

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 CivilTech Engineering, 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 22, 2018, (hereinafter "Agreement") pursuant to SOQ 14-025; and

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

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

1. County shall pay Contractor an additional fifty-eight thousand three hundred forty dollars and 00/100 (\$58,340.00), for the additional scope of services as described in Contractor's proposal dated February 27, 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 five hundred twenty-six thousand one hundred seventeen dollars and 00/100 (\$526,117.00), authorized as follows:
 \$467,777.00 under the Agreement;
 \$58,340.00 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 written agreement executed by both parties.

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

FORT BEND COUNTY

CIVILTECH ENGINEERING, INC

KP George, County Judge



Darrell L. Kaderka, P.E., Vice President

Date


4/15/19

Date

ATTEST:

Laura Richard, County Clerk

APPROVED:



J. Stacy Slawinski, 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

EXHIBIT A

CivilTech Engineering, Inc.

Civil Engineering
Water Resources
Transportation
Structures
Economic Analysis
GIS

February 27, 2019

Mr. Mark Dessens, PE
Schaumburg & Polk, Inc.
11767 Katy Freeway, Suite 900
Houston, TX 77079

Re: Professional Engineering Services Proposal
Peek Road – Segment 1
Temporary Drainage Channel Design
Ft. Bend County, Precinct 3

Mr. Dessens,

We are pleased to submit the following proposal to provide Professional Engineering Services for the design of Peek Road – Segment 1 Temporary Drainage Channel in Ft. Bend County, Precinct 3.

Attached are our proposed scope of services, professional engineering services compensation, and manhour breakdown. The temporary drainage channel will be included in the Peek Road Segment 1 Bid Package and will follow that project schedule.

Please review the attached documents and let us know if you have any comments, questions, or require any additional information. We look forward to working with you and Ft. Bend County on this important project.

Respectfully,
CIVILTECH ENGINEERING, INC.



Paul M. Baxter, P.E.
Vice President

CivilTech Engineering, Inc.

Civil Engineering
Water Resources
Transportation
Structures
Economic Analysis
GIS

SCOPE OF SERVICES Peek Road Segment 1 – Temporary Drainage Channel

CivilTech Engineering, Inc., (CivilTech) as the lead Design Consultant, will be responsible for the overall project management, technical accuracy and design schedule. Mr. Paul M. Baxter, PE will serve as the Project Manager and will be County's and/or its Project Manager's primary contact through completion of the identified scope of services.

SCOPE OF WORK

Peek Road Segment 1 will be constructed as a four-lane concrete roadway with a divided median and underground storm sewer from the Grand Parkway (SH 99), north to Beechnut Road; a length of approximately 2,650 feet in northern Ft. Bend County, Precinct 3. The proposed Peek Road Segment 1 project is within a future private development, and the proposed storm sewer systems will outfall at a location that will be a future detention pond. The detention pond is a portion of the development's overall mitigation system. The mitigation system is planned to outfall to an existing detention pond along Beechnut Road in MUD 123. A temporary drainage channel will be designed and constructed to provide an outfall from the Peek Road Segment 1 storm sewer systems to the existing pond along Beechnut Road. The proposed temporary channel will be approximately 4,800 ft in length, will be sized to provide interim mitigation for the Peek Road Segment 1 improvements, and a proposed outfall into the detention pond along Beechnut Road will be constructed. The scope for the design of the temporary drainage channel will include:

- Design channel alignment along existing utility easement and property boundary
- Size channel for runoff conveyance and required interim detention volume
- Construct temporary drainage culvert crossing the existing utility easement
- Construct the ultimate outfall into existing detention pond along Beechnut Road (operated by MUD 123)
- Prepare construction plans for the temporary channel to be included in Peek Road Segment 1 Bid Package.

A Category 6, Condition II Topographic field survey will be conducted to support the design of the temporary channel and drainage structures. The topographic survey will provide sufficient details of existing features to support the design and include quality Level B SUE to locate a large diameter waterline and gas pipeline. All necessary rights of entry (ROE) will be obtained from the private landowners using request letters that are approved by the County and/or its Project Manager.

Category 1A, Condition II right-of-way mapping will be provided for a temporary easement for the construction and maintenance of the temporary drainage channel through the private development property. A map and meets and bounds descriptions for the easements will be prepared.

BASIC PROFESSIONAL SERVICES

The Engineer shall render the following professional services in connection with the Project:

I. DESIGN SERVICES

All Design Services shall be paid for in a Single Lump Sum. Upon receiving written authorization to proceed with the Preliminary Design Services, the Design Consultant shall:

- a. Prepare a preliminary alignment of the temporary drainage channel
- b. Prepare a preliminary design of the temporary drainage channel, identifying the required easement.
- c. Prepare final designs, drawings and specifications for the temporary drainage channel to be included in the roadway bid package. Drawings shall be submitted for review at the following Milestones:
 - 70% Milestone Submittal
 - 95% Milestone Submittal
 - 100% Milestone Submittal

SURVEYING SERVICES

I. LAND SURVEYING SERVICES

The Land Surveying Services will the necessary rights of entry (ROE) from the private landowners using request letters that are approved by the County and/or its Project Manager.

A. Topographic Survey

Obtain pertinent site data for the proposed temporary drainage channel in accordance with the standards for a Category 6 (Condition II) Topographic Survey as per the current Texas Society of Professional Surveyors Manual of Practice and prepare a survey base drawing in a format suitable to the engineer for design purposes. The project area is marked on the attached exhibit and are defined as:

- A strip along the proposed alignment 200 feet in width and approximately 4,800 feet in length from the proposed storm sewer outfall at the proposed Peek Road route, running along the south side of the existing utility easement, turning north to

cross the utility easement, and running north up the east side of the property to the western end of an existing drainage pond on the south side of Beechnut Road.

- The upstream (western) end of the drainage pond on the south side of Beechnut Road to a point approximately 100 ft downstream from the outfall. The topographic survey deliverable will be provided in a digital CAD file (plan view only) at a scale suitable to the engineer for design purposes and will be limited to the following:
 - i. Locate visible improvements within the project area described above, including overhead conductor heights and locations where they cross the proposed alignment and existing outfall and pipes the top of bank, flowline, and surrounding natural ground at the upstream (western) end of the drainage pond.
 - ii. Locate trees over 6 inches diameter and the perimeter of existing heavily brushed areas
 - iii. Natural ground elevations within the strip will be surveyed on an approximate 100' grid
 - iv. Contours will be shown at 1-foot intervals.
 - v. Coordinate with state One-Call resources to determine the existence and location of existing subsurface utilities within the project limits. Survey utility markings and depict these findings in the Topographic Survey.

B. Designation / Location of Pipelines

Perform Quality Level-B Utility Designation to determine the exact depth and location of a large diameter water pipeline and a Southcross gas pipeline at two critical design locations:

- Where the proposed temporary drainage channel crosses these pipelines
- Where the proposed Peek Road route crosses these pipelines. Previous attempts to probe the gas pipeline have confirmed that its depth is greater than 9 feet in some places within the survey limits. Based on this it is recommended to the use "Dual-Spar" utility designating equipment which can accurately trace and locate deep pipelines. The location data will be incorporated into our topographic survey outlined above.

C. Easement Exhibit and Description for Drainage Channel

Prepare an exhibit and description for acquisition of an easement along the proposed temporary drainage channel. Exhibit and description will be certified by a Texas Registered Professional Land Surveyor.

Compensation for Professional Services
Project Name: Peek Road - Segment 1
Project Limits: Temporary Drainage Channel

1	Preliminary Design Services	
2	Final Design Services	\$46,700.00
3	Bid & Construction Phase Services	
4	Survey Services	\$11,640.00
5	Geotechnical Investigations	
6	Drainage Impact & Mitigation Analysis	
7	Traffic Study	
Subtotal Basic Services (1-7):		\$58,340.00
8	*Optional Additional Services including, but not limited to	
Subtotal Optional Additional Services(8):		\$0.00
TOTAL SERVICES (BASIC & OPTIONAL ADDITIONAL)		\$58,340.00

Ft. Bend County - Precinct 3
 Peek Road - Segment 1
 Temporary Drainage Channel

CiviTech Engineering, Inc.
 11821 Tejga Road
 Cypress, Texas

PEEK ROAD - SEGMENT 1: TEMPORARY DRAINAGE CHANNEL: MANHOUR & FEE ESTIMATE

TASK NO.	TASK DESCRIPTION	TOTAL MANHOURS PER WORK TASK BY STAFF CLASSIFICATION								TOTAL MHS PER WORK TASK	ESTIMATED PLAN SHEET REQUIREMENTS	MANHOUR PER SHET	TOTAL COSTS PER WORK TASK	
		1	2	3	4	5	6	7	8					
		SENIOR PROJ MGR.	SENIOR PROJ ENGR.	PROJ ENGR.	ASST ENGR.	SR DESIGN TECH.	CADD OPERATOR	ADMIN	CLERICAL		QNTY	SCALE	HR/UNIT	
		\$250.00	\$230.00	\$150.00	\$130.00	\$150.00	\$75.00	\$90.00	\$75.00					
PLAN PRODUCTION														
1	CHANNEL PROJECT LAYOUT SHEET		2	4	4		8			18	1	1"=100'	18	\$ 2,220.00
2	CHANNEL PLAN & PROFILE SHEETS		10	24	42		80			156	6	1"=50/1"=5'	26	\$ 17,600.00
3	STORM WATER POLLUTION PREVENTION PLAN SHEETS		2	2	4		24			32	2	1"=40'	16	\$ 3,100.00
4	DRAINAGE DETAILS		2	4	10		16			32	2	N/A	16	\$ 3,600.00
5	CROSS SECTIONS		8	10	24		56			98	6	1"=20/1"=2'	16	\$ 10,760.00
	PLAN PRODUCTION - MANHOURS		24	44	84		184			338	17			\$ 37,280.00
PROJECT MGMT & DESIGN TASKS														
6	CHANNEL & CULVERT DESIGN	4	6	18	32					60				\$ 9,420.00
	SUBTOTAL PROJECT MGMT & DESIGN TASKS	4	6	18	32					60				\$ 9,420.00
SUBTOTAL PROJECT MGMT & DESIGN TASKS											\$	9,420.00		
TOTAL FINAL DESIGN PHASE											\$	46,700.00		