



Planners - Engineers - Program Managers

PO 125695
Rec 311355
12/22/15
MP

December 11, 2015

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

Re: Billing Period No. 7
IDC Invoice No. 10646
Services through November 2015
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 revised invoice for services performed through November 2015 in the amount of \$175,794.65 for your consideration and further handling. Two copies of the following documents are attached:

- Invoice No. 10646
- Progress Report No. 7

Sincerely,
IDC Inc.

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: 10646
Invoice Date: December 11, 2015
Billing Period: November 2015

Amendment Contract Amount: \$ 2,165,059.00

Total Contract: \$ 2,165,059.00

Fee Earned: \$ 1,070,916.50

Total Amount Earned: \$ 1,070,916.50

Less Previously Invoiced: \$ 895,121.85

895,121.85

Total Invoice Amount: \$ 175,794.65

*OK, JSS
12/22/15*

WA Amount Remaining: \$ 1,094,142.50



Planners – Engineers – Program Managers

**CRABB RIVER ROAD
PS&E PHASE
PROGRESS REPORT NO. 7
November 2015**

Activities During Current Reporting Period

Task I. Roadway Design

- Continued incorporating review comments.
- Advancing plans for 60% submittal.

Task II. Drainage Design

- Continued incorporating review comments.
- DA layouts finished.
- Continuing work on storm sewer design.
- Continuing work on detention pond layouts.
- Advancing plans for 60% submittal.
- Met with TxDOT, County and homeowners from Bridlewood subdivision to discuss flooding issues in their neighborhood.

Task III. Signing & Pavement Markings

- Continued preparing signing/stripping plans for 60% submittal.

Task IV. Traffic Signals

- Submitted signal warrant studies for review.
- Continued preparing traffic signal layouts.

Task V. Miscellaneous Roadway

- Continuing coordination with utility companies.
- Updated demo sheets
- Continued developing cross sections.
- Project layout sheets ready for 60% submittal.

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

- Met with TxDOT to review initial comments.
- Conducted progress meeting with TxDOT PM.
- Prepared & submitted invoice & progress report.
- Updated project schedule.
- Met with County to update on project.
- Conducted TCP Concept meeting

Task X. Project Coordination & Administration – PB

- Attended design team meetings.
- Attended TCP concept meeting.

Task XI. SW3P Plans – PB

- Began preparing SW3P layouts.

Task XII. Traffic Control Plans – PB

- Began incorporating comments from TCP meeting.

Task XIII. Gapps Slough Bridge Class Culvert– PB

- Continued design of bridge layout & started details.

Task XIV. Rabbs Bayou Bridge– PB

- Continued design of bridge.

Task XV. Noise Walls – PB

- Continued noise wall layouts design.

Task XVI. Safety Lighting – PB

- This task has not started.

Task XVII. Submittals – PB

- Advancing plans for 60% 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

- Submit 60% review plans.
- Monitor status of RR exhibit review.
- Submit preliminary ROW maps for County & TxDOT review.



INVOICE No. 7
 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 11/30/2015

| TASK DESCRIPTION | CONTRACT AMOUNT | PERCENT COMPLETE | INVOICED TO DATE | PREVIOUSLY INVOICED | AMOUNT THIS INVOICE |
|---|---------------------|------------------|---------------------|---------------------|---------------------|
| I. ROADWAY DESIGN | | | | | |
| A. Typical Sections - Existing | \$10,933.00 | 90.0% | \$9,839.70 | \$9,839.70 | \$0.00 |
| B. Crabb River Road Typ Sections - Proposed | \$42,971.00 | 80.0% | \$34,376.80 | \$32,228.25 | \$2,148.55 |
| C. Proposed Typ Sections - Side streets | \$13,324.00 | 60.0% | \$7,994.40 | \$6,662.00 | \$1,332.40 |
| D. Roadway P&P | \$141,167.00 | 50.0% | \$70,583.50 | \$70,583.50 | \$0.00 |
| E. Horizontal Align Data | \$14,689.00 | 90.0% | \$13,220.10 | \$13,220.10 | \$0.00 |
| F. Thompson Road P&P | \$23,853.00 | 50.0% | \$11,926.50 | \$11,926.50 | \$0.00 |
| G. Intersections Layouts & Grading | \$53,992.00 | 40.0% | \$21,596.80 | \$16,197.60 | \$5,399.20 |
| H. Misc Roadway Details | \$19,995.00 | | \$0.00 | \$0.00 | \$0.00 |
| I. Driveway Table & Details | \$10,991.00 | 10.0% | \$1,099.10 | \$1,099.10 | \$0.00 |
| J. Roadway Standards | \$8,024.00 | | \$0.00 | \$0.00 | \$0.00 |
| K. Roadway Summaries | \$24,467.00 | | \$0.00 | \$0.00 | \$0.00 |
| Subtotal | \$364,406.00 | 46.8% | \$170,636.90 | \$161,756.75 | \$8,880.15 |
| II. DRAINAGE DESIGN | | | | | |
| A. Drainage Area Watershed Map | \$7,118.00 | 80.0% | \$5,694.40 | \$5,694.40 | \$0.00 |
| B. DA Layouts | \$45,105.00 | 75.0% | \$33,828.75 | \$33,828.75 | \$0.00 |
| C. Drainage P&P | \$99,330.00 | 50.0% | \$49,665.00 | \$39,732.00 | \$9,933.00 |
| D. Thompson Road Drainage P&P | \$26,221.00 | 50.0% | \$13,110.50 | \$10,488.40 | \$2,622.10 |
| E. Crabb River Road Drainage Calcs | \$43,790.00 | 50.0% | \$21,895.00 | \$17,516.00 | \$4,379.00 |
| F. Drainage Ditch Calcs | \$6,554.00 | 50.0% | \$3,277.00 | \$2,621.60 | \$655.40 |
| G. Rabbs Bayou Bridge Calcs | \$13,871.00 | 50.0% | \$6,935.50 | \$5,548.40 | \$1,387.10 |
| H. Gapps Slough Drainage Calcs | \$13,871.00 | 50.0% | \$6,935.50 | \$5,548.40 | \$1,387.10 |
| I. Lateral Sheets | \$43,380.00 | 50.0% | \$21,690.00 | \$10,845.00 | \$10,845.00 |
| J. Misc Drainage Details | \$13,242.00 | | \$0.00 | \$0.00 | \$0.00 |
| K. Detention Pond - Rabbs Bayou | \$18,328.00 | 50.0% | \$9,164.00 | \$7,331.20 | \$1,832.80 |
| L. Detention Pond #1 - Gapps Slough | \$14,850.00 | 50.0% | \$7,425.00 | \$5,940.00 | \$1,485.00 |
| M. Detention Pond #2 - Gapps Slough | \$14,850.00 | 50.0% | \$7,425.00 | \$5,940.00 | \$1,485.00 |
| N. Drainage Standards | \$8,676.00 | | \$0.00 | \$0.00 | \$0.00 |
| O. Drainage Summaries | \$14,821.00 | | \$0.00 | \$0.00 | \$0.00 |
| Subtotal | \$384,007.00 | 48.7% | \$187,045.65 | \$151,034.15 | \$36,011.50 |
| III. SIGNING & PAVEMENT MARKINGS | | | | | |
| A. Sign & Pavement Marking Layouts | 48,555.00 | 25.0% | \$12,138.75 | \$4,855.50 | \$7,283.25 |
| B. Small Sign Summary | 9,626.00 | | \$0.00 | \$0.00 | \$0.00 |
| C. Pavement Marking Summary | 9,626.00 | | \$0.00 | \$0.00 | \$0.00 |
| D. Standard Details & Existing Sign Inventory | 9,626.00 | | \$0.00 | \$0.00 | \$0.00 |
| Subtotal | 77,433.00 | 15.7% | 12,138.75 | 4,855.50 | 7,283.25 |
| IV. TRAFFIC SIGNALIZATION | | | | | |
| A. Signal Warrant - Tara Dr. | \$8,675.00 | 60.0% | \$5,205.00 | \$2,168.75 | \$3,036.25 |
| B. Signal Warrant - Thompson Rd | \$8,676.00 | 60.0% | \$5,205.60 | \$2,169.00 | \$3,036.60 |
| C. Signal Warrant - School Entrance | \$8,676.00 | 60.0% | \$5,205.60 | \$2,169.00 | \$3,036.60 |
| D. Signal Design - Tara Dr. | \$23,123.00 | 45.0% | \$10,405.35 | \$8,093.05 | \$2,312.30 |
| E. Signal Design - Thompsons Rd. | \$23,123.00 | 45.0% | \$10,405.35 | \$8,093.05 | \$2,312.30 |
| F. Signal Design - School Entrance | \$23,123.00 | 45.0% | \$10,405.35 | \$8,093.05 | \$2,312.30 |
| Subtotal | \$95,395.00 | 49.1% | \$46,832.25 | \$30,785.90 | \$16,046.35 |
| V. MISCELLANEOUS ROADWAY | | | | | |
| A. Title Sheet | \$9,457.00 | 30.0% | \$2,837.10 | \$2,837.10 | \$0.00 |
| B. Index Sheet | \$11,284.00 | | \$0.00 | \$0.00 | \$0.00 |
| C. Project Layout Sheet | \$41,480.00 | 60.0% | \$24,888.00 | \$16,592.00 | \$8,296.00 |
| D. Demo Sheet | \$31,307.00 | 50.0% | \$15,653.50 | \$6,261.40 | \$9,392.10 |
| E. Design Cross Sections | \$54,664.00 | 40.0% | \$21,865.60 | \$13,666.00 | \$8,199.60 |
| F. Existing Utility Layouts | \$35,371.00 | 50.0% | \$17,685.50 | \$14,148.40 | \$3,537.10 |
| G. Proposed Utility Plan. | \$35,371.00 | 10.0% | \$3,537.10 | \$0.00 | \$3,537.10 |
| H. Utility Details | \$18,766.00 | | \$0.00 | \$0.00 | \$0.00 |
| 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 |
| Subtotal | \$258,911.00 | 37.9% | \$98,160.80 | \$65,198.90 | \$32,961.90 |



INVOICE No. 7
 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 11/30/2015

| TASK DESCRIPTION | CONTRACT AMOUNT | PERCENT COMPLETE | INVOICED TO DATE | PREVIOUSLY INVOICED | AMOUNT THIS INVOICE |
|---|-----------------------|------------------|---------------------|---------------------|---------------------|
| VI. GENERAL NOTES & SPECIFICATIONS | | | | | |
| 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 |
| Subtotal | 34,377.00 | 0.0% | 0.00 | 0.00 | 0.00 |
| VII. CONSTRUCTION COST ESTIMATE | | | | | |
| A. Estimate Const Cost At 30%, 60%, 90%, 100% & Final | 20,112.00 | 30.0% | \$6,033.60 | \$6,033.60 | \$0.00 |
| Subtotal | 20,112.00 | 30.0% | 6,033.60 | 6,033.60 | 0.00 |
| VIII. ASSEMBLE PS&E | | | | | |
| A. 30% | \$7,302.00 | 100.0% | \$7,302.00 | \$7,302.00 | \$0.00 |
| B. 60% | \$7,302.00 | | \$0.00 | \$0.00 | \$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 |
| Subtotal | \$29,209.00 | 25.0% | \$7,302.00 | \$7,302.00 | \$0.00 |
| IX. PROJECT MANAGEMENT & COORDINATION | | | | | |
| A. Coord. w/ Co., TxDOT & Subs | \$49,110.00 | 50.0% | \$24,555.00 | \$19,644.00 | \$4,911.00 |
| B. Monthly Progress Reports & Invoices | \$27,770.00 | 50.0% | \$13,885.00 | \$11,108.00 | \$2,777.00 |
| C. Project Admin | \$32,945.00 | 50.0% | \$16,472.50 | \$13,178.00 | \$3,294.50 |
| D. Prep & Update Schedule | \$38,995.00 | 50.0% | \$19,497.50 | \$15,598.00 | \$3,899.50 |
| E. Attend Progress Meetings | \$28,794.00 | 50.0% | \$14,397.00 | \$11,517.60 | \$2,879.40 |
| F. Coord. with Utilities | \$28,794.00 | 50.0% | \$14,397.00 | \$7,198.50 | \$7,198.50 |
| G. QA/QC plan | \$24,847.00 | 30.0% | \$7,454.10 | \$6,211.75 | \$1,242.35 |
| Subtotal | \$231,255.00 | 47.9% | \$110,658.10 | \$84,455.85 | \$26,202.25 |
| Total IDC Labor | \$1,495,106.00 | 42.7% | \$638,808.05 | \$511,422.65 | \$127,385.40 |
| Direct Costs | | | | | |
| A. IDC Expenses | \$7,226.00 | 30.00% | \$2,167.80 | \$1,445.20 | \$722.60 |
| Total Direct Costs | \$7,226.00 | 30.0% | \$2,167.80 | \$1,445.20 | \$722.60 |
| TOTAL IDC COSTS | 1,502,332.00 | 42.7% | 640,975.85 | 512,867.85 | 128,108.00 |
| SUBCONSULTANTS | | | | | |
| X. PROJECT COORD & ADMIN - PB | | | | | |
| A. Coordination | \$7,600.00 | 55.0% | \$4,180.00 | \$3,420.00 | \$760.00 |
| B. Meetings | \$5,059.00 | 55.0% | \$2,782.45 | \$2,276.55 | \$505.90 |
| C. QA/QC | \$8,918.00 | 55.0% | \$4,904.90 | \$4,013.10 | \$891.80 |
| Subtotal | \$21,577.00 | 55.0% | \$11,867.35 | \$9,709.65 | \$2,157.70 |
| XI. SW3P PLANS - PB | | | | | |
| A. General Notes | \$1,026.00 | 55.0% | \$564.30 | | \$564.30 |
| B. Plans | \$29,997.00 | 55.0% | \$16,498.35 | | \$16,498.35 |
| Subtotal | \$31,023.00 | 55.0% | \$17,062.65 | \$0.00 | \$17,062.65 |
| XII. TRAFFIC CONTROL PLANS - PB | | | | | |
| A. TCP Narrative & Notes | \$11,107.00 | 55.0% | 6,108.85 | \$4,998.15 | \$1,110.70 |
| B. Advance Warning Signs | \$4,330.00 | 55.0% | 2,381.50 | \$1,948.50 | \$433.00 |
| C. TCP Layouts | \$67,504.00 | 55.0% | 37,127.20 | \$30,376.80 | \$6,750.40 |
| D. TCP Details | \$8,801.00 | 55.0% | 4,840.55 | \$3,960.45 | \$880.10 |
| Subtotal | \$91,742.00 | 55.0% | 50,458.10 | \$41,283.90 | \$9,174.20 |
| XIII. GAPPS SLOUGH BRIDGE CLASS CULVERT - PB | | | | | |
| A. Culvert Layout | \$3,982.00 | 55.0% | 2,190.10 | \$1,791.90 | \$398.20 |
| B. Culvert Details | \$16,183.00 | 55.0% | 8,900.65 | \$7,282.35 | \$1,618.30 |
| Subtotal | \$20,165.00 | 55.0% | 11,090.75 | \$9,074.25 | \$2,016.50 |
| XIV. RABBS BAYOU BRIDGE - PB | | | | | |
| A. Bridge Layouts | \$15,758.00 | 55.0% | \$8,666.90 | \$7,091.10 | \$1,575.80 |
| B. Bridge Details | \$100,413.00 | 55.0% | \$55,227.15 | \$45,185.85 | \$10,041.30 |
| Subtotal | \$116,171.00 | 55.0% | \$63,894.05 | \$52,276.95 | \$11,617.10 |



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 CRABB RIVER ROAD PS&E
 SCHEDULE OF VALUES

PS&E PHASE

SERVICES THROUGH: 11/30/2015

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|---|-----------------------|------------------|-----------------------|---------------------|---------------------|
| XV. NOISE WALLS - PB | | | | | |
| A. Wall Layout NB-1A | \$4,947.00 | 55.0% | \$2,720.85 | \$2,226.15 | \$494.70 |
| B. Wall Layout NB-1B | \$6,218.00 | 55.0% | \$3,419.90 | \$2,798.10 | \$621.80 |
| C. Wall Layout NB-2 | \$6,218.00 | 55.0% | \$3,419.90 | \$2,798.10 | \$621.80 |
| D. Wall Layout NB-3 | \$6,218.00 | 55.0% | \$3,419.90 | \$2,798.10 | \$621.80 |
| E. Summaries & Standards | \$8,918.00 | 55.0% | \$4,904.90 | \$4,013.10 | \$891.80 |
| Subtotal | \$32,519.00 | 55.0% | \$17,885.45 | \$14,633.55 | \$3,251.90 |
| XVI. SAFETY LIGHTING - PB | | | | | |
| A. Lighting Plans | \$7,212.00 | | \$0.00 | \$0.00 | \$0.00 |
| B. Details & Summaries | \$7,935.00 | | \$0.00 | \$0.00 | \$0.00 |
| Subtotal | \$15,147.00 | 0.0% | \$0.00 | \$0.00 | \$0.00 |
| XVII. SUBMITTALS - PB | | | | | |
| A. Plot Drawings | \$11,706.00 | 55.0% | \$6,438.30 | \$5,267.70 | \$1,170.60 |
| B. Cost Estimates | \$3,765.00 | 55.0% | \$2,070.75 | \$1,694.25 | \$376.50 |
| Subtotal | \$15,471.00 | 55.0% | \$8,509.05 | \$6,961.95 | \$1,547.10 |
| Total PB Labor | \$343,815.00 | 52.6% | \$180,767.40 | \$133,940.25 | \$46,827.15 |
| A. PB Expenses | \$8,595.00 | 55.0% | \$4,727.25 | \$3,867.75 | \$859.50 |
| TOTAL PB COSTS | 352,410.00 | 52.6% | 185,494.65 | 137,808.00 | 47,686.65 |
| XVIII. GEOTECHNICAL INVESTIGATIONS - HTS | | | | | |
| A. Field Work | \$22,425.00 | 91.7% | \$20,574.60 | \$20,574.60 | \$0.00 |
| B. Install Piezometer | \$2,416.00 | 90.0% | \$2,174.40 | \$2,174.40 | \$0.00 |
| C. Lab Testing | \$17,501.00 | | \$0.00 | \$0.00 | \$0.00 |
| D. Prepare Report | \$17,670.00 | | \$0.00 | \$0.00 | \$0.00 |
| Total | \$60,012.00 | 37.9% | \$22,749.00 | \$22,749.00 | \$0.00 |
| XIX. FIELD SURVEYING & ROW MAPPING - HZI | | | | | |
| A. Acquire ROE | \$3,000.00 | 100.0% | \$3,000.00 | \$3,000.00 | \$0.00 |
| B. Set Control & Topographic Surveys | \$90,000.00 | 99.8% | \$89,778.90 | \$89,778.90 | \$0.00 |
| C. Cross Section Rabb's Bayou & Gapp's Slough | \$6,380.00 | 87.6% | \$5,590.00 | \$5,590.00 | \$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 | 69.7% | \$44,756.7533 | \$44,756.75 | \$0.00 |
| F. BNSF RR Survey | \$17,880.00 | 88.4% | \$15,813.50 | \$15,813.50 | \$0.00 |
| G. Survey Thompson's Road | \$14,260.00 | 72.8% | \$10,385.00 | \$10,385.00 | \$0.00 |
| H. Detention Pond Survey | \$15,660.00 | 92.8% | \$14,536.2541 | \$14,536.25 | \$0.00 |
| Total | \$250,305.00 | 88.6% | \$221,697.00 | \$221,697.01 | \$0.00 |
| TOTAL PROJECT | \$2,165,059.00 | 49.5% | \$1,070,916.50 | \$895,121.86 | \$175,794.65 |

Peterson, Jillian

From: Don Durgin <Don.Durgin@klotz.com>
Sent: Friday, December 18, 2015 6:31 PM
To: Peterson, Jillian
Subject: X28 CRR Design Invoice 007 - 10646
Attachments: X28 CRR invoice 007 - 10646.pdf

Jillian,

Please process the attached invoice for payment. This invoice corresponds with PO 125695. Thanks.

Donald Durgin, P.E.
Department 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
www: rpsgroup.com | klotz.com

Donald Durgin, P.E.
Department 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
www: rpsgroup.com | klotz.com
