TOTAL UNITS CODE ITEM DESCRIPTION CONDUIT 1 INCH LIN FT 4792 LIN FT 4795 CONDUIT 2 INCH ELECTRICAL JUNCTION BOX TYPE B EACH 4811 LIN FT 4820 TRENCHING AND BACKFILLING 1,600 LIN FT 4830 LOOP WIRE LIN FT 4844 CABLE-NO. 14/5C 1.860 LIN FT 4850 CABLE-NO. 14/1 PAIR 1.880 LIN FT 4895 LOOP SAW SLOT AND FILL 24955ed EACH REMOVE SIGNAL EQUIPMENT 20390NS835 INSTALL COORDINATING UNIT EACH 20391NS835 ELECTRICAL JUNCTION BOX TYPE A EACH

INSTALL LED BEACON-12 IN

PVC CONDUIT - 11/4 INCH - SCHEDULE 80

PVC CONDUIT - 2 INCH - SCHEDULE 80

INSTALL SIGNAL CONTROLLER-TY ATC

SBM ALUM SHEET SIGNS .080 IN

SBM ALUM SHEET SIGNS .125 IN

CLASS A CONCRETE FOR SIGNS

BORE AND JACK CONDUIT

STEEL POST TYPE 1

GMSS TYPE D

REMOVE SIGN

20408ES835 EACH LIN FT 21543EN 110 LIN FT 24900EC 1600 LIN FT 24901EC 60 EACH 24908EC SQFT 6406 SQFT 320 6407 90

LF 6410 EACH 21596ND CUYDS 6490 21373ND EACH

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 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 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 (502-782-8994/ 502-330-8153 OR EMAIL KIM.STAMPER@KY.GOV) AND ARRANGE TO PICK UP INSTALL ITEMS A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. THE CONTRACTOR SHALL ALSO CONTACT THE SIGNAL SYSTEM BRANCH (502-782-5543/502-782-5547 OR EMAIL JOE. THOMPSON@KY.GOV/ LARRY.IRISH@KY.GOV) TO ARRANGE PROGRAMMING OF THE ROUTER USED FOR COMMUNCATION IN THE TRAFFIC SIGNAL A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO ARRIVAL. FAILURE TO PROVIDE POLE YARD PERSONNEL/ SIGNAL SYSTEM BRANCH 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

CONTACT DISTRICT TRAFFIC ENGINEER AND CENTRAL OFFICE ENGINEER 2 WEEKS PRIOR TO TURN FOR THIS INSTALLATION. THE DISTRICT ENGINEER IS LINZY BREFELD AND CENTRAL OFFICE ENGINEER IS JOE CARTER.

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.

TYPE D BREAKAWAY SIGN SUPPORTS. THE DEPARTMENT WILL MEASURE TYPE D SIGN SUPPORTS AS EACH SUPPORT INSTALLED.

SIGN POSTS. THE DEPARTMENT WILL MEASURE THE FINISHED IN-PLACE LENGTH OF SIGN POSTS IN LINEAR FEET, FROM THE TOP OF THE ANCHOR, OR TOP OF THE SIGN SUPPORT. TO THE TOP OF THE SIGN POST. LAPS, CUTOFFS, EXCESS, AND WASTE WILL NOT BE MEASURED FOR PAYMENT. THE DEPARTMENT WILL NOT MEASURE CONDUIT FROM JUNCTION BOX TO SIGNAL HEADS ON SIDE MOUNTED SIGN, CONDUIT FITTINGS AND STRAPS, OR ANY ASSOCIATED SIGN MOUNTING HARDWARE AND WILL CONSIDER THESE INCIDENTAL TO THIS ITEM OF WORK.

SIGNS. THE DEPARTMENT WILL MEASURE THE FINISHED IN-PLACE AREA OF SIGNS IN SQUARE FEET.

CLASS A CONCRETE FOR SIGNS. THE DEPARTMENT WILL MEASURE THE CLASS A CONCRETE USED IN CONJUNCTION WITH TYPE D BREAKAWAY SIGN SUPPORT INSTALLATIONS IN CUBIC YARDS. ANY CONCRETE THAT IS REQUIRED AS BACKFILL DUE TO HITTING ROCK DURING A STANDARD INSTALLATION SHALL BE INCIDENTAL TO THE BID ITEM STEEL POST TYPE I, AND SOIL STABILIZERS WILL NOT BE REQUIRED.

REMOVE SIGN. THE DEPARTMENT WILL CONSIDER ALL SIGNS ATTACHED TO ONE OR MORE CONNECTED POSTS AS A SINGLE SIGN. THE DEPARTMENT WILL MEASURE AS EACH SIGN ASSEMBLY REMOVED AND NOT EACH INDIVIDUAL SIGN REMOVED.

SHEET NO. ITEM NO. KENTON T1 6-9018.01

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.13 LOOP INSTALLATION.

REVISION: REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:

TWIST UNSHIELDED LOOP WIRE (IMSA 51-7) WITH 3 TO 5 TURNS FROM THE START OF HOMERUN TO THE INSIDE CONDUIT, JUNCTION BOX, CABINET, OR POLE. TWIST UNSHIELDED LOOP WIRES (IMSA 51-7) WITH 3 TO 5 TURNS PER FOOT FROM THE START OF THE HOMERUN TO THE JUNCTION BOX, CABINET, OR POLE. SLOT CAN BE WIDEN TO

1/2" to 5/8" TO HELP WITH THE INSTALLATION OF THE TWISTED WIRE.

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.

NOTES: Signs and Posts. Before beginning installation, the Contractor shall furnish to the Engineer drawings, descriptions, manufacturer's cuts, etc. covering all material to be used. Mill test reports for beams, steel panels, and each different gauge of aluminum or steel sheeting used must be submitted to the Division of Construction and approved prior to erection.

All hardware for the erection of sheeting signs shall be rust resistant: stainless steel, zinc coated, aluminum, or an Engineer approved material. All beams and posts shall be of sufficient lengths to extend from the top of the sign to the required embedment in the anchor. Splicing of the sign post shall NOT be allowed. For installations in soil, Type I steel posts shall be mounted on either a standard anchor, with soil stabilizer plate, or on a Type D breakaway sign support. Refer to Sheeting Sign Detail Sheet 1 of 2 for installation details for a standard anchor with soil stabilizer plate. When installing a standard anchor with soil stabilizer plate, if solid rock is encountered, the Contractor shall drill a hole to the required depth into the rock, install the anchor into the hole, and backfill the anchor post with concrete, or other method approved by the Engineer. The cost shall be incidental to Type I steel post, and a soil stabilizer plate will not be required. Refer to Standard Drawing RGX-065, current edition, for installation details of Type D breakaway sign supports. Approved manufacturers for Type D breakaway sign supports have been placed on the list of approved materials. All hardware including, but not limited to, sign post anchors, soil stabilizer plates, nuts, bolts, washers, fasteners, fittings, and bracing, or any other incidentals necessary to erect the signs shall be furnished by the Contractor and will be incidental to the work.

New concrete bases, posts, support anchors, signs, etc. are to be installed prior to dismantling any existing sign(s). The removal of existing signs, posts, and support anchors is to be performed concurrently with the installation of new signs, posts, and support anchors, under the same lane closure during the same work shift. Completely remove existing sign support anchors or remove them to a minimum depth of six (6) inches below existing ground line and backfill the disturbed area to the existing ground line.

All manufactured sheeting signs shall be free of visual defects including, but not limited to: cracks, tears, ridges, humps, discoloration, etc., and defective signs shall be replaced at no additional cost to the Department.

All sign blanks shall be hole punched by the manufacturer for either horizontal or vertical installation. Attach all aluminum sheeting signs to square post with 3/8" all steel rivets and nylon washers.

Post will be attached to the anchor with 5/16" corner bolts and 5/16" flanged nuts, and all post and anchor cuts shall be treated with a Cold Galvanizing Compound spray.

Sign posts shall be erected vertically by using a bubble level. The tolerance shall be a two (2) dearee anale in any direction. For locations where there are more than one sign is mounted beside each other, the posts shall be spaced to provide approximately six inches (6") of spacing between sings.

DESIGNED BY: TAS
DATE SUBMITTED: 9-20-2019

Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF

KENTON

JUMBERS:

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









