



**COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET**

Frankfort, Kentucky 40622
www.transportation.ky.gov/

Matthew G. Bevin
Governor

Greg Thomas
Secretary

January 23, 2019

CALL NO. 100
CONTRACT ID NO. 191004
ADDENDUM # 1

Subject: MCCRACKEN COUNTY, NHPP 0601(205)
Letting January 25, 2019

- (1) Revised - Proposal Bid Items - Pages 117-121(a) of 121
- (2) Revised - Plan Sheet - T26

Proposal revisions are available at <http://transportation.ky.gov/Construction-Procurement/>.

If you have any questions, please contact us at 502-564-3500.

Sincerely,

A handwritten signature in cursive script that reads "Rachel Mills".

Rachel Mills, P.E.
Director
Division of Construction Procurement

RM:mr
Enclosures



An Equal Opportunity Employer M/F/D

PROPOSAL BID ITEMS

Report Date 1/23/19

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	15,942.00	TON		\$	
0020	00100		ASPHALT SEAL AGGREGATE	53.80	TON		\$	
0030	00103		ASPHALT SEAL COAT	6.47	TON		\$	
0040	00190		LEVELING & WEDGING PG64-22	1,132.00	TON		\$	
0050	00191		ASPHALT SCRATCH COURSE PG64-22	920.00	TON		\$	
0060	00212		CL2 ASPH BASE 1.00D PG64-22	183.00	TON		\$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	13,020.00	TON		\$	
0080	00221		CL2 ASPH BASE 0.75D PG64-22	343.00	TON		\$	
0090	00301		CL2 ASPH SURF 0.38D PG64-22	186.00	TON		\$	
0100	00326		CL3 ASPH SURF 0.50B PG76-22	4,222.00	TON		\$	
0110	00356		ASPHALT MATERIAL FOR TACK	21.49	TON		\$	
0120	02073		JPC PAVEMENT-9 IN	1,256.00	SQYD		\$	
0130	02677		ASPHALT PAVE MILLING & TEXTURING	754.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	00078		CRUSHED AGGREGATE SIZE NO 2	1,758.00	TON		\$	
0150	01000		PERFORATED PIPE-4 IN	7,966.00	LF		\$	
0160	01010		NON-PERFORATED PIPE-4 IN	123.00	LF		\$	
0170	01024		PERF PIPE HEADWALL TY 2-4 IN	4.00	EACH		\$	
0180	01028		PERF PIPE HEADWALL TY 3-4 IN	3.00	EACH		\$	
0190	01032		PERF PIPE HEADWALL TY 4-4 IN	1.00	EACH		\$	
0200	01690		FLUME INLET TYPE 1	2.00	EACH		\$	
0210	01691		FLUME INLET TYPE 2	4.00	EACH		\$	
0220	01740		CORED HOLE DRAINAGE BOX CON-4 IN	4.00	EACH		\$	
0230	01811		STANDARD CURB AND GUTTER MOD	8,128.00	LF		\$	
0240	01875		STANDARD HEADER CURB	304.00	LF		\$	
0250	01919		STANDARD BARRIER MEDIAN TYPE 3	580.00	SQYD		\$	
0260	01921		STANDARD BARRIER MEDIAN TYPE 4	1,118.00	SQYD		\$	
0270	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	9.00	EACH		\$	
0280	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	8.00	EACH		\$	
0290	02003		RELOCATE TEMP CONC BARRIER	2,000.00	LF		\$	
0300	02012		BARRICADE-TYPE I	9.00	EACH		\$	
0310	02014		BARRICADE-TYPE III	7.00	EACH		\$	
0320	02091		REMOVE PAVEMENT	235.00	SQYD		\$	
0330	02159		TEMP DITCH	4,605.00	LF		\$	
0340	02160		CLEAN TEMP DITCH	13,815.00	LF		\$	
0350	02230		EMBANKMENT IN PLACE	14,985.00	CUYD		\$	
0360	02237		DITCHING	537.00	LF		\$	
0370	02242		WATER	87.00	MGAL		\$	
0380	02351		GUARDRAIL-STEEL W BEAM-S FACE	800.00	LF		\$	
0390	02367		GUARDRAIL END TREATMENT TYPE 1	1.00	EACH		\$	
0400	02369		GUARDRAIL END TREATMENT TYPE 2A	4.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02381		REMOVE GUARDRAIL	537.50	LF		\$	
0420	02383		REMOVE & RESET GUARDRAIL	50.00	LF		\$	
0430	02483		CHANNEL LINING CLASS II	284.00	TON		\$	
0440	02545		CLEARING AND GRUBBING 14.37 ACRES	1.00	LS		\$	
0450	02555		CONCRETE-CLASS B	30.00	CUYD		\$	
0460	02562		TEMPORARY SIGNS	414.00	SQFT		\$	
0470	02585		EDGE KEY	398.00	LF		\$	
0480	02587		HOOK BOLT WITH EXPAN ANCHOR	110.00	EACH		\$	
0490	02599		FABRIC-GEOTEXTILE TYPE IV	2,300.00	SQYD		\$	
0500	02600		FABRIC GEOTEXTILE TY IV FOR PIPE	12,965.00	SQYD	\$2.00	\$	\$25,930.00
0510	02613		HANDRAIL-TYPE A-3	73.00	LF		\$	
0520	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0530	02671		PORTABLE CHANGEABLE MESSAGE SIGN	4.00	EACH		\$	
0540	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0550	02696		SHOULDER RUMBLE STRIPS	2,728.00	LF		\$	
0560	02701		TEMP SILT FENCE	4,605.00	LF		\$	
0570	02703		SILT TRAP TYPE A	14.00	EACH		\$	
0580	02704		SILT TRAP TYPE B	14.00	EACH		\$	
0590	02705		SILT TRAP TYPE C	14.00	EACH		\$	
0600	02706		CLEAN SILT TRAP TYPE A	84.00	EACH		\$	
0610	02707		CLEAN SILT TRAP TYPE B	84.00	EACH		\$	
0620	02708		CLEAN SILT TRAP TYPE C	84.00	EACH		\$	
0630	02720		SIDEWALK-4 IN CONCRETE	297.00	SQYD		\$	
0640	02726		STAKING	1.00	LS		\$	
0650	02775		ARROW PANEL	4.00	EACH		\$	
0660	02898		RELOCATE CRASH CUSHION	4.00	EACH		\$	
0670	02998		MASONRY COATING	70.00	SQYD		\$	
0680	03171		CONCRETE BARRIER WALL TYPE 9T	2,000.00	LF		\$	
0690	05950		EROSION CONTROL BLANKET	3,788.00	SQYD		\$	
0700	05952		TEMP MULCH	69,843.00	SQYD		\$	
0710	05953		TEMP SEEDING AND PROTECTION	6,984.00	SQYD		\$	
0720	05963		INITIAL FERTILIZER	2.40	TON		\$	
0730	05964		MAINTENANCE FERTILIZER	4.00	TON		\$	
0740	05985		SEEDING AND PROTECTION	69,843.00	SQYD		\$	
0750	05990		SODDING	8,142.00	SQYD		\$	
0760	05992		AGRICULTURAL LIMESTONE	48.00	TON		\$	
0770	06401		FLEXIBLE DELINEATOR POST-M/W	75.00	EACH		\$	
0780	06404		FLEXIBLE DELINEATOR POST-M/Y	75.00	EACH		\$	
0790	06510		PAVE STRIPING-TEMP PAINT-4 IN	66,940.00	LF		\$	
0800	06511		PAVE STRIPING-TEMP PAINT-6 IN	14,020.00	LF		\$	
0810	06514		PAVE STRIPING-PERM PAINT-4 IN	33,515.00	LF		\$	
0820	06515		PAVE STRIPING-PERM PAINT-6 IN	6,909.00	LF		\$	
0830	06516		PAVE STRIPING-PERM PAINT-8 IN	2,840.00	LF		\$	
0840	06517		PAVE STRIPING-PERM PAINT-12 IN	320.00	LF		\$	
0850	06566		PAVE MARKING-THERMO X-WALK-12 IN	472.00	LF		\$	
0860	06568		PAVE MARKING-THERMO STOP BAR-24IN	908.00	LF		\$	
0870	06570		PAVE MARKING-PAINT CROSS-HATCH	1,463.00	SQFT		\$	
0880	06572		PAVE MARKING-DOTTED LANE EXTEN	683.00	LF		\$	
0890	06573		PAVE MARKING-THERMO STR ARROW	49.00	EACH		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0900	06574		PAVE MARKING-THERMO CURV ARROW	100.00	EACH		\$	
0910	06575		PAVE MARKING-THERMO COMB ARROW	36.00	EACH		\$	
0920	06576		PAVE MARKING-THERMO ONLY	7.00	EACH		\$	
0930	06583		PAVEMENT MARKER TYPE IV-B W/R	85.00	EACH		\$	
0940	06584		PAVEMENT MARKER TYPE IV-B Y/R	181.00	EACH		\$	
0950	06600		REMOVE PAVEMENT MARKER TYPE V	544.00	EACH		\$	
0960	08001		STRUCTURE EXCAVATION-COMMON	37.00	CUYD		\$	
0970	08100		CONCRETE-CLASS A	369.64	CUYD		\$	
0980	08150		STEEL REINFORCEMENT	509.00	LB		\$	
0990	08151		STEEL REINFORCEMENT-EPOXY COATED	2,022.00	LB		\$	
1000	08902		CRASH CUSHION TY VI CLASS B TL3	2.00	EACH		\$	
1010	08903		CRASH CUSHION TY VI CLASS BT TL3	4.00	EACH		\$	
1020	10020NS		FUEL ADJUSTMENT	39,467.00	DOLL	\$1.00	\$	\$39,467.00
1030	10030NS		ASPHALT ADJUSTMENT	78,215.00	DOLL	\$1.00	\$	\$78,215.00
1040	20071EC		JOINT ADHESIVE	38,671.00	LF		\$	
1050	20099ES842		PAVE MARK TEMP PAINT STOP BAR	264.00	LF		\$	
1060	20191ED		OBJECT MARKER TY 3	1.00	EACH		\$	
1070	20430ED		SAW CUT	15,553.00	LF		\$	
1090	22520EN		PAVE MARKING-THERMO YIELD BAR-36 IN	36.00	LF		\$	
1100	22664EN		WATER BLASTING EXISTING STRIPE	24,000.00	LF		\$	
1110	22861EN		HIGH STRENGTH GEOTEXTILE FABRIC TY V	1,200.00	SQYD		\$	
1120	23143ED		KPDES PERMIT AND TEMP EROSION CONTROL	1.00	LS		\$	
1130	23158ES505		DETECTABLE WARNINGS	274.00	SQFT		\$	
1140	23274EN11F		TURF REINFORCEMENT MAT 1	846.00	SQYD		\$	
1150	23791EC		PAVE STRIPING-CHEVRON MARKINGS	345.00	SQFT		\$	
1160	24109EC		BARRIER CURB AND GUTTER-MOD	5,712.00	LF		\$	
1170	24110EC		PERM PAINT-BARRIER CURB	5,633.00	LF		\$	
1180	24489EC		INLAID PAVEMENT MARKER	921.00	EACH		\$	
1190	24631EC		BARCODE SIGN INVENTORY	105.00	EACH		\$	
1200	24640ED		OBJECT MARKER TYPE 1	2.00	EACH		\$	
1210	24814EC		PIPELINE INSPECTION	4,024.00	LF		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1220	00461		CULVERT PIPE-15 IN	235.00	LF		\$	
1230	00462		CULVERT PIPE-18 IN	111.00	LF		\$	
1240	00464		CULVERT PIPE-24 IN	7.00	LF		\$	
1250	00521		STORM SEWER PIPE-15 IN	1,770.00	LF		\$	
1260	00522		STORM SEWER PIPE-18 IN	1,262.00	LF		\$	
1270	00524		STORM SEWER PIPE-24 IN	802.00	LF		\$	
1280	00526		STORM SEWER PIPE-30 IN	51.00	LF		\$	
1290	01202		PIPE CULVERT HEADWALL-15 IN	12.00	EACH		\$	
1300	01204		PIPE CULVERT HEADWALL-18 IN	3.00	EACH		\$	
1310	01208		PIPE CULVERT HEADWALL-24 IN	4.00	EACH		\$	
1320	01210		PIPE CULVERT HEADWALL-30 IN	1.00	EACH		\$	
1330	01432		SLOPED BOX OUTLET TYPE 1-15 IN	3.00	EACH		\$	
1340	01433		SLOPED BOX OUTLET TYPE 1-18 IN	4.00	EACH		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1350	01434		SLOPED BOX OUTLET TYPE 1-24 IN	1.00	EACH		\$	
1360	01456		CURB BOX INLET TYPE A	38.00	EACH		\$	
1370	01459		CURB BOX INLET TYPE A MOD	11.00	EACH		\$	
1380	01480		CURB BOX INLET TYPE B	2.00	EACH		\$	
1390	01490		DROP BOX INLET TYPE 1	2.00	EACH		\$	
1400	01634		CAP CURB BOX INLET	4.00	EACH		\$	
1410	01650		JUNCTION BOX	3.00	EACH		\$	
1420	01719		ADJUST INLET	1.00	EACH		\$	
1430	01791		ADJUST MANHOLE FRAME TO GRADE	7.00	EACH		\$	
1440	01792		ADJUST MANHOLE	2.00	EACH		\$	
1450	02402		REMOVE STONE MASONRY	.73	CUYD		\$	
1460	03000		PRECAST CONC BOX SECT 13'X3'	20.00	LF		\$	
1470	08100		CONCRETE-CLASS A	2.67	CUYD		\$	
1480	08103		CONCRETE-CLASS D MOD	.73	CUYD		\$	
1490	21800EN		BORE AND JACK PIPE-30 IN	126.00	LF		\$	

Section: 0004 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1500	06405		SBM ALUMINUM PANEL SIGNS	1,122.00	SQFT		\$	
1510	06406		SBM ALUM SHEET SIGNS .080 IN	456.00	SQFT		\$	
1520	06407		SBM ALUM SHEET SIGNS .125 IN	270.00	SQFT		\$	
1530	06410		STEEL POST TYPE 1	1,314.00	LF		\$	
1540	06412		STEEL POST MILE MARKERS	1.00	EACH		\$	
1550	06441		GMSS GALV STEEL TYPE C	3,246.00	LB		\$	
1560	06448		SIGN BRIDGE ATTACHMENT BRACKET	2.00	EACH		\$	
1570	06490		CLASS A CONCRETE FOR SIGNS	11.50	CUYD		\$	
1580	06491		STEEL REINFORCEMENT FOR SIGNS	500.00	LB		\$	
1590	20418ED		REMOVE & RELOCATE SIGNS	8.00	EACH		\$	
1600	21373ND		REMOVE SIGN	50.00	EACH		\$	
1610	21596ND		GMSS TYPE D	4.00	EACH		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1620	04740		POLE BASE	3.00	EACH		\$	
1630	04780		FUSED CONNECTOR KIT	48.00	EACH		\$	
1640	04792		CONDUIT-1 IN	154.00	LF		\$	
1650	04795		CONDUIT-2 IN	1,830.00	LF		\$	
1660	04811		ELECTRICAL JUNCTION BOX TYPE B	37.00	EACH		\$	
1670	04820		TRENCHING AND BACKFILLING (REVISED: 1-23-19)	2,779.00	LF		\$	
1680	04830		LOOP WIRE	19,130.00	LF		\$	
1690	04834		WIRE-NO. 6	1,320.00	LF		\$	
1700	04835		WIRE-NO. 4	1,420.00	LF		\$	
1710	04844		CABLE-NO. 14/5C	16,881.00	LF		\$	
1720	04850		CABLE-NO. 14/1 PAIR	21,827.00	LF		\$	

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1730	04871		POLE 35 FT WOODEN	1.00	EACH		\$	
1750	04885		MESSENGER-10800 LB	994.00	LF		\$	
1760	04886		MESSENGER-15400 LB	1,148.00	LF		\$	
1770	04895		LOOP SAW SLOT AND FILL	7,005.00	LF		\$	
1780	04932		INSTALL STEEL STRAIN POLE	16.00	EACH		\$	
1790	04934		TEMP SIGNAL MULTI PHASE	2.00	EACH		\$	
1800	06472		INSTALL SPAN MOUNTED SIGN	28.00	EACH		\$	
1810	20093NS835		INSTALL PEDESTRIAN HEAD-LED	12.00	EACH		\$	
1820	20094ES835		TEMP RELOCATION OF SIGNAL HEAD	102.00	EACH		\$	
1830	20188NS835		INSTALL LED SIGNAL-3 SECTION	69.00	EACH		\$	
1840	20266ES835		INSTALL LED SIGNAL- 4 SECTION	4.00	EACH		\$	
1850	20390NS835		INSTALL COORDINATING UNIT	5.00	EACH		\$	
1860	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	7.00	EACH		\$	
1870	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	4.00	EACH		\$	
1875	21543EN		BORE AND JACK CONDUIT (ADDED: 1-23-19)	685.00	LF		\$	
1880	21743NN		INSTALL PEDESTRIAN DETECTOR	12.00	EACH		\$	
1885	22631NN		INSTALL MAST ARM POLE (ADDED: 1-23-19)	7.00	EACH		\$	
1890	22939ND		INSTALL LUMINAIRE POLE	3.00	EACH		\$	
1900	23157EN		TRAFFIC SIGNAL POLE BASE	94.90	CUYD		\$	
1910	23222EC		INSTALL SIGNAL PEDESTAL	8.00	EACH		\$	
1920	24856ED		TRAFFIC SIGNAL POLE BASE ALTERNATE	23.00	EACH		\$	
1930	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	1,138.00	LF		\$	
1940	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	2,712.00	LF		\$	
1950	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	5.00	EACH		\$	
1960	24955ED		REMOVE SIGNAL EQUIPMENT	6.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1970	04714		POLE 120 FT MTG HT HIGH MAST	7.00	EACH		\$	
1980	04761		LIGHTING CONTROL EQUIPMENT	1.00	EACH		\$	
1990	04797		CONDUIT-3 IN	2,325.00	LF		\$	
2000	04800		MARKER	14.00	EACH		\$	
2010	04820		TRENCHING AND BACKFILLING	4,490.00	LF		\$	
2020	04940		REMOVE LIGHTING	1.00	LS		\$	
2030	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	12.00	EACH		\$	
2040	20392NS835		ELECTRICAL JUNCTION BOX TYPE C	2.00	EACH		\$	
2050	20410ED		MAINTAIN LIGHTING	1.00	LS		\$	
2060	21543EN		BORE AND JACK CONDUIT	2,325.00	LF		\$	
2070	23161EN		POLE BASE-HIGH MAST	66.52	CUYD		\$	
2080	24749EC		HIGH MAST LED LUMINAIRE	34.00	EACH		\$	
2090	24851EC		CABLE-NO. 10/3C DUCTED	10,060.00	LF		\$	

Section: 0007 - MOBILIZATION AND/OR DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
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MCCRACKEN COUNTY
 NHPP 0601(205)
 191004

PROPOSAL BID ITEMS

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2100	02568		MOBILIZATION	1.00	LS		\$	
2110	02569		DEMOBILIZATION	1.00	LS		\$	

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT	US NEW HOLT	US MALL FT	US JAMS SANDERS	US 1/2" PIPES	US COLEMAN	TOTAL
4740	POLE BASE	EACH	-	-	-	3	-	3
4780	FUSED CONNECTOR KIT	EACH	16	-	-	32	-	48
4792	CONDUIT - 1 INCH	LIN FT	27	22	25	60	20	154
4795	CONDUIT - 2 INCH	LIN FT	-	-	-	1830	-	1830
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	6	6	5	14	6	37
4820	TRENCHING AND BACKFILLING	LIN FT	273	220	212	1865	209	2779
4830	LOOP WIRE	LIN FT	2970	3000	3906	6530	2724	19,130
4834	WIRE-NO. 6		-	-	-	1320	-	1320
4835	WIRE-NO. 4		-	-	-	1420	-	1420
4844	CABLE - NO. 14/5C	LIN FT	2880	1168	1450	10,390	993	16,881
4850	CABLE - NO. 14/1 PAIR	LIN FT	2595	3220	3950	9405	2657	21,827
4871	POLE 35' WOODEN	EACH	-	-	-	1	-	1
2263INN	INSTALL MAST ARM POLE	EACH	-	-	-	7	-	7
4885	MESSENGER - 10800 LB	LIN FT	503	-	-	-	491	994
4886	MESSENGER - 15400 LB	LIN FT	-	542	606	-	-	1148
4895	LOOP SAW SLOT AND FILL	LIN FT	1057	1077	1527	2345	999	7005
4932	INSTALL STEEL STRAIN POLE	EACH	4	4	4	-	4	16
4934	TEMP SIGNAL MULTI PHASE	EACH	-	-	-	2	-	2
24955ED	REMOVE SIGNAL EQUIPMENT	EACH	1	1	1	2	1	6
6472	INSTALL SPAN MOUNTED SIGN	EACH	-	-	-	28	-	28
20093NS835	INSTALL PEDESTRIAN HEAD LED	EACH	8	-	-	4	-	12
20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD	EACH	24	26	32	-	20	102
20188NS835	INSTALL SIGNAL - 3 SECTION LED	EACH	10	11	6	32	10	69
20266ES835	INSTALL SIGNAL - 4 SECTION LED	EACH	2	2	-	-	-	4
20390NS835	INSTALL COORDINATING UNIT	EACH	1	1	1	1	1	5
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	-	-	-	7	-	7
20392NS835	ELECTRICAL JUNCTION BOX TYPE C	EACH	-	-	-	4	-	4
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	8	-	-	4	-	12
22939ND	INSTALL LUMINAIRE POLE	EACH	-	-	-	3	-	3
23157EN	TRAFFIC SIGNAL POLE BASE	CU YD	17.3	17.6	18.0	23.7	18.3	94.9
23222EC	INSTALL SIGNAL PEDESTAL	EACH	4	-	-	4	-	8
24856ED	TRAFFIC SIGNAL POLE BASE ALTERNATIVE	EACH	4	4	4	7	4	23
24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	LIN FT	201	160	127	435	215	1138
24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80	EACH	92	74	101	2413	32	2712
24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	EACH	1	1	1	1	1	5
21543EN	BORE AND JACK CONDUIT	LIN FT	-	-	-	685	-	685

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPRIAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8991 OR EMAIL REGENA.MARTIN@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 716
 INSTALL LUMINAIRE POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING AN ALUMINUM CAP (WITH SET SCREWS) FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF THE MOUNTING BRACKETS, TRANSFORMER BASE, DOOR, AND ANCHOR BOLTS IN CONCRETE BASE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723
 INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, MOUNTING THE CABINET, ATTACHING BATTERY BACKUP EQUIPMENT WHEN NOTED, CONNECTING THE SIGNAL AND DETECTORS, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE MOUNTING HARDWARE, ELECTRIC SERVICE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOUT, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723
 SUBSECTION: 03.02 POLES AND BASES INSTALLATION. A)
 REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DRILLED SHAFT DATA						VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
	DIAMETER (IN.)	DEPTH (FEET)				ROCK			
		< 2:1 GROUND SLOPE	SOIL	ROCK	2:1 GROUND SLOPE"				
0-9.8	36	6	6	6	6	6	#8	2	
10-19.9	36	6	6	6	6	6	#8	2	
20-29.9	36	6	6	6	6	6	#8	2	
30-39.9	36	6	6	6	6	6	#8	2	
40-49.9	36	6	6	6	6	6	#8	2	
50-59.9	36	6	6	6	6	6	#8	2	
60-69.9	36	6	6	6	6	6	#8	2	
70-79.9	36	6	6	6	6	6	#8	2	
80-89.9	36	6	6	6	6	6	#8	2	
90-99.9	36	6	6	6	6	6	#8	2	
100-149.9	36	6	6	6	6	6	#8	2	
150-199.9	36	6	6	6	6	6	#8	2	
200-249.9	36	6	6	6	6	6	#8	2	
250-299.9	36	6	6	6	6	6	#8	2	
300-349.9	36	6	6	6	6	6	#8	2	
350-399.9	48	7.5	7.5	7.5	7.5	7.5	#8	6	
400-449.9	48	7.5	7.5	7.5	7.5	7.5	#8	6	
450-499.9	48	7.5	7.5	7.5	7.5	7.5	#8	6	
500-600	48	22.5	22.5	22.5	22.5	22.5	#9	2	

REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

04-22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
 REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

DESIGNED BY: STANTEC
 DATE SUBMITTED:

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY OF
McCRACKEN

PROJECT NUMBERS: 12FO C35 D624 01FD52 1550 C073 E4H3

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES
 MEASUREMENT, CONST, AND MISC NOTES

REVISED 1-22-19

MATERIAL NOTES THAT ARE CONTRARY TO SECTION 835

SUBSECTION: 07.02 MAST ARM POLES
 REVISION: REPLACE ENTIRE 9) NOTE FOR "THE DETAIL ANALYSIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING CALCULATIONS: WITH THE FOLLOWING: LIMIT VERTICAL DEFLECTION TO 8 INCHES FOR GALLOPING FOR ALL ARMS .

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 706, 723, AND 112 FOR MEASUREMENT AND OTHER DETAILS. SEE SECTION 602 FOR SPIRAL REINFORCEMENT SPLICING.

THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE PROJECT SITE PRIOR TO SUBMITTING A BID AND SHALL BE THOROUGHLY FAMILIARIZED WITH EXISTING CONDITIONS. SUBMISSIONS OF A BID WILL BE CONSIDERED AN AFFIRMATION OF THIS INSPECTION HAVING BEEN COMPLETED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PICKING UP INSTALL ITEMS FROM THE FRANKFORT POLE YARD AND DELIVERING THESE ITEMS TO THE SITE. THE CONTRACTOR SHALL CONTACT FRANKFORT POLE YARD PERSONNEL (502-782-8991 OR EMAIL REGENA.MARTIN@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL THIS ADVANCE NOTICE COULD RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE EQUIPMENT UPON ARRIVAL.

ADD SENTENCE TO SECTION 835.15: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : "PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 716

INSTALL LUMINAIRE POLE - DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING AN ALUMINUM CAP (WITH SET SCREWS) FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF THE MOUNTING BRACKETS, TRANSFORMER BASE, DOOR, AND ANCHOR BOLTS IN CONCRETE BASE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

MEASUREMENT NOTES THAT ARE IN ADDITION TO SECTION 723

INSTALL SIGNAL CONTROLLER TYPE ATC. THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONCRETE BASE, MOUNTING THE CABINET, ATTACHING BATTERY BACKUP EQUIPMENT WHEN NOTED, CONNECTING THE SIGNAL AND DETECTORS, EXCAVATION, BACKFILLING, RESTORATION, ANY NECESSARY POLE MOUNTING HARDWARE, ELECTRIC SERVICE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE CONNECTING THE INDUCTION LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND INSTALLING ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOFF, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLES AND BASES INSTALLATION. A)
 REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DRILLED SHAFT DATA						VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	SPACING OR PITCH (IN.)
	DIAMETER (IN.)	DEPTH (FEET)				ROCK			
		< 2:1 GROUND SLOPE	SOIL	ROCK	2:1 GROUND SLOPE"				
0-9.9	36	6	6.5	6	6	6	#8	2	
10-19.9	36	7	6.5	6	6	6	#8	2	
20-29.9	36	8	6.5	6	6	6	#8	2	
30-39.9	36	9	6.5	6	6	6	#8	2	
40-49.9	36	10	6.5	6	6	6	#8	2	
50-59.9	36	11	6.5	6	6	6	#8	2	
60-69.9	36	12	6.5	6	6	6	#8	2	
70-79.9	36	13	6.5	6	6	6	#8	2	
80-89.9	36	14	6.5	6	6	6	#8	2	
90-99.9	36	15	6.5	6	6	6	#8	2	
100-149.9	36	17	6.5	6	6	6	#8	2	
150-199.9	36	18.5	6.5	6	6	6	#8	2	
200-249.9	36	21	6.5	6	6	6	#8	2	
250-299.9	36	21.5	6.5	6	6	6	#8	2	
300-349.9	36	22.5	6.5	6	6	6	#8	2	
350-399.9	48	22.5	6.5	6	6	6	#8	2	
400-449.9	48	22.5	6.5	6	6	6	#8	2	
450-499.9	48	22.5	6.5	6	6	6	#8	2	
500-600	48	22.5	6.5	6	6	6	#8	2	

04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
 REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

ITEM CODE	ITEM	UNIT	US NEW TOL	US MALL FT	US SANDERS	US 24 PM FS	US 60 JAM	US 60 COLMAN	TOTAL
4740	POLE BASE	EACH	-	-	-	3	-	-	3
4780	FUSED CONNECTOR KIT	EACH	16	-	-	32	-	-	48
4792	CONDUIT - 1 INCH	LIN FT	27	22	25	60	20	20	154
4795	CONDUIT - 2 INCH	LIN FT	-	-	-	1830	-	-	1830
4811	ELECTRICAL JUNCTION BOX TYPE B	EACH	6	6	5	14	6	6	37
4820	TRENCHING AND BACKFILLING	LIN FT	273	220	212	1865	209	2779	2779
4830	LOOP WIRE	LIN FT	2970	3000	3906	6530	2724	19,130	19,130
4834	WIRE-NO. 6		-	-	-	1320	-	-	1320
4835	WIRE-NO. 4		-	-	-	1420	-	-	1420
4844	CABLE - NO. 14/5C	LIN FT	2880	1168	1450	10,390	993	16,881	16,881
4850	CABLE - NO. 14/1 PAIR	LIN FT	2595	3220	3950	9405	2657	21,827	21,827
4871	POLE 35' WOODEN	EACH	-	-	-	1	-	-	1
2263INN	INSTALL MAST ARM POLE	EACH	-	-	-	7	-	-	7
4885	MESSENGER - 10800 LB	LIN FT	503	-	-	-	491	994	994
4886	MESSENGER - 15400 LB	LIN FT	-	542	606	-	-	-	1148
4895	LOOP SAW SLOT AND FILL	LIN FT	1057	1077	1527	2345	999	7005	7005
4932	INSTALL STEEL STRAIN POLE	EACH	4	4	4	-	4	16	16
4934	TEMP SIGNAL MULTI PHASE	EACH	-	-	-	2	-	2	2
24956ED	REMOVE SIGNAL EQUIPMENT	EACH	1	1	1	2	1	6	6
6472	INSTALL SPAN MOUNTED SIGN	EACH	-	-	-	28	-	28	28
20093NS835	INSTALL PEDESTRIAN HEAD LED	EACH	8	-	-	4	-	12	12
20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD	EACH	24	26	32	-	20	102	102
20188NS835	INSTALL SIGNAL - 3 SECTION LED	EACH	10	11	6	32	10	69	69
20266ES835	INSTALL SIGNAL - 4 SECTION LED	EACH	2	2	-	-	-	4	4
20390NS835	INSTALL COORDINATING UNIT	EACH	1	1	1	1	1	5	5
20391NS835	ELECTRICAL JUNCTION BOX TYPE A	EACH	-	-	-	7	-	7	7
20392NS835	ELECTRICAL JUNCTION BOX TYPE C	EACH	-	-	-	4	-	4	4
21743NN	INSTALL PEDESTRIAN DETECTOR	EACH	8	-	-	4	-	12	12
22939ND	INSTALL LUMINAIRE POLE	EACH	-	-	-	3	-	3	3
23157EN	TRAFFIC SIGNAL POLE BASE	CU YD	17.3	17.6	18.0	23.7	18.3	94.9	94.9
23222EC	INSTALL SIGNAL PEDESTAL	EACH	4	-	-	4	-	8	8
24856ED	TRAFFIC SIGNAL POLE BASE ALTERNATIVE	EACH	4	4	4	7	4	23	23
24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80	LIN FT	201	160	127	435	215	1138	1138
24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80	EACH	92	74	101	2413	32	2712	2712
24908EC	INSTALL SIGNAL CONTROLLER-TY ATC	EACH	1	1	1	1	1	5	5
21543EN	BORE AND JACK CONDUIT	LIN FT	-	-	-	685	-	685	685

REVISION: 04.22 REMOVE SIGNAL EQUIPMENT. (CONSTRUCTION ONLY)
 REPLACE THE PARAGRAPH WITH THE FOLLOWING:
 THE DEPARTMENT WILL MEASURE THE QUANTITY BY EACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL OR TRANSPORTATION OF EQUIPMENT AND MATERIALS ASSOCIATED WITH ANY STRUCTURAL OR ELECTRICAL COMPONENT OF THE SIGNAL SYSTEM INCLUDING, BUT NOT LIMITED TO POLE BASES, POLES, JUNCTION BOXES, CABINETS, AND WOOD POLES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

DESIGNED BY: STANTEC
 DATE SUBMITTED:
Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS
 COUNTY OF
McCRACKEN
 PROJECT NUMBERS: 12FO C35 D624 01FD52 1550 C073 E4H3
 TRAFFIC SIGNAL ESTIMATE OF QUANTITIES
 MEASUREMENT, CONST, AND MISC NOTES