

STATE OF TEXAS           §  
  §  
COUNTY OF FORT BEND   §

**AMENDMENT TO AGREEMENT FOR  
PROFESSIONAL ENGINEERING SERVICES**

**THIS AMENDMENT**, is made and entered into by and between Fort Bend County (hereinafter "County"), a body corporate and politic under the laws of the State of Texas, and Huitt-Zollars, Inc., (hereinafter "Contractor"), a company authorized to conduct business in the State of Texas.

WHEREAS, the parties executed and accepted that certain Agreement for Professional Engineering Services on May 8, 2018, (hereinafter "Agreement") pursuant to SOQ 14-025; and

WHEREAS, the parties desire to amend the Agreement for additional engineering services to be provided and increase the total Maximum Compensation for such additional services.

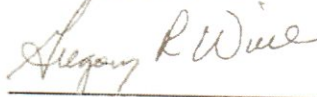
**NOW, THEREFORE**, the parties do mutually agree as follows:

1. County shall pay Contractor an additional forty-two thousand nine hundred dollars and 00/100 (\$42,900.00) for the additional engineering services as described in Contractor's proposal dated January 14, 2019 attached hereto as Exhibit "A" and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for Services rendered is hereby increased to an amount not to exceed four hundred three thousand six hundred sixty-three dollars and 00/100 (\$403,663.00), authorized as follows:  
    \$360,763.00 under the Agreement; and  
    \$42,900.00 under this Amendment.
3. In no case shall the amount paid by County for all Services under the Agreement and this Amendment exceed the Maximum Compensation without further written agreement executed by the parties.

Except as provided herein, all terms and conditions of the Agreement shall remain unchanged.

FORT BEND COUNTY

HUITT-ZOLLARS, INC



\_\_\_\_\_  
KP George, County Judge

\_\_\_\_\_  
Gregory R. Wine, P.E., LEED, AP, Senior Vice President

1/29/19

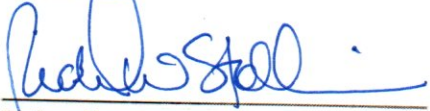
\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

ATTEST:

\_\_\_\_\_  
Laura Richard, County Clerk

APPROVED:



\_\_\_\_\_  
Richard W. Stolleis, P.E., County Engineer

APPROVED AS TO LEGAL FORM:

\_\_\_\_\_  
Marcus D. Spencer, First Assistant County Attorney

**AUDITOR'S CERTIFICATE**

I hereby certify that funds are available in the amount of \$ \_\_\_\_\_ to accomplish and pay the obligation of Fort Bend County under this contract.

\_\_\_\_\_  
Robert Ed Sturdivant, County Auditor

F:\Marcus\Agreements\Engineering\Road Construction\Old Richmond\17208\Amend 1 - Pro Eng Svcs.Old Richmond.HZ.docx.1/23/2019

# EXHIBIT A

January 14, 2019

Raul Fung  
C/O Fort Bend County Engineering  
Senior Project Engineer  
RPS | Infrastructure  
1160 N Dairy Ashford, Suite 500,  
Houston, Texas 77079

Reference: Old Richmond Road from Belknap Rd to Sugarland Howell Rd  
Fort Bend County 2017 Mobility Bond Program

Subject: Proposal – Update Final Engineering documents

Dear Mr. Fung,

Enclosed are Huitt-Zollars, Inc.'s proposed budget, manpower and direct expense breakdown and scope of services for completing the changes to the Storm sewer design and the detention pond design identified after the 70% submittal to the client. HZ will include these updates in the upcoming 95% submittal Final Engineering documents for the above referenced project based on the executed contract documents for the above project.

Huitt-Zollars, Inc.'s proposed budgets for referenced project follow:

Phase 2 – Final Design Services (Lump sum)	\$ 28,884.50
<b>Total Basic Services Fee</b>	<b>\$ 28,884.50</b>

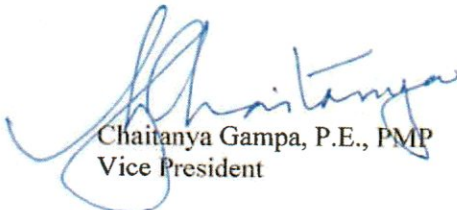
**Additional Services**


1) Route Topographic Survey (Lump sum)	\$ 8,205.00
2) Proposed ROW Maps, Metes & Bounds	\$ 3,500.00
3) Geotechnical Investigation (Lump sum)	\$ 2,310.50
<b>Total Additional Services Fee</b>	<b>\$ 14,015.50</b>

Our total proposed budget for the above services is estimated to be **\$ 42,900.00**. Detailed scope of services and level of effort on the basic services and additional services are attached. Also attached are the proposals from Sub consultants for the additional services. Should you have any questions, or require additional information, please call. Thank you.

Upon receipt of a written notice to proceed, we will commence work. Thank you.

Sincerely,  
**Huitt-Zollars, Inc.**

  
Chaitanya Gampa, P.E., PMP  
Vice President

  
Daniel Menendez, P.E., PWLF  
Vice President

**PROJECT BUDGET WORKSHEET - Houston 2018**

Client: Fort Bend County Engineering  
 Project Name: Old Richmond Road from Sugarland Howell Road to Belknap Road  
 Contract No.: 2017 Mobility Bond Program  
 Project No.: R309500.01

Date: 1/14/2018  
 Project Number: R309500.01  
 Project Template:  
 Labor Code Schedule: HO17

Phase Number	1		1		3		3		3		4		RMB Reimbursable Expenses
	Survey	Survey	Survey	Survey	DESIGN PHASE A	DESIGN PHASE B	DESIGN PHASE C	DESIGN PHASE I	DESIGN PHASE	DESIGN PHASE	GEOTECHNICAL		
Task Number	A	B	A	B	A	B	C	I					
Task Description	TOPOGRAPHIC ROUTE SURVEY	PARCEL ACQUISITION	UPDATE PLAN & PROFILE DRAWINGS, quantities	UPDATE DRAINAGE AREA MAP & CALCULATION SHEETS	UPDATE DETENTION POND DESIGN AND LAYOUT	Project Coordination & Management							
Phase/Task Manager													
Lump Sum or Hourly													
Labor Code	Labor Classification	Hourly Rate	Column Total	Column Total	Column Total	Column Total	Column Total	Column Total	Column Total	Column Total	Column Total	Column Total	TOTAL BUDGET
PIC	Principal-In-Charge	\$ 245.00											0 \$
DPX	Design Principal	\$ 210.00											0 \$
SPM	Sr. Project Manager	\$ 210.00											0 \$
PMX	Project Manager	\$ 185.00											0 \$
QAM	QA Manager	\$ 190.00			2								2 \$
SCE	Sr. Civil Engineer	\$ 180.00			8					12			26 \$
CEX	Civil Engineer	\$ 175.00			12					8			20 \$
EIT	Engineer Intern	\$ 120.00			48					12			72 \$
SCT	Sr. CADD Technician	\$ 130.00			60					20			88 \$
CTX	CADD Technician	\$ 90.00											0 \$
PSS	Senior Project Support	\$ 95.00								2			2 \$
PRO	Project Support	\$ 70.00								0			0 \$
Total Manhours per Phase/Task			0	0	130	24	42	14	210				
HZ Labor per Phase/Task			\$ -	\$ -	\$ 17,480.00	\$ 3,200.00	\$ 5,800.00	\$ 2,350.00	\$ -	\$ -	\$ -	\$ -	\$ 28,830.00
Direct Expenses (Distribute among Phases/Tasks as applicable)			\$ -	\$ -	\$ 54.50	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54.50
Direct Consultants (Distribute among Phases/Tasks as applicable)			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RMB Expenses			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
RMB Consultants (Distribute among Phases/Tasks as applicable)			\$ 8,205.00	\$ 3,500.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,310.50	\$ -	\$ -	\$ 14,015.50
Total Fee per Phase/Task			\$ 8,205.00	\$ 3,500.00	\$ 17,534.50	\$ 3,200.00	\$ 5,800.00	\$ 2,350.00	\$ 2,310.50	\$ -	\$ -	\$ -	\$ 42,900.00

## **Exhibit “A” – Land Surveying Scope 650’x250’ Drainage/Detention Parcel**

### **Topographic Survey**

Topographic survey will be completed within the limits of the attached exhibit, being approximately 4-acres. All above ground features will be tied in, including 100-foot cross. Storm and Sanitary pipes will be located and invert measurements will be recorded. A one-call will be made to have utilities located throughout the corridor, and all tone marks will be surveyed/tied into the project control. Geotechnical borings will be located and surveyed/tied into the project control.

In addition to the topographic surveying detail listed above, a Digital Terrain Model (DTM) will be prepared for the project corridor, within the limits of the survey scope.

### **Proposed Detention Parcel**

Proposed right-of-way parcel will include a Category 1A boundary survey and metes & bounds legal description of the subject tract. Deliverables will consist of a signed and sealed survey drawing of the subject tract, and a signed and sealed metes & bounds legal description.

**COBB, FENDLEY & ASSOCIATES, INC.**

DATE: April 17, 2018

**COST ESTIMATE FOR:**

Huitt-Zollars  
 10350 Richmond Ave, Ste. 300  
 Houston, TX 77042  
 281.496.0066  
 Attn: Chaitanya Gampa, PE, PMP

**Mobility Bond Program**  
 Work Authorization No. \_\_\_\_\_  
 Project No. 17208

**Description:** Old Richmond Road, Drainage Detention Parcel, Topographic Survey & Boundary.  
 Approximately 4-acres (650ft x 250ft)

(See Scope on Exhibit "A" for Survey Details)

Approximate Number of Tracts: 1  
 Approximate Linear Footage: n/a

DESCRIPTION	Staff Type	RPLS	Senior Tech	Tech	Drone	Research	Clerical	Admin Asst	Survey Field Super	1-Man Survey Crew	2-Man Survey Crew	3-Man Survey Crew	Total by Task
	Hourly Rates*	\$165.00	\$120.00	\$110.00	\$225.00	\$120.00	\$75.00	\$45.00	\$90.00	\$120.00	\$140.00	\$160.00	
Survey Control, Traverse & GPS	1	2	0	0	0	0	0	0	0	0	3	0	\$825.00
Survey Control Map & Layout	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
Topographic Surveying	4	16	0	0	0	0	0	0	0	0	0	30	\$7,380.00
RIGHT-OF-WAY (Existing)	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
Lateral Ditches (600ft total)	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
Proposed ROW and Parcel	4	12	0	0	0	0	0	0	0	0	10	0	\$0.00
<b>Total Hours</b>	<b>9</b>	<b>30</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>30</b>	<b>82</b>
<b>Sub-Total</b>	<b>\$1,485.00</b>	<b>\$3,600.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,820.00</b>	<b>\$4,800.00</b>	<b>\$11,705.00</b>

Staff Cost	\$11,705.00
Reimbursables, survey	\$125.00
<b>Total Cost of Project</b>	<b>\$11,830.00</b>

(Copies, reproduction, mileage, etc.)



DETENTION UPDATED

100'

250'

650'

50'

MA2

MA2

OUT

A6

A10

A15

A20



Houston 6120 S. Dairy Ashford Rd.  
Houston, TX 77072-1010  
Austin 281.933.7388 Ph  
Dallas 281.933.7293 Fax  
San Antonio [www.hvj.com](http://www.hvj.com)

December 12, 2018

Ms. Chaitanya Gampa, PE, PMP  
Vice President  
Huitt-Zollars  
10350 Richmond Avenue  
Houston, Texas 77042

Re: Geotechnical Study - Supplemental  
Old Richmond Road Reconstruction  
From Sugarland-Howell Road to Belknap Road  
Fort Bend County, Texas  
Owner: Fort Bend County  
HVJ Proposal No: HG1810142.1

Dear Ms. Gampa:

In response to your request HVJ Associates, Inc. is pleased to submit this proposal for the supplemental work related to our on-going geotechnical study for the reconstruction of Old Richmond Road between Sugarland-Howell Road and Belknap Road in Fort Bend County, Texas. A supplemental work authorization is needed to perform additional boring for the proposed 54-inch storm sewer between Old Richmond Road and proposed detention basin.

**Project Description:**

The existing 2-lane asphalt road will be replaced with 3-lane concrete road with curb and gutter. Sidewalk will be built on both sides of the road. The project also includes installation of storm sewers along the proposed project alignment. Based on the recent information provided to us, we understand that a 54-inch storm sewer will be installed between Old Richmond Road and detention basin proposed at about 500 feet north of Old Richmond Road and adjacent to the Power Line easement near Keegans Bayou. The invert depth of 54-inch storm sewer will not exceed 12 feet below the existing grade. The area of detention basin will be about 2 acres and its depth will be about 18 feet below the existing grade. The purpose of our study is to provide geotechnical recommendations for the installation of storm sewers, pavement reconstruction and the detention basin construction.

**Scope of Work:**

We received the work authorization to perform seven 25-foot borings for the pavement, storm sewers along Old Richmond Road, and two 35-foot borings for the detention pond. This supplemental proposal will cover the effort needed to perform additional 25-foot deep boring for the proposed 54-inch storm sewer between Old Richmond Road and proposed detention basin.

Ms. Chaitanya Gampa, PE, PMP  
HG1810142.2  
December 12, 2018

The boring will be sampled continuously to a depth of 20 feet and from 23 to 25 feet. The boring will be used to determine site stratigraphy and to obtain samples for laboratory testing. The borehole will be backfilled with cement grout to the full depth. All the field and laboratory tests will be performed according to ASTM standards, where applicable, or with other well-established procedures.

The report will be updated to include additional data, design and construction recommendations for the 54-inch storm sewer. In general, the following items will be included in the combined report:

- Boring logs and test data,
- Groundwater conditions,
- Generalized subsurface conditions,
- Existing asphalt pavement thickness,
- Concrete Pavement design recommendations,
- Recommendations for utilities installation by open-cut techniques,
- Bedding and backfill recommendations for utilities under concrete and under natural ground,
- Slope stability analysis for the detention basin,
- Structural fill requirements and general earthwork recommendations.

A report of our study will be prepared by an engineer specializing in soil mechanics and foundation engineering after reviewing available structural, geological, boring, and laboratory data.

#### **Schedule**

We expect to complete this supplemental work in approximately three to four weeks following our receipt of your written notice to proceed and right-of-entry letter to access the boring location, whichever is later. If requested, verbal recommendations can be provided throughout the progress of the investigation as testing is completed.

Two draft copies of our geotechnical report will be delivered for review by Huitt-Zollars and Fort Bend County. After approval of our draft reports by Huitt-Zollars and Fort Bend County, two final copies of the report will be submitted.

#### **Fees and Conditions**

Based on the scope of work outlined, the estimated fee for our services is as follows

- Fee authorized to date – \$27,223.00
- Additional fee for the supplement study  
(One 25-foot boring for 54-inch storm sewer) – \$2,310.50 (lumpsum)

This estimate is made with the assumption that the site is accessible to the buggy mounted drilling equipment. Our accounting procedures call for the submittal of invoices on a month-end basis or at the conclusion of project should its duration last less than a month.

Ms. Chaitanya Gampa, PE, PMP  
HG1810142.2  
December 12, 2018

Huitt-Zollars will be responsible for notifying us of any utilities that may be present at the site, and for locating them. We will take care to minimize damage to the existing facilities; however, our activities may result in damage to vegetation or unidentified existing utilities. This proposal specifically excludes any costs associated with restoration of vegetation or repair of such utilities damaged by our operations.

Right-of-Entry and coordination needed for access to the boring location will be handled by Huitt-Zollars and/or Fort Bend County.

Laboratory samples will be held for no more than a period of 3 months after completion of the draft report or 1 month after completion of the final report, whichever is less.

Huitt-Zollars will be responsible for providing a site plan suitable for use as a base map for our plan of boring, Plan and Profile drawings of the storm sewer and cross-section of the proposed detention basin. The horizontal position of the boring will be determined using a consumer-grade GPS.

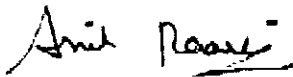
Insurance certificates verifying HVJ Associates' general liability, auto, workers' compensation, and errors and omissions insurance coverage will be provided upon request.

If this proposal meets with your approval, please sign and complete the indicated spaces below and forward a copy of the proposal to us. Our accounting procedures call for the submittal of invoices on a month-end basis or at the conclusion of project should its duration last less than one month. Our credit terms are net 30 days.

HVJ Associates, Inc. appreciates the opportunity to work with Huitt-Zollars. Please contact us if you have any questions or require additional information.

Sincerely,

**HVJ ASSOCIATES, INC.**



Anil Raavi, PE  
Professional Services Manager

Agreed to this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Firm: \_\_\_\_\_

Phone No.: \_\_\_\_\_ 281-496-0066

Date to start work: \_\_\_\_\_

**GEOTECHNICAL ESTIMATE**  
**Old Richmond Road Reconstruction**  
**Client: Huitt-Zollars**  
 HVJ Proposal No. HG1810142.2  
 December 12, 2018

**TABLE - GEOTECHNICAL BREAKDOWN**  
**54-INCH STORM SEWER BETWEEN OLD RICHMOND ROAD AND DETENTION BASIN**

**Field Exploration**

Mob/Demob	1 @	\$300.00	LS	\$300.00
Drilling and Sampling (continuous)	20 ft @	\$18.00	per ft	\$360.00
Drilling and Sampling (intermittent)	5 ft @	\$16.00	per ft	\$80.00
Boring Not Accessible by Truck Mounted Equipment Surcharge	25 ft @	\$2.00	per ft	\$50.00
Grouting (Tremie Method to full depth of the borings)	25 ft @	\$5.00	per ft	\$125.00
Field Technician (rig/traffic coordinaton, utilities, staking, borehole logging, etc)	5 hr @	\$45.00	per hour	\$225.00
Vehicle Trips (rig/traffic coordinaton, utilities, staking, borehole logging, etc)	5 hr @	\$7.50	per hour	\$37.50
Piezometer Installation	0 ft @	\$14.00	per ft	\$0.00
Piezometer Abandonment	0 ft @	\$12.50	per ft	\$0.00
Field Technician (PZ Readings)	0 hr @	\$45.00	per hour	\$0.00
Vehicle Trips (PZ Readings)	0 hr @	\$7.50	per hour	\$0.00
Cores (up to 7 inches thick)	0 @	\$90.00	each	\$0.00
Traffic Control	0 hr @	\$45.00	per hour	\$0.00
			<b>Subtotal</b>	<b>\$1,177.50</b>

**Laboratory Testing**

Moisture Content (ASTM D-2216)	5 @	\$8.00	each	\$40.00
Unconsolidated Compression (ASTM D-2166)	1 @	\$39.00	each	\$39.00
Atterberg Limits (ASTM D-4318)	3 @	\$53.00	each	\$159.00
Percent Passing #200 Sieve (ASTM D-1120)	3 @	\$41.00	each	\$123.00
Moisture/Density Relationship (ASTM D-698)	0 @	\$130.00	each	\$0.00
California Bearing Ratio (ASTM D-1883)	0 @	\$140.00	each	\$0.00
Unconsolidated Undrained (ASTM D-2850)	2 @	\$54.00	each	\$108.00
Crumb Test (ASTM D-6572)	0 @	\$33.00	each	\$0.00
Double Hydrometer (ASTM D-4221)	0 @	\$152.00	each	\$0.00
Consolidated Undrained Triaxial (ASTM D-4767)	0 @	\$1,800.00	each set	\$0.00
			<b>Subtotal</b>	<b>\$469.00</b>

**Engineering, Report Preparation and Administration**

Senior Engineer, P.E.	0 hr @	\$123.00	per hour	\$0.00
Project Manager	1 hr @	\$96.00	per hour	\$96.00
Staff Engineer	6 hr @	\$82.00	per hour	\$492.00
Graduate Engineer	1 hr @	\$76.00	per hour	\$76.00
Clerk/Typist	0 hr @	\$45.00	per hour	\$0.00
			<b>Subtotal</b>	<b>\$664.00</b>

**TOTAL GEOTECHNICAL SERVICES**

**\$2,310.50**



DETENTION UPDATED

100'

250'

650'

B-8 (25')

B-10 (25')

B-8 (25')

50'

MA2

MD2

A6

A10

A15

A30

OUT



Belknap Rd

400 ft

B-7

Old Richmond Road

Overview

B-6

Towne-Tow

B-10 (35)

B-9 (35)

B-8 (25)

Towne-Bree

B-5

Bonnetonia Ln

Orchid Breeze Ln

Coral Wood Ln

Marvin Ln

Google Earth

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