

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2022	2023	2024	2025	2026
Capital Expenditures	\$339,430	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues (Grants)	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	\$339,430	=====	=====	=====	=====
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

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

Budget Account No: Fund 4111 Department 121 Unit A363 Object 6504
 Reporting Category _____

JJ

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

Funds are available in the above referenced account.

C. Departmental Fiscal Review:

William W. Anderson

III. REVIEW COMMENTS

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

Lisa Marie Flax
 OFMB *CA* 7/24/22
JE 7-29-22

J. J. [Signature]
 Contract Dev. and Control 8/4/22

B. Legal Sufficiency:

Arnie Delmont 8/11/22
 Assistant County Attorney

C. Other Department Review:

 Department Director

REVISED 11/17

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

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 . . .
. . . Melanie E. Fowler – Vice President . . .
. . . Erki Suarez – 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:

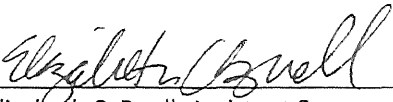
. . . Thomas A. Donnelly – Senior Vice President . . .
. . . Stephen J. Ferrell – Senior Vice President . . .
. . . Jennifer E. Hunt – Senior Vice President . . .
. . . Chance V. Lauderdale – Senior Vice President . . .
. . . Andrew E. Lauzier – Senior Vice President . . .
. . . Harold E. Lewis, Jr. – Senior Vice President . . .
. . . Kent L. McWaters – Senior Vice President . . .
. . . Jay C. Nagle – Senior Vice President . . .
. . . Guillermo J. Suero – Senior Vice President . . .
. . . Brenda Van Ravenswaay – Senior Vice President . . .
. . . Brian A. Blanchard – Vice President . . .
. . . Nelson E. Canjura – 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 ...
... 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 ...
... 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 January 17, 2022.

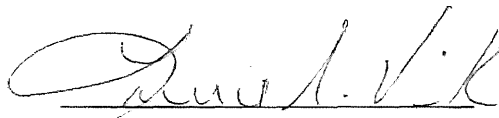
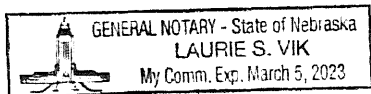



Elizabeth C. Buell, Assistant Secretary

STATE OF NEBRASKA
COUNTY OF DOUGLAS

On this 17th day of January, 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)



Laurie S. Vik, Notary Public

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 _____ day of _____, 2022, by and between **Palm Beach County**, a Political Subdivision of the State of Florida, by and through its Board of Commissioners, hereinafter referred to as the **COUNTY**, and **HDR Engineering, Inc.**, [] an individual, [] partnership, [X] a corporation authorized to do business in the State of Florida, hereinafter referred to as the **CONSULTANT**, whose Federal Tax I.D. number is 470680568.

WITNESSETH

WHEREAS, on August 20, 2019, the COUNTY entered into an Agreement (R-2019-1157) with the CONSULTANT for the CONSULTANT to provide Consulting / Professional Services for the Palm Beach County Department of Airports at Palm Beach County Airports (PBI, F45, LNA, & PHK); and

WHEREAS, on August 17, 2021, the County entered into an Amendment No. 1 (R-2021-1024) with the CONSULTANT to exercise the first one (1) year renewal option for the continuation of services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

WHEREAS, on June 7, 2022, the County entered into an Amendment No. 2 (R-2022-0574) with the CONSULTANT to exercise the second one (1) year renewal option for the continuation of services and to provide additional professional services for the Department of Airports, Palm Beach County, in accordance with Article 25 of the original Agreement; and

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

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

1. The parties hereby agree to amend the Contract to include the Scope of Services and Fees as outlined in Exhibit A. The total amount to be paid by the COUNTY to the CONSULTANT for professional services, including any out of pocket expenses, shall not exceed Three Hundred Thirty-Nine Thousand, Four Hundred Thirty Dollars and 44 Cents (\$339,430.44) for the services in Amendment No. 3 to the original contract.
2. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

HDR ENGINEERING, INC.
JULY 2022

AMENDMENT 3 TO R-2019-1157
CONTRACT FOR CONSULTING SERVICES

IN WITNESS WHEREOF, the parties have caused the Third Amendment to the Contract to be signed by the Mayor of the Board of County Commissioners and the Seal of said Board to be fixed hereto and attested by the Clerk of said board, and the CONSULTANT, HDR Engineering, Inc., has caused these presents to be signed in its corporate name by its duly authorized officer Melanie E. Fowler, Vice President, acting on behalf of said CONSULTANT, and the Seal of said CONSULTANT to be affixed hereto and attested by the Secretary of said CONSULTANT, the day and year first written above.

ATTEST:
JOSEPH ABRUZZO
CLERK OF THE CIRCUIT COURT
& COMPTROLLER

PALM BEACH COUNTY, FLORIDA
BOARD OF COUNTY COMMISSIONERS:

By: _____
Deputy Clerk

By: _____
Robert Weinroth, Mayor

WITNESS: *Cody Parham*
Digitally signed
by Parham, Cody
Tillman
Date: 2022.07.26
16:02:33-04'00'

CONSULTANT:
HDR Engineering, Inc.

SIGNATURE

Cody Parham

Name (type or print)

COMPANY NAME
Digitally signed by Fowler, Melanie Edwards
DN: E=Melanie.Fowler@hdrinc.com,
CN=Fowler, Melanie Edwards, OU=Users,
OU=Tampa-4839 West Kennedy Blvd Suite
220, OU=Florida, OU=United States,
OU=Q12es, DC=Intranet, DC=hdr,
Date: 2022.07.26 15:53:55-0400'
Fowler, Melanie Edwards

Signature

Melanie Fowler

Name (type of print)

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

Vice President

Title

By: _____
County Attorney

APPROVED AS TO TERMS
AND CONDITIONS

By: *Lana Bube*
Director of Airports

AMENDMENT NO. 3 INDEX

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 3

EXHIBIT A-1 – Task I-22-PBI-H-007: Cargo Access Improvement Design

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I: Summary of Fees

EXHIBIT B-II: Schedule of Payments

EXHIBIT C – PROPOSED SCHEDULES

EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE

CERTIFICATE OF INSURANCE



**Palm Beach County
Compliance Summary Report**

Vendor Number	Vendor Name	AM Best Rating	Insurance Carrier	Policy #	Eff. Date	Exp. Date	Coverage	Contract Number	Contract Name
DX00000767	HDR Engineering, Inc.	Modified	Compliant with Minor/Expiring Deficiencies					DOA 18-2B	Airport Civil Consulting Services
		Ap , XV	Liberty Mutual Fire Insurance Company	AS2641444950042	6/1/2022	6/1/2023	Auto Liability		
		Ap , XV	Ohio Casualty Insurance Company	EUO2357919363	6/1/2022	6/1/2023	Excess Liability		
		Ap , XV	Liberty Mutual Fire Insurance Company	TB2641444950032	6/1/2022	6/1/2023	General Liability		
		A , XV	Lloyds Underwriters (Canada Branch)	P001412200	6/1/2022	6/1/2023	Professional Liability		
		Ar , XV	Liberty Insurance Corporation	WA764D444950012	6/1/2022	6/1/2023	Workers Comp		

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

EXHIBIT A: AMENDMENT NO. 3

This Amendment No. 3 is in accordance with the Contract for Consulting/Professional Services (Agreement R-2019-1157) between Palm Beach County (COUNTY) and HDR Engineering, Inc. (CONSULTANT) dated August 20, 2019.

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 3

EXHIBIT A-1 – Task I-22-PBI-H-007: Cargo Access Improvement Design

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I: Summary of Fees

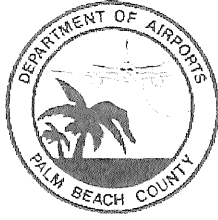
EXHIBIT B-II: Schedule of Payments

EXHIBIT C – PROPOSED SCHEDULES

EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE

EXHIBIT A-1 – Task I-22-PBI-H-007: Cargo Access Improvement Design

Palm Beach County Department of Airports



Airport Civil Consulting Services

Task Authorization No. I-22-PBI-H-007

Palm Beach International Airport (PBI)

Cargo Access Improvement Design



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

July 2022



EXHIBIT 'A'

SCOPE OF SERVICES

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

0. GENERAL

0.1 THE PROJECT

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

A Master Plan Update (MPU) was developed for PBI in 2018 with the purpose of evaluating the capability of the airport's facilities to accommodate anticipated changes in demand. Air cargo facilities, located in the central-eastern area of the PBI property, were analyzed as part of the MPU. A deficiency was identified in the existing roadway network serving the air cargo facilities. The roadway network provides sub-optimal access for truck ingress and egress to and from the air cargo campus. CONSULTANT conducted a feasibility study in April 2020 to determine the viability of implementing egress/ingress improvements to the roads providing access to the air cargo facility.

No new ingress alternatives providing a direct connection from I-95 into the air cargo facilities were identified. However, ingress improvements consisting of widening of the turnout and intersection return pavement area was recommended to accommodate large turning trucks as well as the provision of a new direct right turn access connection from Australian Avenue southbound onto Perimeter Road westbound.

Three new egress alternatives were developed by the feasibility study that consisted of Alternative 1 providing direct connection from the air cargo facility onto James L. Turnage Boulevard, Alternative 2 providing new loop on-ramp connection with extended merge lane, and Alternative 3 providing new loop on-ramp connection with reconfiguration of the lanes along James L. Turnage Boulevard. All alternatives recommend ingress improvements along Perimeter Road east of the air cargo facility.

Alternatives 2 and 3 recommend the reconstruction of the on-ramp from Perimeter Road on to James L. Turnage Boulevard. Allowing the access of the on-ramp for Perimeter Road westbound traffic eliminates the need for trucks to use the PBI car rental loop and eliminates U-turn movements at the Perimeter Road T-intersection located just west of the on-ramp. The extended merge length provided under Alternative 2 along James L. Turnage Boulevard improves the existing conditions which currently has a short merging distance; however, it still requires a vehicle using the new on-ramp to first merge into traffic and then cross over two lanes to be able to continue along Australian Avenue. The lane reconfiguration being proposed under Alternative 3 is anticipated to provide the least amount of traffic impact, eliminating the merging condition and only requiring one lane cross over to continue along Australian Avenue. However, traffic counts and destination travel analysis will need to be conducted to validate that proposed improvements do not disrupt the existing and future traffic operations of the facility.

DOA staff advised CONSULTANT that alternative 3 is preferred, with no improvements to the connection between Australian Ave and Perimeter Rd. The COUNTY wishes for HDR Engineering, Inc ('Consultant') to proceed with design and production of construction documents for the improvements.

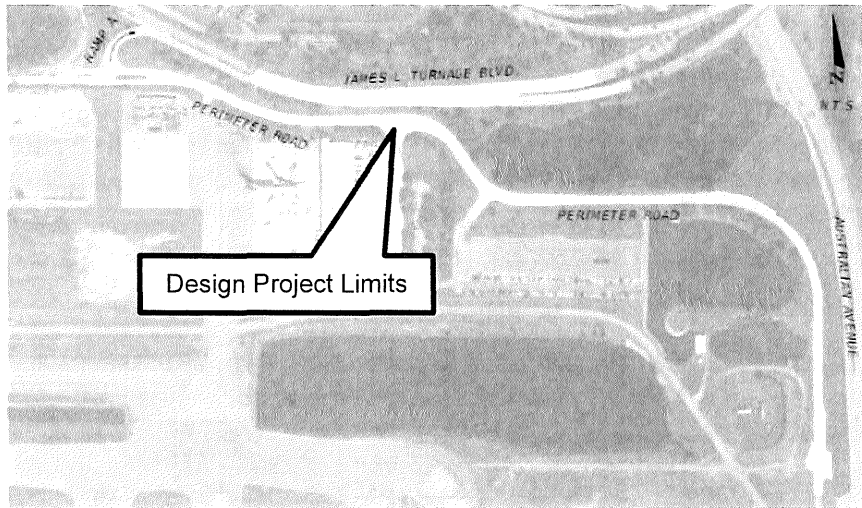


Figure 1 – Alternative 3 Preferred Access Improvement Layout

PROJECT DESCRIPTION AND GENERAL SCOPE

Consultant will perform programming, design, and bid phase services for the PBI Air Cargo Facility Access improvements task under its Professional Services Agreement (PSA) with the COUNTY. The desired task outcome will be the creation of design documents to support a COUNTY bid solicitation for construction of the project. Specific project components are:

- Traffic analysis and origin/destination study along James L. Turnage Boulevard comparing existing and proposed conditions.
- New Topographic Survey, Subsurface Utility Engineering, and Geotechnical Investigation throughout the project limits
- New loop on-ramp connection with reconfiguration of the lanes along James L. Turnage Boulevard
 - Reconstruction and reconfiguration of the on-ramp connection.
 - Perimeter Road Median Opening reconstruction
 - James L. Turnage Boulevard widening on the south side
 - James L. Turnage Milling & Resurfacing and new pavement markings to reconfigure lanes
 - New grading and stormwater management to accommodate the additional impervious area
 - Associated signage and lighting
- Perimeter Road improvements
 - Widening of existing roadway asphalt footprint to accommodate turning at the Cargo Facility turnout access.
 - Provision of 2' paved shoulder consistently along Perimeter Road
 - New pavement markings
 - Grading of existing swales to accommodate the additional impervious area



1. Phase 1: Planning and Programming

- 1.1. Kickoff meeting. Consultant shall schedule and lead a project kickoff meeting with the DOA and design team. The CONSULTANT will provide written minutes from the meeting.
 - 1.1.1. Confirm proposed design schedule and milestone review dates
 - 1.1.2. Confirm construction budget and milestone dates for grant compliance.
 - 1.1.3. Define communication and quality procedures for the Project Management Plan.
 - 1.1.4. Discuss design, construction, and stakeholder communication constraints.
- 1.2. Conduct Scope Meeting to discuss design criteria, typical section, drainage issues, survey, geotech, and utilities.
- 1.3. Records review
 - 1.3.1. CONSULTANT shall coordinate access to the DOA hard-copy records room and perform a search of information relevant to the project area. Relevant information shall be photocopied by the CONSULTANT. Original records will not be allowed to leave the records room.
- 1.4. Consultant shall prepare requirements for:
 - 1.4.1. Topographic Survey
 - 1.4.2. Subsurface Utility Engineering
 - 1.4.3. Geotechnical Investigation
 - 1.4.4. Tree Survey
- 1.5. Progress and Phase Review Meetings. CONSULTANT will conduct five (5) progress meetings and with DOA staff. Progress Meetings will address safety, coordination, operational impacts, and project schedule/budget.
- 1.6. Topographic Survey. Consultant shall perform a topographic survey and subsurface utility engineering of the work area through its subconsultant, Brown & Phillips. See attached Brown & Phillips, Inc. task order for detailed scope.
- 1.7. Geotechnical Investigation. Consultant shall perform a geotechnical investigation of the project area through its subconsultant, Tierra SF. See attached Tierra SF, Inc. task order for detailed scope.
- 1.8. Consultant shall gather and review South Florida Water Management District (SFWMD) Individual Statewide Environmental Resource Permit (ERP) conditions to identify water quality and attenuation requirements for the proposed additional impervious area and changes in site storage through its subconsultant, Chen Moore and Associates (CMA). See attached CMA task order for detailed scope.
- 1.9. Tree Survey. Consultant shall perform field assessment and a tree survey through its subconsultant, CMA. See attached CMA task order for detailed scope. Consultant shall determine the condition of the existing trees to evaluate if they can be relocated. Trees found diseased or with serious structural defects should not be moved. If the trees cannot be relocated, new trees should be planted elsewhere on site.
- 1.10. Site Observation. Upon receipt of the topographic survey, the CONSULTANT shall visit the project site to observe the condition of items in the work area and verify the completeness and accuracy of the survey.
- 1.11. Traffic analysis and origin/destination study. Consultant shall perform a traffic analysis of the project area through its subconsultant, Marlin. See attached Marlin Engineering, Inc. task order for detailed scope.
- 1.12. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 1.13. Design Project Quality Program. CONSULTANT shall develop and execute a quality program for the project, defined by a Quality Management Plan (QMP) specifying quality assurance and quality control procedures, schedules, reviewers, and resources.
- 1.14. Project Management. CONSULTANT will provide project management which will consist of the development of a Project Management Plan (PMP) specifying scope monitoring, budget maintenance, client coordination, subconsultant coordination, project status/schedule updates, invoicing per COUNTY requirements, payment of subconsultants, DBE participation monitoring, and general project documentation.



2. Phase 2A: 30% Construction Documents

Following Phase 1 Planning and Programming approval and upon receipt of the DOA Representative's written authorization to initiate Phase 2, CONSULTANT will prepare construction documents.

- 2.1. Preparation of plans as shown in Table 1.
- 2.2. Preparation of schematic design and construction schedule
- 2.3. Preparation of schematic opinion of probable construction cost (OPC)
- 2.4. Stormwater permitting
 - 2.4.1. Draft drainage report
 - 2.4.1.1. Summary of existing permit conditions, anticipated affected basins
 - 2.4.1.2. Estimated footprint of new stormwater management area
 - 2.4.2. Coordinate and attend 1 pre-application meeting with the SFWMD in anticipation of submittal of an application for modification to the airport conceptual ERP in a later phase of this task.
- 2.5. Design Team Coordination Meetings. CONSULTANT will conduct 3 design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 2.6. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 2.7. Submittal review meeting. CONSULTANT shall coordinate and attend one (1) meeting at the DOA to review the submittal. The CONSULTANT will provide written minutes from the meeting.

3. Phase 2B: 60% Construction Documents

- 3.1. Preparation of plans as shown in Table 1.
- 3.2. Update of design and construction schedules
- 3.3. Preparation of design development OPC
- 3.4. Prepare draft technical specifications
- 3.5. Prepare draft Engineer's Report
- 3.6. Airspace obstruction evaluation
 - 3.6.1. CONSULTANT shall submit notices to the FAA's OE/AAA portal for proposed construction required by 14 CRF Part 77.9.
- 3.7. Stormwater permitting
 - 3.7.1. Prepare calculations and models
 - 3.7.2. Update drainage report per the 60% design
 - 3.7.3. Prepare and submit applications for a modification to the conceptual ERP to SFWMD
- 3.8. Right-of-Way permitting
 - 3.8.1. Prepare and submit applications for roadway widening at the Perimeter Road and Australian Avenue intersection to Palm Beach County.
- 3.9. Building permitting (electrical)
 - 3.9.1. Prepare and submit applications for electrical work under lighting and signing improvements to Palm Beach County.
- 3.10. Design Team Coordination Meetings. CONSULTANT will conduct 3 design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 3.11. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 3.12. Submittal review meeting. CONSULTANT shall coordinate and attend one (1) meeting at the DOA to review the submittal. The CONSULTANT will provide written minutes from the meeting.

4. Phase 2C: 90% Construction Documents

- 4.1. Preparation of plans as shown in Table 1.
- 4.2. Update of design and construction schedules
- 4.3. Preparation of design development OPC
- 4.4. Prepare draft technical specifications



- 4.5. Consultant shall review Front End specifications provided by the DOA for alignment with the design documents and advise of potential conflicts between them.
- 4.6. Prepare draft Engineer's Report
- 4.7. Stormwater permitting
 - 4.7.1. Revise calculations, models, and drainage report per ERP application review comments received from SFWMD.
 - 4.7.2. Respond to ERP application review comments received from SFWMD
- 4.8. Design Team Coordination Meetings. CONSULTANT will conduct 3 design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 4.9. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 4.10. Submittal review meeting. CONSULTANT shall coordinate and attend one (1) meeting at the DOA to review the submittal. The CONSULTANT will provide written minutes from the meeting.

5. Phase 2D: 100% Construction Documents

- 5.1. Preparation of plans as shown in Table 1.
- 5.2. Prepare final construction schedule
- 5.3. Preparation of final OPC
- 5.4. Prepare final technical specifications
- 5.5. Consultant shall insert project-specific information into the Front End specifications provided by the DOA.
- 5.6. Prepare final Engineer's Report
- 5.7. Design Team Coordination Meetings. CONSULTANT will conduct 3 design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 5.8. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 5.9. Submittal review meeting. CONSULTANT shall coordinate and attend one (1) meeting at the DOA to review the submittal. The CONSULTANT will provide written minutes from the meeting.



Table 1 - Plan Submittal Schedule

TITLE	30%	60%	90%	100%
Key Sheet	Preliminary	Updated	Final	Final
Typical Section	Preliminary	Updated	Final	Final
Typical Section Details	Preliminary	Updated	Final	Final
General Notes/Pay Item Notes	Preliminary	Updated	Final	Final
Optional Materials Tabulation	Preliminary	Updated	Final	Final
Project Layout	Preliminary	Updated	Final	Final
Roadway Plan	Preliminary	Updated	Final	Final
Roadway Profile	Preliminary	Updated	Final	Final
Ramp Terminal Details	Preliminary	Updated	Final	Final
Intersection Layout/Detail	Preliminary	Updated	Final	Final
Drainage Structures	Preliminary	Updated	Final	Final
Cross Section Pattern Sheets	Preliminary	Updated	Final	Final
Cross Sections	Preliminary	Updated	Final	Final
Stormwater Pollution Prevention Plan	Preliminary	Updated	Final	Final
Temporary Traffic Control Plans	Preliminary	Updated	Final	Final
Tree Disposition Plans	Preliminary	Updated	Final	Final
Signing and Pavement Marking Key Sheet		Preliminary	Updated	Final
Signing and Pavement Marking General Notes/Pay Item Notes		Preliminary	Updated	Final
Signing and Pavement Marking Project Layout		Preliminary	Updated	Final
Signing and Pavement Marking Plans		Preliminary	Updated	Final
Miscellaneous Structures Plans		Preliminary	Updated	Final
Lighting Key Sheet		Preliminary	Updated	Final
Lighting General Notes/Pay Item Notes		Preliminary	Updated	Final
Lighting Plans		Preliminary	Updated	Final
Landscape/Irrigation Key Sheet		Preliminary	Updated	Final
Landscape/Irrigation General Notes/Pay Item Notes		Preliminary	Updated	Final
Landscape/Irrigation Plans		Preliminary	Updated	Final
Landscape/Irrigation Details		Preliminary	Updated	Final
Project Control	Preliminary	Updated	Final	Final
Roadway Soil Survey	Preliminary	Updated	Final	Final

6. Phase 3: Bidding and Award of Contract

- 6.1. CONSULTANT will assist the COUNTY in conducting one pre-bid conference for the prime contract to share pertinent bidding and technical information and requirements with prospective bidders. Consultant will attend one site visit with prospective bidders.
- 6.2. CONSULTANT will issue up to 3 addenda to interpret, clarify or expand the Bidding Documents.
- 6.3. CONSULTANT will prepare bid tabulation sheets and assist COUNTY in evaluating bids or proposals and in assembling and awarding contracts for construction, materials, equipment, and services.
- 6.4. CONSULTANT will issue a conformed set of plans and the project manual.

7. Project Design Schedule

Phase	Duration
1 – Planning and Programming	18 weeks
2A – 30% Construction Documents	12 weeks
2B – 60% Construction Documents	10 weeks
2C – 90% Construction Documents	8 weeks
2D – 100% Construction Documents	4 weeks
3 – Bid and Award	Concurrent with County Bidding Schedule



Table 2. Deliverables by Phase

Task	Deliverables
Phase 1 – Planning and Programming	<ul style="list-style-type: none">• Kickoff meeting minutes• Topographic survey (PDF, AutoCAD.dwg)• Geotechnical investigation report• Engineer’s site observation notes• Draft environmental and tree survey memo• All submittals in PDF format unless noted
Phase 2A – 30% Submittal	<ul style="list-style-type: none">• Plans (PDF, 1 hard copy 11x17 if requested)• Design and construction schedules• Opinion of probable construction cost• Drainage report• Pre-Application Meeting Minutes with SFWMD• Submittal review meeting minutes• All submittals in PDF format unless noted
Phase 2B – 60% Submittal	<ul style="list-style-type: none">• Plans (PDF, 1 hard copy 11x17 if requested)• Design and construction schedules• Opinion of probable construction cost• SFWMD ERP Application• PBC ROW Permit Application• PBC Building (Electrical) Permit Application• FAA OE/AAA obstruction evaluation determinations• Submittal review meeting minutes• All submittals in PDF format unless noted
Phase 2C – 90% Submittal	<ul style="list-style-type: none">• Plans (PDF, 1 hard copy 11x17 if requested)• Design and construction schedules• Opinion of probable construction cost• Technical specifications• Front end specification review comments• Engineer’s report• SFWMD ERP application comment responses• Submittal review meeting minutes• All submittals in PDF format unless noted
Phase 2D – 100% Submittal	<ul style="list-style-type: none">• Plans (1 hard copy 11x17 if requested, PDF, AutoCAD.dwg)• Construction schedule• Opinion of probable construction cost (Excel)• Project Manual (Front end and Technical specifications, 1 hard copy if requested, Word)• Front end specification information (Word)• Engineer’s report• SFWMD ERP Permit• Submittal review meeting minutes• All submittals in PDF format unless noted
Phase 3 – Bidding and Award of Contract	<ul style="list-style-type: none">• Pre-bid meeting slides (PowerPoint)• Bid tabulation (Excel)• Award recommendation (PDF)• Conformed plans and project manual (1 hard copy 11x17 if requested, PDF, Word, AutoCAD.dwg)



Team Roles

Firm	Description
HDR	<ul style="list-style-type: none"> • Project management • Roadway, Signing, and Pavement Marking design • Misc. Structural design
Chen Moore and Associates	<ul style="list-style-type: none"> • Stormwater design and permitting • Tree Survey/Disposition Plan and tree mitigation permitting • Landscape architecture • Irrigation design
Quantum Electrical Engineering*	<ul style="list-style-type: none"> • Electrical design serving lighting and signage
Brown & Phillips*	<ul style="list-style-type: none"> • Topographic survey and SUE
Tierra South Florida*	<ul style="list-style-type: none"> • Geotechnical investigation
Marlin Engineering*	<ul style="list-style-type: none"> • Traffic analysis and origin/destination study

*DBE Firm

ASSUMPTIONS

- Proposed improvements along James L. Turnage Boulevard and Perimeter Road are based on the preferred alternative 3.
- 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 pay application fees for the permits listed herein. Tree mitigation fees shall be paid directly by the County.
- The project will follow the design standards of the COUNTY Engineering and Public Works Department – Roadway Production Division. Where COUNTY standards are silent, FDOT standards shall be followed.
- The project will not follow the COUNTY Engineering and Public Works Department CADD Standards for Roadway Work. The project will use AutoCAD drafting software, per DOA guidance.
- Meetings with the COUNTY Engineering and Public Works Department will occur within the DOA review meetings

EXCLUSIONS

- Design of access improvements between Australian Avenue to Perimeter Road and improvements along Australian Avenue are not part of this work.
- Based on the Feasibility Study, an Environmental (Species) Survey is not anticipated to be required.
- Relocation of buried utilities, such as potable water, sewer, and natural gas, is not part of this work.
- Dewatering
- USACE Section 404 permitting



HDR Engineering, Inc.
PROJECT PROPOSAL - PBI CARGO ACCESS IMPROVEMENT DESIGN

Task Authorization No. I-22-PBI-H-007 - Cargo Access Improvement Design										
Contract Rate		\$232.50	\$188.46	\$173.96	\$238.65	\$136.27	\$129.24	\$114.89	\$101.48	
Scope / Task Title		Sr. PM	PM	Civil Engineer	Sr. Structural Engineer	Jr. Civil Engineer	Engineering Intern	Accountant	Sr. Admin Assistant	Total
Phase 1 - Planning and Programming (Lump Sum)										
1.1	Kickoff meeting		2	2			2			6
1.2	Scope Meeting		2	4			4			10
1.3	Records Review			4			4			8
1.4	Field services coordination		2	4			4			10
1.5	Progress Meetings		10	2			4			16
1.6 - 1.9	Field services		2	2			2			6
1.10	Site observation			4			4			8
1.11	Submit phase deliverables			4			4			8
1.12	Quality program		2	4						6
1.13	Project management		2	4				16		22
Phase 1 - Subtotal Hours		0	22	34	0	0	28	16	0	100
Phase 1 - Subtotal Direct Labor Cost		\$0.00	\$4,146.12	\$5,914.64	\$0.00	\$0.00	\$3,618.72	\$1,838.24	\$0.00	\$15,517.72
Phase 2A - 30% Construction Documents (Lump Sum)										
2.1	plans		2	60			200			262
2.2	schedule		2	4			4			10
2.3	OPC		2	4			4			10
2.4	Stormwater permitting									0
2.5	Design team coordination		2	4			2			8
2.6	Submit deliverables		2	4			2			8
2.7	Submittal review meeting		2	2			2			6
Phase 2A - Subtotal Hours		0	12	78	0	0	214	0	0	304
Phase 2A - Subtotal Direct Labor Cost		\$0.00	\$2,261.52	\$13,568.88	\$0.00	\$0.00	\$27,657.36	\$0.00	\$0.00	\$43,487.76
Phase 2B - 60% Construction Documents (Lump Sum)										
3.1	plans		2	40	20		80			142
3.2	schedule		2	4			2			8
3.3	OPC		2	4			4			10
3.4	specifications		2	4			4			10
3.5	engineer's report		2	4			4			10
3.6	Airspace Obstruction Evaluation		2	8			16			26
3.7	stormwater permitting									0
3.8	Right-of-Way permitting		2				12			14
3.9	Building permitting (electrical)		2				6			8
3.10	Design team coordination		2	2						4
3.11	Submit deliverables		2	2			2			6
3.12	Submittal review meeting		2	2			2			6
Phase 2B - Subtotal Hours		0	22	70	20	0	132	0	0	244
Phase 2B - Subtotal Direct Labor Cost		\$0.00	\$4,146.12	\$12,177.20	\$4,773.00	\$0.00	\$17,059.68	\$0.00	\$0.00	\$38,156.00
Phase 2C - 90% Construction Documents (Lump Sum)										
4.1	plans		2	20	8		40			70
4.2	schedule		2	4			2			8
4.3	OPC		2	4			4			10
4.4	specifications		2	4			4			10
4.5	review front ends		2	4			4			10
4.6	engineer's report		2	4			4			10
4.7	Stormwater permitting									0
4.8	Design team coordination		2	2						4
4.9	Submit deliverables		2	2			2			6
4.10	Submittal review meeting		2	2			2			6
Phase 2C - Subtotal Hours		0	18	46	8	0	62	0	0	134
Phase 2C - Subtotal Direct Labor Cost		\$0.00	\$3,392.28	\$8,002.16	\$1,909.20	\$0.00	\$8,012.88	\$0.00	\$0.00	\$21,316.52
Phase 2D - 100% Construction Documents (Lump Sum)										
5.1	plans		2	10	4		20			36
5.2	schedule		2	4			2			8
5.3	OPC		2	4			2			8
5.4 / 5.5	project manual		2	4			2			8
5.6	engineer's report		2	4			2			8
5.7	Design team coordination		2	2			2			6
5.8	Submit deliverables		2	2			2			6
5.9	Submittal review meeting		2	2			2			6
Phase 2D - Subtotal Hours		0	16	32	4	0	34	0	0	86
Phase 2D - Subtotal Direct Labor Cost		\$0.00	\$3,015.36	\$5,566.72	\$954.60	\$0.00	\$4,394.16	\$0.00	\$0.00	\$13,930.84



Subconsultant Contract
Quantum Electrical Engineering
Electrical Design

QUANTUM

Electrical Engineering, Inc.

April 22, 2022

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

Subject: Electrical Engineering Services Fee Proposal for the Palm Beach International Airport Cargo Access Road Improvements.

Dear Emilio:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide HDR Inc. (HDR) an electrical engineering services fee proposal for the proposed Palm Beach International Airport Access Road Improvements. Scope has been based upon the Draft Feasibility Study Exhibits.

The following design tasks are included in our scope:

- Includes design coordination meetings with the DOA, PBC Planning & Zoning and HDR Design Team.
- Includes on-site verifications and discovery of existing lighting systems and analysis of existing photometric calculations within the project limits.
- Includes on site verification of existing overhead roadway signage electrical services.
- Includes design of roadway lighting systems with point-by-point lighting calculations and electrical design for proposed roadway geometry that impacts the existing lighting system. New lighting will utilize FDOT Greenbook 2018 photometric values as design guidelines.
- Design electrical systems that meet current County, NEC, NFPA and DOA Standards.

Assumptions and Exclusions

- The existing lighting along Cargo Road, impacted by the new roadway alignment will be replaced in kind. The existing cobra style roadway light fixtures will not be upgraded to LED lighting.
- Existing highmast lighting will remain in place and not retrofitted to LED.
- Does not include site wide photometric calculations of existing lighting system.
- Does not include relocation of existing utilities (FPL, Comcast, ATT, DOA Fiber ductbanks and etc.)
- Does not include the replacement of existing lighting circuit conductors beyond the project limits or replacement of the existing service points.
- Does not include windload calculations for lighting or signage systems.
- HDR shall provide base plan sheets and base files in AUTOCAD 2021 or higher for all areas included by this project.
- QUANTUM shall provide all electrical specifications in Microsoft Word and PDF format per submittal.
- QUANTUM shall include construction cost estimates per submittal.

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

www.QuantumElectricalEngineering.com

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

- QUANTUM shall provide one electronic set for 30%, 60%, 90%, 100% Bid/Permit set of plans and specifications to HDR.
- HDR shall provide all printing of plans & specifications to the County for all reviews, permitting, bidding and construction phases.
- Includes Bid & Award Services.

Our proposed Lump Sum fee is:
(See Attachment for Breakdown)

\$11,451.86

Sincerely,



Amy Champagne-Baker, PE
President

Palm Beach County
2755 Vista Parkway, Suite I-9
West Palm Beach, FL 33411
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**PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - PBI CARGO ACCESS ROAD IMPROVEMENTS
 QUANTUM ELECTRICAL ENGINEERING, INC. SCOPE FEE SUMMARY
 FEE PROPOSAL ELECTRICAL DESIGN to HDR 4/22/22**

Rate	\$161.54	\$144.23	\$138.46	\$80.77	\$132.69	\$46.15		
	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total	TOTAL
PHASE OF WORK	Hours	Hours	Hours	Hours	Hours	Hours	Hours	TASK COST
30% Design Documents								
Kickoff Meeting annd Design Coordination Mtgs with DOA & HDR		4					4	\$576.92
Record Drawing Review and Field Investigation		4					4	\$576.92
Lighting and Electrical Design Drawings		2	4	16			22	\$2,134.62
Engineering Report/Assessment & Cost Estimate		2	4			4	10	\$1,026.90
QA/QC & Comment Incorporation		1		1			2	\$225.00
Subtotal	0	13	8	17	0	4	42	\$4,540.36
60% Design Documents, Bid/Permit								
Design Review Mtgs with DOA & HDR		2					2	\$288.46
Lighting and Electrical Design Drawings		4	4	8			16	\$1,776.92
Specifications & Cost Estimate		2				2	4	\$380.76
QA/QC & Comment Incorporation		1	1	2			4	\$444.23
Subtotal	0	9	5	10	0	2	26	\$2,890.37
90% Design Documents								
Design Review Mtgs with DOA & HDR		1					1	\$144.23
Lighting and Electrical Design Drawings		2	4	4			10	\$1,165.38
Specifications & Cost Estimate		1				2	3	\$236.53
QA/QC & Comment Incorporation		2		2			4	\$450.00
Subtotal	0	6	4	6	0	2	18	\$1,996.14
100% Design Documents, Bid Documents and Permit								
Design Review Mtgs with DOA & HDR		1					1	\$144.23
Lighting and Electrical Design Drawings		2	2	2			6	\$726.92
Specifications & Cost Estimate		1				1	2	\$190.38
Permit Responses		1		1			2	\$225.00
Subtotal	0	5	2	3	0	1	11	\$1,286.53
Bid & Award								
Pre-Bid Meeting		1						\$144.23
Review of Bid Results & Recommendation		1						\$144.23
RFI Responses		2		2				\$450.00
Subtotal	0	4	0	2	0	0	0	\$738.46
Grand Total Hours	0	15	6	11	0	3	29	\$11,451.86
Grand Total Labor Cost	\$0.00	\$2,163.45	\$830.76	\$888.47	\$0.00	\$138.45		



Subconsultant Contract

Chen Moore & Associates

Stormwater and Landscape Design and Permitting

**MASTER SUBCONSULTANT AGREEMENT
ATTACHMENT B**

TASK ORDER

This Task Order dated _____, 20__, pertains to an Agreement by and between Chen Moore and Associates, (“Subconsultant”), and HDR Engineering, Inc. (“HDR”), dated November 18, 2021, (“Agreement”). Subconsultant shall perform Services on the Project described below as provided herein and in the Agreement. This Task Order shall not be binding until it has been properly signed by both parties. Upon execution, this Task Order shall supplement the Agreement as it pertains to the Project described below.

TASK ORDER NUMBER: 2

PROJECT NAME: PBI Cargo Access Improvement Design

PART 1.0 PROJECT DESCRIPTION:

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

A Master Plan Update (MPU) was developed for PBI in 2018 with the purpose of evaluating the capability of the airport’s facilities to accommodate anticipated changes in demand. Air cargo facilities, located in the central-eastern area of the PBI property, were analyzed as part of the MPU. A deficiency was identified in the existing roadway network serving the air cargo facilities. The roadway network provides sub-optimal access for truck ingress and egress to and from the air cargo campus. HDR conducted a feasibility study in April 2020 to determine the viability of implementing egress/ingress improvements to the roads providing access to the air cargo facility.

DOA staff advised HDR that alternative 3 is preferred, with no improvements to the connection between Australian Ave and Perimeter Rd. The COUNTY wishes for HDR to proceed with design and production of construction documents for the improvements.

Consultant will perform programming, design, and bid phase services for the PBI Air Cargo Facility Access improvements task under its Professional Services Agreement (PSA) with the COUNTY. The desired task outcome will be the creation of design documents to support a COUNTY bid solicitation for construction of the project.

Specific project components are:

- Traffic analysis and origin/destination study along James L. Turnage Boulevard comparing existing and proposed conditions.
- New Topographic Survey, Subsurface Utility Engineering, and Geotechnical Investigation throughout the project limits
- New loop on-ramp connection with reconfiguration of the lanes along James L. Turnage Boulevard
 - Reconstruction and reconfiguration of the on-ramp connection.
 - Perimeter Road Median Opening reconstruction
 - James L. Turnage Boulevard widening on the south side
 - James L. Turnage Milling & Resurfacing and new pavement markings to reconfigure lanes
 - New grading and stormwater management to accommodate the additional impervious area
 - Associated tree mitigation and landscape planting plan
 - Associated signage and lighting
- Perimeter Road improvements
 - Widening of existing roadway asphalt footprint to accommodate turning at the Cargo Facility turnout access.
 - Provision of 2’ paved shoulder consistently along Perimeter Road
 - New pavement markings
 - Grading of existing swales to accommodate the additional impervious area

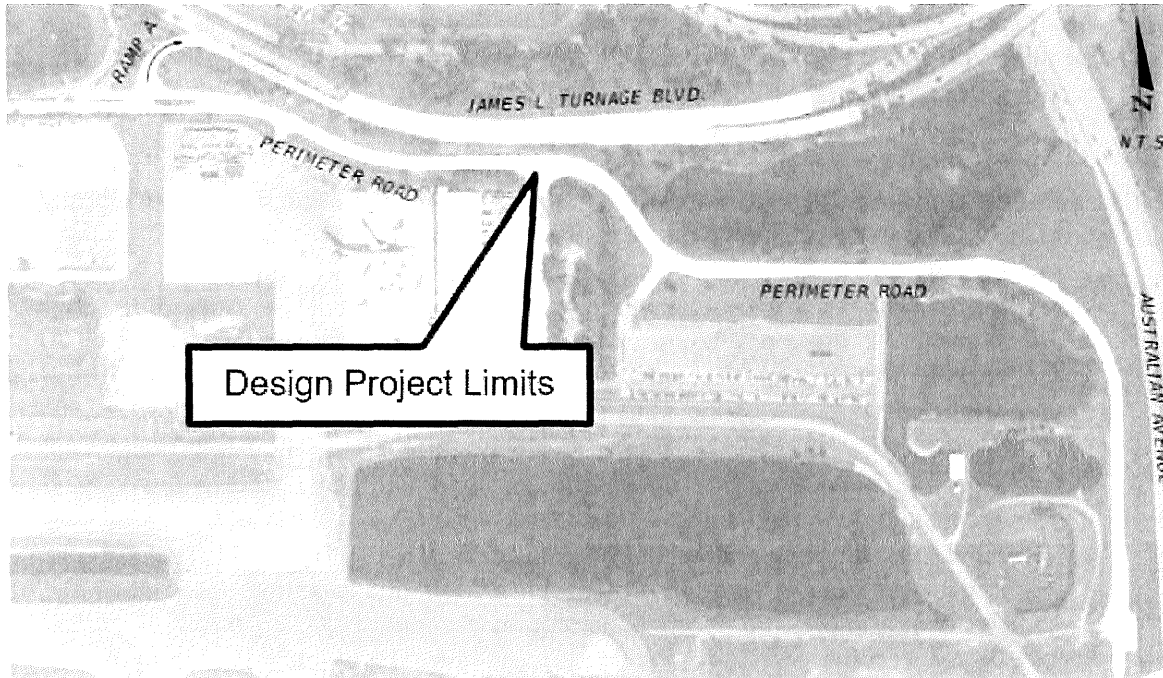


Figure 1 – General Scope Depiction

Subconsultant shall support HDR in developing contract documents by providing the following services:

- Design and permitting of stormwater conveyance and management associated with the proposed roadway improvements
- Ancillary landscape architecture and irrigation design
- Tree mitigation design and permitting
- Opinion of probable cost (OPC) and construction schedule development support for subconsultant's design components

PART 2.0 SCOPE OF BASIC SERVICES TO BE PERFORMED BY SUBCONSULTANT ON THE PROJECT:

1. Meetings:
 - a. Site visit verification of survey
 - b. Kickoff meeting via conference call
 - c. 4 design progress meetings
 - d. Virtual meetings with the DOA after each progress submittal
2. Construction Schedule – Subconsultant will review HDR's proposed construction schedule at each milestone and advise of any revisions needed due to the Subconsultant's scope of work.
3. Opinion of Probable Cost (OPC) – Subconsultant will provide quantities and unit costs of work items shown in Subconsultant's design documents.

4. Technical Specifications – Subconsultant will provide technical specifications relevant to its scope of work and coordinate with HDR to align any shared specifications, e.g. structural concrete for drainage structures.
5. Engineer’s Report – Subconsultant will provide relevant information to Subconsultant’s portion of the Engineer’s Report.
6. Design Plans – Subconsultant will provide the following items related to the scope of work:
 - a. Storm water system demolition and installation notes
 - b. Storm water drainage demolition and stormwater pollution prevention plans
 - c. Storm water drainage layout plans
 - d. Storm water drainage profiles
 - e. Storm water drainage details to support the proposed design, including oil/grease skimmers, pollution retardant baffles, and other BMPs where applicable.
 - f. Advise HDR of the stormwater drainage system constructability within the proposed construction phasing for each progress submittal. Subconsultant shall advise HDR of lead times and predecessors for submittal approval, materials shipping, and civil-related construction critical path items.
 - g. Tree disposition plan and related notes
 - h. Landscape planting plan and related notes
 - i. Landscape details to support tree protection and planting techniques for the Contractor to observe during construction
7. Surface Water Permits
 - a. Subconsultant will obtain, review, assemble, and complete permit application packages.
 - b. The subconsultant will prepare backup documentation required with the permit application packages, which may include drainage calculations and any map exhibits.
 - c. HDR will provide the relevant paving, grading, and drainage plans to be included within the permit application packages.
 - d. Subconsultant will be responsible for coordination with all regulatory agencies during the permitting process.
 - e. Subconsultant will send the completed permit applications to the DOA (via HDR) for review and signature along with a check request for all required permit application fees.
 - f. HDR will be responsible for providing all required permit application fees.
 - g. The regulatory agencies typically complete their review within 30 calendar days after the permit application submittal. Subconsultant will be available to attend reviews meetings with the regulatory agencies to discuss any review comments on the permit submittal.
 - h. Upon obtaining review comments from the regulatory agencies, subconsultant will revise permit application package as per any comments from these regulatory agencies and re-submit to the regulatory agencies for permit approval. All required permit approvals must be obtained from the regulatory agencies prior to submitting the final construction documents to the DOA.
8. Landscape architecture, irrigation, tree mitigation design and permitting
 - a. Subconsultant will obtain, review, assemble, and complete permit application packages.

- b. The subconsultant will prepare backup documentation required with the permit application packages, which may include a tree disposition table and any map exhibits.
 - c. HDR will provide the relevant paving, grading, and drainage plans to be included within the permit application packages.
 - d. Subconsultant will be responsible for coordination with all regulatory agencies (Palm Beach County Environmental Resources Management) during the permitting process.
 - e. Subconsultant will attend pre-application meetings with the necessary regulatory agencies to discuss proposed improvements under this project and confirm the permit requirements.
 - f. Subconsultant will send the completed permit applications to the DOA (via HDR) for review and signature along with a check request for all required permit application fees.
 - g. HDR will be responsible for providing all required permit application fees. Fees are anticipated to be \$1,000, potential mitigation costs will be subject to discussion with the regulatory agency.
 - h. The regulatory agencies typically complete their review within 30 calendar days after the permit application submittal. Subconsultant will be available to attend reviews meetings with the regulatory agencies to discuss any review comments on the permit submittal.
9. Upon obtaining review comments from the regulatory agencies, subconsultant will revise permit application package as per any comments from these regulatory agencies and re-submit to the regulatory agencies for permit approval. All required permit approvals must be obtained from the regulatory agencies prior to submitting the final construction documents to the DOA. Bid Phase:
- a. The Subconsultant shall attend the pre-bid meeting. The Subconsultant shall respond to questions from prospective bidders.
 - b. The Subconsultant shall provide supplemental information to prospective bidders as required during the bidding process through the issuance of addenda
 - c. The Subconsultant shall review all bids to determine the most responsible and responsive bidder and provide the DOA with a recommendation for award of the construction contract.
10. Subconsultant will utilize ProjectWise software to share common files and information. The purpose of ProjectWise is to reduce the opportunity for error when HDR incorporates Subconsultant's deliverables into the project documents. The following is an incomplete list of files that are expected to be shared between HDR and the Subconsultant.
- a. AutoCAD sheet set manager
 - b. Opinion of Probable Cost Excel file
 - c. Plan sheet quantity table Excel file
 - d. Technical specifications Word file
 - e. Engineer's Report Word file

Table 1 - Plan Submittal Schedule

TITLE	30%	60%	90%	100%
Drainage Plan	Preliminary	Updated	Final	Final
Drainage Details/Schedules	Preliminary	Updated	Final	Final
Landscape/Irrigation Key Sheet		Preliminary	Updated	Final
Landscape/Irrigation General Notes/Pay Item Notes		Preliminary	Updated	Final
Landscape/Irrigation Plans		Preliminary	Updated	Final
Landscape/Irrigation Details		Preliminary	Updated	Final

Subconsultant’s Project Design Schedule:

Phase	Duration
1 – Planning and Programming	18 weeks
2A – 30% Construction Documents	12 weeks
2B – 60% Construction Documents	10 weeks
2C – 90% Construction Documents	8 weeks
2D – 100% Construction Documents	4 weeks
3 – Bid and Award	Concurrent with County Bidding Schedule

The following deliverables will be provided:

- Plans
 - PDF unsigned 11x17 and 24x36 at schematic/60/90/100 percent
 - PDF digitally signed/sealed 11x17 and 24x36 at conformed documents.
 - CADD files in AutoCAD 2020 format at schematic/60/90/100/bid conformed percent complete
 - All plans are to be developed in accordance with HDR CADD Standards
- Specifications in Word format at 60/90/100/bid conformed percent
- Storm water bid line items and cost estimates in excel format at 30/60/90/100 percent
- Engineer’s Report sections in Word format at 30/60/90/100 percent
- Signing and sealing HDR supplied plans at HDR Office for bid phase, if requested.

PART 3.0 ADDITIONAL SERVICES, NOT PART OF BASIC SERVICES:

If authorized in writing by HDR as an amendment to this Task order.

- The CONSULTANT assumes no modeling or design will be required to modify detention facilities or control structures outside the limits of the proposed project limits.

PART 4.0 HDR’S RESPONSIBILITIES:

- Contract administration.
- HDR will provide any available stormwater record drawings to Subconsultant.
- HDR will provide any available Stormwater Master Plan documents to Subconsultant.
- HDR will provide any existing stormwater modeling files, if available.
- HDR will provide the geotechnical report
- HDR will provide signed and sealed plans for the Project, which will be required for the permit application packages.

- HDR will assist in obtaining any signatures and fees required with the permit application packages from the DOA.
- HDR will provide plan sheet border template, sheet naming, and numbering policy

PART 5.0 PERIODS OF SERVICE:

Subconsultant will provide services concurrent with the schedule stated in HDR's task order with the DOA.

PART 6.0 SUBCONSULTANT'S COMPENSATION FOR SERVICES:

- Lump Sum: HDR shall pay Subconsultant for all authorized and properly performed services at the rates attached hereto with a lump sum amount of \$89,774.445. Subconsultant acknowledges that the amount is not a guarantee of minimum work or payment. Subconsultant shall notify HDR when it has reached 90% of the amount.
- Reimbursable Expenses: Included in the lump sum amount

PART 7.0 EXECUTED TASK ORDERS BETWEEN OWNER AND HDR ATTACHED HERETO AS REFERENCE.

Agreement provided in Exhibit B

PART 8.0 OTHER:

IN WITNESS WHEREOF, the parties have executed this Task Order as of the day and year first written above.

"Subconsultant"

HDR ENGINEERING, INC.
"HDR"

BY: _____

BY: _____

NAME: _____

NAME: _____

TITLE: _____

TITLE: _____

ADDRESS: _____

ADDRESS: _____

Exhibit A
Work Breakdown Fee Schedule

EXHIBIT A - FEE PROPOSAL
Palm Beach County Department of Airports - HDR
PBI Airport Access Road Improvements

Chen Moore and Associates Project # P22.065-007

Hourly Rate	Principal \$282.12	Senior Project Manager \$197.48	Project Manager Engineering \$183.38	Senior Engineer \$155.17	Project Engineer \$126.96	CMA			Clerical \$65.00	Total	
						Staff Engineer \$98.75	Project Manager Landscape Arch \$183.38	Senior Designer Landscape Arch \$126.96			Designer Landscape Arch \$98.75
TASK 1 Project Kickoff, Data Collection, Review and Progress Meetings											
1.1 Kickoff Meeting		1		2				2	2		\$1,128.50
1.2 Site Visit		4		4				4			\$2,651.96
1.3 Review As-Builts and Available Records		1		8	16			1	2	2	\$4,105.00
1.4 Team Coordination and Progress & Deliverable Review Meetings (6)		8		16				8	4	2	\$6,234.94
Task 1 Total	\$0	\$2,765	\$0	\$4,655	\$2,031	\$0	\$2,751	\$1,524	\$395	\$0	\$14,120.40
TASK 2 30% Conceptual Drainage Plan and Tree Mitigation Memo											
2.3 Plan Sheet - Stormwater Layout Plan (4 sheets)		2		4	8	16					\$3,911.32
2.8 Tree Mitigation Technical Memorandum		2					2	16			\$2,793.08
2.10 Preliminary OPC and Review of Projected Construction Schedule		1		4	2		1	4			\$1,763.30
Task 2 Total	\$0	\$987	\$0	\$1,241	\$1,270	\$1,580	\$550	\$2,539	\$0	\$0	\$8,167.70
TASK 3 60% Construction Documents											
3.1 Plan Sheet - Stormwater Notes and Legend				2	4	4					\$1,213.18
3.2 Plan Sheet - Stormwater Demolition & SWPPP Plan (4 sheets)		1		4	6	16					\$3,159.92
3.3 Plan Sheet - Stormwater Layout Plan (4 sheets)		1		4	6	16					\$3,159.92
3.4 Plan Sheet - Stormwater Profiles (1 sheet)		1		4	6	8					\$2,369.92
3.5 Detail Sheet - Stormwater Details and Typical Sections (1 sheet)		1		2	4	8					\$1,805.86
3.6 Plan Sheet - Tree Disposition Plan (4 sheets)							1	4		16	\$2,271.22
3.7 Plan Sheet - Planting Plan (4 sheets)							1	16		32	\$5,374.74
3.8 Detail Sheet - Tree Protection and Planting Details (2 sheets)								2		8	\$1,227.30
3.9 60% Engineer's Report (Drainage Section Writeup Only)		1		8	4						\$1,946.68
3.10 60% OPC and Review of Projected Construction Schedule		1		4	2		1	4		4	\$2,158.30
3.11 Draft Technical Specifications		2		12			1	4			\$2,948.22
Task 3 Total	\$0	\$1,580	\$0	\$6,207	\$4,063	\$5,135	\$917	\$3,809	\$5,925	\$0	\$27,635.06
TASK 4 90% Construction Documents											
4.1 Plan Sheet - Stormwater Notes and Legend				1	2	4					\$804.09
4.2 Plan Sheet - Stormwater Demolition & SWPPP Plan (4 sheets)		1		2	4	8					\$1,805.86
4.3 Plan Sheet - Stormwater Layout Plan (4 sheets)		1		2	4	8					\$1,805.86
4.4 Plan Sheet - Stormwater Profiles (1 sheet)				2	4	6					\$1,410.68
4.5 Detail Sheet - Stormwater Details and Typical Sections (1 sheet)				1	2	4					\$804.09
4.6 Plan Sheet - Tree Disposition Plan (4 sheets)							1	4		12	\$1,876.22
4.7 Plan Sheet - Planting Plan (4 sheets)							1	8		24	\$3,569.06
4.8 Detail Sheet - Tree Protection and Planting Details (2 sheets)							1	2		6	\$1,029.80
4.9 90% Engineer's Report (Drainage Section Writeup Only)				4	2						\$874.80
4.10 90% OPC and Review of Projected Construction Schedule		1		1	2		1	2		2	\$1,241.37
4.11 Revised Technical Specifications		1		8			1	2			\$1,876.14
Task 4 Total	\$0	\$790	\$0	\$3,259	\$2,539	\$2,953	\$917	\$2,285	\$4,345	\$0	\$17,097.37
TASK 5 Permitting											
5.1 Prepare ERP Application		4		12	4						\$3,159.80
5.2 Respond to RAI (Up to 2)		2		4							\$1,015.64
5.3 Prepare Tree Mitigation Permit							2	8		8	\$2,172.44
5.4 Respond to RAI (Up to 1)								2		4	\$648.92
Task 5 Total	\$0	\$1,185	\$0	\$2,483	\$508	\$0	\$367	\$1,270	\$1,185	\$0	\$6,996.80
TASK 6 100% Construction Documents											
6.1 Plan Sheet - Stormwater Notes and Legend				1	1	2					\$479.63
6.2 Plan Sheet - Stormwater Demolition & SWPPP Plan (4 sheets)		1		2	2	8					\$1,551.74
6.3 Plan Sheet - Stormwater Layout Plan (4 sheets)		1		2	2	8					\$1,551.74
6.4 Plan Sheet - Stormwater Profiles (1 sheet)				1	2	3					\$705.34
6.5 Detail Sheet - Stormwater Details and Typical Sections (1 sheet)					1	6					\$719.46
6.6 Plan Sheet - Tree Disposition Plan (4 sheets)							1	2		4	\$832.30
6.7 Plan Sheet - Planting Plan (4 sheets)							1	4		12	\$1,876.22
6.8 Detail Sheet - Tree Protection and Planting Details (2 sheets)								1		2	\$324.46
6.9 100% Engineer's Report (Drainage Section Writeup Only)		1		2							\$507.82
6.10 100% OPC and Review of Projected Construction Schedule		1		1			1	2		2	\$987.45
6.11 Final Technical Specifications				4							\$1,001.54
Task 6 Total	\$0	\$987	\$0	\$2,017	\$1,016	\$2,666	\$734	\$1,143	\$1,975	\$0	\$10,537.70
TASK 7 Bid and Award											
7.1 Attend Pre-Bid Meeting		1		1				2			\$606.57
7.2 Respond to Bidder Questions / Addenda				2	4			8			\$1,833.86
7.3 Review Bids for Stormwater and Landscape and Provide Award Recommendation		1		1				8			\$1,388.33
7.4 Prepare Conformed Documents		1		2	4	4					\$1,410.66
Task 7 Total	\$0	\$592	\$0	\$931	\$1,016	\$395	\$0	\$2,285	\$0	\$0	\$5,219.42
TOTAL FEE	\$0.00	\$8,886.60	\$0.00	\$20,792.78	\$12,442.08	\$12,738.75	\$6,234.92	\$14,854.32	\$13,825.00	\$0.00	\$89,774.45

Exhibit B
HDR Prime Agreement with Client



Subconsultant Contract

Brown & Phillips

Topographic Survey and SUE

April 28, 2022

Mr. Emilio Corrales, P.E.
HDR
8333 NW 53rd Street, Suite 302
Doral, FL 33166

**Re: Palm Beach International Airport, James L. Turnage and Perimeter Road
Access Road Improvements - Roadway Design Survey**

Dear Emilio:

Thank you for the opportunity to provide you with the following services for the subject site. This proposal is based on documentation and information provided by your office. The scope of services is as follows:

SCOPE OF SERVICES

We will perform a specific purpose/topographic survey under this project and the survey work will be performed in accordance with the current Standards of Practice. All survey work done will result in a signed and sealed survey drawing in accordance with all applicable requirements, codes, rules and Statutes governing Surveying and Mapping.

I. HORIZONTAL PROJECT NETWORK CONTROL

A traverse will be run through the route and the survey will be oriented to Palm Beach County horizontal control (NAD 83/11 Adjustment). We will obtain the sectional and geodetic control information from the Palm Beach County Survey Department.

The limits of the survey are along James L. Turnage Boulevard from west of car rental center up to Australian Avenue and FDOT Bridges that lead to I-95. Limits along Perimeter Road from the stop sign at the intersection that leads to Economy Parking all the way east up to Australian Avenue intersection. Also included is the area between James L. Turnage Boulevard and Perimeter Road as well as the area between Australian Avenue and Perimeter Road (approximate limits outlined in orange on Attachment 'B').

II. VERTICAL PROJECT NETWORK CONTROL

A level run will be performed along the route using the existing Palm Beach County benchmarks (NAVD 1988). Benchmarks will be set along the route, not exceeding 600 feet apart.

III. TOPOGRAPHY

A topographic survey will be performed along the route. This survey will tie in all visible features such as, but not limited to, signs, light poles, guardrails, utilities, walks, edge of pavement, curbing, drainage structures, striping, etc. These locations will show all features within the corridor (approximate limits outlined in orange on Attachment 'B').

IV. CROSS SECTIONS and TIN CREATION (DTM)

Cross sections will be done along the route at 50-foot intervals. These cross sections will cover the roadway and will extend to 25 feet beyond the edge of pavement. In addition, we will prepare a TIN file and all the corresponding break lines for the design of the roadway.

V. AS-BUILTS

We will attempt to get as-built information on all the pipes leading out of any storm structures found. We will show invert elevations, pipe sizes and materials for all pipes located including outfall pipes.

VI. UNDERGROUND UTILITY LOCATIONS

We will coordinate and designate the underground utilities that service the site and add them to the survey. No test holes are proposed.

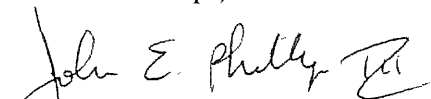
VII. TREE LOCATIONS

We will locate the native trees (4" and larger measured at breast height) and shrubs/hedges within the project limits (not tag). These will be shown on the CADD file with types and caliper sizes. Not a tree survey.

VIII. CLOSURE

A drawing will be produced which will show all the features located. We propose to provide HDR with hard copies, a digitally signed PDF file, and an AutoCAD file in the version requested. We will perform the scope of services for a **lump sum fee of \$42,271.55** (see Attachment 'A' for an hourly breakdown). Any additional work will be done on an hourly basis as approved by you. Please do not hesitate to call me with any questions you might have regarding this proposal. We look forward to working with you on this project.

Brown & Phillips, Inc.


John E. Phillips III, P.L.S.
Principal

Attachment

JEP/mb

This Proposal accepted this ____ day of _____, 2022

By: _____
HDR

Print Name: _____

Title: _____



BROWN & PHILLIPS, Inc.
 PROFESSIONAL SURVEYING SERVICES

ATTACHMENT 'A'

Palm Beach International Airport Access Road Improvements

Type of Survey: Roadway Design
 Size: 4,400'±
 Date: April 28, 2022

TASK	SURVEY CREW (3 PERSON)	CADD TECHNICIAN	SURVEY TECHNICIAN	PROFESSIONAL LAND SURVEYOR	COMMENTS
Meetings and Coordination				3	
Horizontal Project Network Control	8		2	1	Establish control
Vertical Project Network Control	12		2		Set benchmarks along corridor
Section Ties	4		1		Tie in PBCo. Airport control
Topography and Cross Sections	68		12	2	Locate all above ground features 50' cross sections, TIN file
As-builts	8		2		As-built storm structures
Underground Utilities and/or soil borings	8		2	1	Locate soil borings and marked utilities
Tree Locations	12		2		Locate planted trees in R/W (4" or greater)
Specific Purpose Survey		40	8	6	Prepare drawing of Specific Purpose Survey
Total Hours:	120	40	31	13	
Rate/Hour	\$172.80	\$84.54	\$84.54	\$137.17	
Subtotal:	\$20,736.00	\$3,381.60	\$2,620.74	\$1,783.21	
Total Labor Cost:					\$28,521.55

<u>Other Direct Costs:</u>	<u>quantity</u>	<u>unit</u>	<u>cost/unit</u>	<u>total</u>	
SUE - Utility Locations	1	LS	\$13,750.00	\$13,750.00	
Total Other Direct Costs:					\$13,750.00
TOTAL PRICE					\$42,271.55

Attachment 'B'





Subconsultant Contract
Tierra SF
Geotechnical Investigation



April 22, 2022, Rev 1 5/13/22

HDR
8333 NW 53rd Street, Suite 302
Doral, FL 33166
Phone D (305)728-7428 Cel I(954)258-4845
Attn: Mr. Emilio Corrales, PE
email: emilio.corrales@hdrinc.com

**Re: Proposal for Airport Testing Services
PBCDOA PBIA Airport Access Road Improvements
West Palm Beach, Florida
TSF Proposal No. 2204-252**

Dear Emilio:

TIERRA SOUTH FLORIDA, Inc. (TSFGeo) is pleased to submit this proposal for providing a preliminary subsurface exploration at the site of the subject project. Project is located at the airport, parallel to Runway 10R-28L. This proposal includes a summary of our understanding of the project, an outline of our proposed scope of work, an estimate of the total job cost, and our anticipated schedule for completion of the work.

PROJECT INFORMATION

Improvements to Airport Access Roadways.

PROPOSED SCOPE OF WORK

To perform the study of the proposed construction, we propose to explore the subsurface conditions as noted in Table 1 below. Some adjustments in the boring depths may be necessary depending upon the subsurface conditions encountered.

Table 1 – Proposed Field Testing	
Location	Proposed Services
Asphalt Cores	Six (6) Each (Each with a 2 ft SPT)
Borings	Three (3) Each to a depth of 10 Feet
Permeability Tests	Three (3) Each

Within the borings, penetration resistance testing will be performed in general accordance with the requirements of ASTM designations D 1586. Borings will be approximately located in the field by our drilling personnel by measuring distances with a tape from known reference points. Elevations at boring locations can be interpreted from a topographic plan if furnished by others. GPS coordinates will be obtained for the testing locations. Asphalt core data will be summarized

and include photos of field locations and cores in the laboratory. Soil profiles will be provided, and a roadway report will be provided. Drainage parameters related to tests will be provided.

Prior to drilling at the project site, TSF will obtain a permit from the County, if required, and 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 utilities. Our proposal assumes that private utility lines will be located in the field by others prior to mobilization of the drill rig. TSF will recommend a utility line locating service upon request.**

Upon completion of the field exploration, visual classifications will be performed and some laboratory testing, if necessary, will be performed on select samples.

A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report will be issued that contains the exploration data, a discussion of the site and subsurface conditions, preliminary geotechnical recommendations for foundation, and a discussion of some construction considerations.

UNIT FEE ESTIMATE

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, it is estimated that the total fee will be approximately as noted below.

Proposal for Airport Testing Services
PBCDOA PBIA Airport Access Road Improvements
West Palm Beach, Florida
TSF Proposal No. 2204-252, Rev 1
Page 3

Tierra South Florida Inc. Fee Schedule
Palm Beach County Airfield Design and Engineering Services
TSF Proposal No. 2204-252.Palm Beach International Airport Access Road Improvements (HDR)

CATEGORY	HOURLY RATE	UNIT	QUANTITY	FEES
<u>LABOR RATES</u>				
PRINCIPAL ENGINEER	\$175.00	HOUR	6	\$1,050.00
SENIOR ENGINEER	\$150.00	HOUR	12	\$1,800.00
PROJECT ENGINEER	\$125.00	HOUR	30	\$3,750.00
SENIOR TECHNICIAN	\$75.00	HOUR	16	\$1,200.00
TECHNICIAN	\$65.00	HOUR	24	\$1,560.00
CADD	\$85.00	HOUR	10	\$850.00
<u>SOIL TESTS</u>				
F ATTERBERG LIMITS TEST	\$75.00	EACH	2	\$150.00
H ORGANIC CONTENT TEST	\$35.00	EACH	2	\$70.00
M GRAIN-SIZE ANALYSIS - FULL GRADATION	\$65.00	EACH	6	\$390.00
<u>CONCRETE & MASONRY MATERIALS</u>				
<u>AGGREGATE TESTING</u>				
<u>ASPHALT TESTING</u>				
B ASPHALT CORES (OBTAINING CORE SAMPLES)	\$225.00	EACH	6	\$1,350.00
F CORING MACHINE PLUS GENERATOR RENTAL	\$400.00	TRIP	1	\$400.00
<u>FIELD EXPLORATION</u>				
C 1 A STANDARD PENETRATION TESTS - TRUCK 0' TO 50'	\$13.00	FEET (DAY)	32	\$416.00
D 1 A GROUT - TRUCK 0' TO 50'	\$6.00	FEET (DAY)	20	\$120.00
E 1 A CASING - TRUCK 0' TO 50'	\$7.00	FEET (DAY)	16	\$112.00
I MOBILIZATION OF DRILLING EQUIPMENT TO PROJECT (MIN. CHARGE)	\$350.00	LUMP SUM	3	\$1,050.00
J SUPPORT VEHICLE	\$150.00	DAY	3	\$450.00
K DOUBLE RING INFILTRATION TEST	\$500.00	TEST	3	\$1,500.00
			TOTAL	\$16,218.00

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 a function 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.

Borings are completed with truck-mounted equipment, and the boring locations will likely be in grassed areas. TSF will endeavor to minimize impacts to grass or landscape from the truck tires. However, our fees does not include a fee to restore the grass or landscape.

SCHEDULE AND AUTHORIZATION


TSF will proceed with the work after receipt of a signed copy of this proposal. With our present drilling schedule, we can commence work within two weeks of project approval (weather


permitting) and fieldwork will take approximately 3 days to complete. The written report can be submitted about two weeks after completion of the field exploration, depending on the extent of the laboratory-testing program. Verbal preliminary recommendations can be made to appropriate parties prior to submittal of the written report.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.


Harmon C. Bennett, P.E.
Principal Engineer


Ramakumar Vedula, P.E.
Principal Engineer

Attachment:

- 1.) TSF General Conditions
- 2.) Fee Schedule (Complete)
- 3.) Boring Location Plan
- 4.) Preliminary Testing Location List

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

Proposal for Airport Testing Services
PBCDOA PBIA Airport Access Road Improvements
West Palm Beach, Florida
TSF Proposal No. 2204-252, Rev 1
Page 7

Tierra South Florida Inc. Fee Schedule
Palm Beach County Airfield Design and Engineering Services
TSF Proposal No. 2204-252.Palm Beach International Airport Access Road Improvements (HDR)

CATEGORY	HOURLY RATE	UNIT	QUANTITY	FEES
LABOR RATES				
PROJECT MANAGER	\$175.00	HOUR		
PRINCIPAL ENGINEER	\$175.00	HOUR	6	\$1,050.00
SENIOR ENGINEER	\$150.00	HOUR	12	\$1,800.00
PROJECT ENGINEER	\$125.00	HOUR	30	\$3,750.00
SENIOR TECHNICIAN	\$75.00	HOUR	16	\$1,200.00
ASPHALT PLANT INSPECTOR	\$75.00	HOUR		
ASPHALT FIELD INSPECTOR	\$75.00	HOUR		
THRESHOLD INSPECTOR	\$75.00	HOUR		
SENIOR TECHNICIAN	\$65.00	HOUR		
TECHNICIAN	\$65.00	HOUR	24	\$1,560.00
CADD	\$85.00	HOUR	10	\$850.00
SOIL TESTS				
A 1 a. MOISTURE-DENSITY RELATIONSHIP (STANDARD)	\$105.00	EACH		
A 1 b. MOISTURE-DENSITY RELATIONSHIP (MODIFIED)	\$125.00	EACH		
B NUCLEAR DENSITY TEST (UP TO 5 TESTS PER TRIP)	\$125.00	TRIP		
B1 ADDITIONAL DENSITY TESTS - NUCLEAR	\$25.00	EACH		
C SAND CONE DENSITY TESTS (UP TO 3 TESTS PER TRIP)	\$150.00	TRIP		
C1 ADDITIONAL DENSITY TESTS - SAND CONE	\$50.00	EACH		
D FLORIDA BEARING VALUE	\$45.00	EACH		
E LIMEROCK BEARING RATION (LBR) TEST	\$300.00	EACH		
F ATTERBERG LIMITS TEST	\$75.00	EACH	2	\$150.00
F1 ATTERBERG LIMITS - LIQUID LIMIT TEST (ONLY)	\$52.00	EACH		
F2 ATTERBERG LIMITS - PLASTIC LIMIT TEST (ONLY)	\$33.50	EACH		
G CARBONATE CONTENT TEST	\$185.00	EACH		
H ORGANIC CONTENT TEST	\$35.00	EACH	2	\$70.00
I DOT CORROSIVITY (SERIES)	\$185.00	EACH		
J SOIL OBSERVATION (ON-SITE)	\$55.00	HOUR		
K NATURAL MOISTURE CONTENT TESTS	\$10.00	EACH		
L UNIT WEIGHT AND MOISTURE CONTENT (UNDISTURBED SAMPLE)	\$50.00	EACH		
M GRAIN-SIZE ANALYSIS - FULL GRADATION	\$65.00	EACH	6	\$390.00
N GRAIN-SIZE ANALYSIS -SINGLE SIEVE	\$35.00	EACH		
O LABORATORY CBR + SAMPLING	\$500.00	EACH		
P - GRAIN-SIZE ANALYSIS WITH HYDROMETER	\$115.00	EACH		
CONCRETE & MASONRY MATERIALS				
A CONCRETE COMPRESSION TEST (MIN FOUR (4) CYL) - NOTE 1	\$140.00	SET		
B ADDITIONAL CONCRETE CYLINDERS	\$18.00	EACH		
C CONCRETE COMPRESSION TEST ONLY (DELIVER TO LAB)	\$18.00	EACH		
D SLUMP TEST	\$10.00	EACH		
E AIR CONTENT TEST	\$15.00	EACH		
F STAND-BY TIME	\$55.00	HOUR		
G GROUT PRISM (SIX (6) PER SET) - NOTE 2	\$80.00	SET		
H 2"X2" MORTAR BUES (SIX (6) PER SET - NOTE 3	\$80.00	SET		
I ADDITIONAL MORTAR CUBES	\$18.00	EACH		
J 1 MASONRY UNITS - COMPRESSIVE STRENGTH	\$80.00	UNIT		
J 2 MASONRY UNITS - ABSORPTION	\$50.00	UNIT		
K 1 CONCRETE CORES (MIN 3) SECURE, TRIM & TEST	\$80.00	CORE		
K 2 CONCRETE CORES (MIN 3) TESTING OF CORE - NOTE 4	\$50.00	CORE		
L SWISS HAMMER TESTING	\$55.00	HOUR		
M WINDSOR PROBE TEST (MIN. 3 SHOTS)	\$150.00	TEST		
N ADDITIONAL WINDSOR PROBE TESTS	\$100.00	TEST		
AGGREGATE TESTING				
A1 GRAIN-SIZE DETERMINATION (FULL GRAIN SIZE - 8 SIEVES)	\$75.00	TEST		
A2 GRAIN-SIZE DETERMINATION (WASH THROUGH - #200)	\$45.00	TEST		
B SIEVE ANALYSIS - COARSE AGGREGATE	\$45.00	TEST		
C SPECIFY GRAVITY & ABSORPTION OF FINE OR COARSE AGGREGATE	\$70.00	TEST		
ASPHALT TESTING				
A ASPHALT PLANT FACILITY INSPECTION	\$900.00	DAY		
B ASPHALT CORES (OBTAINING CORE SAMPLES)	\$225.00	EACH	6	\$1,350.00
C ASPHALT EXTRACTION & GRADATION	\$150.00	TEST		
D ASPHALT DENSITY & THICKNESS	\$25.00	TEST		
E MARSHALL STABILITY - NOTE 5	\$150.00	TEST		
F CORING MACHINE PLUS GENERATOR RENTAL	\$400.00	TRIP	1	\$400.00
FIELD EXPLORATION				
A POWER AUGER BORINGS	\$10.00	FEET		
B HAND AUGERS	\$110.00	HOUR		
C 1 A STANDARD PENETRATION TESTS - TRUCK 0' TO 50'	\$13.00	FEET (DAY)	32	\$416.00
C 1 B STANDARD PENETRATION TESTS - TRUCK 0' TO 50'	\$18.00	FEET (NIGHT)		
C 2 A STANDARD PENETRATION TESTS - TRUCK 50' TO 100'	\$15.00	FEET (DAY)		
C 2 B STANDARD PENETRATION TESTS - TRUCK 50' TO 100'	\$21.00	FEET (NIGHT)		
D 1 A GROUT - TRUCK 0' TO 50'	\$6.00	FEET (DAY)	20	\$120.00
D 1 B GROUT - TRUCK 0' TO 50'	\$7.00	FEET (NIGHT)		
D 2 A GROUT - TRUCK 50' TO 100'	\$7.00	FEET (DAY)		
D 2 B GROUT - TRUCK 50' TO 100'	\$8.50	FEET (NIGHT)		
E 1 A CASING - TRUCK 0' TO 50'	\$7.00	FEET (DAY)	16	\$112.00
E 1 B CASING - TRUCK 0' TO 50'	\$8.50	FEET (NIGHT)		
E 2 A CASING - TRUCK 50' TO 100'	\$9.00	FEET (DAY)		
E 2 B CASING - TRUCK 50' TO 100'	\$10.50	FEET (NIGHT)		
F VISUAL EXAMINATION/STRATIFY	\$100.00	HOUR		
G PERCOLATION TEST	\$300.00	TEST		
H MUCK PROBING (4 HOUR MIN.)	\$110.00	HOUR		
I MOBILIZATION OF DRILLING EQUIPMENT TO PROJECT (MIN. CHARGE)	\$350.00	LUMP SUM	3	\$1,050.00
J SUPPORT VEHICLE	\$150.00	DAY	3	\$450.00
K DOUBLE RING INFILTRATION TEST	\$500.00	TEST	3	\$1,500.00
L FIELD PERMEABILITY	\$300.00	TEST (DAY)		
M FIELD PERMEABILITY	\$400.00	TEST (NIGHT)		
N FIELD CBR (KESSLER METHOD)	\$300.00	EACH		
			TOTAL	\$16,218.00





Name	Latitude	Longitude
PC-01	26.686486	-80.079021
PC-02	26.686497	-80.076659
PC-03	26.686374	-80.076352
PC-04	26.686226	-80.078750
PC-05	26.685284	-80.074753
PC-06	26.682927	-80.074080
B-1	26.686993	-80.081384
B-2	26.686632	-80.079624
B-3	26.686379	-80.078111
BHP-2	26.686309	-80.079048
BHP-1	26.686917	-80.081050
BHP-3	26.683172	-80.073965



Subconsultant Contract

Marlin Engineering

Traffic Analysis



TO: Emilio Corrales, PE
HDR, Inc.
8333 NW 53rd Street, Suite 302
Doral, FL 33166

FROM: Myra E. Patino, PE, PMP
MARLIN Engineering, Inc.
3363 W. Commercial Blvd., Suite 115
Fort Lauderdale, FL 33309

SUBJECT: PBI Cargo Access Improvement Design Task Order

DATE: May 13, 2022

Dear Mr. Corrales,

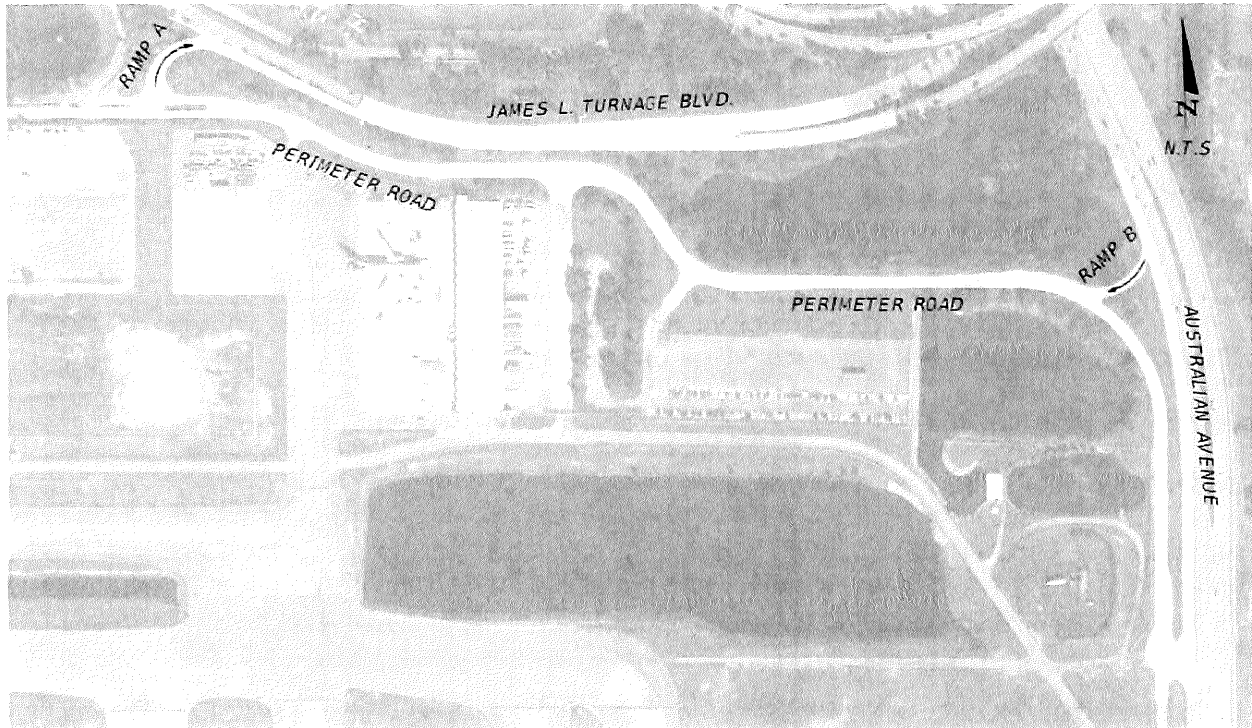
As requested by HDR, Inc., Marlin Engineering, Inc. (MEI) has prepared the following proposal to perform a traffic analysis for the alternative as presented in the Palm Beach International Airport (PBI) Air Cargo Facility Access Feasibility Study Report (draft dated April 2020) for the next design phase of the project.

I. DESCRIPTION OF SERVICES

A Master Plan was previously developed for the Palm Beach International Airport (PBI) with the purpose of evaluating the capability of the airport's facilities to accommodate anticipated changes in demand. Air Cargo facilities were analyzed as part of the PBI Master Plan, and a deficiency was identified in the ingress/egress of vehicles to the Air Cargo building. The Feasibility Study report determined the viability of implementing egress/ingress improvements to the Air Cargo building facility access roads with the intent of improving the cargo facility vehicle operation. Several alternatives were evaluated to eliminate the use of the PBI car rental loop left side on-ramp to James L. Turnage Boulevard. This operation currently depicts safety concerns with the short merge distance, non-traditional left side on-ramp, proximity to the right side on-ramp, and need for vehicles to cross over one lane to access the I-95 on-ramps.

The proposed "Alternative 3" (as depicted in the Feasibility Study and shown below) recommended the reconstruction of the on-ramp from Perimeter Road on to James L. Turnage Boulevard. Allowing the access of the on-ramp for Perimeter Road westbound traffic eliminates the need for trucks to use the PBI car rental loop and also conducting U-turn movements at the Perimeter Road T-intersection located just west of the on-ramp. The lane reconfiguration being proposed under Alternative 3 is not anticipated to impact existing traffic; however, traffic counts and destination travel analysis will need to be verified during the design phase to ensure that it does not disrupt the existing and future traffic operations of the facility.





Alternative 3

The following tasks will be conducted in order to prepare the necessary document for submittal by HDR, Inc. to the respective reviewing agencies for this project.

Task A – Project Methodolgy

Pertinent documents were reiewed in order to properly develop the traffic mehtodolgy for the project. A review the draft Feasibility Study along with preliminary plans of Alternative 3 provided by HDR were made and the following tasks were defined for the study.

Task B – Define Study Area

A review of the study area will be made in order to determine the best locations to deploy equipment to conduct the data collection effort for the project. A map will be prepared to clearly identify the proposed locations noted in the next task. Per the scope coordination with HDR, it was noted that Perimeter Road will not be included in the analysis.

Task C – Data Collection

In order to ascertain the overall volume distribution in the study area, the following data collection is proposed for the analysis.

- **7-day Average Daily Traffic (ADT) counts** at 2 locations
- **Turning Movement Counts (TMCs)** at 5 locations
- **Bluetooth Origin-Destination (O-D) Data** at 4 Locations

The 7-day ADT counts will be analyzed to determine the peak periods of traffic along the study roadways. An O-D study will provide the data necessary to determine how many vehicles coming from Perimeter Road and currently using the left on-ramp to James Turnage Blvd. will be using the new Ramp A. The TMCs will be used to re-route traffic with the alternative improvements.

The locations of the proposed data collection are shown below.



In addition, the following traffic data will be collected for the project:

- Peak season conversion factor to seasonally adjust the raw existing volumes
- FDOT historical AADT volumes for use in the trends analysis

Task D – Peak Hour Volume Development

The raw turning movement volumes will be balanced and adjusted for any seasonal operations.

The opening and design years are 2024 and 2044.



Task E – Level of Service Analysis

A traffic analysis will be conducted during the weekend and weekday peak hours for the following scenarios:

- Existing Conditions
- Future Conditions without Project for Opening/Design years
- Future Conditions with Alternative 3 for Opening/Design years

The levels of service for the freeway segment and ramps within the study area will be determined for the following using Highway Capacity Software as appropriate:

- **Merge/Diverge Operations:** Merging and diverging freeway segments occur primarily near or at interchanges in the presence of an on- and off-ramp. A merging analysis is considered when two or more streams of traffic combine to form a single stream of traffic, while a diverging analysis is considered when a single stream of traffic divides into two or more streams of traffic. This type of analysis examines the functionality of a merge or diverge area in terms of specific MOEs including speed, flow, or density.
- **Weaving Segment Operations:** Weaving sections are formed when traffic streams traveling in the same direction are forced to change lanes and cross paths over a significant length of freeway. This type of analysis examines the functionality of the weaving segment in terms of specific MOEs including speed, flow, or density.

TASK F – Documentation

MEI shall produce a traffic report documenting the above tasks including appendices or figures (as appropriate). MEI will submit a draft report to HDR for submittal to the appropriate reviewing agencies. Review comments will be addressed by MEI with any modifications to be made to the final report for submittal and acceptance.

Project Administration and Coordination

MEI shall attend up to one (2) remote meetings to discuss the findings of the report with HDR and/or reviewing agencies as necessary. Additional coordination/meetings will be negotiated separately if required.

MEI will submit monthly invoices on work completed to date and provide status updates on the schedule in a timely manner.





II. SCHEDULE

The data collection schedule is proposed for the week of May 15 – May 21, with a deployment date of Monday, May 16th at the earliest.

The draft traffic report in pdf format will be submitted to HDR within 8 weeks from Notice to Proceed (NTP). A response to comments document will be submitted to HDR one week after receipt of said comments. Once accepted by the reviewing agency, any revisions stemming from the review comments will be incorporated into the final traffic report, which will be submitted 2 weeks afterwards in pdf format. If the requested changes require a significant amount of re-analysis, a revised project schedule will be submitted at that time.

III. BUDGET

For the services performed, HDR will pay MEI the lump sum fee of **\$29,664.54**. Any additional meetings, coordination, data collection or analysis not included in this scope, but that may be requested by the reviewing agency, will be negotiated separately as needed. This Work Order is a Lump Sum Work Order, and shall be billed monthly as a percentage of completion.

IV. ACCEPTANCE

The return of an executed copy of this proposal would constitute our Notice to Proceed.

Sincerely,

MARLIN ENGINEERING, INC.

Myra Patino, PE, PMP
Traffic Engineering Manager

ACCEPTED BY: _____ **DATE:** _____

ENTITY: _____

TITLE: _____



Task	Activity	Project Manager	Senior Traffic Engineer	Project Engineer	Senior Planner	Traffic Engineer	Engineering Technician	CADD Technician	Clerical	TOTAL
	<i>Rates</i>	\$ 223.57	\$ 199.24	\$ 195.30	\$171.37	\$ 126.51	\$ 93.00	\$ 89.40	\$ 80.60	
A	Project Methodology									
	Review traffic documents	1.0	1.0				1.0			3.0
	Research area		2.0				1.0			3.0
	Prepare methodology scope	2.0								2.0
	Sub-total Hours	3.0	3.0	-	-	-	2.0	-	-	8.0
	Sub-total Salary Cost	\$ 670.71	\$ 597.72	\$ -	\$ -	\$ -	\$ 186.00	\$ -	\$ -	\$ 1,454.43
B	Define Study Area									
	Define Study Limits	1.0	1.0				1.0			3.0
	Prepare study area maps for report and data collection tasks						1.0	1.0		2.0
	Sub-total Hours	1.0	1.0	-	-	-	2.0	1.0	-	5.0
	Sub-total Salary Cost	\$ 223.57	\$ 199.24	\$ -	\$ -	\$ -	\$ 186.00	\$ 89.40	\$ -	\$ 698.21
C	Data Collection									
	Determine peak hour periods for weekday/weekend		1.0				2.0			3.0
	Analyze O-D data	1.0	1.0					16.0		18.0
	Obtain seasonal factors						1.0			1.0
	Collect historical AADT						1.0			1.0
	Sub-total Hours	1.0	2.0	-	-	-	4.0	16.0	-	23.0
	Sub-total Salary Cost	\$ 223.57	\$ 398.48	\$ -	\$ -	\$ -	\$ 372.00	\$ 1,430.40	\$ -	\$ 2,424.45
D	Peak Hour Volume Development									
	Balance/Adjust raw volumes (weekday & weekend peak hour)	1.0	2.0			2.0	2.0			7.0
	Conduct Growth rate analysis		1.0				1.0			2.0
	Forecast Traffic for Opening & Design years without Project (Weekday & weekend pk hr)	1.0	1.0			1.0	1.0			4.0
	Forecast Traffic for Opening & Design years with Project (Weekday & weekend pk hr)	1.0	2.0			2.0	2.0			7.0
	Sub-total Hours	3.0	6.0	-	-	5.0	6.0	-	-	20.0
	Sub-total Salary Cost	\$ 670.71	\$ 1,195.44	\$ -	\$ -	\$ 632.55	\$ 558.00	\$ -	\$ -	\$ 3,056.70
E	Level of Service Analysis									
	Existing LOS Analysis (freeway & ramps, weekday & weekend pk)	1.0	2.0			4.0	2.0			9.0
	2024 No-Build LOS Analysis (freeway & ramps, weekday & weekend pk)	1.0	1.0			2.0	1.0			5.0
	2044 No-Build LOS Analysis (freeway & ramps, weekday & weekend pk)	1.0	1.0			2.0	1.0			5.0
	2024 Build LOS Analysis (freeway & ramps, weekday & weekend pk)	1.0	2.0			4.0	1.0			8.0
	2044 Build LOS Analysis (freeway & ramps, weekday & weekend pk)	1.0	1.0			2.0	1.0			5.0
	Sub-total Hours	5.0	7.0	-	-	14.0	6.0	-	-	32.0
	Sub-total Salary Cost	\$ 1,117.85	\$ 1,394.68	\$ -	\$ -	\$ 1,771.14	\$ 558.00	\$ -	\$ -	\$ 4,841.67
F	Documentation									
	Prepare Draft Report	1.0	8.0			10.0		1.0		20.0
	Respond to Review Comments	1.0	2.0			4.0				7.0
	Final Report	1.0	4.0			5.0		1.0	1.0	12.0
	QA/QC	1.0								1.0
	Sub-total Hours	4.0	14.0	-	-	19.0	-	2.0	1.0	40.0
	Sub-total Salary Cost	\$ 894.28	\$ 2,789.36	\$ -	\$ -	\$ 2,403.69	\$ -	\$ 178.80	\$ 80.60	\$ 6,346.73
	Project Management									
	Project administration	2.0							1.0	3.0
	Meetings (2)	2.0	0.0							2.0
	Sub-total Hours	4.0	-	-	-	-	-	-	1.0	5.0
	Sub-total Salary Cost	\$ 894.28	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 80.60	\$ 974.88
	Marlin Engineering Total Hours	21.0	33.0	-	-	38.0	20.0	19.0	2.0	133.0
	Marlin Engineering Salary Cost	\$ 4,694.97	\$ 6,574.92	\$ -	\$ -	\$ 4,807.38	\$ 1,860.00	\$ 1,698.60	\$ 161.20	\$ 19,797.07
Palm Beach County	7-day Traffic Count (ATR Volume Counts)						2	\$ 994.51	Per location	\$ 1,989.02
	4-hour TMC (Video Detection Count)						5	\$ 925.77	Per location	\$ 4,628.85
	7-day Origin-Destination Data						4	\$ 812.40	Per location	\$ 3,249.60
	Data Collection Subtotal									\$ 9,867.47
	TOTAL									\$ 29,664.54



END OF EXHIBIT A

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

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 \$3339,430.44.

LEVEL I TASKS:

TASK LEVEL / NO.	DESCRIPTION	LUMP SUM	REIMBURSABLE EXPENSES	TOTAL
I-22-PBI-H-007	Cargo Access Improvements Design	\$332,820.44	\$6,610.00	\$339,430.44

GRAND TOTAL (AMENDMENT NO. 3)				\$339,430.44
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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 I-22-PBI-H-007	<u>Cargo Access Improvement Design</u>
Duration:	260 Working Days (~365 Calendar Days)
Compensation:	\$339,430.44

TOTAL = \$339,430.44

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

EXHIBIT C: PROPOSED SCHEDULES

Task I-22-PBI-H-007 **Cargo Access Improvement Design**
Duration: 260 Working Days (~365 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
Tierra SF	\$16,218.00	5%
Quantum Electrical Engineering	\$11,451.86	3%
Brown & Phillips	\$42,271.55	12%
Marlin Engineering, Inc.	\$29,664.54	9%
TOTALS	\$99,605.95	29%

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 (R2019-1157) Totals	Amendment 1 (R-2021-1024) Totals	Amendment 2 (R-2022-0574) Totals	Amendment 3 Totals	Total Fees	% of Total Contract
Tierra SF	\$51,397.33	\$0.00	\$32,455.00	\$16,218.00	\$100,070.33	6%
Brown & Phillips	\$87,727.23	\$0.00	\$67,295.83	\$42,271.55	\$197,294.61	12%
Quantum Electrical Engineering	\$0.00	\$0.00	\$42,322.64	\$11,451.86	\$53,774.50	3%
Marlin Engineering	\$0.00	\$0.00	\$0.00	\$29,664.54	\$29,664.54	2%
TOTALS	\$139,124.56	\$0.00	\$142,073.47	\$99,605.95	\$380,803.98	23%

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

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

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

Name of Respondent: HDR Engineering, Inc.

Change Order/Task/Amendment No. (if applicable): Amendment 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 1-9 West Palm Beach, FL 33411 (561) 210-9224	Electrical engineering design services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	3 %	_____ %
Tierra South Florida Inc. 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 561-687-8536	Geotechnical investigation services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	5 (asian) %
Brown & Phillips, Inc. 1860 Old Okeechobee Road, Suite 509 West Palm Beach, FL 33409 (561) 615-3988	Topographic survey services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	12 %	_____ %	_____ %	_____ %
Marlin Engineering, Inc. 3363 W. Commercial Blvd, Suite 115 Fort Lauderdale, FL 33309 (954) 870-5070	Traffic engineering services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	9 %	_____ %	_____ %

Total Percentage of DBE Participation: 29 %

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: Melanie E. Fowler
Signature

Date: July 20, 2022

Melanie E. Fowler, Vice President, HDR Engineering, Inc.

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: 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: 3 %

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

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

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

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

Quantum Electrical Engineering, Inc.

Printed Name of DBE Subcontractor

By: Amy L. Champagne-Baker Amy L. Champagne-Baker
2022 05 18 13 05 20 0430

Signature

Date: 5/18/2022

Attachment No. 2

Airport General Consulting Professional Services - 2018					
RFP #: DOA-18-2B - Civil					
Date: November 29, 2017					
Marketplace: BC, PBC, MDC					
DBE Project Goal: 20% - adjusted for past participation					
NAICS Description	NAICS Code	Estimated Percentage of	Available DBE	Total Available	Weighted Percentage
Engineering Services	541330	70.00%	149	1286	8.11%
Architectural Services	541310	0.00%	40	667	0.00%
Construction Management	236220	15.00%	239	815	4.40%
Testing Services	541380	2.50%	12	92	0.33%
Land Surveying & Mapping	541370	2.50%	24	144	0.42%
Planning Services	541320	10.00%	15	166	0.90%
Other Consulting Services	541690	0.00%	64	571	0.00%
Total		100.00%			14.16%

General Consulting Services Contracts	DBE Participation (to date)
R2006-2418	21%
R2009-1643	31%
R2011-1333	29%
R2014-0031	13%
Median Participation	25%
Adjustment for Past Participation	20%
DBE Project Goal	Percentage
	20%