

**SUPPLEMENTAL WORK AUTHORIZATION NO. 4  
TO  
WORK AUTHORIZATION NO. 1**

**WILLIAMSON COUNTY PROJECT:**

Construction Material Testing and Inspection for Williamson County North Campus Facilities

This Supplemental Work Authorization No. 4 to Work Authorization No. 1 is made pursuant to the terms and conditions of the Williamson County Contract for Engineering Services, being dated November 10, 2016 ("Contract") and entered into by and between Williamson County, Texas, a political subdivision of the State of Texas, (the "County") and Raba Kistner, Inc. (the "Engineer").

WHEREAS, the County and the Firm executed Work Authorization No. 1 dated effective December 13, 2016 (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 April 30, 2020. 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 \$131,000.00 to \$139,000.00. 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: *Gabriel Ornelas*  
Signature

Gabriel Ornelas, Jr.  
Printed Name

Senior Vice President  
Title

July 10<sup>th</sup>, 2019  
Date

**COUNTY:**

By: *Bill Gravel, Jr.*  
Signature

Bill Gravel, Jr.  
Printed Name

County Judge  
Title

July 16, 2019  
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

<b>COST ESTIMATE BREAKDOWN</b>			Date:	October 17, 2016
			Proposal Number:	PAD16-147-00
Project Name:	North Campus Facilities - Williamson County			
Project Location:	2910, 3151, & 3189 S.E. Inner Loop			
Contact Name:	Dwayne Gossett			
Client:	Williamson County			
Address:	3101 SE Inner Loop			
City/State /Zip	Georgetown, Texas 78626			
Phone Number::	512-943-1611			
Fax Number:	512-938-3313			
E-Mail:	dgossett@wico.org			
<b>TESTING/OBSERVATION ITEM</b>	<b>UNIT COST</b>	<b>UNIT</b>	<b>ESTIMATED QUANTITY</b>	<b>COST EXTENSION</b>
<b>SOILS</b>				
Laboratory Testing				
Moisture Density Relationship, TxDOT or ASTM	\$249.00	each	6	\$1,494.00
Atterberg Limits	\$83.00	each	6	\$498.00
Sieve Analysis washed through No. 200	\$83.00	each	6	\$498.00
Line Series Curve	\$435.00	each	2	\$870.00
Field Testing/Observation				
Field Line Gradations	\$63.00	each	12	\$756.00
In-Place Nuclear Densities	\$25.00	each	680	\$17,000.00
Materials Technician	\$50.00	hour	512	\$25,600.00
Vehicle Travel Charge	\$40.00	trip	99	\$3,920.00
Subtotal				\$50,636.00
<b>REINFORCING STEEL OBSERVATIONS</b>				
Field Observation/Testing				
Materials Technician	\$50.00	hour	128	\$6,400.00
Vehicle Travel Charge	\$40.00	trip	32	\$1,280.00
Subtotal				\$7,680.00
<b>CONCRETE SAMPLING AND TESTING</b>				
Laboratory Testing				
Concrete Compressive Strength Cylinders	\$17.00	each	300	\$5,100.00
Field Testing/Observation				
Materials Technician	\$50.00	hour	190	\$9,500.00
Materials Technician (overtime)	\$70.00	hour	30	\$2,100.00
Vehicle Travel Charge	\$40.00	trip	65	\$2,600.00
Subtotal				\$19,300.00
<b>DRILLED PIER OBSERVATIONS</b>				
Laboratory Testing				
Concrete Compressive Strength Cylinders	\$17.00	each	95	\$1,615.00
Field Testing/Observation				
Materials Technician	\$50.00	hour	128	\$6,400.00
Materials Technician (overtime)	\$70.00	hour	32	\$2,240.00
Geotechnical Engineer	\$135.00	hour	4	\$540.00
Vehicle Travel Charge	\$40.00	trip	17	\$680.00
Subtotal				\$11,475.00
<b>MASONRY OBSERVATION, SAMPLING AND TESTING</b>				
Laboratory Testing				
Mortar Cubes (Visual Observation by Proportions)	\$24.00	each	0	\$0.00
Compressive Strength Grout	\$17.00	each	165	\$2,805.00
Field Testing/Observation				
Materials Technician	\$50.00	hour	120	\$6,000.00
Vehicle Travel Charge	\$40.00	trip	32	\$1,280.00
Subtotal				\$10,085.00

COST ESTIMATE BREAKDOWN			Date:	October 17, 2016
			Proposal Number:	PAD16-147-00
Project Name:		North Campus Facilities - Williamson County		
THROUGH WALL FIRESTOP CAULKING PENETRATION OBSERVATIONS				
Field Testing/Observation				
Materials Technician	\$50.00	hour	32	\$1,600.00
Vehicle Travel Charge	\$40.00	trip	8	\$320.00
Subtotal				\$1,920.00
STRUCTURAL STEEL INSPECTION				
Field Testing/Observation				
CWI Inspector	\$95.00	hour	98	\$9,310.00
Non Destructive Testing (Ultrasonic Testing)	\$104.50	hour	8	\$836.00
Vehicle Travel Charge	\$40.00	trip	16	\$640.00
Subtotal				\$10,786.00
ASPHALT OBSERVATION, SAMPLING AND TESTING				
Laboratory Testing				
Bag Sample (Extraction, Gradation, A/C content, Molding Specimens, Laboratory Density of Molded Specimens, Stability Test, Hveem, Maximum Theoretical Specific Gravity)	\$459.00	each	10	\$4,590.00
Density of Asphalt Cores	\$51.00	each	20	\$1,020.00
Field Testing/Observation				
Materials Technician	\$60.00	hour	40	\$2,400.00
Coring	\$92.00	hour	10	\$920.00
Vehicle Travel Charge	\$40.00	trip		\$0.00
Subtotal				\$0.00
FLOOR FLATNESS TESTING (If required - no requirements in Project Specifications)				
Floor Flatness Testing	\$400.00	each	0	\$0.00
Subtotal				\$0.00
PROJECT ADMINISTRATION				
Project Manager	\$175.00	hour	8	\$1,400.00
Project Engineer (Review Reports)	\$135.00	hour	30	\$4,050.00
Subtotal				\$9,300.00
Reporting and Report Distribution		10% of total cost		\$0.00
GRAND TOTAL				\$130,512.00

<b>Add-Alternate No. 1</b>				
<b>SOILS</b>				
<b>Laboratory Testing</b>				
Moisture Density Relationship, TxDOT or ASTM	\$249.00	each	0	\$0.00
Atterberg Limits	\$83.00	each	0	\$0.00
Sieve Analysis washed through No. 200	\$83.00	each	0	\$0.00
Time Series Curve	\$435.00	each	0	\$0.00
<b>Field Testing/Observation</b>				
Field Time Gradations	\$63.00	each	4	\$252.00
In-Place Nuclear Densities	\$25.00	each	22	\$550.00
Materials Technician	\$50.00	hour	36	\$1,800.00
Vehicle Travel Charge	\$40.00	trip	9	\$360.00
<b>Subtotal</b>				<b>\$2,962.00</b>
<b>REINFORCING STEEL OBSERVATIONS</b>				
<b>Field Observation/Testing</b>				
Materials Technician	\$50.00	hour	0	\$0.00
Vehicle Travel Charge	\$40.00	trip	0	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>
<b>CONCRETE</b>				
<b>Laboratory Testing</b>				
Concrete Compressive Strength Cylinders	\$17.00	each	10	\$170.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	10	\$500.00
Non Destructive Testing (Ultrasonic Testine)	\$85.00	hour		\$0.00
Vehicle Travel Charge	\$50.00	trip		\$0.00
<b>Subtotal</b>				<b>\$670.00</b>
<b>ASPHALT</b>				
<b>Laboratory Testing</b>				
Bag Sample (Extraction, Gradation, A/C content, Moisture, Specimens, Laboratory Density of Molded Specimens, Stability Test, Heveem, Maximum Theoretical Specific Gravity)	\$459.00	each	1	\$459.00
Density of Asphalt Cores	\$51.00	each	2	\$102.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	4	\$200.00
Vehicle Travel Charge	\$40.00	trip	1	\$40.00
<b>Subtotal</b>				<b>\$801.00</b>
<b>PROJECT ADMINISTRATION</b>				
<b>Project Manager</b>				
	\$175.00	hour	0	\$0.00
<b>Project Engineer (Review Reports)</b>				
	\$135.00	hour	1	\$135.00
<b>Subtotal</b>				<b>\$135.00</b>
Reporting and Report Distribution		10% of total cost:		\$0.00
<b>GRAND TOTAL</b>				<b>\$4,859.00</b>

**Add-Alternate No. 2****SOILS****Laboratory Testing**

Moisture Density Relationship, TxDOT or ASTM	\$249.00	each	0	\$0.00
Atterberg Limits	\$83.00	each	0	\$0.00
Sieve Analysis washed through No. 200	\$83.00	each	0	\$0.00
Flow Series Curve	\$435.00	each	0	\$0.00
<b>Field Testing/Observation</b>				
Field Line Gradations	\$63.00	each	4	\$252.00
In-Place Nuclear Densities	\$25.00	each	18	\$450.00
Materials Technician	\$50.00	hour	21	\$1,050.00
Vehicle Travel Charge	\$40.00	trip	7	\$280.00
<b>Subtotal</b>				<b>\$2,032.00</b>

**REINFORCING STEEL OBSERVATIONS****Field Observation/Testing**

Materials Technician	\$50.00	hour	0	\$0.00
Vehicle Travel Charge	\$40.00	trip	0	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>

**CONCRETE****Laboratory Testing**

Concrete Compressive Strength Cylinders	\$17.00	each	5	\$85.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	6	\$300.00
Non Destructive Testing (Ultrasonic Testing)	\$85.00	hour		\$0.00
Vehicle Travel Charge	\$50.00	trip		\$0.00
<b>Subtotal</b>				<b>\$0.00</b>

**ASPHALT****Laboratory Testing**

Raw Sample Extraction, Gradation, A/C content	\$459.00	each	1	\$459.00
Molding Specimens, Laboratory Density of Molded Specimens, Stability Test, Hveem, Maximum Theoretical Specific Gravity				
Density of Asphalt Cores	\$51.00	each	2	\$102.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	4	\$200.00
Vehicle Travel Charge	\$40.00	trip	1	\$40.00
<b>Subtotal</b>				<b>\$801.00</b>

**PROJECT ADMINISTRATION**

Project Manager	\$175.00	hour	0	\$0.00
Project Engineer (Review Reports)	\$145.00	hour	1	\$145.00
<b>Subtotal</b>				<b>\$245.00</b>

**Reporting and Report Distribution**

		10% of total cost		\$0.00
<b>GRAND TOTAL</b>				<b>\$3,543.00</b>

**Add-Alternate No. 3****SOILS**

<b>Laboratory Testing</b>				
Moisture Density Relationship, TxDOT or ASTM	\$249.00	each	0	\$0.00
Atterberg Limits	\$83.00	each	0	\$0.00
Sieve Analysis washed through No. 200	\$83.00	each	0	\$0.00
Lime Series Curve	\$435.00	each	0	\$0.00
<b>Field Testing/Observation</b>				
Field Lime Gradations	\$63.00	each	4	\$252.00
In-Place Nuclear Densities	\$25.00	each	28	\$700.00
Materials Technician	\$50.00	hour	32	\$1,600.00
Vehicle Travel Charge	\$40.00	trip	8	\$320.00
<b>Subtotal</b>				<b>\$2,872.00</b>

**REINFORCING STEEL OBSERVATIONS**

<b>Field Observation/Testing</b>				
Materials Technician	\$50.00	hour	0	\$0.00
Vehicle Travel Charge	\$40.00	trip	0	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>

**CONCRETE**

<b>Laboratory Testing</b>				
Concrete Compressive Strength Cylinders	\$17.00	each	5	\$85.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	6	\$300.00
Non Destructive Testing (Ultrasonic Testing)	\$85.00	hour		\$0.00
Vehicle Travel Charge	\$40.00	trip		\$0.00
<b>Subtotal</b>				<b>\$385.00</b>

**ASPHALT**

<b>Laboratory Testing</b>				
Bag Sample (Extraction, Gradation, A/C content, Molding Specimens, Laboratory Density of Molded Specimens, Stability Test, Huem, Maximum Theoretical Specific Gravity)	\$453.00	each	1	\$453.00
<b>Density of Asphalt Cores</b>				
	\$51.00	each	2	\$102.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	4	\$200.00
Vehicle Travel Charge	\$40.00	trip	1	\$40.00
<b>Subtotal</b>				<b>\$795.00</b>

**PROJECT ADMINISTRATION**

<b>Project Manager</b>				
	\$175.00	hour	0	\$0.00
<b>Project Engineer (Review Reports)</b>				
	\$135.00	hour	1	\$135.00
<b>Subtotal</b>				<b>\$245.00</b>
<b>Reporting and Report Distribution</b>				
			10% of total cost	\$0.00
<b>GRAND TOTAL</b>				<b>\$3,992.00</b>



<b>Add-Alternate No. 4</b>				
<b>SOILS</b>				
<b>Laboratory Testing</b>				
Moisture Density Relationship, TxDOT or ASTM	\$249.00	each	0	\$0.00
Atterberg Limits	\$83.00	each	0	\$0.00
Sieve Analysis washed through No. 200	\$83.00	each	0	\$0.00
Time Series Curve	\$435.00	each	0	\$0.00
<b>Field Testing/Observation</b>				
Field Lime Gradations	\$63.00	each	2	\$126.00
In-Place Nuclear Densities	\$25.00	each	8	\$200.00
Materials Technician	\$50.00	hour	16	\$800.00
Vehicle Travel Charge	\$40.00	trip	4	\$160.00
<b>Subtotal</b>				<b>\$1,286.00</b>
<b>REINFORCING STEEL OBSERVATIONS</b>				
<b>Field Observation/Testing</b>				
Materials Technician	\$50.00	hour	0	\$0.00
Vehicle Travel Charge	\$40.00	trip	0	\$0.00
<b>Subtotal</b>				<b>\$0.00</b>
<b>CONCRETE</b>				
<b>Laboratory Testing</b>				
Concrete Compressive Strength Cylinders	\$17.00	each	0	\$0.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	0	\$0.00
Non Destructive Testing (Ultrasonic Testing)	\$85.00	hour		\$0.00
Vehicle Travel Charge	\$50.00	trip		\$0.00
<b>Subtotal</b>				<b>\$0.00</b>
<b>ASPHALT</b>				
<b>Laboratory Testing</b>				
Bag Sample (Extraction, Gradation, A/C content)	\$453.00	each	1	\$453.00
Molding Specimens, Laboratory Density of Molded Specimens, Stability Test, Huem, Maximum Theoretical Specific Gravity)				
Density of Asphalt Cores	\$51.00	each	2	\$102.00
<b>Field Testing/Observation</b>				
Materials Technician	\$50.00	hour	4	\$200.00
Vehicle Travel Charge	\$40.00	trip	1	\$40.00
<b>Subtotal</b>				<b>\$795.00</b>
<b>PROJECT ADMINISTRATION</b>				
<b>Project Manager</b>				
	\$175.00	hour	0	\$0.00
<b>Project Engineer (Review Reports)</b>				
	\$135.00	hour	1	\$135.00
<b>Subtotal</b>				<b>\$245.00</b>
Reporting and Report Distribution		10% of total cost		\$0.00
<b>GRAND TOTAL</b>				<b>\$2,326.00</b>

**General:**

1. We understand that Williamson County will require the services of experienced engineering technicians as scheduled by you or your representatives. Client will incur a 3 hour minimum charge per each site visit. We request twenty-four (24) hour notification to properly schedule our work.
2. Service charges are based on the hourly rates stated herein and will be assessed from the time the Engineer or Technician leaves our office until he returns from the project.
3. A vehicle travel charge will be assessed for round trip travel from our office to the project site, material supplier, etc. and back to our office.
4. Our total cost of services is based upon the assumption that this project will require a technician on site during normal work hours. Services requested during days and/or hours requiring overtime rates may significantly increase the total cost of services shown herein. Normal work hours are defined as Monday through Friday, 7:00 am to 5:00 pm. Overtime rates at 1.4 times the normal hourly rate will be assessed after eight (8) hours of continuous work per day.