

5/24/11 Drainage Agenda item:

Take all appropriate action on a Second Amendment to the Interlocal Agreement (originated July 18, 2006) between Fort Bend County Drainage District and the City of Sugar Land for the Procurement of Engineering Services related to the design of the extension of Ditch H to Oyster Creek in an not to exceed \$62,000, and bringing the total engineering contract amount to \$401,000, Precinct 4

AGENDA ITEM

D4

1 original only

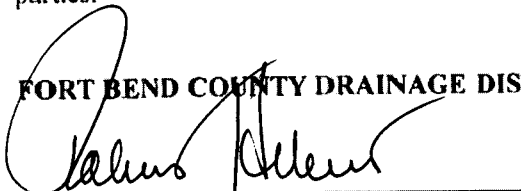
6/1/11 original returned to Rose Ann at Drainage

the Drainage District.

Section 2. Except as provided by this Second Amendment, the terms of the Original Agreement and First Amendment remain in effect.

Section 3. Execution. IN WITNESS HEREOF, the parties have executed this Second Amendment in multiple copies, each of which is deemed to be an original of the same agreement. This Second Amendment is effective on the latest date of the dates signed by the parties.

FORT BEND COUNTY DRAINAGE DISTRICT



Robert Hebert, County Judge

Date May 24, 2011

ATTEST:



Dianne Wilson, Fort Bend County Clerk

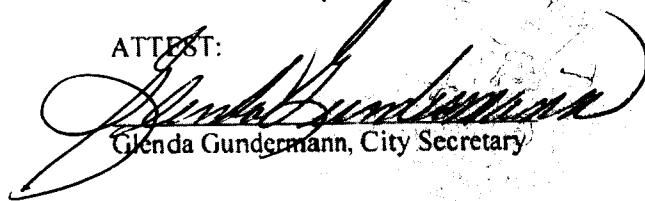
CITY OF SUGAR LAND



Allen Bogard, City Manager

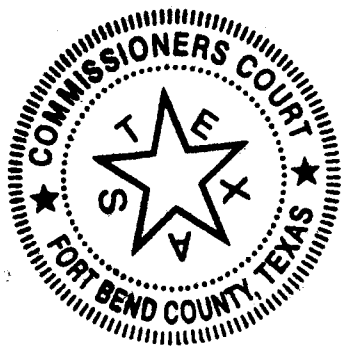
Date: 5-9-11

ATTEST:



Glenda Gundermann, City Secretary

I:MER/Sugar Land/Interlocal.Ditch H.3656



Interlocal Agreement
City of Sugar Land - Ditch II



April 1, 2009

Mr. Mark Vogler
District Engineer
Fort Bend County Drainage District
1004 Blume Road
Rosenberg, Texas 77471

Re: Professional Services Proposal for Final Design (Update)
Ditch "H" Channel Extension to Oyster Creek
BGE Project No. FBC15-02

Dear Mr. Vogler:

As requested by telephone on Monday, March 30, 2009; we are pleased to provide this revised proposal for professional engineering services to complete this project. This includes the following major revisions:

1. Reconfiguration of the hydraulic structure to prevent Brazos River backwater from entering Oyster Creek. (Previously submitted as an additional services proposal on April 13, 2007.)
2. Additional design coordination and technical support for the Union Pacific Railroad bridge design.
3. Re-design of construction plans to change the project scope of work from multiple culverts to a bridge at the Union Pacific Railroad.
4. Revised professional services budgets which are based on an updated and current Brown & Gay Engineers, Inc. rate schedule.

These services will be provided under the terms and conditions of the existing agreement for professional services to provide final design and construction phase services for the Ditch "H" Extension to Oyster Creek that was approved by Commissioners Court on July 18, 2006.

We propose to provide the scope of services described in **Attachment A** on a lump sum basis. Invoices will be mailed monthly and payable upon receipt. We estimate the fees for the above-described scope of services not to exceed **\$73,000**, resulting in an increase in total compensation from **\$266,000** to **\$339,000**. The proposed cost details for the total estimated fee are shown in **Attachment B**.

Attachment C provides the current Brown & Gay Engineers, Inc. rate schedule which serves as the basis for Tasks 300-8 thru 300-16 and Task 400 budgets.

Mr. Mark Vogler, PE
Fort Bend County Drainage District
April 1, 2009
Page 2


Summarized below in **Table 1** is a comparison of the original contract task budgets to the current proposal amounts.

Table 1
Comparison Task Budget Comparison

Task	Task Description	2006 Budget	2009 Budget	Fee Increase
100	Environmental & Surveying	\$ 43,565	\$ 43,565	\$ -
150	UPRR Coordination		\$ 29,280	\$ 29,280
200	HEC-RAS Modeling & Report	\$ 38,640	\$ 38,640	\$ -
300	Final Design Documents - Civil	\$ 105,785	\$ 107,600	\$ 1,815
350	Final Design Documents - Structural	\$ 17,330	\$ 54,160	\$ 36,830
400	Phase III Services	\$ 60,680	\$ 65,540	\$ 4,860
	Totals	\$ 266,000	\$ 339,000	\$ 73,000

We look forward to our continued work on this important project and will provide these services in coordination with your office along with the City of Sugar Land. Should you have any questions, please give me a call.

Sincerely,



Lee C. Lennard, P.E.
Director, Public Works

Enclosures

cc: Shashi K. Kumar, PE, CFM

ATTACHMENT A

General

From the recommendations in the October 2002 "Upper Oyster Creek and Ditch H Drainage Study and Improvement Plan" (the Study) prepared for Fort Bend County, the City of Sugar Land and Levee Improvement District No. 2; this project proposes a construction plan for the extension of Ditch H from its existing terminus downstream of US 90A up to Oyster Creek. All documents generated as part of this project will be the property of the project participants, and will be furnished to the participants when required.

Final Design Tasks

100 – Surveying and Environmental Services

1. Obtain an environmental permit for the project under nationwide authority.
2. Prepare archaeological report for cultural resource investigation of the site.
3. Prepare legal description/s and exhibits for any additional easements or right-of-way necessary for this project. This will be in a form that can be attached to the easement document for recording. Estimate is based on four tracts (Const access (2 places), fill placement, and storm sewer)
4. Obtain supplemental topography at upstream end of box culverts and along SH 6 where highway construction has altered the area.
5. Stake boundaries of the proposed right-of-way and the project baseline in the field. Place iron rods, if necessary.

150 – Union Pacific Railroad (UPRR) Coordination

1. Provide UPRR design consultant with surveying data.
2. Coordinate the Ditch "H" Extension design requirements with UPRR bridge design.
3. Evaluate the HEC-RAS hydraulic model with the proposed bridge in place.
4. Attend meetings and provide technical support to Fort Bend County for UPRR contract negotiations.
5. Prepare TXDOT driveway permit for UPRR access road.

200 – HEC-RAS Model Evaluation and Reporting

1. Develop unsteady flow HEC-RAS model (using FEMA model data) to evaluate preliminary engineering design layout.
2. Develop design refinements/modifications to accommodate revised hydraulic model results.
3. Hydraulic evaluation of design refinements/modifications to accommodate revised hydraulic model results.
4. Prepare H&H Report in accordance with UPRR guidelines for 60% design submittal.

300 – Final Engineering and Contract Document Preparation

1. Prepare cover sheet, general notes, control survey and standard detail drawings (4 sheets) in accordance with Fort Bend County and City of Sugar Land Design Standards.
2. Prepare plan and profile drawings including , baffled chute, channel modifications, culvert installation, and storm sewer (6 sheets).

ATTACHMENT A

3. Prepare cross-sections for weir structure, baffled chute, channel modifications, culvert installation, and storm sewer (4 sheets).
4. Prepare details for channel modifications, culvert installation, and storm sewer.
5. Prepare structural details for weir structure, baffled chute, channel modifications, culvert installation, and storm sewer (8 sheets).
6. Prepare plan and details for stormwater pollution prevention (2 sheets).
7. Prepare 60% design submittal for review and comment including 60% plans, specifications list, and cost estimates.
8. Incorporate 60% design comments and complete drawings.
9. Prepare 90% design submittal for review and comment including 90% plans, specifications, and cost estimates.
10. Incorporate 90% design comments and complete drawings.
11. Prepare bid document submittal for review and concurrence including plans, specifications, and cost estimates.
12. Obtain private utility approval for design documents.
13. Obtain public agency approval for design documents.
14. Submit approved design documents for bids.
15. Provide bidding assistance including pre-bid meeting, preparation of addenda (as required), bid tabulation, bid evaluation, and recommendation.
16. Incorporate Brazos River stop log structure into spillway design at 90% submittal. See attached additional services request (updated to current rate schedule).

400 – Construction Phase Services

1. Meetings
 - a. Engineer shall attend the construction kickoff meeting, respond to questions and prepare minutes of the meeting for submittal to the District within three (3) days after the meeting.
 - b. Engineer shall attend monthly project status meetings at the project site conducted by the District. Engineer shall report on the status of submittals and responses to design-related questions and requests for information (RFI). The Engineer shall prepare progress meetings minutes.
2. Submittals
 - a. Engineer will review contractor's submittals for general conformance with the Contract required by the technical specifications. Submittals to be reviewed by Engineer include samples, catalog data, schedules, shop drawings, laboratory data, shop and mill test reports, material test reports, and any other data required by the Contract Documents. Engineer shall document review comments, review action and maintain a log of the contractor submittals.
 - b. The Engineer shall prepare written responses to written RFIs from the Contractor, the City, or the District. Engineer shall prepare written responses, supplemented with elementary sketches, as required. Engineer shall maintain a log of receipt, review action taken, and the transmittal of requests for information received.

ATTACHMENT A

- c. Engineer shall assist the District with review of proposals and change order requests that may originate from Contractor, City, or District. Potential change orders shall be reviewed for conformance with original design intent. Engineer shall maintain a log of the receipt, review action taken, and the transmittal of forms received from the District.
3. Observation
 - a. Engineer shall perform periodic observation (a minimum of one site visit per month in addition to monthly project status meetings) of the progress and quality of executed work. Engineer shall provide his opinion to the District regarding progress of the work and its conformance with Contract Documents.
 - b. Engineer shall assist the District to determine if substantial completion requirements have been satisfied. Engineer's services shall be limited to job site visits for the purpose of preparing one punch list for substantial completion review and one punch list for final acceptance review. Engineer shall prepare and submit a letter stating that the project has been constructed substantially in accordance with the Contract Documents.
4. Final Project Documentation
 - a. Upon written authorization of the District, Engineer shall perform calculations to determine final excavation and material quantities for the project and assist the District in determining other final payment quantities.
 - b. Update H&H models and supporting spreadsheets to reflect the performance of the as-built project.
5. Provide as-built drawings to participants upon construction completion to show changes from original design that were constructed in the completed project (based on 24 sheets).



Project: Ditch H Channel Extension to Oyster Creek - Final Design
 Client: Fort Bend County & City of Sugar Land
 Date: 03/31/2009
 By: cwf/rlc
 Filename: M:\Projects\Fbc\FBC15-02\Admin\Contract\Proposal\20090331\20090401- Revised Proposal Fee-Ditch H Extension.xls\Proposal 090331

ATTACHMENT B

Scope of Work and Estimated Engineering Fee for Ditch H Channel Extension to Oyster Creek (Updated)

Task No.	Description	Engineering Hours					Surveying Hours			Sub-Consultant	Cost	
		Prin	PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech	LS Crew			
100 - Surveying and Environmental Services												
1	Obtain Environmental Permit for constructing the project			8			4				\$ 9,680	\$ 11,200
2	Prepare archaeological investigation report for the site	2		8			4				\$ 10,995	\$ 12,915
3	Prepare legal descriptions and exhibits for any additional easements or rights-of-way necessary for this project. Estimate is based on four tracts (Const access (2 plus), fill placement, and storm sewer)			4				8	32	32		\$ 8,400
4	Obtain supplemental topography at upstream end of box culverts and along SH 6 where highway construction has altered the area.			4		16	4	2	4	24		\$ 6,800
5	Stake boundaries of the proposed right-of-way and the project baseline in the field. Place iron rods, if necessary.							4	6	24		\$ 4,250
	Subtotal Surveying and Environmental Services	2	24	16	4	8	14	42	80		\$	43,565
150 - Union Pacific Railroad (UPRR) Coordination												
1	Provide UPRR design consultant with surveying data	2	20									\$ 3,600
2	Coordinate the Ditch "H" Extension design requirements with UPRR bridge	2	60									\$ 10,000
3	Evaluate the HEC-RAS hydraulic model with the proposed bridge in place	2	20	16	16	20						\$ 8,160
4	Attend meetings and provide technical support to Fort Bend County for UPRR contract negotiations	6	40									\$ 7,600
5	Prepare TXDOT driveway permit for UPRR access road	2	10	16	16	40						\$ 7,760
	Less - Original Contract Task C.12 - Union Pacific Railroad Approval	-2	-24	-16	-8	-16						\$ (7,840)
	Subtotal Surveying and Environmental Services	14	150	32	32	60	0	0	0	0	\$	29,280
200 - HEC-RAS Model Evaluation and Reporting												
1	Develop unsteady flow HEC-RAS model (using FEMA model data) to evaluate preliminary engineering design layout	2	24	60	32	16						\$ 15,280
2	Develop design refinements/modifications to accommodate revised hydraulic model results	1	16	40	20	4						\$ 9,600
3	Hydraulic evaluation of design refinements/modifications to accommodate revised hydraulic model results	1	16	40	20							\$ 9,360
4	Prepare H&H Report in accordance with UPRR guidelines for 60% design submittal		8	20	8							\$ 4,400
	Subtotal Reevaluate HEC-RAS Model Results	4	64	160	80	20	0	0	0	\$	\$	38,640



Project: Ditch H Channel Extension to Oyster Creek - Final Design
 Client: Fort Bend County & City of Sugar Land
 Date: 03/31/2009
 By: cw7fd
 Filename: M:\Projects\Fbc\FBC15-02\Admin\Contract\Proposal\20090331\20090401- Revised Proposal Fee-Ditch H Extension.xls\Proposal 090331

ATTACHMENT B

Scope of Work and Estimated Engineering Fee for Ditch H Channel Extension to Oyster Creek (Updated)

Task No.	Description	Engineering Hours				Surveying Hours			Sub-Consultant	Cost	
		Prin	PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech			LS Crew
300 - Final Engineering and Contract Document Preparation											
1	Prepare cover sheet, general notes, control survey and standard detail drawings		2	8	8						\$ 3,440
2	Prepare plan and profile drawings including channel improvements, weir structure, baffled chute, culvert installation, and storm sewer	4	20	40	60	80					\$ 19,000
3	Prepare cross-sections for weir structure, baffled chute, channel modifications, culvert installation, and storm sewer		16	24	40	80					\$ 13,840
4	Prepare details for channel modifications, culvert installation, and storm sewer		16	24	40	80					\$ 13,840
5	Prepare structural details for weir structure/baffled chute, stilling basin retaining walls, culvert headwall, and junction box		32	48	120	100					\$ 27,680
6	Prepare plan and details for stormwater pollution prevention		4	4	12	20					\$ 3,400
7	Submit 60% design documents including plans, specification and cost estimate for review and comments	2	4	8	8	12					\$ 3,440
8	Incorporate 60% design comments and complete drawings ¹		4	8	12	24					\$ 4,560
9	Submit 90% design documents for review and comments ¹	2	4	8	8	12					\$ 3,800
10	Incorporate 90% design comments and finalize drawings ¹		4	8	12	24					\$ 4,560
11	Submit final design documents for review and approval ¹	2	4	8	8	12					\$ 3,800
12	Obtain private utility approval for design documents ¹		4	8	8	8					\$ 3,040
13	Obtain public agency approval for design documents ¹		8	16	8	16					\$ 5,280
14	Submit approved design documents for bids ¹	2	4	8	8	8					\$ 3,520
15	Provide bidding assistance including pre-bid meeting, preparation of addenda (as required), bid tabulation, bid evaluation, and recommendation. ¹		12	12	8	8					\$ 4,960
16	Incorporate Brazos River stop log structure into spillway design at 90% submittal ^{1,2}	5	28	96	152	152					\$ 43,600
Subtotal Final Engineering & Design		12	138	232	360	508					\$ 161,760



Project: Ditch H Channel Extension to Oyster Creek - Final Design
 Client: Fort Bend County & City of Sugar Land
 Date: 03/31/2009
 By: ewf/lcl
 Filename: M:\Projects\Fbc\FBC15-02AAdmin\Contract\Proposal\20090331\20090401-Revised Proposal Fee-Ditch H Extension.xls\Proposal 090331

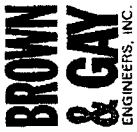
ATTACHMENT B

Scope of Work and Estimated Engineering Fee for Ditch H Channel Extension to Oyster Creek (Updated)

Task No.	Description	Engineering Hours				Surveying Hours			Sub-Consultant	Cost
		PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech	LS Crew		
400 - Construction Phase Services										
1	Attend construction kick-off and project progress meetings including meeting minutes (based on 8) 1	32	32		16					\$ 10,720
2	Review shop drawings and other submittals including response to RFIs and change orders (based on 20) 1	10	40	40	10					\$ 11,300
3	Periodic site observation with written report and project completion punchlist (based on 8, plus coord) 1	40	32	24	16					\$ 14,560
4	Provide H&H models, spreadsheets, etc. upon completion of the project. Provide final report to the project participants. 1	24	64	24	16					\$ 15,520
5	Provide as-built drawings to participants upon construction completion (based on 24 sheets) 1	4	24	48	72					\$ 13,440
Subtotal Construction Phase Services		110	192	136	130					\$ 65,540
Total Project Engineering Services Estimated Fee										\$ 339,000.00

NOTES:

- Hourly rates for task budget are based on the current 2009 BGE rate schedule.
- See following additional services proposal for details



Project: Ditch H Channel Extension to Oyster Creek - Final Design
 Client: Fort Bend County & City of Sugar Land
 Date: 03/31/2009
 By: ewfflcl
 Filename: M:\Projects\Fbc\FBC15-02\Admin\Contract\Proposal\20090331\20090401- Revised Proposal Fee-Ditch H Extension.xls\Proposal 090331

ATTACHMENT B

Scope of Work and Estimated Engineering Fee for Ditch H Channel Extension to Oyster Creek (Updated)

Task No.	Description	Engineering Hours				Surveying Hours			Sub-Consultant	Cost	
		Prin	PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech			LS Crew
Scope of Work and Estimated Engineering Fee for Reconfiguration of the Hydraulic Structure											
1	Stop Log Structural Support - Plan and Elevation Sheet (1 Sheet)	1	4	12	16	16					\$ 5,120
2	Stop Log Structural Support - Sections (3 Sheets)	1	6	30	48	40					\$ 12,520
3	Stop Log Structural Support - Details (3 Sheets)	1	6	30	48	40					\$ 12,520
4	Pedestrian Bridge Modifications for Vehicular Traffic - Plan/Elevation, Sections and Details (revise 3 sheets)	1	4	16	32	40					\$ 8,880
5	Civil Design for Reconfiguration incl Layout, Vehicular Access and Material Selection	1	8	8	8	16					\$ 4,560
6											\$ -
7											\$ -
8											\$ -
9											\$ -
10											\$ -
	Subtotal Hours	5	28	96	152	152	0	0	0		
	Rate - 2009	\$240	\$180	\$120	\$100	\$70	\$130	\$90	\$155		
	Total Professional Service Hours	5	28	96	152	152	0	0	0		
Total Project Engineering Services Estimated Fee \$										43,600.00	



**Fort Bend County Drainage District
Ditch "H" Extension**

ATTACHMENT C - Engineering and Surveying Billing Rates

3/31/2009

	Title	Abbreviation	Max. Billing Rate
	Principal	Princ	\$ 240.00
	Engineering Project Manager	PM	\$ 180.00
	Engineering Manager	EM	\$ 160.00
	Senior Engineer	Sr Eng	\$ 140.00
	Engineer	Eng	\$ 120.00
	Engineer-in-Training	EIT	\$ 100.00
	Senior Engineering Designer	Sr Des	\$ 115.00
	Engineering Designer	Des	\$ 90.00
	Engineering Technician	Tech	\$ 70.00
	Surveying Project Manager	PM	\$ 188.00
	Registered Professional Land Surveyor	RPLS	\$ 130.00
(1)	Field Crew - Conventional	Field	\$ 120.00
(2)	Field Crew - GPS	GPS	\$ 155.00
	Surveying Technician	Tech	\$ 90.00
	Administrative Support	Cler	\$ 70.00

- (1) All surveying will be based on the hourly rate for field surveying being charged by Brown & Gay Engineers, Inc. at the time work is done (currently \$120.00 per field crew hour). The hourly rate includes imputed costs for survey equipment, vehicles, materials such as stakes, flagging and iron rods and for personnel.
- (2) Should Global Positioning System (GPS) surveying be used on the project, an additional charge of \$35.00 per hour will be charged for equipment.



February 18, 2011

Mr. Dwayne C. Grigar, PE
Project Manager
Fort Bend County Drainage District
1004 Blume Road
Rosenberg, Texas 77471

Re: Professional Services Proposal for Construction Changes
Ditch "H" Channel Extension to Oyster Creek
FBC P.O. No. 58429
BGE Project No. FBC15-02

Dear Mr. Grigar:

In response to the request of Fort Bend County Drainage District, Brown & Gay Engineers, Inc. is pleased to submit this proposal for additional professional engineering services. This work includes the following tasks:

1. Provide a pre-construction survey of the fill placed on the proposed construction site during construction of the Union Pacific Railroad Bridge including the as-built location of the bridge.
2. Provide baseline construction staking and set vertical control temporary benchmark.
3. Revise construction plans and details for the UPRR Bridge as-built location.
4. Revise construction plans and details for traffic control plan changes required by the City of Sugar Land and TXDOT.
5. Revise construction plans and details for Wall C shoring requirements necessitated by the UPRR Bridge as-built location.

These services will be provided under the terms and conditions of the existing agreement for professional services to provide final design and construction phase services for the Ditch "H" Extension to Oyster Creek that was approved by Commissioners Court on July 18, 2006.

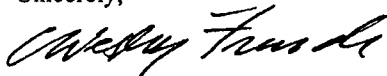
We propose to provide the scope of services described in **Attachment A** on a lump sum basis. Invoices will be mailed monthly and payable upon receipt. We estimate the fees for the above-described scope of services not to exceed \$20,000.

EXHIBIT B

Mr. Dwayne Grigar, PE
Fort Bend County Drainage District
February 18, 2011
Page 2

We look forward to our continued work on this important project with your office and the City of Sugar Land. Should you have any questions, please give me a call.

Sincerely,



C. Wesley French, P.E.
Senior Project Manager

Attachment



Project: Ditch H Extension to Oyster Creek
 Client: Fort Bend County & City of Sugar Land
 2/18/2011
 By: cwf

ATTACHMENT A - Scope of Work and Estimated Engineering Fee
 Construction Start-up Issues

Task No.	Description	Engineering Hours					Surveying Hours			Sub-Consultant	Cost	
		Prin	PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech	LS Crew			
1	Pre-construction Survey of UPRR Bridge Fill and As-built UPRR Bridge Location		1		2			2	4	8		\$ 2,200
2	Baseline Construction Staking and Set Vertical Control Benchmark		2		2			1	2	8		\$ 2,100
3	Revise Plans and Details for UPRR Bridge As-built Location		17	9	10	40						\$ 7,900
4	Traffic Control Plan Revision		8		8	10						\$ 2,900
5	Wall C Shoring Plan/ Construction Drawing Revisions		8	22		12						\$ 4,900
6												\$ -
7												\$ -
8												\$ -
9												\$ -
10												\$ -
	Subtotal Hours	0	36	31	22	62		3	6	16		
	Rate - 2009	\$240	\$180	\$120	\$100	\$70		\$130	\$90	\$155		
	Total Professional Service Hours	0	36	31	22	62		3	6	16		
		Total Project Engineering Services Estimated Fee \$										20,000.00

EXHIBIT B

EXHIBIT B

BROWN & GAY

ENGINEERS, INC.
March 28, 2011

Mr. Dwayne C. Grigar, PE
Project Manager
Fort Bend County Drainage District
1004 Blume Road
Rosenberg, Texas 77471

Re: Professional Services Proposal for Construction Inspection
Ditch "H" Channel Extension to Oyster Creek
FBC P.O. No. 58429
BGE Project No. FBC15-02

Dear Mr. Grigar:

In response to the request of Fort Bend County Drainage District, Brown & Gay Engineers, Inc. is pleased to submit this proposal for additional professional engineering services. This work includes the following tasks for the time period; April 1, 2011 through August 31, 2011:

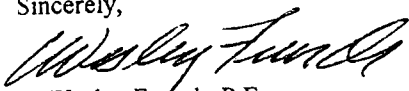
1. Provide an engineer to inspect construction progress to include the following services:
 - a. Inspect steel fabrications, formwork, and reinforcing steel for general compliance with the plans and specifications.
 - b. Document that testing reports required by the plans and specifications have been ordered.
 - c. Report out of compliance observations to the Contractor for resolution. If increased cost or time delays are required for resolution, the Owner must approve before the work proceeds.
2. Provide a daily log of construction activities observed. These reports shall be submitted on a monthly basis for the Owner's information.

These services will be provided under the terms and conditions of the existing agreement for professional services to provide final design and construction phase services for the Ditch "H" Extension to Oyster Creek that was approved by Commissioners Court on July 18, 2006.

We propose to provide the scope of services described in **Attachment A** on a time and expenses basis. Invoices will be mailed monthly and payable upon receipt. We estimate the fees for the above-described scope of services not to exceed \$42,000.

We look forward to our continued work on this important project with your office and the City of Sugar Land. Should you have any questions, please give me a call.

Sincerely,



C. Wesley French, P.E.
Senior Project Manager

ATTACHMENT A - Scope of Work and Estimated Engineering Fee
Construction Inspection

Task No.	Description	Engineering Hours				Surveying Hours			Sub-Consultant	Cost
		Prin	PM	Eng	EIT/Des	CAD/Clerk	RPLS	LS Tech		
1	Construction Inspection Services (100 days)		24	300		24				\$ 42,000
2										\$ -
3										\$ -
4										\$ -
5										\$ -
6										\$ -
7										\$ -
8										\$ -
9										\$ -
10										\$ -
	Subtotal Hours	0	24	300	0	24	0	0	0	
	Rate - 2009	\$240	\$180	\$120	\$100	\$70	\$130	\$90	\$155	
	Total Professional Service Hours	0	24	300	0	24	0	0	0	
Total Project Engineering Services Estimated Fee \$									\$	42,000.00

EXHIBIT B