

Michael Baker

INTERNATIONAL

**CITY OF HAMMOND
HAMMOND NORTHSORE REGIONAL AIRPORT
RUNWAY 18-36 REHABILITATION (DESIGN)**

Work Authorization for Professional Services

TBD
(Project Identification No.)

14
(Work Authorization No.)

It is agreed to undertake the following work in accordance with the provisions of our Master Agreement for Professional Services dated February 5th, 2019.

Description of Assignment:

This assignment includes the Design for the rehabilitation of Runway 18-36 at the Hammond Northshore Regional Airport. Scope of work consist of the following: review of the existing Preliminary Engineering Report, evaluation of two additional rehabilitation methods, selection of preferred method, design of appropriate repair method, development of construction documents and construction cost estimate. Any work not specifically listed shall be negotiated separately.

The fee proposal was developed using an asphalt overlay rehabilitation method as the basis of design.

Basis of Compensation:

Basic Services:

The Owner shall compensate the Consultant for Basic Services on a lump sum basis as outlined in Attachment "A" and in the following amounts:

Preliminary Design Phase	\$36,061.85
Final Design Phase	\$163,229.13
TOTAL ALL PHASES	\$199,290.98

Special Services:

- a) **Geotechnical Investigation Services:** As compensation for performing Geotechnical Investigation Services, the OWNER shall pay the CONSULTANT the direct cost of the sub-consultant (Terracon) Fifteen Thousand and 00/100 Dollars (\$15,000) plus an administration fee in the amount of Seven Hundred Fifty and 00/100 Dollars (\$750). The maximum not-to-exceed limit for the Geotechnical Investigation Services equals **Fifteen Thousand Seven Hundred Fifty and 00/100 Dollars (\$15,750.00)**.

- b) Survey Services: As compensation for performing Survey Services, the OWNER shall pay the CONSULTANT the direct cost of the sub-consultant (Andrew Faller Surveying) of Fifteen Thousand and 00/100 Dollars (\$15,000) plus an administration fee in the amount of Seven Hundred Fifty and 00/100 Dollars (\$750). The maximum not-to-exceed limit for the Geotechnical Investigation Services equals **Fifteen Thousand Seven Hundred Fifty and 00/100 Dollars (\$15,750.00)**.

c)

The Total Estimated Cost for Professional Services related to this Work Authorization including Basic Services and Special Services for the design of the proposes airfield pavement repairs is \$230,790.98

Agreed as to scope of services, time schedule, and budget:

For: **City of Hammond** /
Hammond Northshore Regional Airport

For: **Michael Baker International, Inc.**

Date: _____

Date: _____

Attachment: Exhibit A – Scope of Work

ATTACHMENT A

HAMMOND NORTHSORE REGIONAL AIRPORT
 FAA AIP No. TBD
 RUNWAY 18-36 REHABILITATION

MAN HOUR ESTIMATE

Preliminary Design Services

<u>Item / Task Description</u>	<u>Principal</u>	<u>Project Manager</u>	<u>Engineer</u>	<u>Designer</u>	<u>Admin Assistant</u>
Initial Coordination with Owner, State, and FAA	8	8			
Review existing Preliminary Engineering Report	2	8	8		
Develop and Study Additional Rehabilitation Methods (2 additional methods)	2	36	40		
Prepare Construction Cost Estimates	1	16	16		
Prepare Recommendations and Review with Owner, State, and FAA		4	12		8
Prepare and Conduct Pre-design Meeting		2	4		2
Totals:	13	74	80	0	10

ATTACHMENT A

HAMMOND NORTHSORE REGIONAL AIRPORT
 FAA AIP No. TBD
 RUNWAY 18-36 REHABILITATION

MAN HOUR ESTIMATE

Final Design Services

<u>Item / Task Description</u>	<u>Principal</u>	<u>Project Manager</u>	<u>Engineer</u>	<u>Designer</u>	<u>Admin Assistant</u>
Continued Coordination with Owner, State, and FAA	16	16			
Final Plans (See Detailed Listing of Sheets)	4	113	276	327	0
Develop Quantities and Construction Cost Estimate		8	16	16	
Prepare "Front End" Documents (Notice, Instructions to Bidders, Bid Forms, Contract Forms, General Provisions, Supplementary Conditions, General Specifications)	2	16	12		24
Prepare Technical Specifications		24	36		40
Prepare & Submit FAA 7460 Form, including Supporting Documents		2		2	
Prepare & Submit Project Safety Plans (OE/AAA System), including Supporting Documents		2		2	
Prepare and submit 90% Submittal Package		2	8	8	8
Prepare for & Conduct 90% Plan Review meeting		4	4		
Prepare Engineer's Design Report, including Supporting Exhibits					
Internal Quality Review		12			
Revise, Print, Proof, and Seal Final Version of Bidding Documents, Specs, Plans, & Cost Estimate		4	4	8	8
Totals:	22	203	356	363	80

ATTACHMENT A

**HAMMOND NORTHSORE REGIONAL AIRPORT
FAA AIP No. TBD
RUNWAY 18-36 REHABILITATION**

MAN HOUR ESTIMATE

Listing of Final Design Plans

Drawing Title	No. of Dwgs.	Principal	Project Manager	Engineer	Designer	Admin Assistant
Cover Sheet	1			1	2	
Summary of Quantities and General Notes	2		1	2	2	
Construction Phasing and Safety Plans	2	2	8	16	16	
Construction Phasing and Safety Plans - Details	1		1	4	8	
Project Layout	1		2	4	8	
Geometric Layout and Survey Control	2	1	16	24	24	
Typical Sections	2	1	4	8	16	
Demolition Plans	3		2	6	16	
Grading Plan	3		8	24	24	
Plan and Profile Sheets	3		12	36	48	
Intersection Transition Details	2		8	24	24	
Pavement Grooving Plan	3		3	6	12	
Pavement Grooving Details	1		2	4	4	
Pavement Marking Plan	3		3	6	12	
Pavement Marking Details	1		2	4	4	
Electrical Plan and Details	4		16	32	32	
Runway and Runway Safety Area Cross Sections	25		25	75	75	
Totals:	59	4	113	276	327	0

ATTACHMENT A
**COST BREAKDOWN
 FOR
 HAMMOND NORTHSORE REGIONAL AIRPORT
 FAA AIP No. TBD
 RUNWAY 18-36 REHABILITATION**
BASIC SERVICES

	PRELIMINARY DESIGN		FINAL DESIGN		BIDDING		CONSTRUCTION ADMINISTRATION		TOTAL	
DIRECT LABOR CLASSIFICATION	HOURS	LABOR	HOURS	LABOR	HOURS	LABOR	HOURS	LABOR	HOURS	
Principal	\$95.72	13	\$1,244.36	22	\$2,105.84	0	\$0.00	0	\$0.00	35
Sr. Project Manager	\$76.44	74	\$5,656.56	203	\$15,517.32	0	\$0.00	0	\$0.00	277
Engineer	\$64.14	80	\$5,131.20	356	\$22,833.84	0	\$0.00	0	\$0.00	436
Designer	\$35.36	0	\$0.00	363	\$12,835.68	0	\$0.00	0	\$0.00	363
Admin Assistant	\$36.32	10	\$363.20	80	\$2,905.60	0	\$0.00	0	\$0.00	90
TOTAL DIRECT LABOR			\$12,395.32		\$56,198.28		\$0.00		\$0.00	
AUDITED OVERHEAD	152.35%		\$18,884.27		\$85,618.08		\$0.00		\$0.00	
DIRECT EXPENSES										
Mileage (72 miles@\$0.56/mile)	Anticipated trips	1	\$40.32	1	\$40.32	0	\$0.00	0	\$0.00	\$80.64
Lodging (\$100/day)	Anticipated days	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
Per Diem (\$12.75/day)	Anticipated days	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	\$0.00
Reproduction			\$50.00		\$100.00		\$0.00		\$0.00	\$150.00
Postage			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Equipment Rental / Other			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Subconsultant(s)										
Geotech (RSA Grading/Drainage)			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
Admin Fee @ 5%			\$0.00		\$0.00		\$0.00		\$0.00	\$0.00
SUBTOTAL EXPENSES			\$90.32		\$140.32		\$0.00		\$0.00	\$230.64
SUBTOTAL COST			\$31,389.91		\$141,958.68		\$0.00		\$0.00	\$173,326.59
PROFIT	15%		\$4,691.94		\$21,272.45		\$0.00		\$0.00	\$25,964.39
TOTAL PROJECT COSTS			\$36,081.85		\$163,229.13		\$0.00		\$0.00	\$199,290.98

ATTACHMENT A
COST BREAKDOWN
FOR
HAMMOND NORTHSORE REGIONAL AIRPORT
FAA AIP No. TBD
RUNWAY 18-36 REHABILITATION

SPECIAL SERVICES

		SURVEY		GEOTECHNICAL INVESTIGATION AND TESTING		TOTAL
CLASSIFICATION		HOURS	LABOR	HOURS	LABOR	HOURS
Principal	\$95.72	0	\$0.00	0	\$0.00	0
Sr. Project Manager	\$76.44	0	\$0.00	0	\$0.00	0
Engineer	\$35.36	0	\$0.00	0	\$0.00	0
Designer	\$36.32	0	\$0.00	0	\$0.00	0
Admin Assistant	\$34.18	0	\$0.00	0	\$0.00	0
TOTAL DIRECT LABOR			\$0.00		\$0.00	
AUDITED OVERHEAD	152.35%		\$0.00		\$0.00	
DIRECT EXPENSES						
Mileage (72 miles@\$0.56/mile)	Anticipated trips	0	\$0.00		\$0.00	\$0.00
Lodging (\$100/day)	Anticipated days	0	\$0.00		\$0.00	\$0.00
Per Diem (\$12.75/day)	Anticipated days	0	\$0.00		\$0.00	\$0.00
Reproduction			\$0.00		\$0.00	\$0.00
Postage			\$0.00		\$0.00	\$0.00
Equipment Rental / Other			\$0.00		\$0.00	\$0.00
Subconsultant(s)						
Survey Subconsultant			\$15,000.00		\$15,000.00	\$30,000.00
Admin Fee @ 5%			\$750.00		\$750.00	\$1,500.00
SUBTOTAL EXPENSES			\$15,750.00		\$15,750.00	\$31,500.00
SUBTOTAL COST			\$15,750.00		\$15,750.00	\$31,500.00
PROFIT	10%		\$0.00		\$0.00	\$0.00
TOTAL PROJECT COSTS			\$15,750.00		\$15,750.00	\$31,500.00

**Louisiana Department of Transportation and Development
PORTLAND CEMENT CONCRETE MIX DESIGN**

DOTD 03-22-0735
EXPIRED 6/15/2021

EXPIRED 6/15/2021

Project No H.011500.6					Plant PS00001880 - Port Aggregates, Inc. - Lake Charles		
Mix Design # EXPIRED 6/15/2021 01880-0017 (A1S)							
Material 0901M00350 - PCC Structural Class A1							
Material Use Structural							
Mixing Method Truck Mixer					Precast Mix: No		
Slip Form: No			Blended Aggregate: No		High Early: No		
Material Type	Amount	Spec Grav	Absrp.	Volume	Note	Source Code - Name	Material Code - Description
Cement	300 lb	3.15	--	1.53		APS00010220 - Holcim (US) Inc. St. Genevieve Plant - Bloor	1001M00040 - Port Cmt Type II - Holcim St. Genevieve
Slag	300 lb	2.88	--	1.67		APS00000160 - Holcim (US) Inc. - Theodore, AL	1018M00900 - NewCem GGBFS Grd. 100 - Holcim Theod
Coarse	1600 lb	2.380	3.7	10.77		APS00007350 - Vulcan Materials Co-Cancun, MEX	1003M04390 - Agg, Crushed Coarse for PCC, Size 57M
Fine	1210 lb	2.620	0.5	7.4		APS00015140 - Arcosa Aggregates - Plant LA 1343 - DeR	1003M03010 - Agg, Sand, Concrete
Water Red(Ret)	36 oz	--	--	0	WR(Ret)	APS00002830 - Sika Chemical Corporation - Lyndhurst, N. 1011M00020 - SikaTard 440 (WRSR) - Sika	
High Range Water	16 oz	--	--	0	HRWR(Norm)	APS00002830 - Sika Chemical Corporation - Lyndhurst, N. 1011M00070 - Viscocrete 4100	
Air Entrain	1.5 oz	--	--	0		APS00002830 - Sika Chemical Corporation - Lyndhurst, N. 1011M00040 - SIKAIR	
Water	32 gal			4.28			
Air	5 %			1.35			
Total Volume				27.00			
Notes Fines meet concrete sand. Coarse meets Grade 57M.							
	Mix Design	Spec Limit					
Yield	27.00 cuft	27.00 cuft					
Air	5.0 %	2.0 - 7.0					
Total Cementitious	600 lbs/CY						
Cement Factor	6.4 Bag/CY						
W/C Ratio	5.1 Gal/Bag						
W/C Ratio by Weight	0.45	0.45 Max					
Slag % by Weight	50.0 %						
Blend Type	Binary						
			Submitted to District _____				
			Submitted By _____				Date Submitted _____
			Checked By _____				Date Checked _____
			Approved By _____				Date Approved _____



ANDREW FALLER
SURVEYING

Bobby Odom
Michael Baker International

Re: Request for Survey
Hammond Runway Rehab
Hammond Airport

Dear Mr. Odom,

I will provide a survey that would satisfy the requirements set forth in your request for proposal and email dated 6/16/22. This estimate is based on have the runway being shut down while the survey work is being preformed.

The approximate fee for this Survey would be **(\$15,000.00)**.

The work will be invoiced at the following rates:

\$250 per/hr for field work
\$125 per/hr for office work

I look forward to working with you on this project. If I can be of any further assistance, please feel free to contact me.

Sincerely,

Andrew Faller, PLS
Andrew Faller Surveying, LLC.

