



Planners - Engineers - Program Managers

PO 125695  
Rec 352684  
3/28/16

March 7, 2016

Mr. Richard W. Stolleis, P.E.  
Fort Bend County Engineer  
301 Jackson Street  
Richmond, Texas 77469

Re: Billing Period No. 10  
IDC Invoice No. 10692  
Services through February 2016  
Purchase Order No.: 125695  
Project No. 402-0402  
Crabb River Road PS&E  
From Rabbs Bayou to South of LCISD New HS/JHS Complex.

Dear Mr. Stolleis:

Enclosed is IDC's invoice for services performed through February 2016 in the amount of \$88,259.45 for your consideration and further handling. Two copies of the following documents are attached:

- Invoice No. 10692
- Progress Report No. 10

Sincerely,  
IDC Inc.

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

Larry F. Janak, P.E.  
Executive Vice President

**INVOICE**  
**IDC, INC.**  
**Fort Bend County - Crabb River Road PS&E**

Bill To:  
Mr. Richard Stolleis, P.E.  
County Engineer  
Fort Bend County  
301 Jackson Street  
Richmond, TX 77469

P.O. #: 125695  
Project #: 402-0402  
Contract Number:  
Invoice Number: 10692  
Invoice Date: March 7, 2016  
Billing Period: February 2016

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Amendment Contract Amount: \$ 2,165,059.00

**Total Contract: \$ 2,165,059.00**

Fee Earned: \$ 1,556,076.60

**Total Amount Earned: \$ 1,556,076.60**

Less Previously Invoiced: \$ 1,467,817.15

1,467,817.15

**Total Invoice Amount:**

**\$ 88,259.45**

*OK, JSS  
03/24/16*

WA Amount Remaining: \$ 608,982.40



INVOICE No. 10  
 CRABB RIVER ROAD PS&E  
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 2/29/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
<b>I. ROADWAY DESIGN</b>					
A. Typical Sections - Existing	\$10,933.00	100.0%	\$10,933.00	\$9,839.70	\$1,093.30
B. Crabb River Road Typ Sections - Proposed	\$42,971.00	80.0%	\$34,376.80	\$34,376.80	\$0.00
C. Proposed Typ Sections - Side streets	\$13,324.00	80.0%	\$10,659.20	\$9,993.00	\$666.20
D. Roadway P&P	\$141,167.00	80.0%	\$112,933.60	\$105,875.25	\$7,058.35
E. Horizontal Align Data	\$14,689.00	100.0%	\$14,689.00	\$13,220.10	\$1,468.90
F. Thompson Road P&P	\$23,853.00	80.0%	\$19,082.40	\$16,697.10	\$2,385.30
G. Intersections Layouts & Grading	\$53,992.00	75.0%	\$40,494.00	\$37,794.40	\$2,699.60
H. Misc Roadway Details	\$19,995.00	20.0%	\$3,999.00	\$1,999.50	\$1,999.50
I. Driveway Table & Details	\$10,991.00	60.0%	\$6,594.60	\$6,594.60	\$0.00
J. Roadway Standards	\$8,024.00		\$0.00	\$0.00	\$0.00
K. Roadway Summaries	\$24,467.00	30.0%	\$7,340.10	\$4,893.40	\$2,446.70
<b>Subtotal</b>	<b>\$364,406.00</b>	<b>71.7%</b>	<b>\$261,101.70</b>	<b>\$241,283.85</b>	<b>\$19,817.85</b>
<b>II. DRAINAGE DESIGN</b>					
A. Drainage Area Watershed Map	\$7,118.00	80.0%	\$5,694.40	\$5,694.40	\$0.00
B. DA Layouts	\$45,105.00	80.0%	\$36,084.00	\$36,084.00	\$0.00
C. Drainage P&P	\$99,330.00	75.0%	\$74,497.50	\$69,531.00	\$4,966.50
D. Thompson Road Drainage P&P	\$26,221.00	75.0%	\$19,665.75	\$18,354.70	\$1,311.05
E. Crabb River Road Drainage Calcs	\$43,790.00	75.0%	\$32,842.50	\$30,653.00	\$2,189.50
F. Drainage Ditch Calcs	\$6,554.00	75.0%	\$4,915.50	\$4,587.80	\$327.70
G. Rabbs Bayou Bridge Calcs	\$13,871.00	75.0%	\$10,403.25	\$9,709.70	\$693.55
H. Gapps Slough Drainage Calcs	\$13,871.00	75.0%	\$10,403.25	\$9,709.70	\$693.55
I. Lateral Sheets	\$43,380.00	70.0%	\$30,366.00	\$28,197.00	\$2,169.00
J. Misc Drainage Details	\$13,242.00	25.0%	\$3,310.50	\$1,324.20	\$1,986.30
K. Detention Pond - Rabbs Bayou	\$18,328.00	70.0%	\$12,829.60	\$10,986.80	\$1,842.80
L. Detention Pond #1 - Gapps Slough	\$14,850.00	70.0%	\$10,395.00	\$8,910.00	\$1,485.00
M. Detention Pond #2 - Gapps Slough	\$14,850.00	70.0%	\$10,395.00	\$8,910.00	\$1,485.00
N. Drainage Standards	\$8,676.00		\$0.00	\$0.00	\$0.00
O. Drainage Summaries	\$14,821.00	30.0%	\$4,446.30	\$2,964.20	\$1,482.10
<b>Subtotal</b>	<b>\$384,007.00</b>	<b>69.3%</b>	<b>\$266,248.55</b>	<b>\$245,826.60</b>	<b>\$20,622.05</b>
<b>III. SIGNING &amp; PAVEMENT MARKINGS</b>					
A. Sign & Pavement Marking Layouts	48,555.00	80.0%	\$38,844.00	\$36,416.25	\$2,427.75
B. Small Sign Summary	9,626.00	50.0%	\$4,813.00	\$4,813.00	\$0.00
C. Pavement Marking Summary	9,626.00	30.0%	\$2,887.80	\$1,925.20	\$962.60
D. Standard Details & Existing Sign Inventory	9,626.00	30.0%	\$2,887.80	\$1,925.20	\$962.60
<b>Subtotal</b>	<b>77,433.00</b>	<b>63.8%</b>	<b>49,432.60</b>	<b>45,079.65</b>	<b>4,352.95</b>
<b>IV. TRAFFIC SIGNALIZATION</b>					
A. Signal Warrant - Tara Dr.	\$8,675.00	80.0%	\$6,940.00	\$6,506.25	\$433.75
B. Signal Warrant - Thompson Rd	\$8,676.00	80.0%	\$6,940.80	\$6,507.00	\$433.80
C. Signal Warrant - School Entrance	\$8,676.00	80.0%	\$6,940.80	\$6,507.00	\$433.80
D. Signal Design - Tara Dr.	\$23,123.00	75.0%	\$17,342.25	\$16,186.10	\$1,156.15
E. Signal Design - Thompsons Rd.	\$23,123.00	75.0%	\$17,342.25	\$16,186.10	\$1,156.15
F. Signal Design - School Entrance	\$23,123.00	75.0%	\$17,342.25	\$16,186.10	\$1,156.15
<b>Subtotal</b>	<b>\$95,396.00</b>	<b>76.4%</b>	<b>\$72,848.35</b>	<b>\$68,078.55</b>	<b>\$4,769.80</b>
<b>V. MISCELLANEOUS ROADWAY</b>					
A. Title Sheet	\$9,457.00	60.0%	\$5,674.20	\$5,674.20	\$0.00
B. Index Sheet	\$11,284.00	30.0%	\$3,385.20	\$3,385.20	\$0.00
C. Project Layout Sheet	\$41,480.00	80.0%	\$33,184.00	\$33,184.00	\$0.00
D. Demo Sheet	\$31,307.00	75.0%	\$23,480.25	\$21,914.90	\$1,565.35
E. Design Cross Sections	\$54,664.00	70.0%	\$38,264.80	\$35,531.60	\$2,733.20
F. Existing Utility Layouts	\$35,371.00	70.0%	\$24,759.70	\$24,759.70	\$0.00
G. Proposed Utility Plan	\$35,371.00	60.0%	\$21,222.60	\$17,685.50	\$3,537.10
H. Utility Details	\$18,766.00	10.0%	\$1,876.60	\$0.00	\$1,876.60
I. Utility Summaries	\$9,517.00		\$0.00	\$0.00	\$0.00
J. BNSF RR Exhibit	\$11,694.00	100.0%	\$11,694.00	\$11,694.00	\$0.00
<b>Subtotal</b>	<b>\$258,911.00</b>	<b>63.2%</b>	<b>\$163,541.35</b>	<b>\$163,829.10</b>	<b>\$9,712.25</b>



INVOICE No. 10  
 CRABB RIVER ROAD PS&E  
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 2/29/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
<b>VI. GENERAL NOTES &amp; SPECIFICATIONS</b>					
A. Prepare General Notes & Spec List	17,188.00		\$0.00	\$0.00	\$0.00
B. Prepare Special Specs & Provisions	17,189.00		\$0.00	\$0.00	\$0.00
<b>Subtotal</b>	<b>34,377.00</b>	<b>0.0%</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>VII. CONSTRUCTION COST ESTIMATE</b>					
A. Estimate Const Cost At 30%, 60%, 90%, 100% & Final	20,112.00	60.0%	\$12,067.20	\$12,067.20	\$0.00
<b>Subtotal</b>	<b>20,112.00</b>	<b>60.0%</b>	<b>12,067.20</b>	<b>12,067.20</b>	<b>0.00</b>
<b>VIII. ASSEMBLE PS&amp;E</b>					
A. 30%	\$7,302.00	100.0%	\$7,302.00	\$7,302.00	\$0.00
B. 60%	\$7,302.00	100.0%	\$7,302.00	\$7,302.00	\$0.00
C. 90%	\$7,302.00		\$0.00	\$0.00	\$0.00
D. Final Submittal	\$7,303.00		\$0.00	\$0.00	\$0.00
<b>Subtotal</b>	<b>\$29,209.00</b>	<b>50.0%</b>	<b>\$14,604.00</b>	<b>\$14,604.00</b>	<b>\$0.00</b>
<b>IX. PROJECT MANAGEMENT &amp; COORDINATION</b>					
A. Coord. w/ Co., TxDOT & Subs	\$49,110.00	70.0%	\$34,377.00	\$31,921.50	\$2,455.50
B. Monthly Progress Reports & Invoices	\$27,770.00	70.0%	\$19,439.00	\$18,050.50	\$1,388.50
C. Project Admin	\$32,945.00	70.0%	\$23,061.50	\$21,414.25	\$1,647.25
D. Prep & Update Schedule	\$38,995.00	70.0%	\$27,296.50	\$25,346.75	\$1,949.75
E. Attend Progress Meetings	\$28,794.00	70.0%	\$20,155.80	\$18,716.10	\$1,439.70
F. Coord. with Utilities	\$28,794.00	70.0%	\$20,155.80	\$17,276.40	\$2,879.40
G. QA/QC plan	\$24,847.00	60.0%	\$14,908.20	\$14,908.20	\$0.00
<b>Subtotal</b>	<b>\$231,255.00</b>	<b>68.9%</b>	<b>\$159,393.80</b>	<b>\$147,633.70</b>	<b>\$11,760.10</b>
<b>Total IDC Labor</b>	<b>\$1,495,106.00</b>	<b>66.8%</b>	<b>\$999,237.55</b>	<b>\$928,202.55</b>	<b>\$71,035.00</b>
<b>Direct Costs</b>					
A. IDC Expenses	\$7,226.00	55.0%	\$3,974.30	\$3,613.00	\$361.30
<b>Total Direct Costs</b>	<b>\$7,226.00</b>	<b>55.0%</b>	<b>\$3,974.30</b>	<b>\$3,613.00</b>	<b>\$361.30</b>
<b>TOTAL IDC COSTS</b>	<b>1,502,332.00</b>	<b>66.8%</b>	<b>1,003,211.85</b>	<b>931,815.55</b>	<b>71,396.30</b>
<b>SUBCONSULTANTS</b>					
<b>X. PROJECT COORD &amp; ADMIN - PB</b>					
A. Coordination	\$7,600.00	80.0%	\$6,080.00	\$5,700.00	\$380.00
B. Meetings	\$5,059.00	80.0%	4,047.20	\$3,794.25	\$252.95
C. QA/QC	\$8,918.00	80.0%	\$7,134.40	\$6,688.50	\$445.90
<b>Subtotal</b>	<b>\$21,577.00</b>	<b>80.0%</b>	<b>\$17,261.60</b>	<b>\$16,182.75</b>	<b>\$1,078.85</b>
<b>XI. SW3P PLANS - PB</b>					
A. General Notes	\$1,026.00	80.0%	\$820.80	\$769.50	\$51.30
B. Plans	\$29,997.00	80.0%	23,997.6000	\$22,497.75	\$1,499.85
<b>Subtotal</b>	<b>\$31,023.00</b>	<b>80.0%</b>	<b>\$24,818.40</b>	<b>\$23,267.25</b>	<b>\$1,551.15</b>
<b>XII. TRAFFIC CONTROL PLANS - PB</b>					
A. TCP Narrative & Notes	\$11,107.00	80.0%	8,885.60	\$8,330.25	\$555.35
B. Advance Warning Signs	\$4,330.00	80.0%	3,464.00	\$3,247.50	\$216.50
C. TCP Layouts	\$67,504.00	80.0%	54,003.20	\$50,628.00	\$3,375.20
D. TCP Details	\$8,801.00	80.0%	7,040.80	\$6,600.75	\$440.05
<b>Subtotal</b>	<b>\$91,742.00</b>	<b>80.0%</b>	<b>73,393.60</b>	<b>\$68,806.50</b>	<b>\$4,587.10</b>
<b>XIII. GAPPS SLOUGH BRIDGE CLASS CULVERT - PB</b>					
A. Culvert Layout	\$3,982.00	80.0%	3,185.60	\$2,986.50	\$199.10
B. Culvert Details	\$16,183.00	80.0%	12,946.40	\$12,137.25	\$809.15
<b>Subtotal</b>	<b>\$20,165.00</b>	<b>80.0%</b>	<b>16,132.00</b>	<b>\$15,123.75</b>	<b>\$1,008.25</b>
<b>XIV. RABBS BAYOU BRIDGE - PB</b>					
A. Bridge Layouts	\$15,758.00	80.0%	\$12,606.40	\$11,818.50	\$787.90
B. Bridge Details	\$100,413.00	80.0%	80,330.40	\$75,309.75	\$5,020.65
<b>Subtotal</b>	<b>\$116,171.00</b>	<b>80.0%</b>	<b>\$92,936.80</b>	<b>\$87,128.25</b>	<b>\$5,808.55</b>



INVOICE No. 10  
 CRABB RIVER ROAD PS&E  
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 2/29/2016

TASK DESCRIPTION	CONTRACT AMOUNT	PERCENT COMPLETE	INVOICED TO DATE	PREVIOUSLY INVOICED	AMOUNT THIS INVOICE
<b>XV. NOISE WALLS - PB</b>					
A. Wall Layout NB-1A	\$4,947.00	80.0%	\$3,957.60	\$3,710.25	\$247.35
B. Wall Layout NB-1B	\$6,218.00	80.0%	\$4,974.40	\$4,663.50	\$310.90
C. Wall Layout NB-2	\$6,218.00	80.0%	\$4,974.40	\$4,663.50	\$310.90
D. Wall Layout NB-3	\$6,218.00	80.0%	\$4,974.40	\$4,663.50	\$310.90
E. Summaries & Standards	\$8,918.00	80.0%	\$7,134.40	\$6,688.50	\$445.90
<b>Subtotal</b>	<b>\$32,519.00</b>	<b>80.0%</b>	<b>\$26,015.20</b>	<b>\$24,389.25</b>	<b>\$1,625.95</b>
<b>XVI. SAFETY LIGHTING - PB</b>					
A. Lighting Plans	\$7,212.00		\$0.00	\$0.00	\$0.00
B. Details & Summaries	\$7,935.00		\$0.00	\$0.00	\$0.00
<b>Subtotal</b>	<b>\$15,147.00</b>	<b>0.0%</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>
<b>XVII. SUBMITTALS - PB</b>					
A. Plot Drawings	\$11,706.00	80.0%	\$9,364.80	\$8,779.50	\$585.30
B. Cost Estimates	\$3,765.00	80.0%	\$3,012.00	\$2,823.75	\$188.25
<b>Subtotal</b>	<b>\$15,471.00</b>	<b>80.0%</b>	<b>\$12,376.80</b>	<b>\$11,603.25</b>	<b>\$773.55</b>
<b>Total PB Labor</b>	<b>\$343,815.00</b>	<b>76.5%</b>	<b>\$262,934.40</b>	<b>\$246,501.00</b>	<b>\$16,433.40</b>
A. PB Expenses	\$8,595.00	80.0%	\$6,876.00	\$6,446.25	\$429.75
<b>TOTAL PB COSTS</b>	<b>352,410.00</b>	<b>76.6%</b>	<b>269,810.40</b>	<b>252,947.25</b>	<b>16,863.15</b>
<b>XVIII. GEOTECHNICAL INVESTIGATIONS - HTS</b>					
A. Field Work	\$22,425.00	100.0%	\$22,425.00	\$22,425.00	\$0.00
B. Install Piezometer	\$2,416.00	100.0%	\$2,416.00	\$2,416.00	\$0.00
C. Lab Testing	\$17,501.00	90.0%	\$15,750.90	\$15,750.90	\$0.00
D. Prepare Report	\$17,670.00	3.9%	\$689.10	\$689.10	\$0.00
<b>Total</b>	<b>\$60,012.00</b>	<b>68.8%</b>	<b>\$41,281.00</b>	<b>\$41,281.00</b>	<b>\$0.00</b>
<b>XIX. FIELD SURVEYING &amp; ROW MAPPING - HZI</b>					
A. Acquire ROE	\$3,000.00	100.0%	\$3,000.00	\$3,000.00	\$0.00
B. Set Control & Topographic Surveys	\$90,000.00	100.0%	\$90,000.00	\$90,000.00	\$0.00
C. Cross Section Rabb's Bayou & Gapp's Slough	\$6,380.00	100.0%	\$6,380.00	\$6,380.00	\$0.00
D. Prepare ROW Maps & Documents	\$38,920.00	97.2%	\$37,836.60	\$37,836.60	\$0.00
E. Deed Research & ROW Monumentation	\$64,205.00	88.4%	\$56,756.75	\$56,756.75	\$0.00
F. BNSF RR Survey	\$17,880.00	100.0%	\$17,880.00	\$17,880.00	\$0.00
G. Survey Thompson's Road	\$14,260.00	100.0%	\$14,260.00	\$14,260.00	\$0.00
H. Detention Pond Survey	\$15,660.00	100.0%	\$15,660.00	\$15,660.00	\$0.00
<b>Total</b>	<b>\$250,305.00</b>	<b>96.6%</b>	<b>\$241,773.35</b>	<b>\$241,773.35</b>	<b>\$0.00</b>
<b>TOTAL PROJECT</b>	<b>\$2,165,059.00</b>	<b>71.9%</b>	<b>\$1,556,076.60</b>	<b>\$1,467,817.15</b>	<b>\$88,259.45</b>



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Planners – Engineers – Program Managers

**CRABB RIVER ROAD  
PS&E PHASE  
PROGRESS REPORT NO. 10  
February 2016**

**Activities During Current Reporting Period**

**Task I. Roadway Design**

- Advancing overall design to 90%.
- Refined profile north of Thompson's Road.
- Continuing design on intersection layout/grading plans.

**Task II. Drainage Design**

- Advancing overall design to 90%.
- Refining drainage design in vicinity of Gapps Slough to incorporate current information in drainage report.
- Continuing detention pond design.

**Task III. Signing & Pavement Markings**

- Advancing overall design to 90%.
- Refining signing/pavement marking layouts.

**Task IV. Traffic Signals**

- Incorporated minor comments into Warrant Studies.
- Advancing overall design to 90%.

**Task V. Miscellaneous Roadway**

- Conducted 60% coordination meeting with utility companies on February 3, 2016.
- Updated cross sections.

**Task VI. General Notes & Specifications**

- This task has not started.

**Task VII. Construction Cost Estimate**

- No activity this period.

**Task VIII. Assemble PS&E**

- No activity this period.

**Task IX. Project Management & Coordination**

- Conducted progress meeting with TxDOT PM.
- Submitted invoice & progress report.

- Updated project schedule.
- Updated County on progress.
- Prepare & submit proposal for extra work to County.

**Task X. Project Coordination & Administration – PB**

- Attended design team meetings.

**Task XI. SW3P Plans – PB**

- Advancing design to 90%.

**Task XII. Traffic Control Plans – PB**

- Scheduled TCAT meeting for March.
- Preparing plans for TCAT meeting.

**Task XIII. Gapps Slough Bridge Class Culvert– PB**

- Continued design of bridge class culvert details.
- Incorporating drainage report information into design.

**Task XIV. Rabbs Bayou Bridge– PB**

- Continued design of bridge.
- Preparing formal bridge layout submittal to TxDOT.

**Task XV. Noise Walls – PB**

- Incorporating changes from noise model into design layouts.

**Task XVI. Safety Lighting – PB**

- This task has not started.

**Task XVII. Submittals – PB**

- Advancing plans to 90% submittal.

**Task XVIII. Geotechnical Investigations – HTS**

- No activity reported this period.

**Task XIX. Field Surveying & ROW Mapping – HZI**

- No activity reported this period.

**Activities Anticipated Next Reporting Period**

- Conduct QA review prior to 90% submittal.
- Submit 90% PS&E.
- Monitor status of RR exhibit review.
- Formally submit bridge layouts for TxDOT approval.
- Conduct TCAT meeting

## Peterson, Jillian

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**From:** Don Durgin <Don.Durgin@klotz.com>  
**Sent:** Tuesday, March 22, 2016 8:20 AM  
**To:** Peterson, Jillian  
**Subject:** PO 125695 - X28 CRR Design Invoice 009 & 010  
**Attachments:** X28 CRR Invoice 009 - 10677.pdf; X28 CRR Invoice 010 - 10692.pdf

Jillian,

I have reviewed the two attached invoices and recommend approval. Please process for payment against PO 125695.  
Thanks.

I'm not sure why the invoice 009 came so late, but it covers their January charges corresponding to their invoicing cycles.

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**Donald M. Durgin, P.E.**  
**Transportation Practice Manager - RPS Klotz Associates**  
1160 Dairy Ashford, Suite 500  
Houston, Texas, 77079  
**Tel:** 281 589 7257  
**Mobile:** 713 269 3913  
**Email:** [Don.Durgin@klotz.com](mailto:Don.Durgin@klotz.com)  
**www:** [rpsgroup.com](http://rpsgroup.com) | [klotz.com](http://klotz.com)

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