

DANNENBAUM ENGINEERING CORPORATION

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

Invoice Date: April 23, 2020
Invoice Period: 3/1/2020 Through 3/31/20
Invoice Number: 479701/13/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
Final PS&E Engineering					
Roadway Design (Dannenbaum)	\$ 597,188.93	64.99%	\$ 388,126.44	\$ 358,966.84	\$ 29,159.60
Drainage Design (Dannenbaum)	\$ 496,261.25	62.00%	\$ 307,681.95	\$ 272,943.66	\$ 34,738.29
Traffic - Signing & Pavement Marking (Infratech)	\$ 125,958.58	60.09%	\$ 75,692.38	\$ 75,692.38	\$ -
Traffic - Signals (Infratech)	\$ 256,812.30	57.42%	\$ 147,474.44	\$ 147,474.44	\$ -
Traffic - Illumination (Infratech)	\$ 91,926.66	20.11%	\$ 18,483.36	\$ 18,483.36	\$ -
Misc. Roadway & TCP (Dannenbaum)	\$ 518,672.45	68.53%	\$ 355,456.78	\$ 316,227.29	\$ 39,229.49
Structural Design - Broadway Bridge (LJA)	\$ 282,225.00	77.09%	\$ 217,564.14	\$ 217,564.14	\$ -
Structural Design - Misc. Structures (Dannenbaum)	\$ 119,876.74	60.00%	\$ 71,926.05	\$ 62,335.91	\$ 9,590.14
Management (Dannenbaum)	\$ 226,646.78	62.97%	\$ 142,721.59	\$ 124,589.85	\$ 18,131.74
Management (LJA)	\$ 83,960.00	30.46%	\$ 25,573.75	\$ 25,573.75	\$ -
Management (Infratech)	\$ 33,415.36	73.31%	\$ 24,496.71	\$ 24,496.71	\$ -
Extras					
Survey (LJA)	\$ 230,114.99	64.88%	\$ 149,292.90	\$ 149,292.90	\$ -
ROW Parcel Mapping (LJA)	\$ 313,925.00	49.35%	\$ 154,936.23	\$ 152,952.50	\$ 1,983.73
Geotechnical (Associated Testing Laboratories)	\$ 284,997.00	94.34%	\$ 268,863.00	\$ 268,863.00	\$ -
Drainage Impact Study (LJA)	\$ 457,220.00	50.44%	\$ 230,635.00	\$ 220,592.30	\$ 10,042.70
Utility Coordination (Dannenbaum)	\$ 225,379.39	15.00%	\$ 33,806.91	\$ 22,537.94	\$ 11,268.97
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	3.52%	\$ 939.45	\$ 910.12	\$ 29.33
Direct Expenses (LJA)	\$ 24,750.00	2.60%	\$ 642.30	\$ 642.30	\$ -
Direct Expenses (Infratech)	\$ 612.00	72.71%	\$ 445.00	\$ 445.00	\$ -
Bid/Construction Phase Services					
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%	\$ -	\$ -	\$ -
Total Management & Engineering Fees	\$ 4,868,887.84	57.78%	\$ 2,813,163.38	\$ 2,658,989.39	\$ 154,173.99

TOTAL AMOUNT DUE THIS INVOICE: \$154,173.99

479701/MJK/II

Progress Report No. 13
From March 01, 2020 to March 31, 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 updated Parcel information on 03/26.

PS&E Design (Dannenbaum)

- Continued to advance design to 60% PS&E. 60% PS&E is ready to submit to TxDOT.
- Continued Project Layouts, Typical Sections, Roadway Plans, and Intersection Layouts.
- 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, FBC Ditch A, American Canal, and Mustang Bayou.
- Continued Drainage Design, including coordination with LJA to ensure compliance with Drainage Study, Drainage Area Maps, and Drainage Plan & Profile Sheets.
- Continued Bridge design for drainage crossings.
- Submitted updated Bridge Layout packages to TxDOT and received Houston District approval on 03/20.
- Continued development of quantities and cost estimate.
- Continued list of standards.
- 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, and Utility Conflict Analysis. Prepared for initial Utility Coordination Meeting with TxDOT.

Survey (LJA)

- Performed additional field survey to capture new developments, top of bank elevations along Mustang Bayou and Clear Creek, and recently completed Trammel Fresno intersection. Updated topo file and dtm.

- Submitted Initial ROW Mapping submittal to TxDOT on 03/27. This is the final step before obtaining TxDOT approval.

Geotechnical (Associated Testing Laboratories)

- Resubmitted Geotechnical Report to TxDOT on 03/12.
- Coordinated with design team regarding slope stability of drainage crossing and ditches; retaining wall design details, including maximum wall height, foundation improvement, and storm sewer trunk line location; and pond design, including clay liner and side slopes.

Drainage Study (LJA)

- Coordinated with Dannenbaum during PS&E design.
- Continued to address comments received from TxDOT in February. Updated drainage study with anticipated April resubmittal.
- Reviewed FM 521 bridges (Clear Creek, FBC Ditch A, & Mustang Bayou) to verify no impact in proposed design.

Traffic Design (infraTECH)

- Continued development of Signing & Pavement Marking plans.
- Continued development of Traffic Signals Layouts.
- Continued Illumination and CTMS plans. Submitted draft plans to TxDOT on 03/23 to review CTMS design, and received notification to proceed with design.

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 toward 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)

- Develop initial plans for QL A SUE work.
- Address TxDOT comments on Abstract Maps and Initial Mapping submittal. Submit Final ROW Map Submittal to TxDOT.

Geotechnical (Associated Testing Laboratories)

- Address any additional comments received from TxDOT and obtain TxDOT approval.

Drainage Study (LJA)

- Submit final drainage report 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.
- Submit Final Drainage Study to TxDOT.
- Schedule Utility Coordination meeting with TxDOT.



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