



CITY OF POMpano BEACH
100 W Atlantic Blvd, Pompano Beach, FL 33060

WORK AUTHORIZATION 12	COPBFL Project Manager: Dr. Tammy L. Good Phone: 954-786-5512 Email: Tammy.Good@copbfl.com COPBFL Contract Manager: Aymara R. Schmidt Phone: 954-786-5574 Email: Aymara.Schmidt@copbfl.com
Firm Name: HDR Engineering, Inc. Address: 1475 Centrepark Blvd. Suite 230 City/State/Zip: West Palm Beach, FL 33401	Firm's Contact Representative: Cody Parham Phone: 561.209.6641 Email: Cody.Parham@hdrinc.com
<p>In accordance with solicitation number E-10-22, Ordinance number 2023-07 dated November 14, 2022 for performance of Air Park Consulting Services the City of Pompano Beach hereby directs the firm to perform the services for the project as detailed in the attached scope of work, attached hereto and made a part of this Work Authorization for the amount specified below.</p> <p>All terms and conditions of the Original Contract dated November 14, 2022 approved via Ordinance No. 2023-07 remain unchanged and in full force and effect.</p>	
Description: See attached Exhibit "A" for a detailed scope description.	
Total Work Authorization Amount: \$170,895.00; FAA funding \$150,205.50 and FDOT funding \$8,344.75 CIP/Account No. (For City's internal use): 24-027 Account# 465-7766-542.65-03 (City funding \$12,344.75)	
Firm/Contractor Approval: See Signature Pages Below	City of Pompano Beach Approval: See Signature Pages Below

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day and year hereinabove written.

CITY OF POMPANO BEACH

By: _____
REX HARDIN, MAYOR

By: _____
GREGORY P. HARRISON, CITY MANAGER

Attest:

KERVIN ALFRED, CITY CLERK

(SEAL)

APPROVED AS TO FORM:

MARK E. BERMAN, CITY ATTORNEY

"CONTRACTOR"

HDR Engineering, Inc.
(Print or type name of company here)

Witnesses:

BONNIE LEGGETT

Bonnie Leggett
(Print or Type Name)

Hastine Monroe
(Print or Type Name)

By: Jeffrey B Arms

Print Name: Jeffrey B. Arms

Title: Vice President

Business License No. _____

STATE OF FLORIDA

COUNTY OF BROWARD Orange

The foregoing instrument was acknowledged before me, by means of ☒ physical presence or ☐ online notarization, this 6 day of January, 2025, by Jeffrey B. Arms as Vice President of HDR Engineering, Inc., a Nebraska corporation, a foreign corporation authorized to do business in the State of Florida, on behalf of the corporation, who is personally known to me or who has produced _____ as identification

NOTARY'S SEAL:



Linda M Chrapczynski
NOTARY PUBLIC, STATE OF FLORIDA

Linda M. Chrapczynski
(Name of Acknowledger Typed, Printed or Stamped)

HH 220255
Commission Number

**Professional Engineering Design and Related Services for
Runway 10-28 Rehabilitation and Correction of Expanses of
Pavement
December 26, 2024**

PROJECT DESCRIPTION

The CITY has requested the CONSULTANT to perform design services for the PMP Runway 10-28 rehabilitation and correction of expanses of pavement, schematically shown on the Airport Layout Plan (ALP) in Figure 1. The desired task outcome will be the creation of design documents to support a CITY bid solicitation for construction of the project. Specific project components are:

- [illegible]

On January 21, 2025, the Runway 10-28 Safety Enhancement project completed construction on the east end of Runway 10-28. Pompano Beach Airpark (PMP) had three (3) paved asphalt runways; Runway 15-33, Runway 10-28 and Runway 6-24. In the airfield's previous layout, the thresholds of Runway 33 and Runway 28 overlap. The Federal Aviation Administration (FAA) had requested

that this matter be addressed as the existing geometry was not functioning in accordance with their Advisory Circulars. To correct this issue, the CITY extended Runway 28 to the east. As part of the Runway 28 extension project, the CITY performed taxiway modifications to assist with the elimination of runway incursions.

SCOPE OF WORK

The service to be provided by the CONSULTANT for the CITY under this task order will consist of the following tasks:

TASK 1 – CONCEPTUAL DESIGN PHASE (30% DESIGN)

This phase consists of the fieldwork, functional layouts, and preliminary plan development to achieve approximately 30% design completion for the project. Specific tasks consist of the following:

1. Construction phasing and schedule
 - a. Meet with the CITY to fully define project elements, phasing requirements, and project issues.
 - b. Prepare a preliminary design schedule.
 - c. Develop project phasing based on anticipated controlling factors.
 - d. Develop construction sequence lengths.
 - e. Identify contractor staging areas(s), haul routes, access gates(s), working hours, and closures.
2. Stakeholder Meeting. The CONSULTANT will participate in up to one (1) meeting with airport stakeholders and present the Construction Phasing to those stakeholders. The main purpose of the meeting will be to receive input from the stakeholders on the impact of the construction phasing on airport operations and to explore possible options to minimize negative impacts. The CONSULTANT will facilitate the meeting, record meeting minutes and prepare exhibits in support of the meeting. The exhibits will be in the form of presentation boards or power point presentation outlining the phasing options. CITY shall compile stakeholder list, invite stakeholders to the meetings, and provide meeting space. Upon completion of the stakeholder meetings, the CONSULTANT will meet with the City to review the results and will, with the direct input of the CITY, accept the original phasing or adjust the plans.
3. Prepare base maps for the project.
4. Prepare conceptual typical section
5. Prepare a grading concept, assuming that profile and transverse slope corrections may be necessary.
6. Prepare conceptual project layout plans.
7. Prepare a project safety plan showing contractor access, haul routes, and contractor staging areas.
8. Prepare conceptual phasing and maintenance of traffic plans.
9. Conceptual Construction Safety and Phasing Plan (CSPP). CONSULTANT will produce a conceptual CSPP.
10. Prepare conceptual electrical plans.
11. Prepare a draft outline of the Engineering Report.
12. Prepare a draft outline of technical specifications for this project.
13. The CONSULTANT shall prepare a conceptual OPC. Consultant will develop conceptual unit costs for major activities. This is a Class 4 estimate, as defined by the Association for the Advancement of Cost Engineering (AACE). Class 4 estimates are generally prepared based on limited information, and subsequently have wide accuracy ranges. Typical

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- accuracy ranges for Class 4 estimates are -10% to -20% on the low side, and +20% to +30% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.
14. Conduct one (1) design review and coordination meeting with the City.
 15. Review and respond to concept coordination review meeting issues.

The anticipated plans sheets are shown in Table 1 under TASK 7 - CONSTRUCTION DOCUMENT PREPARATION PHASE (FINAL PLANS).

Deliverables:

- Stakeholder meeting exhibits and minutes
- Up to five (5) sets of construction plans (11" x 17") or PDF files as required at approximately 30% completion
- Opinion of probable construction cost based on the 30% construction plans
- Conceptual CSPP

TASK 2 – PRELIMINARY DESIGN PHASE (60% DESIGN)

During this phase, CONSULTANT will continue preparing contract documents to a 60% level of completion. These documents will consist of construction drawings, technical specifications, and engineering report. Drawings will be in AutoCAD. Technical specifications, the engineering report, and other written documents will be in Microsoft Word. Designs will be in accordance with FAA Regulations, and Advisory Circulars, and will conform to FDOT guidelines. The engineering report will conform to the FAA format. Task in this phase will consist of the following:

1. Develop proposed profiles for the pavements.
2. Develop proposed cross sections for the pavements and slopes for tie-in to existing grade.
3. Prepare preliminary pavement marking plans.
4. OPC. Consultant will develop design development unit costs for construction activities. This is a Class 3 estimate, as defined by the Association for the Advancement of Cost Engineering (AACE). Class 3 estimates are generally prepared based on design development information. Typical accuracy ranges for Class 3 estimates are -5% to -15% on the low side, and +10% to +20% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.
5. Prepare preliminary construction safety plans with details and notes and construction duration.
6. Develop construction plans to 60% completion.
7. Prepare preliminary Engineering Report.
8. Prepare preliminary technical specifications.
9. Perform Quality Control review.
10. Submit plans, technical specifications, engineering report, and opinion of probable construction cost to the CITY for review and comment.
11. Conduct up to one (1) design review and coordination review meeting with the CITY.
12. Review and respond to issues raised at the preliminary design meeting.

The anticipated plans sheets are shown in Table 1 under TASK 7 - CONSTRUCTION DOCUMENT PREPARATION PHASE (FINAL PLANS).

Deliverables:

- Five (5) sets of construction plans (11" x 17") or PDF files as required at approximately 60% completion
- Technical Specifications- Five (5) sets
- Engineering Report- Five (5) copies
- Opinion of Probable Construction Cost- Five (5) copies

TASK 3 – DESIGN DEVELOPMENT PHASE (90% DESIGN)

During this phase, CONSULTANT will complete designs and contract documents to 90% completion. This includes construction documents, technical specifications, and an opinion of probable cost. Tasks in this phase will consist of the following:

1. Finalize the project layout plans.
2. Finalize the paving, grading, and drainage plans.
3. Finalize the typical pavement sections and details.
4. Finalize phasing plans and notes.
5. Finalize construction safety plans with details and notes and construction durations.
6. Develop pavement marking plans.
7. Finalize electrical plans.
8. Conduct a plan-in-hand field review of the construction plans.
9. OPC. Consultant will develop design development unit costs for construction activities. This is a Class 3 estimate, as defined by the Association for the Advancement of Cost Engineering (AACE). Class 3 estimates are generally prepared based on design development information. Typical accuracy ranges for Class 3 estimates are -5% to -15% on the low side, and +10% to +20% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.
10. Update the technical specifications, incorporate review comments previously received.
11. Calculate anticipated construction time to be incorporated into the bid documents.
12. Update the engineering report, incorporate review comments previously received.
13. Provide Quality Control review of the services being provided.
14. Conduct one (1) design review and coordination meeting with the CITY.
15. Respond to issues received in the design review meeting.
16. Prepare a Construction Safety and Phasing Plan (CSPP)
17. Notify FAA of localizer calibration and flight check request

Deliverables:

- Five (5) sets of construction plans or PDF files as required at approximately 90% completion (11" x 17")
- Technical Specifications – Five (5) sets
- Engineering Report – Five (5) copies
- Opinion of probable construction cost – Five (5) copies
- Construction Safety and Phasing Plan – One (1) digital copy

TASK 4 – CONSTRUCTION DOCUMENT PREPARATION PHASE (BIDDING DOCUMENTS)

CONSULTANT will complete designs and contract documents that consist of construction drawings, technical specification, and engineering report. Drawings will be in AutoCAD format. Technical specifications, the engineering report, and other written documents will be in Microsoft Word. Design

will be in accordance with FAA Regulations and Advisory Circulars and based on FDOT guidelines. The engineering report will conform to the FAA format. Task in this phase will consist of the following:

1. Finalize design drawings.
2. Finalize technical specifications.
3. Finalize engineering report.
4. Wildlife Survey Memo. CONSULTANT shall update the draft memo previously submitted to account for changes to the project scope and regulatory policy.
5. Develop Bid Forms with final quantities and construction durations.
6. Prepare supplemental provisions.
7. Prepare FAA airspace checklist.
8. OPC. Consultant will develop bid-level unit costs for construction activities. This is a Class 2 estimate, as defined by the AACE. Class 2 estimates are generally prepared based on detailed design information. Typical accuracy ranges for Class 2 estimates are -5% to -10% on the low side, and +5% to +15% on the high side, depending on the technological complexity of the project, appropriate reference information, and the inclusion of an appropriate contingency determination. Ranges could exceed those shown in unusual circumstances.

The anticipated plans sheets are shown below:

Table 1 - Plan Submittal Schedule

TITLE	30%	60%	90%	100%
Cover Sheet	Preliminary	Updated	Final	Final
Drawing Index	Preliminary	Updated	Final	Final
General Notes, Legend, and Abbreviations	N/A	Preliminary	Final	Final
Summary of Quantities	Preliminary	Updated	Updated	Final
Project Area Plan (Overall Site Plan)	Preliminary	Updated	Final	Final
Staging and Access Plan	Preliminary	Updated	Final	Final
Safety Plan	Preliminary	Updated	Final	Final
Construction Phasing and MOT Plan	Preliminary	Updated	Updated	Final
Wildlife Management Plan	N/A	Preliminary	Updated	Final
Safety and Security Notes and Details	N/A	Preliminary	Final	Final
Topographic Survey	N/A	Final	Final	Final
Horizontal Control Plan	N/A	Preliminary	Updated	Final
Erosion Control Plan	N/A	Preliminary	Updated	Final
Erosion Control Details	N/A	Preliminary	Updated	Final
Demolition Plan	Preliminary	Updated	Updated	Final
Paving and Geometry Plan	Preliminary	Updated	Updated	Final
Typical Sections	Preliminary	Updated	Updated	Final
Paving Details	N/A	Preliminary	Updated	Final
Drainage Plan	N/A	Preliminary	Updated	Final
Drainage Profiles	N/A	Preliminary	Updated	Final
Summary of Drainage Structures	N/A	Preliminary	Updated	Final
Drainage Details	N/A	Preliminary	Updated	Final
Grading Plan	N/A	Preliminary	Updated	Final
Grading Profiles	N/A	Preliminary	Updated	Final
Pavement Elevation Plan	N/A	Preliminary	Final	Final
Pavement Marking Plan	Preliminary	Updated	Updated	Final
Pavement Marking Details	N/A	Preliminary	Updated	Final
Airfield Electrical General Notes, Legend, and Abbreviations	N/A	Preliminary	Final	Final
Airfield Electrical Demolition Plans	N/A	Preliminary	Final	Final
Airfield Lighting Plans	Preliminary	Updated	Final	Final
Airfield Signage Plans	Preliminary	Updated	Final	Final
Airfield Signage Schedule	N/A	Preliminary	Final	Final
Airfield Circuitry Plans	Preliminary	Updated	Final	Final
Ductbank Layout and Details	Preliminary	Updated	Final	Final
Airfield Lighting and Signage Details	N/A	Preliminary	Updated	Final
Miscellaneous Electrical Details	N/A	Preliminary	Updated	Final
Vault and Circuiting Schematics	N/A	Preliminary	Updated	Final

Deliverables:

- Provide plans, Construction Documents, and certifications for the CITY to submit to the FAA for approval and authorization to advertise for bids.
- Plan sets (11" x 17") – Five (5) sets or PDF files as required
- Plan set (electronic, including plot files) – One set
- Bid Documents (electronic) – One Set
- Final Engineering Report – Five (5) copies
- Opinion of Probable Construction Cost – Five (5) copies

TASK 5 – BIDDING ASSISTANCE PHASE

It is anticipated this will be a publicly advertised project. CONSULTANT will assist the client during the bidding phase by performing the following services:

1. Incorporate final comments into completed documents.
2. Assemble and forward construction documents and technical specifications to the CITY in support of the bid process.

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3. Prepare for and attend one (1) pre-bid conference.
 4. Prepare meeting minutes from the pre-bid conference.
 5. Respond in writing to reasonable Contractor questions.
 6. Prepare addenda if necessary.
 7. Review the qualifications of the low bidder and provide written report to CITY.

Deliverables:

- Provide one (1) set of original construction plans to the City for reproduction of bid documents
- Provide one (1) set of original technical specifications to the City for reproduction of bid documents
- Provide one (1) set of original bid forms to the City for reproduction of bid documents
- Pre-bid conference meeting minutes
- Award recommendation report

CONSULTANT will prepare the permit applications and supporting data, coordinate CITY signatures and submit on behalf of the CITY. CONSULTANT will respond to reasonable requests for information in support of obtaining these permits. If the permit agencies require off-site mitigation or unusual data gathering, these services are not included in this scope. Examples of these services include, but are not limited to:

- Offsite tree mitigation
- Relocation of potable water wells
- Ground water testing and evaluation
- Large modifications to the Master Drainage Plan for the Airpark

TASK 6 – PERMITTING ASSISTANCE

CONSULTANT will coordinate applications for the following anticipated permits:

- City of Pompano Beach Building Inspections Division
 - Dry Run Mechanical and Electrical Building Permits for the modifications to the electrical vault
- Broward County Environmental Protection and Growth Management Department
 - Surface Water Management License
- South Florida Water Management District (SFWMD)
 - Environmental Resources Permit (ERP) Major Modification

CONSULTANT will prepare the permit applications and supporting data, coordinate CITY signatures and submit on behalf of the CITY. CONSULTANT will respond to reasonable requests for information in support of obtaining these permits. If the permit agencies require off-site mitigation or unusual data gathering, these services are not included in this scope. Examples of these services include, but are not limited to:

- Offsite tree mitigation
- Relocation of potable water wells
- Ground water testing and evaluation
- Large modifications to the Master Drainage Plan for the Airpark

TASK 7 – SUBCONSULTANT SERVICES AND EXPENSES

This task is designated for subconsultant services and direct expenses within this project, as described below.

Expenses

CONSULTANT anticipates minor expenses associated with travel for field investigation work, printing for milestone submittals, and permit applications, up to the amount provided in the contract. Expenses exceeding the contract amount will be paid directly by the CITY.

KEITH & ASSOCIATES, INC.

CONSULTANT shall, through its sub-consultant, Keith & Associates, Inc., provide subsurface utility engineering locate services and supporting deliverables as detailed in its attached subconsultant agreement.

SUPPORT TO BE PROVIDED BY THE CITY

The following is a summary of the support needed from the CITY to complete this project:

1. Provide fleet mix used for the most recent pavement design and advise if any changes are needed.
2. Pay or reimburse for necessary utility and permitting fees in excess of the project budget
3. Provide access and escort to the site for field services
4. Provide milestone review comments within 2 days of receipt
5. Incorporation of information into “Front End” documents for bidding.

ASSUMPTIONS

1. Field work will be performed by HDR staff on foot for one daytime weekday mobilization. PMP will provide vehicle escort for work within the movement area.
2. Design and construction funding is anticipated to be from the Federal Aviation Administration (FAA)
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.
4. 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.
5. Assume that the overall length of Runway 10-28 is not changing and therefore, the
 - a. existing PAPIs will remain in the current location.
6. Assume that the wind cone is currently located outside of the RSA and relocation
 - a. is not included.
7. Assume that existing regulators have sufficient capacity for expansion.

COMPENSATION

CONSULTANT will accomplish the services outlined in this Scope of Services for the lump sum fee of **\$170,895.00**. Billings will be monthly based on the progress of the tasks.

The following tasks represents the lump sum fee amount for reference:

Table 2 – Fee Breakdown

PROJECT TASKS	FEE
Task 1 - Conceptual Design Phase (30%)	\$13,595.00
Task 2 - Preliminary Design Phase (60%)	\$31,290.00
Task 3 - Design Development Phase (90%)	\$46,095.00
Task 4 - Construction Documents Preparation Phase (Bid Documents)	\$49,388.00
Task 5 - Bidding Assistance Phase	\$12,915.00
Task 6 - Permitting Assistance	\$13,612.00
Task 7 – Expenses and Subconsultants	--
7.1 Subconsultant Keith	\$4,000.00
Total:	\$170,895.00

SCHEDULE

CONSULTANT will follow the schedule shown below in Table 3.

Table 3 – Project Schedule

PROJECT ACTIVITY	COMPLETION DATES
Design Notice to Proceed	November 21, 2024
Conceptual Design Phase (30%)	January 12, 2025
Design Development Design Phase (60% Design)	February 14, 2025
Design Development Phase (90%)	March 10, 2025
Construction Documents Preparation Phase (Bid Documents)	April 8, 2025
Bid Documents	April 14, 2025
Advertisement for Bids	April 29, 2025
Bid Opening	May 30, 2025
FAA Grant Application Submittal to ADO	June 9, 2025

SERVICES NOT PROVIDED

Services not included in this scope of work includes:

- Construction Phase Services
- Wildlife permitting and relocation (if required, will be performed under a future construction services task)
- Airspace obstruction mitigation
- Airport GIS survey
- Relocation of potable water wells
- Ground water testing and evaluation
- Large modifications to the Master Drainage Plan for the Airpark
- Design of facilities to serve the adjacent municipal golf course
- Replacement/modification to existing lighting control system.
- Modifications to FAA NAVAIDs and/or coordination with FAA for flight checks.

LABOR TASKS		Project Manager	Sr. Engineer	Staff Engineer	Sr. Engineering Intern	Sr. Engineering Intern	Labor Subtotals	Task Total
	<i>Contract Rate</i>	\$258.00	\$246.00	\$205.00	\$115.00	\$115.00		
Task 1	Conceptual Design Phase (30% Design)							
	Construction phasing Schedule						0	
	Grant Support and Regular Status Updates						0	
	Site Visit						0	
	Stakeholder Meeting						0	
	Prepare base maps for the project.						0	
	Prepare conceptual typical section based on the geotechnical testing results.						0	
	Prepare a grading concept, assuming that profile and transverse slope corrections may be necessary.			4	10		14	
	Prepare conceptual project layout plans.			4	5		9	
	Prepare a project safety plan showing contractor access, haul routes, and contractor staging areas.			4	5		9	
	Prepare conceptual maintenance of traffic plans.			4	5		9	
	Study of well house west of RW 10 threshold			5			5	
	Coordination with electrical designer				5		5	
	Prepare a draft outline of the Engineering Report.						0	
	Prepare a draft outline of technical specifications for this project.						0	
	Prepare an opinion of probable construction cost based on the 30% plans.	2		4	5		11	
	Perform Quality Control review.	6					6	
	Conduct one (1) design review and coordination meeting with the City.	6					6	
	Review and respond to concept coordination review meeting issues.	1			5		6	
	Task 1 - Subtotal Hours:	15	0	25	40	0	80	
	Task 1 - Subtotal Estimated Labor Cost:	\$3,870.00	\$0.00	\$5,125.00	\$4,600.00	\$0.00	\$13,595.00	\$13,595.00
Task 2	Preliminary Design Phase (60% Design)							
	Develop proposed profiles for the pavements.				25		25	
	Develop proposed cross sections for the pavements and slopes for tie-in to existing grade.				80		80	
	Prepare preliminary pavement marking plans.						0	
	Prepare preliminary opinion of probable construction cost.						0	
	Prepare preliminary construction safety plans with details and notes.				55		55	
	Coordination with electrical designer						0	
	Develop construction plans to 60% completion.			18	45	35	98	
	Prepare preliminary Engineering Report.						0	
	Prepare preliminary technical specifications.						0	
	Perform Quality Control review.						0	
	Conduct up to one (1) design review and coordination review meeting with the CITY.						0	
	Review and respond to issues raised at the preliminary design meeting.						0	
	Task 2 - Subtotal Hours:	0	0	18	205	35	258	
	Task 2 - Subtotal Estimated Labor Cost:	\$0.00	\$0.00	\$3,690.00	\$23,575.00	\$4,025.00	\$31,290.00	\$31,290.00
Task 3	Design Development Phase (90% Design)							
	Finalize the project layout plans.			45			45	
	Finalize the paving, grading, and drainage plans.			30			30	
	Finalize the typical pavement sections and details.			10	11		21	
	Finalize phasing plans and notes.			24	8	20	52	
	Finalize construction safety plans with details and notes.			18	2	20	40	
	Develop pavement marking plans.				8	4	12	
	Coordination with electrical designer				6		6	
	Conduct a plan-in-hand field review of the construction plans.				4		4	
	Prepare a 90% opinion of probable cost.				14		14	
	Update the technical specifications, incorporate review comments previously received.	1			10		11	
	Calculate anticipated construction time to be incorporated into the bid documents.	1					1	
	Update the engineering report, incorporate review comments previously received.	2			2		4	
	Provide Quality Control review of the services being provided.	2			26		28	
	Conduct one (1) design review and coordination meeting with the CITY.	2			3		5	
	Respond to issues received in the design review meeting.	1			0		1	
	Prepare a Construction Safety and Phasing Plan (CSPP)	1			14		15	
	Task 3 - Subtotal Hours:	10	0	127	108	44	289	
	Task 3 - Subtotal Estimated Labor Cost:	\$2,580.00	\$0.00	\$26,035.00	\$12,420.00	\$5,060.00	\$46,095.00	\$46,095.00
Task 4	Construction Document Preparation Phase (Bidding Documents)							
	Finalize design drawings.			66			66	
	Finalize technical specifications.			10	10		20	
	Finalize engineering report.			12			12	
	Develop Bid Forms and Front End Specs.			42			42	
	Prepare supplemental provisions.			2			2	
	Construction Grant Support	36		56			92	
	Prepare FAA airspace checklist.			2			2	
	Task 4 - Subtotal Hours:	36	0	190	10	0	236	
	Task 4 - Subtotal Estimated Labor Cost:	\$9,288.00	\$0.00	\$38,950.00	\$1,150.00	\$0.00	\$49,388.00	\$49,388.00

LABOR TASKS		Project Manager	Sr. Engineer	Staff Engineer	Sr. Engineering Intern	Sr. Engineering Intern	Labor Subtotals	Task Total
	Contract Rate	\$258.00	\$246.00	\$205.00	\$115.00	\$115.00		
Task 5	Bidding Assistance Phase							
	Incorporate final comments into completed documents.			18			18	
	Assemble and forward construction documents and technical specifications to the CITY in support of the bid process.						0	
	Prepare for and attend one (1) pre-bid conference.						0	
	Prepare meeting minutes from the pre-bid conference.						0	
	Respond in writing to reasonable Contractor questions.						0	
	Prepare addenda if necessary.			45			45	
	Review the qualifications of the low bidder and provide written report to CITY.						0	
	Task 5 - Subtotal Hours:	0	0	63	0	0	63	
	Task 5 - Subtotal Estimated Labor Cost:	\$0.00	\$0.00	\$12,915.00	\$0.00	\$0.00	\$12,915.00	\$12,915.00
Task 6	Permitting Assistance							
	Surface Water Management License- Broward County		11	20			31	
	Environmental Resources Permit- Broward County on behalf of South Florida Water Management District (SFWMD).		11	20			31	
	Task 6 - Subtotal Hours:	0	22	40	0	0	62	
	Task 6 - Subtotal Estimated Labor Cost:	\$0.00	\$5,412.00	\$8,200.00	\$0.00	\$0.00	\$13,612.00	\$13,612.00
	Tasks 1 to 6 - Subtotal Hours:	61	22	463	363	79	988	
	Tasks 1 to 6 - Subtotal Estimated Labor Cost:	\$15,738.00	\$5,412.00	\$94,915.00	\$41,745.00	\$9,085.00	\$166,895.00	
TASK 1-6 TOTAL:								\$166,895.00
Task 7.1	Expenses and Subconsultants							
	Subconsultant Keith							\$4,000.00
TASK 7 TOTAL:								\$4,000.00
ESTIMATED PROJECT TOTAL:								\$170,895.00

MASTER SUBCONSULTANT AGREEMENT ATTACHMENT B

“TASK ORDER”

This Task Order dated _____, 20__, pertains to an Agreement by and between Keith and Associates, Inc., (“Subconsultant”), and HDR Engineering, Inc. (“HDR”), dated February 5, 2024, (“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: 04

PROJECT NAME: PMP Runway 10-28 Rehabilitation and Correction of Expanses of Pavement

PART 1.0 PROJECT DESCRIPTION:

This task order consists of design and bid phase services for the rehabilitation of Runway 10-28 and correction of expanses of pavement on the Runway 10 end at Pompano Beach Airpark (PMP) (Exhibit A – Location Map). Rehabilitation of associated electrical, signage, markings, and grading will also be required. Project funding may include federal and state sources. HDR requests for subconsultant to provide support services to design all or part of the proposed improvements described above.

Subconsultant shall support HDR by conducting subsurface utility engineering (SUE) for the preparation of engineering design documents.

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

1. Subsurface Utility Engineering (SUE) Services
 - a. KEITH will follow ASCE Standard 38-02 – “Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data” during the field and office operations for this project. The quality levels discussed below are defined within the standard. KEITH is to provide professional services associated with designation of existing subsurface utilities. KEITH will designate all known tone able and non-tone able utilities within a 10’ radius of approximately 25 soil boring locations prior to environmental drilling. Gravity systems, service laterals, irrigation or overhead facilities are not included in this investigation.
 - b. Map underground features using geophysical methods within a 10’ radius of geotechnical testing locations.
 - c. Obtain surface elevations at soil boring locations.
 - d. Depict test locations and underground features on the topographic survey
2. Horizontal Designation Services
 - a. KEITH will horizontally mark any known tone able and non-tone able underground utilities that are represented on as-built plans, above ground appurtenances, and other miscellaneous utility records (to be provided by CLIENT). Conductive utilities will be marked on the surface utilizing active geophysical prospecting techniques in conjunction with electromagnetic equipment utilizing passive radio and audio

frequencies. Known non-conductive utilities and/or structures will be marked on the surface utilizing Ground Penetrating Radar (GPR), above ground features, professional judgment, utility plats and/or as-builts. This task does not include identifying gravity systems, service laterals, irrigation, or overhead facilities unless specifically requested by the CLIENT and included in the scope of services.

Subsurface Utility Engineering Conditions and Understandings

CLIENT is required by law to contract Sunshine State One Call of Florida forty-eight (48) hours in advance of any CLIENT excavation. KEITH will not access confined spaces. If confined spaces need to be accessed for locating purposes, then the client will be notified, and further arrangements will be made for said access. Additional fees may be applicable. If additional MOT is required beyond the capability of KEITHS standard MOT operations, KEITH will notify the client. Additional requests outside the scope of services, when requested by client and/or client's representative, will be invoiced on an hourly basis. This proposal assumes site access is available, and work can be performed between the hours of 7:30 AM and 5:00 PM Monday through Friday.

PART 3.0 ADDITIONAL SERVICES, NOT PART OF BASIC SERVICES:

PART 4.0 HDR'S RESPONSIBILITIES: Project management

PART 5.0 PERIODS OF SERVICE: Per HDR's Table 3 - Project Schedule

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 **\$4,000.00**. Subconsultant acknowledges that the lump sum amount is not a guarantee of minimum work or payment. Subconsultant shall notify HDR when it has reached 90% of the LS amount. A detailed fee schedule is shown in Exhibit B
- Reimbursable Expenses: None

PART 7.0 EXECUTED PRIME AGREEMENT BETWEEN OWNER AND HDR
ATTACHED HERETO: Agreement provided in Exhibit E

PART 8.0 OTHER:

Support to be provided by the owner:

- Provide airfield access
- Assist with location of utilities
- Provide any relevant as-built information

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

Keith and Associates, Inc.

“Subconsultant”

BY:

NAME:

Sam Hall, PSM, PLS

TITLE:

Vice President

ADDRESS:

301 East Atlantic Blvd.
Pompano Beach, FL
33060

HDR ENGINEERING, INC.

“HDR”

BY:

NAME:

TITLE:

ADDRESS:

Exhibit A Location Map



Exhibit B
Subconsultant Fee Schedule

Our Project/Proposal Number		12863.03 CA 1				Task Subtotals
Proposal Date		1/3/2025	KEITH			
Tasks			Chief Surveyor	Utility Designation / GPR	KEITH Subtotal	
No.	Description		\$200.00	\$225.00	-	
201	Horizontal Designation		2	16	\$ 4,000.00	\$ 4,000.00
Personnel Hours			2	16	-	-
Personnel Cost			\$ 400.00	\$ 3,600.00	\$ 4,000.00	\$ 4,000.00
Sub Totals						
Personnel Subtotal		\$ 4,000.00				
Miscellaneous Expenses						
Direct Expenses		\$ -				
GRAND TOTAL		\$ 4,000.00				