

**CONTRACT AMENDMENT NO. 4**  
**TO**  
**WILLIAMSON COUNTY CONTRACT FOR**  
**ENGINEERING SERVICES**

**WILLIAMSON COUNTY ROAD BOND PROJECT:**

**FM 3349 at US 79 [P332] (“Project”)**

THIS CONTRACT AMENDMENT NO. 4 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 HDR Engineering, 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 July 23, 2019 (the “Contract”);

WHEREAS, the County and the Engineer executed Contract Amendment No. 1 on August 4, 2020 to increase the maximum amount payable under the Contract to \$ 3,350,000.00;

WHEREAS, the County and the Engineer executed Contract Amendment No. 2 on June 29, 2021 to increase the maximum amount payable under the Contract to \$ 3,850,000.00;

WHEREAS, the County and the Engineer executed Contract Amendment No. 3 on August 10, 2021 to revise Exhibit ‘D’ Rate Schedule;

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

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 Compensation Cap under Article 5 of the Contract is hereby increased from \$ 3,850,000.00 to \$ 5,150,000.00.
- II. Exhibit ‘D’ Rate Schedule is hereby revised and attached.

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

Mark Borenstein, PE  
Printed Name

Vice President  
Title

November 10, 2021  
Date

**COUNTY:**

By: \_\_\_\_\_  
Signature

Bill Gravell  
Printed Name

County Judge  
Title

\_\_\_\_\_  
Date

**INLAND GEODETICS, LLC**  
**SURVEY HOURLY RATE SCHEDULE**

**Field Crew Services**

Two (2) Person Field Crew	\$150.00 per hour
Three (3) Person Field Crew	\$170.00 per hour
Four (4) Person Field Crew	\$190.00 per hour
Additional Crewmember	\$ 54.00 per hour
GPS Field Operator & Vehicle & GPS Receiver	\$120.00 per hour
All Terrain Vehicle	\$ 55.00 per day
Additional Vehicle	\$ 60.00 per day

Crew Rates include one four-wheel drive vehicle. There is no mileage charge for fully equipped field vehicles when the job site is within 50 miles of the office from which the survey crew originates. Field crew stand by time will be charged at stated rates. Field party rates include conventional equipment, supplies and survey vehicles. Abnormal use of stakes, lathes, etc., used such as during the construction phase of a project will be charged as indicated. A minimum of two (2) hours field party time charge will be made for show-up time and return to office, resulting from inclement weather conditions, etc.

**Office Personnel Services**

Office personnel are available at fixed hourly rates.

Project Manager	\$140.00 per hour
Licensed State Land Surveyor	\$150.00 per hour
Registered Professional Land Surveyor	\$135.00 per hour
Survey Technician	\$102.00 per hour
Clerical Support	\$ 58.00 per hour

**Surveying Services within Union Pacific Railroad Right-of-Way**    *New Rate Categories to be added*  
**(Billed at Actual Costs with Documentation)**

RailPros Flagman	\$ 1,750.00	Per day
UPRR Application for Right-of-Entry Agreement Fee	\$ 1,500.00	Per each
UPRR Right-of-Entry License Fee	\$ 2,300.00	Per each
Railroad Protective Liability Insurance	\$ 2,100.00	Per each

GEOTECHNICAL ENGINEERING SERVICES - Master Rate Schedule			
Consultant Name: Terracon Consultants, Inc.		Unit	Rate
<b>0. Personnel</b>			
0.1	Senior Principal / Officer / Consultant, P.E.	Per hr	\$200.00
0.2	Principal Engineer, P.E.	Per hr	\$185.00
0.3	Senior Geologist, P.G.	Per hr	\$170.00
0.4	Senior Engineer, P.E. / Senior Project Manager	Per hr	\$160.00
0.5	Project Manager, P.E.	Per hr	\$140.00
0.6	Project Engineer, P.E.	Per hr	\$130.00
0.7	Senior Staff Engineer, P.E.	Per hr	\$125.00
0.8	Staff Engineer, E.I.T.	Per hr	\$115.00
0.9	Field Engineer, E.I.T.	Per hr	\$110.00
0.10	Field Geologist, G.I.T	Per hr	\$110.00
0.11	Laboratory Manager	Per hr	\$150.00
0.12	Laboratory Coordinator / Draftsman	Per hr	\$90.00
0.13	Field / Drilling Services Coordinator	Per hr	\$90.00
0.14	Administrative Staff	Per hr	\$55.00
<b>1. Drilling</b>			
1.1	Rig Mobilization	Per ea	\$400.00
1.2	Minimum Daily Rig Charge (only if drill depth rates below not used)	Per day	\$865.00
1.3	Soil Drilling (includes backfilling of boring)		
1.3.1	Soil Drilling 0' to 50' depth	Per ft	\$17.00
1.3.2	Soil Drilling 51' to 100' depth	Per ft	\$19.00
1.3.3	Soil Drilling 101' to 150' depth	Per ft	\$23.00
1.3.4	Standard Penetration Tests (SPT) (ASTM D 1586)	Per ea	\$26.00
1.3.5	Shelby Tube (Thin Wall/3") (ASTM D 1587)	Per ea	\$26.00
1.3.6	TxDOT Cone Penetrometer (TEX-132-E)	Per ea	\$35.00
1.4	Rock Drilling / Augering Surcharge		
1.4.1	Rock Augering Surcharge (to be added to soil drilling depth rates above only when rock is augered, but not cored)	Per ft	\$7.00
1.5	Rock Coring (includes backfilling of boring)		
1.5.1	Rock Coring 0' to 25' depth	Per ft	\$26.50
1.5.2	Rock Coring 25' to 35' depth	Per ft	\$28.00
1.5.3	Rock coring 35' to 50' depth	Per ft	\$31.50
1.5.4	Rock coring 50' to 65' depth	Per ft	\$35.50
1.5.5	Rock coring 65' to 80' depth	Per ft	\$40.50
1.6	Concrete Coring		
1.6.1	Trip Charges (round-trip)	Per ea	\$130.00
1.6.2	Equipment Charge	Per hr	\$52.50
1.6.3	Core Bit Surcharge (in addition to base equipment charge)		
	1.6.3.1 - 3-inch diameter core	Per inch	\$10.50
	1.6.3.2 - 4-inch diameter core	Per inch	\$12.50
	1.6.3.3 - 6-inch diameter core	Per inch	\$15.50
1.6.4	Repair Core hole	Per ea	\$78.50
1.7	HMAC Coring		
1.7.1	Trip Charge (round-trip)	Per ea	\$130.00
1.7.2	Equipment Charge	Per hr	\$78.50
1.7.3	Repair Core hole with Cold Mix	Per ea	\$42.00
1.8	Support Truck	Per day	\$130.00
1.9	Water Truck	Per day	\$130.00
1.10	Hollow Stem Auger Surcharge (to be added to soil drilling depth rates above only when hollow stem augers are required)	Per ft	\$10.50
1.11	Groundwater Observation Well - 20' deep - Materials Only (other depths quoted upon request)	Per ea	\$630.00
1.12	Groundwater Observation Well - 20' deep - Completed Well with Concrete Pad and Lockable Cap (other depths quoted upon request)	Per ea	\$2,300.00
1.13	Steam Cleaner	Per day	\$315.00
1.14	Air Compressor	Per day	\$115.50
1.15	Drill Crew (two-person crew) - Safety Training, per hour per person	Per hr/pp	\$100.00

New Sub-Consultant Rate Categories to be added

GEOTECHNICAL ENGINEERING SERVICES - Master Rate Schedule			
Consultant Name: Terracon Consultants, Inc.		Unit	Rate
<b>2. Laboratory Testing</b>			
2.1	Moisture Content (ASTM D 2216)	Per ea	\$8.00
2.2	Moisture Content + Dry Density (ASTM D 2937)	Per ea	\$28.50
2.3	Atterberg Limits (ASTM D-4318; TEX-104-E, TEX 105-E and TEX-106-E)	Per ea	\$65.00
2.4	Hydrometer Analysis (ASTM D 422)	Per ea	\$125.00
2.5	No. 200 Sieve (ASTM D-1140; TEX-111-E)	Per ea	\$50.00
2.6	Particle Gradation: Including No. 200 sieve (ASTM D-422, TEX 110E)	Per ea	\$157.50
2.7	Particle Gradation: Including Hydrometer (ASTM D-422)	Per ea	\$230.00
2.8	Moisture Density Relationship: Standard Effort: 4" Mold (ASTM D 698 A & B)	Per ea	\$345.00
2.9	Moisture Density Relationship: Standard Effort: 6" Mold (ASTM D 698 C & D)	Per ea	\$345.00
2.10	Moisture Density Relationship: Modified Effort: 4" Mold (ASTM D 1557)	Per ea	\$345.00
2.11	Moisture Density Relationship: Modified Effort: 6" Mold (ASTM D 1557)	Per ea	\$345.00
2.12	Moisture Density Relationship: Base & Cohesionless Sand (TEX-113-E)	Per ea	\$455.00
2.13	Moisture Density Relationship: Subgrade & Embankment Soils (TEX 114 E) Part II	Per ea	\$383.00
2.14	Unconfined Compression Test - Cohesive Soils (ASTM D 2166)	Per ea	\$35.00
2.15	Unconfined Compression Test - Rock (ASTM D 7012-C)	Per ea	\$40.00
2.16	Consolidation		
2.16.1	Consolidation Test (ASTM D 2435) (up to 6 load increments)	Per ea	\$472.50
2.16.2	Each additional load increment in excess of 6	Per ea	\$52.50
2.17	Triaxial Unconsolidated-Undrained (UU) (ASTM D 2850) (per point)	Per ea	\$125.00
2.18	Triaxial Consolidated-Undrained (CU) with pore pressures (ASTM D 4767) (3 pts.)	Per ea	\$1,000.00
2.19	Triaxial Consolidated-Undrained (CU) with pore pressures (ASTM D 4767) multi-stage (3 pts)	Per stage	\$840.00
2.20	Direct Simple Shear CU, per point (ASTM D 6528)	Per ea	\$267.50
2.21	Direct Shear CD, per point (ASTM D 3080), includes extrusion, unit wt., and moisture	Per ea	\$267.50
2.22	Direct Shear CD with residual strength, per point, includes ext., unit wt., and moisture	Per ea	\$267.50
2.23	Shrinkage (Volumetric) (ASTM D 427, ASTM D 4943)	Per ea	\$267.50
2.24	Shrinkage (Bar Linear) (TEX-107-E)	Per ea	\$99.00
2.25	Swell Pressure (ASTM D 4546) Single Load	Per ea	\$155.00
2.26	Swell Pressure (ASTM D 4546) Multi-Load Increments	Per ea	\$420.00
2.27	Free Swell	Per ea	\$105.00
2.28	Controlled Pressure Swell	Per ea	\$420.00
2.29	PVR (TEX 124-E)	Per ea	\$155.00
2.30	Texas Triaxial Compression Test (TEX-117E)		
2.30.1	Molding, Curing, and Testing 9 Specimens	Per ea	\$1,890.00
2.30.2	Sample Preparation (TEX-101-E)	Per ea	\$105.00
2.30.3	Sieve Analysis (TEX-110-E)	Per ea	\$157.00
2.30.4	Atterberg Limits (Liquid and Plastic Limits) (TEX-104-E, TEX-105-E, TEX-10-E)	Per ea	\$105.00
2.30.5	Percent Passing No. 200 Sieve (TEX-111-E)	Per ea	\$105.00
2.30.6	Bar Linear Shrinkage of Soils (TEX-107-E)	Per ea	\$99.00
2.30.7	Wet Ball Mill (TEX-116-E)	Per ea	\$420.00
2.31	Soil-Lime Relationship: PI Method (TEX-112-E, ASTM D 3551)	Per ea	\$400.00
2.32	Soil-Lime Relationship: PH Method (ASTM D 6276, ASTM D 3551)	Per ea	\$185.00
2.33	Soil Lime Compression Test (TEX-121-E, Part 1: ASTM D 3551) (test includes 4 lime contents - each lime content involves 3 test specimens)	Per ea	\$1,300.00
2.34	Soil-Lime Compaction Testing (TEX-121-E, Part II)	Per ea	\$420.00
2.35	Atterberg Limits of Lime Treated (ASTM D 4318, ASTM D 3551)	Per ea	\$99.00
2.36	Sample Remolding	Per ea	\$78.00
2.37	Expansion, Shrinkage, and Uplift Pressure of Soil-Lime Mixtures (ASTM D-3877)	Per ea	\$315.00
2.38	California Bearing Ratio (CBR)		
2.38.1	CBR of Laboratory-Compacted Soils (ASTM D 1883)	Per ea	\$400.00
2.38.2	Each Additional Point	Per ea	\$78.50
<b>3. Miscellaneous Testing</b>			
3.1	Soluble Sulfate		
3.1.1	Soluble Sulfate (ASTM C88)	Per ea	\$75.00
3.1.2	Soluble Sulfate (Tex-145-E)	Per ea	\$100.00
3.2	Specific Gravity of Soils (TEX-108-E)	Per ea	\$78.00
3.3	Soil pH (TEX-128-E)	Per ea	\$52.00
3.4	Laboratory Resistivity (ASTM G-58, TEX 129-E)	Per ea	\$95.00
3.5	PH, Sulfate, Chloride & Resistivity	Per ea	\$150.00
3.6	Crumb Test of Clayey Soils (ASTM 6572)	Per ea	\$52.50
3.7	Organic Content		
3.7.1	Organic Content (ASTM D2974)	Per ea	\$63.00
3.7.2	Organic Content (Tex-148-E)	Per ea	\$89.00
3.8	Permeability		
3.8.1	Falling Head (ASTM D 5084)	Per ea	\$456.00
3.8.2	Constant Head (ASTM D 2434)	Per ea	\$472.50
3.9	Traffic Control Services (rolling single-lane closure), per day	Per day	\$2,500.00
3.10	RailPros Flagman	Per day	\$1,750.00
3.11	UP Application for Right-of-Entry Agreement Fee	Per ea	\$1,201.75
3.12	UP Right-of-Entry License Fee	Per ea	\$2,300.00
3.13	Railroad Protective Liability Insurance	Per ea	\$2,012.50