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Austin, Texas 78754
Phone: 512-977-1800
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Williamson County
301 SE Inner Loop, St. 106
Georgetown, Texas 78626

Proposal No. 04.30112070
January 13, 2012

Attention: Mr. Robert Daigh, P.E.

**Proposal for Construction Materials Testing Services
Williamson County Emergency Services Operations Center
Georgetown, Texas**

Introduction

We are pleased to submit this proposal for providing on-site construction materials testing services for the above referenced project. Project plans and specifications were available for our review at <ftp://ftp.parsons.com/WC%20ESOC/dlprint/>. In addition, Fugro provided geotechnical design services on this project (refer to Fugro Report No. 04.30101059, dated May 20, 2011).

In general, the project includes construction of a 29,760 SF structure and associated pavements and drainage pond. The building slab will be constructed free of grade, and will consist of precast decking supported by drilled piers. The building will be steel framed with a CMU exterior. The project is located at the northwest quadrant of the intersection of Southwestern Boulevard and Georgetown Inner Loop in Georgetown, Texas. In this proposal we present a scope of services, a fee estimate and unit price schedules.

Scope of Services

We anticipate that our scope of services will consist of:

- Earthwork Testing;
- Drilled Pier Observation;
- Concrete Reinforcing Steel Observation;
- Concrete Testing;
- Structural Masonry Testing;
- Welding and Bolting Inspection; and
- Asphalt Testing.



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For placement and compaction of fill, backfill, natural subgrade, and pavement base material, we will provide a soil technician when requested to perform required field density tests to monitor the contractor's compliance with specifications. Laboratory tests will consist of Atterberg limits, gradation analyses, and moisture density relationships.

For drilled pier or foundation construction, our technician will verify that the piers or footings have been installed to the required penetration of the proper bearing stratum. He will also verify that the excavation(s) has been properly cleaned, that piers are within plumbness requirements, and that casing is used, if required.

When requested, we will observe the concrete reinforcement prior to structural concrete placements. Bar size, spacing, splicing, cleanliness, and cover will be examined for compliance with the approved structural drawings.

When requested, our duties for cast-in-place concrete monitoring will be slump testing, molding compression test cylinders, and concrete compression testing. Concrete will be observed for slump at the point of placement, and one set of concrete cylinders will be cast at the specified frequency. Air content will be tested for concrete exposed to weather. Our fees do not include control of the initial curing environment of the compression test cylinders.

When requested for structural steel assemblies, a Certified Welding Inspector (CWI) will perform visual observation of all field-welded connections. Field-bolted connections will be checked for proper torque. All critical full-penetration field welds can be tested by ultrasonic techniques if necessary. The construction contractor(s) will provide manlifts, scaffolding, or other suitable access to all field connections requiring inspection.

When requested, we will observe concrete masonry unit wall construction to verify size and location of reinforcement and proper placement of grout. Mortar cubes and grout prisms will be cast to verify compliance with strength requirements.

When requested, our technicians will also perform laboratory testing on the hot mix asphaltic concrete (HMAC). We will cut cores for determining field density and in-place thickness. Laboratory testing will include molding of test specimens, laboratory densities, voids in mineral aggregate, determination of maximum theoretical density, asphalt content, and gradation.



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Our field technician(s) will immediately report results of field observations directly to the on-site job superintendent and owner's representative. We will assist the superintendent in identification and correction of any observed non-compliances with project specifications. In no case will our technician direct the contractor's operations, waive specifications, or make final acceptance of the contractor's work. Written reports will be transmitted electronically.

The scope of services and estimate proposed herein does not include:

- Inspection of precast concrete, fabricated steel, or any other items at off-site suppliers and fabrication plants; it is assumed that suppliers and fabrication plants employed by the contractor have their own QA/QC program to satisfy the project requirements.
- Standby time, trips to site for cancellations without notice, retesting, reinspection, or testing services for the contractor's convenience or internal Quality Control.

Terms and Conditions

Our general conditions for materials engineering and technical services are presented on the attached Schedule 40.01, which is incorporate herein by reference. Construction materials testing fees are included on Fee Schedule CMT-2011. Both schedules are attached. The project will be billed monthly on the basis of this fee schedule.[WHCH1]

Materials testing services are for quality control purposes only. In no way are our personnel responsible for the job site safety of others, nor do they have stop-work authority. However, our personnel will conduct their work in a safe, workman-like manner, and will observe work-site safety requirements.

The following statement is required by Fugro's Insurance Company. Fugro's scope of work does not include the investigation, detection, or design related to the presence of any Biological Pollutants. The term "Biological Pollutants" includes, but is not limited to, mold, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms.

Not to Exceed Fee

Testing costs will vary depending on the construction schedule, project sequencing, overlapping of work, weather, and other factors. Our services will be provided on a call-out basis and will be billed in accordance with the attached fee schedule. . The maximum amount payable



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for services and allowed expenses under this agreement, without modification, shall not exceed \$45,633.25.

To indicate acceptance of our proposal, please have the signature block below signed by a duly authorized person in the spaces provided and return the attached copy to us for our files.

We appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you have any questions, please call.

FUGRO CONSULTANTS, INC.

TBPE Firm Registration No. F-299

A handwritten signature in black ink, appearing to read "John S. Landwermeyer", is written over a horizontal line.

John S. Landwermeyer, P.E.
Senior Project Manager

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Attachments

[WHCH2]

CLIENT:

A handwritten signature in blue ink, appearing to read "Dan A. Gattis", is written over a horizontal line.

Authorizing Signature

Judge Dan A. Gattis

Name & Title

Williamson County, Texas

Entity

1-27-2012

Date



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Document Distribution

Please indicate the addresses that you wish to have test reports distributed to.

Owner: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

Contractor: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

Architect: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

Engineer: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

Other: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

Other: _____
Attn: _____
Attn: _____

Tele: _____
E-Mail: _____
E-Mail: _____

p04.30112070.doc



GENERAL CONDITIONS FOR TECHNICAL SERVICES

1. Parties to This Agreement
CLIENT as used herein is the entity who authorizes performance of services by Fugro Consultants, Inc. (FUGRO) under the conditions stated herein. FUGRO as used herein includes, Fugro Consultants, Inc., its employees and officers, and its subcontractors and sub-consultants (including affiliated corporations).
2. On-site Responsibilities and Risks
 - 2.1 Right-of-Entry. Unless otherwise agreed, CLIENT will furnish unfettered rights-of-entry and obtain permits as required for FUGRO to perform the fieldwork.
 - 2.2 Damage to Property. FUGRO will take reasonable precautions to reduce damage to land and other property caused by FUGRO's operations. However, CLIENT understands that damage may occur and FUGRO's fee does not include the cost of repairing such damage. If CLIENT desires FUGRO to repair and/or pay for damages, FUGRO will undertake the repairs and add the pre-agreed cost to FUGRO's fee.
 - 2.3 Toxic and Hazardous Materials. CLIENT will provide FUGRO with all information within CLIENT's possession or knowledge as to the potential occurrence of toxic or hazardous materials, or Biological Pollutants (as defined in 9. below) at the site being investigated. If unanticipated toxic or hazardous materials, or biological pollutants are encountered, FUGRO reserves the right to demobilize FUGRO's field operations at CLIENT's expense. Remobilization will proceed following consultation with FUGRO's safety coordinator and CLIENT's acceptance of proposed safety measures and fee adjustments.
 - 2.4 Utilities and Pipelines. While performing FUGRO's fieldwork, FUGRO will take reasonable precautions to avoid damage to subterranean and subaqueous structures, pipelines, and utilities.
 - 2.5 Site Safety. FUGRO is not responsible for the job site safety of others, nor does FUGRO have stop-work authority over work by others. However, FUGRO will conduct its work in a safe, workman-like manner, and will observe the work-site safety requirements of CLIENT that have been communicated to FUGRO in writing.
3. Standard of Care
 - 3.1 FUGRO will perform its services consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same location.
 - 3.2 CLIENT acknowledges that conditions may vary from those encountered at the location where borings, surveys, or explorations are made and that FUGRO's data, interpretations, and recommendations are based solely on the information available to FUGRO, and FUGRO is not responsible for the interpretation by others of the information developed.
4. Limitation of Remedies
To the greatest extent permitted by law, CLIENT's sole remedy against FUGRO for claims and liabilities in any way arising out of or directly or indirectly related to FUGRO's work for CLIENT will not exceed an aggregate limit of \$1.0 million regardless of the legal theory under which remedy is sought, whether based on negligence (whether sole or concurrent, active or passive), breach of warranty, breach of contract, strict liability or otherwise. In the event CLIENT does not wish to limit FUGRO's remedy to this sum, and if CLIENT requests in writing prior to acceptance of this Agreement, FUGRO agrees to negotiate a greater remedy amount in exchange for an increase in scope and fee appropriate to the project and remedy risks involved.
5. Invoices and Payment
At FUGRO's discretion, invoices will be submitted at the completion of task elements, or monthly for services rendered. Invoices shall be paid by CLIENT within thirty (30) days from the date of the Williamson County Auditor's receipt of an invoice. Interest charges for any late payments shall be paid by CLIENT in accordance with Texas Government Code Section 2251.025. More specifically, the rate of interest that shall accrue on a late payment is the rate in effect on September 1 of CLIENT's fiscal year in which the payment becomes due. The said rate in effect on September 1 shall be equal to the sum of one percent (1%); and (2) the prime rate published in the Wall Street Journal on the first day of July of the preceding fiscal year that does not fall on a Saturday or Sunday. In the event that a discrepancy arises in relation to an invoice, such as an incorrect amount on an invoice or a lack of documentation that is required to be attached to an invoice to evidence the amount claimed to be due, CLIENT shall notify FUGRO of such an invoice of the discrepancy. Following CLIENT's notification of any discrepancy as to an invoice, FUGRO must resolve the discrepancy and resubmit a corrected or revised invoice, which includes all required support documentation, to the Williamson County Auditor. CLIENT shall pay the invoice within thirty (30) days from the date of the Williamson County Auditor's receipt of the corrected or revised invoice. CLIENT payment of an invoice that contains a discrepancy shall not be considered late, nor shall any interest begin to accrue until the thirty-first (31st) day following the Williamson County Auditor's receipt of the corrected or revised invoice.
6. Data, Records, Work Product and Report(s), and Samples
Data, Records, Work Product and Report(s) are FUGRO's property. All pertinent records relating to FUGRO's services shall be retained for a minimum of two (2) years after completion of the work. CLIENT or its duly authorized representatives, shall have access to and the right to examine and photocopy any and all books, documents, papers and records of FUGRO, which are directly pertinent to the services to be performed under this Agreement, at CLIENT'S sole cost, for the purposes of making audits, examinations, excerpts, and transcriptions. FUGRO agrees that CLIENT shall have reasonable access during normal working hours to all necessary FUGRO facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. CLIENT shall give FUGRO reasonable advance notice of intended audits. FUGRO will retain samples of soil and rock for a minimum of 30 days after submission of FUGRO's report unless CLIENT advises FUGRO otherwise. Upon CLIENT's written request, for an agreed charge FUGRO will store or deliver the samples in accordance with CLIENT's instructions.
7. Indemnification
FUGRO SHALL INDEMNIFY, DEFEND, PROTECT, AND SAVE HARMLESS WILLIAMSON COUNTY, ITS OFFICIALS AND EMPLOYEES AND ITS AGENTS AND AGENTS' EMPLOYEES FROM AND AGAINST ALL CLAIMS, SUITS, ACTIONS, LIABILITY, LOSS, DAMAGE, REASONABLE ATTORNEY'S FEES, COSTS, AND EXPENSES (INCLUDING, BUT NOT LIMITED TO EXPENSES RELATED TO EXPERT WITNESSES) OF ANY KIND WHATSOEVER, TO THE EXTENT ARISING FROM ANY NEGLIGENT ACT, ERROR OR OMISSION OF FUGRO OR ANY OF ITS EMPLOYEES AND ITS AGENTS AND AGENTS' EMPLOYEES IN CONNECTION WITH THE PERFORMANCE OF SERVICES UNDER THIS AGREEMENT.
8. Consequential Damages
Notwithstanding any other provision of this Agreement, CLIENT and FUGRO waive and release any claim against the other for loss of revenue, profit or use of capital, loss of services, business interruption and/or delay, loss of product, production delays, losses resulting from failure to meet other contractual commitments or deadlines, downtime of facilities, or for any special, indirect, delay or consequential damages resulting from or arising out of this Agreement, or as a result of or in connection with the work, and whether based on negligence (whether sole or concurrent, active or passive), breach of warranty, breach of contract, strict liability or otherwise.
9. Biological Pollutants
FUGRO's scope of work does not include the investigation, detection, or design related to the presence of any Biological Pollutants. The term "Biological Pollutants" includes, but is not limited to, mold, fungi, spores, bacteria, and viruses, and the byproducts of any such biological organisms. CLIENT agrees that FUGRO will have no liability for any claim regarding bodily injury or property damage alleged, arising from, or caused directly or



indirectly by the presence of or exposure to any Biological Pollutants. If CLIENT requests in writing prior to acceptance of this Agreement, FUGRO will negotiate a greater limitation amount, and remove CLIENT's responsibilities, in exchange for an increase in fee to develop an expanded scope of work to provide biological pollutant protection.

10. Insurance

During the term of this Agreement, FUGRO agrees to provide and maintain the following Insurance:

- A. Worker's Compensation in accordance with statutory requirements.
- B. Commercial General Liability Insurance with a combined minimum Bodily Injury and Property Damage limits of \$1.0 Million per occurrence and \$2.0 Million in the aggregate, including coverage on same for independent subcontractor(s).
- C. Automobile Liability Insurance for all owned, non-owned, and hired vehicles with combined minimum limits for Bodily Injury and Property Damage limits of \$1.0 Million per occurrence and \$2.0 Million in the aggregate. FUGRO shall require any subcontractor(s) to provide Automobile Liability Insurance in the same minimum amounts.
- D. Professional Liability Errors and Omissions Insurance in the amount of \$1.0 Million.

WILLIAMSON COUNTY SHALL BE NAMED AS AN ADDITIONAL INSURED UNDER THE COVERAGES REQUIRED ABOVE, EXCEPT FOR WORKER'S COMPENSATION AND PROFESSIONAL LIABILITY INSURANCE.

FUGRO shall not commence any field work under this Agreement until it has obtained all required insurance and such insurance has been approved by County. FUGRO shall not allow any subcontractor(s) to commence work to be performed in connection with this Agreement until all required insurance has been obtained and approved. Approval of the insurance by County shall not relieve or decrease the liability of FUGRO hereunder.

The required Insurance must be written by a company approved to do business in the State of Texas with a financial standing of at least an A-rating, as reflected in Best's insurance ratings or by a similar rating system recognized within the insurance industry at the time the policy is issued. FUGRO shall furnish County with a certification of coverage issued by the insurer. FUGRO shall not cause any insurance to be canceled nor permit any insurance to lapse. Fugro will provide Williamson County with thirty (30) days' written Notice prior to the effective date of any cancellation or material change to any of the insurance coverages required above.

It is the intention of the County, and agreed to and hereby acknowledged by FUGRO, that no provision of this Agreement shall be construed to require the County to submit to mandatory arbitration or mediation in the settlement of any claim, cause of action or dispute, except as specifically required in direct connection with an insurance claim or threat of claim under an insurance policy required by this Agreement which absolutely requires arbitration or mediation of such claim, or as otherwise required by law or a court of law with jurisdiction over the provisions of this Agreement.

11. Acceptance of Agreement

These GENERAL CONDITIONS have been established in large measure to allocate certain risks between CLIENT and FUGRO. FUGRO will not initiate service without formal agreement on the terms and conditions set forth in these GENERAL CONDITIONS. Execution by both parties of FUGRO's proposal shall be considered by both parties to constitute formal acceptance of all terms and conditions of these GENERAL CONDITIONS. Furthermore, all preprinted terms and conditions on CLIENT's purchase order or purchase order acknowledgment forms are inapplicable to these GENERAL CONDITIONS and FUGRO's involvement in CLIENT's project.

12. Termination of Contract

CLIENT and FUGRO may terminate services at any time upon ten (10) days written notice. In the event of termination, CLIENT agrees to fully compensate FUGRO for services performed including allowed reimbursable expenses to the termination date, as well as allowed demobilization expenses. Either party may terminate services without waiving any claims or incurring any penalty for exercising such termination right.

13. Venue and Governing Law

Each party to this Agreement hereby agrees and acknowledges that venue and jurisdiction of any suit, right, or cause of action arising out of or in connection with this Agreement shall lie exclusively in either Williamson County, Texas or in the Austin Division of the Western Federal District of Texas, and the parties hereto expressly consent and submit to such jurisdiction. Furthermore, except to the extent that this Agreement is governed by the laws of the United States, this Agreement shall be governed by and construed in accordance with the laws of the State of Texas, excluding, however, its choice of law rules.

14. Relationship of the Parties

Each party to this Agreement, in the performance of this Agreement, shall act in an individual capacity and not as agents, employees, partners, joint ventures or associates of one another. The employees or agents of one party shall not be deemed or construed to be the employees or agents of the other party for any purposes whatsoever.

15. No Waiver of Immunities

Nothing in this Agreement shall be deemed to waive, modify or amend any legal defense available at law or in equity to CLIENT, its past or present officers, employees, or agents, nor to create any legal rights or claim on behalf of any third party. CLIENT does not waive, modify, or alter to any extent whatsoever the availability of the defense of governmental immunity under the laws of the State of Texas and of the United States.



FEES FOR CONSTRUCTION MATERIALS TESTING SERVICES

		Regular Time ⁽¹⁾	Overtime ⁽²⁾
1. Field Technicians			
1.1	Technician (NICET Level I or equivalent)	\$43.00/hr	\$ 53.00/hr
1.2	Senior Technician (NICET Level II, TxDOT Level 1A/1B, Associate Welding Inspector, or equivalent)	\$48.00/hr	\$ 58.00/hr
1.3	Senior Supervising Technician (NICET Level III, TxDOT Level II, or equivalent)	\$85.00/hr	\$ 95.00/hr
1.4	Certified Welding Inspector	\$72.00/hr	\$ 82.00/hr
2. Field Testing and Equipment			Unit Rate
2.1	Transportation (Minimum \$0.585/mile) <i>Rate authorized by the IRS</i>		\$ 42.00/trip
2.2	Nuclear Density Tests (In addition to technician time)		\$ 14.00/test
2.3	Torque Wrench		\$ 20.00/day
2.4	Dye Penetrant & Magnetic Particle Supplies		Cost + 15%
2.5	Ultrasonic Testing Equipment		\$ 20.00/hr
2.6	Asphalt Coring Equipment		\$ 20.00/hr
2.7	Concrete Coring Equipment		\$ 20.00/hr + bit charge
2.8	Concrete Core Bit Charges		
2.8.1	3 inch-diameter Core		\$ 2.00/inch
2.8.2	4 inch-diameter Core		\$ 3.00/inch
2.8.3	6 inch-diameter Core		\$ 5.00/inch
	(Other sizes quoted upon request)		
2.9	Floor Flatness/Floor Levelness equipment (ASTM E1155)		\$ 100.00/day
2.10	Air Content of fresh concrete (ASTM C173, C231)		\$ 15.00/ea
2.11	Unit Weight of fresh concrete (ASTM C138)		\$ 30.00/ea
2.12	Soil-Lime Field Gradation (TEX-101-E, Part III)		\$ 30.00/ea
3. Laboratory Testing - Soil			
3.1	Natural Moisture Content (TEX-103-E)		\$ 15.00/ea
3.2	Atterberg Limits (TEX-104, 105, 106-E)		\$ 55.00/ea
3.3	Sieve Analysis - Soil (Nos. 4, 40, and 200, ASTM D422)		\$ 55.00/ea
3.4	Percent Passing No. 200 Sieve (TEX-111-E)		\$ 45.00/ea
3.5	Moisture Density Relationship (ASTM D 698), (ASTM D 1557), (TEX-113-E), (TEX-114-E)		\$ 210.00/ea
3.6	Texas Triaxial Compression Test on Base Material (TEX-117-E Part II)		\$1,050.00/set of 7
3.7	Wet Ball Mill (TEX-116-E)		\$ 150.00/ea
3.8	Permeability of Silt or Clay (ASTM D 5084)		\$ 250.00/ea
3.9	Sample Remolding		\$ 50.00/ea
3.10	Sample Preparation (Soils with P.I. > 25, or TEX-101-E)		\$ 50.00/sample
3.11	Soil pH (TEX-128-E)		\$ 55.00/ea
3.12	Soil-Lime pH series (6 points, TEX-121-E, Part III)		\$ 195.00/set
3.13	Soluble Sulfates (TEX-145-E)		\$ 80.00/ea
3.14	Hydrometer (ASTM D422)		\$ 200.00/ea
4. Laboratory Tests - Concrete and Cement			
4.1	Concrete Mix Design		Quoted on Request
4.2	Aggregate Sieve Analysis (ASTM C136)		\$ 50.00/ea



4.3	Specific Gravity of Aggregate (ASTM C127, 128)	\$ 50.00/ea
4.4	Absorption of Aggregate (ASTM C127, 128)	\$ 50.00/ea
4.5	Unit Weight of Aggregate (ASTM C29)	\$ 50.00/ea
4.6	Concrete Cylinder Compressive Strength (ASTM C39)	\$ 17.00/ea
4.7	Beam Flexural Strength (ASTM C 78)	\$ 40.00/ea
4.8	Mortar Cube Compressive Strength (ASTM C780)	\$ 17.00/ea
4.9	Grout Specimen Compressive Strength (ASTM C1019)	\$ 40.00/ea
4.10	Concrete Masonry Unit Strength (ASTM C140)	\$ 75.00/ea
4.11	Concrete Masonry Unit Prism Strength (ASTM C1314)	\$ 150.00/ea
4.12	Drilled Core Compressive Strength (ASTM C42)	\$ 50.00/ea
5.	Laboratory Testing - Asphalt and Roofing	
5.1	Mix Design (Hveem or Marshall Method)	Quoted on Request
5.2	Molding Test Specimens, 3 per set (TEX-206-F), Bulk Density (TEX-207-F), and Stability (TEX-208-F)	\$ 110.00/set
5.3	Determine Maximum Theoretical Density (TEX-227-F)	\$ 60.00/ea
5.4	Stripping Test	\$ 75.00/ea
5.5	Asp Content (with correction) and Gradation (TEX-236-F, 200-F), oven	\$ 235.00/ea
5.6	Asp Content (w/out correction) and Gradation (TEX-236-F, 200-F), oven	\$ 200.00/ea
5.7	Bulk Specific Gravity of Asphalt Core (TEX-207-F)	\$ 40.00/ea
5.8	Roof Ballast Sieve Analysis	\$ 50.00/ea
5.9	Oven Dried Moisture Content of Roofing Materials	\$ 25.00/ea
5.10	Asphalt Content and Gradation (ASTM D2172), extraction	\$ 350.00/ea
6.	Laboratory Testing - Structural Steel	
6.1	Weld Procedure and Welder Qualification Testing Rates	Quoted on Request
6.2	Laboratory Density of Field Cut Fireproofing	\$ 40.00/ea
7.	Report Preparation	
Test report preparation, review, and initial electronic distribution will be invoiced at a flat rate of 5% of total fees invoiced. Special requests for archived report retrieval, re-distribution, faxing, hard-copy mailing, and preparation of engineered reports and submittals will be invoiced at the following rates:		
7.1	Word Processing	\$ 50.00/hr
7.2	Drafting	\$ 75.00/hr
7.3	Reproduction	\$ 0.15/copy
7.4	Postage	Cost
8.	Engineering Consultation	
8.1	Senior Consultant or Project Principal	\$ 165.00/hr
8.2	Project Manager	\$ 150.00/hr
8.3	Project Engineer, Laboratory Manager	\$ 135.00/hr
8.4	Geologist	\$ 120.00/hr
8.5	Graduate Professional	\$ 95.00/hr
9.	Outside Services	Cost + 15%
Notes: (1) Minimum call-out charge for CMT technician and equipment or sample pick-up is 2 hours. Minimum call-out charge for CWI technician is 4 hours. Charges are accrued portal to portal.		
(2) Overtime rates are applicable to time worked in excess of 8 hours per day, Monday through Friday; hours worked before 7:00 am and after 6:00 pm; and all hours worked on Saturdays, Sundays, and holidays.		



**CONSTRUCTION MATERIALS TESTING FEE ESTIMATE
WILLIAMSON COUNTY EMERGENCY SERVICES OPERATIONS CENTER
WILLIAMSON COUNTY, TEXAS**

Description	Test Method	Qty	Unit Price	Extension	Subtotal
Earthwork					
Field Density Tests	TEX 115E, Part I	160 ea	\$14.00	\$2,240.00	
Technician		100 hr	\$43.00	\$4,300.00	
Overtime		0 hr	\$53.00		
Trip Charge		25 ea	\$42.00	\$1,050.00	\$7,590.00
Laboratory Testing for Soil					
Proctor Density	TEX 114E	6 ea	\$210.00	\$1,260.00	
Atterberg Limits	TEX 104, 105, 106E	6 ea	\$55.00	\$330.00	
Sieve Analysis	TEX 110E, 111E	6 ea	\$55.00	\$330.00	\$1,920.00
Drilled Piers					
Concrete Cylinders	ASTM C31, C39	60 ea	\$17.00	\$1,020.00	
Sr. Technician		120 hr	\$48.00	\$5,760.00	
Overtime		40 hr	\$58.00	\$2,320.00	
Trip Charge		20 ea	\$42.00	\$840.00	\$9,940.00
Reinforcing Steel Inspections					
Sr. Technician		32 hr	\$48.00	\$1,536.00	
Overtime		0 hr	\$58.00		
Trip Charge		8 ea	\$42.00	\$336.00	\$1,872.00
Concrete Placement - Structural					
Concrete Cylinders	ASTM C31, C39	64 ea	\$17.00	\$1,088.00	
Air Content Tests	ASTM C173, C231	9 ea	\$15.00	\$135.00	
Technician		96 hr	\$43.00	\$4,128.00	
Overtime		0 hr	\$53.00		
Trip Charge		32 ea	\$42.00	\$1,344.00	\$6,695.00
Structural Masonry					
Mortar Cubes	ASTM C780	60 ea	\$17.00	\$1,020.00	
Grout Specimens	ASTM C1019	40 ea	\$40.00	\$1,600.00	
Masonry Units	ASTM C140	0 ea	\$75.00	\$0.00	
Masonry Prisms	ASTM C1314	0 ea	\$150.00	\$0.00	
Technician		60 hr	\$43.00	\$2,580.00	
Overtime		0 hr	\$53.00		
Trip Charge		20 ea	\$42.00	\$840.00	\$6,040.00
Welding Inspection					
Certified Welding Inspector		36 hr	\$72.00	\$2,592.00	
Overtime		0 hr	\$82.00		
Grout Specimens	ASTM C1019	12 ea	\$40.00	\$480.00	
Trip Charge		8 ea	\$42.00	\$336.00	\$3,408.00
Hot-Mix Asphaltic Concrete					
Technician		8 hr	\$48.00	\$384.00	
Overtime		0 hr	\$58.00		
Asphalt Coring Equipment		8 hr	\$20.00	\$160.00	
Trip Charge		2 ea	\$42.00	\$84.00	\$628.00
Laboratory Testing for Asphalt					
Bulk Density/VMA	TEX 207F	6 set	\$110.00	\$660.00	
AC Content/Gradation	TEX 236F, 200F	6 ea	\$200.00	\$1,200.00	
Max Theoretical Density	TEX 227F	6 ea	\$60.00	\$360.00	
Specific Gravity of Asphalt core	TEX 207F	6 ea	\$42.00	\$252.00	\$2,472.00
Project Management					
Project Manager, P.E.		8 hr	\$150.00	\$1,200.00	
Project Manager, Geotechnical Engineering Review		4 hr	\$150.00	\$600.00	
Well Closure, Cost + 15%		1.15 x	\$1,000.00	\$1,150.00	
Report Production		Billed at 5% of total fees		\$2,118.25	\$5,068.25
Total Estimated Project Cost					\$45,633.25