



## **EXHIBIT A**

Unit Rate Schedule

### **City of Lee's Summit, Missouri**

GEOTECHNICAL ENGINEERING, MATERIALS TESTING AND INSPECTION SERVICES YEARLY CONTRACT

**FY 2018**

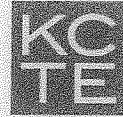


EXHIBIT A Page 1

**UNIT RATES - LEE'S SUMMIT, MISSOURI ANNUAL CONTRACT**

Effective For FY 2018 Contract

**Construction Materials Testing Field Services**

Senior Technician (Special Inspection or MoDOT)		\$54.00/hr
Technician Concrete, Soil and Asphalt Testing		\$50.00/hr
Structural Steel Technician		\$85.00/hr
CWI		\$90.00/hr
Nuclear Density Gauge		\$25.00/day
2-man Coring Crew		\$100.00/hr
Field Engineer/Geologist		\$85.00/hr
Project Manager (by request only)		\$95.00/hr
Senior Engineer P.E. (by request only)		\$125.00/hr
Vehicle Charge (within Lee's Summit)		\$30.00
Vehicle Charge (outside Lee's Summit)		.65/mile
Floor Slab RH Testing - ICRI Certified	5 probes or fewer	\$150/ea
Floor Slab RH Testing - ICRI Certified	More than 5 probes	*
CaCL Vapor Emission Testing Kits/with pH		\$55.00/ea
CaCL Vapor Emission Testing - ICRI Certified Tech		\$52.00/hr
Gmax Athletic Field Turf Testing	per field/per testing episode	\$575.00/ea
Professional Engineer or Geologist (P.E. or P.G.)	for consulting	\$105.00/hr
Senior Engineer P.E. (by request only)	for consulting	\$135.00/hr
<b>Project Management, Supervision, Reporting</b>	<b>Percentage of other fees</b>	<b>12%**</b>
* Available on request. Cost per probe less at higher volume		
** Applies to field and laboratory work not related to geotechnical reports		

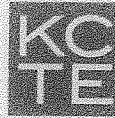


EXHIBIT A Page 2

**UNIT RATES - LEE'S SUMMIT, MISSOURI ANNUAL CONTRACT**

Effective for FY 2018 Contract

**Construction Materials Testing Laboratory Services**

**Concrete and Masonry**

Compressive Strength of 4" x 8" Cylinder	ASTM C39	\$15.00/ea
Compressive Strength of Concrete Cores	ASTM C42	\$26.00/ea
Compressive Strength of Grout 3" x 6" prism	ASTM C1019	\$26.00/ea
Compressive Strength of 2" Cube	ASTM C270	\$16.00/ea
Compressive Strength and Dimensions of CMU	ASTM C140	\$52.00/ea
Net Area, Unit Weight and Absorption of CMU	ASTM C140	\$52.00/ea
Compressive Strength of CMU Prisms (ungrouted)	ASTM C1314	\$75.00/ea
Freeze Thaw of Limestone Prisms	Cutting not included	\$200.00/test
Freeze/Thaw	ASTM C666	\$2500.00/set
<b>Soil and Aggregate</b>		\$125.00/hr
Standard Proctor Test	ASTM D 698	\$180.00/ea
Atterberg Limits	ASTM D4318	\$85.00/ea
Standard Proctor - Fly Ash or Lime Treated (Delay)	ASTM D 698	\$200.00/ea
Relative Density	ASTM D4253/4254	\$200.00/ea
Grain Size Analysis (Through #200)	ASTM C136	\$85.00/ea
Grain Size Analysis - Hydrometer and Sieve	ASTM D422	\$200.00/ea
LA Abrasion	ASTM C131	\$150.00/ea
Soundness	ASTM C88	\$200.00/ea
Light Weight Particles	ASTM C123	\$85.00/ea
Flat and Elongated	ASTM D4791	\$85.00/ea
ASR Testing	ASTM C1260/1567	\$750.00/ea
#200 Wash	ASTM D1140 or C117	\$15.00/ea
<b>Asphaltic Concrete</b>		
Core Density	ASTM D2726	\$26.00/ea
Binder Content and Gradation	ASTM D6307	\$160.00/ea
Marshall Density, Stability, Flow	ASTM D1559	\$140.00
Theoretical Max Density	Rice	

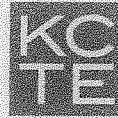


EXHIBIT A Page 3

**UNIT RATES - LEE'S SUMMIT, MISSOURI ANNUAL CONTRACT**

Effective for FY 2018 Contract

**Laboratory Testing - Soil Mechanics**

Moisture Content	ASTM D 2216	\$5.00
Moisture Content & Bulk Density	ASTM D 2216 & D 2937	\$10.00
Atterberg Limits (3 points)	ASTM D 4318	\$85.00
Shrinkage Limit	ASTM D 4318	\$65.00
Specific Gravity - soil	ASTM D 4943	\$50.00
Grain Size Analysis, 3-inch to <No. 200 sieve	ASTM D 6913	\$85.00
Grain Size Analysis, 3/4-inch to <No. 200 sieve	ASTM D 6913	\$65.00
Grain Size Analysis, % fines, <No. 200 sieve only	ASTM 1140	\$50.00
Hydrometer Analysis	ASTM D 422	\$200.00
Organic Matter Content	ASTM D 2974	\$50.00
Hydraulic Conductivity (soil) - Falling Head	ASTM D 5084	\$350.00
Hydraulic Conductivity (soil) - Constant Head	ASTM D 2434	\$400.00
Consolidation Test	ASTM D 2435	\$325.00
Swell/Settlement Consolidation Test, Method A	ASTM D 4546	\$400.00
Swell/Settlement Consolidation Test, Method B	ASTM D 4546	\$100.00
Swell/Settlement Consolidation Test, Method C	ASTM D 4546	\$425.00
Denver Swell (modified Chen Method)	Pre-2008 D 4546 Method B	\$125.00
Unconfined Compressive Strength Test-soil	ASTM D 2166	\$65.00
Unconfined Compressive Strength Test-rock (peak)	ASTM D 7012, Method C	\$85.00
Triaxial Shear - Unconsolidated Undrained (per point)	ASTM D 2850	\$175.00
Triaxial Shear - Consolidated Undrained (per point)	ASTM D 4767	\$400.00
Triaxial Shear - Consolidated Drained (per point)	USACOE Method	\$600.00



EXHIBIT A Page 4

**UNIT RATES - LEE'S SUMMIT, MISSOURI ANNUAL CONTRACT**

Effective for Fiscal Year 2018

**Geotechnical Services**

Senior Engineer	hour	\$135.00
Project Engineer	hour	\$110.00
Staff/Field Engineer	hour	\$85.00
Senior Geologist	hour	\$100.00
Project Geologist	hour	\$80.00
Staff/Field Geologist	hour	\$65.00
Mobilization of Drilling Equipment (w/in 100 miles RT)	lump sum	\$400.00
Drill Crew and Rig Standby	hour	\$150.00
Boring Layout	hour	\$100.00
Drill Crew Per Diem	each	\$200.00
Soil Drilling and SPT Sampling - 0' to 20'	foot	\$11.00
Soil Drilling and SPT Sampling - 21' to 40'	foot	\$12.00
Soil Drilling and SPT Sampling - 41' to 60'	foot	\$14.00
Soil Drilling and SPT Sampling - 61' to 80'	foot	\$17.00
Soil Drilling and SPT Sampling - 81' to 100'	foot	\$21.00
Shelby tube sample	each	\$12.00
Auger Probe - no sampling - 0' to 30'	foot	\$9.00
Auger Probe - no sampling - 31' to 60'	foot	\$10.00
Auger Probe - no sampling - 61' to 90'	foot	\$12.00
Pavement Core and Patch	each	\$75.00
Mud Rotary Drilling Set Up	each	\$85.00
Mud Rotary Drilling - 0' to 20'	foot	\$13.00
Mud Rotary Drilling - 21' to 40'	foot	\$15.00
Mud Rotary Drilling - 41' to 60'	foot	\$17.00
Mud Rotary Drilling - 61' to 80'	foot	\$20.00
Mud Rotary Drilling - 81' to 100'	foot	\$23.00
Rock Coring Set Up	each	\$85.00
Rock Coring - NQ size - 0' to 20'	foot	\$34.00
Rock Coring - NQ size - 21' to 40'	foot	\$36.00
Rock Coring - NQ size - 41' to 60'	foot	\$38.00
Rock Coring - NQ size - 61' to 80'	foot	\$42.00
Rock Coring - NQ size - 81' to 100'	foot	\$46.00
Grout boreholes	foot	\$6.00
Temporary Piezometer	each / foot	\$150 / \$13
Settlement Monitoring Device Installation	each / foot	\$250 / \$10
Field Resistivity (Werner 4-Pin Method)	location	\$200.00
Field Vane Shear Testing	each	\$50.00