

# DANNENBAUM ENGINEERING CORPORATION

3100 WEST ALABAMA HOUSTON, TEXAS 77098 P.O. BOX 22292 HOUSTON, TEXAS 77227 (713) 520-9570

ENGINEERING  
EXCELLENCE  
SINCE  
1945

Richard Stolleis, P.E.  
Fort Bend County  
P.O. Box 1449  
Rosenberg, Texas 77471

Invoice Date: November 15, 2013  
Invoice Period: 10/01/13 Through 10/31/13  
Invoice Number: 459301/23/II

For Professional Services:

In connection with improvements to FM 1093 from State Highway 99 to west of FM 359 in Fort Bend County  
Work Authorization No. 1, including Amendment No. 1  
**P.O. Number 85425**  
Mobility Bond Project #748

DESCRIPTION OF WORK TASK	TOTAL CONTRACT AMOUNTS	PERCENT COMPLETE TO DATE	AMOUNTS EARNED TO DATE	PREVIOUSLY INVOICED AMOUNTS	CURRENT INVOICE AMOUNTS
<b>Pre-Award Costs</b>					
Dannenbaum Engineering Corporation	\$ 100,000.00	100.00%	\$ 100,000.00	\$ 100,000.00	\$ -
<b>Subtotal Pre-Award Costs</b>	<b>\$ 100,000.00</b>		<b>\$ 100,000.00</b>	<b>\$ 100,000.00</b>	<b>\$ -</b>
<b>PHASE I</b>					
<b>Advanced Planning</b>					
Environmental / NEPA (Jacobs)	\$ 189,506.00	78.22%	\$ 143,227.24	\$ 143,227.24	\$ -
Schematic Design (Klotz)	\$ 181,731.00	100.00%	\$ 181,731.00	\$ 181,731.00	\$ -
Drainage Impact Report (Klotz)	\$ 182,020.00	100.00%	\$ 182,020.00	\$ 182,020.00	\$ -
<b>Additional Services</b>					
Metro ROW Redesign - Schematic (Klotz)	\$ 124,250.00	67.92%	\$ 84,385.00	\$ -	\$ 84,385.00
Metro ROW Redesign - Drainage Analysis (Klotz)	\$ 50,750.00	78.55%	\$ 39,865.00	\$ -	\$ 39,865.00
Metro ROW Redesign - Schematic (DEC) (See attached for breakdown)	\$ 80,000.00	87.32%	\$ 69,858.31	\$ -	\$ 69,858.31
Metro ROW Redesign - Drainage Analysis (DEC) (See attached for breakdown)	\$ 45,000.00	81.03%	\$ 36,464.27	\$ -	\$ 36,464.27
<b>Management &amp; Engineering</b>					
Management (DEC) (See attached for breakdown)	\$ 682,806.93	86.72%	\$ 592,123.00	\$ 589,745.66	\$ 2,377.34
Segment D Design (Costello)	\$ 1,059,381.16	55.20%	\$ 584,796.51	\$ 584,796.51	\$ -
Segment C Design (BBI)	\$ 948,500.00	56.65%	\$ 537,360.69	\$ 537,360.69	\$ -
Segment B Design (Half)	\$ 370,757.00	68.09%	\$ 252,441.07	\$ 252,441.07	\$ -
TCP Design (Klotz)	\$ 284,040.00	70.00%	\$ 198,828.00	\$ 198,828.00	\$ -
Traffic Engineering (Teds - Signing & Signals)	\$ 208,176.00	47.77%	\$ 99,439.94	\$ 99,439.94	\$ -
<b>Construction Management, Inspection &amp; Material Testing</b>	\$ -	0.00%	\$ -	\$ -	\$ -
<b>Extras</b>					
Survey (Weisser)	\$ 262,180.00	95.47%	\$ 250,309.21	\$ 250,309.21	\$ -
ROW Parcel Mapping (Weisser)	\$ 90,000.00	100.00%	\$ 90,000.00	\$ 90,000.00	\$ -
Geotechnical (HTS)	\$ 100,000.00	91.33%	\$ 91,333.00	\$ 91,333.00	\$ -
Signal Warrant Studies (Teds)	\$ 2,820.00	100.00%	\$ 2,820.00	\$ 2,820.00	\$ -
Utility Coordination (DEC) (See attached for breakdown)	\$ 116,451.55	61.67%	\$ 71,818.90	\$ 71,818.90	\$ -
Utility Locating - SUE (LTRA)	\$ 63,565.82	100.00%	\$ 63,565.82	\$ 63,565.82	\$ -
Direct Expenses (DEC) (See attached for breakdown)	\$ 14,689.54	29.66%	\$ 4,356.62	\$ 4,298.99	\$ 57.63
<b>Subtotal PHASE I</b>	<b>\$ 5,056,625.00</b>		<b>\$ 3,581,743.58</b>	<b>\$ 3,348,736.03</b>	<b>\$ 233,007.55</b>
<b>PHASE II</b>					
<b>Advanced Planning</b>					
Environmental (Klotz)	\$ 297,135.00	90.00%	\$ 267,420.83	\$ 267,420.83	\$ -
Schematic Design (Klotz)	\$ 116,100.00	95.00%	\$ 110,295.00	\$ 110,295.00	\$ -
Drainage Impact Report (Klotz)	\$ 76,555.00	95.00%	\$ 72,727.25	\$ 72,727.25	\$ -
<b>Management &amp; Engineering</b>					
Management (DEC) (See attached for breakdown)	\$ 280,546.00	78.57%	\$ 220,417.69	\$ 214,209.20	\$ 6,208.49
Segment B - Section 1 Design (Half)	\$ 586,500.00	0.00%	\$ -	\$ -	\$ -
Segment B - Section 2 Design (DEC) (See attached for breakdown)	\$ 443,710.00	0.14%	\$ 604.50	\$ 604.50	\$ -
Segment A Design (CivilCorp)	\$ 536,527.00	0.00%	\$ -	\$ -	\$ -
TCP Design (DEC) (See attached for breakdown)	\$ 287,808.00	1.93%	\$ 5,541.25	\$ 5,541.25	\$ -
Traffic Engineering (Teds - Signing & Signals)	\$ 200,182.00	0.00%	\$ -	\$ -	\$ -
<b>Construction Management, Inspection &amp; Material Testing</b>	\$ -	0.00%	\$ -	\$ -	\$ -
<b>Extras</b>					
Survey (Weisser)	\$ 50,000.00	0.00%	\$ -	\$ -	\$ -
ROW Parcel Mapping (Weisser)	\$ 95,945.00	88.10%	\$ 84,527.55	\$ 84,527.55	\$ -
Geotechnical (HTS)	\$ 115,000.00	57.78%	\$ 66,451.00	\$ 66,451.00	\$ -
Utility Coordination (DEC) (See attached for breakdown)	\$ 92,722.00	1.09%	\$ 1,006.25	\$ 1,006.25	\$ -
Utility Locating - SUE (LTRA)	\$ 46,610.00	28.51%	\$ 13,287.03	\$ 13,287.03	\$ -
Direct Expenses (DEC) (See attached for breakdown)	\$ 25,000.00	3.48%	\$ 869.35	\$ 869.35	\$ -
<b>Subtotal PHASE II</b>	<b>\$ 3,250,340.00</b>		<b>\$ 843,147.70</b>	<b>\$ 836,939.21</b>	<b>\$ 6,208.49</b>
<b>TOTALS</b>	<b>\$ 8,406,965.00</b>	<b>53.82%</b>	<b>\$ 4,524,891.28</b>	<b>\$ 4,285,675.24</b>	<b>\$ 239,216.04</b>

**TOTAL AMOUNT DUE THIS INVOICE: \$239,216.04**

*dc/woj*  
12/30/13

DESCRIPTION OF WORK TASK	HOURS/UNITS	RATE	AMOUNT
<b>Details for Dannenbaum Engineering Corporation</b>			
<b>Management &amp; Engineering Phase I</b>			
Management (DEC)			
David Milner, Project Manager	2.00	\$ 313.10	\$ 626.20
Johan Petterson, Project Engineer	10.00	104.06	1,040.60
Tyson Arnold, Project Engineer	8.00	82.50	660.00
Tuan Nguyen, Clerical	1.25	40.43	50.54
Subtotal	21.25		\$ 2,377.34
<b>Additional Services - Metro ROW Redesign</b>			
Schematic (DEC)			
David Milner, Project Manager	94.00	\$ 313.10	\$ 29,431.40
David Overstreet, Project Engineer	8.00	146.24	1,169.92
Michael Kaspar, Project Engineer	49.50	152.37	7,542.32
Michael Kaspar, Project Engineer	49.50	143.75	7,115.63
Uttam Karmaker, Project Engineer	192.00	128.12	24,599.04
Subtotal	393.00		\$ 69,858.31
<b>Additional Services - Metro ROW Redesign</b>			
Drainage Analysis (DEC)			
Al Flores, Project Manager	4.50	\$ 243.74	\$ 1,096.83
David Overstreet, Project Engineer	126.00	146.24	18,426.24
Michael Kaspar, Project Engineer	5.00	152.37	761.85
Michael Kaspar, Project Engineer	64.00	143.75	9,200.00
Uttam Karmaker, Project Engineer	37.50	128.12	4,804.50
Louis Cottrell, Project Engineer	5.25	126.40	663.60
Urbano Herrera, Senior Engineering Technician	15.00	100.75	1,511.25
Subtotal	257.25		\$ 36,464.27
<b>Direct Expenses - Phase I</b>			
D. Milner - Mileage	72.00	\$ 0.565	\$ 40.68
M. Kaspar - Mileage	30.00	0.565	16.95
Subtotal			\$ 57.63
<b>Management &amp; Engineering Phase II</b>			
Management (DEC)			
David Milner, Project Manager	13.00	\$ 313.10	\$ 4,070.30
Michael Kaspar, Project Engineer	12.00	152.37	1,828.44
Heather Arcolas, Clerical	3.50	88.50	309.75
Subtotal	28.50		\$ 6,208.49
<b>TOTAL</b>			<b>\$ 114,966.04</b>

**Progress Report No. 23**  
**From October 01, 2013 to October 31, 2013**  
**Report Date: November 15, 2013**

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**Mobility Bond Project #748, Precinct 3**

**Description:** FM 1093 Westpark Tollroad Extension Phase I  
SH 99 to FM 359

**Fort Bend County Engineer:** Richard Stolleis, P.E.

**Project Director:** David Milner, P.E.  
Dannenbaum Engineering Corporation (DEC) - Houston

**Narrative:**

Our efforts in October were focused on advancement of the Draft Environmental Assessment (EA). We anticipate a finding of Satisfactory for Further Processing by the end of November.

From June to October we coordinated with Fort Bend County to revise the roadway schematic and hydraulic impact analysis design based on acquisition of METRO's 100' Right of Way (ROW) through the project limits. Efforts included revising horizontal and vertical geometry, typical sections, cross sections, drainage areas, ditch geometry, storm sewer trunklines, and all other design elements in preparation for re-submittal to TxDOT following approval of the EA.

As requested, we also assisted Fort Bend County with field documentation of the 100' METRO Right of Way from the eastern Fort Bend County line to Eagle Lake in Colorado County. The deliverable was a series of digital photographs of physical features within the right of way. As we understand, this information with its geo-reference will be incorporated into GIS based mapping of the FM1093 Corridor.

A more detailed list of October activities is shown below.

**Activities This Month:**

**Environmental Process**

- Re-submitted Draft EA back to FHWA on October 3.
- Coordinated with TxDOT to monitor approval status.

**Survey**

- Assessed 100' METRO ROW by documenting structures and other elements along the area to be acquired by Fort Bend County.
- Took Pictures of significant items within the ROW.
- Geo-referenced pictures of items to Google Earth.

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**Schematic**

- Created conceptual design to utilize 100' METRO ROW.
- Coordinated with Fort Bend County to review design alternatives.
- Revised the designs to address potential impacts to adjacent properties and finalized a selected alternative.
- Revised Horizontal and Vertical Geometry based on selected alternative.
- Revised Typical Sections.
- Revised Cross Sections.
- Determined limits of Proposed ROW based on revised roadway.
- Revised previously approved schematic based on selected alternative.

**Hydraulic Impact Report**

- Developed hydraulic models for METRO ROW option.
- Coordinated with Fort Bend County to review drainage concepts.
- Reviewed and revised drainage areas.
- Revised Existing drainage SWMM model based on revised ROW impacts.
- Revised Proposed drainage SWMM model based on selected drainage concept.
- Revised ditch and storm sewer trunkline profiles.
- Revised previously approved Hydraulic Impact Report based on selected drainage concept.

**Utilities**

- None.

**Segment Design (PS&E)**

- None.

**Approvals and Deliverables this Month:**

- None.

**Activities Next Month:**

**Environmental Process**

- Obtain Satisfactory for Further Processing.
- Issue notices affording an opportunity for public hearing.

**Survey**

- None.

**Schematic**

- Respond to comments from the County
- Develop alternatives as needed to address review comments.

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**Hydraulic Impact Report**

- Respond to comments from the County
- Develop alternatives as needed to address review comments.

**Utilities**

- None.

**Segment Design (PS&E)**

- None.

**Approvals and Deliverables next Month:**

- Obtain Satisfactory for Further Processing from FHWA.

**Schedule:**

Program Schedule is monitoring environmental assessment. These efforts are now behind schedule when compared against the baseline timetables, previously discussed with the County.

**Projection Report:**

Segment Design is now on hold as we await resolution of FHWA comments on the EA, TxDOT comments on 60% submittals, and METRO right of way acquisition MOU.

**Issues and Concerns:**

- Coordination with METRO to identify property to be acquired.
- Finalizing Toll Collection points and Ramp locations with FBCTRA.
- Development of the Program cost-sharing plan between FBC and FBCTRA.
- Coordination with TxDOT to receive and address review comments.

**Assessment:**

Our efforts are focused on obtaining environmental clearance in order to proceed with design of the project.



David R. Milner, P.E.





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