

later than December 31, 2026. Contractor shall complete such tasks described in the Scope of Services, within this time or within such additional time as may be extended by County.

4. **Compensation and Payment Terms.**

- (a) Contractor's fees for the Services shall be calculated at the rate(s) set forth in Exhibit "A" attached hereto. The Maximum Compensation to Contractor for the Services performed under this Agreement is One Million, Sixty-Five Thousand, Three Hundred Sixty-Six Dollars and 47/100 (\$1,065,366.47). In no event shall the amount paid by County to Contractor under this Agreement exceed said Maximum Compensation without an approved change order.
- (b) Contractor understands and agrees that the Maximum Compensation stated is an all-inclusive amount and no additional fee, cost or reimbursed expense shall be added whatsoever to the fees stated in the attached Exhibit "A."
- (c) County will pay Contractor based on the following procedures: Upon completion of the tasks identified in the Scope of Services, Contractor shall submit to County staff person designated by the County Engineer, one (1) electronic (pdf) copy of the invoice showing the amounts due for services performed in a form acceptable to County. County shall review such invoices and approve them within 30 calendar days with such modifications as are consistent with this Agreement and forward same to the Auditor for processing. County shall pay each such approved invoice within thirty (30) calendar days. County reserves the right to withhold payment pending verification of satisfactory work performed.

5. **Limit of Appropriation.** Contractor understands and agrees that the Maximum Compensation for the performance of the Services within the Scope of Services described in Section 2 above is One Million, Sixty-Five Thousand, Three Hundred Sixty-Six Dollars and 47/100 (\$1,065,366.47). In no event shall the amount paid by County under this Agreement exceed the Maximum Compensation without a County approved change order. Contractor clearly understands and agrees, such understanding and agreement being of the absolute essence of this Agreement, that County shall have available the total maximum sum of One Million, Sixty-Five Thousand, Three Hundred Sixty-Six Dollars and 47/100 (\$1,065,366.47) specifically allocated to fully discharge any and all liabilities County may incur under this Agreement. Contractor does further understand and agree, said understanding and agreement also being of the absolute essence of this Agreement, that the total Maximum Compensation that Contractor may become entitled to and the total maximum sum that County may become liable to pay to Contractor under this Agreement shall not under any conditions, circumstances, or interpretations thereof exceed One Million, Sixty-Five Thousand, Three Hundred Sixty-Six Dollars and 47/100 (\$1,065,366.47).

6. **Non-appropriation.** Contractor understands and agrees that in the event no funds or insufficient funds are appropriated by the County under this Agreement, County shall immediately notify Contractor in writing of such occurrence and the Agreement shall thereafter terminate and be null and void on the last day of the fiscal period for which appropriations were received or made without penalty, liability or expense to the County. In no event shall said termination of this Agreement or County's failure to appropriate said funds be deemed a breach or default of this Agreement or create a debt by County in any amount(s) in excess of those previously funded.
7. **Taxes.** County is a body corporate and politic under the laws of the state of Texas and as such, is exempt from sales and use taxes. County shall furnish evidence of its tax-exempt status upon written request by Contractor.
8. **Insurance.** Prior to commencement of the Services, Contractor shall furnish County with properly executed certificates of insurance which shall evidence all insurance required and provide that such insurance shall not be canceled, except on 30 days' prior written notice to County. Contractor shall provide certified copies of insurance endorsements and/or policies if requested by County. Contractor shall maintain such insurance coverage from the time Services commence until Services are completed and provide replacement certificates, policies and/or endorsements for any such insurance expiring prior to completion of Services. Contractor shall obtain such insurance written on an Occurrence form from such companies having Best's rating of A/VII or better, licensed or approved to transact business in the State of Texas, and shall obtain such insurance of the following types and minimum limits:
 - (a) Workers Compensation in accordance with the laws of the State of Texas. Substitutes to genuine Workers' Compensation Insurance will not be allowed.
 - (b) Employers' Liability insurance with limits of not less than \$1,000,000 per injury by accident, \$1,000,000 per injury by disease, and \$1,000,000 per bodily injury by disease.
 - (c) Commercial general liability insurance with a limit of not less than \$1,000,000 each occurrence and \$2,000,000 in the annual aggregate. Policy shall cover liability for bodily injury, personal injury, and property damage and products/completed operations arising out of the business operations of the policyholder.
 - (d) Business Automobile Liability coverage applying to owned, non-owned and hired automobiles with limits not less than \$1,000,000 each occurrence combined single limit for Bodily Injury and Property Damage combined.
 - (e) Professional Liability insurance with limits not less than \$1,000,000.

County shall be named as additional insured to all required coverage except for Workers' Compensation and Professional Liability (if required). All Liability policies written on behalf of Contractor shall contain a waiver of subrogation in favor of County.

If required coverage is written on a claims-made basis, Contractor warrants that any retroactive date applicable to coverage under the policy precedes the effective date of the Contract and that continuous coverage will be maintained or an extended discovery period will be exercised for a period of 2 years beginning from the time the work under this Contract is completed.

Contractor shall not commence any portion of the work under this Contract until it has obtained the insurance required herein and certificates of such insurance have been filed with and approved by County.

No cancellation of or changes to the certificates, or the policies, may be made without thirty (30) days prior, written notification to County.

Approval of the insurance by County shall not relieve or decrease the liability of the Contractor.

9. **Indemnity.** TO THE FULLEST EXTENT PROVIDED BY APPLICABLE LAW, CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS COUNTY, ITS OFFICIALS, OFFICERS, AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, LOSSES, DAMAGES, CAUSES OF ACTION, SUITS, LIABILITY, AND COSTS, INCLUDING THE REIMBURSEMENT OF REASONABLE ATTORNEY FEES, ARISING OUT OF OR RESULTING FROM AN ACT OF NEGLIGENCE, INTENTIONAL TORT, INTELLECTUAL PROPERTY INFRINGEMENT, OR FAILURE TO PAY A SUBCONTRACTOR OR SUPPLIER COMMITTED BY CONTRACTOR OR CONTRACTOR'S AGENTS, EMPLOYEES, OR ANOTHER ENTITY OVER WHICH CONTRACTOR EXERCISES CONTROL. CONTRACTOR SHALL FURTHER PROCURE AND MAINTAIN GENERAL LIABILITY INSURANCE WITH COVERAGE AS PROVIDED IN SECTION 8 OF THIS AGREEMENT AND SHALL FURNISH A CERTIFICATE OF INSURANCE FOR THE SAME SHOWING FORT BEND COUNTY, TEXAS AS AN ADDITIONAL INSURED.
10. **Public Information Act.** Contractor expressly acknowledges and agrees that County is a public entity and as such, is subject to the provisions of the Texas Public Information Act under Chapter 552 of the Texas Government Code. In no event shall County be liable to Contractor for release of information pursuant to Chapter 552 of the Texas Government Code or any other provision of law. Except to the extent required by law or as directed by the Texas Attorney General, County agrees to maintain the confidentiality of information provided by Contractor expressly marked as proprietary or confidential. County shall not be liable to Contractor for any disclosure of any proprietary or confidential information if such information is disclosed under Texas law or at the direction of the Texas Attorney General. Contractor further acknowledges and agrees that the terms and conditions of this Agreement are not proprietary or confidential information.
11. **Compliance with Laws.** Contractor shall comply with all federal, state, and local laws, statutes, ordinances, rules, regulations, and the decrees of any courts or administrative bodies or tribunals in any matter affecting the performance of this Agreement, including,

without limitation, Worker's Compensation laws, minimum and maximum salary and wage statutes and regulations, licensing laws and regulations. Contractor in providing all services hereunder, further agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.

12. **Independent Contractor.** In the performance of work or services hereunder, Contractor shall be deemed an independent Contractor, and any of its agents, employees, officers, or volunteers performing work required hereunder shall be deemed solely as employees of Contractor. Contractor and its agents, employees, officers, or volunteers shall not, by performing work pursuant to this Agreement, be deemed to be employees, agents, or servants of County and shall not be entitled to any of the privileges or benefits of County employment.
13. **Use of Customer Name.** Contractor may use County's name without County's prior written consent only in Contractor's customer lists. Any other use of County's name by Contractor must have the prior written consent of County.
14. **County/County Data.** Nothing in this Agreement shall be construed to waive the requirements of Section 205.009 of the Texas Local Government Code.
15. **Personnel.** Contractor represents that it presently has, or is able to obtain adequate qualified personnel in its employment for the timely performance of the Services required under this Agreement and that Contractor shall furnish and maintain, at its own expense, adequate and sufficient personnel, in the opinion of County, to perform the Services when and as required and without delays.

All employees of Contractor shall have such knowledge and experience as will enable them to perform the duties assigned to them. Any employee of Contractor or agent of Contractor who, in County's opinion, is incompetent or by his conduct become detrimental to providing Services pursuant to this Agreement, shall, upon request of County, immediately be removed from association with the Services required under this Agreement.

When performing Services on-site at County's facilities, Contractor shall comply with, and will require that all Contractor's Personnel comply with, all applicable rules, regulations and known policies of County that are communicated to Contractor in writing, including security procedures concerning systems and data and remote access thereto, building security procedures, including the restriction of access by County to certain areas of its premises or systems for security reasons, and general health and safety practices and procedures.

16. **Confidential and Proprietary Information.** Contractor acknowledges that it and its employees or agents may, in the course of performing their responsibilities under this Agreement, be exposed to or acquire information that is confidential to County. Any and

all information of any form obtained by Contractor or its employees or agents from County in the performance of this Agreement shall be deemed to be confidential information of County ("Confidential Information"). Any reports or other documents or items (including software) that result from the use of the Confidential Information by Contractor shall be treated with respect to confidentiality in the same manner as the Confidential Information. Confidential Information shall be deemed not to include information that (a) is or becomes (other than by disclosure by Contractor) publicly known or is contained in a publicly available document; (b) is rightfully in Contractor's possession without the obligation of nondisclosure prior to the time of its disclosure under this Agreement; or (c) is independently developed by employees or agents of Contractor who can be shown to have had no access to the Confidential Information.

Contractor agrees to hold Confidential Information in strict confidence, using at least the same degree of care that Contractor uses in maintaining the confidentiality of its own confidential information, and not to copy, reproduce, sell, assign, license, market, transfer or otherwise dispose of, give, or disclose Confidential Information to third parties or use Confidential Information for any purposes whatsoever other than the provision of Services to County hereunder, and to advise each of its employees and agents of their obligations to keep Confidential Information confidential. Contractor shall use its best efforts to assist County in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limitation of the foregoing, Contractor shall advise County immediately in the event Contractor learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Agreement and Contractor will at its expense cooperate with County in seeking injunctive or other equitable relief in the name of County or Contractor against any such person. Contractor agrees that, except as directed by County, Contractor will not at any time during or after the term of this Agreement disclose, directly or indirectly, any Confidential Information to any person, and that upon termination of this Agreement or at County's request, Contractor will promptly turn over to County all documents, papers, and other matter in Contractor's possession which embody Confidential Information.

Contractor acknowledges that a breach of this Section, including disclosure of any Confidential Information, or disclosure of other information that, at law or in equity, ought to remain confidential, will give rise to irreparable injury to County that is inadequately compensable in damages. Accordingly, County may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies that may be available. Contractor acknowledges and agrees that the covenants contained herein are necessary for the protection of the legitimate business interest of County and are reasonable in scope and content.

Contractor in providing all services hereunder agrees to abide by the provisions of any applicable Federal or State Data Privacy Act.

17. **Ownership and Reuse of Documents.** All documents, data, reports, research, graphic presentation materials, etc., developed by Contractor as a part of its work under this Agreement, shall become the property of County upon completion or termination of this Agreement. Contractor shall promptly furnish all such data and material to County on request.
18. **Inspection of Books and Records.** Contractor shall permit County, or any duly authorized agent of County, to inspect and examine the books and records of Contractor for the purpose of verifying the amount of work performed under the Scope of Services. County's right to inspect such books and records shall survive the termination of this Agreement for a period of four years. Notwithstanding the foregoing, Contractor shall bear no liability or responsibility for deliverables that have been modified post-delivery or used for a purpose other than that for which they were prepared under this Agreement.
19. **Termination.** County may terminate this Agreement at any time, with or without cause, upon thirty (30) days written notice to Contractor. Upon termination of this Agreement by County, Contractor shall be paid in accordance with Section 4, above, for those services which were provided under this Agreement prior to its termination and which have not been previously invoiced to County. Contractor's final invoice for said services will be presented to and paid by County in the same manner set forth in Section 4 above. No fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to Contractor by County.
20. **Force Majeure.** Notwithstanding anything to the contrary contained herein, neither Party shall be liable to the other for any delay or inability to carry out its obligations under this Agreement if such delay or inability is the result of a Force Majeure Event. Within a reasonable time after the occurrence of such event, the Party whose obligations are affected (the "Affected Party") thereby shall notify the other in writing stating the nature of the event and the anticipated duration. The Affected Party's obligations under this Agreement shall be suspended during the continuance of any delay or inability caused by the event, but for no longer period. The Affected Party shall further endeavor to remove or overcome such delay or inability as soon as is reasonably possible.

For purposes of this Agreement, a Force Majeure Event includes, but is not limited to: strikes or other labor disputes, severe weather disruptions, natural disasters, fire or other acts of God; riots, war, or other emergencies; failure of any governmental agency to act in a timely manner; the discovery of any hazardous substance or differing and unforeseeable site conditions; and any other incapacities of any Party, similar to those enumerated, which are not within the control of the Party claiming such inability, which such Party could not have avoided by the reasonable exercise of due diligence and care.
21. **Assignment.** Contractor may not assign this Agreement to another party without the prior written consent of County.

22. **Successors and Assigns Bound.** County and Contractor each bind themselves and their successors and assigns to the other Party and to the successors and assigns of such other Party, with respect to all covenants of this Agreement.
23. **Publicity.** Contact with citizens of Fort Bend County, media outlets, or other governmental agencies shall be the sole responsibility of County. Under no circumstances, whatsoever, shall Contractor release any material or information developed or received during the performance of Services hereunder unless Contractor obtains the express written approval of County or is required to do so by law.
24. **Notice.** Any and all notices required or permitted under this Agreement shall be in writing and shall be mailed by certified mail, return receipt requested, or personally delivered to the following addresses:

If to County: Fort Bend County Engineering
Attn: County Engineer
301 Jackson Street, 4th Floor
Richmond, Texas 77469

And Fort Bend County, Texas
Attention: County Judge
401 Jackson Street, 1st Floor
Richmond, Texas 77469

If to Contractor: infraTECH Engineers & Innovators, LLC
11111 Wilcrest Green Drive
Suite 410
Houston, Texas 77042

25. **Performance Representation.** Contractor represents to County that Contractor has the skill and knowledge ordinarily possessed by well-informed members of its trade or profession ("Professionals") practicing in the greater Houston metropolitan area. Contractor shall provide the Services to County with the same professional skill and care ordinarily provided by such Professionals under the same or similar circumstances and professional license and as expeditiously as is prudent considering the ordinary professional skill and care of a competent Professional.
26. **Entire Agreement and Modification.** This Agreement constitutes the entire Agreement between the Parties and supersedes all previous agreements, written or oral, pertaining to the subject matter of this Agreement. Any amendment to this Agreement must be in writing and signed by each Party to come into full force and effect.

27. **Understanding Fair Construction.** By execution of this Agreement, the Parties acknowledge that they have read and understood each provision, term, and obligation contained herein. This Agreement, although drawn by one party, shall be construed fairly and reasonably and not more strictly against the drafting Party than the non-drafting Party.
28. **Severability.** In case any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision hereof and this Agreement shall be construed as if such invalid, illegal or unenforceable provision had never been contained herein.
29. **No Waiver of Immunity.** Neither the execution of this Agreement nor any other conduct of either party relating to this Agreement shall be considered a waiver or surrender by County of its governmental powers or immunity under the Texas Constitution or the laws of the state of Texas.
30. **Applicable Law and Venue.** This Agreement shall be construed according to the laws of the state of Texas. Venue for any claim arising out of or relating to the subject matter of this Agreement shall lie in a court of competent jurisdiction of Fort Bend County, Texas.
31. **Certain State Law Requirements for Contracts** The contents of this Section are required by Texas law and are included by County regardless of content For purposes of Sections 2252.152, 2271.002, and 2274.002, Texas Government Code, as amended, Contractor hereby verifies that Contractor and any parent company, wholly owned subsidiary, majority-owned subsidiary, and affiliate:
- (a) Unless affirmatively declared by the United States government to be excluded from its federal sanctions regime relating to Sudan or Iran or any federal sanctions regime relating to a foreign terrorist organization, is not identified on a list prepared and maintained by the Texas Comptroller of Public Accounts under Section 806.051, 807.051, or 2252.153 of the Texas Government Code.
 - (b) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott Israel and is authorized to agree in such contracts not to boycott Israel during the term of such contracts. "Boycott Israel" has the meaning provided in § 808.001 of the Texas Government Code.
 - (c) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not boycott energy companies and is authorized to agree in such contracts not to boycott energy companies during the term of such contracts. "Boycott energy company" has the meaning provided in § 809.001 of the Texas Government Code.

- (d) If employing ten (10) or more full-time employees and this Agreement has a value of \$100,000.00 or more, Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and is authorized to agree in such contracts not to discriminate against a firearm entity or firearm trade association during the term of such contracts. "Discriminate against a firearm entity or firearm trade association" has the meaning provided in § 2274.001(3) of the Texas Government Code. "Firearm entity" and "firearm trade association" have the meanings provided in § 2274.001(6) and (7) of the Texas Government Code.
32. **Human Trafficking.** BY ACCEPTANCE OF THIS AGREEMENT, CONTRACTOR ACKNOWLEDGES THAT FORT BEND 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.
33. **Captions.** The section captions used in this Agreement are for convenience of reference only and do not affect the interpretation or construction of the Agreement.
34. **Electronic and Digital Signatures.** The Parties to this Agreement agree that any electronic and/or digital signatures of the Parties included in this Agreement are intended to authenticate this writing and shall have the same force and effect as the use of manual signatures.
35. **Certification.** By his or her signature below, each signatory individual certifies that he or she is the properly authorized person or officer of the applicable Party hereto and has the requisite authority necessary to execute this Agreement on behalf of such Party, and each Party hereby certifies to the other that it has obtained the appropriate approvals or authorizations from its governing body as required by law.

{Execution Page Follows}

IN WITNESS WHEREOF, and intending to be legally bound, County and Contractor hereto have executed this Agreement to be effective on the date signed by the last Party hereto.

FORT BEND COUNTY, TEXAS

KP George, County Judge

Date

ATTEST:

Laura Richard, County Clerk

infraTECH Engineers & Innovators, LLC



Authorized Agent – Signature

Anwar Zahid

Authorized Agent – Printed Name

President and CEO

Title

1/22/2024

Date

APPROVED:



J. Stacy Slawinski, County Engineer

AUDITOR'S CERTIFICATE

I hereby certify that funds in the amount of \$_____ are available to pay the obligation of Fort Bend County, Texas within the foregoing Agreement.

Robert Ed Sturdivant, County Auditor

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EXHIBIT A

(Follows Behind)

Prime Provider: Infratech Engineers & Innovators, LLC

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
FEASIBILITY STUDIES - FC 102 (110)												
ROUTE & DESIGN STUDIES												
DATA COLLECTION, REVIEW AS-BUILT PLANS	2	8	8		4	8				30	N/A	N/A
FIELD RECONNAISSANCE, PHOTOS, FILED NOTES, VERIFICATIONS (ROADWAY,TCP, SPMS, WALL, BRIDGE,SWPPP TEAMS)	2	2	2		2	4	4			16	N/A	N/A
PRELIMINARY COST ESTIMATE	1	1	2	1	2	4				11	N/A	N/A
PREPARE / ATTEND DESIGN CONCEPT CONFERENCE (DCC)	2	2			2					6	N/A	N/A
IDENTIFY DESIGN EXCEPTIONS AND WAIVERS					2	2				4	N/A	N/A
COORDINATION WITH GEOTECHNCIAL CONSULTANT / REVIEW OF GEOTECHNICAL REPORT	2	12	16		8	4				42	N/A	N/A
PREPARE SOIL BORING LOG			2			4		8		14	4	3.5
HOURS SUB-TOTALS	9	25	30	1	20	26	4	8	0	123	4	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$2,627.91	\$7,299.75	\$5,742.60	\$265.44	\$4,446.20	\$4,333.16	\$544.16	\$870.64	\$0.00	\$26,129.86		
SUBTOTAL - FC 102 (110)								\$1.00		\$26,129.86		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
SOCIA/ECON/ENVIRON STUDIES - FC 120 (120)												
SOCIAL, ECONOMIC AND ENVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT												
EPIC SHEET/ COORDINATION WITH TxDOT	2				4		8			14	1	14
HOURS SUB-TOTALS	2	0	0	0	4	0	8	0	0	14	1	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$583.98	\$0.00	\$0.00	\$0.00	\$889.24	\$0.00	\$1,088.32	\$0.00	\$0.00	\$2,561.54		
SUBTOTAL - FC 120 (120)										\$2,561.54		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
RIGHT OF WAY DATA - FC 130 (130)												
RIGHT OF WAY DATA												
REVIEW EXISTING UTILITES	1		2		2	4				9	N/A	N/A
HOURS SUB-TOTALS	1	0	2	0	2	4	0	0	0	9	N/A	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$291.99	\$0.00	\$382.84	\$0.00	\$444.62	\$666.64	\$0.00	\$0.00	\$0.00	\$1,786.09		
SUBTOTAL - FC 130 (130)										\$1,786.09		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
MANAGING CONTRACTED/DONATED PE - FC 145 (145, 164)												
PROJECT MANAGEMENT AND ADMINISTRATION												
PROJECT MANAGEMENT(Contracts work, internal meetings, etc)	40	8			16	8				72	N/A	N/A
PROJECT ADMINISTRATION (INVOICES, PROGRESS REPORTS, CORRESPONDENCE)	36									36	N/A	N/A
PROGRESS/COORDINATION MEETINGS WITH FBC, TXDOT INCLUDES MILESTONE REVIEW AND RESOLUTION MEETINGS	24	24			24	8				80	N/A	N/A
COORDINATION WITH PMC, SUBCONSULTANT AND OTHER SEGMENT CONSULTANTS	24	8			12	8				52		
PROJECT SCHEDULE AND UPDATES	4									4	N/A	N/A
HOURS SUB-TOTALS	128	40	0	0	52	24	0	0	0	244	0	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$37,374.72	\$11,679.60	\$0.00	\$0.00	\$11,560.12	\$3,999.84	\$0.00	\$0.00	\$0.00	\$64,614.28		
SUBTOTAL - FC 145 (145, 164)										\$64,614.28		

Prime Provider: Infratech Engineers & Innovators, LLC

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (150)												
DESIGN SURVEYS AND CONSTRUCTION SURVEYS												
REVIEW SURVEY INFORMATION (CAD FILES, DTM), EXISTING SURVEY CONTROL SHEETS	1				2	8	8			19	N/A	N/A
HOURS SUB-TOTALS	1	0	0	0	2	8	8	0	0	19	N/A	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$291.99	\$0.00	\$0.00	\$0.00	\$444.62	\$1,333.28	\$1,088.32	\$0.00	\$0.00	\$3,158.21		
SUBTOTAL - FC 120 (120)										\$3,158.21		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (160)												
ROADWAY DESIGN CONTROLS												
ROADWAY DESIGN:												
FINALIZE DESIGN ELEMENTS												
MAINLANES ALIGNMENTS (H&V)						4	4			8		N/A
PREPARE ROADWAY LAYOUT (BASE FILES)	1			2	2	8	16			29	N/A	N/A
PLAN DEVELOPMENT												
TITLE SHEET	1				1	2	8			12	1	12
INDEX	1	0		0	4	6	8	0		19	3	6
PROJECT LAYOUT	1				2	4	8			15	1	15
EXISTING TYPICAL SECTIONS				1	2	4	8			15	1	15
PROPOSED TYPICAL SECTIONS	2			2	6	12	16			38	2	19
HORIZONTAL ALIGNMENT DATA SHEETS						4				4	1	4
SUPERELEVATION DATA SHEETS										0	1	0
REMOVAL SHEET				1	3	9	18	6		37	3	12
SB SH 99 PLAN AND PROFILE SHEETS (SCALE: H 1"=100' V 1"=10')	3			6	12	24	36	6		87	4	22
RAMP GORE DETAILS (2 TOTAL)	1			1	2	8	16			28	1	28
MISC ROADWAY DETAILS	1			2	4	8	16			31	1	31
IDENTIFY AND REVIEW TxDOT STANDARD SHEETS					2			8		10	26	0.4
DESIGN CROSS SECTIONS												
3D DESIGN MODEL				4	12	60	24			100	N/A	N/A
DESIGN CROSS SECTION SHEETS (@ 100' INTERVALS - 2 PER SHEET)				4	8	16	40	0		68	11	6
COMPUTE AND TABULATE ROADWAY & PAVEMENT QUANTITIES (60%, 90%, 95% and Final)	2			4	8	24	8			46	1	
COMPUTE AND TABULATE EARTHWORK QUANTITIES (60%, 90%, 95% and Final)	1			2	4	16	4			27	1	
QA/QC (30%, 60%,90%,95% AND FINAL)	16			24						40	N/A	
HOURS SUB-TOTALS	30	0	0	53	72	209	230	20	0	614	58	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$8,759.70	\$0.00	\$0.00	\$14,068.32	\$16,006.32	\$34,831.94	\$31,289.20	\$2,176.60	\$0.00	\$107,132.08		
SUBTOTAL - FC 160 (160)										\$107,132.08		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (161)												
DRAINAGE												
HYDROLOGIC STUDIES												
REVIEW OF DRAINAGE REPORT PREPARED BY OTHERS				8		4				12	N/A	N/A
STORM DRAIN & DITCH DESIGN												
DELINEATE DRAINAGE AREAS				2		4				6	N/A	N/A
DETERMINE HYDROLOGIC PARAMETERS				2		4				6	N/A	N/A
CALCULATE DISCHARGES				2		8				10	N/A	N/A
DETAILED DRAINAGE SYSTEM DESIGN/CALCULATIONS				4		16				20	N/A	N/A
PLANS, SPECIFICATIONS AND ESTIMATES (PS&E)												
DRAINAGE AREA MAPS				1		4	8			13	3	4
RUNOFF COMPUTATIONS				2		8				10	1	10
INLET COMPUTATIONS				2		16	8			26	1	N/A
STORM SEWER COMPUTATIONS				2		16	8			26	1	N/A
MAINLANE DRAINAGE PLAN & PROFILES (US 75)				2		24	16			42	3	14
DRAINAGE LATERALS	1			2		8	8			19	1	19
MISCELLANEOUS DRAINAGE DETAILS				4		16	8			28	1	28
TEMPORARY DRAINAGE FACILITIES (PROVIDE DETAILS FOR TCP SHEETS)				4		8				12	N/A	N/A
SUMMARY OF DRAINAGE QUANTITIES	1			4		8	16			29	6	N/A
QA/QC SUBMITTALS (30%, 60%, 90%, 95%, 100%)	8			24						32	N/A	N/A
IDENTIFY AND ASSEMBLE APPLICABLE STANDARDS				4			8			12	20	1

Prime Provider: Infratech Engineers & Innovators, LLC

HOURS SUB-TOTALS	10	0	0	69	0	144	80	0	0	303	37	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$2,919.90	\$0.00	\$0.00	\$18,315.36	\$0.00	\$23,999.04	\$10,883.20	\$0.00	\$0.00	\$56,117.50		
SUBTOTAL - FC 160 (161)										\$56,117.50		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (162)												
SIGNING, PAVEMENT MARKINGS AND SIGNALIZATION (PERMANENT)												
SIGNING & PAVEMENT MARKINS												
DEVELOP SIGN INVENTORY/REVIEW EXISTING SIGNS						2	4			6		N/A
SIGNING & PAVEMENT MARKING LAYOUT (1"=100')	2			4		24	24			54	4	14
SUMMARY OF SMALL SIGNS				1		2	8			11	1	11
SMALL SIGN DETAILS				1		2	8			11	1	11
SUMMARY OF LARGE SIGNS				1		2	8			11	1	11
LARGE SIGN DETAILS				2		16				18	1	
LARGE SIGN STRUCTURE DETAILS				4		16	24			44	2	22
COMPUTE & TABULATE SIGN QUANTITIES (60%, 90%, 95% & 100%)				2		6	12			20	1	N/A
COMPUTE & TABULATE MARKING QUANTITIES (60%, 90%, 95% & 100%)				1		6	12			19	1	
IDENTIFY AND ASSAMBLE TxDOT STANDARD SHEETS				1			4			5	14	0
QAQC (30%, 60%,90%,95% AND FINAL)	3			12								
HOURS SUB-TOTALS	5	0	0	29	0	76	104	0	0	214	26	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$1,459.95	\$0.00	\$0.00	\$7,697.76	\$0.00	\$12,666.16	\$14,148.16	\$0.00	\$0.00	\$35,972.03		
SUBTOTAL - FC 160 (162)										\$35,972.03		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (163)												
MISCELLANEOUS (ROADWAY)												
RETAINING WALL KEY MAP			2				4			6	1	6
RETAINING WALL LAYOUTS (2 WALLS)	8			16	24	48	48			144	5	29
RETAINING WALL TYPICAL SECTIONS & HORIZONTAL GEOMETRY DATA (2 WALLS)	0		4	2	4		8			18	N/A	N/A
GENERAL NOTES				2		8	2			12	1	12
MISC RETAINING WALL DETAIL				2	4	16	8			30	1	30
IDENTIFY AND ASSEMBLE APPLICABLE STANDARDS				4			4			8	8	1
COMPUTE AND TABULATE WALL QUANTITIES (60%, 90%, 95% and Final)					4	16	8			28	1	N/A
QA/QC WALL PLANS & CALCS (60%, 90%, 95% and Final)	4	36								40	N/A	N/A
TRAFFIC CONTROL PLAN, DETOURS & SEQUENCE OF CONSTRUCTION:												
SEQUENCE OF CONSTRUCTION NARRATIVE / TCP GENERAL NOTES	1	4		2	4	4	8			23	1	23
ADVANCED WARNING SIGNS						4	8			12	1	12
TCP TYPICAL SECTION				1	2	8	8			19	1	19
TCP LAYOUT SHEETS- SH 99 (DOUBLE BANK)				2	8	16	16			42	2	21
TCP LAYOUT SHEETS- CINCO RANCH BLVD				1	2	8	8			19	1	19
DETOUR LAYOUTS					2	4	12			18	2	9
TEMPORARY SHORING PLAN		8			8	24	12			52	4	13
FORM 2229					2					2	1	2
IDENTIFY AND ASSEMBLE APPLICABLE STANDARDS					2		6			8	30	0
COMPUTE & TABULATE TCP QUANTITIES (60%, 90%, 95% and Final)					4	16	24			44	1	N/A
QA/QC TCP PLANS (60%, 90%, 95% and Final)	4			32						36	N/A	N/A
TRAFFIC CONTROL WORKSHOP (One)	2	2			4					8	N/A	N/A
ILLUMINATION												
REVIEW EXISTING ILLUMINATION PLANS					2	8				10	N/A	N/A
ILLUMINATION LAYOUTS	2			6	12	24	24			68	3	23
UNDERPASS ILLUMINATION DETAILS				2	4	8	8			22	1	22
CIRCUIT DIAGRAMS				1	2	16	4			23	1	23
ELECTRICAL SERVICE DATA						2	8			10	1	10
COMPUTE & TABULATE QUANTITIES (60%, 90%, 95% & 100%)	1			4	4	12	12			33	1	N/A
IDENTIFY AND REVIEW TxDOT STANDARD SHEETS					2		4			6	8	1
COORDINATION WITH POWER COMPANY					4		2			6	N/A	N/A
QAQC ILLUMINATION PLANS (60%, 90%, 95% AND FINAL)	2			12						14	N/A	N/A
STORM WATER POLLUTION PREVENTION PLAN (SWP3)												
SW3P LAYOUTS (DOUBLE BANK)				2	8	16	16			42	3	14
SWP3 SHEET				2	4	8				14	2	7
SWP3 STANDARDS					2		4			6	12	1
COMPUTE & TABULATE SW3P QUANTITIES (60%, 90%, 95% and Final)					2	8	16			26	1	

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QAQC SWP3 PLANS (60%, 90%, 95% AND FINAL)	2			12						14		
SPECIFICATIONS & ESTIMATE:												
PREPARE CONSTRUCTION COST ESTIMATE (30%, 60%, 90%, 95% & FINAL)	4	4		4	16	16	8			52	N/A	N/A
PREPARE E&Q SHEETS (TXDOT CONNECT)	2				8					10	17	1
CONTRACT TIME DETERMINATION (95% AND FINAL)	2			8	24	12				46	N/A	N/A
GENERAL NOTES/ PREPARE GENERAL NOTES SHEETS	4	8		8	8	12				40	N/A	N/A
SPECIFICATIONS AND PROVISIONS	4	4		4	8	4				24	N/A	N/A
CONSTRUCTABILITY REVIEW (30%, 60%, 90%, 95% and Final)	8	16		16	8					48	N/A	N/A
										0		
SUBMITTAL PREPARATION / COMMENT RESPONSES												
30% PS&E SUBMITTAL/ COMMENT RESPONSES	2			2	4	4	4			16	N/A	N/A
BRIDGE/WALL LAYOUT SUBMITTAL	2	4	8				2			16	N/A	N/A
60% PS&E SUBMITTAL/ COMMENT RESPONSES	4	4	12	4	8	12	8			52	N/A	N/A
90% PS&E SUBMITTAL/ COMMENT RESPONSES	4	4	8	4	8	8	8			44	N/A	N/A
95% & Final PS&E SUBMITTAL/ COMMENT RESPONSES	4	2	2	2	4	8	8			30	N/A	N/A
PREPARE PORTFOLIO SET	4					16	16			36	N/A	N/A
	70	96	36	157	216	366	336	0	0	1277	94	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$20,439.30	\$45,524.72	\$6,891.12	\$41,674.08	\$48,018.96	\$60,997.56	\$45,709.44	\$0.00	\$0.00	\$269,255.18		
SUBTOTAL - FC 160 (163)										\$269,255.18		

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (170)												
BRIDGE DESIGN												
SBML Cinco Ranch Blvd Overpass Widening - 3 Span												
BRIDGE LAYOUT - PLAN AND PROFILE (INCLUDES AS-BUILT AND SURVEY FIT)		4	12			8	16			40	1	40
BRIDGE LAYOUT - TYPICAL SECTION		4	12			8	12			36	1	36
DEVELOP 3D BRIDGE MODEL		2	12			30	4			48		
BRIDGE DETAIL SUMMARY - QUANTITIES AND BEARING SEAT ELEVATIONS		4	8				16			28	1	28
BRIDGE STRUCTURAL DETAILS										0		
PERFORM CALCULATIONS FOR DESIGN OF BRIDGE ABUTMENTS		2	12				24			38		
PERFORM CALCULATIONS FOR BRIDGE SLAB DESIGN			4				8			12		
PERFORM CALCULATIONS TO DETERMINE ELEVATIONS OF BRIDGE SUBSTRUCTURE AND SUPER STRUCTURE ELEMENTS			12				12			24		
PERFORM CALCULATIONS FOR BRIDGE I GIRDER DESIGN			24				12			36		
PREPARE FOUNDATION PLAN SHEETS		2	12							14	2	7
REMOVAL DETAILS - TOP SEGMENT OF EXISTING WING WALLS		2	8				16			26	1	26
PREPARE PLAN SHEETS FOR ABUTMENT DESIGN		8	16			16	24			64	2	32
PREPARE PLAN SHEETS FOR ADDITIONAL ABUTMENT DETAILS		4	12				16			32	1	32
DESIGN AND DETAIL INTERIOR BENT SHEETS (2 BENTS)		4	12				40			56	2	28
PREPARE FRAMING PLAN AND SLAB PLAN SHEETS		4	12			24	40			80	3	27
COMPUTE AND PREPARE TABLES FOR SLAB AND DEAD LOAD DEFLECTIONS AND SLAB SECTION		2	6			12	8			28	1	
DESIGN BEAMS AND PREPARE BEAM DESIGN TABLES		2	4			10	8			24	1	
PREPARE AND SUBMIT BRIDGE NOTES/CALCULATIONS			4			12	8			24		
QA/QC (30%, 60%, 90%, AND 100% SUBMITTAL)		48								48		
IDENTIFY AND ASSMABLE TxDOT STANDARD SHEETS		1	4				8			13	6	2
HOURS SUB-TOTALS	0	93	186	0	0	120	272	0	0	671	22	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$0.00	\$27,155.07	\$35,604.12	\$0.00	\$0.00	\$19,999.20	\$37,002.88	\$0.00	\$0.00	\$119,761.27		
SUBTOTAL - FC 160 (170)										\$119,761.27		

Prime Provider: Infratech Engineers & Innovators, LLC

DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Sr. CADD Tech	ADMIN / CLERICAL	TOTAL MH BY FC	TOTAL COSTS BY FC
FEASIBILITY STUDIES - FC 102 (110)	9	25	30	1	20	26	4	8	0	123	\$26,129.86
SOCIAL/ECON/ENVIRON STUDIES - FC 120 (120)	2	0	0	0	4	0	8	0	0	14	\$2,561.54
RIGHT OF WAY DATA - FC 130 (130)	1	0	2	0	2	4	0	0	0	9	\$1,786.09
MANAGING CONTRACTED/DONATED PE - FC 145 (145, 164)	128	40	0	0	52	24	0	0	0	244	\$64,614.28
ROADWAY DESIGN - FC 160 (150)	1	0	0	0	2	8	8	0	0	19	\$3,158.21
ROADWAY DESIGN - FC 160 (160)	30	0	0	53	72	209	230	20	0	614	\$107,132.08
ROADWAY DESIGN - FC 160 (161)	10	0	0	69	0	144	80	0	0	303	\$56,117.50
ROADWAY DESIGN - FC 160 (162)	5	0	0	29	0	76	104	0	0	214	\$35,972.03
ROADWAY DESIGN - FC 160 (163)	70	96	36	157	216	366	336	0	0	1277	\$269,255.18
ROADWAY DESIGN - FC 160 (165)	0	0	0	0	0	0	0	0	0	0	\$0.00
ROADWAY DESIGN - FC 160 (170)	0	93	186	0	0	120	272	0	0	671	\$119,761.27
SUBTOTAL LABOR EXPENSES	256	254	254	309	368	977	1042	28	0	3488	\$686,488.04

OTHER DIRECT EXPENSES	UNIT		COST/UNIT	QUANTITY						
Mileage	mile		\$0.56	300						\$168.00
Toll Charges	each		\$5.00	8						\$40.00
Courier Services	each		\$40.00	2						\$80.00
Photocopies B/W (11" X 17")	each		\$0.50	500						\$250.00
Photocopies Color (11" X 17")	each		\$1.50	50						\$75.00
SUBTOTAL DIRECT EXPENSES										\$613.00

SUBCONSULTANT FEE										
GEOTECHNICAL INVESTIGATION (GEOTEST ENGINEERING, INC.)										\$112,820.00

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
CONSTRUCTION PHASE SERVICES (SPECIFIED RATE)												
ATTEND PRECONSTRUCTION MEETING	4	4								8		
Review and Respond to RFI (Up to 4)	8	8	12	4	8	8				48		
Review Shop Drawings	8	16	24		8	16				72		
HOURS SUB-TOTALS	20	28	36	4	16	24	0	0	0	128		
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$5,839.80	\$8,175.72	\$6,891.12	\$1,061.76	\$3,556.96	\$3,999.84	\$0.00	\$0.00	\$0.00	\$29,525.20		
SUBTOTAL - FC 309										\$29,525.20		

SUMMARY	
TOTAL LABOR COSTS	\$686,488.04
TOTAL UN IT COSTS	\$613.00
SUB CONSULTANT COSTS	\$112,820.00
CONSTRUCTION PHASE SERVICES (SPECIFIED RATE)	\$29,525.20
GRAND TOTAL	\$829,446.24

Prime Provider: Infratech Engineers & Innovators, LLC

OPTIONAL FEE

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ATTEND UTILITY COORDINATION MEETINGS	4		8		8					20	N/A	N/A
REVIEW/ASSIST WITH UTILITY CONFLICT ANALYSIS/ RESOLUTION	2		8		8	16				34	N/A	N/A
BID PHASE SUPPORT/ ATTEND PRE-BID MEETING	12	8		4	8					32	N/A	N/A
ADDITIONAL FEE FOR DRILLED SHAFT WALL DESIGN AND DETAILS	3	106	220	0	8	0	230	0	0	567		N/A
ADDITIONAL FEE FOR SOIL NAIL WALL DESIGN AND DETAILS	4	62	140	0	0	0	72	0	0	278		
(see "Optional-Walls" tab for more info)												
HOURS SUB-TOTALS	25	176	376	4	32	16	302	0	0	931	0	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$7,299.75	\$51,390.24	\$71,973.92	\$1,061.76	\$7,113.92	\$2,666.56	\$41,084.08	\$0.00	\$0.00	\$182,590.23		
SUBTOTAL - FC 160 (162)										\$182,590.23		

SUMMARY FOR OPTIONAL FEE FOR DRILL SHAFT WALL OPTION	
TOTAL LABOR COSTS	\$182,590.23
SUB CONSULTANT COSTS	\$53,330.00
GRAND TOTAL	\$235,920.23

SEE ATTACHED



GEOTEST ENGINEERING, INC.

Geotechnical Engineers & Materials Testing

5600 Bintliff Drive

Houston, Texas 77036

Telephone: (713) 266-0588

Fax: (713) 266-2977

Proposal No. 1140642599

December 1, 2023

Mr. Syed Haq, P. E.
InfraTech Engineers & Innovators, LLC.
11111 Wilcrest Green Drive; Suite 410
Houston, TX 77042

**Reference: Proposal for Geotechnical Investigation
SH 99 Southbound Main Lanes widening over Cinco Ranch Blvd
Fort Bend County, Texas**

Dear Mr. Haq:

In accordance with your request, Geotest Engineering, Inc. (Geotest) is pleased to present this revised proposal for the geotechnical investigation for the proposed SH 99 Southbound Main Lanes widening over Cinco Ranch Boulevard in Fort Bend County, Texas. The proposed improvements include approximately widening of the outside southbound main lane bridge over Cinco Ranch and two retaining walls at the edge of the main lanes. Based on our conversations with InfraTech, it is our understanding that the proposed retention structure of choice is soil nail wall given the limited right-of-way. In addition, there is an overhead sign board (Westheimer Pkwy exit sign) and a cantilever overhead sign structure (Cinco Ranch Blvd exit sign) that will need to be relocated. Based on the available information, the inside lanes of the SH99 northbound and southbound main lane bridges at Cinco Ranch Blvd are under construction as part of a different project.

Based on the information provided by InfraTech, all the borings will be performed per TxDOT criteria.

Purpose and Scope

The purposes of this study are to perform a geotechnical investigation and develop geotechnical recommendations for the proposed improvements.

The scope of services is based on the information provided to us by your e-mails on October 17, 2023, October 24, 2024, and our conversations on October 16, 2023, October 17, 2023, October 18, 2023 and November 30, 2023, and consists of the following:

- Drill and sample a total of ten (10) soil borings to depths ranging from 35 to 100 feet in accordance with TxDOT criteria. The details of boring program are given below and also shown on attached plan of borings, presented on Figure 1:
 - Two (2) soil borings each to a depth of 100 feet for the proposed main lane bridge widening (although the span of subject bridge is about 390 feet, the current scope is only proposing 2 bridge boreholes, considering the previous geotechnical boreholes performed for the bridge inside lanes);
 - Two (2) soil borings, each to a depth of 55 feet, one (1) soil boring to a depth of 50 feet, one (1) soil boring to a depth of 45 feet, and two (2) soil borings each to a depth of 35 feet, for proposed soil nail wall along the west side of proposed southbound main lane widening;
 - One (1) soil boring to a depth of 50 feet for proposed cantilever overhead sign structure relocation and one (1) soil boring to a depth of 50 feet for proposed overhead sign board relocation.

Texas Cone Penetration (TCP) tests will be performed on every 5-foot interval for all borings. It is assumed that the proposed borings will be located and tied in by you or your surveyor.

- Perform laboratory tests on representative soil samples to evaluate the engineering properties of the soils.
- Perform engineering analyses to develop geotechnical recommendations for the proposed bridge, soil nail walls, and sign structures.
- Submit a geotechnical report containing a plan showing the locations of the borings, Wincore logs and recommendations as outlined above.

Schedule and Fees

We should be able to start field work within one (1) week after receiving your written authorization or one (1) week after receiving the TxDOT Right-of-Way (ROW), whichever is latest. The field work will be complete in about three (3) weeks, barring bad weather. The laboratory tests will be completed in about nine (9) weeks. The geotechnical report, which will

include field and laboratory data and design recommendations, will be submitted in about fourteen (14) weeks after completion of field work.

Based on the scope of work outlined above, the cost of the field investigation, laboratory testing, engineering analyses, and a geotechnical report will not exceed a cost of \$112,820.00. The cost breakdown is provided in Attachment No. 1.

We appreciate the opportunity to submit this proposal. Formal authorization is required for our services. This may be provided by signing in the space provided below and returning one copy for our files.

Very truly yours,
GEOTEST ENGINEERING, INC.

B.C. 

Mohan Ballagere, P.E.
Vice President

MB\ego

Copies Submitted: (1)

Enclosures:

Proposed Plan of Borings – Figure 1

Attachment No. 1 – Cost Breakdown

PC38\Geotechnical\Proposals\40642599R3.DOC

ACCEPTED BY: _____


PRINTED NAME: _____


TITLE: _____


DATE: _____

GEI 1140642599

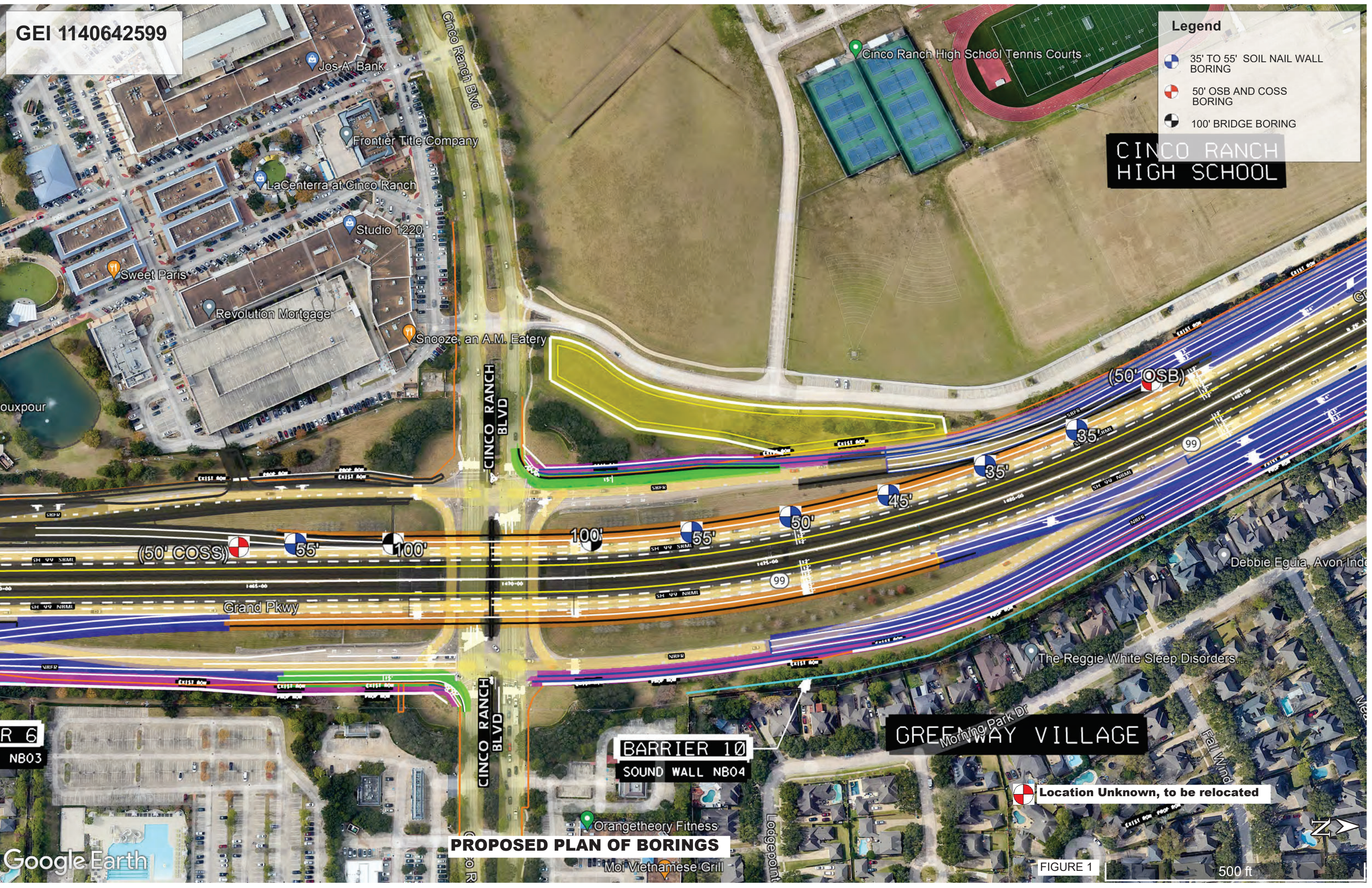
Legend

 35' TO 55' SOIL NAIL WALL BORING

 50' OSB AND COSS BORING

 100' BRIDGE BORING

CINCO RANCH
HIGH SCHOOL



R 6
NB03

Google Earth

PROPOSED PLAN OF BORINGS

BARRIER 10
SOUND WALL NB04

GREENWAY VILLAGE

 Location Unknown, to be relocated

FIGURE 1

500 ft

Geotechnical Investigation
 SH 99 Southbound Main Lane
 Widening over Cinco Ranch Blvd
 Fort Bend County, Texas

Proposal No. 1140642599

**Attachment No. 1
 COST BREAKDOWN**

	<u>QUANTITY</u>	<u>UNIT RATE</u>	<u>COST</u>
Engineering Services			
Senior Engineer	10 hrs.	\$250.00	\$2,500.00
Support Manager	20 hrs.	\$205.00	\$4,100.00
Project Engineer	30 hrs.	\$165.00	\$4,950.00
Engineer-In-Training II	96 hrs.	\$115.00	\$11,040.00
Administrative/Clerical	12 hrs.	\$70.00	\$840.00
		Subtotal	\$23,430.00
Subsurface Field Investigation			
Mobilization/Demobilization of Truck Mounted Drill Rig and Crew	1 ea.	\$950.00	\$950.00
Soil Boring/Rock Coring with TCP (< 60 ft.)	495 ft.	\$45.00	\$22,275.00
Soil Boring/Rock Coring with TCP (60 - 120 ft.)	80 ft.	\$54.00	\$4,320.00
Grouting of Completed Bore Holes	575 ft.	\$12.00	\$6,900.00
Traffic Control (Medium Project)	10 ea.	\$2,650.00	\$26,500.00
Utility Clearance for Boring Locations, Logging and and Field Coordination	88 hrs.	\$90.00	\$7,920.00
		Subtotal	\$68,865.00
Laboratory Tests			
Liquid and Plastic Limits	58 ea.	\$71.00	\$4,118.00
Moisture Content	212 ea.	\$11.00	\$2,332.00
Percent Passing No. 200 Sieve	58 ea.	\$55.00	\$3,190.00
Sieve Analysis through No. 200 Sieve	14 ea.	\$65.00	\$910.00
Sieve Analysis with Hydrometer	6 ea.	\$145.00	\$870.00
Unconfined Compressive Strength of Soil	35 ea.	\$51.00	\$1,785.00
Unconsolidated-Undrained Triaxial Compression	23 ea.	\$72.00	\$1,656.00
One Dimensional Consolidation Properties of Soil	2 ea.	\$798.00	\$1,596.00
Consolidated Undrained Triaxial tests	2 ea.	\$1,900.00	\$3,800.00
Specific Gravity	4 ea.	\$67.00	\$268.00
		Subtotal	\$20,525.00
	Total		\$112,820.00

ATTACHMENT-OPTIONAL FEE FOR WALL

OPTIONAL FEE - DRILLED SHAFT WALL DESIGN (infraTECH)

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (163) - DRILLED SHAFT WALL OPTION												
MISCELLANEOUS (ROADWAY)												
GENERAL NOTES	1	8	12				16			37	1	37
DRILLED SHAFT RW WALL DETAILS		40	80				60			180	5	36
DETAILED FEM ANALYSIS OF DS WALL - SOUTH		16	54				60			130	N/A	N/A
DETAILED FEM ANALYSIS OF DS WALL - NORTH		16	40				54			110	N/A	N/A
COMPILE DESIGN CALCULATIONS		4	12				24			40	N/A	N/A
MISC DS RW WALL DETAIL		2	6		8		12			28	1	28
IDENTIFY AND ASSEMBLE APPLICABLE STANDARDS		2	0				4			6	3	2
COMPUTE AND TABULATE WALL QUANTITIES (60%, 90%, 95% and Final)		2	16							18	N/A	N/A
QA/QC WALL PLANS & CALCS (60%, 90%, 95% and Final)	2	16								18	N/A	N/A
	3	106	220	0	8	0	230	0	0	567	10	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$875.97	\$30,950.94	\$42,112.40	\$0.00	\$1,778.48	\$0.00	\$31,289.20	\$0.00	\$0.00	\$107,006.99		
SUBTOTAL - FC 160 (163): DS WALL OPTION										\$107,006.99		

OPTIONAL FEE - SOIL NAIL WALL DESIGN (infraTECH)

TASK DESCRIPTION	PROJECT MANAGER	SENIOR ENGINEER (BRIDGE)	ENGINEER (BRIDGE)	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	Engineer In Training	Senior Engineer Tech	ADMIN / CLERICAL	TOTAL LABOR HRS. & COSTS	NO OF DWGS	LABOR HRS PER SHEET
ROADWAY DESIGN - FC 160 (163) - SOIL NAIL WALL OPTION												
MISCELLANEOUS (ROADWAY)												
STRUCTURAL NAIL LAYOUTS	2	40	80				40			162	5	32
SOIL NAIL DETAILS	2	12	36				24			74	3	25
GENERAL NOTES		2	8							10	1	10
MISC RETAINING WALL DETAIL		8	16				8			32	1	32
	4	62	140	0	0	0	72	0	0	278	8	
CONTRACT RATE PER HOUR	\$291.99	\$291.99	\$191.42	\$265.44	\$222.31	\$166.66	\$136.04	\$108.83	\$91.25			
TOTAL LABOR COSTS	\$1,167.96	\$18,103.38	\$26,798.80	\$0.00	\$0.00	\$0.00	\$9,794.88	\$0.00	\$0.00	\$55,865.02		
SUBTOTAL - FC 160 (163): SOILNAIL WALL OPTION										\$55,865.02		



GEOTEST ENGINEERING, INC.

Geotechnical Engineers & Materials Testing

5600 Bintliff Drive

Houston, Texas 77036

Telephone: (713) 266-0588

Fax: (713) 266-2977

Proposal No. 1140642599

ADDITIONAL

December 1, 2023

Mr. Syed Haq, P. E.
InfraTech Engineers & Innovators, LLC.
11111 Wilcrest Green Drive; Suite 410
Houston, TX 77042

**Reference: Additional Proposal for Drill Shaft Wall Geotechnical Investigation
SH 99 Southbound Main Lanes widening over Cinco Ranch Blvd
Fort Bend County, Texas**

Dear Mr. Haq:

In accordance with your request, Geotest Engineering, Inc. (Geotest) is pleased to present this additional proposal for drill shaft wall (as an optional) in addition to the revised proposal submitted to you on October 25, 2023 for the geotechnical investigation for the proposed SH 99 Southbound Main Lanes widening over Cinco Ranch Boulevard in Fort Bend County, Texas. The proposed improvements are presented as part of the Original Revised Proposal No. 1140642599 dated October 25, 2023 and this additional proposal will include scope covering the drilled shaft wall alternative to the originally intended soil nail wall. Based on the provided information, it is our understanding that InfraTech is considering drilled shaft wall alternative in case we encounter any weak soils along existing embankment adjacent to the subject bridge. Please note that this scope should be authorized in addition to the original proposal to cover the proposed drilled shaft wall alternative.

Based on the information provided by InfraTech, all the borings will be performed per TxDOT criteria.

Purpose and Scope

The purposes of this study are to perform a geotechnical investigation and develop geotechnical recommendations for the proposed drilled shaft wall.

The additional scope of services is based on the information provided to us by your e-mails on October 17, 2023, October 24, 2024, and our conversations on October 16, 2023,

October 17, 2023, October 18, 2023, October 25, 2023 and November 30, 2023, and consists of the following:

- Deepen the previously proposed six (6) soil nail wall/retaining wall boreholes with depths ranging from 35 to 55 feet, to 80 feet each. Texas Cone Penetration (TCP) tests will be performed on every 5-foot interval for all borings. It is assumed that the proposed borings will be located and tied in by you or your surveyor.
- Perform laboratory tests on representative soil samples to evaluate the engineering properties of the soils.
- Perform engineering analyses to develop geotechnical recommendations for the proposed drilled shaft wall.
- Submit a geotechnical report containing a plan showing the locations of the borings, Wincore logs and recommendations as outlined in the original proposal including the drilled shaft wall recommendations.

Schedule and Fees

We should be able to start field work within one (1) week after receiving your written authorization or one (1) week after receiving the TxDOT Right-of-Way (ROW), whichever is latest. The field work will be complete in about one (1) week, barring bad weather. The laboratory tests will be completed in about four (4) weeks. The design recommendations for drill shaft wall will be included as part of the original geotechnical report (above 14 weeks after completing field work) for SH 99 southbound main lanes widening over Cinco Ranch.

Based on the scope of additional work outlined above, the cost of the field investigation, laboratory testing, engineering analyses, and amending original geotechnical report will be a not to exceed a cost of \$53,330.00. The cost breakdown is provided in Attachment No. 1.

We appreciate the opportunity to submit this proposal. Formal authorization is required for our services. This may be provided by signing in the space provided below and returning one copy for our files.

Very truly yours,
GEOTEST ENGINEERING, INC.

B.C. 

Mohan Ballagere, P.E.
Vice President

MB\ego

Copies Submitted: (1)

Enclosures: Attachment No. 1 – Cost Breakdown
PC38\Geotechnical\Proposals\40642599_AdditionalR.DOC

ACCEPTED BY: _____

PRINTED NAME: _____

TITLE: _____

DATE: _____

Geotechnical Investigation
 SH 99 Southbound Main Lane
 Widening over Cinco Ranch Blvd
 Fort Bend County, Texas

Proposal No. 1140642599
 ADDITIONAL

**Attachment No. 1
 COST BREAKDOWN**

	<u>QUANTITY</u>	<u>UNIT RATE</u>	<u>COST</u>
Engineering Services			
Senior Engineer	2 hrs.	\$250.00	\$500.00
Support Manager	4 hrs.	\$205.00	\$820.00
Project Engineer	6 hrs.	\$165.00	\$990.00
Engineer-In-Training II	48 hrs.	\$115.00	\$5,520.00
Administrative/Clerical	4 hrs.	\$70.00	\$280.00
		Subtotal	\$8,110.00
Subsurface Field Investigation			
Mobilization/Demobilization of Truck Mounted Drill Rig and Crew	1 ea.	\$950.00	\$950.00
Soil Boring/Rock Coring with TCP (< 60 ft.)	85 ft.	\$45.00	\$3,825.00
Soil Boring/Rock Coring with TCP (60 - 120 ft.)	120 ft.	\$54.00	\$6,480.00
Auguring to previous drilled borehole depths	275 ft.	\$14.00	\$3,850.00
Grouting of Completed Bore Holes	480 ft.	\$12.00	\$5,760.00
Traffic Control (Medium Project)	6 ea.	\$2,650.00	\$15,900.00
Utility Clearance for Boring Locations, Logging and and Field Coordination	32 hrs.	\$90.00	\$2,880.00
		Subtotal	\$39,645.00
Laboratory Tests			
Liquid and Plastic Limits	21 ea.	\$71.00	\$1,491.00
Moisture Content	78 ea.	\$11.00	\$858.00
Percent Passing No. 200 Sieve	21 ea.	\$55.00	\$1,155.00
Sieve Analysis through No. 200 Sieve	5 ea.	\$65.00	\$325.00
Sieve Analysis with Hydrometer	3 ea.	\$145.00	\$435.00
Unconfined Compressive Strength of Soil	13 ea.	\$51.00	\$663.00
Unconsolidated-Undrained Triaxial Compression	9 ea.	\$72.00	\$648.00
		Subtotal	\$5,575.00
		Total	\$53,330.00