

## DANNENBAUM ENGINEERING CORPORATION

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Stacy Slawinski, P.E.  
 Fort Bend County  
 301 Jackson Street  
 Richmond, Texas 77469-3108

Invoice Date: May 12, 2020  
 Invoice Period: 4/1/2020 Through 4/30/2020  
 Invoice Number: 479701/14/II

For Professional Services:

In connection with PS&E for FM 521 Expansion Project from FM 2234 to SH 6  
**P.O. Number 174087**

DESCRIPTION OF WORK TASK	TOTAL CONTRACT AMOUNTS	PERCENT COMPLETE TO DATE	AMOUNTS EARNED TO DATE	PREVIOUSLY INVOICED AMOUNTS	CURRENT INVOICE AMOUNTS
<b>Final PS&amp;E Engineering</b>					
Roadway Design (Dannenbaum)	\$ 597,188.93	68.82%	\$ 410,964.22	\$ 388,126.44	\$ 22,837.78
Drainage Design (Dannenbaum)	\$ 496,261.25	66.00%	\$ 327,532.40	\$ 307,681.95	\$ 19,850.45
Traffic - Signing & Pavement Marking (Infratech)	\$ 125,958.58	60.80%	\$ 76,587.90	\$ 75,692.38	\$ 895.52
Traffic - Signals (Infratech)	\$ 256,812.30	68.62%	\$ 176,229.69	\$ 147,474.44	\$ 28,755.25
Traffic - Illumination (Infratech)	\$ 91,926.66	20.57%	\$ 18,909.26	\$ 18,483.36	\$ 425.90
Misc. Roadway & TCP (Dannenbaum)	\$ 518,672.45	73.18%	\$ 379,578.96	\$ 355,456.78	\$ 24,122.18
Structural Design - Broadway Bridge (LJA)	\$ 282,225.00	77.54%	\$ 218,846.21	\$ 217,564.14	\$ 1,282.07
Structural Design - Misc. Structures (Dannenbaum)	\$ 119,876.74	63.00%	\$ 75,522.35	\$ 71,926.05	\$ 3,596.30
Management (Dannenbaum)	\$ 226,646.78	65.97%	\$ 149,520.99	\$ 142,721.59	\$ 6,799.40
Management (LJA)	\$ 83,960.00	31.12%	\$ 26,130.05	\$ 25,573.75	\$ 556.30
Management (Infratech)	\$ 33,415.36	73.31%	\$ 24,496.71	\$ 24,496.71	\$ -
<b>Extras</b>					
Survey (LJA)	\$ 230,114.99	66.72%	\$ 153,533.00	\$ 149,292.90	\$ 4,240.10
ROW Parcel Mapping (LJA)	\$ 313,925.00	54.27%	\$ 170,360.98	\$ 154,936.23	\$ 15,424.75
Geotechnical (Associated Testing Laboratories)	\$ 284,997.00	94.34%	\$ 268,863.00	\$ 268,863.00	\$ -
Drainage Impact Study (LJA)	\$ 457,220.00	52.22%	\$ 238,749.89	\$ 230,635.00	\$ 8,114.89
Utility Coordination (Dannenbaum)	\$ 225,379.39	30.00%	\$ 67,613.82	\$ 33,806.91	\$ 33,806.91
SUE (LJA)	\$ 214,405.00	73.88%	\$ 158,405.00	\$ 158,405.00	\$ -
Project Initiation & Planning (Dannenbaum)	\$ 30,000.00	100.00%	\$ 30,000.00	\$ 30,000.00	\$ -
Items as Authorized by County	\$ 40,000.00	25.00%	\$ 10,000.00	\$ 10,000.00	\$ -
Direct Expenses (Dannenbaum)	\$ 26,725.00	3.55%	\$ 947.94	\$ 939.45	\$ 8.49
Direct Expenses (LJA)	\$ 24,750.00	2.60%	\$ 642.30	\$ 642.30	\$ -
Direct Expenses (Infratech)	\$ 612.00	72.71%	\$ 445.00	\$ 445.00	\$ -
<b>Bid/Construction Phase Services</b>					
Post Design Services (Dannenbaum)	\$ 80,340.29	0.00%	\$ -	\$ -	\$ -
Post Design Services (LJA)	\$ 72,540.00	0.00%	\$ -	\$ -	\$ -
Post Design Services (Infratech)	\$ 34,935.12	0.00%	\$ -	\$ -	\$ -
<b>Total Management &amp; Engineering Fees</b>	<b>\$ 4,868,887.84</b>	<b>61.28%</b>	<b>\$ 2,983,879.67</b>	<b>\$ 2,813,163.38</b>	<b>\$ 170,716.29</b>

<b>TOTAL AMOUNT DUE THIS INVOICE:</b>	<b>\$170,716.29</b>
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**Progress Report No. 14**  
**From April 01, 2020 to April 30, 2020**  
**Report Date: April 10, 2020**

**Project: FM 521 Expansion Project, Precinct 1**  
**FM 2234 to SH 6**

**Activities this Billing Period:**

**Project Management (Dannenbaum)**

- Held weekly progress conference calls with Project Design Team.
- Coordinated and managed surveying, geotechnical, drainage, and PS&E design efforts.
- Coordinated with Fort Bend County Engineering and TxDOT Project Manager.
- Coordinated with PAS regarding right of way acquisition. Provided Parcel contact information on 04/20.

**PS&E Design (Dannenbaum)**

- Updated design for 60% PS&E. Prepared updated 60% plan set based on latest drainage design from drainage study. 60% PS&E is ready to submit to TxDOT.
- Continued Typical Sections, Roadway Plans, Intersection Layouts, and Intersection grading.
- Continued Roadway Design. Focused on ditch design, driveways, and intersections.
- Continued Traffic Control Plans, Construction Staging, Detour Plans, and TCP Narrative.
- Continued Corridor Model and design Cross Sections, including Broadway and Access Roads.
- Continued Retaining Wall Plan & Profile Sheets for Broadway Overpass, Clear Creek, and Mustang Bayou.
- Continued Drainage Design, including coordination with LJA to ensure compliance with Drainage Study, Drainage Area Maps, Drainage Plan & Profile Sheets, Laterals, and Hydraulic Computations.
- Updated Bridge design for drainage crossings based on latest Hydraulic Data.
- Received TxDOT comments on Bridge Layouts submitted to Austin in March.
- Continued development of quantities and cost estimate.
- Continued development of UPRR Exhibit A for submittal to TxDOT. Addressed initial comments from TxDOT as well as comments received from 02/27 site meeting with UPRR.
- Continued Utility Plan & Profile sheets, Utility Contacts, Utility Conflict Analysis, and SUE QL A Test Hole Plan. Prepared for initial Utility Coordination Meeting with TxDOT.

**Survey (LJA)**

- Submitted Initial ROW Mapping submittal to TxDOT in March. Currently awaiting TxDOT comments prior to final submittal.

### **Geotechnical (Associated Testing Laboratories)**

- Resubmitted Geotechnical Report to TxDOT in March.
- Received TxDOT approval on 04/28.

### **Drainage Study (LJA)**

- Coordinated with Dannenbaum during PS&E design.
- Continued to address comments received from TxDOT in February.
- Submitted updated drainage study to TxDOT on 04/17.
- Received comments from TxDOT on Bridge Scour Report on 04/23. Provided comment responses and addressed comments.

### **Traffic Design (infraTECH)**

- Continued development of Signing & Pavement Marking plans.
- Continued development of Traffic Signals Layouts.
- Continued Illumination and CTMS plans.

### **Activities Next Month:**

#### **Project Management (Dannenbaum)**

- Attend Meetings with TxDOT and Fort Bend County.
- Continue weekly conference calls with Project Design Team.
- Continue coordination with sub consultants.

#### **PS&E Design (Dannenbaum)**

- Continue design development following 60% submittal to TxDOT and Fort Bend County.
- Continue development of UPRR Exhibit A. Address comments from TxDOT and resubmit.
- Continue Traffic Control Plan and Construction Staging.
- Continue roadway design, including intersections, side streets, driveways, existing UPRR crossings, 3D Corridor Model and design Cross Sections.
- Continue drainage design, focusing on ditch design.
- Continue developing quantities, cost estimate, standards and specifications.
- Continue utility conflict analysis. Arrange Utility Coordination Meeting with TxDOT.

#### **Survey (LJA)**

- Complete QL A SUE field work.

- Address TxDOT comments on Abstract Maps and Initial Mapping submittal. Submit Final ROW Map Submittal to TxDOT.

**Geotechnical (Associated Testing Laboratories)**

- Address any questions from the design team.

**Drainage Study (LJA)**

- Address any final TxDOT comments and obtain TxDOT approval.

**Traffic Design (infraTECH)**

- Continue development of Signing & Pavement Marking plans.
- Continued development of Traffic Signals Layouts.
- Continue Illumination and CTMS plans.

**Approvals and Planned Deliverables next Month:**

- Submit 60% PS&E to TxDOT.
- Submit Final ROW Map Submittal to TxDOT.
- Resubmit UPRR Exhibit A to TxDOT.
- Schedule Utility Coordination meeting with TxDOT.



Michael J. Kaspar, P.E.  
Dannenbaum Engineering Corporation