

PO#174087
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DANNENBAUM ENGINEERING CORPORATION

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Richard Stolleis, P.E.
Fort Bend County
301 Jackson Street
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Invoice Date: July 15, 2019
Invoice Period: 06/01/19 Through 06/30/19
Invoice Number: 479701/04/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	11.05%	\$ 65,971.16	\$ 56,849.95	\$ 9,121.21
Drainage Design (Dannenbaum)	\$ 496,261.25	2.00%	\$ 9,925.22	\$ -	\$ 9,925.22
Traffic - Signing & Pavement Marking (Infratech)	\$ 125,958.58	19.50%	\$ 24,561.92	\$ 2,519.17	\$ 22,042.75
Traffic - Signals (Infratech)	\$ 252,812.30	14.12%	\$ 35,689.64	\$ 25,435.39	\$ 10,254.25
Traffic - Illumination (Infratech)	\$ 130,009.66	0.00%	\$ -	\$ -	\$ -
Misc. Roadway & TCP (Dannenbaum)	\$ 518,672.45	7.99%	\$ 41,457.94	\$ 21,891.26	\$ 19,566.68
Structural Design - Broadway Bridge (LJA)	\$ 282,225.00	3.45%	\$ 9,731.76	\$ 7,368.58	\$ 2,363.18
Structural Design - Misc. Structures (Dannenbaum)	\$ 119,876.74	0.00%	\$ -	\$ -	\$ -
Management (Dannenbaum)	\$ 226,646.78	11.97%	\$ 27,131.74	\$ 22,598.80	\$ 4,532.94
Management (LJA)	\$ 83,960.00	13.43%	\$ 11,273.45	\$ 9,434.21	\$ 1,839.24
Management (Infratech)	\$ 33,415.36	12.75%	\$ 4,259.20	\$ 3,097.60	\$ 1,161.60
Extras					
Survey (LJA)	\$ 224,235.00	47.64%	\$ 106,815.65	\$ 85,615.15	\$ 21,200.50
ROW Parcel Mapping (LJA)	\$ 310,955.00	24.80%	\$ 77,123.75	\$ 77,123.75	\$ -
Geotechnical (Associated Testing Laboratories)	\$ 264,264.00	59.70%	\$ 157,759.75	\$ 157,759.75	\$ -
Drainage Impact Study (LJA)	\$ 457,220.00	14.16%	\$ 64,748.70	\$ 35,281.00	\$ 29,467.70
Utility Coordination (Dannenbaum)	\$ 225,379.39	0.00%	\$ -	\$ -	\$ -
SUE (LJA)	\$ 214,405.00	0.00%	\$ -	\$ -	\$ -
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	0.11%	\$ 22.04	\$ 22.04	\$ -
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	13.69%	\$ 666,571.92	\$ 534,996.65	\$ 131,575.27

TOTAL AMOUNT DUE THIS INVOICE: \$131,575.27

479701/MJK/II

OK. AIA.
7/19/19

Progress Report No. 04
From June 01, 2019 to June 30, 2019
Report Date: July 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.
- Updated Design Summary Report based on comments from TxDOT.
- Held Design Concept Conference (DCC) at TxDOT on July 10. Prepared documents and let meeting at TxDOT.

PS&E Design (Dannenbaum)

- Continued plan set production.
- Continued Roadway Plan & Profile Sheets and Intersection Layouts.
- Continued Roadway Design. Continued review of proposed profile.
- Continued conceptual Traffic Control Plan and Construction Staging.
- Began creation of 3D Corridor Model and design Cross Sections. Incorporated storm sewer trunk lines to verify cover.
- Reviewed options for Broadway Overpass over FM 521. Provided alternatives to TxDOT for further direction.
- Reviewed bridge class culvert extensions as requested by TxDOT. Reviewed costs associated with replacing culverts or building bridges in lieu of culvert extensions.

Survey (LJA)

- Continued surveying field activities and ROW mapping development.
- Received approval from UPRR to survey within UPRR ROW. Scheduled RailPros for July 22 to survey railroad tracks at intersections.
- Scheduled Level B SUE team and began utility fieldwork on July 10.
- Coordinated with utility companies to obtain available information and verify lines are marked.
- Processed field survey results and updated topo DGN files.
- Coordinated with TxDOT after it was learned that TxDOT had surveyor Transystems surveying controls, planimetrics, and existing ROW for the project corridor.

Geotechnical (Associated Testing Laboratories)

- Specialized testing – Consolidation is in progress and Multi-Specimen Cu tests require detention pond borings.
- Analysis & Report Preparation: Preparing field data, laboratory tests, and finalized boring logs.
- Continued development of Draft Geotechnical Report.

Drainage Study (LJA)

- Continued development of existing and proposed SWMM Models.
- Designed Major conveyance ditch and trunk line sizes.
- Coordinated with Dannenbaum to verify major conveyance and profile.
- Systems A and L are complete. System D is pending information from Lake Olympia Parkway. System N is ongoing.
- Continued compiling Drainage Study report.

Traffic Design (infraTECH)

- Signing & Pavement Marking – Continued preparation of plans and details.
- Traffic Signals: Submitted Signal Warrant Analysis to TxDOT. TxDOT responded with no comments.

Activities Next Month:

Project Management (Dannenbaum)

- Schedule Drainage Coordination Meeting with TxDOT.
- Attend Meetings with Fort Bend County and affected property owners.
- Continue weekly conference calls with Project Design Team.
- Continue coordination with sub consultants.

PS&E Design (Dannenbaum)

- Continue plan set production.
- Continue conceptual Traffic Control Plan and Construction Staging.
- Continue review of intersections, side streets, driveways, and existing UPRR crossings.
- Begin preparation of UPRR exhibits for inclusion in UPRR agreement.
- Continue creation of 3D Corridor Model and design Cross Sections. Incorporated storm sewer trunk lines and UPRR ditch profile.
- Complete bridge class culvert analysis and submit to TxDOT for further direction.

Survey (LJA)

- Complete topography survey.
- Complete update to survey CAD file.
- Continue utility survey, including Level B SUE.
- Complete survey of UPRR tracks.
- Continue preparation of Right of Way Maps.

Geotechnical (Associated Testing Laboratories)

- Complete draft report for review by design team and for submittal to TxDOT in August.
- Complete final borings at detention ponds upon ROE clearance and authorization.

Drainage Study (LJA)

- Complete design of major conveyance ditch and trunk line sizes.
- Coordinate with Roadway Design to verify major conveyance and profile.
- Schedule meeting with TxDOT to discuss project parameters, including WSE in comparison to roadway PGL.
- Develop existing and proposed HEC-RAS at bridge and bridge class culvert crossings.
- Continue draft Drainage Study report in preparation for submittal to TxDOT in August.

Traffic Design (infraTECH)

- Signing & Pavement Marking: Continue design and sheet production.
- Traffic Signals: Prepare signal condition diagram.

Approvals and Planned Deliverables next Month:

- Schedule drainage meeting with TxDOT.



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