

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 AIG Technical Services, LLC, (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 September 28, 2021 pursuant to SOQ 14-025, (hereinafter “Agreement”); and

WHEREAS, the parties desire to amend the Agreement to allow Contractor to provide additional Services under the Agreement.

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

1. County shall pay Contractor an additional amount not to exceed two hundred twenty-eight thousand seven hundred sixty-eight dollars and 90/100 (\$228,768.90) to perform the additional Services, as described in Contractor’s proposal dated August 18, 2022 attached hereto as Exhibit “A” and incorporated herein for all purposes.
2. The Maximum Compensation payable to Contractor for all Services rendered is hereby increased to an amount not to exceed one million thirty-eight thousand two hundred sixty-seven dollars and 68/100 (\$1,038,267.68), authorized as follows:

 \$809,498.78 under the Agreement; and

 \$228,768.90 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 an agreement executed by the parties.
4. BY ACCEPTANCE OF AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT THE COUNTY IS OPPOSED TO HUMAN TRAFFICKING AND THAT NO COUNTY FUNDS WILL BE USED IN SUPPORT OF SERVICES OR ACTIVITIES THAT VIOLATE HUMAN TRAFFICKING LAWS.

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

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts to be effective on the date signed by the final party.

FORT BEND COUNTY

AIG TECHNICAL SERVICES, LLC

KP George, County Judge



Authorized Agent – Signature

Date

Deepali Loney

Authorized Agent – Printed Name

ATTEST:

Principal

Title

Laura Richard, County Clerk

1/25/23

Date

APPROVED: 

J. Stacy Slawinski, P.E., County Engineer

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

EXHIBIT A

August 18, 2022

Mr. Kevin Mineo, P.E.
Sr. Project Manager
Binkley & Barfield, Inc.
1710 Seamist Dr., Houston TX 77008

RE: Supplemental Proposal for Professional Engineering Services
Evergreen Street Segment 2: From 100 ft West of Mustang Bayou to FM 521
Precinct 1
Fort Bend County

Dear Mr. Mineo:

AIG Technical Services, LLC (AIG Tech), is pleased to submit our supplemental proposal for Professional Services to develop Plans, Specifications and Estimates (PS&E) for the above referenced project scope revisions. This proposal is based upon our project understanding and the terms and conditions of the Fort Bend County Standard Professional Services Agreement and original contract.

PROJECT UNDERSTANDING:

Project Assignment

The Design assignment will involve preparing Plans, Specifications and Estimates (PS&E) for a single contract for the complete reconstruction and widening of Evergreen Street – Phase 2, from 100' west of the Mustang Bayou bridge crossing to the intersection with FM 521 and the at-grade crossing of the Union Pacific Railroad tracks. This section of Evergreen Street is approximately 5,730 linear feet long consisting of a two-lane asphalt pavement with roadside ditches, including two bridge crossings. This supplemental will cover the modification from 3-lane asphalt roadway cross section (two 12-ft traffic lanes with 6-ft outside shoulders) with improved roadside ditches, to 2-lane concrete road cross sections with 2-ft offsets and 6-in curbs, storm sewer system, and roadway illumination, and the addition of a 10-ft side path. The reconstruction of two new bridges requiring land acquisition to accommodate the improvements by increasing the street right-of-way from 60 feet to a uniform width of 80 feet, except at detention pond areas will remain as in original scope. This supplemental covers survey and geotechnical work for two additional detention ponds.

AIG Tech will adhere to the Fort Bend County Drainage District requirements, including providing a drainage impact analysis letter report and a practical drainage detention mitigation design will be prepared and included with the Preliminary Engineering Report.

AIG Tech will not be required to coordinate with UPRR regarding work at the FM 521 intersection; The UPRR ROW line will serve as project termination. The rest of scope items remain from original scope.

Introduction of the AIG Team

No modifications will occur in the team roles or composition from original scope as a result of this supplemental.

Management Structure

No modifications will occur in the management structure from original scope as a result of this supplemental.

SCOPE OF BASIC SERVICES:

No modifications will occur in design guidelines and outlines process from original scope as a result of this supplemental.

Preliminary Design Phase

AIG Tech will prepare the design to a 30% level of completion, based on updated topographic surveys. The 30% milestone will include a Preliminary Engineering Report (PER) documenting the analysis of up to three (3) revised alternate roadway options per new typical section and intersection preferred treatment leading to a preferred design. No modifications will occur in the analysis and recommendation process from original scope as a result of this supplemental..

Roadway

AIG Tech shall develop up to three (3) revised roadway alignment options at plan view level and recommend a preferred alternative based on geometry, utility, and environmental constraints. Roadway design shall

comply with the latest edition of the AASHTO "Geometric Design of Highways and Streets". AIG shall advance the preferred alternative, identify ROW requirements, develop a preliminary roadway profile, and construction phase traffic control plan (for preferred alternative only), in accordance with the Fort Bend County Engineering Department EDM May 2021 Draft.

As part of the 30% drawing submittal, AIG Tech shall provide preliminary typical sections, plan sheets, as well as identifying the total footprint of the proposed project.

Bridge

No modifications will occur in the bridge design guidelines from original scope as a result of this supplemental.

Utilities

The team shall research and obtain record documents for all known existing utilities within the road ROW. AIG Tech will prepare and maintain utility log through the Final Design phase. AIG Tech will establish contact with utility companies and provide plan set roadway drawings to the applicable utility companies for their use in developing any utility adjustment plans. It is understood that AIG Tech will identify major utilities and coordinate directly with utility companies; BBI will assist in facilitating utility adjustment process during the construction phase as required to verify the utilities are relocated. AIG Tech to provide utility relocation plan review once plans are finalized by the utility entities.

Metes and Bounds Right of Way Taking Mapping

Survey scope of work and processes will only deviate from original scope to account for 2 additional detention ponds. The following surveying services are included in this proposal and further described in the attached proposal from Landtech:

- Topographic Survey and Mapping for 2 detention ponds
- Parcel Plat and Metes and Bounds Mapping for Land Acquisitions 2 detention ponds

Geotechnical

The work involved as part of this supplemental will be limited to field and laboratory investigations, testing, and analysis of two additional detention ponds. Consequently, two additional borings to depths of 15 feet around the proposed pond locations will be performed to obtain additional soil and groundwater information. The intention is to use an ATV-mounted drill rig to access our boring locations.

The results from these two additional boring logs will be included into the project geotechnical report in accordance with the Fort Bend County Engineering Department EDM May 2021 draft guidelines. The geotechnical report will include a description of subsurface conditions, groundwater information, boring logs, and pavement recommendations in typical FBCED format. Boring logs will become part of the final PS&E package for the construction contractor's use.

Final Design Phase

Based on FBC concurrence of PER, AIG Tech will proceed with completing the PS&E, including for 70%, 95%, and 100% submittals to BBI. AIG Tech will address comments presented in the Preliminary Design Phase review meeting and provide responses to 70% and 95% BBI review comments. Per the Fort Bend County Engineering Department EDM May 2021 Draft, 70% and 95% submittals shall include cover sheet, typical and non-standard cross-sections, overall project layout, survey control map, drainage area map with hydraulic calculations, plan and profile sheets including storm sewer design and side path, round about layout sheets, traffic control plan, roadway illumination layouts and details, storm water pollution prevention plan, cross sections at 100' intervals, specification table of contents, and bid form with estimated unit and total costs. A digital copy (Adobe Acrobat format, PDF) at each design milestone will be submitted for BBI's review in 11"x17" sheets including the drawings, cross sections at 100-foot intervals, Specifications Table of Contents (AIG to use Harris County Specifications - TxDOT Specifications to be used as necessary depending on FBC guidance), Construction Cost Estimate (PDF and Excel format), Bid Form (PDF and Excel format), KMZ file, and Review Checklists.

In addition to the 70% requirements, the 95% submittal shall also include general notes sheet, signage and pavement marking plans, verification of earthwork quantities, with cross sections at 100-foot intervals, standard construction details, project manual, responses to 70% comments and 95% Review Checklist.

The 100% submittal shall consist of one sealed and signed set of drawings, along with a PDF submittal of the drawings, specifications, and estimate and shall be provided to BBI.

AIG Tech will provide monthly progress reports per BBI requirements.

Utilities

No modifications will occur to utility work from original scope as a result of this supplemental.

Drainage

AIG Tech will meet with and incorporate the Fort Bend County Drainage District requirements into preparation of the PS&E package per conversion from open ditch design to new storm sewer design. The drainage analysis will follow the effective Fort Bend County Interim Atlas 14 Design Criteria Manual per Fort Bend County Drainage District. Based on scoping discussions with the drainage district, it is understood that a simplified method will be conducted for the drainage model and Atlas 14 rain data will be compared to the model to acquire the necessary detention for the proposed roadway.

The project does appear to be in the 100-year, or 500-year floodplains based on the current published FEMA maps: 48157C0135L revised 04/02/2014. A FEMA submittal for the project is not included in this proposal. Providing or obtaining a “no impact letter” is not part of this proposal.

AIG Tech shall produce three (3) detention pond layout sheets; one (1) sheet per proposed detention pond.

AIG Tech shall provide Storm Water Pollution Prevention Plan and details.

Traffic

AIG Tech will prepare the construction phase traffic control plans to accommodate the existing traffic during the construction of the proposed road improvements, including roundabouts at two intersections, proposed 10-ft side path, new storm sewer design, and illumination. Based on existing conditions and scoping discussions with BBI, no traffic signal design services are included as part of this proposal.

Railroad and TxDOT Coordination

AIG Tech is not scoped to coordinate with UPRR.

Fort Bend County Support

No modifications will occur related to Fort Bend County Support from original scope as a result of this supplemental.

Additional Services

AIG Tech *will not* provide Bid and Construction phase services (review shop drawings and RFI(s)) as part of this supplemental proposal.

COMPENSATION

Except for mapping and parcel acquisition, the preliminary and final design efforts will be a lump-sum contract fee to be billed monthly based on a Schedule of Value basis and percent complete basis by work task.

A level of effort estimate is enclosed based on the scope of work described herein. The Lump-Sum Fee amount, including subconsultants, reimbursable expenses, and ROW mapping and parcel acquisition is \$ 228,768.90.

FEE SUMMARY					
	AIG TECH	TERRACON	LANDTECH	IGET	TOTAL FEE
ENGINEERING FEE - PHASE I AND II	\$ 193,084.80	\$ 6,900.00	\$ 16,349.96	\$ -	\$ 216,334.76
PROPOSED ROW SURVEY & MAPPING & PARCEL ACQUISITION			\$ 12,434.14		\$ 12,434.14
TOTAL	\$ 193,084.80	\$ 6,900.00	\$ 28,784.10	\$ -	\$ 228,768.90

SCHEDULE

AIG Tech anticipates the project will follow the following timeline schedule:

- a) Contract execution and NTP by Late-August 2022
- b) Survey to be provided by Late October 2022
- c) Final PER submittal by Mid October 2022
- d) Preliminary Parcel roll plot by November 2022
- e) 70% milestone submittal April 2023, including preliminary metes and bounds parcel mapping
- f) 95% milestone submittal July 2023
- g) Final submittal August 2023
- h) Final metes and bounds parcel mapping February 2023; Begin ROW acquisition
- i) Utility adjustment/relocation beginning June 2023
- j) Complete ROW acquisition June 2024

A detailed project design schedule has been prepared and is included as Attachment A.

ATTACHMENTS

Attachment A – AIG Technical Services, LLC's Proposal Fee

Attachment B – Landtech, Inc.'s Surveying Services Proposal

Thank you and Regard's,



Gabriel Y. Johnson

Principal

AIG Technical Service, LLC

Gabe.Johnson@AIGtechnical.com

Cell: 832.875.5923

Attachment A

AIG Technical Services, LLC's Proposal Fee

TASK DESCRIPTION		PROJECT MANAGER	QUALITY MANAGER	PROJECT ADVISOR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING SPECIALIST	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PHASE 1 - PRELIMINARY DESIGN PHASE (PER)															
PROJECT MANAGEMENT															
Project Administration (2 Month Schedule)		2		2								8	0	N/A	N/A
Coordination with the County & BBI (Bi-weekly for 2 months)		3		1	1	3							8		
Coordination with the Subconsultants (Terracon, LandTech, iGET) (Weekly or as needed)		2				4							6		
Coordination with the City of Fresno (Up to 2 Meetings)		2		1	1								4		
Coordination with TxDOT & DEC (Up to 2 Meetings)		2		1	1	2							6		
Coordination with the UPRR (Up to 1 Meeting) - NA		-1		-1									-2		
Coordination with the Franchise Utilities (Up to 3 Meetings)		1		1		1							3		
DATA COLLECTION															
Obtain Survey Data (Review additional survey)		1				1			2				4	N/A	N/A
Obtain As-builts, Drainage, Traffic, FM521 plans & Misc Details - NA													0		
Obtain FEMA Model and Drainage Reports for Mustang Bayou - NA													0		
Obtain Existing Utilities Information within ROW & Prepare Owner List - NA		2				2		2					6		
DESIGN & EXHIBITS															
Develop Revised Alignment Options (Plan View ONLY, Up-to 3 Alignments)		2	1	1	2	6		12	6				30	3	10.0
Develop Traffic Calming Devices Exhibits (Plan View ONLY, for up to 3 exhibits)		2	1	1	2	4		12	6				28	3	9.3
Develop Preliminary Profile (Revised closed system for Preferred Alternative)		2	1		2	4		8	8				25	1	25.0
Prepare Preliminary Cross Sections (Revise OpenRoads Model - Preferred Alt)		2	2		4		36		8				52	3	17.3
Develop Revised Proposed ROW Lines		1		1	4	8		8					22	1	22.0
Develop Preliminary TCP Layout (Preferred Alt)		1	1		2	4		4	8				20	2	10.0
Conduct Preliminary Drainage Analysis for Preferred Alternative													0		
Develop and/or Revise Existing H&H models for the Bridge Crossings													0	N/A	N/A
Perform H&H Analyses for Bridge Crossings in Existing and Proposed Conditions													0	N/A	N/A
Perform Floodplain Impact Analysis and Calculate Required Mitigation													0	N/A	N/A
Identify & Develop Preliminary Detention Pond Location (Up to 3 Alternatives)													0	3	0.0
Prepare Preliminary Exhibits for Waterline Relocation													0	13	0.0
Prepare Preliminary Exhibits for RR/TxDOT Coordination - NA													0	2	0.0
Prepare 30% Bridge Layouts (2 Bridges)													0	N/A	N/A
PER															
Prepare 30% Plans (Revised Typical Sections, Plan & Profile - proposed plan view only)		2	2	2	2	12		8	12				40	15	2.7
Prepare Revised Executive Summary Letter		1		1		6		4					12	N/A	N/A
Prepare Traffic Calming Device Study															
Attend a Preliminary Design Phase Meeting to Review PER		1		1									2	N/A	N/A
Address Comments		1	1			1		4					7	N/A	N/A
Final Submittal of Letter Report													0	N/A	N/A
Develop Preliminary Construction Cost Estimate		1	1		2	4		4					12	N/A	N/A
HOURS SUB-TOTALS		30	10	12	23	62	36	66	50	0	0	8	297		
CONTRACT RATE PER HOUR		\$75.00	\$80.00	\$100.00	\$72.00	\$62.00	\$56.00	\$38.00	\$54.00	\$50.00	\$42.00	\$28.00			
TOTAL LABOR COSTS		\$2,250.00	\$800.00	\$1,200.00	\$1,656.00	\$3,844.00	\$2,016.00	\$2,508.00	\$2,700.00	\$0.00	\$0.00	\$224.00	\$17,198.00		
SUBTOTAL - PHASE 1													\$17,198.00		

TASK DESCRIPTION	PROJECT MANAGER	QUALITY MANAGER	PROJECT ADVISOR	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	ENGINEER IN TRAINING	SENIOR ENGINEERING TECH	SENIOR CADD OPERATOR	CADD OPERATOR	ADMIN/ CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
PHASE II - FINAL DESIGN PHASE														
PROJECT MANAGEMENT														
Project Administration (8 Month Schedule)												0	N/A	N/A
Coordination with the County & BBI (Bi-weekly for 8 months)												0		
Coordination with the Subconsultants (Terracon, LandTech, iGET) (Weekly or as needed)												0		
Coordination with the City of Fresno (Upto 2 Meetings)												0		
Coordination with TxDOT & DEC (Upto 3 Meetings)												0		
Coordination with the UPRR (Upto 3 Meeting)												0		
Coordination with the Franchise Utilities (Upto 3 Meetings)												0		
FINAL DESIGN - CONSTRUCTION PLANS (70%, 95% & FINAL)														
Cover Sheet												0	1	0
Index of Sheets												0	1	0
General Notes - Adjusted to include DRN and ILL items	1		1	1	2		1					6	4	2
Survey Control Sheets												0	2	0
Existing Typical Sections												0	1	0
Proposed Typical Sections												0	1	0
Removal (Demolition) Plans												0	6	0
Roadway/Drainage Plan & Profile (1"=40' Scale 11"x17") Sheets) - Adjusted to include DRN and ILL items														
Evergreen Street - Adjusted to include DRN and ILL items	4	4	2	8	16	16	28	22				100	13	8
Cross Streets (3 Cross Streets)												0	3	0
Driveway Profile Table (32 Driveways)												0		0
Roadway Details (Up to 2 roundabout geometric layouts - 2 sheets)	6	6	2	10	24	24	8					80	2	40
Roadway Details (Grading layouts for up to 2 roundabouts - 2 sheets)	8	6	4	10	48	28	16					120	2	60
Typical Roadway Details & Standards	1	1		2	4	4						12	5	2
Driveway Details												0	2	0
Miscellaneous Drainage and Storm Sewer Details	1	1		2		2	8		10			24	3	8
Drainage Area Maps												0		
Detention Pond Layouts (3 ponds)	14	10	8	30	60	40		28				190	3	63
Drainage Analysis (for closed system)	8	6	6	4	16	20	40					100		
Drainage Standards	2	1		1	2	4	2					12	6	2
Culvert Layouts (2 Culverts)												0	2	0
Traffic Control Plans - Adjusted to include DRN and ILL items														
Phasing Layout with General Notes	1			1	1		1	1				5	2	3
Typical Construction Cross sections	1			1	2		1	1				6	2	3
Advanced Warning Signs Layouts												0	2	0
Phase One Layouts (1"=50' scale)	2	1	1	4	8		8	16				40	6	7
Phase Two Layouts (1"=50' scale)	2	1	1	4	8		8	16				40	6	7
TCP Standards & Details												0	15	0
Storm Water Pollution Prevention Plans (1"=50' Scale)				1	2		4	1				8	6	1
Storm Water Pollution Prevention Plan Details												0	1	0
Signing and Pavement Marking Plans (1"=50' Scale) - Adjusted to include Traffic Calming Devices and ILL	1	1		2	4		8	4				20	6	3
Pavement Marking Details	1			2	2		2	1				8	3	3
Traffic Illumination Plan (100' scale)	20	10	10	20	44	50	20	36				210	6	35
Illumination Details (Circuit diagrams, Electrical Data Summary, and 1 special detail)	4	2	2	4	10	14	4	4				40	4	10
Illumination Standards	2	1		1	2	4		2				12	16	1
Bridge Layouts (Plan & Profile at 1"=40' Scale) - 2 Bridges												0	2	0
Earthwork Table (Develop Civil 3D Model)												0	2	0
Cross Section Plans with Earthwork Tables (Develop Civil 3D Model)												0	22	0
Construction Cost Estimate (70%, 95% & Final)	1	1			2	4	4					12	N/A	N/A
Project Manual (Bid Form, Specs TOC, Special Specs)												0	N/A	N/A
HOURS SUB-TOTALS														
	80	52	37	108	257	210	159	132	10	0	0	1045		
CONTRACT RATE PER HOUR (INCLUDE AVG HOURLY RATE TIME OVERHEAD AND FF)	\$75.00	\$75.00	\$100.00	\$72.00	\$64.00	\$56.00	\$38.00	\$54.00	\$50.00	\$42.00	\$28.00			
TOTAL LABOR COSTS	\$6,000.00	\$3,900.00	\$3,700.00	\$7,776.00	\$16,448.00	\$11,760.00	\$6,042.00	\$7,128.00	\$500.00	\$0.00	\$0.00	\$63,254.00		
SUBTOTAL - PHASE II													\$63,254.00	

Prime Summary - AIG Technical Services, LLC.	
PHASE I - PRELIMINARY DESIGN PHASE (PER)	\$17,198.00
PHASE II - FINAL DESIGN PHASE	\$63,254.00
	TOTAL COSTS FOR PRIME ONLY
	\$80,452.00
	NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY
	\$0.00
	RATE MULTIPLIER + PROFIT
	2.40
	GRAND TOTAL
	\$193,084.80

Bridge Design And H&H Impact Assessment Services - IGET Services, LLC.	
Design Phase Services	\$0.00
ADDITIONAL SERVICES - H&H IMPACT ASSESSMENTS	\$0.00
	Total
	\$0.00

Survey LandTech, Inc.	
1. Topographic Surveying and Mapping (Lump Sum)	\$15,873.64
2. 1/2-2. Proposed ROW Surveying & Mapping	\$5,454.40
2.3. Proposed Acquisition Parcels (Lump Sum Per Parcel)	
Detention Parcels 2 x \$ 3527.32 per parcel	\$6,979.74
3. Reimbursable Expenses	\$476.32
	Total
	\$28,784.10

Geotechnical Services Terracon	
Subsurface Exploration, Laboratory Testing, Geotechnical Consulting and Reporting (for two additional borings). *	\$6,900.00
Traffic Control (6 days)	\$0.00
	Total
	\$6,900.00

* This cost assumes that all three boring locations will be accessible in one mobilization to the site at the time of our field program. If all three boring locations are not accessible at one time, we anticipate an additional cost of \$1,450 per mobilization to the site. If clearing of pathways is required to perform the additional borings, Terracon can provide this service with an additional cost of \$3,000 per day, not to exceed more than 2 days. We will contact you and your team for approval of additional fees if additional mobilizations or clearing of pathways are required.

Total Professional Services Budget	\$216,334.76
Proposed ROW Survey & Mapping and Parcel Acquisition	\$12,434.14

** ROW and Parcel acquisition cost for information purposes only, and is NOT Included as part of the Professional Engineering Services Budget.

Attachment B

Landtech, Inc.'s Surveying Services Proposal

August 4, 2022

Mr. Abraham Rebollar, P.E.
Project Engineer
AIG Technical
1500 S. Dairy Ashford Suite 445
Houston, Texas 77077

RE: Proposal to Provide Professional Surveying Services – Fort Bend County Pct. 1
201XX - Evergreen Segment 2 (East) from 100 Feet West of Mustang Bayou to FM 521
Detention Pond Topographic and ROW Acquisition Surveys

Dear Mr. Rebollar:

It is my pleasure to submit the following proposal for providing professional surveying services for the above referenced project. The route is along Evergreen Street from 100 feet west of Mustang Bayou to FM 521 (5,730 linear feet), and the proposed detention sites are on the east side of Mustang Bayou (1A & 1B), at the American Canal (2A & 2B), and 500 feet west of FM 521 (3).

1. Perform Topographic Surveys and prepare CAD file deliverables:
 - 1.1. Prepare Right of Entry Letters and mail them to affected property owners (approximately 6). Track responses.
 - 1.2. Perform Detention Pond Surveys. Collect Topographic Survey data at three of the five locations shown in "20123x_FBC_AIG_ORD_PALI_RA-SS.kmz" received from AIG on June 29, 2022. Client will advise surveyor as to which sites have been selected prior to beginning this task. Collect data within each of the three locations on a 50-foot grid and at all breaklines. Survey visible surface features and utilities. Perform utility research. In wooded areas, survey the tree line; individual trees will not be surveyed.
 - 1.3. Perform Property Title Abstracting for preliminary ownership determination of all involved tracts. Survey all parent tract property corners and determine the location of involved boundary lines.
 - 1.4. Locate 2 Geotechnical Borings after drilling.
2. Perform proposed ROW surveys and prepare Proposed ROW Map and parcel document deliverables. Deliverables will conform to Texas Society of Professional Surveyors Category 1B, Condition II standards and will be signed and sealed by a Texas Registered Professional Land Surveyor.
 - 2.1. Add detention parcels to the Proposed ROW Map. Add additional sheets if needed due to detention site width. Assume 6 detention parcels, including 2 new parcels and 4 parcels which will include ROW widening and detention acquisition as single combined parcels.
 - 2.2. Add detention sites to project KMZ file showing existing ROW with ownership information, proposed takings with parcel numbers, and the preliminary roadway layout.

- 2.3. Prepare parcel map and metes and bounds description for each detention parcel to be acquired for the project. Includes field staking of acquisition parcel corners.

Lump Sum Fees for the services described above are as follows (see attached spreadsheet 'Evergreen Seg 2 Detention 2022-08-04.xlsx' for breakdown of tasks, hours, and rates):

1. Topographic Surveying and Mapping	=	\$ 15,873.64
2.1./2.2. Proposed ROW Surveying & Mapping	=	\$ 5,454.40
2.3. Proposed Acquisition Parcels (Lump Sum Per Parcel)		
<u>Detention Parcels 2 x \$ 3527.32 per parcel</u>	=	<u>\$ 6,979.74</u>
Total estimated Fee Tasks 1-2	=	\$ 28,784.10

The anticipated schedule, subject to permission to enter private properties, to complete this work will be as follows:

- Task 1 will be submitted 5-7 weeks after written receipt of Notice to Proceed and notification of which three parcels are to be surveyed.
- Task 2 preliminary deliverables will be submitted 3-5 weeks after authorization and receipt of final Proposed Right of Way file and alignment from AIG Technical.

Thank you for the opportunity to submit this proposal. We look forward to working with you.

Sincerely,

Landtech, Inc.



Dennis Chalaire, R.P.L.S.
Vice President

Evergreen Seg 2 Detention 2022-08-04.docx

Attachments: Spreadsheet 'Evergreen Seg 2 Detention 2022-08-04.pdf'

DATE: 8/4/2022

Surveyor will survey three of the five shown after client has determined which parcels are needed.

	1A	26,086	3
	1B	18,243	1
	2A	31,253	1
	2B	29,470	2
	3	37,428	1

3. For purposes of this cost estimate Surveyor will assume Sites 1A, 2B, and 3 will be utilized for detention.

						COSTS TO THE COMM. - COMM. TARGET FEES TASKS 2:	\$7,180.00
						TOTAL ESTIMATED FEE TASKS 1-2:	\$28,784.10

Abraham Rebollar

From: Javed, Aazim <Aazim.Javed@terracon.com>
Sent: Wednesday, July 27, 2022 11:50 AM
To: Abraham Rebollar
Cc: Cummins, Rebecca L; Beecher, Patrick; Gabe Johnson
Subject: Re: 20123x FBC Evergreen Meeting Follow-up

Good Morning Abraham,

Based on the requested changes from our phone conversation last week, we understand that there will be 3 pond locations along Evergreen Street with maximum depths of about 6 to 8 feet. We assume that each pond will be a maximum of one acre in size.

We propose that three borings (one boring part of the original scope) to depths of 15 feet in the area of the proposed pond locations be performed to obtain additional soil and groundwater information. We plan to use an ATV-mounted drill rig to access our boring locations.

Since the cost of one pond location was already accounted for in the original scope, we understand that the supplemental cost is to only account for two new pond locations, for a total account of three ponds. To perform the borings, associated laboratory testing, and provide the recommendations as they relate to the revised scope in a supplemental letter report, we estimate an additional cost of **\$6,900**. This cost assumes that all three boring locations will be accessible in one mobilization to the site at the time of our field program. If all three boring locations are not accessible at one time, we anticipate an additional cost of **\$1,450** per mobilization to the site. If clearing of pathways is required to perform the additional borings, Terracon can provide this service with an additional cost of **\$3,000** per day, not to exceed more than 2 days. We will contact you and your team for approval of additional fees if additional mobilizations or clearing of pathways are required.

We will send a formal supplemental proposal letter once this cost is approved by the County for you to sign and return for our records.

Thank you,

Aazim Javed
Staff Engineer | Geotechnical Services



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