



## Spangler Engineering, LLC

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T. C. Spangler, Jr., P.E.  
Webb M. Anderson, P.E.  
Jay C. Pittman, P.E.

### MEMORANDUM

To: Honorable Pete Panepinto, Mayor

From: T. C. Spangler, Jr., P.E. 

RE: Amendment No. 4 to Owner-Engineer Agreement  
Hammond Northshore Regional Airport  
Taxiway C – Emergency Drainage & Pavement Repairs

Date: 7 November 2018

1. Attached herewith for your review and approval are the following:
  - a. “Amendment No. 4 to Owner-Engineer Agreement” (2 partially executed originals).
  - b. Spreadsheet upon which the “Lump Sum” fee proposal is based.
  - c. “Taxiway C – Emergency Drainage & Pavement Repairs” Project Budget reflecting the lump sum fees for Basic Engineering services and for Resident Project Representative services.
2. We used the format recommended by FAA in the preparation of the spreadsheet, in particular, FAA Advisory Circular 150/5100-14D.
3. In comparing the “Lump Sum Fee” proposed with the EJCDC percentage of construction fee curve, the Basic Engineering fee for a project with a \$139,100.00 construction budget would be  $11.68\% \times \$139,100.00 = \$16,246.88$ . Our lump sum fee proposal is **\$16,035.00**.
4. In comparing the “Lump Sum Fee” proposed with the EJCDC percentage of construction fee curve, the RPR services fee for a project with \$650,000.00 construction budget would be  $3.9\% \times \$139,100.00 = \$5,424.90$ . Our lump fee proposal is **\$4,900.00**.
5. If you deem it acceptable, please sign the two (2) attached partially executed amendments, and I will see that they are forwarded to the LaDOTD Aviation Section Project Manager. The “Project Budget” will accompany our submittal to LaDOTD.
6. Please contact me if there are any comments or questions.

This is **EXHIBIT K**, consisting of 2 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated March 21, 2012.

**AMENDMENT TO OWNER-ENGINEER AGREEMENT**  
**Amendment No. Four (4)**

1. *Background Data:*

- a. Effective Date of Owner-Engineer Agreement: March 21, 2012
- b. Owner: City of Hammond, LA
- c. Engineer: Spangler Engineering, LLC  
Hammond Northshore Regional Airport
- d. Project: **Taxiway C – Emergency Drainage & Pavement Repairs**

2. *Description of Modifications:*

- a. Portions of the Agreement are modified as follows:
  - 1. Article C2.01 “Compensation for Basic Services”: Change to read **“Lump Sum Fee Method of Payment”**.
  - 2. Article C2.01.B.1 through C2.01.B.5.: Delete original paragraphs and substitute the following:

“B. Owner shall pay Engineer for Basic Services for “Taxiway C – Emergency Drainage & Pavement Repairs” set forth in Exhibit A, except for services of Engineer’s Resident Project Representative, if any, as follows:

- 1. A Lump Sum amount of **\$16,035.00** based on the following estimated distribution of compensation:

<i>Basic Services Milestone</i>	Milestone Payment		Cumulative Payment	
	%	\$	%	\$
Preliminary Design Phase	50%	\$ 8,017.50	50%	\$ 8,017.50
Final Design Phase	20%	3,207.00	70%	11,224.50
Bidding & Award Phase	10%	1,603.50	80%	12,828.00
Construction Phase	15%	2,405.25	95%	15,233.25
Project Closeout	5%	801.75	100%	16,035.00

- 2. Engineer may alter the distribution of compensation between individual phases noted herein to be consistent with services actually rendered, but shall not exceed the total Lump Sum amount unless approved in writing by the Owner.
- 3. The Lump Sum includes compensation for Engineer’s services and services of Engineer’s Consultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor, overhead, profit, and Reimbursable Expenses.
- 4. The portion of the Lump Sum amount billed for Engineer’s services will be based upon Engineer’s estimate of the percentage of the total services actually completed during the billing period.”

2. *Description of Modifications - continued:*

3. Article C2.03 “Compensation for Resident Project Representative”: Change to read “**Lump Sum Fee** Method of Payment”.
4. Article C2.03.D.1.: Delete original paragraph C2.03.D.1. and change to read as follows: “Owner shall pay Engineer for services of Engineer’s Resident Project Representative under Paragraph A1.05 of Exhibit A of the Agreement a Lump Sum Fee of **\$4,900.00** payable monthly in amounts equal to the percentage of completed construction.”

OWNER:

ENGINEER:

CITY of HAMMOND, LA

SPANGLER ENGINEERING, LLC

By: \_\_\_\_\_

By: 

Title: Pete Panepinto, Mayor

Title: T. C. Spangler, Jr., P.E., Managing Member

Date Signed: \_\_\_\_\_

Date Signed: 7 NOV. 2018

*The End*

*Amendment No. 4 to Owner-Engineer Agreement*

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**AMENDMENT TO OWNER-ENGINEER AGREEMENT**  
**Amendment No. Four (4)**

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  - 2. Article C2.01.B.1 through C2.01.B.5.: Delete original paragraphs and substitute the following:

“B. Owner shall pay Engineer for Basic Services for “Taxiway C – Emergency Drainage & Pavement Repairs” set forth in Exhibit A, except for services of Engineer’s Resident Project Representative, if any, as follows:

- 1. A Lump Sum amount of \$16,035.00 based on the following estimated distribution of compensation:

<i>Basic Services Milestone</i>	Milestone Payment		Cumulative Payment	
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- 3. The Lump Sum includes compensation for Engineer’s services and services of Engineer’s Consultants, if any. Appropriate amounts have been incorporated in the Lump Sum to account for labor, overhead, profit, and Reimbursable Expenses.
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OWNER:

ENGINEER:

CITY of HAMMOND, LA

SPANGLER ENGINEERING, LLC

By: \_\_\_\_\_

By: 

Title: Pete Panepinto, Mayor

Title: T. C. Spangler, Jr., P.E., Managing Member

Date Signed: \_\_\_\_\_

Date Signed: 7 Nov. 2018

*The End*

*Amendment No. 4 to Owner-Engineer Agreement*

Airport: **Hammond Northshore Regional Airport**

Date: **7-Nov-2018**

Project: **Taxiway C - Emergency Drainage & Pavement Repairs**

TASKS	EMPLOYEE CLASSIFICATION					
	Principal	Sr. Des. Engr.	CAD Drafts II	RPR	Survey Crew	
	Spangler	*	**	G. Mosher	Field	Ofc
HOURS						
1. Project Scoping Meeting	1.0	1.0	0.0	1.0	0.0	0.0
2. Prepare Prelim. Project Budget	1.0	0.0	1.0	0.0	0.0	0.0
3. Prelim. Plans Preparation	0.0					
a. Title Sheet			0.0			
b. Overall Site Plan	0.0	1.0	1.0			
c. Enlarged site plans			0.0			
d. Topographic Surveys			0.0		0.0	0.0
e. Details	1.0		1.0			
f. Quantity Takeoff	0.0	1.0				
4. Final Plans Preparation	0.0					
a. Title Sheet		0.0	0.0			
b. Overall Site Plan	0.5	2.0	4.0			
c. Enlarged site plans	0.0	0.0	0.0			
d. Topographic Surveys	0.0	0.0	0.0		0.0	0.0
e. Details	1.5	2.0	4.0			
f. Quantity Takeoff	0.5	1.0	0.0			
5. Detailed Constr. Cost Estimate	0.5	1.0		0.0		
6. Specifications & Contract Docs.	6.0	6.0				
7. Construction Administration						
a. Notice to Bidders	0.0	0.5				
b. Pre-Bid Conference	0.0	2.0				
c. Addenda	0.0	1.0				
d. Bid Opening	0.0	1.0				
e. Bid Summary	0.0	2.0				
f. Bid Tabulation	0.5	2.0				
g. Processing Contract Docs.	0.5	3.0				
h. Preconstruction conference	0.0	2.0		1.0		
i. Field staking		1.0		2.0	2.0	1.0
j. Review of shop drawings	0.0	2.0		2.0		
k. Review of testing lab/QC reports	0.0	2.0		2.0		
l. Site visits (enr)	3.0	20.0				
m. Res. Proj. Repr. Observation				45.0	2.0	0.0
n. Partial Pay estimates	0.0	2.0		4.0		
o. Change Orders	0.0	2.0		6.0		
p. Pre-final Inspection/punch list	1.0	3.0		2.0		
q. Final Inspection	0.0	2.0		3.0		
r. Project closeout	0.0	4.0		2.0		
<b>TOTAL HOURS:</b>	17.0	66.5	11.0	70.0	4.0	1.0
<b>HOURLY RATE:</b>	\$ 235.00	\$ 160.00	\$ 75.00	\$ 70.00	\$ 125.00	\$ 75.00
<b>TOTAL COST:***</b>	\$ 3,995.00	\$ 10,640.00	\$ 825.00	\$ 4,900.00	\$ 500.00	\$ 75.00

<b>Direct Nonsalary Expenses:</b>	Total Costs***:	\$ 16,035.00
Travel (0 miles x \$0.41 per mile):	Resident Project Representative:	\$ 4,900.00
Per Diem:	Overhead (included in hourly rates):	\$ -
Reproduction:	Subtotal:	\$ 20,935.00
Testing (paid by Owner):	Total Direct Nonsalary Expenses:	\$ -
Consultants/Additional Services:	<b>TOTAL COST - Basic Engineering:</b>	\$ <b>16,035.00</b>
Other:	<b>TOTAL COST - RPR Fees:</b>	\$ <b>4,900.00</b>
<b>Total Direct Nonsalary Expenses:</b>		\$ -

\*\*\* - Hourly rates include nonsalary expenses, overhead, & profit

\* Jay C. Pittman, P.E.; T. C. Spangler, Jr., P.E.; Webb M. Anderson, P.E.

\*\* M. Henry; Gordon Mosher

City of Hammond - Northshore Regional Airport  
**Taxiway C - Emergency Drainage & Pavement Repairs**  
Project Budget\*

7-Nov-2018

Bid Item	Description	Base Bid		Engineer's Estimate	
		Quantity		Unit Price	Extension
1.	Mobilization	1	EA	\$ 6,000.00	\$ 6,000.00
2.	Install CB (Type VI) over existing 18" RCP	2	EA	5,000.00	10,000.00
3.	Remove/Replace 18" RCP	220	LF	50.00	11,000.00
4.	Remove existing PCC taxiway pvmt. (8" th)	585	SY	25.00	14,625.00
5.	Haul-in/grade/compact BACKFILL (truck measure)	120	CY	20.00	2,400.00
6.	Haul-in/grade/comapct LIMESTONE (Type 610 - trk. meas.)	180	TN	60.00	10,800.00
7.	Misc. Clearing & Sitework	1	EA	1,500.00	1,500.00
8.	Install Flowable Fill	80	CY	150.00	12,000.00
<b>BASE BID: Taxiway C - Emerg. Repairs Cost Estimate [items "1." - "8."]:</b>					<b>\$ 68,325.00</b>

**Additive Alternate No. 1** - for the addition of PCC taxiway pavement (& addl. Limetone):

Bid Item	Description	Alt. No. 1		Engineer's Estimate	
		Quantity		Unit Price	Extension
5A.	Haul-in/grade/compact BACKFILL (truck measure)	40	CY	\$ 20.00	\$ 800.00
6A.	Haul-in/grade LIMESTONE base (4"th.-Type 610)	190	TN	60.00	11,400.00
8A.	Install Flowable Fill	20	CY	150.00	3,000.00
9A.	Install PCC taxiway pavement (8" th. - reinforced)	585	SY	95.00	55,575.00
<b>Add. Alt. 1 BID: Taxiway C - Emerg. Repairs Cost Estimate:</b>					<b>\$ 70,775.00</b>
<b>NET BID Estimate [Base Bid + Add. Alt. No. 1]:</b>					<b>\$ 139,100.00</b>
Construction Contingencies:		<b>4.24%</b>		\$ 139,100	\$ 5,900.00
<b>Taxiway C Emergency Repairs Construction Budget:</b>					<b>\$ 145,000.00</b>
<i>Other costs:</i>					
A. Engineering Design Fees **					\$ 16,035.00
B. Resident Construction Inspection Fees**					4,900.00
C. Surveys					-
D. Testing Lab/QC					3,000.00
E. Miscellaneous Costs					1,065.00
<b>TAXIWAY C EMERGENCY REPAIRS EMERGENCY Budget [Expenditures]:</b>					<b>\$ 170,000.00</b>

\* Scope of work:

- (1) Remove 50'W x 105'L Taxiway C Pavement (75% showing failures)
- (2) Install 2 new catch basins over existing 18" RCP (each side of Taxiway C)
- (3) Remove/replace 220 LF of leaking 18" RCP under Taxiway C
- (4) Install flowable fill above spring line of new 18" RCP to 16" below finish grade
- (5) Install new 8" th Limestone Base under Taxiway C PCC (est. 370 TN)
- (6) Install new 8" th PCC Taxiway C pavement (est. 585 SY)

\*\* Fixed fee per "Amendment No. 4" to Owner-Engineer Agreement