



COMMONWEALTH OF KENTUCKY  
TRANSPORTATION CABINET  
[www.transportation.ky.gov/](http://www.transportation.ky.gov/)

Andy Beshear  
GOVERNOR

Jim Gray  
SECRETARY

August 12, 2021

CALL NO. 104  
CONTRACT ID NO. 211040  
ADDENDUM # 1

Subject: Warren County, STP 5081 (008)  
Letting August 20, 2021

- (1) Revised - Proposal Bid Items - Pages 173-177 of 177
- (2) Revised - Plan Sheet - T1

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

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

Sincerely,

Rachel Mills,

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

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

RM:mr  
Enclosures

**PROPOSAL BID ITEMS**

Report Date 8/12/21

**Section: 0001 - PAVING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	39,744.00	TON		\$	
0020	00020		TRAFFIC BOUND BASE	1,757.00	TON		\$	
0030	00078		CRUSHED AGGREGATE SIZE NO 2	75,307.00	TON		\$	
0040	00100		ASPHALT SEAL AGGREGATE	237.00	TON		\$	
0050	00103		ASPHALT SEAL COAT	29.00	TON		\$	
0060	00190		LEVELING & WEDGING PG64-22	495.00	TON		\$	
0070	00214		CL3 ASPH BASE 1.00D PG64-22	47,215.00	TON		\$	
0080	00388		CL3 ASPH SURF 0.38B PG64-22	10,925.00	TON		\$	
0090	02602		FABRIC-GEOTEXTILE CLASS 1	218,280.00	SQYD		\$	
0100	02676		MOBILIZATION FOR MILL & TEXT	1.00	LS		\$	
0110	02677		ASPHALT PAVE MILLING & TEXTURING	105.00	TON		\$	
0120	20071EC		JOINT ADHESIVE	99,400.00	LF		\$	
0130	24970EC		ASPHALT MATERIAL FOR TACK NON-TRACKING	147.00	TON		\$	

**Section: 0002 - ROADWAY**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0140	00003		CRUSHED STONE BASE	25.00	TON		\$	
0150	00078		CRUSHED AGGREGATE SIZE NO 2	117.00	TON		\$	
0160	01000		PERFORATED PIPE-4 IN	58.00	LF		\$	
0170	01010		NON-PERFORATED PIPE-4 IN	92.00	LF		\$	
0180	01032		PERF PIPE HEADWALL TY 4-4 IN	2.00	EACH		\$	
0190	01789		RECONSTRUCT MANHOLE	3.00	EACH		\$	
0200	01792		ADJUST MANHOLE	6.00	EACH		\$	
0210	01810		STANDARD CURB AND GUTTER	244.00	LF		\$	
0220	01917		STANDARD BARRIER MEDIAN TYPE 2	723.00	SQYD		\$	
0230	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	20.00	EACH		\$	
0240	02091		REMOVE PAVEMENT	204.00	SQYD		\$	
0250	02159		TEMP DITCH	14,200.00	LF		\$	
0260	02200		ROADWAY EXCAVATION	64,100.00	CUYD		\$	
0270	02223		GRANULAR EMBANKMENT	20.00	CUYD		\$	
0280	02242		WATER	5.70	MGAL		\$	
0290	02351		GUARDRAIL-STEEL W BEAM-S FACE	912.50	LF		\$	
0300	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
0310	02367		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH		\$	
0320	02383		REMOVE & RESET GUARDRAIL	200.00	LF		\$	
0330	02429		RIGHT-OF-WAY MONUMENT TYPE 1	122.00	EACH		\$	
0340	02432		WITNESS POST	3.00	EACH		\$	
0350	02469		CLEAN SINKHOLE	1.00	EACH		\$	
0360	02483		CHANNEL LINING CLASS II	440.00	TON		\$	
0370	02545		CLEARING AND GRUBBING 33 ACRES	1.00	LS		\$	
0380	02562		TEMPORARY SIGNS	500.00	SQFT		\$	
0390	02602		FABRIC-GEOTEXTILE CLASS 1	135.00	SQYD		\$	
0400	02603		FABRIC-GEOTEXTILE CLASS 2	34.00	SQYD		\$	

**PROPOSAL BID ITEMS**

Report Date 8/12/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02604		FABRIC-GEOTEXTILE CLASS 1A	140.00	SQYD		\$	
0420	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0430	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0440	02690		SAFELADING	41.40	CUYD		\$	
0450	02701		TEMP SILT FENCE	14,200.00	LF		\$	
0460	02703		SILT TRAP TYPE A	126.00	EACH		\$	
0470	02704		SILT TRAP TYPE B	126.00	EACH		\$	
0480	02705		SILT TRAP TYPE C	88.00	EACH		\$	
0490	02706		CLEAN SILT TRAP TYPE A	377.00	EACH		\$	
0500	02707		CLEAN SILT TRAP TYPE B	377.00	EACH		\$	
0510	02708		CLEAN SILT TRAP TYPE C	283.00	EACH		\$	
0520	02709		CLEAN TEMP SILT FENCE	28,400.00	LF		\$	
0530	02720		SIDEWALK-4 IN CONCRETE	901.00	SQYD		\$	
0540	02726		STAKING	1.00	LS		\$	
0550	02775		ARROW PANEL	2.00	EACH		\$	
0560	05950		EROSION CONTROL BLANKET	18,263.00	SQYD		\$	
0570	05952		TEMP MULCH	303,952.00	SQYD		\$	
0580	05953		TEMP SEEDING AND PROTECTION	13,600.00	SQYD		\$	
0590	05963		INITIAL FERTILIZER	4.20	TON		\$	
0600	05964		MAINTENANCE FERTILIZER	7.00	TON		\$	
0610	05985		SEEDING AND PROTECTION	136,004.00	SQYD		\$	
0620	05990		SODDING	29,025.00	SQYD		\$	
0630	05992		AGRICULTURAL LIMESTONE	85.00	TON		\$	
0640	06510		PAVE STRIPING-TEMP PAINT-4 IN	50,000.00	LF		\$	
0650	06514		PAVE STRIPING-PERM PAINT-4 IN	78,660.00	LF		\$	
0660	06565		PAVE MARKING-THERMO X-WALK-6 IN	384.00	LF		\$	
0670	06567		PAVE MARKING-THERMO STOP BAR-12IN	5.00	LF		\$	
0680	06568		PAVE MARKING-THERMO STOP BAR-24IN	421.00	LF		\$	
0690	06570		PAVE MARKING-PAINT CROSS-HATCH	2,585.00	SQFT		\$	
0700	06574		PAVE MARKING-THERMO CURV ARROW	89.00	EACH		\$	
0710	06575		PAVE MARKING-THERMO COMB ARROW	3.00	EACH		\$	
0720	06578		PAVE MARKING-THERMO MERGE ARROW	4.00	EACH		\$	
0730	06601NC		PAVE MARKING-PAINT WORDS	22.00	EACH		\$	
0740	10020NS		FUEL ADJUSTMENT	62,732.00	DOLL	\$1.00	\$	\$62,732.00
0750	10030NS		ASPHALT ADJUSTMENT	104,652.00	DOLL	\$1.00	\$	\$104,652.00
0760	20430ED		SAW CUT	313.00	LF		\$	
0770	20782NS714		PAVE MARKING THERMO-BIKE	1.00	EACH		\$	
0780	22664EN		WATER BLASTING EXISTING STRIPE	500.00	LF		\$	
0790	23158ES505		DETECTABLE WARNINGS	71.00	SQFT		\$	
0800	23274EN11F		TURF REINFORCEMENT MAT 1	4,395.00	SQYD		\$	
0810	24489EC		INLAID PAVEMENT MARKER	1,032.00	EACH		\$	

**Section: 0003 - DRAINAGE**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0820	00439		ENTRANCE PIPE-12 IN	167.00	LF		\$	
0830	00440		ENTRANCE PIPE-15 IN	876.00	LF		\$	
0840	00441		ENTRANCE PIPE-18 IN	793.00	LF		\$	

**PROPOSAL BID ITEMS**

Report Date 8/12/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	00443		ENTRANCE PIPE-24 IN	547.00	LF		\$	
0860	00452		ENTRANCE PIPE-24 IN EQUIV	120.00	LF		\$	
0870	00462		CULVERT PIPE-18 IN	281.00	LF		\$	
0880	00464		CULVERT PIPE-24 IN	148.00	LF		\$	
0890	00466		CULVERT PIPE-30 IN	180.00	LF		\$	
0900	00470		CULVERT PIPE-48 IN	132.00	LF		\$	
0910	00494		CULVERT PIPE-30 IN EQUIV	88.00	LF		\$	
0920	00499		CULVERT PIPE-48 IN EQUIV	24.00	LF		\$	
0930	00522		STORM SEWER PIPE-18 IN	246.00	LF		\$	
0940	00524		STORM SEWER PIPE-24 IN	73.00	LF		\$	
0950	01216		PIPE CULVERT HEADWALL-48 IN	2.00	EACH		\$	
0960	01217		PIPE CULVERT HEADWALL-48 IN EQUIV	2.00	EACH		\$	
0970	01450		S & F BOX INLET-OUTLET-18 IN	8.00	EACH		\$	
0980	01451		S & F BOX INLET-OUTLET-24 IN	6.00	EACH		\$	
0990	01452		S & F BOX INLET-OUTLET-30 IN	4.00	EACH		\$	
1000	01453		S & F BOX INLET-OUTLET-36 IN	2.00	EACH		\$	
1010	01756		MANHOLE TYPE A	1.00	EACH		\$	
1020	02200		ROADWAY EXCAVATION	113.00	CUYD		\$	
1030	02484		CHANNEL LINING CLASS III	350.00	TON		\$	
1040	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	2,260.00	SQYD	\$2.00	\$	\$4,520.00
1050	21799EN		BORE AND JACK PIPE-24 IN	106.00	LF		\$	
1060	23126EN		BORE AND JACK PIPE-18 IN	58.00	LF		\$	
1070	23274EN11F		TURF REINFORCEMENT MAT 1	165.00	SQYD		\$	
1080	24814EC		PIPELINE INSPECTION	1,074.00	LF		\$	

**Section: 0004 - BRIDGE- 27789 - 12' X 8' X 80' PEDESTRIAN UNDERPASS**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1090	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1100	08100		CONCRETE-CLASS A	171.70	CUYD		\$	
1110	08150		STEEL REINFORCEMENT	25,032.00	LB		\$	

**Section: 0005 - BRIDGE- 27506 - 5' X 4' EXTENSION (31'-9" INLET 35'-6" OUTLET)**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1120	02625		REMOVE HEADWALL	2.00	EACH		\$	
1130	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1140	08100		CONCRETE-CLASS A	66.90	CUYD		\$	
1150	08150		STEEL REINFORCEMENT	5,492.00	LB		\$	

**Section: 0006 - BRIDGE-27507 - 5' X 3' EXTENSION (34'-6" INLET 33'-6" OUTLET)**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1160	02625		REMOVE HEADWALL	2.00	EACH		\$	
1170	08003		FOUNDATION PREPARATION	1.00	LS		\$	
1180	08100		CONCRETE-CLASS A	54.70	CUYD		\$	

**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1190	08150		STEEL REINFORCEMENT	3,644.00	LB		\$	

**Section: 0007 - SEWER**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1200	00003		CRUSHED STONE BASE	50.00	TON		\$	
1210	00388		CL3 ASPH SURF 0.38B PG64-22	8.00	TON		\$	
1220	15010		S CONCRETE PIPE ANCHOR	3.00	EACH		\$	
1230	15020		S ENCASEMENT STEEL OPEN CUT RANGE 1	50.00	LF		\$	
1240	15026		S FORCE MAIN AIR RLS/VAC VLV 02 IN	1.00	EACH		\$	
1250	15068		S FORCE MAIN SPECIAL	260.00	LF		\$	
1260	15071		S FORCE MAIN TIE-IN 02 INCH	1.00	EACH		\$	
1270	15084		S FORCE MAIN VALVE GATE	1.00	EACH		\$	
1280	15094		S MANHOLE ADJUST TO GRADE INSTALL GRADE RINGS ON CONE	4.00	EACH		\$	
1290	15094		S MANHOLE ADJUST TO GRADE REM CONE INTALL NEW BARREL SECTION	3.00	EACH		\$	
1300	15094		S MANHOLE ADJUST TO GRADE REPLACE BARREL SECTION LOWER .3 VF	1.00	EACH		\$	
1310	15096		S MANHOLE CASTING WATERTIGHT	1.00	EACH		\$	
1320	15119		S PUMP STATION	1.00	EACH		\$	

**Section: 0008 - SIGNING**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1330	06406		SBM ALUM SHEET SIGNS .080 IN	248.00	SQFT		\$	
1340	06407		SBM ALUM SHEET SIGNS .125 IN	78.00	SQFT		\$	
1350	06410		STEEL POST TYPE 1	740.00	LF		\$	
1360	21373ND		REMOVE SIGN	6.00	EACH		\$	
1370	21813NN		REMOVE AND RELOCATE SHEET SIGNS	13.00	EACH		\$	
1380	24631EC		BARCODE SIGN INVENTORY	77.00	EACH		\$	

**Section: 0009 - SIGNALIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1390	04811		ELECTRICAL JUNCTION BOX TYPE B	3.00	EACH		\$	
1400	04820		TRENCHING AND BACKFILLING	285.00	LF		\$	
1410	04844		CABLE-NO. 14/5C	4,155.00	LF		\$	
1420	04885		MESSENGER-10800 LB	1,675.00	LF		\$	
1430	04932		INSTALL STEEL STRAIN POLE	12.00	EACH		\$	
1440	04953		TEMP RELOCATION OF SIGNAL HEAD	42.00	EACH		\$	
1450	20093NS835		INSTALL PEDESTRIAN HEAD-LED	4.00	EACH		\$	
1460	20188NS835		INSTALL LED SIGNAL-3 SECTION	17.00	EACH		\$	
1470	20266ES835		INSTALL LED SIGNAL- 4 SECTION	3.00	EACH		\$	
1480	20390NS835		INSTALL COORDINATING UNIT	2.00	EACH		\$	
1490	21743NN		INSTALL PEDESTRIAN DETECTOR	4.00	EACH		\$	
1500	23157EN		TRAFFIC SIGNAL POLE BASE	51.00	CUYD		\$	

**PROPOSAL BID ITEMS**

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1510	23222EC		INSTALL SIGNAL PEDESTAL	3.00	EACH		\$	
1520	24601EC		INSTALL SOLAR SCHOOL FLASHER	2.00	EACH		\$	
1530	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	125.00	LF		\$	
1540	24901EC		PVC CONDUIT-2 IN-SCHEDULE 80	160.00	LF		\$	
1550	24908EC		INSTALL SIGNAL CONTROLLER-TY ATC	2.00	EACH		\$	
1560	24955ED		REMOVE SIGNAL EQUIPMENT	4.00	EACH		\$	
1570	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	8.00	EACH		\$	
1580	26120EC		INSTALL RADAR ADVANCE DETECTOR TYPE B	4.00	EACH		\$	

**Section: 0010 - DEMOBILIZATION &/OR MOBILIZATION**

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1590	02568		MOBILIZATION	1.00	LS		\$	
1600	02569		DEMOBILIZATION	1.00	LS		\$	

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

US 31W@ S. GLEN CABLES	US 31W@ KY 242	SCHOOL FLASHER	TOTAL UNITS	CODE	ITEM DESCRIPTION
4	0	0	8	2619EC	INSTALL RADAR PRESENCE DETECTOR TYPE A
2	0	0	4	26120EC	INSTALL RADAR PRESENCE DETECTOR TYPE B
3	0	0	3	4811	ELECTRICAL JUNCTION BOX TYPE B
205	80	0	285	4820	TRENCHING AND BACKFILLING
125	0	0	125	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
2500	1355	300	4,155	4844	CABLE-NO. 14/5C
550	650	475	1,675	4885	MESSENGER-10800 LB
80	0	0	160	24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80
1	1	0	2	24908EC	INSTALL SIG CONTROLLER-TYPE ATC
4	4	4	12	4932	INSTALL STEEL STRAIN POLE
1	1	2	4	4950	REMOVE SIGNAL EQUIPMENT
4	0	0	4	20093NS835	INSTALL PEDESTRIAN HEAD LED
22	20	0	42	20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
9	8	0	17	2018NS835	INSTALL SIGNAL-3 SECTION LED
1	2	0	3	20266ES835	INSTALL SIGNAL-4 SECTION LED
4	0	0	4	21743NN	INSTALL PEDESTRIAN DETECTOR
30	21	0	51	23157EN	TRAFFIC SIGNAL POLE BASE
3	0	0	3	23222EC	INSTALL SIGNAL PEDESTAL
1	1	0	2	20390NS835	INSTALL COORDINATING UNIT
0	0	2	2	24601EC	INSTALL - SOLAR SCHOOL FLASHER

INSTALL RADAR PRESENCE DETECTOR TYPE A

Install Radar Presence Detector Type A shall consist of installation of a pole mounted radar presence sensor, sensor mounting bracket, sensor cables, interface boxes, lead-in cable, connectors (furnished by contractor), and controller interface assembly. Radar Presence Detector Type A bid item shall include all labor required to provide a functional detection system. Radar Presence Detector Type A shall be installed and wired in accordance with the manufacturer's instructions. After the detector is installed and before the detector is powered on, the contractor shall coordinate with District Traffic Division's representatives to schedule a time to perform the detector setup. The contractor shall double check to verify that all wiring is correctly installed and connected before scheduling the setup work. Representatives from KYTC and/or the manufacturer or sales representative will assist with setup and calibration. The contractor shall provide a bucket truck and operators at this time for final aiming of the sensors. The contractor shall provide individuals capable of operating the setup software and learning the setup process so that future installations may be completed without assistance from others.

INSTALL RADAR ADVANCE DETECTOR TYPE B

Install Radar Advance Detector Type B shall consist of installation of a pole mounted radar presence sensor, sensor mounting bracket, sensor cables, interface boxes, lead-in cable, connectors (furnished by contractor), and controller interface assembly. Radar Advance Detector Type B bid item shall include all labor required to provide a functional detection system. Radar Advance Detector Type B shall be installed and wired in accordance with the manufacturer's instructions. After the detector is installed and before the detector is powered on, the contractor shall coordinate with District Traffic Division's representatives to schedule a time to perform the detector setup. The contractor shall double check to verify that all wiring is correctly installed and connected before scheduling the setup work. Representatives from KYTC and/or the manufacturer or sales representative will assist with setup and calibration. The contractor shall provide a bucket truck and operators at this time for final aiming of the sensors. The contractor shall provide individuals capable of operating the setup software and learning the setup process so that future installations may be completed without assistance from others.

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, 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.

INSTALL SOLAR SCHOOL FLASHER - THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONTROLLER HOUSING, MOUNTING EQUIPMENT, S5-1 SCHOOL ZONE SIGN, NEMA FLASHER, GROUND RODS, GROUND LUGS, METERING DISCONNECT HARDWARE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FORPAYMENT 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, B)  
REVISION:REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DIAMETER (IN.)	DRILLED SHAFT DATA				VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	
		DEPTH (FEET)		ROCK	SOIL		SIZE	OR PITCH (IN.)
		< 2:1 GROUND SLOPE	2:1 GROUND SLOPE*					
0-9	36	6	6.5	6	8	13	#4	12
10-19.9	36	7	6.5	6	8	13	#4	12
20-29.9	36	8	6.5	6	9	13	#4	12
30-39.9	36	9	6.5	6	10	13	#4	12
40-49.9	36	9.5	6.5	6	10.5	13	#4	12
50-59.9	36	10	6.5	6	11	13	#4	12
60-69.9	36	10.5	6.5	6	11.5	13	#4	12
70-79.9	36	11	6.5	6	12	13	#4	12
80-89.9	36	11.5	6.5	6	12.5	13	#4	12
90-99.9	36	12	6.5	6	13	13	#4	12
100-149.9	36	12.5	6.5	6	13.5	13	#4	12
150-199.9	36	13	6.5	6	14	13	#4	12
200-249.9	36	13.5	6.5	6	14.5	13	#4	12
250-299.9	36	14	6.5	6	15	13	#4	12
300-399.9	36	14.5	6.5	6	15.5	13	#4	12
400-499.9	36	15	6.5	6	16	13	#4	12
500-600	48	21.5	7.5	7.5	25	18	#4	6
		22.5	7.5	7.5	25.5	19	#4	12

SUBSECTION: 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.

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".

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 MATERIALS FOR INSTALL ITEMS AT KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622). THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR MATERIAL RELEASE. FAILURE TO FOLLOW THESE PROCEDURES MAY RESULT IN LONG DELAYS OR REFUSAL TO DISTRIBUTE MATERIALS UPON ARRIVAL.

1. CONTRACTOR SHALL SECURE THE SIGNATURES OF KYTC'S PROJECT ENGINEER AND THE ELECTRICAL CONTRACTOR'S FOREMAN ON THE PROJECT MATERIALS RELEASE FORM. IF THE RELEASE FORM IS NOT IN THE PROPOSAL, CONTACT TED SWANSEGAR OR KERRY ROBERTS WITH THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (5502-782-5540/502-782-5536) OR EMAIL (TED.SWANSEGAR@KY.GOV/KERRY.ROBERTS@KY.GOV).
2. CONTRACTOR SHALL CONTACT THE WAREHOUSE TO PREARRANGE PICK UP OF MATERIALS. CONTRACTOR SHALL EMAIL THE PROJECT MATERIALS RELEASE FORM WITH REQUIRED SIGNATURES TO THE WAREHOUSE AT KIM.STAMPER@KY.GOV AND SHALL NOTIFY THE WAREHOUSE BY PHONE (502-782-8994/502-330-8153) OR EMAIL KIM.STAMPER@KY.GOV AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL.
3. CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH OF THE DIVISION OF TRAFFIC OPERATIONS BY PHONE (502-782-5543/502-782-5547) OR EMAIL (JOE.THOMPSON@KY.GOV/LARRY.IRISH@KY.GOV) AT LEAST TWO (2) WORKING DAYS PRIOR TO ARRIVAL TO FACILITATE PROGRAMMING OF ROUTERS.
4. CONTRACTOR SHALL ARRIVE AT THE KYTC'S DIVISION OF EQUIPMENT WAREHOUSE (1239 WILKINSON BOULEVARD, FRANKFORT, KY 40622) AT THE PREARRANGED DATE/TIME FOR MATERIAL PICK UP. TO FACILITATE THIS PROCESS, ENSURE CONTRACTOR'S DELIVERY DRIVER HAS A COPY OF THE PROJECT MATERIALS RELEASE FORM WITH THE REQUIRED SIGNATURES.

COUNTY OF	WARREN	ITEM NO.	3-199.00	SHEET NO.	
					T1

DESIGNED BY: JRG
DATE SUBMITTED: 10/1/2020

**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
**COUNTY OF**

**WARREN**

FD04 114 031W 005-007

PROJECT NUMBERS:

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

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

US 31W@ S. GLEN CABLES	US 31W@ KY 242 SCHOOL FLASHER	TOTAL UNITS	CODE	ITEM DESCRIPTION
4	0	8	26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A
2	0	4	26120EC	INSTALL RADAR PRESENCE DETECTOR TYPE B
3	0	3	4811	ELECTRICAL JUNCTION BOX TYPE B
205	80	285	4820	TRENCHING AND BACKFILLING
125	0	125	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
2500	1355	4,155	4844	CABLE-NO. 14/5C
550	650	1,675	4885	MESSENGER-10800 LB
80	0	160	24901EC	PVC CONDUIT - 2 INCH - SCHEDULE 80
1	0	2	24908EC	INSTALL SIG CONTROLLER-TYPE ATC
4	4	12	4932	INSTALL STEEL STRAIN POLE
1	1	2	4950	REMOVE SIGNAL EQUIPMENT
4	0	4	20093NS835	INSTALL PEDESTRIAN HEAD LED
22	0	42	20094ES835	TEMPORARY RELOCATION OF SIGNAL HEAD
9	8	17	2018NS835	INSTALL SIGNAL-3 SECTION LED
1	2	3	20266ES835	INSTALL SIGNAL-4 SECTION LED
4	0	4	21743NN	INSTALL PEDESTRIAN DETECTOR
30	21	51	23157EN	TRAFFIC SIGNAL POLE BASE
3	0	3	23222EC	INSTALL SIGNAL PEDESTAL
1	1	2	20390NS835	INSTALL COORDINATING UNIT
0	0	2	24601EC	INSTALL - SOLAR SCHOOL FLASHER

INSTALL RADAR PRESENCE DETECTOR TYPE A

Install Radar Presence Detector Type A shall consist of installation of a pole mounted radar presence sensor, sensor mounting bracket, sensor cables, interface boxes, lead-in cable, connectors (furnished by contractor), and controller interface assembly. Radar Presence Detector Type A bid item shall include all labor required to provide a functional detection system. Radar Presence Detector Type A shall be installed and wired in accordance with the manufacturer's instructions. After the detector is installed and before the detector is powered on, the contractor shall coordinate with District Traffic Division's representatives to schedule a time to perform the detector setup. The contractor shall double check to verify that all wiring is correctly installed and connected before scheduling the setup work. Representatives from KYTC and/or the manufacturer or sales representative will assist with setup and calibration. The contractor shall provide a bucket truck and operators at this time for final aiming of the sensors. The contractor shall provide individuals capable of operating the setup software and learning the setup process so that future installations may be completed without assistance from others.

INSTALL RADAR ADVANCE DETECTOR TYPE B

Install Radar Advance Detector Type B shall consist of installation of a pole mounted radar presence sensor, sensor mounting bracket, sensor cables, interface boxes, lead-in cable, connectors (furnished by contractor), and controller interface assembly. Radar Advance Detector Type B bid item shall include all labor required to provide a functional detection system. Radar Advance Detector Type B shall be installed and wired in accordance with the manufacturer's instructions. After the detector is installed and before the detector is powered on, the contractor shall coordinate with District Traffic Division's representatives to schedule a time to perform the detector setup. The contractor shall double check to verify that all wiring is correctly installed and connected before scheduling the setup work. Representatives from KYTC and/or the manufacturer or sales representative will assist with setup and calibration. The contractor shall provide a bucket truck and operators at this time for final aiming of the sensors. The contractor shall provide individuals capable of operating the setup software and learning the setup process so that future installations may be completed without assistance from others.

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, 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.

INSTALL SOLAR SCHOOL FLASHER - THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE THE CONTROLLER HOUSING, MOUNTING EQUIPMENT, S5-1 SCHOOL ZONE SIGN, NEMA FLASHER, GROUND RODS, GROUND LUGS, METERING DISCONNECT HARDWARE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FORPAYMENT 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. B) REVISION: REPLACE ENTIRE TABLE WITH THE FOLLOWING:

MAXIMUM SERVICE FORCES	DIAMETER (IN.)	DRILLED SHAFT DATA				VERTICAL BARS TOTAL	TIES OR SPIRAL BAR SIZE	
		SOIL	ROCK	SOIL	ROCK		BAR SIZE	SPACING OR PITCH (IN.)
0-9.9	36	6	6.5	6	6	#8	#4	12
10-19.9	36	7	6.5	6	6	#8	#4	12
20-29.9	36	8	6.5	6	6	#8	#4	12
30-39.9	36	9	6.5	6	6	#8	#4	12
40-49.9	36	9.5	6.5	6	6	#8	#4	12
50-59.9	36	10	6.5	6	6	#8	#4	12
60-69.9	36	10.5	6.5	6	6	#8	#4	12
70-79.9	36	11	6.5	6	6	#8	#4	12
80-89.9	36	11.5	6.5	6	6	#8	#4	12
90-99.9	36	12	6.5	6	6	#8	#4	12
100-109.9	36	12.5	6.5	6	6	#8	#4	12
150-199.9	36	15.5	6.5	6	6	#8	#4	12
200-249.9	36	17.5	6.5	6	6	#8	#4	12
250-299.9	36	18.5	6.5	6	6	#8	#4	12
300-399.9	36	21.5	6.5	6	6	#8	#4	12
400-499.9	42	21.5	7.5	7	7	#8	#4	6
500-600	48	22.5	7.5	7.5	7.5	#9	#4	12

SUBSECTION: 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.

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REVISED 8-9-2021

DESIGNED BY: JRG  
DATE SUBMITTED: 10/1/2020

**Commonwealth of Kentucky**  
**DEPARTMENT OF HIGHWAYS**  
COUNTY OF  
**WARREN**

PROJECT NO. FD04 114 031W 005-007  
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