



January 19, 2024

Palm Beach County Department of Airports
ATTN: Mr. Michael Giambone, Director of Airports Planning
846 Palm Beach International Airport
West Palm Beach, Florida 33406-1470

RE: Airport Civil Consulting Services for the Palm Beach County Department of Airports
Amendment No. 4 to Contract

Dear Mr. Giambone:

HDR is pleased to submit for your review and approval the Amendment No. 4 for the Airport Civil Consulting Services Contract for the Palm Beach County Department of Airports. The proposed total professional fee is not to exceed \$194,486.47. The following support documents are included in this submittal:

- Certificate of Insurance
- General Exhibits, including:
 - Exhibit A – Amendment No. 4
 - Exhibit B - Detailed Fees, Expenses and Payments
 - Exhibit C - Proposed Schedules
 - Exhibit D - Disadvantaged Business Enterprise Compliance

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

Sincerely,
HDR Engineering, Inc.

Cody Parham, P.E.
Project Manager

cc:
Cindy Portnoy – PBCDOA
Tim Fish – HDR
Will Bowdoin - HDR

hdrinc.com

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

CERTIFICATE

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

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

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

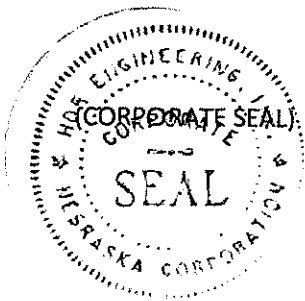
2. **"RESOLVED**, that the following are elected officers of the Corporation until their successors are elected and qualified:

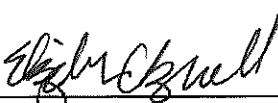
- . . . Stephen J. Ferrell – Senior Vice President . . .
- . . . Jennifer E. Hunt – Senior Vice President . . .
- . . . Chance V. Lauderdale – Senior Vice President . . .
- . . . Andrew E. Lauzier – Senior Vice President . . .
- . . . Harold E. Lewis, Jr. – Senior Vice President . . .
- . . . Kent L.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

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

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

DATED August 19, 2022.



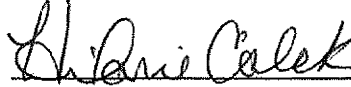


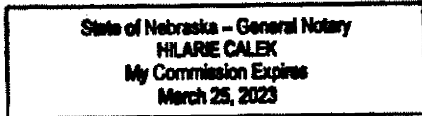
Elizabeth C. Buell, Assistant Secretary

STATE OF NEBRASKA
COUNTY OF DOUGLAS

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

(NOTARY SEAL)


Hilarie Calek, Notary Public



**AMENDMENT NO. 4 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. 4 to the Contract is made as of the 5th day of March, 2024, by and between **Palm Beach County**, a Political Subdivision of the State of Florida, by and through its Board of Commissioners, hereinafter referred to as the **COUNTY**, and **HDR Engineering, Inc.**, [] an individual, [] partnership, [X] a corporation authorized to do business in the State of Florida, hereinafter referred to as the **CONSULTANT**, whose Federal Tax I.D. number is 470680568.

WITNESSETH

WHEREAS, on 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, on August 23, 2022, the County entered into an Amendment No. 3 (R-2022-0887) with the CONSULTANT 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 One Hundred Ninety-Four Thousand, Four Hundred Eighty-Six Dollars and 47 Cents (\$194,486.47) for the services in Amendment No. 4 to the original contract.
2. Except as specifically amended herein, all other terms and conditions of the Contract shall remain in full force and effect.

HDR ENGINEERING, INC.
MARCH 2024

AMENDMENT 4 TO R-2019-1157
CONTRACT FOR CONSULTING SERVICES

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

ATTEST:
JOSEPH ABRUZZO
CLERK OF THE CIRCUIT COURT
& COMPTROLLER

PALM BEACH COUNTY, FLORIDA
BOARD OF COUNTY COMMISSIONERS:

By: _____
Deputy Clerk

By: _____
Maria Sachs, Mayor

WITNESS: Digitally signed by
Pardo, Michelle J
Date: 2024.01.19
10:49:41 -05'00'
Michelle J
SIGNATURE

CONSULTANT:
HDR Engineering, Inc.

COMPANY NAME

Michelle J. Pardo

Name (type or print)

Duty, Katie E. Digitally signed by Duty, Katie E.
Date: 2024.01.19 10:44:20 -05'00'

Signature

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY

Katie E. Duty

Name (type of print)

By: Anne Idelfant
County Attorney

Vice President

Title

APPROVED AS TO TERMS
AND CONDITIONS

By: Laura Beebe
Director of Airports

AMENDMENT NO. 4 INDEX

CERTIFICATE OF INSURANCE

EXHIBIT A: AMENDMENT NO. 4

EXHIBIT A-1 – Task I-24-F45-H-012: F45 Terminal Ramp Value Engineer Design

EXHIBIT A-2 – Task I-24-F45-H-013: F45 Runway 9R-27L Design Update

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
DX00000768	HDR Engineering, Inc.	Modified	Compliant with Minor/Expiring Deficiencies					R-2017-0409	Airfield Design & Engineering Services
		Ap , XV	Liberty Mutual Fire Insurance Company	AS2641444950043	6/1/2023	6/1/2024	Auto Liability		
		Ap , XV	Ohio Casualty Insurance Company	ECO2457919363	6/1/2023	6/1/2024	Excess Liability		
		Ap , XV	Liberty Mutual Fire Insurance Company	TB2641444950033	6/1/2023	6/1/2024	General Liability		
		A , XV	Lloyds Underwriters (Canada Branch)	P001412300	6/1/2023	6/1/2024	Professional Liability		
		Ar , XV	Liberty Insurance Corporation	WA764D444950013	6/1/2023	6/1/2024	Workers Comp		

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

EXHIBIT A: AMENDMENT NO. 4

This Amendment No. 4 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. 4

EXHIBIT A-1 – Task I-24-F45-H-012: F45 Terminal Ramp Value Engineer Design

EXHIBIT A-2 – Task I-24-F45-H-013: F45 Runway 9R-27L Design Update

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I: Summary of Fees

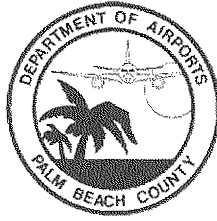
EXHIBIT B-II: Schedule of Payments

EXHIBIT C – PROPOSED SCHEDULES

EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE

EXHIBIT A-1 – Task I-24-F45-H-012: F45 Terminal Ramp Value Engineer Design

Palm Beach County Department of Airports



Airport Civil Consulting Services

Task Authorization No. I-24-F45-H-012

North Palm Beach County General Aviation Airport (F45)

Terminal Ramp Value Engineering



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

March 2024



- Quantum Electrical Engineering (QEE): Electrical, signage, and lighting design

PROJECT DESCRIPTION AND GENERAL SCOPE

Consultant will perform the services as a task under its Professional Services Agreement (PSA) with the COUNTY. The desired task outcome will be the delivery of documents to support the bidding of construction work.

1. Phase 1A: Planning and Programming

This phase is not part of this proposal.

2. Phase 1B: Conceptual Design

This phase is not part of this proposal.

3. Phase 2: Schematic Design

This phase is not part of this proposal.

4. Phase 3A: 60% Construction Documents

This phase is not part of this proposal.

5. Phase 3B: 90% Construction Documents

This phase is not part of this proposal.

6. Phase 3C: 100% Construction Documents

- 6.1. Preparation of updated drawings for phasing, erosion control, demolition, grading, drainage, paving, marking, and electrical.
- 6.2. Prepare final CSPP.
- 6.3. Prepare final construction schedule.
- 6.4. Prepare final OPC.
- 6.5. Prepare final front end and technical specifications.
- 6.6. Prepare and submit request letter, exhibits, narratives, and supporting calculations to the South Florida Water Management District for a minor modification of the previously obtained Environmental Resource Permit.
- 6.7. Design Team Coordination Meetings. CONSULTANT will conduct up to 13 weekly design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 6.8. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review by the DOA.
- 6.9. 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.

LNA Runway 4-22 Rehabilitation

- 6.10. Consultant shall evaluate the potential use of a state highway asphalt specification in lieu of an FAA asphalt pavement specification, as allowed by FAA construction specification P-403 for aircraft less than 12,500 lbs. The evaluation shall be for the Rehabilitation of Runway 4-22 at the LNA airport.
- 6.11. If the Consultant finds the state highway asphalt pavement specification is appropriate for the project, Consultant shall select an appropriate state highway mix and revise the design documents to show the state highway mix as a bid alternate to the FAA asphalt pavement mix.



7. Phase 4: Bidding and Award of Contract

This phase is not part of this proposal. Bidding and award of contract will be performed under the original design phase contract for each project.

8. Phase 5: Construction Administration Services

This phase is not part of this proposal.

PROJECT SCHEDULE

Table 1 Project Design Schedule

Phase	Duration
Terminal Ramp Value Engineering	
1A – Planning and Programming	N/A
1B – Conceptual Design	N/A
2 – Schematic Design	N/A
3A – 60% Construction Documents	N/A
3B – 90% Construction Documents	N/A
3C – 100% Construction Documents	90 calendar days after NTP
4 – Bid and Award	N/A
5 – Construction Administration	N/A

SUMMARY OF DELIVERABLES

Table 2 Deliverables by Phase – Terminal Ramp Value Engineering

Task	Deliverables
Phase 3C – 100% Construction Documents: F45 Terminal Ramp Value Engineering	<ul style="list-style-type: none"> • Drawings (1 hard copy 11x17 if requested, PDF, AutoCAD 2022.dwg) • CSPP • Construction schedule • Opinion of probable construction cost (Excel) • Project Manual (Front End and Technical Specifications, 1 hard copy if requested, Word) • SFWMD ERP Permit application • Submittal review meeting minutes • All submittals in PDF format unless noted
Phase 3C – 100% Construction Documents: LNA Runway 4-22 Rehabilitation	<ul style="list-style-type: none"> • State highway asphalt specification evaluation memo • Drawings, technical specs, and front end specs with the state highway asphalt pavement mix bid alternate, if found to be appropriate.

TEAM ROLES

Table 3 Team Roles

Firm	Description
HDR	<ul style="list-style-type: none"> • Project management, civil engineering
Quantum Electrical Engineering*	<ul style="list-style-type: none"> • Electrical engineering, lighting, and signage

*DBE Firm



ASSUMPTIONS

- 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.
- Bidding and award of contracts will be performed under the previous contracted scope and fee for each project.
- Front end specification templates are provided by the DOA.

EXCLUSIONS

- Major updates to project phasing
- Construction phase services



Subconsultant Contract
Quantum Electrical Engineering
Electrical, Lighting, and Signage Design

QUANTUM

Electrical Engineering, Inc.

December 19, 2023

HDR, Inc.
Mr. William Bowdoin, P.E.
4830 W Kennedy Blvd., Suite 400
Tampa, Florida 33609

Subject: Electrical Engineering Services Fee Proposal for the Palm Beach County
Department of Airports - Phase 3C, Task 1 Scope for VE design of F45 Terminal
Ramp Expansion.

Dear William:

Quantum Electrical Engineering, Inc. (QUANTUM) is pleased to provide HDR an electrical engineering services fee proposal for Palm Beach County Department of Airports - Phase 3C, Task 1 Scope for VE design of F45 Terminal Ramp Expansion. This proposal based on the information provided by HDR dated December 12, 2023. The following tasks are included in our scope of services:

Repackaging Design Documents

- Includes design coordination meetings with the DOA and HDR Team.
- Quantum shall revise/up-date the airfield electrical plans, specifications and estimates for the reduction in pavement to match the allotted grant. Includes revisions to plan layouts, details, schedules and pay items.

Exclusions and Assumptions

- HDR shall provide all base drawings to QUANTUM on AutoCAD 2022 or higher.
- QUANTUM shall provide 1-set of electronic airfield electrical plans, specifications and estimates to HDR for reviews, permit documents and bid documents.
- HDR shall provide all printing of plans, specifications and estimates.
- Does not include Construction Services.

Our proposed total Lump-Sum fee is:

\$4,119.19

(See attachment breakdown)

Sincerely,



Amy L. Champagne-Baker, PE
President

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

www.QuantumElectricalEngineering.com

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

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - PHASE 3C, TASK 1 SCOPE FOR VE DESIGN OF F45 TERMINAL RAMP EXPANSION									
QUANTUM ELECTRICAL ENGINEERING, INC.									
SCOPE FEE SUMMARY									
FEE PROPOSAL ELECTRICAL DESIGN to HDR 12/19/2023									
Rate	\$161.54	\$144.23	\$138.46	\$69.23	\$132.69	\$46.15			
PHASE OF WORK	Proj. Mgr.	Prof. Eng	Proj. Eng	CADD/Tech	Field Eng.	Clerical	Total	Expenses	TOTAL
	Hours	Hours	Hours	Hours	Hours	Hours	Hours		TASK COST
Repackaging Design Documents									
Design Review Migs DOA and HDR		1					1		\$144.23
Electrical Design Plans & Details		4	8	16			28		\$2,792.28
Specifications, Bid Items & Cost Estimates		4	2			1	7		\$899.99
QA/QC & Comment Incorporation		1		2			3		\$282.69
Subtotal	0	10	10	18	0	1	39		\$4,119.19
Grand Total Hours	0	10	10	18	0	1	39		\$4,119.19
Grand Total Labor Cost	\$0.00	\$1,442.30	\$1,384.60	\$1,246.14	\$0.00	\$46.15			



END OF EXHIBIT A



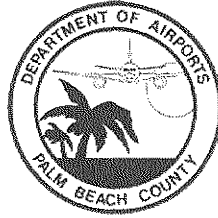
HDR Engineering, Inc.
PROJECT PROPOSAL - F45 TERMINAL RAMP VALUE ENGINEERING

Task Authorization No. I-24-F45-H-012 - F45 Terminal Ramp Value Engineering									
Contract Rate	\$232.50	\$188.46	\$173.96	\$136.27	\$129.24	\$114.89	\$101.45		
Scope / Task Title	Sr. PM	PM	Civil Engineer	Jr. Civil Engineer	Engineering Intern	Accountant	Sr. Admin Assistant	Total	
Reimbursables (Not to Exceed)									
Reproduction	# Drawings	# Pages	# Sets						
	@	@							
	\$ 1.00	\$ 0.20							
Phase 1A - Planning and Programming									\$ -
Phase 2 - Schematic Design									\$ -
Phase 3A - 60% Construction Documents									\$ -
Phase 3B - 90% Construction Documents									\$ -
Phase 3C - 100% Construction Documents									\$ -
Phase 4 - Bidding and Award of Contract									\$ -
Total Reproduction									\$ -
Postage/Delivery	# Packages	# Packages							
	@	@							
	\$ -	\$ -							\$ -
Total Postage/Delivery	0	0							\$ -
Permitting	ERP Minor Mod	\$250	x	1 application					\$ 250.00
Travel	# People	# Days	Airfare @	Car @	Lodging @	Meals @	Parking		
	\$ -	\$ -	\$ -	\$ 75.00	\$ -	\$ 40.00	\$ 20.00		
			\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
			\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
Reimbursables (Not to Exceed)									\$250.00
Summary									
								Phase 3C.1 - 100% Construction Documents (Lump Sum)	\$90,568.89
								Subconsultants (Lump Sum)	\$4,119.19
								Reimbursables (Not to Exceed)	\$250.00
Total Basic Services Contract Value Task Authorization No. I-24-F45-H-012 - F45 Terminal Ramp Value Engineering									\$94,938.08

End of Exhibit B

EXHIBIT A-2 – Task I-24-F45-H-013: F45 Runway 9R-27L Design Update

Palm Beach County Department of Airports



Airport Civil Consulting Services

Task Authorization No. I-24-F45-H-013

North Palm Beach County General Aviation Airport (F45)

Runway 9R-27L Design Updates



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

March 2024

EXHIBIT 'A'

SCOPE OF SERVICES

Description of the services outlined below in Section 0 - General is intended to be general in nature and should not be construed to be a complete description of the services or a limitation on the Scope of Services to be provided. Refer to Sections 1 through 8 for the definition of specific scope items to be performed by HDR.

0. GENERAL

0.1 THE PROJECTS

Runway 9R-27L Design Updates

The Palm Beach County Department of Airports' (DOA) North Palm Beach County General Aviation Airport (F45) is served by the 4,300' x 100' Runway 9R-27L and connecting taxiways E, F, and connectors K1-K7 (Figure 1). The DOA contracted with the Consultant in 2019 to provide design services for the rehabilitation of Runway 9R-27L and its connecting taxiways. The project is known as the 'Runway 9R-27L Rehabilitation'. The design was completed in January 2021 but was not bid for construction.

The DOA intends to bid the project in 2024. In the time since design completion, there became a need to adjust the design in consideration of the upcoming relocation of Runway 14-32 and updated FAA design criteria. The FAA and DOA desire for HDR to break out a portion of the original project scope into a bid add alternate. The project base bid and add alternate consist of the following scope items:

- Base Bid:
 - Eliminate pavement strengthening and substitute with a 3-inch mill and asphalt overlay with no grade corrections.
 - Removal of work on Runway 14-32 in the runway safety area, Taxiway E (K4) and Taxiway F from the scope of work
- Bid Add Alternate:
 - Revise taxiway improvements from base bid to a bid alternate for Taxiways K1, K2, K3, K5, K6, and K7.
 - Update taxiway grading to meet existing elevations
 - Update taxiway geometry to comply with FAA AC 150/5300-13B 'Airport Design'

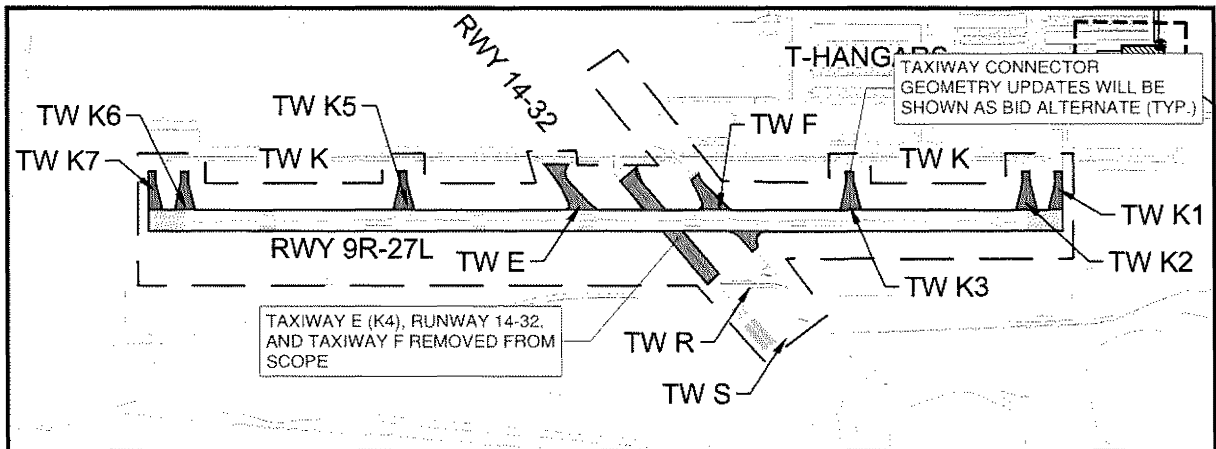


Figure 1 - Runway 9R-27L Construction Updated Scope



Consultant will perform the design updates as a task under its Professional Services Agreement (PSA) with the DOA. The desired project outcomes are:

- Revised bidding documents reflecting the changes to project limits

The following HDR Team members will be involved in this project for the roles defined as follows. Their respective scope and fee proposals are herein.

- Quantum Electrical Engineering (QEE): Electrical, signage, and lighting design

PROJECT DESCRIPTION AND GENERAL SCOPE

Consultant will perform the services as a task under its Professional Services Agreement (PSA) with the COUNTY. The desired task outcome will be the delivery of documents to support the bidding of construction work.

1. Phase 1A: Planning and Programming

This phase is not part of this proposal.

2. Phase 1B: Conceptual Design

This phase is not part of this proposal.

3. Phase 2: Schematic Design

This phase is not part of this proposal.

4. Phase 3A: 60% Construction Documents

This phase is not part of this proposal.

5. Phase 3B: 90% Construction Documents

This phase is not part of this proposal.

6. Phase 3C: 100% Construction Documents

RUNWAY 9R-27L DESIGN UPDATES

- 6.1. Preparation of updated drawings for phasing, erosion control, demolition, grading, paving, marking, and electrical for both base bid and bid add alternate as described above.
- 6.2. Prepare final CSPP.
- 6.3. Prepare final construction schedule.
- 6.4. Preparation of final OPC.
- 6.5. Prepare final front end and technical specifications.
- 6.6. Prepare and submit request letter, exhibits, narratives, and supporting calculations to the South Florida Water Management District for a minor modification of the previously obtained Environmental Resource Permit.
- 6.7. Design Team Coordination Meetings. CONSULTANT will conduct 9 design team coordination meetings during this phase to coordinate among the disciplines and subconsultant team members.
- 6.8. Submit phase deliverables. CONSULTANT will submit the phase deliverables from Table 2 for review comments and approval by the DOA.
- 6.9. 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.



7. Phase 4: Bidding and Award of Contract

This phase is not part of this proposal. Bidding and award of contract will be performed under the original design phase contract for each project.

8. Phase 5: Construction Administration Services

This phase is not part of this proposal.

PROJECT SCHEDULE

Table 1 Project Design Schedule

Phase	Duration
1A – Planning and Programming	N/A
1B – Conceptual Design	N/A
2 – Schematic Design	N/A
3A – 60% Construction Documents	N/A
3B – 90% Construction Documents	N/A
3C – 100% Construction Documents	45 calendar days after NTP
4 – Bid and Award	N/A
5 – Construction Administration	N/A

SUMMARY OF DELIVERABLES

Table 2 Deliverables by Phase - Runway 9R-27L Design Updates

Task	Deliverables
Phase 3C – 100% Construction Documents	<ul style="list-style-type: none"> • Drawings (1 hard copy 11x17 if requested, PDF, AutoCAD 2022.dwg) • CSPP • Construction schedule • Opinion of probable construction cost (Excel) • Project Manual (Front End and Technical Specifications, 1 hard copy if requested, Word) • SFWMD ERP Permit application • Submittal review meeting minutes • All submittals in PDF format unless noted

TEAM ROLES

Table 3 Team Roles

Firm	Description
HDR	Project management, civil engineering
Quantum Electrical Engineering*	Electrical engineering, lighting, and signage

*DBE Firm



ASSUMPTIONS

- 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.
- Bidding and award of contracts will be performed under the previous contracted scope and fee.
- Front end specification templates are provided by the DOA.

EXCLUSIONS

- Major updates to project phasing
- Construction phase services



Subconsultant Contract
Quantum Electrical Engineering
Electrical, Lighting, and Signage Design

QUANTUM

Electrical Engineering, Inc.

January 11, 2024

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

Subject: Electrical Services Fee Proposal for the Palm Beach County Department of Airports
(DOA) – F45 Runway 9R-27L Design Updates

Dear Cody:

Quantum Electrical Engineering, Inc. (Quantum) is pleased to provide HDR an electrical services fee proposal for the F45 Runway 9R-27L Design Updates – Redesign of Bid Documents. The following items are included in our scope.

- Includes coordination meetings with DOA and the HDR design team.
- Quantum shall redesign the electrical bid plans to create two separate design packages.
- One package will be for the base bid which shall include the following work:
 - Adjustment of existing in-pavement fixtures on Runway 9R-27L for the mill and overlay operation.
 - Installation of new circuit conductors in the existing conduit system.
 - Removal of the existing design work that was shifted to the Alternate 1 package.
 - Removal of the designed junction can plaza and ductbank system from the vault to Runway 9-27.
 - Removal of the lighting and signage design along T/W E and F.
 - Removal of the existing airfield electrical vault modifications from Base Bid.
 - Removal of the modifications of the existing airfield lighting control system.
- The second package of drawings will be Alternate 1. This package will add drawings in the bid documents and will reflect the work that has been shifted to the Alternate package.
 - This will add additional work beyond the Base Bid electrical design along Runway 9R-27L and the new work associated with Taxiway K1, K2, K3, K5, K6 and K7 and the affiliated work that was include in the original design.

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

\$ 16,251.83

Sincerely,



Amy L. Champagne-Baker, PE
President

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

www.QuantumElectricalEngineering.com

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

PALM BEACH COUNTY DEPARTMENT OF AIRPORTS - F45 Runway 9L-27R Design Updates								
QUANTUM ELECTRICAL ENGINEERING, INC. SCOPE FEE SUMMARY								
FEE PROPOSAL ELECTRICAL DESIGN to HDR 10/5/2022								
Rate	\$161.64	\$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
Design Documents								
Design Review Mtgs		9					9	\$1,298.07
Lighting and Electrical Design Drawing updates (2 packages)		16	24	40			80	\$8,861.52
Specifications & Quantity takeoff and Cost Estimate		8	16			4	28	\$3,553.80
QA/QC & Comment Incorporation		8	4	8		4	24	\$2,538.44
Subtotal	0	41	44	48	0	8	141	\$16,261.83
Grand Total Hours	0	41	44	48	0	8	141	\$16,261.83
Grand Total Labor Cost	\$0.00	\$5,913.43	\$6,092.24	\$3,876.96	\$0.00	\$369.20		



END OF EXHIBIT A



HDR Engineering, Inc.
PROJECT PROPOSAL - F45 RUNWAY 9R-27L DESIGN UPDATES

Task Authorization No. I-24-F45-H-013 - F45 Runway 9R-27L Design Updates									
Contract Rate	\$232.50	\$188.46	\$173.96	\$136.27	\$129.24	\$114.89	\$101.48		
Scope / Task Title	Sr. PM	PM	Civil Engineer	Jr. Civil Engineer	Engineering Intern	Accountant	Sr. Admin Assistant	Total	
Reimbursables (Not to Exceed)									
Reproduction	# Drawings @	# Pages @	# Sets						
	\$ 1.00	\$ 0.20							
Phase 1A - Planning and Programming									\$ -
Phase 2 - Schematic Design									\$ -
Phase 3A - 60% Construction Documents									\$ -
Phase 3B - 90% Construction Documents									\$ -
Phase 3C - 100% Construction Documents									\$ -
Phase 4 - Bidding and Award of Contract									\$ -
Total Reproduction									\$ -
Postage/Delivery	# Packages @	# Packages @							
	\$ -	\$ -							\$ -
Total Postage/Delivery									\$ -
Permitting	ERP Minor Mod	\$500 x		1 application					\$ 500.00
Travel	# People	# Days	Airfare @	Car @	Lodging @	Meals @	Parking		
	\$ -	\$ -	\$ -	\$ 75.00	\$ -	\$ 40.00	\$ 20.00		
			\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
			\$ -	\$ -	\$ -	\$ -	\$ -		\$ -
Reimbursables (Not to Exceed)									\$500.00
Summary									
Phase 3C.2 - 100% Construction Documents (Lump Sum)									\$82,796.56
Subconsultants (Lump Sum)									\$16,251.83
Reimbursables (Not to Exceed)									\$500.00
Total Basic Services Contract Value Task Authorization No. I-24-F45-H-013 - F45 Runway 9R-27L Design Updates									\$99,548.39

End of Exhibit B

EXHIBIT B: DETAILED FEES, EXPENSES AND PAYMENTS

EXHIBIT B-I: Summary of Fees

This Amendment No. 4 as described herein, consists of 2 tasks. As summarized below, these initial efforts have an overall budget of \$194,486.47.

LEVEL I TASKS:

TASK LEVEL / NO.	DESCRIPTION	LUMP SUM	REIMBURSABLE EXPENSES	TOTAL
I-24-F45-H-012	F45 Terminal Ramp Value Engineer Design	\$94,688.08	\$250.00	\$94,938.08
I-24-F45-H-013	F45 Runway 9R-27L Design Update	\$99,048.39	\$500.00	\$99,548.39
GRAND TOTAL (AMENDMENT NO. 4)				\$194,486.47

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. 4:

LEVEL I TASKS:

Task I-24-F45-H-012	<u>F45 Terminal Ramp Value Engineer Design</u>
Duration:	90 Calendar Days
Compensation:	\$94,938.08
Task I-24-F45-H-013	<u>F45 Runway 9R-27L Design Update</u>
Duration:	45 Calendar Days
Compensation:	\$99,548.39

TOTAL = \$194,486.47

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-24-F45-H-012 F45 Terminal Ramp Value Engineer Design
Duration: 90 Calendar Days

Task I-24-F45-H-013 F45 Runway 9R-27L Design Update
Duration: 45 Calendar Days

Exhibit D
DBE GOAL INFORMATION

EXHIBIT D – DISADVANTAGED BUSINESS ENTERPRISE COMPLIANCE

Table D-1 summarizes the estimated fee for each of HDR's team members that are certified DBE firms for Amendment 4.

Firm	Amendment 4 Totals	% of Amendment 4
Quantum Electrical Engineering	\$20,371.02	10%
TOTALS	\$20,371.02	10%

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

THE REST OF THIS PAGE IS INTENTIONALLY LEFT BLANK.

Table D-2 summarizes the estimated fee for each of HDR's 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 (R-2022-0887) Totals	Amendment 4 Totals	Total Fees	% of Total Contract
Tierra SF	\$51,397.33	\$0.00	\$32,455.00	\$16,218.00	\$0.00	\$100,070.33	5%
Brown & Phillips	\$87,727.23	\$0.00	\$67,295.83	\$42,271.55	\$0.00	\$197,294.61	10%
Quantum Electrical Engineering	\$0.00	\$0.00	\$42,322.64	\$11,451.86	\$20,371.02	\$74,145.52	4%
Marlin Engineering	\$0.00	\$0.00	\$0.00	\$29,664.54	\$0.00	\$29,664.54	1%
TOTALS	\$139,124.56	\$0.00	\$142,073.47	\$99,605.95	\$20,371.02	\$401,175.00	20%

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 4

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) 210-8224	Electrical engineering design services	<input type="checkbox"/> Prime Consultant <input checked="" type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	10 %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %
		<input type="checkbox"/> Prime Consultant <input type="checkbox"/> Subcontractor <input type="checkbox"/> Supplier <input type="checkbox"/> Manufacturer	_____ %	_____ %	_____ %	_____ %

Total Percentage of DBE Participation: 10 %

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.dpt.state.fl.us/EqualOpportunityOffice/biznet/mainmenu.asp>.
- If materials or supplies are proposed to be purchased from a DBE regular dealer, the undersigned acknowledges that only sixty percent (60%) of the proposed expenditure will be counted toward attainment of the DBE goal.

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

By: Cody Parham
Signature: Cody Parham - Project Manager

Date: 1/18/24

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 4

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: 10 %

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

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

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

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

Quantum Electrical Engineering, Inc.

Printed Name of DBE Subcontractor

By: [Signature]
Signature

Date: 1/19/2024

BUDGET TRANSFER

24- 0376

BOARD OF COUNTY COMMISSIONERS
 PALM BEACH COUNTY, FLORIDA
 BUDGET TRANSFER

Advantage Document Numbers
 BGRV:
 BGEX: 121-012524*892

FUND 4111 Airport Improvement & Development Fund

ACCT.NUMBER	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED As of 1/25/24	REMAINING BALANCE
<u>REVENUES/EXPENDITURES</u>								
121-A486-6505	Design/Eng/Mgmt - CIP Adm	0	0	99,549	0	99,549	0	99,549
121-A900-9909	Reserves Improvement Program	17,216,760	4,414,048	0	99,549	4,314,499	0	4,314,499
Total Receipts and Balances		217,226,377	214,803,233	99,549	99,549	214,803,233		

Signatures & Dates

By Board of County Commissioners
 At Meeting of

Office of Financial Management & Budget
 INITIATING DEPARTMENT/DIVISION

Kenneth / Kash 1/25/24

Tuesday, March 5, 2024

Administration/Budget Department Approval

ADDU 2/5/24

Deputy Clerk to the

OFMB Department - Posted

Board of County Commissioners