



Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Department of Highways, District 5 Office
8310 Westport Road
Louisville, KY 40242-3042
(502) 210-5400

Greg Thomas
Secretary

January 22, 2018

David Moses
Integrated Engineering, PLLC
166 Prosperous Place, Suite 220
Lexington, KY 40509

Dear Mr. Moses:

The Kentucky Transportation Cabinet has prepared for your review and signature the enclosed letter agreement for design services for the Lexington Fayette Urban County Government's Armstrong Mill Project (7-3213).

Please mail the signed original to Amanda Spencer, PE, Kentucky Transportation Cabinet, Division of Program Management, 200 Mero Street, Frankfort, KY 40622. And, email a scanned copy to Amanda.Spencer@ky.gov.

As mentioned in the letter agreement, the Lexington Fayette Urban County Government (LFUCG) is administering this project with oversight from KYTC. The LFUCG should provide any notices to proceed. Requests for reimbursement should be sent to the LFUCG.

Thank you in advance for your work on this project. Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "A. Spencer".

Amanda Spencer
KYTC Program Management

ars
Enclosures (1)

c: Jackie Jones, KYTC OLP
Shane Tucker, KYTC Highway District 7





Matthew G. Bevin
Governor

COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
Frankfort, Kentucky 40622
www.transportation.ky.gov/

Greg Thomas
Secretary

January 5, 2018

LETTER AGREEMENT NO. 4

David Moses
Integrated Engineering, PLLC
166 Prosperous Place, Suite 220
Lexington, KY 40509

Subject: Statewide Local Public Agency (LPA) Services
Fayette County - CS-3037
Item No. 07-3213.00

Dear Mr. Moses:

WHEREAS, on December 2, 2015, the Transportation Cabinet, DEPARTMENT of Highways (hereinafter referred to as the "Department") and Integrated Engineering, PLLC (hereinafter referred to as the "Consultant"), entered into a Master Agreement whereby the Consultant would provide various Statewide Local Public Agency (LPA) Services at the request of the Department.

WHEREAS, under the terms of Master Agreement No. 2016-02-6, PON2 625 1600000938 the Department now desires that the Consultant perform the following items of work on the above subject Project.

STATEMENT OF WORK

This Project provides for LPA Project Services to design for sidewalks along the north and south sides of Armstrong Mill Road between Bates Creek Road and Greentree Road, then on to the intersection of Armstrong Mill side roads, along CS-3037 in Fayette County, Kentucky.

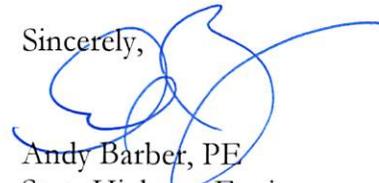
NOW, THEREFORE, in consideration of the aforesaid premises, the Department and the Consultant agree as follows:

1. Comply with the terms, conditions and provisions as set out in the above referenced Master Agreement (No. 2016-02-6).



2. The Department's Project Manager issued the Consultant with Notice to Proceed on this Letter Agreement No. 4 on June 27, 2017.
3. Consultant's proposal and scope of work are made a part of this Letter Agreement No. 4.
4. The work to be performed by Integrated Engineering, PLLC shall be administered by the Lexington-Fayette Urban County Government on behalf of the Kentucky Transportation Cabinet. In exchange for the work provided, the Lexington-Fayette Urban County Government agrees to pay all invoices provided by Integrated Engineering, PLLC for acceptable work pursuant to the contract terms. All funding shall be reimbursed to the Lexington-Fayette Urban County Government by the Kentucky Transportation Cabinet through a separate contract; no funding shall be directly reimbursed to the consultant as a result of this Letter Agreement.
5. It is expected that the Consultant will complete all work by September 13, 2018.
6. Funding: 12F0 C35 D625 FD52 1550 C034 E143
Federal #: 00TAP4003012
State Program #: 9237001D
County/Route: Fayette/CS-3037
7. The maximum amount payable under this Letter Agreement No. 4 is \$120,999.00. Letter Agreement No. 4 increases the total amount for Master Agreement (No. 2016-02-6) to \$370,306.40.

Sincerely,



Andy Barbet, PE
State Highway Engineer

ACCEPTED:

Integrated Engineering, PLLC

By: David Moses

Date: 1/25/2018

**Please sign and return this Letter Agreement to the Division of Professional Services.
Funding will not be encumbered for reimbursement without return of a signed Letter Agreement.**

Armstrong Mill Sidewalks

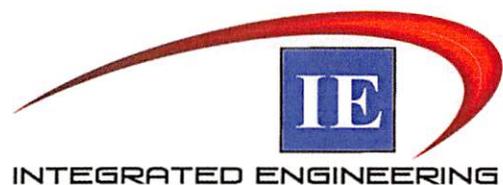
**FAYETTE COUNTY
ITEM NO. 7-3213**

**PHASE I & II DESIGN
ENGINEERING AND RELATED SERVICES**

**PROPOSED
PRODUCTION HOURS AND FEE**

Submitted by:

**Integrated Engineering, PLLC
166 Prosperous Place, Suite 220
Lexington, Kentucky 40509
859-368-0145**



January 4, 2018

Negotiation Minutes

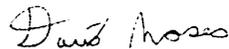
Date: December 20, 2017

Project: Fayette County
Item Number 7-3213.00
Armstrong Mill Sidewalks
PON2 625 1600000938
Agreement # 2016-02-6
Letter Agreement #4

Integrated Engineering met with Mark Feibes of LFUCG on site on July 20, 2017 and sent proposed work units on that day. Mr. Feibes agreed with the units and a fee proposal was submitted to Mr. Feibes on July 21, 2017. After reviewing the fee proposal LFUCG requested a meeting to discuss the project scope. The meeting was held on October 4, 2017. A revised scope was proposed a man-hour estimate was sent to Mark Feibes and Thomas Clements of LFUCG on October 4, 2017. Thomas Clements agreed to the adjusted man-hour estimate of 974 hours for the roadway design on October 6, 2017. A revised geotechnical fee for the revised scope was sent to Mr. Clements on October 10, 2017. After reviewing some changes to the geotechnical fee were requested and another revised Geotech fee of \$12,959.76 was sent on October 23, 2017. This fee was approved by Mr. Clements November 2, 2017.

Work units for the KYTC independent man-hour estimate were sent to Shane Tucker on October 10, 2017. Integrated Engineering sent a full fee proposal based on the 974 hours was sent to Brad Frazier on October 19, 2017. The district 7 independent man hour estimate of 2024 man hours was sent to Professional Services shortly thereafter and the Cabinet agreed to Integrated Engineering's estimate of 974 hours on December 18, 2017. The Geotechnical Branch approved the geotechnical fee on December 22, 2017.

End of Minutes



David Moses
Integrated Engineering

PROJECT SCHEDULE AND PAYMENT PLAN			
MILESTONE	DAYS	DATE	% PAYMENT
Notice to Proceed (estimated)	0	February 15, 2018	0%
Survey Complete	30	March 17, 2018	20%
Submit Preliminary Design	75	May 1, 2018	50%
Submit R/W Plans	150	July 15, 2018	70%
Submit Final Roadway/Structural Plans	180	August 14, 2018	90%
Submit Bid Package	210	September 13, 2018	100%

Notes:

1. % payment is the maximum amount of contract amount that can be paid before completion of given milestone. The % payment shown for each milestone is based on an estimate of the % complete and % of fee earned for all work tasks at that given milestone date.



ENGINEERING AND RELATED SERVICES FEE PROPOSAL

SECTION 1: PROJECT INFORMATION

DATE:	Dec 20, 2017	COUNTY:	Fayette	ITEM #:	7-3213
PROJECT:	Armstrong Mill Sidewalks				

SECTION 2: BUDGET INFORMATION

FEE CONSIDERATIONS	PROPOSED MAN HOURS	NEGOTIATED MAN HOURS	AVERAGE RATE	ESTIMATED COST
Survey	145	145	\$ 39.17	\$ 5,679.65
Line and Grade	136	136	\$ 42.59	\$ 5,792.24
Utility Coordination	24	24	\$ 47.45	\$ 1,138.80
Final Plans	431	431	\$ 47.45	\$ 20,450.95
Meetings	24	24	\$ 61.90	\$ 1,485.60
Structures	212	212	\$ 50.08	\$ 10,616.96
				\$ -
				\$ -
				\$ -
				\$ -
TOTAL PRODUCTION HOURS	972 /	/ 972	\$ 46.47	
TOTAL DIRECT PAYROLL				\$ 45,164.20
OVERHEAD (107.50 %)				\$ 48,551.52
PROFIT (15.00 %)				\$ 14,057.36
COST OF MONEY (/0.59 %)				\$ 266.47

DIRECT COSTS	AMOUNT
TOTAL DIRECT COSTS	\$ -

SUBCONSULTANTS	AMOUNT
Geotechnology	\$ 12,959.76
TOTAL SUBCONSULTANTS	\$ 12,959.76

TOTAL FEE \$ 120,999

*Rounded to the nearest dollar

SECTION 3: SIGNATURE

FIRM NAME: Integrated Engineering		SIGNED BY: David Moses	
	Vice President	12/20/2017	
CONSULTANT SIGNATURE	TITLE	DATE	
PROFESSIONAL SERVICES SIGNATURE	TITLE	DATE	

PRELIMINARY LINE AND GRADE

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
30	Computer setup	LS	1	0	0
31	Prepare existing manuscripts	Mile	0.33	30	10
32	Establish approximate property lines and ownership	Parcel	24	0	0
33	Study and develop typical sections	No.	1	4	4
34	Study and develop horizontal alignments	Mile	0.59	15	9
35	Study and develop vertical alignments	Mile	0.59	15	9
36	Create and evaluate proposed roadway models	Mile	0.59	10	6
37	Design entrances	No.	14	0.57	8
38	Pre-size pipes (all alternates)	No.			0
39	Pre-size culverts (all alternates)	No.			0
40	Pre-size bridges (all alternates)	No.			0
41a	Conduct Traffic Engineering Analysis (Basic; Highway Capacity Manu	Intersec	1	24	24
41b	Conduct Traffic Engineering Analysis (Advanced; Micro-simulation)	Intersection			0
42	Study and development of interchange	No.			0
43	Study and development of intersection	No.	1	12	12
44	Study and develop maintenance of traffic plan	LS	1	20	20
45	Plot/print copies of plans for team meeting and inspections	LS	1	4	4
46	Calculate preliminary quantities and develop cost estimates	Alt.	1	16	16
47	Revise plans and estimates	LS			0
48	Preliminary Right of Way with taking areas	Parcel	6	1	6
49	Prepare Design Executive Summary	LS			0
50	Develop/document "Avoidance Alternatives to Water Related Impacts	LS			0
PRELIMINARY LINE & GRADE MISCELLANEOUS					
51	Prepare Preliminary Design Technical Memorandum	LS	1	8	8
52	Research for Public Agency & Permit Requirements	LS	1	0	0
53					0
54					0
55					0
PRELIMINARY LINE AND GRADE TOTAL					136

UTILITY COORDINATION

No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
56	Utility Coordination Meeting	1	No.	4	4	16
57	Develop Utility Relocation Layout Sheets (1"=200')		Mile	0.33	24	8
58	Develop Utility Relocation Plans (1"=50')		Mile			0
UTILITY COORDINATION MISCELLANEOUS						
59						
UTILITY COORDINATION TOTAL						24

RIGHT OF WAY PLANS

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS	
60	Deed research	Parcel	6	0	0	
61	Establish property and ownership	Parcel	6	0	0	
62	Calculate Right of Way	Parcel	6	0	0	
63	Prepare legal descriptions	Parcel	6	0	0	
64	Complete Right of Way summary sheet	Parcel	6	0	0	
65	Generate Right of Way strip map (scale 1" = 50')	Sheet	1	0	0	
66	Prepare Right of Way Plans Submittal	LS	1	0	0	
67	Right of Way revisions after Right of Way submittal	LS	1	0	0	
R/W PLANS MISCELLANEOUS						
68	Deed Research for Existing Alignments	LS			0	
69	Deed Research for Existing Parcels	Parcel			0	
70	Prepare Legal Descriptions for Right of Way transfer	Parcel			0	
71						
72						
RIGHT OF WAY PLANS TOTAL						0

FINAL PLAN PREPARATION

No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
80	Computer setup	LS	1	0	0
81	Update existing topography and terrain model	Mile	0.33	6	2
82	Refine alignments (horizontal & vertical)	Mile	0.59	20	12
83	Develop pavement design	No.			0
84	Finalize templates & transitions	No.			0
85	Develop final roadway model	Mile	0.59	40	24
86	Develop proposed design	Mile	0.33	100	33
87	Generate plan sheets (scale 1" = 20')	Sheet	3	6	18
88	Generate profile sheets (scale 1" = xxx')	Sheet	3	6	18
89	Detail cross sections (scale 1" = xxx')	No.	54	0.75	41
90	Design entrances	No.	19	0.1	2
91	Revise roadway plans from soils report	Mile			0
DRAINAGE					
92	Develop pipe sections (< 54")	No.	4	0	0
93	Develop drainage system map	Mile	0.33	0	0
94	Develop drainage situation (bridge)	No.	2	10	20
95	Develop drainage situation (culvert)	No.			0
96	Develop blue line stream channel change (=> 200')	No.			0
97	Drainage analysis (entrance pipes)	No.			0
98	Drainage analysis (A <= 200 acres)	No.	4	2	8
99	Drainage analysis (200 acres < A < 1.0 sq. mile)	No.			0
100	Drainage analysis (A => 1.0 sq. mile) level 1 analysis	No.			0
101	Drainage analysis (A => 1.0 sq. mile) level 2 analysis	No.	2	40	80
102	Drainage analysis (A => 1.0 sq. mile) level 3 analysis	No.			0
103	Special drainage studies	No.			0
104	Roadway ditches and channels	Mile			0
105	Develop Erosion Control Plan	Mile			0
106	Inlet spacing calculations	No.	4	0.5	2
107	Storm sewers calculations	No.	4	6	24
108	Perform scour analysis	No.			0
109	Assemble preliminary and final drainage folders	LS			0
110	Prepare advanced situation folder - bridge	No.	3	0	0
111	Prepare advanced situation folder - culvert	No.			0
DRAINAGE MISCELLANEOUS					
112	Prepare No Rise Certification	LS	1	10	10
113					0
114					0
115					0

FINAL PLAN PREPARATION (Continued)					
No.	ITEM	UNIT	AMOUNT	HRS/UNIT	HOURS
116	Prepare layout sheet	LS	1	6	6
117	Prepare typical sections	No.	1	2	2
118	Prepare Interchange geometric approval	No.			0
119	Prepare intersection geometric approval	No.			0
120	Prepare coordinate control sheet	Mile	0.33	15	5
121	Prepare elevation developments	No.			0
122	Prepare striping plan	No.	1	8	8
123	Calculate final quantities	Mile	0.33	30	10
124	Complete general summary	LS	1	6	6
125	Complete paving summary	LS	1	4	4
126	Complete drainage summary	LS	1	4	4
127	Complete pavement under-drain summary	LS			0
128	Prepare cost estimate	LS	1	8	8
129	Plot/print copies of plans	LS	1	8	8
130	Plan revisions	Mile	0.33	40	13
131	Prepare final construction plans submittal	LS	1	24	24
MAINTENANCE OF TRAFFIC					
132	Write maintenance of traffic notes (TCP)	LS	1	8	8
133	Prepare construction phasing plans	Mile	0.33	20	7
134	Develop diversion plan sheets	Sheet			0
135	Develop diversion profile sheets	Sheet			0
136	Develop diversion cross sections	No.			0
137	Develop temporary drainage	No.			0
FINAL PLANS MISCELLANEOUS					
138	Document available rock quantities	LS			0
139	Prepare Bid Proposal	LS	1	8	8
140	LPA Paperwork & Coordination	LS	1	8	8
141	Permits Preparation	LS	1	8	8
142					0
143					0
FINAL PLANS TOTAL					431

MEETINGS						
No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
150	Prelim. line and grade inspection	2	No.	1	3	6
151	Drainage inspection	2	No.			0
152	Final inspection	2	No.	1	3	6
153	Misc. project coordination meetings	2	No.			0
154	Project team meetings	2	No.	2	3	12
MEETINGS MISCELLANEOUS						
155	Value Engineering Study		LS			0
156	Constructability Review		LS			0
MEETINGS TOTAL						24
PUBLIC INVOLVEMENT						
No.	ITEM	PERSONS	UNIT	AMOUNT	HRS/UNIT	HOURS
160	Develop and Maintain Mailing List		LS			0
161	Prepare for Advisory Committee/Officials Meeting		No.			0
162	Attend Advisory Committee/Officials Meeting	2	No.			0
163	Prepare for Public Meetings/Hearings		No.			0
164	Attend Public Meetings/Hearings	2	No.			0
165	Prepare and Distribute Newsletter		No.			0
166	Property owner coordination		No.			0
PUBLIC INVOLVEMENT MISCELLANEOUS						
167						0
168						0
169						
PUBLIC INVOLVEMENT TOTAL						0
QA/QC						
No.	ITEM		UNIT	AMOUNT	HRS/UNIT	HOURS
180	Structures (See Attached Structural Production Hours)		LS	1	212	212
181	Structure review					0
QA/QC TOTAL						212
PRODUCTION-HOUR SUMMARY						
SURVEY TOTAL						145
LINE AND GRADE TOTAL						136
UTILITY COORDINATION TOTAL						24
RIGHT OF WAY PLANS TOTAL						0
FINAL PLANS TOTAL						431
MEETINGS TOTAL						24
PUBLIC INVOLVEMENT TOTAL						0
STRUCTURES TOTAL						212
GRAND TOTAL						972

Structural Production-Hour Process:

- 1) The consultant shall provide a project scope and detailed description of each structure on this sheet.
- 2) This description shall be used to agree with Structural Design on items and units for each structure.
- 3) The consultant shall submit a copy of this workbook, with units and descriptions only, to Structural Design.
- 4) The consultant and Structural Design shall submit independent estimates to Professional Services.
- 5) Professional Services shall then negotiate structural production-hours to negotiate a fee on the project.

Armstrong Mill Road Improvements

s1: A prefabricated pedestrian bridge will be placed parallel with the existing bridge crossing over the Branch of West Hickman Creek along the North side of the structure. The bridge will span approximately 80ft with the abutments being placed behind the wing walls of the existing bridge. The existing wing walls will likely need to be modified to accommodate the bottom chord of the pedestrian bridge, which is expected to be 1.67 ft below the deck elevation. Due to the slope and positioning of the creek, the West Abutment will likely have a turn back wing wall to retain the additional fill.

PRODUCTION-HOUR WORKSHEET

COUNTY Fayette	ITEM NO.
ROUTE Armstrong Mill Road Improvements	CONSULTANT Integrated Engineering
DESCRIPTION Structure Design	PREPARED BY Sewell
PROJECT TYPE LPA	DATE November 21, 2017

ARMSTRONG MILL ROAD IMPROVEMENTS

No.	ITEM	UNIT	AMOUNT	HOURS/UNIT	HOURS
PRELIMINARY STRUCTURE PLANS					
1	Plan, Geometric Data, Concept Alternates, Cost Estimates	Sheet	1	60	60
Sub Total					60
FINAL STRUCTURE PLANS					
<i>Substructures</i>					
2	Breastwall/Stub Abutments	EA	2	40	80
<i>Superstructure - 1 Span</i>					
3	Prefabricated Bridge	No. Spans	1		
<i>Miscellaneous</i>					
4	Title Sheet	Sheet	1	16	16
5	General Notes Sheet	Sheet	1	8	8
6	Layout Sheet	Sheet	1	32	32
7	Foundation Layout	Sheet	1	16	16
Sub Total					152
ADDITIONAL DESIGN ITEMS					
TOTAL STRUCTURAL HOURS					212

PRODUCTION-HOUR WORKSHEET

COUNTY Fayette	ITEM NO.
ROUTE Armstrong Mill Road Improvements	CONSULTANT Integrated Engineering
DESCRIPTION Structure Design	PREPARED BY Sewell
PROJECT TYPE LPA	DATE November 21, 2017

TOTAL STRUCTURAL PRODUCTION-HOUR SUMMARY

No.	ITEM	UNIT	AMOUNT	HOURS/UNIT	HOURS
Final Plans					
1	Armstrong Mill Road Improvements	LS	1		212
2		LS			
3		LS			
Total Structure Hours					212
Shop Plans					
1		LS			0
2		LS			
Total Shop Plan Hours					0



October 9, 2017

Mr. David Moses, PE, PLS
Integrated Engineering, PLLC
166 Prosperous Place
Suite 220
Lexington, Kentucky 40509

Re: Cost Estimate 1
Geotechnical Exploration
Armstrong Mill Road Improvements - Pedestrian Bridge
Fayette County, Kentucky
Geotechnology Proposal No. P030478.01

This letter and the attached Kentucky Transportation Cabinet (KYTC) Forms TC 66-521 and TC 66-204 represent our cost estimate to perform geotechnical drilling, laboratory testing, and engineering for the proposed pedestrian bridge associated with the Armstrong Mill Road Improvements project in Fayette County, Kentucky. We understand the pedestrian bridge will be a single-span structure that will cross a tributary of West Hickman Creek approximately 150 feet west of the intersection of Armstrong Mill Road and Greentree Road. The geotechnical services are estimated to be \$12,959.76 as detailed on the attached forms.

We appreciate the opportunity to consult with you on this project. If you have any questions and/or comments, please do not hesitate to contact us.

Respectfully submitted,
GEOTECHNOLOGY, INC.

William T. Basich, PE
Senior Project Manager

Lee J. Czor, PE
Branch Manager

WTB/LJC:wtb

Attachments: Cost Estimate on KYTC Forms TC 66-521 and TC 66-204

KENTUCKY TRANSPORTATION CABINET
Division of Structural Design
Geotechnical Branch

UNIT COST ITEMS FOR GEOTECHNICAL SERVICES

COUNTY	<u>Fayette</u>	ITEM #	-	MARS #	-		
REGION #	<u>2</u>	RANK	<u>1</u>	Agreement #	<u>1</u>	ESTIMATE #	<u>1</u>
		UNIT PRICE			TOTAL		
1	Rock Coring	<u>\$ 44.45</u>	per foot	x	<u>30</u>	=	<u>\$ 1,333.50</u>
2	Rock Core Floating Equipment	<u>\$ 66.67</u>	per foot	x		=	<u>\$</u>
3	Rock Sounding	<u>\$ 14.02</u>	per foot	x		=	<u>\$</u>
4	Rock Sounding Floating Equipment	<u>\$ 21.03</u>	per foot	x		=	<u>\$</u>
5	Standard Penetration Test	<u>\$ 112.17</u>	per sample	x	<u>2</u>	=	<u>\$ 224.34</u>
6	SPT on Floating Equipment	<u>\$ 168.25</u>	per foot	x		=	<u>\$</u>
7	Thin-Walled Tube Sample	<u>\$ 153.21</u>	per sample	x	<u>4</u>	=	<u>\$ 612.84</u>
8	Thin Walled tubes on Floating Equipment	<u>\$ 229.81</u>	per foot	x		=	<u>\$</u>
9	Field Vane Shear Test	<u>\$ 280.42</u>	per test	x		=	<u>\$</u>
10	Field Vane Shear Test on Floating Equipment	<u>\$ 420.62</u>	per test	x		=	<u>\$</u>
11	Cased Observation Well	<u>\$ 159.43</u>	per well	x		=	<u>\$</u>
12	Drill Hole for Slope Inclinator Casing	<u>\$ 11.10</u>	per foot	x		=	<u>\$</u>
13	Pavement Cores	<u>\$ 115.57</u>	per foot	x		=	<u>\$</u>
14	Grouting Intervals, 6 Inch Auger	<u>\$ 8.72</u>	per foot	x	<u>50</u>	=	<u>\$ 436.00</u>
15	Grouting Intervals, 4 Inch Auger	<u>\$ 8.72</u>	per foot	x		=	<u>\$</u>
16	Grouting Intervals, Rock Core	<u>\$ 8.72</u>	per foot	x		=	<u>\$</u>
17	Moisture Content Sample	<u>\$ 80.12</u>	per sample	x		=	<u>\$</u>
18	Bag Sample	<u>\$ 70.10</u>	per sample	x		=	<u>\$</u>
19	Visual Inspection and Logging Rock Exposure	<u>\$ 9.62</u>	per foot	x		=	<u>\$</u>
20	Logging Cores (250 ft per 8 hrs)	<u>\$ 3.52</u>	per foot	x	<u>30</u>	=	<u>\$ 105.60</u>
21	GINT Production of Logs	<u>\$ 300.00</u>	lump sum	x	<u>1</u>	=	<u>\$ 300.00</u>
22	Undisturbed Tube Extraction	<u>\$ 30.74</u>	per tube	x	<u>4</u>	=	<u>\$ 122.96</u>

UNIT COST ITEMS FOR GEOTECHNICAL SERVICES

COUNTY	<u>Fayette</u>	ITEM #	-			
23	Moisture Content Test	<u>\$ 15.37</u>	per test	x	<u>2</u>	= <u>\$ 30.74</u>
24	Soil Classification	<u>\$ 245.88</u>	per test	x	<u>4</u>	= <u>\$ 983.52</u>
25	Wash Gradation	<u>\$ 61.47</u>	per test	x		= <u>\$</u>
26	Moisture Density, CBR, and Soil Classificaton	<u>\$ 583.97</u>	per test	x		= <u>\$</u>
27	Moisture Density	<u>\$ 184.41</u>	per test	x		= <u>\$</u>
28	Slake Durability Index and Jar Slake Test	<u>\$ 76.84</u>	per test	x		= <u>\$</u>
29	Unconfined Compression Test on Rock	<u>\$ 122.94</u>	per test	x		= <u>\$</u>
30	Unconfined Compression Test on Soil	<u>\$ 61.47</u>	per test	x		= <u>\$</u>
31	UU Triaxial Test	<u>\$ 122.94</u>	per test	x		= <u>\$</u>
32	One Dimensional Consolidation	<u>\$ 553.23</u>	per test	x		= <u>\$</u>
33	CU Triaxial Test with Pore Pressure Measurements	<u>\$ 368.82</u>	per test	x		= <u>\$</u>
34	CU Triaxial Test (Large Scale) with Pore Pressure Measurements	<u>\$ 614.70</u>	per test	x		= <u>\$</u>
35	Resilient Modulus Test	<u>\$ 614.70</u>	per test	x		= <u>\$</u>
36	Remolding Sample for Permeability or Triaxial Testing	<u>\$ 61.47</u>	per sample	x		= <u>\$</u>
37	Direct Shear Test	<u>\$ 215.15</u>	per test	x		= <u>\$</u>
38	Direct Shear Test (Large Scale)	<u>\$ 614.70</u>	per test	x		= <u>\$</u>
39	Constant Head Permeability Test on Granular Soil	<u>\$ 307.35</u>	per test	x		= <u>\$</u>
40	Falling Head Permeability Test on Cohesive Soil	<u>\$ 491.76</u>	per test	x		= <u>\$</u>
41	Falling Head Permeability Test on Rock	<u>\$ 1014.26</u>	per test	x		= <u>\$</u>
42	Slope Stability Analysis	<u>\$ 529.12</u>	per analysis	x		= <u>\$</u>
43	Settlement Analysis	<u>\$ 716.54</u>	per analysis	x		= <u>\$</u>
44	Deep Foundation Analysis	<u>\$ 716.54</u>	per analysis	x		= <u>\$</u>

UNIT COST ITEMS FOR GEOTECHNICAL SERVICES

COUNTY	<u>Fayette</u>	ITEM #	-		
45	Wave Equation Driveability Analysis	\$ 716.54	per analysis	x	= \$
46	Negative Skin Friction Analysis	\$ 415.22	per analysis	x	= \$
47	Bearing Capacity Analysis	\$ 529.12	per analysis	x	= \$
48	Retaining Wall Analysis	\$ 830.44	per analysis	x	= \$
49	Dozer Working Time	\$ 149.96	per hour	x	= \$
50	Trackhoe Working Time	\$ 169.96	per hour	x	= \$
51	Water Hauling	\$ 77.86	per hour	x	= \$
52	Mobilization/Demobilization of Drill Eq.	\$ 4.00	per mile/crew	x 168	= \$ 672.00
			Mobilization Administration Fee x No. of Crews		= \$ 250.00
53	Mobilization/Demobilization of Company Owned Water Truck	\$ 4.00	per mile	x	= \$
			Mobilization Administration Fee		= \$
54	Mobilization/Demobilization of Subcontracted Dozer or Track Hoe	\$	per hour	x	= \$
55	Mobilization/Demobilization of Company Owned Dozer or Track Hoe	\$ 4.00	per mile	x	= \$
			Mobilization Administration Fee		= \$
56	Mobilization/Demobilization of Company Owned Floating Eq.	\$	per trip	x	= \$
57	Weekly Mobilization	\$ 213.86	per week	x	= \$
58	Towboat and /or Barge & crew (Subcontracted)	\$	per day	x	= \$
			Administration Fee		= \$
59	Towboat and /or Barge & crew (In-House)	\$	per day	x	= \$
			Administration Fee		= \$
60	Reclamation : Activity	\$ 159.32	per hour	x	= \$
61	Reclamation : Material Cost	\$	per invoice	x	= \$
62	Traffic Control (In-House)	\$ 159.32	per hour	x	= \$
			Rental Equipment		= \$
63	Subcontracted Traffic Control	\$ 1000.00	per invoice	x 1	= \$ 1,000.00
			Administration Fee		= \$ 100.00
64	Guardrail Removal	\$ 200.00	per location	x 0	= \$
65	Rental Equipment	\$	per invoice	x	= \$
66	Delivery of Cores to Geotechnical Br.	\$ 319.40	per project	x 1	= \$ 319.40

UNIT COST ITEMS FOR GEOTECHNICAL SERVICES

COUNTY	<u>Fayette</u>	ITEM #	-					
67	Core Boxes	\$ 42.00	per box	x	2	=	\$ 84.00	
68	Property Contacts	\$ 500.00	lump sum	x	1	=	\$ 500.00	
69	Utility Coordination	\$ 397.10	lump sum	x	1	=	\$ 397.10	
70	Preliminary Plans	\$ 635.83	lump sum	x	1	=	\$ 635.83	
71	Local Meetings	\$ 1258.05	per meeting	x		=	\$	
72	Rock Core Meeting	\$ 1139.88	per meeting	x		=	\$	
73	Interim Meetings	\$ 2448.90	per meeting	x		=	\$	
74	Drafting	\$ 681.53	per sheet	x	1	=	\$ 681.53	
75	Report Writing	\$ 2579.54	lump sum	x	1	=	\$ 2,579.54	
76	Publication of Reports	\$ 179.90	per report	x	1	=	\$ 179.90	
77	Site Reviews Travel	\$ 126.00	per day/ per person	x x	1	=	\$	
78	Site Reviews Mileage	\$ 67.20	per trip	x	1	=	\$ 67.20	
79	Site Review Project Manager	\$ 588.16	per day	x	1	=	\$ 588.16	
80	Site Review Project Engineer	\$ 455.60	per day	x	1	=	\$ 455.60	
81	Site Review Geologist	\$ 439.40	per day	x		=	\$	
82	GINT Testing	\$ 300.00	lump sum	x	1	=	\$ 300.00	
83	Lateral Capacity Estimate for Single Foundation Element	\$ 716.54	per test	x		=	\$	
84	Lateral Capacity Estimate for Foundation Element Group	\$ 1058.24	per test	x		=	\$	
85	Group Uplift Capacity Estimate	\$ 830.44	per test	x		=	\$	

TOTAL THIS ESTIMATE = \$ **12,959.76** ✓

ACCUMULATED TOTAL ESTIMATES THROUGH _____ = \$ _____

FIRM NAME Geotechnology, Inc.

SIGNED William D. Basin

DATE 10/9/2017

CLASSIFICATIONS AND PERCENTAGES

COUNTY	Fayette
CONSULTANT	Geotechnology, Inc.
Mars No	2
DRILL REGION	Urban
DESIGN CLASSIFICATION (Enter Urban or Rural)	Urban
Rank	1
Agreement No.	1
Estimate No.	1

ESTIMATED WORK BEGIN DATE	10/1/2017
ESTIMATED WORK END DATE	10/1/2018
DATE OF PAID RATES	4/1/2018
PERCENTAGE PAID RATES	4/25/2018
ESSENTIAL PER YEAR	0.00%
ALLOWABLE ESCALATION	0.00%
OVERHEAD RATE	198.29% (OH + FCCM)
PROFIT for Eng	15%
PROFIT for Lab	15%
PROFIT for Drilling	15%

ITEM NO.	1
PROJECT	Armstrong Mill Pedestrian Bridges

POSITION	AVG. RATE	ESC RATE	LOADED RATE	ITEM Project Manager	ITEM Project Engineer	ITEM Driller	ITEM Helper	ITEM Geologist	ITEM Lab Tech	ITEM Drafting Technician	ITEM Administrative Assistant	
Administration	\$23.55	\$23.55	\$80.24	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Associate Sr. Project Manager A	\$51.47	\$175.38	\$0.00	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Associate Sr. Project Manager B	\$47.53	\$161.95	\$0.00	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Associate Sr. Project Manager C	\$42.44	\$42.44	\$144.61	95.0%	30.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Associate Sr. Project Manager D	\$43.75	\$43.75	\$149.07	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Cadd Operator A	\$25.10	\$25.10	\$85.52	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Cadd Operator B	\$23.80	\$23.80	\$81.09	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
CMT Engineer A	\$34.04	\$34.04	\$115.99	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
CMT Engineer B	\$27.49	\$27.49	\$93.67	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
CMT Engineer C	\$17.93	\$17.93	\$61.09	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Drilling Coordinator	\$31.16	\$31.16	\$106.17	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Drilling Manager	\$37.40	\$37.40	\$127.43	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Engineer / Scientist A	\$26.17	\$26.17	\$89.17	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Engineer / Scientist B	\$28.68	\$28.68	\$97.72	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Engineer / Scientist C	\$21.50	\$21.50	\$73.26	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Engineer / Scientist D	\$17.65	\$17.65	\$60.62	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Field Rep I	\$15.15	\$15.15	\$51.62	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Field Rep II	\$16.04	\$16.04	\$51.47	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Field Rep III	\$20.82	\$20.82	\$71.78	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Field Safety Specialist	\$26.17	\$26.17	\$89.17	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Job Manager	\$17.68	\$17.68	\$60.24	100.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Lab Manager A	\$29.26	\$29.26	\$99.70	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Laboratory Technician	\$14.87	\$14.87	\$50.67	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
NRI Technician - Level 1	\$17.85	\$17.85	\$60.82	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
NRI Technician - Level 3	\$30.00	\$30.00	\$102.22	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Branch Manager A	\$63.05	\$63.05	\$214.63	44.30	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Branch Manager B	\$53.22	\$53.22	\$181.34	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Branch Manager C	\$52.42	\$52.42	\$178.61	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Engineer / Scientist A	\$48.33	\$48.33	\$164.68	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Engineer / Scientist B	\$58.22	\$58.22	\$198.38	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Principal Vice President B	\$66.16	\$66.16	\$225.43	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Eng / Scientist A	\$28.68	\$28.68	\$97.72	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Eng / Scientist B	\$28.34	\$28.34	\$96.56	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Eng / Scientist C	\$31.78	\$31.78	\$108.29	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Manager E	\$41.03	\$41.03	\$139.60	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Manager F	\$40.44	\$40.44	\$137.79	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Project Manager G	\$32.55	\$32.55	\$110.91	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Consultant A	\$77.45	\$77.45	\$263.90	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Consultant B	\$59.45	\$59.45	\$202.57	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Driller	\$23.31	\$23.31	\$79.42	100.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Driller Helper	\$18.51	\$18.51	\$63.07	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Eng / Scientist B	\$32.24	\$32.24	\$109.85	0.0%	0.0%	0.0%	0.0%	100.0%	\$109.85	0.0%	0.0%	
Senior Eng / Scientist C	\$31.76	\$31.76	\$108.22	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Field Rep	\$28.03	\$28.03	\$98.03	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Senior Project Engineer A	\$16.60	\$16.60	\$56.60	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Supervisor A	\$14.29	\$14.29	\$48.87	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
Supervisor B	\$14.65	\$14.65	\$49.92	0.0%	0.0%	0.0%	0.0%	0.0%	\$0.00	0.0%	0.0%	
TOTAL			\$147.04	100.0%	\$113.90	100.0%	\$79.42	100.0%	\$60.24	100.0%	\$81.09	100.0%

Per Diem	KYTC Published Rates
Lodging	\$36.00 per day
Mileage	\$0.40 per mile
4 X 4 Pickup Mileage	\$0.53 per mile
Drill Hourly Rate	\$100.00 per hour
Water Pump Hourly Rate	\$4.25 per hour
Heavy Equipment	\$250.00 per day
Mobilization Administrative Fee	\$1,000.00 Fixed
Administrative Fee for Subcontracted Traffic	\$200.00 Fixed
Guard Rail Removal	\$100.00 Fixed
Administrative Fee for Subcontracted Traffic	\$100.00 Fixed

Production Rates	
Rock Coring	65
Rock Sounding	200
Moisture Content	35
Bag Sample	0.25
Standard Penetration Test	25
Thin-Walled Tube Sample	20
Field Vane Shear Test	10
Cased Observation Well	0.25
Hole for SI Casing	115
Sealing Bore Holes	400
Pavement Cores	25
Visual Inspection	200

KENTUCKY TRANSPORTATION CABINET
 Division of Structural Design
 Geotechnical Branch

TABULATION OF QUANTITIES FOR INVOICES

COUNTY Fayette ITEM NO. -

Page 4a of 5

52	MOBILIZATION/DEMOBILIZATION OF DRILL EQUIPMENT	<u>168</u>	MILES
		<u>1</u>	CREWS
53	MOBILIZATION/DEMOBILIZATION OF WATER TRUCK	<u>0</u>	MILES
54	MOBILIZATION/DEMOBILIZATION OF SUBCONTRACTED DOZER/TRACKHOE	<u>\$0.00</u>	HOURLY RATE
55	MOBILIZATION/DEMOBILIZATION OF COMPANY OWNED DOZER	<u>0</u>	MILES
56	MOBILIZATION/DEMOBILIZATION OF COMPANY OWNED BARGE AND/OR TOWBOAT	<u>\$0.00</u>	NEGOTIATED PRICE
57	WEEKLY MOBILIZATION	<u>0</u>	WEEKS
58	SUBCONTRACTED TOWBOAT/BARGE	<u>\$0.00</u>	INVOICE
59	COMPANY OWNED TOWBOAT/BARGE/CREW	<u>\$0.00</u>	NEGOTIATED PRICE PER DAY
60	RECLAMATION ACTIVITY (10 HOURS EACH FOR 2 MEN)	<u>0</u>	HOURS
61	MATERIAL COST	<u>\$0.00</u>	INVOICE
62	TRAFFIC CONTROL (IN HOUSE) (10 HOURS EACH FOR 2 MEN)	<u>0</u> <u>\$0.00</u>	HOURS RENTAL EQUIPMEN
63	TRAFFIC CONTROL (SUBCONTRACTED)	<u>\$1,000.00</u>	INVOICE
64	GUARDRAIL REMOVAL	<u>0</u>	LOCATIONS
65	RENTAL EQUIPMENT	<u>\$0.00</u>	INVOICE
66	DELIVERY OF ROCK CORES TO GEOTECHNIAL BR.	<u>1</u>	PROJECT(Yes/No - 1
67	CORE BOXES	<u>2</u>	BOXES

TABULATION OF QUANTITIES FOR INVOICES

COUNTY Fayette

ITEM NO. -

Page 4b of 5

68	PROPERTY CONTACTS	<u>\$500.00</u>	LUMP SUM
69	UTILITY COORDINATION	<u>1</u>	Yes/NO - 1/0
70	PRELIMINARY PLANS	<u>1</u>	Yes/NO - 1/0
71	LOCAL MEETINGS	<u>0</u>	MEETINGS
72	ROCK CORE MEETINGS	<u>0</u>	MEETINGS
73	INTERIM MEETINGS	<u>0</u>	MEETINGS
74	DRAFTING	<u>1</u>	SHEETS
75	REPORT WRITING	<u>1</u>	Yes/NO - 1/0
76	PUBLICATION OF REPORTS	<u>1</u>	Reports
77	SITE REVIEWS TRAVEL	<u>0</u>	DAYS
		<u>1</u>	PERSONS
78	SITE REVIEWS MILEAGE	<u>1</u>	TRIPS
79	SITE REVIEW PROJECT MANAGER	<u>1</u>	DAYS
80	SITE REVIEW PROJECT ENGINEER	<u>1</u>	DAYS
81	SITE REVIEW GEOLOGIST	<u>0</u>	DAYS
82	GINT TESTING	<u>1</u>	Yes/NO - 1/0

Firm Name	
Signed	
Date	

70. PRELIMINARY PLANS

1) Project Engineer					
Audited Wage Rate	Roadway Boring Plan			Hrs	
	Review Previous Information and Mapping				
	Culvert Boring Plan (2.0 Hrs per Culvert)				
	Bridge Boring Plan (4.0 Hrs per Bridge)			3	
	Wall Boring Plan (3.0 Hrs per Wall)				
			Hours	3	
					Sub-total \$341.70
2) Project Manager					
Audited Wage Rate	Roadway Plan Review			Hrs	
	Culvert Plan Review (0.5 Hrs per Culvert)			0	
	Bridge Plan Review (1.0 Hrs per Bridge)			1	
	Wall Plan Review (1.0 Hrs. per Wall)				
			Hours	1	
					Sub-total \$147.04
3) Drafting		Hrs			
Audited Wage Rate		1			Sub-total \$81.09
4) Administrative Services		Hrs			
Audited Wage Rate		1			Sub-total <u>\$66.00</u>
				Cost	\$635.83 Lump Sum

71. LOCAL MEETINGS (Conducted at Office or KYTC)

1) Project Manager		Hrs			
Audited Wage Rate		4			Sub-total \$588.16
2) Project Engineer		Hrs			
Audited Wage Rate		4			Sub-total \$455.60
3) Drafting		Hrs			
Audited Wage Rate		1			Sub-total \$81.09
4) Administrative Services		Hrs			
		1			Sub-total \$66.00
5) Mileage		Mile/Trip			
		168			Sub-total <u>\$67.20</u>
				Cost	\$1,258.05 Per Meeting

72. ROCK CORE MEETING

1) Project Manager	Hrs			
Audited Wage Rate	4		Sub-total	\$588.16
2) Project Engineer				
Audited Wage Rate	4		Sub-total	\$455.60
3) Administrative Services	Hrs			
Audited Wage Rate	1		Sub-total	\$66.00
4) Helper	Hrs	Layout and Pickup of Cores		
Audited Wage Rate	0.5		Sub-total	<u>\$30.12</u>
			Cost	\$1,139.88 Per Meeting

73. INTERIM MEETING (Conducted within District and On-Site including Joint Meetings)

1) Project Manager	Hrs			
Audited Wage Rate	8		Sub-total	\$1,176.32
2) Project Engineer				
Audited Wage Rate	8		Sub-total	\$911.20
3) Mileage	Mile/Trip			
KYTC Mileage Rate	168		Sub-total	\$67.20
4) Drafting	Hrs			
	2		Sub-total	\$162.18
4) Administrative Services	Hrs			
Audited Wage Rate	2		Sub-total	<u>\$132.00</u>
			Cost	\$2,448.90 Per Meeting

74. DRAFTING

1) Drafting Technician	Hr/Sheet	# Sheets		
Audited Wage Rate	7	1	Sub-total	\$567.63
2) Project Engineer	Hr/Sheet	# Sheets		
Audited Wage Rate	1	1	Sub-total	\$113.90
			Cost	\$681.53 per sheet

Wells, Adrian A (KYTC)

From: Gormley, David E (KYTC)
Sent: Monday, December 18, 2017 3:05 PM
To: Harsha Wijesiri; Spencer, Amanda R (KYTC); David Moses
Cc: Wells, Adrian A (KYTC); Pelfrey, Eric A (KYTC); Sprague, Robin L (KYTC-D07); Frazier, Brad B (KYTC); Scott, Erik T (KYTC-WSC)
Subject: Integrated | Fayette | 7-3213 | LPA | Armstrong Mill | Negotiation
Attachments: Integrated - Fayette - 7-3213 - LPA - Armstrong Mill -Negotiation.xls; Integrated - Fayette - 7-3213 - LPA - Armstrong Mill - Structures - Negotiation.xlsx

Harsha,

The Division of Professional Services has received independent estimates from Integrated Engineering and our LPA Project Manager for the Armstrong Mill improvements in Fayette County. This project was assigned under the Statewide LPA Project Services Master Agreement. After reviewing the total hours, the Integrated team estimated 972 hours against the Department's 2024 hours. Brad Frazier has confirmed by email that the Scope of Work was understood by both parties and that the KYTC estimate was probably not reflective of the less intensive level of effort needed to complete this small LPA project. Therefore, the Division of Professional Services is comfortable accepting all **972 hours** as submitted by Integrated. For your reference, an Excel file of the hours submitted by both parties are attached to this email, with the Department's hours in **black font**, Integrated's hours in **blue font**, and the difference to the right in **red font**. The negative "difference" amounts reflect areas where the Department was higher than Integrated.

Integrated also submitted 212 Bridge Design hours for Structure Design of the pedestrian bridge and KYTC Division of Structures submitted 284 Structure hours. After comparing both individual items and the overall total hours, the estimates are close enough to each other and there appears to be a good understanding of anticipated level of effort to accomplish this work. We are comfortable with the 212 hours offered by Integrated.

In addition to the above hours, Integrated submitted \$12,959.76 for Geotechnical Services. The estimate for these services is being reviewed by Erik Scott and the Fee proposal should be revised to reflect his recommendations when received.

Please coordinate with Adrian to ensure that all items that have already been received are accurate before submitting to her the fully negotiated fee proposal package. To aid in the preparation of consultant fee proposals, several checklists are provided in a new document on the Professional Services webpage at: [Fee Proposal Checklists for Contracts Agreements and Modifications.pdf](#). This includes Checklists for Minutes of Negotiations and Letter Agreements. We look forward to working with you on this project.

Thanks and we sincerely appreciate your honesty & integrity for providing accurate estimates for only the needed services,

David Gormley

Kentucky Transportation Cabinet
Division of Professional Services
200 Mero Street
Frankfort, Kentucky 40622
Phone : 502-782-5107
email : David.Gormley@ky.gov

Wells, Adrian A (KYTC)

From: Scott, Erik T (KYTC-WSC)
Sent: Friday, December 22, 2017 4:35 PM
To: Wells, Adrian A (KYTC); Pelfrey, Eric A (KYTC)
Cc: Gormley, David E (KYTC); Basich, Bill; Czor, Lee; Carpenter, Michael L (KYTC-WSC)
Subject: RE: Armstrong Mill Sidewalks Project - Statewide LPA Services - Approved Geotech Proposal
Attachments: Geotech Cost Estimate - Armstrong Mill Ped Bridges - Fayette.pdf

Adrian / Eric,

I checked with Geotechnology on a couple questions I had, which they addressed. I approve Geotechnology's proposal of \$12,959.76 for the subject LPA project.

If you need anything else just let me know.

Thanks and have a good Christmas & New Year's.

Erik

Erik Scott, P.E.

*Kentucky Transportation Cabinet
Division of Structural Design, Geotechnical Branch*

Office: (502) 564-2374

Direct: (502) 782-3819

Fax: (502) 564-4839

Email: Erik.Scott@ky.gov

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From: Wells, Adrian A (KYTC)
Sent: Thursday, December 21, 2017 1:58 PM
To: Scott, Erik T (KYTC-WSC) <Erik.Scott@ky.gov>
Cc: Gormley, David E (KYTC) <David.Gormley@ky.gov>; Pelfrey, Eric A (KYTC) <Eric.Pelfrey@ky.gov>
Subject: RE: Armstrong Mill Sidewalks Project - Statewide LPA Services

Erik- Just sending a reminder on this one. Thank you!

From: Wells, Adrian A (KYTC)
Sent: Monday, December 11, 2017 9:18 AM
To: Scott, Erik T (KYTC-WSC)
Cc: Gormley, David E (KYTC); Pelfrey, Eric A (KYTC)
Subject: FW: Armstrong Mill Sidewalks Project - Statewide LPA Services

Erik- This is part of an LPA project that has Geotech involved. I've checked the rates and they are correct. I need your approval the Cost Estimate of 12,959.76. Thank you!

From: Frazier, Brad B (KYTC)
Sent: Wednesday, November 29, 2017 2:36 PM
To: Wells, Adrian A (KYTC)
Cc: Pelfrey, Eric A (KYTC); Spencer, Amanda R (KYTC)
Subject: Armstrong Mill Sidewalks Project - Statewide LPA Services

Hello Adrian. Attached is a copy of Integrated's proposed fee for design services for the Armstrong Mill Sidewalks Project in Fayette County, item number 07-3213. Due to the number of man hours, District 7 and the Division of Structural Design did independent estimates which are also attached (Excel files)

Could Professional Services please review the proposed fee and provide negotiations for this assignment? David Moses is the Integrated contact (david@int-engineering.com) and Jackie Jones in OLP is the project manager. After the fee is finalized I'll forward over the template and request a Letter Agreement be drafted.

If you have any questions or need additional information, please let me know. Thanks Adrian.