

## ENGINEERING SERVICES AGREEMENT

THIS AGREEMENT is made and entered into by and between the Fort Bend County Toll Road Authority, a Local Government Corporation (the “Authority”) organized and operating under the laws of the State of Texas, hereinafter called the “FBCTRA” and Terracon Consultants, Inc., hereinafter called “Engineer.”

### WITNESSETH

WHEREAS, the FBCTRA proposes to construct the extension of the Fort Bend Parkway Toll Road from Sienna Ranch Road to FM 2759 (Segments B-3 and B-4) (Project 101-1029), in Fort Bend County, Texas, (the “Project”);

WHEREAS, the FBCTRA desires to enter into an agreement with Engineer for the performance of services during the Project, that are within the scope of services in Attachment A (“Scope of Services”);

NOW, THEREFORE, in consideration of the mutual covenants and conditions set forth below, the parties agree as follows:

### AGREEMENT

1. General

The Engineer shall render professional services to FBCTRA related to the Project as defined in the Scope of Services in Attachment A.

The standard of care for all professional engineering and related services performed or furnished by Engineer under this Agreement will be the care and skill ordinarily used by members of Engineer’s profession practicing under similar conditions at the same time and in the same locality.

2. Compensation and Payment

- a. The Maximum Compensation under this Agreement is \$900,000.00. The amount paid under this Agreement may not exceed the Maximum Compensation without an approved supplemental agreement.

Compensation for the performance of services within the Scope of Services described in Attachment A will be paid per the rates shown in Attachment B, in an amount not to exceed \$900,000.00, only for work authorized prior to being performed and only for such work as was actually performed.

- b. The Engineer shall furnish satisfactory documentation of such work (e.g., timesheets, billing rates, classifications, invoices, etc.) as may be required by

FBCTRA. All performance of the Scope of Services and any services outside the Scope of Services (“Additional Services”), including changes in the contractual scope of work and revision of work satisfactorily performed, will be performed only when approved in advance and authorized by the FBCTRA, and Additional Services will be reimbursed based on the billing rates in effect at that time, to the extent that such labor costs and subcontracts are reasonable and necessary for the performance of such services. Out-of-pocket expense costs may be reimbursed only when approved in advance and authorized by the FBCTRA. Payment will be made (i) on the basis of project progress to be billed monthly, and, for Additional Services, (ii) on the basis of time and expense records, and, in accordance with those payment procedures set forth in subsection d. below. Billing rates will be inclusive of all direct labor, fringe benefits, general overhead, and profit.

- c. Where subcontractors are employed by the Engineer to perform pre-approved and pre-authorized Additional Services, the Engineer will be reimbursed for subcontractors’ actual salaries and hourly rates. Reimbursement to the subcontractor for non-salary costs incurred by subcontractor will be on the same basis as if the cost was incurred by the Engineer. For subcontractors employed for the convenience of the FBCTRA, the Engineer will be paid a subcontract administrative fee equal to ten percent (10%) of all subcontractor invoiced amounts.
- d. It is understood and agreed that monthly payments will be made to the Engineer by the FBCTRA based on the following procedures: On or about the fifteenth day of each month during the performance of services hereunder and on or about the fifteenth day of the month following completion of all services hereunder, the Engineer shall submit to the FBCTRA one invoice showing the amounts due for services performed during the previous month, set forth separately for work under this Agreement and for additional services (accompanied by supporting certified time and expense records of such charges in a form acceptable to the FBCTRA.) It is specifically understood that any requests for travel reimbursements shall comply with those procedures for travel reimbursement to Fort Bend County employees established by the Fort Bend County Auditor. The FBCTRA shall review such invoices and approve them with such modifications as are consistent with this Agreement and forward same to the Auditor. The County shall pay each such invoice as approved by the FBCTRA within thirty (30) calendar days after receipt by the FBCTRA.

### 3. Time of Performance

It is understood and agreed that the time for performance of the Engineer’s services under this Agreement shall begin with receipt of the Notice to Proceed. The Engineer will maintain the delivery schedule to be provided by the FBCTRA.

This Agreement will terminate upon the Engineer’s completion of the Scope of Services to the satisfaction of the FBCTRA.

4. The FBCTRA's Option to Terminate

- a. The FBCTRA has the right to terminate this Agreement at its sole option at any time, with or without cause, by providing 30 days written notice of such intentions to terminate and by stating in said notice the "Termination Date" which shall be less than 30 days later than the actual receipt of such written notice by the Engineer. Upon such termination, the FBCTRA shall compensate the Engineer in accordance with Section 2, above, for those services which were provided under this Agreement prior to its termination, and which have not been previously invoiced to the FBCTRA. The Engineer's final invoice for said services will be presented to and paid by the FBCTRA in the same manner set forth in Section 2(d), above.
- b. Termination of this Agreement and payment as described in subsection (a) of this section shall extinguish all rights, duties, obligations, and liabilities of the FBCTRA and the Engineer under this Agreement, and this Agreement shall be of no further force and effect, provided, however, such termination shall not act to release the Engineer from liability for any previous default either under this Agreement or under any standard of conduct set by common law or statute. The obligations in Sections 5, 6, and 14 of this Agreement shall survive the termination of this Agreement.
- c. If the FBCTRA terminates this Agreement as provided in this section, no fees of any type, other than fees due and payable at the Termination Date, shall thereafter be paid to the Engineer.
- d. The FBCTRA's rights and options to terminate this Agreement, as provided in any provision of this Agreement shall be in addition to, and not in lieu of, any and all rights, actions, and privileges otherwise available under law or equity to the FBCTRA by virtue of this Agreement or otherwise. Failure of the FBCTRA to exercise any of its said rights, actions, options, or privileges to terminate this Agreement as provided in any provision of this Agreement shall not be deemed a waiver of any rights, actions, or privileges otherwise available under the law or equity with respect to any continuing or subsequent breaches of this Agreement or of any other standard of conduct set by common law or statute.
- e. Copies of all completed and partially completed documents prepared under this Agreement shall be delivered to the FBCTRA within 30 days of the Termination Date or upon Engineer's receipt of fees due and payable at the Termination Date, whichever is sooner, when and if this Agreement is terminated.

5. Inspection of the Engineer's Books and Records

Upon written notice (including email), the Engineer will permit the FBCTRA, or any duly authorized agent of the FBCTRA, to inspect and examine the books and records of the Engineer for the purpose of verifying the amount of work performed on the Project. FBCTRA's right to inspect survives the termination of this Agreement for a period of four years.

6. Ownership and Reuse of Documents

Upon payment in full for undisputed amounts of Engineer's services, all documents, including original drawings, estimates, specifications, field notes, and data created, produced, developed or prepared by Engineer or its approved outside advisory or support consultants (collectively, the "Documents") shall be the property of the FBCTRA, subject to all of the following terms and conditions; provided, however, FBCTRA shall not own and shall have no right to receive any documents not deemed "final" by the Engineer until completion or termination of this Agreement, as applicable. Engineer will deliver the Documents to FBCTRA within 30 days of the completion or termination of this Agreement and may retain a set of reproducible record copies of the Documents, provided that the Engineer has received full compensation due pursuant to the terms of this Agreement. It is mutually agreed that FBCTRA will use the Documents solely in connection with the Project and for no other purposes, except with the express written consent of the Engineer, which consent will not be unreasonably withheld. Any use of the Documents without the express written consent of the Engineer will be at FBCTRA's sole risk and without liability or legal exposure to Engineer.

FBCTRA shall also be the owner of all intellectual property rights of the services rendered hereunder, including all rights of copyright therein. It is the intention of Engineer and FBCTRA that the services provided are a "work for hire" as the term is used in the federal Copyright Act. Moreover, Engineer hereby agrees to assign, and by these presents, does assign to FBCTRA, all of Engineer's worldwide right, title, and interest in and to such work product and all rights of copyright therein.

Engineer agrees that all trademarks, trade names, service marks, logos, or copyrighted materials of FBCTRA that Engineer is permitted to use in connection with the services will not be used without FBCTRA's consent and shall remain the sole and exclusive properties of FBCTRA, and this Agreement does not confer upon Engineer any right or interest therein or in the use thereof.

7. Personnel, Equipment, and Material

- a. The Engineer represents that it presently has, or is able to obtain, adequate qualified personnel in its employment for the timely performance of the Scope of Services required under this Agreement and that the Engineer shall furnish and maintain, at its own expense, adequate and sufficient personnel and equipment, in the opinion of the FBCTRA, to perform the Scope of Services when and as required and without delays. It is understood that the FBCTRA will approve assignment and release of all key Engineer personnel and that the Engineer shall submit written notification of all key Engineer personnel changes for the FBCTRA's approval prior to the implementation of such changes. For the purpose of this Agreement, key Engineer personnel are defined as: Project Manager. Services described in this Agreement shall be performed under the direction of an engineer licensed to practice professional engineering in the State of Texas.
- b. All employees of the Engineer shall have such knowledge and experience as will

enable them to perform the duties assigned to them. Any employee of the Engineer who, in the opinion of the FBCTRA, is incompetent, or, by his conduct, becomes detrimental to the Project, shall, upon request of the FBCTRA, immediately be removed from association with the Project.

- c. Except as otherwise specified, the Engineer shall furnish all equipment, transportation, supplies, and materials required for its operation under this Agreement.

8. Items to be furnished to Engineer by the FBCTRA

As applicable, the following items will be supplied to the Engineer:

- a. Copies of Segment B-3 and Segment B-4 Issue for Construction plans and specifications by others.
- b. Assistance in coordination with construction company.
- c. Assistance in coordination with all public and governmental entities.

9. Subletting

The Engineer shall not sublet, assign, or transfer any part of its rights or obligations in this Agreement without the prior written approval of the FBCTRA. Responsibility to the FBCTRA for sublet work shall remain with the Engineer.

10. Conference

At the request of the FBCTRA, the Engineer shall provide appropriate personnel for conferences at its offices or attend conferences at the various offices of the FBCTRA, or at the site of the Project, and shall permit inspections of its offices by the FBCTRA, or others when requested by the FBCTRA.

11. Appearance as Witness

If requested by the FBCTRA, or on its behalf, the Engineer shall, as an Additional Service, prepare such engineering exhibits and plans as may be requested for all hearings and trials related to the Project and, further, it shall prepare for and appear at conferences at the office of the FBCTRA and shall furnish competent expert engineering witnesses to provide such oral testimony and to introduce such demonstrative evidence as may be needed throughout all trials and hearings with reference to any litigation relating to the Project. Trial preparation and appearance by the Engineer in courts regarding litigation matters are Additional Services and compensation will be paid in accordance with Section 2(b).

12. Compliance with Laws

The Engineer shall comply with all federal, state, and local laws, statutes, ordinances, rules and regulations, and the orders and 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. When required, the Engineer shall furnish the FBCTRA with certification of compliance with said laws, statutes, ordinances, rules, regulations, orders, and decrees above specified.

13. Insurance

The Engineer shall obtain and maintain, throughout the term of the Agreement, insurance of the types and in the minimum amounts set forth in Attachment C.

14. Indemnification

With respect to claims brought by third parties against either Engineer or the FBCTRA relating to the property or facilities with respect to which this Agreement pertains, Engineer and the FBCTRA agree as follows:

- a. **ENGINEER WILL INDEMNIFY AND HOLD HARMLESS THE FBCTRA, ITS DIRECTORS, OFFICERS, AND EMPLOYEES AGAINST ANY CLAIMS, DEMANDS OR CAUSES OF ACTION; AND COSTS, LOSSES, LIABILITIES, EXPENSES AND JUDGMENTS INCURRED IN CONNECTION THEREWITH, INCLUDING REIMBURSEMENT OF REASONABLE ATTORNEY'S FEES AND COURT COSTS, BROUGHT BY ANY OF ENGINEER'S EMPLOYEES OR REPRESENTATIVES, OR BY ANY OTHER THIRD PARTY, TO THE EXTENT BASED UPON, IN CONNECTION WITH, RESULTING FROM OR ARISING OUT OF THE NEGLIGENT ACTS, ERRORS OR OMISSIONS OF ENGINEER; HOWEVER, ENGINEER'S CONTRACTUAL OBLIGATION OF INDEMNIFICATION SHALL NOT EXTEND TO THE NEGLIGENCE OR OTHER FAULT OF THE FBCTRA OR STRICT LIABILITY IMPOSED UPON THE FBCTRA AS A MATTER OF LAW (INCLUDING STRICT LIABILITY IMPOSED UPON THE FBCTRA AS A RESULT OF THE CONDITION OF THE PROPERTY OR FACILITIES WITH RESPECT TO WHICH THIS AGREEMENT PERTAINS).**
- b. In the event that both the FBCTRA and Engineer are adjudicated negligent or otherwise at fault or strictly liable without fault with respect to damage or injuries sustained by the claimant, each shall be responsible for its own costs of litigation and pro rata share of damages as determined by the proceedings.

It is a condition precedent to the indemnitor's contractual obligation of indemnification under this Agreement that the party seeking indemnity shall provide written notice of a third party claim, demand, or cause of action within 30 days after such third party claim, demand, or cause of action is received by the party seeking indemnity. It is a further

condition precedent to the indemnitor's contractual obligation of indemnification under this Agreement that the indemnitor shall thereafter have the right to participate in the investigation, defense, and resolution of such third party claim.

15. Dispute Resolution

Except as expressly provided in Section 4. Option to Terminate, if a dispute arises out of, or relates to, the breach thereof, and if the dispute cannot be settled through negotiation, then the FBCTRA and the Engineer agree to submit the dispute to mediation. In the event the FBCTRA or the Engineer desires to mediate any dispute, that party shall notify the other party in writing of the dispute desired to be mediated. If the parties are unable to resolve their differences within 10 days of the receipt of such notice, such dispute shall be submitted for mediation in accordance with the Construction Industry procedures and rules of the American Arbitration Association (or any successor organization) then in effect. The deadline for submitting the dispute to mediation can be changed if the parties mutually agree in writing to extend the time between receipt of notice and submission to mediation. The expenses of the mediator shall be shared 50 percent by the FBCTRA and 50 percent by the Engineer. This requirement to seek mediation shall be a condition required before filing an action at law or in equity.

16. Delivery of Notices, Etc.

- a. All written notices, demands, and other papers or documents to be delivered to the FBCTRA under this Agreement, shall be delivered to the Fort Bend County Toll Road Authority, 245 Commerce Green Blvd., Suite 165, Sugar Land, Texas, 77478, Attention: Executive Director, or at such other place or places as it may from time to time designate by written notice delivered to the Engineer. For purposes of notice under this Agreement, a copy of any notice or communication hereunder shall also be forwarded to the following address: Fort Bend County Clerk, 301 Jackson Street, Richmond, Texas 77469, Attention: County Judge.
- b. All written notices, demands, and other papers or documents to be delivered to the Engineer under this Agreement shall be delivered to Terracon Consultants, Inc., 11555 Clay Road, Suite 100, Houston, Tx, 77043, Attention: Yatish A. Jakatimath, P.E. or such other place or places as the Engineer may designate by written notice delivered to the FBCTRA.

17. Reports of Accidents, Etc.

Within 24 hours after the occurrence of any accident or other event which results in, or might result in, injury to the person or property of any third person (other than an employee of the Engineer), whether or not it results from or involves any action or failure to act by the Engineer or any employee or agent of the Engineer and which arises in any manner from the performance of this Agreement, the Engineer shall send a written report of such accident or other event to the FBCTRA, setting forth a full and concise statement of the facts pertaining thereto. The Engineer shall also immediately send the FBCTRA a copy of any summons, subpoena, notice, other documents served upon the Engineer, its agents,

employees, or representatives, or received by it or them, in connection with any matter before any court arising in any manner from the Engineer's performance of work under this Agreement.

18. The FBCTRA's Acts

Anything to be done under this Agreement by the FBCTRA may be done by such persons, corporations, or firms as the FBCTRA may designate.

19. Limitations

Notwithstanding anything herein to the contrary, all covenants and obligations of the FBCTRA under this Agreement shall be deemed to be valid covenants and obligations only to extent authorized by the Act creating the FBCTRA and permitted by the laws and the Constitution of the State of Texas. This Agreement shall be governed by the laws of the State of Texas, and no officer, director, or employee of the FBCTRA shall have any personal obligation hereunder.

20. Captions Not a Part Hereof

The captions of subtitle of the several sections and divisions of this Agreement constitute no part of the content hereof but are only labels to assist in locating and reading the provisions hereof.

21. Controlling Law, Venue

This Agreement shall be governed and construed in accordance with the laws of the State of Texas. The parties hereto acknowledge that venue is proper in Fort Bend County, Texas, for all disputes arising hereunder and waive the right to sue or be sued elsewhere.

22. Successors and Assigns

The FBCTRA and the Engineer bind themselves and their successors, executors, administrators, and assigns to the other party of this Agreement and to the successors, executors, administrators, and assigns of the other party, in respect to all covenants of this Agreement.

23. Statutory Terms Applicable to State Political Subdivisions

- a. Engineer certifies and agrees that it (i) does not, nor will not, so long as the Agreement remains in effect, boycott Israel, as such term is defined in Chapter 808, Texas Government Code, (ii) does not engage in business with Iran, Sudan, or any foreign terrorist organization pursuant to Subchapter F of Chapter 2252 of the Texas Government Code; (iii) is not identified on a list prepared and maintained under Sections 806.051, 807.051, or 2252.153, Texas Government Code; (iv) does not, nor will not, so long as the Agreement remains in effect, boycott energy companies, as such term is defined in Chapter 809, Texas Government Code; (v)

does not, nor will not, so long as the Agreement remains in effect, have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association, as such term is defined in 2274.001(3), Texas Government Code; and (vi) is not (a) owned or controlled by (1) individuals who are citizens of China, Iran, North Korea, Russia or any designated country (as such term is defined in 117.003, Texas Business & Commerce Code); or (2) a company or other entity, including a governmental entity, that is owned or controlled by citizens of or is directly controlled by the government of China, Iran, North Korea, Russia, of any designated country; or (b) headquartered in China, Iran, North Korea, Russia or a designated country.

- b. Prior to execution of this Agreement by FBCTRA, the Engineer will be required to submit a Texas Ethics Commission Form 1295. Please see this website for details related to this disclosure:  
[https://www.ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm)
- c. In accordance with Section 176.0065, Texas Local Government Code, a list of local government officers of FBCTRA may be obtained by contacting the FBCTRA's records administrator at (713) 374-3540.

24. Appendices

The Appendices attached to this Agreement, which consists of:

- Attachment A            Scope of Services
- Attachment B            Compensation for Scope of Services
- Attachment C            Insurance Requirements

[Signatures Follow]

IN WITNESS WHEREOF, the parties hereto have signed or have caused their respective names to be signed to multiple counterparts.

FORT BEND COUNTY TOLL ROAD  
AUTHORITY, a local government  
corporation

By: James D. Rice

Name: James D. Rice

Title: Chairman

TERRACON CONSULTANTS, INC.  
ENGINEER

By: Yatish A. Jakatimath

Name: Yatish A. Jakatimath, P.E.

Title: Principal

**EFFECTIVE DATE**

THIS AGREEMENT IS EFFECTIVE ON THE DATE IT IS APPROVED BY THE FORT BEND COUNTY COMMISSIONERS COURT, AND IF NOT SO APPROVED SHALL BE NULL AND VOID.

DATE OF COMMISSIONERS COURT APPROVAL: \_\_\_\_\_

AGENDA ITEM NO.: \_\_\_\_\_

## **ATTACHMENT A SCOPE OF SERVICES**

### **FORT BEND COUNTY TOLL ROAD AUTHORITY CONSTRUCTION MATERIALS TESTING & INSPECTION ENGINEERING SERVICES**

#### **GENERAL DESCRIPTION**

Provide on-call construction materials testing & inspection services, mostly to support construction of the extension of the Fort Bend Parkway Toll Road from Sienna Ranch Road to FM 2759 (Segments B-3 and B-4) (Project 101-1029). The construction work may include materials such as embankment, stabilized subgrade, base, asphalt, concrete pavement, concrete structures, foundations, etc. All work is to Texas Department of Transportation (TxDOT) and Fort Bend County Toll Road Authority (FBCTRA) specifications and requirements.

#### **SCOPE OF SERVICES**

Scope of services covered consist of all required materials testing & inspection to ensure the work meets TxDOT specifications, including any additional or different requirements of FBCTRA. The following services are expected to be performed:

- Moisture/density relationship of soils / stabilized soils
- The atterberg limits / percent soil passing No. 20 sieve / soils classification
- Compaction testing of subgrade soils, compaction testing of fill / backfill
- Compressive strength testing of concrete test cylinders
- Compressive strength of cement stabilized sand
- Asphalt testing
- Material mix design review
- Other engineering consulting, testing and inspection services as requested

Working hours for testing and inspection staff will not be limited to 7 a.m. to 5 p.m. on weekdays, and may include night and weekend work with proper notification.

#### **GENERAL NOTES**

##### **1. General**

- 1.1 All construction materials engineering services including sampling, field and laboratory testing, and inspection services ("Services") performed by Engineer for Authority must be authorized by Authority.
- 1.2 Services not specifically authorized by Authority will not be paid for.
- 1.3 Failure to perform specified services in accordance with Authority requirements may result in cancellation of Engineer's agreement.

## **2. Engineering Services**

- 2.1 Engineering Services shall be performed by a professional engineer licensed in the State of Texas and employed full-time by the Engineer.
- 2.2 Authority shall also compensate Engineer when attending Project-related on-site and progress meetings at the request of the Authority.
- 2.3 Overtime will not be allowed for any Engineering Service.

## **3. Field Services**

- 3.1 "Sampling" is defined as the process of procuring materials for subsequent testing or examination that is performed by a certified technician with knowledge of appropriate sampling procedures.
- 3.2 "Specimen Pickup" is defined as the process of retrieving "specimens" usually prefabricated in the field such as cylinders, beams, or cubes, and transporting those specimens to the laboratory for subsequent testing or examination.
- 3.3 Field Services shall be performed by Engineer's certified engineering technicians in accordance with the Fee Schedule.
  - 3.3.1 A non-certified technician may be allowed to assist a certified technician on a Project provided two or more technicians are required.
  - 3.3.2 Specimen Pickup shall be performed, whenever possible, as part of a scheduled field trip or by the full-time technician assigned to the Project.
  - 3.3.3 Specimen Pickup not performed as a part of a scheduled field trip or by the technician assigned to the Project shall be compensated at the technician rate.
  - 3.3.4 Field sieve analysis and lime slurry percent-solids determination shall be performed in the field as part of the field inspection without an additional testing charge.
  - 3.3.5 Sampling and testing personnel must obtain and keep current their certifications.
  - 3.3.6 All technicians must submit their testing certifications to the Authority before commencing work on the project.
  - 3.3.7 Provisional Certifications: In the event the above mentioned certifications cannot be readily available due to course availability, schedule conflicts, or other extenuating circumstances, provisional certifications may be approved by the Authority, per the following stipulations:
    - a) Provisional certifications will be valid for up to 6 months; and
    - b) The candidate must show evidence of having enrolled in the required ACI or TXAPA course.

#### **4. Reporting**

Engineer shall document all field and laboratory services in a written report prepared in accordance with Project Specifications and standard methods.

4.1 Reports shall contain hours of service for each visit to the Authority Project including Specimen Pickup.

4.2 All Reports must be received by the Authority within 14 calendar days of the original date of service or completion of required laboratory tests.

4.3 Final reports presenting strength test results shall be sent to Authority within three (3) business days following the test date.

**ATTACHMENT B  
COMPENSATION FOR SCOPE OF SERVICES**

**CONSTRUCTION MATERIALS TESTING AND INSPECTION SERVICES**

**TO SUPPORT THE CONSTRUCTION OF THE EXTENSION OF THE FORT BEND  
PARKWAY TOLL ROAD FROM SIENNA RANCH ROAD TO FM 2759  
(SEGMENTS B-3 AND B-4)  
PROJECT 101-1029**

**GENERAL NOTES**

**1. General**

- 1.1 Compensation of Engineer for personnel performing sampling, testing, and inspection shall be as stated in the Fee Schedule.
- 1.2 Fees for services are inclusive of all tools, equipment and consumable supplies needed to perform the subject services, except as specifically noted in this Attachment.
- 1.3 Fees for Services performed on an hourly basis shall be recorded to the nearest  $\frac{1}{4}$  (0.25) hour and will be compensated at the applicable rate.
- 1.4 Overtime for field services is applicable for any hours worked over 40 hours per week on the project. No overtime will be paid without prior approval from the Authority.
- 1.5 A minimum charge of four (4) hours for field technician, vehicle, and equipment (where charged on an hourly rate) shall apply to each visit to the Project site or to an authorized off- site location for sampling, observation, inspection, or testing as outlined in the Fee Schedule. The Authority's authorized field personnel may determine when field testing or inspection services are required.
- 1.6 All hourly services invoiced shall be accompanied by the Company representative's signed time sheet or daily report, including the name and classification of the individual. Hourly services shall be invoiced to the nearest  $\frac{1}{4}$  hour.
- 1.7 A minimum of a 30-minute unpaid lunch shall be taken by the field technician for work over eight (8) hours unless otherwise approved in writing by Authority.
- 1.8 If a technician has departed for the Project, prior to receipt of a cancellation notice by Engineer, Engineer shall be compensated at the applicable technician rate for the time required to Engineer's facility plus applicable Vehicle Charge. A four (4) hour minimum shall apply.
- 1.9 Engineer may be reimbursed by Authority for services of a qualified subcontractor or Engineer, authorized in advance by the Authority, at cost plus 10%.
- 1.10 All reimbursable expenses of Engineer shall be supported by documentation acceptable to the Authority. Reimbursables such as photographs, reproduction material, delivery, background checks, safety training / orientation, traffic control, parking, badging, special supplies, permits, equipment, associated drilling, sampling,

field testing, on site facilities, grading contractors, water trucks, bulldozers, security forces, surveyors or other support services, shall be invoiced and reimbursed at cost + 10%. Receipts for reimbursable expenses must be submitted with the Engineer's invoice for the reimbursable expense.

- 1.11 Authority shall compensate Engineer for travel time between the Engineer's facility and the Authority's Project or other Project-related location. The maximum time compensated for this travel is 1 hour total/roundtrip (30 minutes each way).
- 1.12 Field Services shall be performed by Engineer's certified engineering technicians in accordance with the Fee Schedule.
  - 1.12.1 The rates for coring of Portland cement concrete or asphaltic concrete are inclusive of the field representative's time, all equipment, and patching of the core hole with a conventional concrete mixture for concrete or cold-patching asphaltic materials for asphaltic concrete. The rates for coring do not include a Vehicle Charge. Patching with specialty materials (such as non-shrink repair mortar) must be approved in advance by Authority.
- 1.13 Fees for laboratory tests are inclusive of sample preparation unless specifically noted in this Attachment. Compensation shall not be paid for personnel services and / or materials related to such testing, except as specifically noted in this Attachment.

**FEE SCHEDULE**

The rates and fees listed below are specified rates and fees for the duration of this contract.

**Personnel**

Principal, per hour .....	\$ 350.00
Senior Project Manager (P.E), per hour .....	\$ 195.00
Project Manager, per hour .....	\$ 160.00
On-Call Inspector as requested, per hour .....	\$150.00
Administrative Staff, per hour .....	\$ 100.00
Certified Welding Inspector (CWI), per hour .....	\$ 168.00
Field Representative (Concrete), per hour .....	\$ 90.00
Field Representative (Earthwork), per hour .....	\$105.00
Senior Engineering Technician (Foundations & Asphalt), per hour .....	\$ 110.00

**Transportation**

Vehicle Charge, per day .....	\$ 90.00
Mileage, per mile .....	\$ 0.00 <sup>1</sup>

<sup>1</sup> Mileage reimbursement will follow the official federal travel reimbursement rates set by the Internal Revenue Service (IRS) for the year in which the service is provided.

**Concrete Mix Verifications**

Regular aggregates, each .....	\$ 336.00
Lightweight aggregates, each .....	\$ 392.00
Additional design, same aggregate sample, each .....	\$ 224.00
Review mix design submitted by others, each.....	\$ 196.00
Laboratory Trial Mix Design with cylinders, each.....	\$ 896.00
Laboratory Trial Mix Design with beams, each .....	\$ 1,344.00
Laboratory Trial Mix Design with cylinders and beams, each.....	\$ 1,568.00
Design confirmation cylinder test (ASTM C-39), each .....	\$ 23.00
Design confirmation beam test (ASTM C-293 or C-78), each .....	\$ 62.00

**Concrete Tests**

Cylinder compression test (ASTM C-39), each .....	\$ 25.00
Beam flexural test (ASTM C-293 or C-78), each .....	\$ 62.00
Cube compression test (ASTM C-109), each.....	\$ 34.00
Compressive strength of shotcrete/gunite (ASTM C-1140), each.....	\$ 129.00
Lightweight insulating concrete compression test, 3" x 6" cylinders (ASTM C-495), each .....	\$ 40.00
Lightweight insulating concrete Dry Unit Weight 3" x 6" cylinders (ASTM C-495), each .....	\$ 40.00
Length change of hardened hydraulic cement mortar of concrete (ASTM C-157), set of 3.....	\$ 504.00
Oven Dry Density of Structural Lightweight Concrete (ASTM C-567), each.....	\$ 56.00
Density of Hardened Concrete (ASTM C-642), each .....	\$ 112.00
Determining F <sub>F</sub> Floor Flatness and F <sub>L</sub> Floor Levelness Numbers for Random Traffic Floors (ASTM E-1155) (includes labor, equipment, & vehicle), 4 Hr. Minimum, per hour.....	\$ 168.00
Hilti® Ferroskan (includes labor, equipment, & vehicle), 4 Hr. Minimum, per hour.....	\$ 168.00
Hilti® GPR (includes labor, equipment, & vehicle), 4 Hr. Minimum, per hour.....	\$ 280.00

**Masonry Tests**

Cement mortar mix verification (ASTM C-305), each .....	\$ 560.00
Compressive strength CMU block (ASTM C-140 ), each .....	\$ 112.00
CMU block absorption only (ASTM C-140), each .....	\$ 101.00
Compressive strength masonry prism (ASTM C-1314) CMU prism up to 8 (in.) width, Hollow Cells, each.....	\$ 112.00
CMU prism up to 8 (in.) width, Grout Filled Cells, each.....	\$ 168.00
Brick prism up to 4 (in.) width, each.....	\$ 112.00
Compressive strength of masonry cube/cylinder (ASTM C-109/C-780), each .....	\$ 34.00

**Aggregate Tests**

Sieve analysis, dry (ASTM C-136), each .....	\$ 95.00
Sieve analysis (ASTM C-117), each .....	\$ 85.00
Sieve analysis w/ -200 (ASTM C-136 & C-117), each .....	\$ 135.00
Unit weight (ASTM C-29), each .....	\$ 55.00
Specific gravity/absorption (ASTM C-127 or C-128), each .....	\$ 112.00
Organic impurities (ASTM C-40), each .....	\$ 85.00
L.A. abrasion (ASTM C-131 or C-535), each .....	\$ 390.00
Sulfate soundness, 5 cycles (ASTM C-88), each .....	\$ 615.00
Additional cycles, each .....	\$ 195.00
Sample prep if uncrushed.....	\$ 28.00
Potential Alkali-Silica Reactivity of Aggregates (Mortar Bar Method) (ASTM C1260/C1567):	
2 samples or less, each.....	\$ 1,568.00
3 or more samples, each .....	\$ 1,232.00
Sand Equivalent (ASTM D-2419, TX 203-F), each.....	\$ 135.00
Deleterious Material (ASTM C142), each .....	\$ 90.00
Lightweight Pieces (ASTM C123):	
Fine Aggregate, each .....	\$ 140.00
Coarse Aggregate, each .....	\$ 168.00
Chert, each .....	\$ 196.00
Percent Flat / Elongated Particles (ASTM D-4791), each.....	\$ 75.00
Percent Fractures Faces (ASTM D-4791), each.....	\$ 75.00

**Soils Laboratory Tests**

**Classification**

Moisture Content and visual classification, each .....	\$ 17.00
Atterberg limits (ASTM D-4318 Method A), each .....	\$ 85.00
Percent Passing No. 200 Sieve (ASTM D-1140), each.....	\$ 90.00
Sieve Analysis, each.....	\$ 95.00
Grain Size Analysis (Sieve), each .....	\$ 60.00
Hydrometer Analysis, each.....	\$ 140.00
Density, each .....	\$ 25.00

**Soils Field Services**

Technician time will be charged at the appropriate hourly rate plus:	
Nuclear density gauge, per trip.....	\$ 75.00

**Compaction**

Optimum moisture / maximum density relations (proctors)

ASTM D-698, method A & B, each.....	\$ 196.00
ASTM D-698, method C, each (Includes Rock Correction ASTM D4718).....	\$ 224.00
ASTM D-1557, method A & B, each.....	\$ 245.00
ASTM D-1557, method C, each (Includes Rock Correction ASTM D4718).....	\$ 265.00
TXDOT 113E, each.....	\$ 300.00
TXDOT 114E, Part I, each.....	\$ 245.00
TXDOT 114E, Part II, each .....	\$ 300.00
TXDOT 120E, Part I, each.....	\$115.00

**Strength**

TXDOT wet ball mill value (TEX 116E), each.....	\$ 280.00
TXDOT triaxial series (TEX 117E), each .....	\$ 1,680.00
California Bearing Ratio (CBR) (ASTM D-1883), each.....	\$ 504.00
Compressive Strength Tests including molding	
Fine grained soils (ASTM D-1633, Method A), each .....	\$ 96.00
Base material (TEX 120E), each.....	\$ 112.00

**Stabilization Evaluation**

Lime Series Testing – pH only (ASTM D6276).....	\$ 395.00
Lime Series Testing – PI and pH (ASTM D6276 and D4318).....	\$ 560.00
Cement content (ASTM D-806), each.....	\$ 840.00
Cement content (ASTM D-806), two or more samples, each .....	\$ 616.00
Soil pH Value, each.....	\$ 62.00
Fresh cement content (ASTM D-2901), each.....	\$ 107.00
Fresh cement content 3 point curve (ASTM D-2901), each.....	\$ 471.00
Compressive Strength of Cement Stabilized Sample (ASTM D-1633, Method A), each .....	\$ 70.00

**Chemical Testing**

Corrosion Suite Testing (Chlorides, sulfates, TDS, Red-Ox, pH, Resistivity).....	\$ 392.00
Sulfate Testing (ASTM C1580, TX 145E), each.....	\$ 560.00
Chloride Testing (ASTM D512, AWWA-4500-D), each.....	\$ 840.00
Sulfide Testing (AWWA 4500-CL), each .....	\$ 616.00
Red-Oxidation (ASTM G200), each .....	\$ 62.00
Total Salts (TDS), (AWWA 2520 B), each .....	\$ 107.00
Resistivity (ASTM G57), each .....	\$ 471.00
Resistivity (TX 129E), each .....	\$ 68.00

**Coring Services (Flat Work)\***

**\*Coring performed by a Terracon Approved Sub-Contractor**

Core drilling, minimum charge per trip, local, each .....	\$ 560.00
Concrete pavement cores, 4" diameter up to 6" depth or less, each .....	\$ 112.00
Concrete coring, additional thickness greater than 6" depth, per inch .....	\$ 12.00
Testing concrete cores (includes: length, sawing, capping and compressing testing), each ..	\$ 129.00
Asphalt pavement cores 4" diameter up to 6" depth or less, each.....	\$ 79.00
Asphalt coring, additional thickness greater than 6" depth, per inch .....	\$ 10.00
Standby time in clients interest, machine and operator, per hour .....	\$ 84.00
Structural Concrete Coring .....	By Quotation

**Asphaltic Concrete Services**

Asphalt Laboratory, Full Set.....	\$ 1,010.00
Molding specimens (TEX 206F), set of 3 .....	\$ 84.00
Molding specimens (TEX 241F), set of 2.....	\$ 168.00
Bulk specific gravity of lab molded specimens, set of 2 or 3.....	\$ 73.00
Bulk specific gravity of core specimen (TEX 207F), each .....	\$ 84.00
Maximum theoretical density (TEX 227F), each .....	\$ 135.00
Hveem stability (TEX 208F), set of 3 .....	\$ 90.00
Extraction (ASTM D-2172 or TEX 210F), each .....	\$ 269.00
Asphalt Content and Gradation (TEX 236F & TEX 200-Part 1), each .....	\$ 269.00
HMAC Mix Design (TEX 204F), each.....	\$ 1,792.00
HMAC Mix Design review prepared by others, each.....	\$ 280.00

**NDE Field Services**

Technician time will be charged at the appropriate hourly rate plus:

Ultrasonic gauge, per day .....	\$ 168.00
MT/LP consumables, per day .....	\$ 168.00
Minimum trip charge, personnel and equipment .....	\$ 560.00
Torque Wrench, per day .....	\$ 112.00
Skidmore Wilhelm, per day .....	\$ 112.00
Paint thickness gauge, per day.....	\$ 56.00

**Sprayed Applied Fireproofing Materials**

Density by Displacement Method (ASTM E-605), each.....	\$ 56.00
Adhesion / Cohesion (ASTM E-736), each .....	\$ 34.00

## ATTACHMENT C

The Engineer shall furnish certificates of insurance to the FBCTRA evidencing compliance with the insurance requirements hereof. Certificates shall indicate name of the Engineer, name of insurance company, policy number, term of coverage and limits of coverage. The Engineer shall cause its insurance companies to provide the FBCTRA with at least 30 days prior written notice of any cancellation or non-renewal of the insurance coverage required under this Agreement. The Engineer shall obtain such insurance from such companies having a Bests rating of B+/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 insurance in accordance with the laws of the State of Texas, or state of hire/location of Services, and Employers' Liability coverage with a limit of not less than \$1,000,000 each employee for Occupational Disease, \$1,000,000 policy limit for Occupational Disease; and Employer's Liability of \$1,000,000 each accident.
- b. Commercial General Liability insurance including coverage for Products/Completed Operations, Blanket Contractual, Broad Form Property Damage, Personal Injury/Advertising Liability, and Bodily Injury and Property Damage with limits of not less than:

\$2,000,000	general aggregate limit
\$1,000,000	each occurrence, combined single limit
\$2,000,000	aggregate Products, combined single limit
\$1,000,000	aggregate Personal Injury/Advertising Liability
\$50,000	Fire Legal Liability
\$5,000	Premises Medical
- c. 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.
- d. Umbrella Excess Liability insurance written as excess of Employer's Liability, with limits not less than \$2,000,000 each occurrence combined single limit.
- e. Professional Liability insurance with limits not less than \$2,000,000 each claim/annual aggregate.

The FBCTRA and the FBCTRA's Directors shall be named as additional insureds to all coverages required above, except for those requirements in paragraphs "a" and "e." All policies written on behalf of the Engineer shall contain a waiver of subrogation in favor of the FBCTRA and the FBCTRA's Directors, with the exception of insurance required under paragraph "e."