

PO # 166114  
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**TERRA**  
ASSOCIATES, INC.  
CONSULTING ENGINEERS

1445 North Loop West, Suite 450  
Houston, TX 77008  
713-993-0333

FORT BEND COUNTY ENGINEERING DEPARTMENT  
Richard Stolleis, County Engineer  
301 Jackson Street  
Richmond, TX 77469

Invoice number 29372  
Date 09/20/2018

Project 0522-1801 Brandt Road - PO #166114 - Invoice  
Sequence # 4

Billing Period through: August 31, 2018

**Current Charges:**

Professional Engineering Services	\$ 114,154.24
Professional Surveying / Consulting Services	\$ 0.00
Reimbursable	\$ 2,200.00

**TOTAL AMOUNT THIS INVOICE:**

\$ 116,354.24

OK, JSS  
9/21/18

**OUTSTANDING INVOICES**

\$ 0.00

**BALANCE DUE:**

\$ 116,354.24

**Aging Summary**

Invoice Number	Invoice Date	Outstanding	Current	Over 30	Over 60	Over 90	Over 120
29372	09/20/2018	116,354.24	116,354.24				
	Total	116,354.24	116,354.24	0.00	0.00	0.00	0.00

To insure proper credit, please include Project Number and Invoice Number on your remittance.  
Payment due upon Receipt of Invoice.

Invoice number 29372

Date 09/20/2018

Project: 0522-1801 Brandt Road - PO #166114 - Invoice  
Sequence #

## Invoice Detail by Task

Description	Contract Amount	% Billed To Date	Total Billed	Remaining Balance	Current Billed
A01 Preliminary Design Services	520,420.00	55.50	288,810.46	231,609.54	114,154.24
A02 Preliminary Design Reimbursable Expenses	8,000.00	37.50	2,999.93	5,000.07	2,200.00
A03 Right-of-Way Parcel Exhibits	15,000.00	0.00	0.00	15,000.00	0.00
C01 Final Design Services	456,750.00	0.00	0.00	456,750.00	0.00
C02 Final Design Reimbursable Expenses	10,000.00	0.00	0.00	10,000.00	0.00
D01 Bid & Construction Phase Services	31,610.00	0.00	0.00	31,610.00	0.00
D02 Bid & Construction Phase Reimbursable Expenses	3,500.00	0.00	0.00	3,500.00	0.00
Total	1,045,280.00 ✓	27.92	291,810.39 ✓	753,469.61 ✓	116,354.24

## **BRANDT ROAD: FROM MCCRARY ROAD TO MASON ROAD**

**Fort Bend Count Proj. No.:** 17310  
**TAI Job No.:** 0522-1801  
**TBPE Registration No.:** F-003832

### **Re: August 2018 - STATUS REPORT**

The following is a comprehensive summary of the progress for the Surveying and Design of the aforementioned project:

#### **Survey**

1. Survey Control and recovery of Right of Way and Boundary Substantially Complete
2. Topographic Survey is 5% complete
3. Obtained AT&T and CenterPoint Maps
4. Performed ONE CALL for underground utility locations
5. Obtained plans from FCMUD 143 and McCrary Meadows Engineers (LIA only)
6. Obtained plans from FCMUD 146 Engineers
7. Requested plans from Pecan Grove MUD
8. Met with FBCMUD 143 and McCrary Meadows Engineers
9. Received Abstracting data for preparation of working sketch
10. Began working sketch
11. Received Brandt Road CADD file alignment from McCrary Road to east
12. Received Drainage Study from LJA from west side of McCrary Meadows
13. Topographic survey is 50% complete.
14. Substantially complete on boundary analysis (received boundary control from Jones & Carter).
15. Received plans from Pecan Grove MUD engineer.
16. Topographic survey is 70% complete.
17. Received Brandt Road alignment CADD file from J&C (from Precinct Line Road westward).
18. Received P&P sheets from Energy Transfer PL for the 4' & 6" lines from Mason Road to McCrary Road.
19. Prepared preliminary alignment center line from McCrary to Mason. Received intersection location from Civil Corp for the McCrary and Brandt Road intersection.
20. Preparing preliminary design of roundabouts for Precinct Line Road and James Long Parkway/Skinner Road intersections.
21. Located probes for 14-inch south cross line between Mason and Skinner.
22. Met with Energy Transfer to discuss alignment at the project site.
23. Performed surveying on Mr. Yan property at Skinner and proposed Brandt and discussed surveying on his property. Received a Letter for Right of Entry from Mr. Yan.
24. Topo survey is complete. ROW still needs to be finalized.

#### **Drainage Study**

1. Obtained master study from County for area and LiDAR (no change).
2. Obtained information from Ventana engineers (still need some more).
3. Delineated overall drainage boundary and sub boundaries of project.
4. Started HEC-RAS model
5. 95% complete on HEC-RAS Model.
6. 50% complete on drainage report.

#### **Engineering and Other Services**

1. PER is 75% complete, including 30% drawings and preliminary drainage analysis.

2. Started roundabout iterations for the Precinct Line and James Long intersections.
3. Completed drillings for geotech report.
4. Coordinated with Bio-West on obtaining OHWM definition to ensure a Corp permit will not be required.
5. Structural working on preliminary bridge layout and cross section. Bridge to be 195-feet long (3 65-foot sections)

**Work to be accomplished September 1 to September 30, 2018:**

1. Complete written report of drainage study.
2. Complete geo report
3. Complete the initial layout on the roundabouts.
4. Complete bridge layout, profile, and cross sections.
5. Complete 30% drawings
6. Finish the cost estimate.
7. Finalize and submit the PER for Complete boundary Analysis and right of way location
8. Prepare for October 9<sup>th</sup> PER with county.

**Issues or problems:**

1. West end ROW alignment issue between LJA and Jones and Carter need to get resolved.
2. Conflict with structure on Mr. Yan's property. Boundary overlap with adjacent plat.
3. Continued coordination with utility relocations with FBC MUD 143, FBC MUD 146, Pecan Grove MUD, South Cross and Energy Transfer at various locations along the route.
4. Need Bio-West to obtain right of entry to properties along Jones Creek to verify exact location of OHWM.
5. TAI to determine most cost effective way to build roadway near east end of bridge – small retaining walls near the existing ROW or obtain additional ROW.

## **Svatek, Donna**

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**From:** Elise Dillow <edillow@spi-eng.com>  
**Sent:** Thursday, September 20, 2018 4:23 PM  
**To:** ENGInvoices  
**Cc:** Mark Dessens  
**Subject:** RE: Invoice for Brandt Road PO# 166144  
**Attachments:** 2018 August\_Invoice# 29372.pdf

Good Afternoon,

Please find attached TERRA's invoice for Brandt Road. I have reviewed the invoice and approve it for processing. If you have any questions, please let me know.

Thank you,

Elise Dillow, EIT  
Schaumburg & Polk, Inc.  
(281) 920-0487 office

-----Original Message-----

**From:** Harris, Britten <Britten.Harris@fortbendcountytexas.gov>  
**Sent:** Thursday, September 20, 2018 2:45 PM  
**To:** Vickie Henkel <vlh@terraassoc.com>; Elise Dillow <edillow@spi-eng.com>  
**Cc:** ENGInvoices <ENGInvoices@fortbendcountytexas.gov>  
**Subject:** RE: Invoice for Brandt Road PO# 166144

Thanks Vickie,

We will get this one processed. Please update your records to send future invoices to [enginvoices@fortbendcountytexas.gov](mailto:enginvoices@fortbendcountytexas.gov). You may remove Britten and Donna individual emails. Let me know if you have any questions.

Thanks!  
Britten Harris  
Admin Assistant - Engineering  
Fort Bend County Engineering  
301 Jackson St. Ste 401 | Richmond Tx 77469 [Britten.harris@fortbendcountytexas.gov](mailto:Britten.harris@fortbendcountytexas.gov)  
Phone: 281-633-7539

-----Original Message-----

**From:** Vickie Henkel <vlh@terraassoc.com>  
**Sent:** Thursday, September 20, 2018 2:29 PM  
**To:** Elise Dillow <edillow@spi-eng.com>  
**Cc:** Harris, Britten <Britten.Harris@fortbendcountytexas.gov>; Svatek, Donna <Donna.Svatek@fortbendcountytexas.gov>