

**SUPPLEMENTAL WORK AUTHORIZATION NO. 1  
TO  
WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY PROJECT:  
Justice Center Server Room**

This Supplemental Work Authorization No. 1 to Work Authorization No.1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated January 8, 2019 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Balcones Geotechnical, LLC (the "Firm").

WHEREAS, the County and the Firm executed Work Authorization No. 1 dated effective January 10, 2019 (the "Work Authorization");

WHEREAS, pursuant to the Contract, amendments, changes and modifications to a fully executed Work Authorization shall be made in the form of a Supplemental Work Authorization; and

WHEREAS, it has become necessary to amend, change and modify the Work Authorization.

**AGREEMENT**

NOW, THEREFORE, premises considered, the County and the Firm agree that the Work Authorization shall be amended, changed and modified as follows:

- I. The above referenced Work Authorization termination date shall be modified to December 31, 2019. The Services to be Provided by the Firm shall be fully completed on or before said date unless extended by an additional Supplemental Work Authorization. The revised Work Schedule is attached hereto as Attachment "C" (must be attached).
- II. The maximum amount payable for services under the Work Authorization is hereby increased from \$10,000.00 to \$15,000.00. The Fee Schedule is attached hereto as Attachment "D" (must be attached).

County believes it has sufficient funds currently available and authorized for expenditure to finance the costs of this Supplemental Work Authorization. Firm understands and agrees that County's payment of amounts under this Supplemental Work Authorization is contingent on the County receiving appropriations or other expenditure authority sufficient to allow the County, in the exercise of reasonable administrative discretion, to continue to make payments under the Supplemental Work Authorization. It is further understood and agreed by Firm that County shall have the right to terminate this Supplemental Work Authorization at the end of any County fiscal year if the governing body of County does not appropriate sufficient funds as determined by County's budget for the fiscal year in question. County may effect such termination by giving written notice of termination to Firm.

Except as otherwise amended by prior or future Supplemental Work Authorizations, all other terms of the Work Authorization are unchanged and will remain in full force and effect.

This Supplemental Work Authorization does not waive the parties' responsibilities and obligations provided under the Contract.

**IN WITNESS WHEREOF**, the County and the Firm have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

**FIRM:**

By: John A. Wooley  
Signature

John A. Wooley  
Printed Name

Principal  
Title

July 8, 2019  
Date

**COUNTY:**

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

Bill Gravell, Jr.  
Printed Name

\_\_\_\_\_  
County Judge  
Title

\_\_\_\_\_  
Date

**LIST OF ATTACHMENTS**

Attachment C - Work Schedule

Attachment D - Fee Schedule

### **Attachment C – Work Schedule**

Work shall begin immediately upon receipt of agreement and authorization to proceed on assigned services.

**Attachment D – Fee Schedule**

**FEE SCHEDULE FOR GEOTECHNICAL FIELD,  
LABORATORY AND ENGINEERING SERVICES**

**1. Field Investigation: Drilling and Pavement Testing**

1.1	Mobilization and demobilization, per mobilization and setup		
1.1.1	Drill truck, water truck, pickup, and crew.....	\$	4.25/ mile
1.1.2	All-terrain drill rig, pickup, and crew .....	\$	6.00/ mile
1.1.3	Setup and moving between boring locations.....	\$	150.00/each
1.2.	Specialty Drilling		
1.2.1	All-terrain vehicle with drill rig (additional charge) .....	\$	850.00/ day
1.2.2	Pavement Cores through HMA and Base.....	\$	400.00/ea
1.2.3	Pavement Cores through Concrete and Base.....	\$	550.00/ea
1.3.	Drilling and sampling, continuous to 10 ft and 5 ft intervals thereafter		
1.3.1	Drilling and sampling 0 to 50 ft.....	\$	22.00 /foot
1.3.2	Drilling and sampling 50 to 100 ft.....	\$	28.00/ foot
1.4.	Thin walled tube sample.....	\$	20.00/each
1.5.	Standard Penetration or TxDOT Cone Penetration Tests.....	\$	30.00/each
1.6.	Rock coring, NX or similar core barrel		
1.6.1	Drilling in soft rock .....	\$	32.50/ foot
1.6.2	Drilling in hard rock or vuggy rock.....	\$	35.00/ foot
1.7.	Wash or auger borings drilled and logged from cuttings:		
1.7.1	Soil .....	\$	14.00/ foot
1.7.2	Rock.....	\$	20.00/ foot
1.8.	Casing of boreholes .....	\$	15.00/ foot
1.9.	Hourly charges for boring layout, excessive time spent gaining access to boring locations, backfilling boreholes, cleaning up site, installing piezometers, and for other reasons beyond our control .....	\$	200.00/hour
1.10.	Rental of concrete core drilling equipment or equipment to gain site access, or traffic control devices .....	\$	Cost
1.11.	Materials for piezometers, grouting, etc.....	\$	Cost
1.12.	Surveying, Traffic Control or other outside contractors .....	\$	Cost
1.13.	Standby .....	\$	250.00/hour
1.14.	High-pressure steam cleaner .....	\$	400.00/ day
1.15.	OVA meter .....	\$	On Request
1.16.	55 Gallon Steel drums for drill cuttings .....	\$	85.00/each
1.17.	Plugging boreholes with bentonite chips .....	\$	9.00/foot
1.18.	Downhole Borehole Photography		
1.18.1	Mobilization .....	\$	1,250.00/ea
1.18.2	Downhole Camera Base Rate .....	\$	3,000.00/wk
1.18.3	Photography Operating Rate .....	\$	125.00/hr

**2. Laboratory Tests**

2.1.	Natural water content and soil classification .....	\$	15.00/each
2.2.	Plastic and liquid limits .....	\$	85.00/each



2.3.	Free swell test .....	\$	95.00/each
2.4.	Pressure swell test .....	\$	150.00/each
2.5.	Uniaxial pressure-strain test .....	\$	65.00/each
2.6.	Sieve analysis (No. 4, 40, and 200 sieves) .....	\$	85.00/each
2.7.	Percent material passing a single sieve .....	\$	45.00/each
2.8.	Minus No. 200 sieve .....	\$	45.00/each
2.9.	Hydrometer analysis .....	\$	200.00/each
2.10.	Unit dry weight determination and natural water content .....	\$	18.00/each
2.11.	Unconfined compression test, soil .....	\$	75.00/each
2.12.	Unconfined compression test, rock .....	\$	85.00/each
2.13.	Unconsolidated-undrained triaxial compression test .....	\$	95.00/each
2.14.	Standard Proctor (ASTM D-698) compaction test .....	\$	230.00/each
2.15.	Modified Proctor (ASTM D-1557) compaction test .....	\$	230.00/each
2.16.	Texas Triaxial (TxDOT TEX-117-E) .....	\$	1,800.00/each
2.17.	California Bearing Ratio (CBR) .....	\$	275.00/point
2.18.	Consolidation test, 7-load increments .....	\$	750.00/each
	Additional load increments .....	\$	100.00/each
2.19.	Permeability of silt or clay .....	\$	250.00/each
2.20.	Specific gravity .....	\$	50.00/each
2.21.	Volumetric shrinkage .....	\$	75.00/each
2.22.	Chemical and analytical testing by outside laboratory .....	\$	Cost
<b>3. Engineering and Technical Personnel</b>			
3.1.	Senior Consultant/ Project Principal .....	\$	255.00/hour
3.2.	Senior Project Manager .....	\$	215.00/hour
3.3.	Project Manager .....	\$	185.00/hour
3.4.	Senior Geotechnical Engineer .....	\$	175.00/hour
3.5.	Registered Geologist .....	\$	165.00/hour
3.6.	Laboratory Manager .....	\$	95.00/hour
3.7.	System Specialist .....	\$	165.00/hour
3.8.	Senior Engineering Technician .....	\$	95.00/hour
3.9.	Technician and Draftsperson .....	\$	85.00/hour
3.10.	Admin. Assistant .....	\$	65.00/hour
<b>4. Report Reproduction and Miscellaneous</b>			
4.1.	Outside services, printing, reproduction, etc. ....	\$	Cost
4.2.	Outside technical assistance .....	\$	Cost
4.3.	Transportation .....	\$	Current IRS rate
4.4.	Pickup Truck .....	\$	75.00/day
4.5.	Per Diem for out of town, overnight lodging .....	\$	155.00/day

**Rates for other tests and services quoted on request  
January, 2018**