0.00	\$0.00	\$0.00	\$7,481.18	\$23,446.00
CECOS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Nova	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
TOTALS	\$128,407.37	\$10,770.80	\$0.00	\$7,481.18	\$23,446.00

Firm	CSA 4-HDR-2023-PBIA Totals	Amendment 1 Totals	Amendment 2 Totals	CSA 7-HDR-2024-PBIA Totals
Tierra SF	\$0.00	\$96,555.00	\$0.00	\$20,500.00
Brown & Phillips	\$0.00	\$0.00	\$0.00	\$0.00
Quantum Electrical Engineering	\$7,212.00	\$332,620.00	\$12,650.00	\$28,940.00
CECOS	\$10,505.14	\$84,368.62	\$0.00	\$0.00
Nova	\$19,323.38	\$586,677.94	\$0.00	\$31,090.60
TOTALS	\$37,040.52	\$1,100,221.56	\$12,650.00	\$80,530.60

Firm	Amendment 3 Totals	Total Fees	% of Total Contract
Tierra SF	\$155,500.00	\$326,598.17	5%
Brown & Phillips	\$0.00	\$85,135.00	1%
Quantum Electrical Engineering	\$389,099.00	\$801,448.18	12%
CECOS	\$61,563.00	\$156,436.76	2%
Nova	\$815,301.85	\$1,452,393.77	22%
TOTALS	\$1,421,463.85	\$2,822,011.88	43%

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

EXHIBIT F
NONGOVERNMENTAL ENTITY HUMAN TRAFFICKING AFFIDAVIT
Section 787.06(13), Florida Statutes

THIS AFFIDAVIT MUST BE SIGNED AND NOTARIZED

I, the undersigned, am an officer or representative of HDR Engineering, Inc. (Consultant) and attest that Consultant does not use coercion for labor or services as defined in section 787.06, Florida Statutes.

Under penalty of perjury, I hereby declare and affirm that the above stated facts are true and correct.

Katie E. Duty
(signature of officer or representative)

Katie E. Duty, Vice President
(printed name and title of officer or representative)

State of Florida, County of Palm Beach

Sworn to and subscribed before me by means of ☒ physical presence ~~or ☐ online notarization~~
this, 24th day of June, by Katie E. Duty.

Personally known ☒ ~~OR produced identification ☐~~.

Type of identification produced _____

Michelle J. Pardo
NOTARY PUBLIC
My Commission Expires: September 22, 2024
State of Florida at large



MICHELLE J. PARDO :
Commission # HH 045144
Expires September 22, 2024
Bonded Thru Budget Notary Services

Michelle J. Pardo / HH 045144

(Notary Seal)