

DANNENBAUM ENGINEERING CORPORATION

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

Invoice Date: October 15, 2019
Invoice Period: 09/01/19 Through 09/30/19
Invoice Number: 479701/07/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)	\$ 597,189.08	21.93%	\$ 130,938.91	\$ 95,457.50	\$ 35,481.41
Drainage Design (Dannenbaum)	\$ 496,261.25	17.00%	\$ 84,364.40	\$ 49,626.11	\$ 34,738.29
Traffic - Signing & Pavement Marking (Infratech)	\$ 125,958.58	30.76%	\$ 38,739.78	\$ 37,687.42	\$ 1,052.36
Traffic - Signals (Infratech)	\$ 252,812.30	27.29%	\$ 68,996.32	\$ 66,811.30	\$ 2,185.02
Traffic - Illumination (Infratech)	\$ 130,009.66	0.00%	\$ -	\$ -	\$ -
Misc. Roadway & TCP (Dannenbaum)	\$ 518,672.45	23.19%	\$ 120,276.10	\$ 88,446.33	\$ 31,829.77
Structural Design - Broadway Bridge (LJA)	\$ 282,225.00	20.07%	\$ 56,642.95	\$ 35,105.45	\$ 21,537.50
Structural Design - Misc. Structures (Dannenbaum)	\$ 119,876.74	17.00%	\$ 20,379.05	\$ -	\$ 20,379.05
Management (Dannenbaum)	\$ 226,646.78	24.97%	\$ 56,595.82	\$ 45,263.48	\$ 11,332.34
Management (LJA)	\$ 83,960.00	18.84%	\$ 15,817.50	\$ 13,551.00	\$ 2,266.50
Management (Infratech)	\$ 33,415.36	30.65%	\$ 10,241.48	\$ 8,884.34	\$ 1,357.14
Extras					
Survey (LJA)	\$ 224,235.00	52.40%	\$ 117,492.15	\$ 117,415.90	\$ 76.25
ROW Parcel Mapping (LJA)	\$ 310,955.00	41.34%	\$ 128,563.75	\$ 113,139.00	\$ 15,424.75
Geotechnical (Associated Testing Laboratories)	\$ 264,264.00	72.02%	\$ 190,316.75	\$ 190,316.75	\$ -
Drainage Impact Study (LJA)	\$ 457,220.00	33.64%	\$ 153,809.10	\$ 135,220.00	\$ 18,589.10
Utility Coordination (Dannenbaum)	\$ 225,379.39	2.00%	\$ 4,507.59	\$ -	\$ 4,507.59
SUE (LJA)	\$ 214,405.00	48.64%	\$ 104,290.00	\$ 89,655.00	\$ 14,635.00
Project Initiation & Planning (Dannenbaum)	\$ 30,000.00	100.00%	\$ 30,000.00	\$ 30,000.00	\$ -
Items as Authorized by County	\$ 40,000.00	0.00%	\$ -	\$ -	\$ -
Direct Expenses (Dannenbaum)	\$ 26,725.00	0.00%	\$ -	\$ -	\$ -
Direct Expenses (LJA)	\$ 20,250.00	3.17%	\$ 642.30	\$ 378.30	\$ 264.00
Direct Expenses (Infratech)	\$ 612.00	16.34%	\$ 100.00	\$ 100.00	\$ -
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	\$ 4,868,888.00	27.37%	\$ 1,332,713.95	\$ 1,117,057.88	\$ 215,656.07

TOTAL AMOUNT DUE THIS INVOICE: \$215,656.07

Progress Report No. 07
From September 01, 2019 to September 30, 2019
Report Date: October 11, 2019

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.

PS&E Design (Dannenbaum)

- Continued plan set production toward 30% submittal to TxDOT.
- Continued Project Layouts, Typical Sections, Roadway Plans, and Intersection Layouts.
- Continued Roadway Design. Continued review of proposed profile.
- Continued conceptual Traffic Control Plan and Construction Staging.
- Continued Corridor Model and design Cross Sections. Reviewed storm sewer trunk lines to verify cover. Reviewed and revised ditch flow lines from Drainage Study.
- Continued Retaining Wall Plan & Profile Sheets for Broadway Overpass. Began Wall sheets at Drainage crossings.
- Continued Drainage Area Maps and Drainage Plan & Profile Sheets.
- Continued Bridge Layouts for drainage crossings.
- Performed QA/QC of 30% plans prior to submittal to TxDOT.
- Submitted 30% plans and cross sections to TxDOT on 10/08.

Survey (LJA)

- Completed surveying field activities.
- Continued ROW mapping development. Submitted preliminary ROW Maps and Abstract Maps to TxDOT on 09/27.
- Continued Level B SUE to identify utility locations. Completed field work on 10/04. Continued updating design files.
- Coordinated with utility companies to obtain available information and verify lines are marked.
- Processed field survey results and updated topo DGN files.

Geotechnical (Associated Testing Laboratories)

- Analysis & Report Preparation: Prepared field data, laboratory tests, and finalized boring logs.

- Continued development of Draft Geotechnical Report.
- Provided pavement coring information along existing FM 521 to design team.
- Coordinated with Dannenbaum to determine additional boring locations at Clear Creek and Mustang Bayou. Additional borings needed due to change from bridge class culverts to bridges.
- Coordinated with Dannenbaum to obtain right of entry for pond borings near Compton Street.

Drainage Study (LJA)

- Continued development of existing and proposed SWMM and Geopak Drainage Models.
- Coordinated with Dannenbaum to verify major conveyance system and profiles.
- Completed HEC-RAS models for Clear Creek and Mustang Bayou.
- Completed Hydraulic Data Sheets for Bridge Class Culvert crossings at Clear Creek and Mustang Bayou.
- Completed compiling Drainage Study report.
- Had follow-up meeting with TxDOT on 09/26 to review proposed conveyance network, detention, profiles, and preliminary drainage findings. Worked to address TxDOT's final comments and finalize report. Plan to meet with TxDOT to submit Drainage Study on 10/14.

Traffic Design (infraTECH)

- Signing & Pavement Marking: Addressed comments from Dannenbaum. Submitted updated 30% plans to Dannenbaum.
- Traffic Signals: Addressed TxDOT comments on sheets to be included in Exhibit A.

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)

- Submit 30% plans to TxDOT on 10/08. Submit plans to Fort Bend County for review.
- Continue design development toward 60% submittal to TxDOT in December.
- Continue Traffic Control Plan and Construction Staging.
- Continue review of intersections, side streets, driveways, and existing UPRR crossings.
- Continue preparation of plans for UPRR Exhibit A.
- Continue creation of 3D Corridor Model and design Cross Sections.
- Continue drainage design. Review LJA's drainage study.

- Begin developing quantities and updated cost estimate.

Survey (LJA)

- Complete update to survey CAD file with final QL B information.
- Develop initial plans for QL A SUE work.
- Address TxDOT comments on Abstract Maps and Preliminary Mapping submittal
- Continue Property Descriptions and Parcel Plats for submittal to TxDOT for review and County to begin ROW Acquisition by end of October.

Geotechnical (Associated Testing Laboratories)

- Complete additional borings at Clear Creek and Mustang Bayou.
- Complete pond borings near Broadway and Compton Street.
- Complete draft report for review by design team and for submittal to TxDOT by the end of October.

Drainage Study (LJA)

- Meet with TxDOT on 10/14 to submit drainage study.
- Address review comments on drainage study.

Traffic Design (infraTECH)

- Signing & Pavement Marking: Advance design toward 60% submittal.
- Traffic Signals: Prepare signal condition diagram and proposed signal layouts. Begin work on temporary signal layouts.

Approvals and Planned Deliverables next Month:

- Submit 30% PS&E to TxDOT on 10/08.
- Submit Initial UPRR Exhibit A to TxDOT by the end of October.
- Submit Geotechnical Study to TxDOT by the end of October.
- Submit Drainage Study to TxDOT on 10/14.



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