

CONTRACT AMENDMENT NO. 1
TO
WILLIAMSON COUNTY CONTRACT FOR
ENGINEERING SERVICES

**WILLIAMSON COUNTY ROAD & BRIDGE PROJECT:
ON-CALL MATERIALS TESTING & GEOTECHNICAL ENGINEERING (“Project”)**

THIS CONTRACT AMENDMENT NO. 1 to Williamson County Contract for Engineering Services is by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Fugro USA Land, Inc. (the "Engineer") and becomes effective as of the date of the last party's execution below.

WHEREAS, the County and the Engineer executed the Williamson County Contract for Engineering Services dated effective May 5, 2020 (the “Contract”);

WHEREAS, pursuant to Article 14 of the Contract, the terms of the Contract may be modified by a written fully executed Contract Amendment;

WHEREAS, the “Compensation Cap” under Article 5 of the Contract limits the maximum amount payable under the Contract to \$400,000.00; and,

WHEREAS, the Rate Schedule in Exhibit D of the Contract are limited to the rates noted in said Exhibit D; and,

WHEREAS, it has become necessary to amend the Contract.

AGREEMENT


NOW, THEREFORE, premises considered, the County and the Engineer agree that the Contract is amended as follows:

- I. The hourly Rates in the original Exhibit D of the Contract are hereby amended as shown in the attached revised Exhibit D.

All other terms of the Contract are unchanged and will remain in full force and effect.

IN WITNESS WHEREOF, the County and the Engineer have executed this Contract Amendment, in duplicate, to be effective as of the date of the last party's execution below.

ENGINEER:

By: 
Signature

Denton A. Kort, PE
Printed Name

Vice President, General Manager
Title

June 9, 2021
Date

COUNTY:

By: _____
Signature

Printed Name

Title

Date



6/14/2021



EXHIBIT D - RATE SCHEDULE

FEES FOR GEOTECHNICAL AND MATERIALS ENGINEERING SERVICES

1. FIELD SERVICES

1.1 Geotechnical

	Unit Rate
1.1.1 Mobilization and Demobilization, Local, Each	\$ 450.00 minimum
1.1.1.1 Drill Truck, Water Truck, Pickup, and Crew	\$ 8.00/mile
1.1.2 Drilling and Sampling	
1.1.2.1 Drilling and Sampling with 3-inch, Thin-Walled Tube Sampler, Continuous to 10.0 ft, 5.0-ft Intervals Thereafter	\$ 22.00/foot
1.1.2.2 Continuous Drilling and Sampling with 3-inch, Thin-Walled Tube Sampler or Split-Spoon Sampler	\$ 39.00/foot
1.1.3 Standard Penetration Tests	\$ 27.00/each
1.1.4 TxDOT Cone Penetration Tests	\$ 34.00/each
1.1.5 Rock Coring, NX or Similar Core Barrel	
1.1.5.1 Drilling in Soft Rock (Austin Chalk, Eagle Ford Shale, etc.)	\$ 30.00/foot
1.1.5.2 Drilling in Hard Rock or Cavitated Rock (Edwards, Buda, Glen Rose, Georgetown, and Walnut Formations)	\$ 39.00/foot
1.1.6 Casing of Boreholes	\$ 26.00/foot
1.1.7 Drill Rig Hourly Charges for Boring Layout, Excessive Time Spent Gaining Access to Boring Locations, Move Time, Backfilling Boreholes, Cleaning up Site, Installing Piezometers, and for Other Reasons Beyond our Control	\$ 245.00/hour
1.1.8 Plugging Boreholes with Bentonite	\$ 9.00/foot
1.1.9 Cone Penetrometer Testing	\$3,750.00/day
1.1.10 Wooden Core Boxes (NX)	\$ 75.00/each
1.1.11 Field Personnel	See 4.0: Engineering Consultation

1.2 Geophysics Equipment

	Unit Rate
1.2.1 Geophysics Vehicle (including consumables)	\$ 175.00/day
1.2.2 Mileage	\$ IRS RATE
1.2.3 GPR (complete system)	\$ 500.00/day
1.2.4 GPR (extra antenna)	\$ \$85.00/day
1.2.5 EM (EM31, EM61)	\$ 220.00/day
1.2.6 Resistivity (Sting/MiniSting)	\$ 140.00/day
1.2.7 Resistivity (SuperSting)	\$ 775.00/day
1.2.8 Magnetometer	\$ 260.00/day
1.2.9 Seismic Refraction (per 24ch)	\$ 325.00/day
1.2.10 Downhole Seismics	\$ 360.00/day
1.2.11 Crosshole Seismics	\$ 510.00/day
1.2.12 Utility Locating Tools	\$ 190.00/day



EXHIBIT D - RATE SCHEDULE

1.3 CMT Field Technicians⁽¹⁾		Unit Rate
1.3.1	Technician (NICET Level I, ACI Grade 1, or TxDOT SB 102).....	\$ 60.00/hr
1.3.2	Technician (TxDOT HMAC Level 1A/1B or equivalent).....	\$ 68.00/hr
1.3.3	Senior Technician (NICET Level II or TxDOT HMAC Level II).....	\$ 82.00/hr
1.3.4	Certified Welding Inspector.....	\$ 90.00/hr
1.4 Field Testing and Equipment		
14.1	Transportation (Local).....	\$ 80.00/trip
1.4.2	Nuclear Density Tests (Equipment Charge).....	\$ 19.00/test
1.4.3	Torque Wrench.....	\$ 35.00/day
1.4.4	Ultrasonic Testing Equipment.....	\$ 35.00/hr
1.4.5	Asphalt Coring Equipment.....	\$ 45.00/hr
1.4.6	Concrete Coring Equipment.....	\$ 45.00/hr
1.4.7	Concrete Core Bit Charges	
	1.4.7.1 3 inch-diameter Core.....	\$ 9.00/inch
	1.4.7.2 4 inch-diameter Core.....	\$ 12.00/inch
	1.4.7.3 6 inch-diameter Core.....	\$ 18.00/inch
	(Other sizes quoted upon request)	
1.4.8	FACE® Dipstick Floor Flatness/Floor Levelness Equipment.....	\$ 250.00/day
1.4.9	Air Content of fresh concrete (ASTM C173, C231).....	\$ 23.00/ea
1.4.10	Unit Weight of fresh concrete (ASTM C138).....	\$ 23.00/ea
1.4.11	Soil-Lime Field Gradation (TEX-101-E).....	\$ 50.00/ea

2. LABORATORY TESTING

2.1 Soil		Unit Rate
2.1.1	Bulk Sample Pick-Up.....	\$ 60.00/hr
2.1.2	Sample Preparation (TEX-101-E).....	\$ 120.00/ea
2.1.3	Natural Moisture Content.....	\$ 19.00/ea
2.1.4	Sieve Analysis (TEX-110-E).....	\$ 70.00/ea
2.1.5	Atterberg Limits (Liquid and Plastic Limits).....	\$ 75.00/ea
	(TEX-104-E, TEX-105-E, TEX-106-E)	
2.1.6	Percent Passing No. 200 Sieve (TEX-111-E).....	\$ 50.00/ea
2.1.7	Bar Linear Shrinkage of Soils (TEX-107-E).....	\$ 50.00/ea
2.1.8	Moisture Density Relationship (ASTM D 698), (ASTM D 1557), (TEX-113-E), (TEX-114-E).....	\$ 275.00/ea
2.1.9	Wet Ball Mill (TEX-116-E).....	\$ 225.00/ea
2.1.10	Texas Triaxial Compression test on base material (TEX-117-E Part II).....	\$2,300.00/ea
2.1.11	Soil Specific Gravity (TEX-108-E).....	\$ 75.00/ea
2.1.12	Soluble Sulfates (TEX-145-E).....	\$ 90.00/ea
2.1.13	Soil pH (TEX-128-E).....	\$ 70.00/ea
2.1.14	Soil-Lime pH Series (6 points, TEX-121-E, Part III).....	\$ 750.00/set
2.1.15	Free Swell Test.....	\$ 125.00/ea
2.1.16	Pressure Swell test.....	\$ 175.00/ea
2.1.17	Uniaxial Pressure-Strain test.....	\$ 90.00/ea
2.1.18	Hydrometer Analysis.....	\$ 225.00/ea
2.1.19	Unit Dry Weight Determination and Natural Water Content.....	\$ 30.00/ea
2.1.20	Unconfined Compression Test, Soil.....	\$ 65.00/ea

EXHIBIT D - RATE SCHEDULE

2. LABORATORY TESTING

2.1 Soil (Continued)

	Unit Rate
2.1.21 Unconfined Compression Test, Rock.....	\$ 75.00/ea
2.1.22 Unconsolidated-Undrained Triaxial Compression Test.....	\$ 90.00/ea
2.1.23 Consolidation Test, 7-load Increments.....	\$ 850.00/ea
Additional Load Increments.....	\$ 125.00/ea
2.1.24 Permeability of Silt or Clay.....	\$ 395.00/ea
2.1.25 Sample Remolding.....	\$ 68.00/ea
2.1.26 Volumetric Shrinkage.....	\$ 95.00/ea
2.1.27 California Bearing Ratio (CBR).....	\$ 240.00/ea
2.1.28 Box Resistivity of Soils (TEX-129-E).....	\$ 115.00/ea
2.1.29 Swell or Settlement Potential-Cohesive Soil (ASTM D 4546).....	\$ 275.00/ea
2.1.30 Crumb Test of Clayey Soils (ASTM D 6572).....	\$ 48.00/ea
2.1.31 Organic Content (ASTM D 2974).....	\$ 72.00/ea
2.1.32 Determine Potential Vertical Rise (TEX-124-E).....	\$ 75.00/ea



2.2 Concrete and Cement

2.2.1 Aggregate Gradation Analysis (ASTM C136, TEX-200-F).....	\$ 75.00/ea
2.2.2 Specific Gravity of Aggregate (ASTM C127, C128).....	\$ 75.00/ea
2.2.3 Absorption of Aggregate (ASTM C127, C128).....	\$ 75.00/ea
2.2.4 Unit Weight of Aggregate (ASTM C29).....	\$ 75.00/ea
2.2.5 Abrasion Test (TEX-410-A).....	\$ 245.00/ea
2.2.6 Decantation (TEX-406-A).....	\$ 45.00/ea
2.2.7 Organic Impurities (TEX-408-A).....	\$ 60.00/ea
2.2.8 Sodium Soundness of Aggregate (ASTM C88).....	\$ 425.00/ea
2.2.9 Concrete Cylinder Compressive Strength (ASTM C 39).....	\$ 22.00/ea
2.2.10 Beam Flexural Strength (ASTM C 78).....	\$ 90.00/ea
2.2.11 Mortar Cube Compressive Strength (ASTM C780).....	\$ 22.00/ea
2.2.12 Grout Specimen Compressive Strength (ASTM C1019).....	\$ 50.00/ea
2.2.13 Concrete Masonry Unit Strength (ASTM C780).....	\$ 115.00/ea
2.2.14 Drilled Core Compressive Strength (ASTM C42).....	\$ 80.00/ea

2.3 Asphaltic Concrete / Fireproofing

2.3.1 Bag Sample Pick-Up.....	\$ 68.00/hr
2.3.2 Obtaining Field Cut Specimens (6-inch diameter, Min. 3/location).....	\$ 70.00/ea
2.3.3 Molding Test Specimens, Bulk Density, and Stability (3 per set).....	\$ 155.00/set
2.3.4 Determine Maximum Theoretical Density.....	\$ 75.00/ea
2.3.5 Asphalt Content and Gradation (TEX-236-F, 200-F).....	\$ 275.00/ea
2.3.6 Asphalt Oven Correction Factors (TEX-236-F, 200-F).....	\$ 1,300.00/ea
2.3.7 Bulk Specific Gravity of Asphalt Core.....	\$ 48.00/ea
2.3.8 Sand Equivalent.....	\$ 175.00/ea

3. REPORT PREPARATION

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:

3.1 Word Processing.....	\$ 75.00/hr
3.2 Drafting.....	\$ 85.00/hr
3.3 Reproduction.....	\$ 0.20/copy



EXHIBIT D - RATE SCHEDULE

4. ENGINEERING CONSULTATION AND MANAGEMENT

4.1	Senior Consultant/Project Principal	\$ 295.00/hr
4.2	Senior Project Manager/Senior Engineer.....	\$ 250.00/hr
4.3	Project Manager	\$ 195.00/hr
4.4	Project Engineer.....	\$ 180.00/hr
4.5	Project Geologist/Geophysicist.....	\$ 180.00/hr
4.6	Senior Geophysicist.....	\$ 210.00/hr
4.7	Laboratory Manager	\$ 175.00/hr
4.8	Graduate Engineer/Geologist/Professional.....	\$ 125.00/hr
4.9	Senior Engineering Technician.....	\$ 115.00/hr

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) Laboratory test prices are FOB Fugro laboratory unless noted otherwise. Sample pick-up charges are additional.
- 3) Services required and not listed above would be negotiated at the time of proposal request.
- 4) Charges for field testing equipment do not include personnel or travel charges.
- 5) Transportation charges are applicable for all field testing assignments, meetings and site visits.