

STATE OF TEXAS                   §  
   §  
 COUNTY OF FORT BEND         §

**FIRST AMENDMENT TO AGREEMENT FOR  
 PROFESSIONAL ENGINEERING SERVICES – DESIGN**

**THIS FIRST AMENDMENT**, is made and entered into by and between Fort Bend County (hereinafter "County"), a body corporate and politic under the laws of the State of Texas, and IDC, Inc., (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services – Design on May 5, 2015, (hereinafter "Agreement") pursuant to SOQ 07-080; and

WHEREAS, the parties desire to amend the Agreement for additional services to be provided and increase the total Maximum Compensation for the completion of such additional services.

**NOW, THEREFORE**, the parties do mutually agree as follows:

1. County shall pay Contractor an additional two hundred twenty-six thousand twenty-five dollars and 33/100 (\$226,025.33) for the additional services to be rendered under the Agreement as described in the proposal attached hereto as Exhibit "A" and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for Services rendered is hereby increased to an amount not to exceed two million three-hundred ninety-one thousand eighty-four dollars and 33/100 (\$2,391,084.33), authorized as follows:  
                                   \$2,165,059.00 under the Agreement; and  
                                   \$226,025.33 under this First Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement and this Amendment exceed the Maximum Compensation without an agreement executed by the parties.

Except as provided herein, all terms and conditions of the Agreement shall remain unchanged.

FORT BEND COUNTY

Robert E. Hebert, County Judge

IDCUS, INC

Larry F. Janak, PE, Principal

12 20 2016

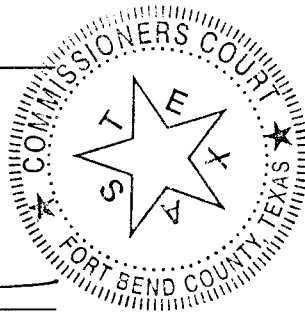
Date

12-12-2016

Date

ATTEST:

Laura Richard, County Clerk



APPROVED:

Richard W. Stolleis, P.E., County Engineer

APPROVED AS TO LEGAL FORM:

Marcus D. Spencer, First Assistant County Attorney

**AUDITOR'S CERTIFICATE**

I hereby certify that funds are available in the amount of \$2,391,084.<sup>33</sup> to accomplish and pay the obligation of Fort Bend County under this contract.

Robert Ed Sturdivant, County Auditor

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# EXHIBIT A



Dec. 07, 2016

Mr. Richard Stolleis, P.E.  
Fort Bend County Engineer  
301 Jackson St, 4<sup>th</sup> Floor  
Richmond, Texas 77469

Re: FM2759/FM762 (Crabb River Road) Improvements  
Final Design and PS&E from Rabbs Bayou to South of LCISD School Complex  
Additional Services

Dear Mr. Stolleis:

IDCUS Inc. (IDC) is pleased to submit its revised proposal to provide additional services for the above referenced Crabb River Road project. Please note the September 12, 2016 proposal has been revised to incorporate construction phase services as requested by Fort Bend County. This work includes: review shop drawings and forming details, responses to RFIs and up to 12 times site visits.

This proposal includes: changes in roadway alignment, drainage design, traffic design, RR Exhibit, bridge design, noise walls, SW3P, TCP, surveying and construction phase services. Attached is the scope of work and detailed cost proposal. The cost for the additional services is \$226,025.33.

I am available to discuss at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "Larry F. Janak".

Larry F. Janak, P.E.  
Principal



## **ADDITIONAL ENGINEERING SERVICES SCOPE OF WORK AND FEE SCHEDULE**

### **Crabb River Road PS&E**

**12-07-16**

Please find below IDCUS's addendum request to the original executed scope and fee for the following additional engineering services, as requested by Fort Bend County on the Crabb River Road Phase 1 Project.

1. **Roadway Design:** Original proposal was based on widening & overlaying existing ACP within limits of the future Phase II overpass, and using the existing alignment & profile through the at-grade RR crossing. However, during the design concept meeting TxDOT decided to reconstruct the existing ACP with proposed concrete and adjust the alignment & profile through the RR crossing to meet 45mph design speed. Additional design effort was required to incorporate the intersection vertical profile adjustment of approximately 3 ft through the intersection.
2. **Drainage Design:** Revised hydraulic analysis at Gapps Slough to accommodate higher proposed roadway profile that eliminated overtopping of Crabb River Road. The existing roadway profile is below the 100 yr and also the 10 year WSE. After 60% plan submittal TxDOT requested to raise the profile to be above 100-yr storm. Revised proposed Detention Pond north of Gapps slough to increase storage capacity, as requested by TxDOT. Prepared Scour report at Rabbs Bayou Bridge.
3. **Warrant Studies/Signal Design:** Original scope & cost was for 3 signalized intersections. However, there are actually 5 signalized intersections within the project limits.
4. **RR Exhibit:** Revised RR exhibit to accommodate revised roadway alignment & profile at the RR crossing.
5. **Pond Backfill:** Analyzed multiple alternatives to avoid steep side slope in vicinity of old golf course pond. Selected alternative was to acquire a Temporary Construction Easement and backfill the pond.
6. **Rabbs Bayou Bridge Condition Survey Report:** Initial decision by TxDOT was to widen the existing bridge. However, subsequent to that decision, TxDOT asked that a bridge condition survey report be performed to determine if the bridge should be widened or replaced.
7. **Rabbs Bayou Bridge Redesign:** Work had already started on bridge widening design, but was placed on hold pending results of the Bridge Condition Survey Report. When the results on the report indicated the bridge should be replaced, the bridge widening design had to be reworked.
8. **Noise Wall Revisions:** Received comments from TxDOT regarding making walls uniform height.
9. **Noise Wall Workshop:** Prepare for and attend Noise Wall Work Shop.
10. **SW3P for Detention Ponds:** SW3P for the 3 detention ponds was not included in the original scope.
11. **TCP through RR Grade Crossing:** Reconstruction of RR at-grade crossing added more steps to the TCP sequence.

12. Topographic Survey: Performed additional topo survey for Rabbs Bayou, Gapps Slough and Detention Pond site for Pond north of Gapps Slough.

### **Additional Engineering Services Scope**

1. **Roadway Sheets revisions:** Roadway sheets scope change from widening and overlay of existing ACP roadway to full depth reconstruction and widening with CRCP. New scope included upgrade of existing geometric to current TxDOT criteria.
  - a. Crabb River Road P&P's: Revised 3P&P sheets through the CRR/Thompson Highway intersection & RR Crossing due to revision of existing 25 mph alignment design to a proposed 45 mph design speed. This changed revised the lane and intersection configuration throughout the limits of alignment change. The CRR centerline profile was adjusted at the BNSF Rail Road to provide a smoother grade across the tracks. This impacted the grades at CRR/Thompson intersection.
  - b. Thompsons Highway P&P: Revised 2 P&P sheets along Thompsons Highway to accommodate alignment & profile changes at the RR crossing.
  - c. Intersection Layout/Grading Plan: Revised 1 sheet at the Thompson Highway intersection at CRR. Changes included revisions to the lane configuration and centerline profile grade tie-ins at CRR.
  - d. Typical Section: Revised 2 Typical Section Sheet to incorporate the lane configuration changes
2. **Drainage Design:**
  - a. Prepare Bridge Scour Report for Rabbs Bayou Bridge. TxDOT requested Bridge Scour Analysis Report for Rabbs Bayou Bridge. The work was not included in original scope of work.
  - b. Revise hydraulic analysis at Gapps Slough to accommodate higher proposed roadway profile that eliminated overtopping of Crabb River Road. The existing hydraulic models show overtopping of existing roadway at Gapps Slough for 10-yr and 100-yr condition. TxDOT requested that CRR roadway should be designed above 100-yr storm. IDC did hydraulic impact analysis on higher roadway profiles with several crossing culvert alternatives.
  - c. Revise Detention Pond north of Gapps Slough to increase storage capacity. After 60% submittal TxDOT requested to increase Pond #2 detention volume to mitigate hydraulic impact due to higher profile. Detention Pond #2 design was 60% completed and had to be reworked.
3. **Warrant Studies & Signal Design:** Prepared two (2) new signal warrant studies along with 2 new traffic signal design layouts at Berdett Rd. and 2nd School Entrance.
4. **Miscellaneous Roadway:**
  - a. RR Exhibit: Two RR Exhibit and layout sheets were impacted by the center line alignment revisions requiring redesign of the RR signal arms/raised median/concrete curb/sidewalk locations. Sheets had been fully detailed for RR Exhibit A submission.

- b. **Pond Backfill:** Developed and analyzed alternatives to reduce steep side slope at pond in vicinity of church. These included – retaining wall, concrete slope paving, and backfilling pond. County & TxDOT selected backfilling the pond.
5. **Rabbs Bayou Bridge Condition Survey Report:** Develop Condition Survey Report to analyze the existing bridge over Rabbs Bayou with new loading due to the proposed widening. This report investigates the following structural elements:
    - Calculate the existing loads on the bridge to verify the existing loads showing on the as-built plans are valid.
    - Calculate the new loads on the existing structure to determine if the foundation can support the extra loads added due to the 5” concrete slab and the 6” raised median.
    - Check the capacity of the existing piles based on the soil data on the as-built plans.
    - Check the existing cap design.
    - Check the existing beam design.
    - Management of task operations.

A proposed design recommendation based on the performed structural analysis of the existing structure will be provided in the “Conclusions and Recommendations” Section of the Condition Survey Report.

6. **Rabbs Bayou Bridge Widening Alternative:** As directed by TxDOT, Subconsultant shall prepare conceptual typical sections for the widening of the existing Crabb River Road Bridge at Rabbs Bayou. The existing bridge is approximately 200 feet long and 42.75 feet wide and when widened as proposed (approximately 16 feet on the west side and approximately 26 feet on the east side), would be approximately 85 feet in total width. The design will include the following elements:
  - a. Develop bridge widening typical sections for two different alternatives.
  - b. Design consultation between TxDOT, Prime Consultant and roadway designers.
  - c. Manage task operations
7. **Noise Wall Revisions:** Revise previously approved sound wall layouts for the Crabb River Road project due to TxDOT requesting all walls be the same height. Work shall include the following:
  - a. Revise noise wall layout(s) per height revisions.
  - b. Address any additional comments per the updated noise analysis as necessary.
  - c. Provide updated quantities and summary for the sound wall segment of the PS&E package.
  - d. Manage task operations.
8. **Noise Wall Workshop:** Prepare materials for and attend noise wall workshop.
  - a. In accordance with TxDOT practice, prepare a noise wall presentation describing how noise levels are measured and calculated.
  - b. Coordinate with TxDOT regarding presentation of materials explaining TxDOT noise policy on noise barriers. Materials describing the policy will be included in the presentation. (Does not include preparation of foam board schematic exhibits of the project).
  - c. Two members of staff will attend and participate in the workshop.

9. **SW3P @ Detention Pond Site #2:** Revise layout to accommodate revised Pond #2. Work includes:
  - a. Re-analyze detention pond to determine best management practices for the revised pond site.
  - b. Revise layouts based on the analysis of the detention pond locations.
  - c. Update quantities.
  - d. Manage task operations.
10. **TCP Sequence at RR Crossing:** Develop and prepare traffic control-related railroad intersection exhibit layouts not originally scoped for the initial Crabb River Road project. Work shall include the following:
  - a. Develop and prepare railroad intersection exhibits per TCP plan.
  - b. Manage task operations.
11. **Rabbs Bayou Redesign to comply with new TxDOT Bridge Design Procedures:** TxDOT commented on 90% review plans that bridge design must comply with bridge design procedures recently adopted by TxDOT.
  - a. Change prestressed concrete girder strands to 0.6" (from 0.5") diameter strands.
  - b. Change slab depth from 8" to 8.5".
12. **Additional Survey:**
  - a. Perform additional survey for Rabbs Bayou
  - b. Perform additional survey for Gapps Slough
  - c. Perform boundary, planimetric and topographic survey for detention pond north of Gapps Slough
  - d. Prepare Temporary Construction Easement to fill-in off ROW pond
13. **Construction Phase Services:**
  - a. Shop drawing and forming details review

The Engineer shall review shop drawings using the following procedures.

    1. Review the drawings for conformity to the plans, specifications, and special provisions, as well as conformity to any subsidiary standards or criteria referred to by the plans, specifications or special provisions.
    2. If the drawing is found to be in conformity, or an alternate design is adequate and acceptable, the drawing shall be marked "Approved" with signature, date and statement that "Approval" of this drawing does not relieve the contractor of the responsibility for the correctness of detail"
    3. If there are only minor corrections, the incorrect information shall be crossed out and the correct information shall be written next to the crossed out information. All the red-lines shall be done in indelible red ink. The submittal shall be returned marked "Approved Except as Noted" with signature, date and statement "Approval of this

drawing does not relieve the contractor of the responsibility for the correctness of detail.”, and no re-submittal shall be required.

4. If the corrections are more significant and the Engineer does not concur with the information on the drawings, then the submittal shall be returned marked “Amend and Resubmit.” The Drawings must then be resubmitted for a second review.
5. If the drawings are found not to be in conformity, the drawings shall be marked “Rejected See Remarks.” An explanation of why the submittal was disapproved shall be provided in enough detail for the Contractor to be able to make the corrections for re-submittal.
6. A cover letter shall be returned with the reviewed drawings containing:
  - a. A description of the submittal
  - b. The Status of the submittal
7. If the design reviewed was an alternate design, a notation declaring that an alternate design was presented and what criteria were used to determine if the alternate design is adequate and acceptable
8. If the submittal was not accepted without exception, an explanation of the exceptions
9. The Engineer shall return the reviewed drawing submittal within seven (7) business days of receiving the shop drawing submittal from the State.

b. **Response to Requests For Information (RFIs) and answering general questions.**

The Engineer shall be available to respond to questions related to the plans and specifications throughout the duration of the construction. The Engineer shall document each question in sufficient detail, formulate a response and submit a written version of the response to the State.

c. **Other project related tasks (site visits)**

The Engineer shall make up to twelve site visits to meet with the State and the contractor. The Engineer shall take meeting notes and provide a copy to the State. The Engineer shall provide any necessary responses as a follow-up to each meeting.

**Additional Engineering Services Fee**

The total fee for the aforementioned additional services is \$226,025.33 (See Summary Table below and Attachment B for IDC, PB and Huitt Zollars for itemized fee breakdown).

**Cost Summary Table**

<b>IDCUS</b>	<b>FEE</b>
<b>Task I - ROADWAY DESIGN CONTROLS</b>	
Proposed Typical	\$920.81
Roadway P&P	\$2,297.64
Intersection Layout	\$920.81
<b>Task Subtotal</b>	<b>\$4,139.25</b>
<b>Task II - DRAINAGE DESIGN</b>	
Rabbs Bayou Bridge Scour Report	\$5,571.62
Detention Pond #2 Design Modifications	\$6,197.18
Hydraulic Analysis at Gapps Slough to Accommodate Proposed Profile to Eliminate Overtopping of Crabb River Road	\$6,512.89
<b>Task Subtotal</b>	<b>\$18,281.69</b>
<b>Task IV - TRAFFIC SIGNALIZATION</b>	
Traffic Signal Warrant Study at Berdett Road	\$8,676.06
Traffic Signal Warrant Study at 2nd School Entrance	\$8,676.06
Traffic Signal Design at Berdett Rd	\$23,122.51
Traffic signal Design at 2nd School Entrance	\$23,12.51
<b>Task Subtotal</b>	<b>\$63,597.14</b>
<b>Task V - MISCELLANEOUS ROADWAY</b>	
RR Exhibit	\$2,136.86
Pond Backfill	\$3,791.39
<b>Task Subtotal</b>	<b>\$5,928.25</b>
<b>Task VI - CONSTRUCTION PHASE SERVICES</b>	
Shop Drawing and Forming Details Review	\$15,000.00
Responses to RFIs	\$13,000.00
Other Project Related Tasks ( Site Visits)	\$12,000.00
<b>Task Subtotal</b>	<b>\$40,000.00</b>
<b>Total for IDC</b>	<b>\$131,946.33</b>
<b>Parsons Brinkerhoff, Inc. (PB)</b>	
Condition Survey Report	\$11,502.00
Rabbs Bayou Bridge Widening Alternative	\$4,651.00
Sound Wall Revisions	\$3,541.00
Noise Workshop Preparation	\$9,017.00
SWPPP-Detention Pond	\$2,600.00
TCP -BNSF RR Exhibits	\$7,984.00
Rabbs Bayou Bridge Redesign	37814.00
ODCS	\$800.00
<b>PB Total</b>	<b>\$77,909.00</b>

<b>Huitt Zollars</b>	
Rabbs Bayou Additional Survey	\$3,220.00
Gapps Slough Additional Survey	\$3,220.00
Detention Pond #2 Additional Survey	\$7,290.00
TCE for Pond Backfill	\$2,440.00
<b>Huitt Zollars Total</b>	<b>\$16,178.00</b>
<b>Total Fee</b>	<b>\$226,025.33</b>

**ATTACHMENT B (Additional Services)**

**Crabb River Road Improvements from Rabbs Bayou to George Ranch High School (LCISD)**

**IDCUS, INC FEE**

Rev 12-07-16

Task Description	Sheet Count	Principal \$70	Project Manager \$65	Project Engineer \$55	Designer \$38	CADD Tech. \$28	Clerical \$25	Total Labor (Hours)	Direct Labor (Dollars)	Overhead 161.00% (Dollars)	Fixed Fee 12% (Dollars)	30% Submittal	60% Submittal	90% Submittal	100% Submittal	Total Amount (Dollars)
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<b>Task I - ROADWAY DESIGN CONTROLS</b>																
Crabb River Road Typical Sections - Proposed	1		1	2		5		8	\$315.00	507.15	98.66	276.24	276.24	276.24	92.08	920.81
Roadway P&P Sheets (1"=50')	3		1	7		12		20	\$786.00	1,265.46	246.18	689.29	689.29	689.29	229.76	2,297.64
Intersection Layout (1"=50')	1		1	2		5		8	\$315.00	507.15	98.66	276.24	276.24	276.24	92.08	920.81
<b>Subtotal</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>11</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>36</b>	<b>1,416.00</b>	<b>2,279.76</b>	<b>443.49</b>	<b>1,241.78</b>	<b>1,241.78</b>	<b>1,241.78</b>	<b>413.93</b>	<b>4,139.25</b>

<b>Task II - DRAINAGE DESIGN</b>																
Rabbs Bayou Bridge Scour Report			2	24	12			38	1,906.00	3,068.66	596.96	1,671.49	1,671.49	1,671.49	557.16	5,571.62
Detention Pond #2 Design Modifications			4	20	20			40	\$2,120.00	3,413.20	663.98	1,859.16	1,859.16	1,859.16	619.72	6,197.18
Hydraulic Analysis at Gapps Slough to Accommodate Proposed Profile to Elimiate Overtopping of Crabb River Road			4						\$260.00	418.60	81.43	228.01	228.01	228.01	76.00	760.03
Coordination w/ TxDOT and Fort Bend County			4													
Update drainage report to accommodate higher PGL to eliminate overtopping of Crabb River Road			4	20	16			40	\$1,968.00	3,168.48	616.38	1,725.86	1,725.86	1,725.86	575.29	5,752.86
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>14</b>	<b>64</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>118</b>	<b>6,254.00</b>	<b>10,069</b>	<b>1,958.75</b>	<b>5,484.51</b>	<b>5,484.51</b>	<b>5,484.51</b>	<b>1,828.17</b>	<b>18,281.69</b>

<b>Task IV - TRAFFIC SIGNALIZATION</b>																
Traffic Signal Warrant Study at Berdett Road		2	10	18	18	18		66	\$2,968.00	4,778.48	929.58	2,602.82	2,602.82	2,602.82	867.61	8,676.06
Traffic Signal Warrant Study at 2nd School Entrance		2	10	18	18	18		66	\$2,968.00	4,778.48	929.58	2,602.82	2,602.82	2,602.82	867.61	8,676.06
Traffic Signal Design at Berdett Rd		8	20	50	50	50		178	\$7,910.00	12,735.10	2,477.41	6,936.75	6,936.75	6,936.75	2,312.25	23,122.51
Traffic signal Design at 2nd School Entrance		8	20	50	50	50		178	\$7,910.00	12,735.10	2,477.41	6,936.75	6,936.75	6,936.75	2,312.25	23,122.51
<b>Subtotal</b>		<b>16</b>	<b>40</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>356</b>	<b>15,820</b>	<b>25,470.20</b>	<b>4,954.82</b>	<b>13,873.51</b>	<b>13,873.51</b>	<b>13,873.51</b>	<b>4,624.50</b>	<b>63,597.14</b>

<b>Task V - MISCELLANEOUS ROADWAY</b>																
RR Exhibit	2		1	6		12		19	\$731.00	1,176.91	228.95	641.06	641.06	641.06	213.69	2,136.86
Pond Backfill	2		1	8	12	12		33	\$1,297.00	2,088.17	406.22	1,137.42	1,137.42	1,137.42	379.14	3,791.39
<b>Subtotal</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>14</b>	<b>12</b>	<b>24</b>	<b>0</b>	<b>52</b>	<b>2,028.00</b>	<b>3,265.08</b>	<b>635.17</b>	<b>1,778.47</b>	<b>1,778.47</b>	<b>1,778.47</b>	<b>592.82</b>	<b>5,928.25</b>

<b>Task VI - CONSTRUCTION PHASE SERVICES</b>																
Review shop drawings and forming details																15,000.00
Response to RFIs																13,000.00
Site Visit (up to 12 times)																12,000.00
<b>Subtotal</b>																<b>40,000.00</b>

Total Labor **\$131,946.33**

Direct Costs	Unit	Qty	Unit Cost	
Deliveries	Each	0	100	\$0
Mileage	Mi	0	0.565	\$0
Outside Reproduction (30%, 60%, 90%, 100% Submissions)	Printing	0	4,000	\$0
<b>Total Direct Costs (IDC)</b>				<b>\$0</b>

**TOTAL IDC COSTS **\$131,946.33****

P B

**EXHIBIT A  
SCOPE OF SERVICES  
CRABB RIVER ROAD WIDENING PROJECT  
SUPPLEMENTAL AGREEMENT NUMBER 4**

**Task 1. Condition Survey Report**

Subconsultant shall develop a Condition Survey Report analyzing the existing bridge over Rabbs Bayou with new loading due to the proposed widening. The report will investigate the following structural elements:

- a) Site visit to verify existing plans and recent survey information.
- b) Calculate the existing loads on the bridge to verify the existing loads showing on the as-built plans are valid.
- c) Calculate the new loads on the existing structure to determine if the foundation can support the extra loads added due to the 5" concrete slab and the 6" raised median.
- d) Check the capacity of the existing piles based on the soil data on the as-built plans.
- e) Check the existing cap design.
- f) Check the existing beam design.
- g) Subconsultant shall prepare a design recommendation based on structural analysis of the existing structure that will be provided in the "Conclusions and Recommendations" Section of the Condition Survey Report.
- h) Meeting to discuss report findings with TxDOT
- i) Manage task operations.

**Task 2. Rabbs Bayou Bridge Widening**

As directed by the Prime Consultant, Subconsultant shall prepare conceptual typical sections for the widening of the existing Crabb River Road Bridge at Rabbs Bayou. The existing bridge is approximately 200 feet long and 42.75 feet wide and when widened as proposed (approximately 16 feet on the west side and approximately 26 feet on the east side), would be approximately 85 feet in total width. The design will include the following elements:

- a) Develop bridge widening typical sections for two different alternatives.
- b) Design consultation between TxDOT, Prime Consultant and roadway designers.
- c) Manage task operations

**EXHIBIT A  
SCOPE OF SERVICES  
CRABB RIVER ROAD WIDENING PROJECT  
SUPPLEMENTAL AGREEMENT NUMBER 1**

**Task 3. Sound Wall Revisions**

Subconsultant shall revise previously designed sound wall layouts for the Crabb River Road project due to wall height and length revisions associated with an updated noise analysis. The noise analysis models were updated to reflect two different scenarios – the construction of Phase I (roadway improvements with no overpass work at railroad crossing at FM 762) and Phase II (minor roadway improvements with the inclusion of an overpass at the railroad crossing at FM 762). Work shall include the following:

- a) Revise noise wall layout(s) per height and length comments proposed in the noise analysis.
- b) Address any additional comments per the updated noise analysis as necessary.
- c) Provide updated quantities and summary for the sound wall segment of the PS&E package.
- d) Manage task operations.

**Task 4. Noise Workshop Preparation**

Subconsultant shall prepare materials for and attend a Crabb River Road proposed noise wall workshop.

- a) In accordance with TxDOT practice, prepare a noise wall presentation describing how noise levels are measured and calculated. Materials from previous noise workshops will be adapted for this presentation. These materials will need to be changed and modified to accurately describe the Crabb River Road project, process and results.
- b) Subconsultant will coordinate with TxDOT regarding presentation of materials explaining TxDOT noise policy on noise barriers. Materials describing the policy will be included in the presentation. (Does not include preparation of foam board schematic exhibits of the project)
- c) Subconsultant staff shall attend the noise workshop with two members of the staff attending and participating in the workshop.

**EXHIBIT A  
SCOPE OF SERVICES  
CRABB RIVER ROAD WIDENING PROJECT  
SUPPLEMENTAL AGREEMENT NUMBER 1**

**Task 5. SWPPP – Detention Pond #2 Revision**

Subconsultant shall revise Detention Pond #2 SWPPP layouts due to design revisions that occurred during the development of the PS&E package for the Crabb River Road project. Work shall include the following:

- a) Re-analyze the Detention Pond #2 location to determine the best management practices for the revised area.
- b) Revise the SWPPP layout associated with Detention Pond #2 based on the analysis of the detention pond location.
- c) Provide updated quantities and summary due to the revision to Detention Pond #2 for the SWPPP segment of the PS&E package.
- d) Manage task operations.

**Task 6. TCP – BSNF Railroad Intersection Exhibits**

Subconsultant shall develop and prepare traffic control-related railroad intersection exhibit layouts not originally scoped for the initial Crabb River Road project. Work shall include the following:

- a) Develop and prepare railroad intersection exhibits per TCP plan.
- b) Manage task operations.

PHASE I  
GRAND PARKWAY SEGMENT C (CRABB RIVER ROAD)  
SUPPLEMENTAL AGREEMENT #2

July 2016

STAFFING PLAN AND BUDGET WORKSHEET  
FORT BEND COUNTY CRABB RIVER ROAD EXPANSION PS&E

Sub Task	Team Member/Employee Classification																		Total				
	Bill Rate		Project Manager		Sr. Bridge Engr.		Sr Planner		Sr Planner		Sr. Planner		Engineer		EIT		Graphics		CA/D		Total		
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	
<b>Task 1. Condition Survey Report</b>																							
a) Site visit to verify existing plans and recent survey information	0	0	2	\$411	2	382		\$0		0		0	4	\$518	4	\$376		0	0	\$0	12	\$1,687.00	
b) Calculate the existing loads on the bridge	0	0	0	\$0	3	\$674		\$0		0		0	6	\$776		0		0	0	0	9	\$1,350.00	
c) Calculate the new loads on the existing structure	0	0	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0	0	0	8	\$1,158.00	
d) Check the capacity of the existing piles	0	0	0	\$0	6	\$1,147		\$0		0		0	6	\$776		0		0	0	0	6	\$1,158.00	
e) Check the existing cap design	0	0	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0	0	0	4	\$1,158.00	
f) Check the existing beam design	0	0	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0	0	0	8	\$1,158.00	
g) Report Preparation	0	0	2	\$411	2	382		\$0		0		0	4	\$518	2	\$188				\$0	10	\$1,499.00	
h) Meeting with TxDOT to discuss report findings	0	0	2	\$411	0	\$0		\$0		0		0	0	\$0		0				0	2	\$411.00	
i) Management of Task Operations	0	0	2	\$411	0	\$0		\$0		0		0	0	\$0		0				0	2	\$411.00	
<b>Subtotal Task 1</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>\$1,233</b>	<b>21</b>	<b>4,813</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>\$5,692</b>	<b>6</b>	<b>\$64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>\$11,502.00</b>	
<b>Task 2. Rabbs Bayou Bridge Widening</b>																							
a) Develop bridge widening typical sections	0	0	0	\$0	4	765		\$0		0		0	4	\$518	4	376			0	4	\$565	16	\$2,224.00
b) Coordination between bridge and roadway on the geometry	0	0	2	\$411	2	\$382		\$0		0		0	8	\$1,035	2	188			0	0	\$0	14	\$2,016.00
c) Management of Task Operations	0	0	2	\$411	0	\$0		\$0		0		0	0	\$0	0	\$0			0	0	\$0	2	\$411.00
<b>Subtotal Task 2</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>\$822</b>	<b>6</b>	<b>1,147</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>1,553</b>	<b>6</b>	<b>\$64</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>\$65</b>	<b>32</b>	<b>\$4,651.00</b>
<b>Task 3. Sound Wall Revisions</b>																							
a) Revise noise wall layout(s) per height and length recommendations.	0	0	1	\$206	0	\$0		\$0		0		0	2	\$259	4	376			0	4	\$65	11	\$1,406.00
b) Address additional comments as necessary.	0	0	1	\$206	0	\$0		\$0		0		0	2	\$259	4	376			0	4	\$65	11	\$1,406.00
c) Updates to quantities and summary	0	0	1	\$206	0	\$0		\$0		0		0	1	\$129	2	188			0	0	0	4	\$523.00
d) Management of Task Operations	0	0	1	\$206	0	\$0		\$0		0		0	0	\$0		0			0	0	0	1	\$206.00
<b>Subtotal Task 3</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>\$824</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>\$647</b>	<b>10</b>	<b>\$840</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>8</b>	<b>\$1,130</b>	<b>27</b>	<b>\$3,541.00</b>
<b>Task 4. Noise Workshop Preparation</b>																							
a) PowerPoint Preparation	0	0	4	\$822	0	\$0	4	\$540	20	\$2,259	8	\$1,254	4	\$518		0				0	40	\$5,393.00	
b) Prepare Presentation Materials	0	0	2	\$411	0	\$0		\$0	4	\$452		\$0		0		0	8	\$584		0	16	\$1,447.00	
c) Meeting Staffing	0	0	1	\$622	0	\$0		\$0	12	\$1,355		\$0		0		0	0			0	16	\$2,177.00	
<b>Subtotal Task 4</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>\$2,055</b>	<b>0</b>	<b>\$0</b>	<b>4</b>	<b>\$540</b>	<b>36</b>	<b>\$4,066</b>	<b>8</b>	<b>\$1,254</b>	<b>4</b>	<b>\$618</b>	<b>0</b>	<b>\$0</b>	<b>8</b>	<b>\$584</b>	<b>0</b>	<b>\$0</b>	<b>70</b>	<b>\$9,017.00</b>	
<b>Task 5. SWPPP - Detention Pond #2 Revision</b>																							
a) Re-analyze the Detention Pond #2 location to determine the best management practices for the additional areas.	0	0	1	\$206	0	\$0		\$0		0		0	2	\$259	2	188			0	0	5	\$653.00	
b) Revise the Detention Pond #2 SWPPP layout based on the analysis	0	0	1	\$206	0	\$0		\$0		0		0	2	\$259	2	188			0	4	\$65	9	\$1,218.00
c) Updates to quantities and summary	0	0	1	\$206	0	\$0		\$0		0		0	1	\$129	2	188			0	0	4	\$523.00	
d) Management of Task Operations	0	0	1	\$206	0	\$0		\$0		0		0	0	\$0		0			0	0	1	\$206.00	
<b>Subtotal Task 5</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>\$824</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>\$647</b>	<b>6</b>	<b>\$664</b>	<b>0</b>	<b>\$0</b>	<b>4</b>	<b>\$65</b>	<b>19</b>	<b>\$2,600.00</b>	
<b>Task 6. TCP - BNSF RR Exhibits</b>																							
a) Develop and prepare railroad intersection exhibits per TCP plan.	0	0	2	\$411	0	\$0		\$0		0		0	8	\$1,035	16	1,506			0	24	3,388	50	\$8,340.00
b) Management of Task Operations	0	0	8	\$1,644	0	\$0		\$0		0		0	0	\$0		0				0	8	\$1,644.00	
<b>Subtotal Task 6</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>\$2,055</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>\$1,035</b>	<b>16</b>	<b>\$1,506</b>	<b>0</b>	<b>\$0</b>	<b>24</b>	<b>\$3,388</b>	<b>58</b>	<b>\$7,984.00</b>	
<b>Total Hours and Labor Cost</b>	<b>0</b>	<b>\$0</b>	<b>38</b>	<b>\$7,813</b>	<b>27</b>	<b>\$5,160</b>	<b>4</b>	<b>\$540</b>	<b>36</b>	<b>\$4,066</b>	<b>8</b>	<b>\$1,254</b>	<b>78</b>	<b>\$10,092</b>	<b>44</b>	<b>\$4,138</b>	<b>8</b>	<b>\$584</b>	<b>40</b>	<b>\$5,648</b>	<b>285</b>	<b>\$39,295.00</b>	
ODCs																						\$800.00	
<b>Total Cost</b>																						<b>\$40,095.00</b>	

OOC  
 Airline Ticket \$500.00  
 Per Diem \$50.00  
 Hotel \$150.00  
 Reproduction \$100.00  
 \$800.00

**EXHIBIT A  
SCOPE OF SERVICES  
CRABB RIVER ROAD WIDENING PROJECT  
SUPPLEMENTAL AGREEMENT NUMBER 1  
(BRIDGE DESIGN REVISION)**

**Task 1. Change prestressed concrete girder strands to 0.6" (from 0.5") diameter strands.**

Subconsultant shall change strand size from 0.5" diameter to 0.6" diameter. It is anticipated that the following calculations will have to be revised:

- a) PGSuper
- b) Haunch Calculations
- c) BGS (if haunch depths change)
- d) Control elevations at bents and abutments

The calculations will be revised, checked and QC'd in accordance with the original contract. The calculations will be updated, regardless of impact to the design.

By changing the calculations in Task 1, changes to the following sheets may be required:

- e) Abutment 1 and 4 (control elevations)
- f) Interior Bent 2 and 3 (control elevations)
- g) Prestressed Concrete Girder Unit (X,Y and Z values)
- h) Estimated quantities and Bearing seat elevations (elevations)
- i) IGND (beam design data)

Quantities will be revised, if necessary, to reflect changes.

**Task 2. Change slab depth from 8" to 8.5"**

Subconsultant shall change deck thickness from 8" to 8.5". It is anticipated that the following calculations will be revised, checked and QC'd as a result of this change:

- a) PGSuper
- b) Haunch Calculations
- c) BGS
- d) Control Elevations at Abutments and Bents
- e) Freeboard Calculations
- f) Abutment Calculations
- g) Bent Calculations
- h) Foundation Calculations

The calculations will be revised, checked and QC'd in accordance with the original contract. The calculations will be updated, regardless of impact to the design.

**EXHIBIT A  
SCOPE OF SERVICES  
CRABB RIVER ROAD WIDENING PROJECT  
SUPPLEMENTAL AGREEMENT NUMBER 1  
(BRIDGE DESIGN REVISION)**

The changes to the calculations in Task 2 may result in changes to the following plan sheets:

- i) Bridge Layout
- j) Estimated Quantities and Bearing Seat Elevations
- k) Construction Phasing Sequence
- l) Foundation Layouts
- m) Abutment 1 and 4
- n) Bents 2 and 3
- o) Framing Plan
- p) Prestressed Concrete Girder Unit
- q) IGND

Quantities will be revised, if necessary, to reflect changes.

PHASE I  
 GRAND PARKWAY SEGMENT C (CRABB RIVER ROAD)  
 SUPPLEMENTAL AGREEMENT # 1

August 2016

PARSONS BRINCKERHOFF  
 STAFFING PLAN AND BUDGET WORKSHEET  
 FORT BEND COUNTY CRABB RIVER ROAD EXPANSION PS&E

Sub Task	Project Manager \$205.50		Sr. Bridge Engr. \$191.18		Sr Planner \$135.00		Sr Planner \$112.94		Sr. Planner \$156.70		Engineer \$129.41		EIT \$94.12		Graphics \$73.01		CADD \$141.18		Total			
	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost		
<b>Task 1. Update Diameter Strands (0.6")</b>																						
a) Update PGSuper Model	0	\$0	2	\$382		\$0		0		0	6	\$776		\$0		0		0		8	\$1,158.00	
b) Update Haunch Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
c) Update BGS Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
d) Update Control Elevations at Bents and Abuts	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
e) Sheet Updates - Abut 1/Abut 4	0	\$0	1	\$191		\$0		0		0	4	\$518		0		0	8	1,129		13	\$1,838.00	
f) Sheet Updates - Int Bent 2/Int Bent 3	0	\$0	1	\$191		\$0		0		0	4	\$518		0		0	8	1,129		13	\$1,838.00	
g) Sheet Update - Prestr Conc Girder Unit	0	\$0	1	\$191		\$0		0		0	4	\$518		0		0	8	1,129		13	\$1,838.00	
h) Sheet Update - Estim Quant/Bearing Seat Elev	0	\$0	1	\$191		\$0		0		0	4	\$518		\$0		0	8	\$1,129		13	\$1,838.00	
i) Sheet Update - IGND (Beam Design Data)	0	\$0	1	\$191		\$0		0		0	4	\$518		\$0		0	8	\$1,129		13	\$1,838.00	
j) Management of Task Operations	12	\$2,466	0	\$0		\$0		0		0	0	\$0		0		0		0		12	\$2,466.00	
<b>Subtotal Task 1</b>	<b>12</b>	<b>\$2,466</b>	<b>13</b>	<b>2,483</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>5,994</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>40</b>	<b>5,645</b>	<b>109</b>		<b>\$16,288.00</b>	
<b>Task 2. Update Slab Depth (8.5")</b>																						
a) Update PGSuper Model	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
b) Update Haunch Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
c) Update BGS Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
d) Update Control Elevations at Bents and Abuts	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
e) Update Freeboard Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
f) Update Abutment Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
g) Update Bent Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
h) Update Foundation Calculations	0	\$0	2	\$382		\$0		0		0	6	\$776		0		0		0		8	\$1,158.00	
i) Sheet Update - Bridge Layout	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
j) Sheet Update - Estim Quant/Bearing Seat Elev	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
k) Sheet Update - Construction Phasing Sequence	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
l) Sheet Updates - Foundation Layouts	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
m) Sheet Updates - Abut 1/Abut 4	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
n) Sheet Updates - Int Bent 2/Int Bent 3	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
o) Sheet Update - Framing Plan	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
p) Sheet Update - Prestr Conc Girder Unit	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
q) Sheet Update - IGND (Beam Design Data)	0	\$0	1	\$191		\$0		0		0	2	\$259		0		0	4	\$565		7	\$1,015.00	
r) Management of Task Operations	14	\$2,877	0	\$0		\$0		0		0	0	\$0		0		0		0		14	\$2,877.00	
<b>Subtotal Task 2</b>	<b>14</b>	<b>\$2,877</b>	<b>25</b>	<b>4,775</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66</b>	<b>8,539</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>36</b>	<b>5,085</b>	<b>141</b>		<b>\$21,276.00</b>	
<b>Total Hours and Labor Cost</b>	<b>26</b>	<b>\$5,343</b>	<b>38</b>	<b>\$7,258</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>110</b>	<b>\$14,233</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>	<b>76</b>	<b>\$10,730</b>	<b>250</b>	<b>\$37,564.00</b>	
ODCs																					\$250.00	
<b>Total Cost</b>																						<b>\$37,814.00</b>

August 1, 2016

Mr. Brian Zhang  
Project Manager  
IDC, Inc.  
11111 Wilcrest Green Drive, Ste. 250  
Houston, Texas 77042

**Re: Proposal for Additional Professional Surveying Services  
Crabb River Road, Phase II**

Dear Mr. Zhang:

Huitt-Zollars, Inc. (Huitt-Zollars) appreciates the opportunity to further explain the level of effort involved in the topographic survey of approximately 1200 feet along Rabb's Bayou on the upstream side of Crabb River Road and in topographic survey of approximately 1,200 feet along Gapp's Slough on the downstream side of Crabb River Road.

**SCOPE OF SERVICES:**

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**1.0 Basic Services**

**1.1 Phase I**

**Task 1:** Perform a planimetric and topographic survey extending from the limits of the current Huitt-Zollars survey (extending approximately 200 feet from the existing right-of-way) outwardly 1,200 feet on the westerly (upstream) side of Rabb's Bayou from top of bank to top of bank and extending outwardly approximately 20 feet therefrom. The survey shall include readily apparent improvements, readily apparent underground and readily apparent aboveground utilities. The topographic survey shall consist of cross-sections at every 100 feet, with densification for additional swales, ditches, mounds, etc., as needed.

**Task 2:** Perform a planimetric and topographic survey extending from the limits of the current Huitt-Zollars survey (extending approximately 200 feet from the existing right-of-way) outwardly 1,200 feet along Gapp's Slough on the easterly (downstream) side of Crabb River Road from top of bank to top of bank and the outwardly approximately 20 feet therefrom. The survey shall include readily apparent improvements, readily apparent underground and readily apparent aboveground utilities. The topographic survey shall consist of cross-sections at every 100 feet, with densification for additional swales, ditches, mounds, etc., as needed.

**2.0 Deliverables:**

1. The survey shall be prepared in MicroStation. Two (2) hard copies of the survey shall be provided to the Client.
2. An ASCII file with all of the point data will be delivered.
3. A contour drawing for each project site area with 1-foot contours prepared in MicroStation will be delivered electronically.

**3.0 Additional Services**

Services not mentioned in the above Scope of Services will be completed based upon a mutually agreed new proposal and lump sum fee with prior written approval from the Client. Additional Services can include but are not limited to the following:

1. Certifying to another type of survey other than the type referenced above.
2. Changes in the limits of the survey.
3. Preparation of documents for easements.
4. Platting

**4.0 Client Provided Services:**

The Client shall provide to Huitt-Zollars the following:

1. Any TxDOT or Ft. Bend County right-of-way maps and drawings, if available.

**COMPENSATION:**

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**1.0 Fee Budget**

1.1 Our estimated fee budget for the above services is as follows:

Task 1 \$3,220.00 (Lump Sum)  
Task 2 \$3,220.00 (Lump Sum)

**2.0 Total Estimated Budget**

2.1 Our total estimated budget for this project is \$6,440.00.

**3.0 Invoicing**

3.1 Invoices will be submitted monthly. Lump sum tasks shall be invoiced based upon percentage of work completed. Hourly not to exceed tasks shall be compensated based upon the number of hours of direct work on the project at the hourly rates for each discipline in the attached Hourly Rate Sheet.

**SCHEDULE**

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The Scope of Services above shall be completed within approximately ten (10) business days from the receipt of the signed and executed contract.

**TERMS & CONDITIONS**

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**Following are the Terms and Conditions that will apply to this AGREEMENT:**

**1. AUTHORIZATION FOR WORK TO PROCEED**

Signing of this AGREEMENT for services shall be authorization by the CLIENT for HUITT-ZOLLARS, INC. to proceed with the work.

**2. ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS**

Construction cost estimates provided by HUITT-ZOLLARS are prepared from experience and judgment. HUITT-ZOLLARS has no control over market conditions or construction procedures and does not warrant that proposals, bids, or actual construction costs will not vary from HUITT-ZOLLARS estimates.

June 21, 2016

Mr. Brian Zhang  
Project Manager  
IDC, Inc.  
11111 Wilcrest Green Drive, Ste. 250  
Houston, Texas 77042

**Re: Proposal for Additional Professional Surveying Services  
Crabb River Road, Phase II**

Dear Mr. Zhang:

Huitt-Zollars, Inc. (Huitt-Zollars) appreciates the opportunity to further explain the level of effort involved in the boundary and topographic survey of the called 10.531 acres of land that TxDOT wishes to acquire.

The original scope is as follows:

*Task 1: Perform a boundary, planimetric and topographic survey of the area not previously surveyed by Huitt-Zollars on or about December 7, 2015. The survey shall include readily apparent improvements, readily apparent underground and readily apparent aboveground utilities. The topographic survey shall consist of cross-sections at every 100 feet, with densification for additional swales, ditches, mounds, etc., as needed.*

My level of effort is as follows:

**Boundary:** This tract of land is bounded on the east by the Abner Kuykendall Survey, Abstract #48 (See Attachment A). To properly locate this easterly line, I will have to allocate time to locate this boundary line as it was originally staked on the ground (in 1823). This will necessitate costs for research and field time above and beyond those of an "ordinary" survey. I will also have to clear about 1600 feet of line to run my traverse.

**Topographic:** This land is heavily wooded in the easterly portion of this tract (See Attachment B). It is very low-lying and is covered with water much of the year. Obviously, this will require more time than usual to adequately survey this portion of the tract.

Sincerely,

---

Jack R. Chiles, Sr.  
R. P. L. S. #4778

# HUITT-ZOLLARS

HUITT-ZOLLARS, INC. • 1500 South Dairy Ashford • Suite 200 • Houston, TX 77077 3858 • 281.496.0066 phone • 281.496.0220 fax • huitt-zollars.com

July 12, 2016

Mr. Brian Zhang  
Project Manager  
IDC, Inc.  
11111 Wilcrest Green Drive, Ste. 250  
Houston, Texas 77042

**Re: Revised Proposal for Additional Professional Surveying Services  
Crabb River Road, Phase II**

Dear Mr. Zhang:

Huitt-Zollars, Inc. (Huitt-Zollars) appreciates the opportunity to provide this proposal for professional services to IDC, Inc. (Client) in connection with professional surveying services of the project site being Parcel 17, all of the called 10.531 acre tract conveyed from Lena M. Orlando (Trustee of the Orlando Family Living Trust) to Lena M. Orlando (trustee of the Orlando Family Descendants Trust) by deed dated July 13, 2011, of record under Fort Bend Clerk's Record # 2011076695, Official Public Records of Real Property, Ft. Bend County, Texas (Project). Our proposal is based upon the following scope of services, compensation, schedule and terms and conditions and attachments contained herein.

## **SCOPE OF SERVICES:**

### **1.0 Basic Services**

#### **1.1 Phase I**

Task 1: Perform a boundary, planimetric and topographic survey of the Project not previously surveyed by Huitt-Zollars on or about December 7, 2015. The survey shall include readily apparent improvements, readily apparent underground and readily apparent aboveground utilities. The topographic survey shall consist of cross-sections at every 100 feet, with densification for additional swales, ditches, mounds, etc., as needed.

### **2.0 Deliverables:**

1. The survey shall be prepared in MicroStation. Two (2) hard copies of the survey shall be provided to the Client.
2. An ASCII file with all of the point data will be delivered.
3. A DTM drawing for the project site area with 1-foot contours prepared in MicroStation will be delivered electronically.

### **3.0 Additional Services**

Services not mentioned in the above Scope of Services will be completed based upon a mutually agreed new proposal and lump sum fee with prior written approval from the Client. Additional Services can include but are not limited to the following:

1. Certifying to another type of survey other than the type referenced above.
2. Changes in the limits of the survey.
3. Preparation of documents for easements.
4. Platting.

### **4.0 Client Provided Services:**

The Client shall provide to Huitt-Zollars the following:

1. Any TxDOT or Ft. Bend County right-of-way maps and drawings, if available.

**COMPENSATION:**

**1.0 Fee Budget**

1.1 Our estimated lump sum fee for the above services is \$7,290.00.

**2.0 Invoicing**

2.1 Invoices will be submitted monthly. Lump sum tasks shall be invoiced based upon percentage of work completed. Hourly not to exceed tasks shall be compensated based upon the number of hours of direct work on the project at the hourly rates for each discipline in the attached Hourly Rate Sheet.

**SCHEDULE**

The Scope of Services above shall be completed within approximately fifteen (15) business days from the receipt of the signed and executed contract.

**TERMS & CONDITIONS**

**Following are the Terms and Conditions that will apply to this AGREEMENT:**

**1. AUTHORIZATION FOR WORK TO PROCEED**

Signing of this AGREEMENT for services shall be authorization by the CLIENT for HUITT-ZOLLARS, INC. to proceed with the work.

**2. ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS**

Construction cost estimates provided by HUITT-ZOLLARS are prepared from experience and judgment. HUITT-ZOLLARS has no control over market conditions or construction procedures and does not warrant that proposals, bids, or actual construction costs will not vary from HUITT-ZOLLARS estimates.

**3. STANDARD OF CARE**

Services performed by HUITT-ZOLLARS under this AGREEMENT will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended in this AGREEMENT, or in any report, opinion, document or otherwise.

**4. TAXES**

All taxes, including but not limited to gross receipts tax, sales tax, etc., required to be paid will be billed to the CLIENT in addition to fees.

**5. BILLING AND PAYMENT**

The CLIENT, recognizing that timely payment is a material part of the consideration of this AGREEMENT, shall pay HUITT-ZOLLARS for services performed in accordance with the rates and charges set forth herein. Invoices will be submitted by HUITT-ZOLLARS on a monthly basis and shall be due and payable within thirty (30) calendar days of invoice date. If the CLIENT objects to all or any portion of an invoice, the CLIENT shall so notify HUITT-ZOLLARS in writing within ten (10) calendar days of receipt of the invoice in question, but will pay, when due, that portion of the invoice not in dispute.

The CLIENT shall pay an additional charge of one-and-one-half percent (1.5%) (or the maximum percentage allowed by law, whichever is lower) of the invoiced amount per month for any payment received by HUITT-ZOLLARS more than thirty (30) calendar days from date of the invoice, excepting any portion of the invoiced amount in dispute and resolved in favor of CLIENT. Payment thereafter shall first be applied to accrued interest and then to the principal unpaid amount.

# HUITT-ZOLLARS

HUITT-ZOLLARS, INC. • 1500 South Dairy Ashford • Suite 200 • Houston, TX 77077-3858 • 281 496 0066 phone • 281 496 0220 fax • huitt-zollars.com

June 24, 2016

Mr. Brian Zhang  
Project Manager  
IDC, Inc.  
11111 Wilcrest Green Drive, Ste. 250  
Houston, Texas 77042

**Re: Proposal for Additional Professional Surveying Services  
Crabb River Road, Phase II**

Dear Mr. Zhang:

Huitt-Zollars, Inc. (Huitt-Zollars) appreciates the opportunity to provide this proposal for professional services to IDC, Inc. (Client) in connection with professional survey services along approximately 15,400 linear feet of Crabb River Road from the northern bank of Rabb's Bayou to approximately 1,200 feet south of Lamar Consolidated High School in Fort Bend County, Texas (Project). Our proposal is based upon the following scope of services, compensation, schedule and terms and conditions and attachments contained herein.

## **SCOPE OF SERVICES:**

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### **1.0 Basic Services:**

#### **1.1 Phase I**

Task 1: Prepare a metes and bounds description and a survey plat for a Temporary Construction Easement.

### **2.0 Deliverables:**

1. The survey shall be prepared in MicroStation. One signed and sealed (1) hard copy of the survey shall be provided to the Client. A signed and sealed document in PDF format will be delivered electronically.
2. An ASCII file with all of the point data will be delivered.
3. A signed and sealed metes and bounds description in PDF format will be delivered electronically.

### **3.0 Additional Service:**

Services not mentioned in the above Scope of Services will be completed based upon a mutually agreed new proposal and lump sum fee with prior written approval from the Client. Additional Services can include but are not limited to the following:

1. Certifying to another type of survey other than the type referenced above.
2. Changes in the limits of the survey.

### **4.0 Client Provided Services:**

The Client shall provide to Huitt-Zollars the following:

1. Any TxDOT or Ft. Bend County right-of-way maps and drawings, if available.

**COMPENSATION:**

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**1.0 Fee Budget**

1.1 Our estimated fee budget for the above services is as follows:

Task 1 \$ 2,440.00 (Lump Sum)

**2.0 Total Estimated Budget**

2.1 Our total estimated budget for this project is \$ 2,440.00.

**3.0 Invoicing**

3.1 Invoices will be submitted monthly. Lump sum tasks shall be invoiced based upon percentage of work completed. Hourly not to exceed tasks shall be compensated based upon the number of hours of direct work on the project at the hourly rates for each discipline in the attached Hourly Rate Sheet.

**SCHEDULE**

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The Scope of Services above shall be completed within approximately ten (10) business days from the receipt of the signed and executed contract.

**TERMS & CONDITIONS**

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Following are the Terms and Conditions that will apply to this AGREEMENT:

**1. AUTHORIZATION FOR WORK TO PROCEED**

Signing of this AGREEMENT for services shall be authorization by the CLIENT for HUITT-ZOLLARS, INC. to proceed with the work.

**2. ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COSTS**

Construction cost estimates provided by HUITT-ZOLLARS are prepared from experience and judgment. HUITT-ZOLLARS has no control over market conditions or construction procedures and does not warrant that proposals, bids, or actual construction costs will not vary from HUITT-ZOLLARS estimates.

**3. STANDARD OF CARE**

Services performed by HUITT-ZOLLARS under this AGREEMENT will be conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended in this AGREEMENT, or in any report, opinion, document or otherwise.

**4. TAXES**

All taxes, including but not limited to gross receipts tax, sales tax, etc., required to be paid will be billed to the CLIENT in addition to fees.

# CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

## OFFICE USE ONLY CERTIFICATION OF FILING

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**  
IDCUS Inc.  
Houston, TX United States

**Certificate Number:**  
2016-145023

**Date Filed:**  
12/12/2016

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**  
Fort Bend County

**Date Acknowledged:**

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**  
Project X28  
Project X28, Crabb River Road, First Amendment to Agreement for Professional Engineering Services – Design.

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

**5 Check only if there is NO Interested Party.**

**6 AFFIDAVIT** I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.



*[Handwritten Signature]*

Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said Larry Janak, this the 12th day of December 2016, to certify which, witness my hand and seal of office,

*[Handwritten Signature]*

Signature of officer administering oath

Kelly Bena

Printed name of officer administering oath

Marketing Manager

Title of officer administering oath

# CERTIFICATE OF INTERESTED PARTIES

FORM 1295

1 of 1

Complete Nos. 1 - 4 and 6 if there are interested parties.  
 Complete Nos. 1, 2, 3, 5, and 6 if there are no interested parties.

## OFFICE USE ONLY CERTIFICATION OF FILING

**1 Name of business entity filing form, and the city, state and country of the business entity's place of business.**  
 IDCUS Inc.  
 Houston, TX United States

**Certificate Number:**  
 2016-145023

**Date Filed:**  
 12/12/2016

**2 Name of governmental entity or state agency that is a party to the contract for which the form is being filed.**  
 Fort Bend County

**Date Acknowledged:**  
 12/20/2016

**3 Provide the identification number used by the governmental entity or state agency to track or identify the contract, and provide a description of the services, goods, or other property to be provided under the contract.**  
 Project X28  
 Project X28, Crabb River Road, First Amendment to Agreement for Professional Engineering Services – Design.

4	Name of Interested Party	City, State, Country (place of business)	Nature of interest (check applicable)	
			Controlling	Intermediary

**5 Check only if there is NO Interested Party.**

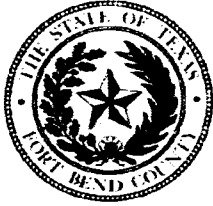
**6 AFFIDAVIT** I swear, or affirm, under penalty of perjury, that the above disclosure is true and correct.

\_\_\_\_\_  
 Signature of authorized agent of contracting business entity

AFFIX NOTARY STAMP / SEAL ABOVE

Sworn to and subscribed before me, by the said \_\_\_\_\_, this the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, to certify which, witness my hand and seal of office.

\_\_\_\_\_  
 Signature of officer administering oath      Printed name of officer administering oath      Title of officer administering oath



Fort Bend County Engineering  
FORT BEND COUNTY, TEXAS

Richard W. Stolleis, P.E.  
County Engineer

## MEMORANDUM

December 20, 2016

**TO: Members of the Commissioners Court**  
**RE: Crabb River Road, Project No. X28**

The total cost of the First Amendment is \$226,025.33. The funding will be transferred from the following project:

Doris Road – Mobility Bond Project No. 13105