



SERVICE AGREEMENT NO. 3391

CITY OF CORPUS CHRISTI

MASTER SERVICES AGREEMENT FOR GEOTECHNICAL AND CONSTRUCTION MATERIALS TESTING

This Agreement is between the City of Corpus Christi, a Texas home rule municipal corporation, P.O. Box 9277, Corpus Christi, Nueces County, Texas 78469-9277 (City) acting through its duly authorized City Manager or designee and **Terracon Consultants, Inc** an Texas Corporation, 3606 Wow Road, Corpus Christi, Texas 78413 ("Lab").

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ARTICLE I – PROJECT TASK ORDER

- 1.1 This Agreement shall apply to as many tasks as City and Lab agree will be performed under the terms and conditions of this Agreement. Each task Lab performs for City hereunder shall be designated a Task Order. No Task Order shall be binding or enforceable unless and until it has been properly executed by both City and Lab. Each properly executed Task Order shall become a separate supplemental agreement to this Agreement.
- 1.2 The Lab shall provide its Scope of Services, to be included in each Task Order. The Scope of Services shall include all associated services required for Lab to provide such Services, pursuant to this Agreement, and any and all Services which would normally be required by law or common due diligence in accordance with the standard of care defined in Article VIII of this Agreement. Lab will perform the services in accordance with the approved Scope of Services and with Lab's response to the Request for Qualifications related to this project, which response is incorporated by reference into this Agreement as if set out here in its entirety.
- 1.3 All services provided by Lab shall be performed in accordance with the Terms and Conditions to this Master Services Agreement attached hereto and incorporated herein as **Exhibit A**. All work will be subject to authorization from City. A detailed Scope of Services and fee estimate will be developed for each task prior to execution of work.
- 1.4 The general scope for these Task Orders is outlined in **Exhibit B**. More specific scope of work will be issued for pricing when a task order is needed.
- 1.5 Lab must provide all labor, equipment and transportation necessary to complete all services agreed to in a timely manner throughout the term of the Agreement. Persons retained by Lab to perform work pursuant to this Agreement shall be employees or subcontractors or subconsultants of Lab. Lab must provide City with a list of all subcontractors/subconsultants that includes the services performed by the subcontractors/subconsultants and the percentage of work performed by the subcontractor/subconsultant. Changes in Lab's team that provides services under this Agreement must be agreed to by the City in writing.
- 1.6 Lab must not begin work on any Task Order authorized under this Agreement until they are briefed on the scope of the Project and are issued the fully executed Task Order to proceed.

ARTICLE II – COMPENSATION

- 2.1 The Compensation for all services performed under this Agreement shall not exceed **\$750,000.00**.
- 2.2 The Lab's fee for each Task Order will be on a quantity and unit price basis or lump sum basis with a negotiated not-to-exceed amount. The fees will not exceed those set out in the Task Order and will be full and total compensation for all services outlined in each Task Order, and for all expenses incurred in performing these services.
- 2.3 Lab shall price Task Orders in accordance with **Exhibit C, Rate Schedule**, subject to approval by the City.
- 2.3 All services shall be performed in accordance with the applicable standard of professional care set forth herein and to City's satisfaction, which satisfaction shall be judged by the Director in his/her sole discretion. City shall not be liable for any payment under this Agreement for services which are unsatisfactory and which previously have not been approved by the Director.

- 2.4 In the event of any dispute(s) between the Parties regarding the amount properly compensable for any Task Order or as final compensation or regarding any amount that may be withheld by City, Lab shall be required to make a claim pursuant to and in accordance with the terms of this Agreement and follow the procedures provided herein for the resolution of such dispute. In the event Lab does not initiate and follow the claims procedures provided in this Agreement in a timely manner and as required by the terms thereof, any such claim shall be waived.
- 2.5 Lab will submit progress invoices to City Engineer monthly and final invoice upon completion of services. Each invoice is due and payable by City within 30 days of receipt and approval to pay by the City Engineer.
- 2.6 Request for final compensation by Lab shall constitute a waiver of claims except those previously made in writing and identified by Lab as unsettled at the time of final Payment Request.
- 2.7 Any fee payable under this Agreement is subject to the availability of funds. The Lab may be directed to suspend work pending receipt and appropriation of funds.

ARTICLE III – INSURANCE REQUIREMENTS

3.1 Lab must not commence work under this Agreement until all required insurance has been obtained, and such insurance has been approved by the City. Lab must not allow any subcontractor or subconsultant to commence work under this Agreement until all similar insurance required of any subcontractor or subconsultant has been obtained.

3.2 Insurance Requirements for this Agreement are set out in the Terms and Conditions to this Agreement which is attached hereto and incorporated herein as **Exhibit A**.

ARTICLE IV - INDEMNIFICATION

Lab shall fully indemnify and hold harmless the City of Corpus Christi and its officials, officers, agents, employees, or other entity, excluding the engineer or architect or that person's agent, employee or consultant, over which the City exercises control ("Indemnatee") from and against any and all claims, damages, liabilities or costs, including reasonable attorney fees and court costs, to the extent that the damage is caused by or results from an act of negligence, intentional tort, intellectual property infringement or failure to pay a subcontractor or supplier committed by Lab or its agent, Lab under contract or another entity over which Lab exercises control while in the exercise of rights or performance of the duties under this agreement. This indemnification does not apply to any liability resulting from the negligent acts or omissions of the City or its employees, to the extent of such negligence.

Lab shall defend Indemnatee, with counsel satisfactory to the City Attorney, from and against any and all claims, damages, liabilities or costs, including reasonable attorney fees and court costs, if the claim is not based wholly or partly on the negligence of, fault of or breach of contract by Indemnatee. If a claim is based wholly or partly on the negligence of, fault of or breach of contract by Indemnatee, the Lab shall reimburse the City's reasonable attorney's fees in proportion to the Lab's liability.

Lab must advise City in writing within 24 hours of any claim or demand against City or Lab known to Lab related to or arising out of Lab's activities under this Agreement.

ARTICLE V – TERM; RENEWALS; TIMES FOR RENDERING SERVICE

- 5.1 This Agreement shall be effective upon the signature of the City Manager or designee (Effective Date).
- 5.2 This Agreement shall be applicable to all Task Orders issued hereunder from the Effective Date of the Agreement until Task Orders are complete.
- 5.3 The initial term of this Agreement shall be for a period of **one year** beginning on the Effective Date, unless extended by authority of the City Manager or designee. The Agreement may be renewed for up to **one-year** renewal option upon mutual agreement of the parties to be evidenced in writing prior to the expiration date of the prior term. Any renewals shall be at the same terms and conditions, plus any approved changes.
- 5.4 The times for performing services or providing deliverables will be stated in each Task Order. If no times are so stated, Lab will perform services and provide deliverables within a reasonable time.

ARTICLE VI - TERMINATION OF AGREEMENT

- 6.1 City may terminate this Agreement or Task Order under this Agreement, with or without cause, upon seven days written notice to Lab at the address of record.
- 6.2 Lab will be compensated for authorized services completed up to the date of termination.

ARTICLE VII – RECORD RETENTION; RIGHT OF REVIEW AND AUDIT

- 7.1 Lab grants City, or its designees, the right to audit, examine or inspect, at City's election, all of Lab's records relating to the work and/or services provided under this Agreement, during the term of this Agreement and retention period herein. The audit, examination or inspection may be performed by a City designee, which may include its internal auditors or an outside representative engaged by City. Lab agrees to retain its records for a minimum of four (4) years following termination of the Agreement, unless there is an ongoing dispute under this Agreement, then such retention period shall extend until final resolution of the dispute.
- 7.2 "Lab's records" include any and all information, materials and data of every kind and character generated as a result of the Work under this Agreement. Examples include billings, books, general ledger, cost ledgers, invoices, production sheets, documents, correspondence, meeting notes, subscriptions, agreements, purchase orders, leases, contracts, commitments, arrangements, notes, daily diaries, reports, drawings, receipts, vouchers, memoranda, time sheets, payroll records, policies, procedures, federal and state tax filings for issue in questions and any and all other agreements, sources of information and matters that may, in City's judgment, have any bearing on or pertain to any matters, rights, duties or obligations under or covered by any Agreement Documents.
- 7.3 City agrees that it shall exercise the right to audit, examine or inspect Lab's records only during City's regular business hours. Lab agrees to allow City's designee access to all of Lab's records, Lab's facilities and Lab's current or former employees, deemed necessary by City or its designee(s), to perform such audit, inspection or examination. Lab also agrees to provide adequate and appropriate work space necessary to City or its designees to conduct such audits, inspections or examinations.
- 7.4 Lab shall include this audit clause in any subcontractor, supplier or vendor contract.

ARTICLE VIII – MISCELLANEOUS PROVISIONS

- 8.1 Assignability. The Lab will not assign, transfer or delegate any of its obligations or duties in this Agreement to any other person without the prior written consent of the City, except for routine duties delegated to personnel of the Lab staff. If the Lab is a partnership, then in the event of the termination of the partnership, this contract will inure to the individual benefit of such partner or partners as the City may designate. No part of the Lab fee may be assigned in advance of receipt by the Lab without written consent of the City.

The City will not pay the fees of experts or technical assistance or other Labs unless such employment, including the rate of compensation, has been approved in writing by the City.

- 8.2 Ownership of Documents. Lab agrees that upon payment, City shall exclusively own any and all information in whatsoever form and character produced and/or maintained in accordance with, pursuant to or as a result of this Agreement, including contract documents (plans and specifications), drawings, test results and submittal data. Lab may retain a copy for its files.
- 8.3 Standard of Care. Services performed by Lab will be conducted in a manner consistent with that level of skill and care ordinarily provided by competent members of the profession practicing under the same or similar circumstances and professional license.
- 8.4 Licensing. Lab shall be represented by personnel with appropriate licensure, registration and/or certification(s) at meetings of any official nature concerning the Project, including scope meetings, review meetings, pre-bid meetings and preconstruction meetings.
- 8.5 Entire Agreement. This Agreement, including Task Orders, represents the entire and integrated Agreement between City and Lab and supersedes all prior negotiations, representations or agreements, either oral or written. This Agreement may be amended only by written instrument signed by both the City and Lab.
- 8.6 Disclosure of Interest. Lab agrees to comply with City of Corpus Christi Ordinance No. 17112 and complete the *Disclosure of Interests* form as part of this contract.
- 8.7 Certificate of Interested Parties. Lab agrees to comply with Texas Government Code section 2252.908 and complete Form 1295 Certificate of Interested Parties as part of this agreement. Form 1295 must be electronically filed with the Texas Ethics Commission at https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm. The form must then be printed, signed and filed with the City. For more information, please review the Texas Ethics Commission Rules at <https://www.ethics.state.tx.us/legal/ch46.html>.
- 8.8 Conflict of Interest. Lab agrees to comply with Chapter 176 of the Texas Local Government Code and file Form CIQ with the City Secretary's Office, if required. For more information and to determine if you need to file a Form CIQ, please review the information on the City Secretary's website at <http://www.cctexas.com/government/city-secretary/conflict-disclosure/index>
- 8.9 Controlling Law. This Agreement is governed by the laws of the State of Texas without regard to its conflicts of laws. Venue for legal proceedings lies exclusively in Nueces County, Texas.
- 8.10 Provisions Required by Law. Each applicable provision and clause required by law to be inserted into the Agreement shall be deemed to be enacted herein, and the Agreement shall be read and enforced as though each were physically included herein.
- 8.11 Public Information. The requirements of Subchapter J Chapter 552 Texas Government Code may apply to this Agreement, and the Lab agrees that the Agreement may be terminated if the Lab knowingly or

intentionally fails to comply with a requirement of that subchapter.

- 8.12 Severability. If, for any reason, any one or more Articles and/or paragraphs of this Agreement are held invalid or unenforceable, such invalidity or unenforceability shall not affect, impair or invalidate the remaining Articles and/or paragraphs of this Agreement but shall be confined in its effect to the specific Article, sentences, clauses or parts of this Agreement held invalid or unenforceable, and the invalidity or unenforceability of any Article, sentence, clause or parts of this Agreement, in any one or more instance, shall not affect or prejudice in any way the validity of this Agreement in any other instance.
- 8.13 Title VI Assurance. Lab shall prohibit discrimination in employment based upon race, color, religion, national origin, gender, disability or age.
- 8.14 Independent Contractor. The relationship between City and Lab under this Agreement shall be that of independent contractor. City may explain to Lab the City's goals and objectives in regard to the services to be performed by Lab, but the City shall not direct Lab on how or in what manner these goals and objectives are to be met.
- 8.15 Conflict Resolution Between Documents. Lab hereby agrees and acknowledges if anything contained in any documents prepared by Lab and included herein, is in conflict with the terms of this Agreement, which incorporates Exhibit A, and/or an approved Task Order, this Agreement and/or the Task Order shall take precedence and control to resolve said conflict.
- 8.16 No Waiver of Governmental Immunity. **This Agreement is to perform a governmental function solely for the public benefit. Nothing in this Agreement shall be construed to waive City's governmental immunity from lawsuit, which immunity is expressly retained to the extent it is not clearly and unambiguously waived by state law.**

CITY OF CORPUS CHRISTI

TERRACON CONSULTANTS, INC.

Michael Rodriguez (Date)
Chief of Staff

Tom Barker (Date)
Office Manager
3606 Wow Road
Corpus Christi, Texas 78413
(361) 420-6000
Tom.Barker@terracon.com

APPROVED AS TO LEGAL FORM

Assistant City Attorney (Date)
for City Attorney

ATTEST

Rebecca Huerta, City Secretary

EXHIBIT A

TERMS AND CONDITIONS TO GEOTECHNICAL AND CONSTRUCTION MATERIALS TESTING AGREEMENT

ARTICLE 1. SERVICES: Lab will:

- 1.1 Provide only those services requested by City Engineer that, in the opinion of Lab, lie within the technical or professional areas of expertise of Lab and which Lab is adequately staffed and equipped to perform.
- 1.2 Perform technical services under the supervision of a licensed professional engineer and in compliance with the basic requirements of the appropriate standards of the American Society for Testing and Materials, where applicable and other standards designated in writing by the City Engineer.
- 1.3 Promptly submit formal reports (printed and electronic copies) of tests, inspections and services performed indicating, where applicable, compliance with the Project specifications or other contract documents. Such reports must be complete and factual, citing the tests performed, methods employed, values obtained and parts of the structure of the Project area subjected to any testing.
- 1.4 Utilize testing equipment which has been calibrated according to applicable standards and, upon request, submit to the City Engineer or designee documentation of such calibration.
- 1.5 Secure representative samples of those materials that the City's contractor proposes to use which require testing, together with relevant data concerning such materials including the point of origin and supplier.
- 1.6 Consider reports to be confidential and distribute reports only to those persons, organizations or agencies specifically designated in writing by the City Engineer.
- 1.7 Pay salaries, wages, expenses, social security taxes, federal and state unemployment taxes and any other similar payroll taxes relating to the services.

ARTICLE 2. CITY RESPONSIBILITIES: City Engineer or designee will:

- 2.1 Provide Lab with all plans, specifications, addenda, change orders, approved shop drawings and other information for the proper performance of services by Lab.
- 2.2 Issue authorization in writing giving Lab free access to the Project site and to all shops or yards where materials are prepared or stored.
- 2.3 Designate in writing those persons or firms which will act as the City's representative with respect to Lab's services to be performed under this Agreement and which must be promptly notified by Lab when it appears that materials tested or inspected are in non-compliance. Only the City Engineer or designee has authority to transmit instructions, receive information and data and/or interpret and define the City's policies and decisions with respect to the Project. Lab acknowledges that certain City representatives may have different types of authority concerning the Project.
- 2.4 Advise Lab sufficiently in advance of any operations so as to allow for assignment of personnel by Lab for completion of the required services. Such advance notice will be in accordance with that established by mutual agreement of the parties.
- 2.5 Direct the Project contractor, either by the Construction Contract or direct written order, to:

- (a) Stop work at the appropriate times for Lab to perform contracted services;
- (b) Furnish such labor and all facilities needed by Lab to obtain and handle samples at the Project and to facilitate the specified inspection and tests;
- (c) Provide and maintain for use of Lab adequate space at the Project for safe storage and proper curing of test specimens that must remain on the Project site prior to, during and up to 60 days after testing.

ARTICLE 3. GENERAL CONDITIONS

- 3.1 Lab, by the performance of services covered hereunder, does not in any way assume, abridge or abrogate any of those duties, responsibilities or authorities with regard to the Project that, by custom or contract, are vested in the Project architects, design engineers or any other design agencies or authorities.
- 3.2 Lab is not authorized to supervise, alter, relax, enlarge or release any requirement of the Project specifications or other contract documents nor to approve or accept any portion of the work. Lab does not have the right of rejection or the right to stop the work. City Engineer will direct the Project contractor to stop work at appropriate times for Lab to conduct the sampling, testing or inspection of operations covered by the Agreement.

ARTICLE 4. FIELD MONITORING AND TESTING

- 4.1 City and Lab agree that Lab will be on-site to perform inspections for contracted services. The City and Lab also agree that Lab will not assume responsibility for Project contractor's means, methods, techniques, sequences or procedures of construction, and it is understood that the final services provided by Lab will not relieve the Project contractor of its responsibilities for performing the work in accordance with the Project plans and specifications. For the purposes of this Agreement, the word "inspection" is used to mean periodic observation of the work and the conducting of tests by Lab as specified in the Agreement. Continuous monitoring by Lab or its subcontractors does not mean that Lab is approving placement of materials. Inspection is not and should not be construed to be a warranty by Lab to the City or any other party.
- 4.2 Samples collected or tested by Lab remain the property of the City while in the custody of the Lab. Lab will retain the samples for a period of 60 days following the date of submission of any report related to the sample. Following the retention period, Lab will dispose of non-hazardous samples, and return hazardous, acutely toxic or radioactive samples and samples' containers and residues to City. City agrees to accept such samples and samples' containers.

ARTICLE 5. INSURANCE REQUIREMENTS

- 5.1 Lab must not commence work under this agreement until all required insurance has been obtained and such insurance has been approved by the City. Lab must not allow any subcontractor to commence work until all similar insurance required of any subcontractor has been obtained.
- 5.2 Lab must furnish to the Director of Engineering Services with the signed agreement (or amendment) a copy of Certificates of Insurance (COI) with applicable policy endorsements showing the following minimum coverage. **The City must be listed as an additional insured on the General Liability and Auto Liability policies, and a waiver of subrogation is required on all applicable policies. Endorsements must be provided with COI. Project name and or number must be listed in Description Box of COI.**

TYPE OF INSURANCE	MINIMUM INSURANCE COVERAGE
30-written day notice of cancellation, required on all certificates or by applicable policy endorsements	Bodily Injury and Property Damage Per occurrence - aggregate
Commercial General Liability including: 1. Commercial Broad Form 2. Premises – Operations 3. Products/ Completed Operations 4. Contractual Liability 5. Independent Contractors 6. Personal Injury- Advertising Injury	\$1,000,000 Per Occurrence \$2,000,000 Aggregate
AUTO LIABILITY (including) 1. Owned 2. Hired and Non-Owned 3. Rented/Leased	\$500,000 Combined Single Limit
PROFESSIONAL LIABILITY (Errors and Omissions)	\$1,000,000 Per Claim \$2,000,000 Aggregate (Defense costs must be outside policy limits) If claims made policy, retro date must be prior to inception of agreement, have extended reporting period provisions and identify any limitations regarding who is insured.
WORKERS' COMPENSATION (All States Endorsement if Company is not domiciled in Texas)	Statutory
Employer's Liability	\$500,000 /\$500,000 /\$500,000
POLLUTION LIABILITY <i>Required if boring, sampling or excavating > 5 ft below grade</i>	\$1,000,000 Per Claim

- 5.3 In the event of accidents of any kind related to this agreement, Lab must furnish the City with copies of all reports of any accidents within 10 days of the accident.
- 5.4 Applicable for paid employees, Lab must obtain workers' compensation coverage through a licensed insurance company. The coverage must be written on a policy and endorsements approved by the Texas Department of Insurance. The workers' compensation coverage provided must be in an amount sufficient to assure that all workers' compensation obligations incurred by the Lab will be promptly met. An All States Endorsement shall be required if Lab is not domiciled in the State of Texas.

- 5.5 Lab shall obtain and maintain in full force and effect for the duration of this Contract, and any extension hereof, at Lab's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A- VII. **Lab is required to provide City with renewal Certificates.**
- 5.6 Lab shall be required to submit a copy of the replacement certificate of insurance to City at the address provided below within 10 days of the requested change. Lab shall pay any costs incurred resulting from said changes. All notices under this Article shall be given to City at the following address:

City of Corpus Christi
Attn: Engineering Services
P.O. Box 9277
Corpus Christi, TX 78469-9277

- 5.7 **Lab agrees that with respect to the above required insurance, all insurance policies are to contain or be endorsed to contain the following required provisions:**
- (a) List the City and its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement, as respects operations, completed operation and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation policy and professional liability/Errors & Omissions policy;
 - (b) Provide for an endorsement that the "other insurance" clause shall not apply to the City of Corpus Christi where the City is an additional insured shown on the policy;
 - (c) Workers' compensation and employers' liability policies will provide a waiver of subrogation in favor of the City; and
 - (d) Provide thirty (30) calendar days advance written notice directly to City of any suspension, cancellation, non-renewal or material change in coverage, and not less than ten (10) calendar days advance written notice for nonpayment of premium.
- 5.8 Within five (5) calendar days of a suspension, cancellation, or non-renewal of coverage, Lab shall provide a replacement Certificate of Insurance and applicable endorsements to City. City shall have the option to suspend Lab's performance should there be a lapse in coverage at any time during this contract. Failure to provide and to maintain the required insurance shall constitute a material breach of this contract.
- 5.9 In addition to any other remedies the City may have upon Lab's failure to provide and maintain any insurance or policy endorsements to the extent and within the time herein required, the City shall have the right to order Lab to remove the exhibit hereunder, and/or withhold any payment(s) if any, which become due to Lab hereunder until Lab demonstrates compliance with the requirements hereof.
- 5.10 Nothing herein contained shall be construed as limiting in any way the extent to which Lab may be held responsible for payments of damages to persons or property resulting from Lab's or its subcontractor's performance of the work covered under this agreement.
- 5.11 It is agreed that Lab's insurance shall be deemed primary and non-contributory with respect to any insurance or self-insurance carried by the City of Corpus Christi for liability arising out of operations under this agreement.
- 5.12 It is understood and agreed that the insurance required is in addition to and separate from any other obligation contained in this agreement.

ARTICLE 6. CLAIMS

- 6.1 Claims arising from this Agreement shall be made in writing, sworn to and signed by an authorized representative. The responsibility to substantiate a claim rests with the party making the claim.
- 6.2 All negotiations pursuant to this Article are confidential and shall be treated as compromise and settlement negotiations for purposes of applicable rules of evidence.
- 6.3 In case of litigation between the parties, Lab and City agree that neither party shall be responsible for payment of attorney's fees pursuant to any law or other provision for payment of attorneys' fees. Both Parties expressly waive any claim to attorney's fees should litigation result from any dispute under this Agreement.
- 6.4 In case of litigation between the parties, Lab and City agree that they have knowingly waived and do hereby waive the right to trial by jury and have instead agreed, in the event of any litigation arising out of or connected to this Agreement, to proceed with a trial before the court, unless both parties subsequently agree otherwise in writing.

ARTICLE 7. SAFETY

City and Lab agree that, in accordance with the generally accepted construction practice, the Project's general contractor will be solely and completely responsible for working conditions on the Project, including safety of all persons and property during the performance of the work and for compliance with all municipal, state and federal laws, rules and regulations, including OSHA. The duty of Lab in providing services is not, therefore, to include any review of, or responsibility for, the adequacy of the Project's general contractor's safety measures in, on or near the Project site.



EXHIBIT B SCOPE OF WORK

GEOTECHNICAL AND CONSTRUCTION MATERIAL TESTING

Geotechnical Testing and Construction Material Testing – services that include specified geological and geotechnical field operations, laboratory testing and engineering analysis for various projects.

Geotechnical Engineering

The A/E shall perform geotechnical engineering services that include specified Geological and Geotechnical Field Operation, Testing Program and Engineering Analysis for various infrastructure construction projects identified in each task order.

Materials Engineering

The A/E shall perform and supervise all sampling, testing, inspection work, and related services for various infrastructure construction projects identified in each task order.

Engineering Reports for Geotechnical and Materials Engineering

The A/E will submit a Report of Findings for each task order. Reports may contain but are not limited to items such as:

- A description of the field exploration and laboratory tests
- maps of boring locations
- Boring logs
 - Note (provide narrative of) the location of the bores relative to the street section in the report. For example, was the bore in the middle of the center turn lane, in the outer westbound lane, between the 2 eastbound lanes, approximately 1-ft from the edge of the gutter in the eastbound lane, etcetera.
- A discussion of the engineering properties of the subsurface materials encountered
- Trench excavation design parameters
- OSHA soil type classification
- Pavement Section recommendations
 - Include asphalt pavement options
 - If a thick pavement section is recommended (including surface, base, & subgrade), provide alternative options to reduce the thickness (i.e. multiple geogrid layers, increased hotmix, etc.). Notify the City PM to discuss prior to finalizing the report.
 - Include narrative of benefits/risks of proposed components
 - Recommendations for prolonging/protecting the pavement sections (i.e. not driving on unprotected base, backfilling within 48-hrs to protect base).
- Design Parameters
 - 30 Year Design Life

December 2, 2020



Ms. Jennifer Rodriguez,
Contracts/Funds Administrator
City of Corpus Christi
P.O. Box 9277
Corpus Christi, Texas 78469-9277

Reference: RFQ 3178 – Geotechnical and Construction Material Testing Pricing

Dear Ms. Rodriguez:

We are very pleased to have been selected for the referenced RFQ and hereby submit our *revised* pricing structure per our conversation for the Scope of Work as stated in Paragraph 4.2 of the document. We will comply with the requirements as stated in same. Our attached pricing includes the following:

- Geotechnical Field Operations
- Geotechnical Laboratory Testing
- Construction Materials Field Testing and Observation
- Construction Materials Laboratory Testing
- Staff Rates
- TxDOT Test Methods (If Required)

We are committed to perform all project assignments safely, accurately, reliably, with experienced and trained personnel and communicate the results to you in a timely manner.

Please review the attached, and if you or your staff have any questions, don't hesitate to contact us.

Sincerely,
Terracon Consultants Inc.
(Firm Registration: TX F3272)



Tom Barker
Office Manager

Terracon Consultants, Inc. 3636 Wow Road, Corpus Christi, Texas 78413
P [361] 420-6000 F [361] 420-6001 terracon.com Texas Professional Engineers No. 3272

Environmental



Facilities



Geotechnical



Materials

2020 SCHEDULE OF FEES for GEOTECHNICAL ENGINEERING SERVICES CORPUS CHRISTI, TEXAS

Engineering and Support Staff

Personnel:	Hourly Rate:
CADD Technician/Draftsperson (As required only).....	\$55.00
Senior CADD Technician/Draftsperson (As required only)	\$65.00
Administrative Assistant.....	\$48.00
Drilling Logger.....	\$85.00
Laboratory Supervisor.....	\$75.00
Staff Engineer (Larger projects only).....	\$117.50
Project Engineer	\$150.00
Engineering Manager (As required only).....	\$180.00
Consultant, Project Principal	\$200.00
Expert Testimony (As required only)	\$295.00

Geotechnical Field Services

Drilling and Sampling Operations - Truck Mounted Drill Rig

Soil Borings, (sampling with 3-inch thin-wall tube sampler or 2-inch split barrel sampler; sampling continuously from surface to 10 feet; 5-foot intervals thereafter to 50 feet; 10- foot intervals thereafter below the 51-foot depth):

0 to 50 feet, per linear foot.....	\$17.00
51 to 100 feet, per linear foot.....	\$19.00
101 to 150 feet, per linear foot.....	\$23.00
Casing Installation/Removal (up to 10 feet), per linear foot.....	\$7.00
Wash or Auger Boring in Soil (no samples taken), per linear foot.....	\$8.00
With 3-inch tube sample, each	\$15.00
With 2-inch split barrel sample, each	\$20.00
Wash or Auger Boring in Rock (no samples taken), per linear foot.....	\$12.00
With 2-inch split barrel sample, each	\$20.00
With TxDOT Cone Test, each	\$20.00
With 2 or 3-inch NX core sample:	
Soft formation, per linear foot	\$20.00
Hard formation, per linear foot*	\$25.00
Core Bit Wear:	
Soft formation, per linear foot	\$0.50
Hard formation, per linear foot.....	\$1.00

Rock Coring (2 or 3-inch NX core barrel sampler):

Soft formation, per linear foot	
0 to 50 feet, per linear foot.....	\$22.00
51 to 100 feet, per linear foot.....	\$27.00
101 to 150 feet, per linear foot.....	\$35.00
Hard formation, per linear foot*	
0 to 50 feet, per linear foot.....	\$28.00
51 to 100 feet, per linear foot.....	\$33.00
101 to 150 feet, per linear foot.....	\$40.00
Core Bit Wear:	
Soft formation, per linear foot	\$0.50
Hard formation, per linear foot*	\$1.00

Hourly Drilling Rate:

3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00

Rig Standby:

3-man crew, per hour.....	\$332.50
2-man crew, per hour.....	\$250.00

Grouting of Test Borings (maximum 6-inch nominal diameter hole):

3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00
Materials, cost plus	15%

Standpipe/Observation Well Installation:

3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00
Materials, cost plus	15%

(Special sampling techniques (piston samples, etc.) On request

Damaged or Lost Samplers, cost plus 15%

Traffic Control, cost plus 15%

* For very hard rock formations such as granite, or unusual conditions such as karstic limestone, prices will be quoted upon request.

Drilling and Sampling Operations - All Terrain Vehicle

Soil Borings, (sampling with 3-inch thin-wall tube sampler or 2-inch split barrel sampler; sampling every 2 feet from surface to 10 feet; 5-foot intervals thereafter to 50 feet; 10- foot intervals thereafter below the 50-foot depth):

0 to 50 feet, per linear foot.....	\$15.00
51 to 100 feet, per linear foot.....	\$18.00
101 to 150 feet, per linear foot.....	\$23.00

Casing Installation/Removal (up to 10 feet), per linear foot..... \$9.00

Wash or Auger Boring in Soil (no samples taken), per linear foot.....	\$10.00
With 3-inch tube sample, each	\$15.00
With 2-inch split barrel sample, each	\$20.00
Hourly Drilling Rate:	
3-man crew, per hour.....	\$300.00
2-man crew, per hour.....	\$250.00
Rig Standby:	
3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00
Grouting of Test Borings (maximum 6-inch nominal diameter hole):	
3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00
Materials, cost plus	15%
Standpipe/Observation Well Installation:	
3-man crew, per hour.....	\$250.00
2-man crew, per hour.....	\$200.00
Materials, cost plus	15%
Special Sampling Techniques (piston samples, etc.)	On request
Damaged or Lost Samplers, cost plus	15%

Drilling and Sampling Operations - Truck Mounted Drill Rig on Barge

Soil Borings, (sampling with 3-inch thin-wall tube sampler or 2-inch split barrel sampler; sampling every 2-foot from surface to 10 feet; 5-foot intervals thereafter to 50 feet; 10-foot intervals thereafter below the 50-foot depth):

Hourly Drilling Rates:	
4-man crew, per hour.....	\$400.00
3-man crew, per hour.....	\$300.00
Rig Standby; Loading-Unloading of Drill Rig on Barge:	
4-man crew, per hour.....	\$250.00
3-man crew, per hour.....	\$200.00
Barge/Tug Boat Rental, cost plus.....	15%
Special Marine Insurance, cost plus.....	15%
Special Sampling Techniques (piston samples, etc.)	On Request
Damaged or Lost Samplers, cost plus	15%

Drilling and Sampling Operations - Interior Hydraulic Sampler

Soil Borings, (sampling with 3-inch thin-wall tube sampler; sampling continuously from surface/floor slab to 12 feet; 2 holes minimum):

0 to 12 feet, per hole*	\$600.00
Additional sampling below 12 feet, per foot.....	\$50.00
Coring through concrete slab (up to 6-inches):	
Concrete with river gravel, each	\$75.00
Concrete with limestone gravel, each.....	\$50.00
Materials, cost plus	15%

Hourly Drilling Rate:

3-man crew, per hour.....	\$120.00
2-man crew, per hour.....	\$80.00

Rig Standby:

3-man crew, per hour.....	\$120.00
2-man crew, per hour.....	\$80.00

Grouting of Test Borings (maximum 6-inch nominal diameter hole):

3-man crew, per hour.....	\$120.00
2-man crew, per hour.....	\$80.00
Materials, cost plus	15%

Damaged or Lost Samplers, cost plus	15%
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Mobilization, Travel Expenses and Site Access

Mobilization, Truck Mounted Drill Rig:

Local minimum charge.....	\$350.00
Out-of-town, per mile	\$4.00

Mobilization, All-Terrain Vehicle:

Local minimum charge.....	\$450.00
Out-of-town, per mile	\$5.00

Use of Additional Vehicle During Drilling:

Local minimum charge.....	\$100.00
Out-of-town, per mile	\$2.00

Per Diem, per man, per day (Drill Crew).....	\$150.00
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Drayage, Permits For Equipment, cost plus.....	15%
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Rental of Special Equipment for Site Access, etc., cost plus.	15%
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Soil Resistivity Surveys

Staff Geologist/Engineer, per hour	\$120.00
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Project Geologist/Engineer, per hour	\$130.00
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Resistivity Equipment, per day	\$300.00
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Other Sampling Techniques & Services not Shown	On request
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Geotechnical Laboratory Testing Services

Strength and Volume Change Tests

Unconfined Compression Tests:

Soil, each	\$60.00
Rock, each	\$70.00
Vane Shear Test, each	\$25.00
Pocket Penetrometer, each	\$5.00

Triaxial Tests:

Unconsolidated-Undrained, per stage	\$75.00
Consolidated-Undrained w/Pore Pressure Measurements, per stage	\$150.00
Consolidated-Undrained Cyclic Loading, per sample	\$400.00
Consolidated-Drained (Sands and Silts), per stage	\$125.00

Direct Shear Tests:

Consolidated-Drained, per stage	\$230.00
Consolidated-Drained, Residual Strength, per stage	\$400.00

One-Dimensional Swell Tests:

Free Swell (no load), each	\$60.00
Swell (with overburden load), each	\$75.00
Swell Pressure (multiple loading), per test	\$150.00

Consolidation Tests:

Maximum of seven load increments with unloading, per test	\$650.00
Additional load increments, each	\$50.00

Classification Tests

Liquid and Plastic Limits:

Single point test, each	\$85.00
Three-point test, each	\$95.00

Particle Size Analysis:

Sieve Analysis through No. 200 Sieve, each	\$100.00
Percent Finer than No. 200 Sieve (Washed), each	\$75.00
Hydrometer (Includes No. 200 Sieve), each	\$250.00

Other Tests and Miscellaneous Items

Water Content, each	\$10.00
Density of Undisturbed Samples:	
Soil, each	\$15.00
Rock, each	\$20.00
Specific Gravity, each	\$55.00
Organic Content, each	\$50.00
Pinhole Dispersion, each	\$325.00

Crumb Test, each	\$60.00
Electrical Resistivity, each	\$150.00
Redox, each	\$100.00
Sulfate Content, each	\$50.00
Chloride Content, each	\$50.00
pH Level, each	\$50.00
Permeability:	
Flexible Wall Test-Triaxial Cell, each	\$450.00
Falling Head, each	\$150.00
Moisture-Density Relationship, Standard or Modified:	
Soil (4 inch and 6-inch Mold), each	\$220.00
Soil with Gravel, Base Materials (6-inch Mold), each	\$225.00
Soil, Base Material with Chemical Admixtures (6-inch Mold), each	\$250.00
Lime modification optimum (using pH), each	\$85.00
Soil-lime mixture design (using plasticity index), each	\$250.00
Laboratory California Bearing Ratio (CBR) Tests, (excludes moisture-density relationship), each	\$150.00

2020 SCHEDULE OF FEES for CONSTRUCTION MATERIALS TESTING SERVICES CORPUS CHRISTI, TEXAS

Construction Materials Field Testing Services

Engineering Technician to Perform the Following Services/Tests:

Pick-up concrete test specimens or sampling materials, per hour	\$56.00
Concrete field monitoring & molding of cylinders, slump, air content, & temperature measurements, per hour	\$56.00
In-place nuclear moisture-density testing, per hour	\$56.00
In-place nuclear moisture-density gauge charge, per day	\$50.00
Reinforcing steel inspection, per hour	\$56.00
CMU observation and testing, per hour	\$56.00

Senior Engineering Technician to Perform the Following Services/Tests:

Full time earthwork observation, per hour	\$67.00
Field soil stabilization (lime or cement) per hour	\$67.00
Concrete or asphalt coring, per hour	\$67.00
plus core rig and equipment, per day	\$150.00
plus patching of holes, each	\$15.00
Foundation/Drilled Piers installation observation, per hour	\$67.00
Concrete and asphalt batch plant inspection, per hour	\$95.00
Windsor probe or Swiss hammer testing, per hour	\$95.00
plus Windsor probe or Schmidt hammer, per day (equipment)	\$75.00
plus Windsor probe shots, each	cost + 15%
Floor Flatness/Levelness testing, per hour	\$95.00
plus floor flatness dipstick, per day (equipment)	\$150.00

Steel and Welding Inspection: (minimum 4 hour charge)

Visual field welding inspection and welder qualification, per hour	\$125.00
Certified NDE inspector (Dye Penetrant/magnetic particle), per hour	\$125.00
plus Magnetic particle equipment, per day	\$150.00
Ultra Sound Testing, per hour	\$125.00
plus Ultra Sound equipment/consumables, per day	\$150.00

Transportation Charges (Applied In Addition to all Personnel Hourly Rates):

Vehicle trip charge	\$25
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Construction Materials Laboratory Testing Services

Particle size analysis:

Sieve analysis up to 200 sieve:

Dry, each (5 sieve maximum) \$50.00

Washed, each (5 sieve maximum) \$75.00

Percent finer than 200 sieve

(washed, soil only), each \$75.00

Atterberg limits \$75.00

Compression testing of concrete cylinders, each (4X8) \$15.00

Compression testing of concrete cylinders, each (6X12) \$20.00

Compression testing of CMU mortar cubes, each \$10.00

Compression testing of CMU grout prisms, each \$25.00

Flexural testing of concrete beams, each \$25.00

Curing, capping and compressive strength testing of concrete cores, each \$35.00

Moisture-density relationship, Proctor:

Soil (ASTM D-698), each (4" mold) \$220.00

Soil (ASTM D 1557), each (4" mold) \$230.00

Soil with gravel, base materials (6" mold) or THD, each \$225.00

Soil, base material with admixtures (6" mold), each \$250.00

Testing of bituminous materials:

Mixing and molding of specimens (set of 3) \$100.00

Molding specimens only (set of 3) \$100.00

Specific gravity (set of 3) \$100.00

Stability (set of 3) \$100.00

Extraction/Gradation \$200.00

Index of retained stability (C.O.E.), each \$150.00

Maximum theoretical specific gravity \$100.00

Preparation of samples/materials will be charged for all

laboratory tests, when applicable, on an hourly basis \$48.00

Engineering and Support Staff

Personnel:

Rate, Hour

Administrative Assistant \$48.00

Engineering Technician \$56.00

Senior Engineering Technician \$67.00

Laboratory Supervisor (as required only) \$75.00

Certified Steel/Welding Inspector \$125.00

CME Project Manager \$125.00

Staff Engineer (as required only) \$117.50

Consultant, Client Representative, Project Principal, P.E. \$185.00

TxDOT Test Methods (If Required)

Tex-410-A	each	\$275.00	Abrasion of Coarse Aggregate Using the Los Angeles Machine
Tex-433-A	each	\$95.00	Absorption and Dry Bulk Specific Gravity of Lightweight Coarse Agg.
Tex-438-A	each	\$350.00	Accelerated Polish Test for Coarse Aggregate
Tex-612-J	each	\$190.00	Acid Insoluble Residue for Fine Aggregate
TEX-112-E	per series	\$187.50	Admixing Lime to Reduce Plasticity Index of Soils
Tex-416-A	each	\$48.00	Air Content of Freshly Mixed Concrete by the Pressure Method
Tex-414-A	each	\$25.00	Air Content of Freshly Mixed Concrete by the Volumetric Method
TEX-111-E	each	\$60.00	Amount of Minus No. 200 Sieve Material of Soils
Tex-202-F	each	\$85.00	Apparent Specific Gravity of Material Finer Than 180 μ m (# 80) Sieve
Tex-202-F	each	\$85.00	Apparent Specific Gravity of Material Finer than No. 50 Sieve
TEX-116-E	each	\$225.00	Ball Mill Method for Determining the Disintegration of Flex Base Mtrl
TEX-107-E	each	\$35.00	Bar Linear Shrinkage for Soils
Tex-107-E	each	\$35.00	Bar Linear Shrinkage of Fine Aggregate
Tex-201-F	each	\$85.00	Bulk Specific Gravity and Water Absorption of Aggregate
TEX-104-E	each	\$80.00	Calculating the Liquid Limit of Soils
TEX-105-E	each	\$80.00	Calculating the Plastic Limit of Soils
Tex-106-E	each	\$45.00	Calculating the Plasticity Index of Soils
Tex-535-C	each	\$80.00	Calculating Viscosity from Penetration
Tex-245-F	each	\$200.00	Cantabro Loss
Tex-450-A	each	\$20.00	Capping Cylindrical Concrete Specimens
Tex-229-F	each	\$75.00	Combined HMA Cold-Belt Sampling and Testing Procedure
Tex-206-F	set of 3	\$115.00	Compacting Specimens Using the Texas Gyrotory Compactor (TGC)
Tex-419-A	each	\$60.00	Comp. Strength of Concrete Using Portions of Beams Broken in Flex.
Tex-418-A	each	\$28.00	Compressive Strength of Cylindrical Concrete Specimens
Tex-415-A	each	\$20.00	Concrete Slump
Tex-146-E	each	\$75.00	Conductivity Test for Field Detection of Sulfates in Soil
Tex-131-E	each	\$1,350.00	Consol. Undrained Triaxial Comp. Test for Undisturbed Soils(CU),multi
Tex-131-E	each	\$1,200.00	Consol. Undrained Triaxial Comp. Test for Undisturbed Soils(CU),single
Tex-217-F Part II	each	\$500.00	Degradation of Coarse Aggregate by Micro-Deval Abrasion
Tex-217-F Part III	each	\$95.00	Deleterious and Recycle Asphalt Shingle
Tex-204-F	each	\$2,500.00	Design of Bituminous Mixtures
TEX-113-E	test	\$290.00	Determination of Moisture Density Relations of Soils and Base
TEX-110-E	each	\$80.00	Determination of Particle Size Analysis of Soils Text (Part I)
TEX-110-E	each	\$80.00	Determination of Particle Size Analysis of Soils Text (Part II)
TEX-107-E	test	\$30.00	Determination of Shrinkage Factors of Soil Test
Tex-236-F	each	\$200.00	Determining Asph. Content from Asph. Paving Mixt. by Ignition Meth.
TEX-620-J	each	\$65.00	Determining Chloride and Sulfate Contents in Soils
Tex-442-A	each	\$25.00	Determining Compressive Strength of Grouts
Tex-423-A	each	\$40.00	Determining Concrete Thickness by Direct Measurement

Tex-460-A	each	\$100.00	Determining Crushed Face Particle Count
Tex-217-F	each	\$90.00	Determining Deleterious Mtrl. and Decantation Test for Coarse Agg.
Tex-413-A	each	\$95.00	Determining Deleterious Material In Mineral Aggregate
Tex-207-F (Part I)	each	\$50.00	Determining Density of Compacted Bituminous Mixtures
Tex-207-F (Part VI)	each	\$80.00	Determining Density of Compacted Bituminous Mixt. (Vacuum Meth)
Tex-207-F (Part VIII)	each	\$80.00	Determining Density of Permeable Friction Course (PFC) Mixtures
Tex-235-F	each	\$55.00	Determining Draindown Characteristics in Bituminous Mixtures
Tex-224-F	each	\$110.00	Determining Flakiness Index
Tex-280-F	each	\$150.00	Determining Flat and Elongated Particles
Tex-213-F	each	\$110.00	Determining Hydrocarbon-Volatile Content of Bituminous Mixtures
Tex-207-F (Part III)	each	\$65.00	Determining In-Place Density of Compacted Bitum. Mixt (Nucl. Meth)
Tex-207-F (Part VII)	each	\$80.00	Determining Longitudinal Joint Density Using a Density Testing Gauge
Tex-207-F (Part V)	each	\$150.00	Determining Mat Segregation Using a Density-Testing Gauge
Tex-125-E	each	\$100.00	Determining Modulus of Sub-grade Reaction (K Value)
TEX-103-E	each	\$15.00	Determining Moisture Content in Soil Materials
Tex-212-F	each	\$55.00	Determining Moisture Content of Bituminous Mixtures
Tex-423-A	each	\$45.00	Determining Pavement Thickness by Direct Measurement
Tex-405-A	each	\$65.00	Determining Percent Voids and Solids in Concrete
Tex-533-C	each	\$70.00	Determining Polymer Additive % in Polymer Modified Asph Cements
Tex-124-E	each	\$70.00	Determining Potential Vertical Rise
Tex-102-E	each	\$55.00	Determining Slaking Time
Tex-128-E	each	\$50.00	Determining Soil pH
Tex-145-E	each	\$130.00	Determining Sulfate Content in Soils - Colorimetric Method
Tex-111-E	each	\$50.00	Determining Amount of Mtrl in Soils Finer than 75 micro.(# 200) Sieve
Tex-107-E	each	\$45.00	Determining the Bar Linear Shrinkage of Soils
Tex-123-E	each	\$100.00	Determining the Drainage Factor of Soil Materials
TEX-108-E	each	\$60.00	Determining the Specific Gravity of Soils
Tex-404-A	each	\$65.00	Determining Unit Mass (Weight) of Aggregates
Tex-515-C			
AASHTO T78	each	\$190.00	Distillation of Cutback Asphalt Products
TEX-404-A	each	\$65.00	Dry Unit Weight
Tex-503-C			
AASHTO T51	each	\$120.00	Ductility of Asphalt Materials
Tex-510-C			
AASHTO T179	each	\$70.00	Effect of Heat and Air on Asphalt Materials (Thin-Film Oven Test)
Tex-530-C	each	\$120.00	Effect of Water on Bituminous Paving Mixtures
Tex-539-C	each	\$70.00	Elastic Recovery of Tensile Deformation Using a Ductilometer
Tex-115-E	each	\$55.00	Field Method for Determining In-Place Density of Soils & Base Mtrls
Tex-402-A	each	\$80.00	Fineness Modulus of Fine Aggregate
Tex-448-A	each	\$40.00	Flexural Strength of Concrete Using Simple Beam Third-Point Loading
Tex-519-C			
AASHTO T50	each	\$80.00	Float Test for Bituminous Materials
Tex-409-A	each	\$75.00	Free Moisture and Water Absorption in Aggregate for Concrete
Tex-135-E	each	\$250.00	Freezing and Thawing Tests of Compacted Soil-Cement Mixture

Tex-242-F	each	\$450.00	Hamburg Wheel-Tracking Test
Tex-226-F	set of 3	\$90.00	Indirect Tensile Strength Test
Tex-142-E	each	\$50.00	Laboratory Classification of Soils for Engineering Purposes
Tex-114-E	per test	\$285.00	Lab. Compaction Char. & Moisture-Density Relationship (Part I)
TEX-114-E	per test	\$285.00	Lab. Compaction Char. and Moisture-Density Relationship (Part II)
TEX-114-E	per test	\$285.00	Lab. Compaction Char. and Moisture-Density Relationship (Part III)
Tex-205-F	set of 3	\$145.00	Laboratory Method of Mixing Bituminous Mixtures
AASHTO T307	each	\$1,250.00	Laboratory Test, Resilient Modulus (fine-grained soils)
Tex-127-E	each	\$170.00	Lime Fly-Ash Compressive Strength Test Methods- Part 1
Tex-127-E	each	\$140.00	Lime Fly-Ash Compressive Strength Test Methods- Part 2
Tex-447-A	each	\$110.00	Making and Curing Concrete Test Specimens
Tex-141-E	each	\$60.00	Manual Procedure for Description and Identification of Soils
Tex-406-A	each	\$75.00	Mtrl Finer than 75 micro (No. 200) Sieve in Mineral Agg (Decant. Test)
Tex-422-A	hour	\$80.00	Measuring Temperature of Freshly Mixed Portland Cement Concrete
Tex-436-A	each	\$60.00	Measuring Texture Depth by the Sand Patch Method
Tex-129-E	each	\$140.00	Measuring the Resistivity of Soil Materials
Tex-140-E	each	\$35.00	Measuring Thickness of Pavement Layer
Tex-126-E	each	\$300.00	Molding, Testing, and Evaluating Bituminous Black Base Materials
Tex-424-A	each	\$300.00	Obtaining and Testing Drilled Cores of Concrete
Tex-408-A	each	\$80.00	Organic Impurities in Fine Aggregate for Concrete
Tex-110-E	each	\$90.00	Particle Size Analysis of Soils
Tex-246-F	each	\$125.00	Permeability or Water Flow of Hot Mix Asphalt
Tex-101-E	each	\$70.00	Preparing Soil and Flexible Base Materials for Testing
Tex -101-E	hour	\$75.00	Preparing Soil and Flex Base Mtrls for Testing (TxPAV or NICET Cert.)
AASHTO T 307-99	each	\$1,350.00	Resilient Modulus Testing of subgrade Soils
Tex-221-F	each	\$60.00	Sampling Agg for Bitum Mixt., Surface Treatments & Limest Rock Aspt
Tex-222-F	each	\$70.00	Sampling Bituminous Mixtures
Tex-400-A	hour	\$85.00	Sampling Flexible Base, Stone, Gravel, Sand, and Mineral Aggregates
Tex-407-A	each	\$90.00	Sampling of Freshly Mixed Concrete
Tex-203-F	each	\$130.00	Sand Equivalent
Tex-403-A	each	\$90.00	Saturated Surface-Dry Specific Gravity and Absorption of Aggregates
Tex-110-E	each	\$75.00	Sieve Analysis - Mechanical
Tex-200-F Part I	each	\$90.00	Sieve Analysis (Dry)
Tex-200-F	each	\$90.00	Sieve Analysis of Fine and Coarse Aggregate
Tex-200-F	each	\$90.00	Sieve Analysis of Fine and Water Absorption of Aggregates
Tex-130-E	each	\$175.00	Slurry Testing
Tex-505-C			
AASHTO T53	each	\$115.00	Softening Point of Bitumen (Ring and Ball Apparatus)
Tex-120-E	each	\$340.00	Soil-Cement Testing (Part I)
TEX-121-E	each	\$325.00	Soil-Lime Compressive Strength (Part II)
Tex-121-E	each	\$340.00	Soil-Lime Testing (Part I)
TEX-121-E	each	\$340.00	Soil-Lime Testing (Part III)
TEX 620-J	each	\$75.00	Soluble Sulfate Testing

Tex-411-A	each	\$400.00	Soundness of Aggregate Using Sodium Sulfate or Magnesium Sulfate
Tex-508-C	each	\$90.00	Specific Gravity
AASHTO T228			
Tex-509-C	each	\$165.00	Spot Test of Asphaltic Materials
AASHTO T102			
Tex-241-F	set of 2	\$135.00	Superpave Gyratory Compacting of Test Specimens of Bitum Mixtures
Tex-100-E	hour	\$45.00	Surveying and Sampling Soils for Highways
Tex-243-F	each	\$130.00	Tack Coat Adhesion
Tex-437-A	each	\$85.00	Test Flow of Grout Mixtures (Flow Cone Method)
Tex208F	each	\$70.00	Test for Stabilometer Value of Bituminous Mixtures (set of 3)
Tex-132-E	each	\$30.00	Texas Cone Penetration Test
Tex-227-F	each	\$95.00	Theoretical Maximum Specific Gravity of Bituminous Mixtures
Tex-244-F	each	\$175.00	Thermal Profile
TEX-117-E	each	\$1,950.00	Triaxial Compression for Disturbed Soils and Base Materials (Part I)
TEX-117-E	each	\$1,650.00	Triaxial Compression for Disturbed Soils and Base Materials (Part II)
Tex-117-E	each	\$1,950.00	Triaxial Compression Test for Disturbed Soils and Base Materials
Tex-118-E	each	\$140.00	Triaxial Compression Test for Undisturbed Soils
Tex-472-A	each	\$230.00	Uniformity of Concrete
Tex-417-A	each	\$65.00	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

COMPLETE PROJECT NAME
Project No. XXXX
Invoice No. 12345
Invoice Date 01/01/2017

	Total			Current	Previous	Total	Remaining	Percent
	Contract	Amd No. 1	Amd No. 2	Contract	Invoice	Invoice	Balance	Complete
Basic Services:								
Preliminary Phase	\$1,000.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	\$0.00	100.0%
Design Phase	\$2,000.00	\$1,000.00	\$0.00	\$3,000.00	\$1,000.00	\$1,500.00	\$1,500.00	50.0%
Bid Phase	\$500.00	\$0.00	\$250.00	\$750.00	\$0.00	\$0.00	\$750.00	0.0%
Construction Phase	\$2,500.00	\$0.00	\$1,000.00	\$3,500.00	\$0.00	\$0.00	\$3,500.00	0.0%
Subtotal Basic Services	\$6,000.00	\$1,000.00	\$1,250.00	\$8,250.00	\$1,000.00	\$2,500.00	\$5,750.00	30.3%
Additional Services:								
Permitting	\$2,000.00	\$0.00	\$0.00	\$2,000.00	\$500.00	\$500.00	\$1,500.00	25.0%
Warranty Phase	\$0.00	\$1,120.00	\$0.00	\$1,120.00	\$0.00	\$0.00	\$1,120.00	0.0%
Inspection	\$0.00	\$0.00	\$1,627.00	\$1,627.00	\$0.00	\$0.00	\$1,627.00	0.0%
Platting Survey	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
O & M Manuals	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
SCADA	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Subtotal Additional Services	\$2,000.00	\$1,120.00	\$1,627.00	\$4,747.00	\$500.00	\$500.00	\$4,247.00	10.5%
Summary of Fees:								
Basic Services Fees	\$6,000.00	\$1,000.00	\$1,250.00	\$8,250.00	\$1,000.00	\$2,500.00	\$5,750.00	30.3%
Additional Services Fees	\$2,000.00	\$1,120.00	\$1,627.00	\$4,747.00	\$500.00	\$500.00	\$4,247.00	10.5%
Total of Fees	\$8,000.00	\$2,120.00	\$2,877.00	\$12,997.00	\$1,500.00	\$3,000.00	\$9,997.00	23.1%

Notes:

A PURCHASE ORDER NUMBER MUST BE INCLUDED ON ALL INVOICES AND INVOICE CORRESPONDENCE. FAILURE TO COMPLY WILL RESULT IN DELAYED PAYMENT OF INVOICES.

If needed, update this sample form based on the contract requirements.

If applicable, refer to the contract for information on what to include with time and materials (T&M).



City of
Corpus
Christi

SUPPLIER NUMBER
TO BE ASSIGNED BY CITY
PURCHASING DIVISION

CITY OF CORPUS CHRISTI DISCLOSURE OF INTEREST

City of Corpus Christi Ordinance 17112, as amended, requires all persons or firms seeking to do business with the City to provide the following information. Every question must be answered. If the question is not applicable, answer with "NA". See reverse side for Filing Requirements, Certifications and definitions.

COMPANY NAME: Terracon Consultants, Inc.

P. O. BOX: _____

STREET ADDRESS: 3606 Waco Road **CITY:** Corpus Christi **ZIP:** 78413

FIRM IS: 1. Corporation ☒ 2. Partnership ☐ 3. Sole Owner ☐
4. Association ☐ 5. Other ☐

DISCLOSURE QUESTIONS

If additional space is necessary, please use the reverse side of this page or attach separate sheet.

1. State the names of each "employee" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Job Title and City Department (if known)
N/A	
_____	_____
_____	_____
_____	_____

2. State the names of each "official" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Title
N/A	
_____	_____
_____	_____
_____	_____

3. State the names of each "board member" of the City of Corpus Christi having an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Board, Commission or Committee
N/A	
_____	_____
_____	_____
_____	_____

4. State the names of each employee or officer of a "consultant" for the City of Corpus Christi who worked on any matter related to the subject of this contract and has an "ownership interest" constituting 3% or more of the ownership in the above named "firm."

Name	Consultant
N/A	
_____	_____
_____	_____
_____	_____

FILING REQUIREMENTS

If a person who requests official action on a matter knows that the requested action will confer an economic benefit on any City official or employee that is distinguishable from the effect that the action will have on members of the public in general or a substantial segment thereof, you shall disclose that fact in a signed writing to the City official, employee or body that has been requested to act in the matter, unless the interest of the City official or employee in the matter is apparent. The disclosure shall also be made in a signed writing filed with the City Secretary. [Ethics Ordinance Section 2-349 (d)]

CERTIFICATION

I certify that all information provided is true and correct as of the date of this statement, that I have not knowingly withheld disclosure of any information requested; and that supplemental statements will be promptly submitted to the City of Corpus Christi, Texas as changes occur.

Certifying Person: Tom Barker **Title:** Office Manager
(Type or Print)

Signature of Certifying Person: Tom Barker **Date:** 12/2/2020

DEFINITIONS

- a. "Board member." A member of any board, commission, or committee appointed by the City Council of the City of Corpus Christi, Texas.
- b. "Economic benefit". An action that is likely to affect an economic interest if it is likely to have an effect on that interest that is distinguishable from its effect on members of the public in general or a substantial segment thereof.
- c. "Employee." Any person employed by the City of Corpus Christi, Texas either on a full or part-time basis, but not as an independent contractor.
- d. "Firm." Any entity operated for economic gain, whether professional, industrial or commercial, and whether established to produce or deal with a product or service, including but not limited to, entities operated in the form of sole proprietorship, as self-employed person, partnership, corporation, joint stock company, joint venture, receivership or trust, and entities which for purposes of taxation are treated as non-profit organizations.
- e. "Official." The Mayor, members of the City Council, City Manager, Deputy City Manager, Assistant City Managers, Department and Division Heads, and Municipal Court Judges of the City of Corpus Christi, Texas.
- f. "Ownership Interest." Legal or equitable interest, whether actually or constructively held, in a firm, including when such interest is held through an agent, trust, estate, or holding entity. "Constructively held" refers to holdings or control established through voting trusts, proxies, or special terms of venture or partnership agreements."
- g. "Consultant." Any person or firm, such as engineers and architects, hired by the City of Corpus Christi for the purpose of professional consultation and recommendation.