



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

Matthew G. Bevin
Governor

Greg Thomas
Secretary

September 27, 2016

CALL NO. 106
CONTRACT ID NO. 161256
ADDENDUM # 2

Subject: Jefferson County, NHPP IM 2653 (039)
Letting September 30, 2016

- (1) Revised - Plans - T001
- (2) Revised - Bid Items - Pages 208-211 of 211

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

Plan revisions are available at <http://www.lynnimaging.com/kytransportation/>.

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:ks
Enclosures



An Equal Opportunity Employer M/F/D

REVISED 9-27-16

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

OFF RAMP TOTAL	ITS CCTV TOTAL	TOTAL	UNITS	CODE	ITEM DESCRIPTION
20	0	20	LIN FT	4792	CONDUIT 1 INCH
70	0	70	LIN FT	4793	CONDUIT 1 1/4 INCH
0	650	650	LIN FT	24124EC	PVC CONDUIT 2" SCH 40
2	0	2	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
80	750	830	LIN FT	4820	TRENCHING AND BACKFILLING
1000	0	1000	LIN FT	4830	LOOP WIRE
1700	0	1700	LIN FT	4844	CABLE-NO. 14/5C
1000	0	1000	LIN FT	4850	CABLE-NO. 14/1 PAIR
0	1	1	EACH	4873	POLE 45' WOODEN
0	2	2	EACH	4884	ANCHOR
600	100	700	LIN FT	4885	MESSENGER-10800 LB
500	0	500	LIN FT	4895	LOOP SAW SLOT AND FILL
0	210	210	LIN FT	4795	CONDUIT 2 INCH
1	0	1	EACH	4931	INSTALL SIG CONTROLLER-TYPE 170
4	0	4	LP SUM	4932	INSTALL STEEL STRAIN POLE
1	0	1	EACH	4950	REMOVE SIGNAL EQUIPMENT
10	0	10	EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED
1	0	1	EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED
0	2	2	EACH	2039NS835	ELECTRICAL JUNCTION BOX TYPE A
0	210	210	LIN FT	21543EN	BORE AND JACK CONDUIT
18	0	18	CU YD	23157EN	TRAFFIC SIGNAL POLE BASE
0	0	0	EACH	23922EC	INSTALL WIREM
0	2000	2000	LIN FT	4835	WIRE-NO.4

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) 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".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
REVISION: REPLACE THE FIRST PARAGRAPH WITH THE FOLLOWING: REGARDLESS OF THE STATION AND OFFSET NOTED, LOCATE ALL POLES/BASES BEHIND THE GUARDRAIL A MINIMUM OF FOUR FEET FROM THE FRONT FACE OF THE GUARDRAIL TO THE FRONT FACE OF THE POLE BASE. ORIENT THE HANDHOLE DOOR AWAY FROM TRAFFIC TRAVEL PATH. IF POLE BASE IS INSTALLED WITHIN A SIDEWALK THE TOP OF THE POLE BASE SHALL BE THE SAME GRADE AS THE SIDEWALK.

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
PART: A) STEEL STRAIN MAST ARM POLE INSTALLATION.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE BEGINNING OF THE FIRST PARAGRAPH: INSTALL POLE BASES 4 TO 6 INCHES ABOVE GRADE.

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
PART: A) STEEL STRAIN AND MAST ARM POLE INSTALLATION.
REVISION: REPLACE THE SECOND PARAGRAPH WITH THE FOLLOWING: FOR CONCRETE BASE INSTALLATION, SEE SUBSECTION 716.03.02 B), 2), PARAGRAPHS 2-6. DRILLED SHAFT DEPTH SHALL BE BASED ON THE SOIL CONDITIONS ENCOUNTERED DURING DRILLING AND SLOPE CONDITION AT THE SITE. REFER TO THE DESIGN CHART BELOW.

SUBSECTION: 03.03 TRENCHING.
REVISION: REPLACE THE FIRST SENTENCE WITH THE FOLLOWING: SEE SUBSECTION 716.03.03 (B).

SUBSECTION: 03.03 TRENCHING.
PART: A) UNDER ROADWAY
REVISION: DELETE PART A) UNDER ROADWAY.

SUBSECTION: 03.05 CONDUIT REQUIREMENTS IN JUNCTION BOXES.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.05 FUSE CONNECTOR KITS. SEE SUBSECTION 716.03.09.

SUBSECTION: 03.06 COUPLING INSTALLATION.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.06 PAINTING. SEE SUBSECTION 716.03.15.

SUBSECTION: 03.07 BONDING REQUIREMENTS.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.07 ELECTRICAL JUNCTION BOXES. SEE SUBSECTION 716.03.10.

SUBSECTION: 03.15 PAINTING
REVISION: REMOVE TITLE AND REVISED TO REMOVE SIGNAL EQUIPMENT. REPLACE ENTIRE NOTE WITH THE FOLLOWING:

REMOVE ALL TRAFFIC SIGNAL EQUIPMENT THAT IS IDENTIFIED BY THE ENGINEER AS NO LONGER NECESSARY INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: POLE BASES, POLES, JUNCTION BOXES, CABINETS, WOOD POLES, AND ADVANCE WARNING FLASHERS. POLE BASES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE BY CHIPPING OFF OR OTHER METHOD THAT IS APPROVED BY THE ENGINEER. DISPOSE OF ALL REMOVED CONCRETE OFF RIGHT-OF-WAY. WOOD POLES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE. BACKFILL HOLES WITH MATERIAL APPROVED BY THE ENGINEER. CONDUIT MAY BE ABANDONED IN THE GROUND. CONTACT THE DISTRICT TRAFFIC ENGINEER TO DETERMINE IF ANY REMOVED SIGNAL EQUIPMENT NEEDS TO BE RETURNED TO THE DISTRICT AND TO DETERMINE THE LOCATION/TIME FOR SUCH DELIVERIES.

SUBSECTION: 03.17 ACCEPTANCE AND INSPECTION REQUIREMENTS.
REVISION: REPLACE THE FIRST PARAGRAPH OF THE SECTION WITH THE FOLLOWING: SEE SUBSECTION 105.12. IN COORDINATION WITH THE DISTRICT TRAFFIC ENGINEER, ENERGIZE TRAFFIC CONTROL DEVICE AS SOON AS IT IS FULLY FUNCTIONAL AND READY FOR INSPECTION. AFTER THE WORK HAS BEEN COMPLETED, CONDUCT AN OPERATIONAL TEST DEMONSTRATING THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE PLANS IN THE PRESENCE OF THE ENGINEER. THE DEPARTMENT WILL ALSO CONDUCT ITS OWN TESTS WITH ITS OWN EQUIPMENT BEFORE FINAL ACCEPTANCE. ENSURE THAT THE TRAFFIC CONTROL DEVICE REMAINS OPERATIONAL UNTIL THE DIVISION OF TRAFFIC OPERATIONS HAS PROVIDED WRITTEN ACCEPTANCE OF THE ELECTRICAL WORK.

SUBSECTION: 04.01 CONDUIT
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE CONDUIT FITTINGS, GROUND LUGS, TEST PLUGS, EXPANSION JOINTS, AND CLAMPS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.02 ELECTRICAL JUNCTION BOX TYPE VARIOUS.
REVISION: REPLACE THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS THAN THOSE IDENTIFIED IN PLANS, AGGREGATE (#57), BACKFILLING, RESTORATION OF DISTURBED AREAS TO THE SATISFACTION OF THE ENGINEER, GEOTEXTILE FABRIC, CONCRETE, HOT DIPPED GALVANIZED COVER, STAINLESS STEEL SCREWS, RUBBER GASKET, AND ANY ASSOCIATED HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.03 TRENCHING AND BACKFILLING.
REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, UNDERGROUND UTILITY WARNING TAPE, AND THE RESTORATION OF DISTURBED AREAS TO ORIGINAL CONDITION FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.05 LOOP WIRE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SPLICE BOOTS, CABLE RINGS, AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.06 CABLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SPLICE BOOTS, CABLE RINGS, AND ANY OTHER HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.07 POLE- WOODEN.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.08 STEEL STRAIN POLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.12 ANCHOR.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE DOWN-GUY, MESSENGER, CLAMPS, GUY GUARD, OR INSULATORS AND POSSIBLE INSTALLATION IN VARIOUS SOIL CONDITIONS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.13 MESSENGER.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE STRAND VISES, BOLTS, WASHERS, AND OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.15 LOOP SAW SLOT AND FILL.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SAWING, CLEANING, FILLING INDUCTION LOOP SAW SLOT, LOOP SEALANT, BACKER ROD, DRILLING HOLE FOR CONDUIT, AND GROUT FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.17 SIGNAL.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING LED MODULES, RETROREFLECTIVE TAPE, BACK PLATES, AND ANY OTHER HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.18 SIGNAL CONTROLLER TYPE 170.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: 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 BUILDING FEES INVOLVING SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND CONNECTING THE INDUCTION OF LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD, ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOFF, FUSES, GROUND RODS, GROUND WIRES, AND GROUND LUGS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.19 BEACON CONTROLLER 2 CIRCUIT.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE THE CONTROLLER HOUSING, MOUNTING EQUIPMENT, S5-1 SCHOOL ZONE SIGN, TIME CLOCK, NEMA FLASHER, GROUND RODS, GROUND WIRES, GROUND LUGS, METERING DISCONNECT HARDWARE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.20 INSTALL SIGNAL CONTROLLER TYPE 170.
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: 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 CUTOFF, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.21 INSTALL STEEL STRAIN POLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE ANY NECESSARY CLAMP ASSEMBLIES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

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.

SUBSECTION: 04.24 INSTALL PEDESTRIAN HEAD LED.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE END OF THE PARAGRAPH: THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF LED MODULES AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.25 INSTALL SIGNAL LED.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE END OF THE PARAGRAPH: THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF LED MODULES, RETROREFLECTIVE TAPE, BACK PLATES, AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.30 BORE AND JACK CONDUIT.
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY IN LINEAR FEET. THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR BORING AND INSTALLING CONDUIT UNDER AN EXISTING ROADWAY.

SUBSECTION: 04.36 TRAFFIC SIGNAL POLE BASE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, RESTORATION, FURNISHING AND INSTALLING REINFORCING STEEL, ANCHOR BOLTS, CONDUITS, GROUND RODS, GROUND WIRES, AND GROUND LUGS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.39 INSTALL ANTENNA.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE ANY OTHER MATERIALS NECESSARY TO COMPLETE THE INSTALLATION FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716:

SUBSECTION: 03.04 CONDUIT INSTALLATION.
REVISION: ADD THE FOLLOWING TO THE PART TO THE SUBSECTION: G) BORE AND JACK. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SUBSECTIONS 706.03.02, PARAGRAPHS 1, 2 AND 4.

FILE NAME: G:\USERS\SHANNON.RIDDLE\DESKTOP\RESHEET\OLDER\TOO100SU.DGN
USER: shannon.riddle
DATE PLOTTED: September 27, 2016
E-SHEET NAME: TOO100SU
MicroStation v8.11.9.832

DESIGNED BY: S.RIDDLE
DATE SUBMITTED:
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF JEFFERSON
PROJECT NUMBERS:
TRAFFIC SIGNAL I265 AT KY3084 ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

OFF RAMP TOTAL	ITS CCTV TOTAL	TOTAL	UNITS	CODE	ITEM DESCRIPTION
20	0	20	LIN FT	4792	CONDUIT 1 INCH
70	0	70	LIN FT	4793	CONDUIT 1 1/4 INCH
0	650	650	LIN FT	24124EC	PVC CONDUIT 2" SCH 40
2	0	2	EACH	4811	ELECTRICAL JUNCTION BOX TYPE B
80	750	830	LIN FT	4820	TRENCHING AND BACKFILLING
1000	0	1000	LIN FT	4830	LOOP WIRE
1700	0	1700	LIN FT	4844	CABLE-NO. 14/5C
1000	0	1000	LIN FT	4850	CABLE-NO. 14/1 PAIR
0	1	1	EACH	4873	POLE 45' WOODEN
0	2	2	EACH	4884	ANCHOR
600	100	700	LIN FT	4885	MESSENGER-10800 LB
500	0	500	LIN FT	4895	LOOP SAW SLOT AND FILL
0	210	210	LIN FT	4795	CONDUIT 2 INCH
1	0	1	EACH	4931	INSTALL SIG CONTROLLER-TYPE 170
4	0	4	LP SUM	4932	INSTALL STEEL STRAIN POLE
1	0	1	EACH	4950	REMOVE SIGNAL EQUIPMENT
10	0	10	EACH	20188NS835	INSTALL SIGNAL-3 SECTION LED
1	0	1	EACH	20266ES835	INSTALL SIGNAL-4 SECTION LED
0	2	2	EACH	2039INS835	ELECTRICAL JUNCTION BOX TYPE A
0	210	210	LIN FT	21543EN	BORE AND JACK CONDUIT
18	0	18	CU YD	23157EN	TRAFFIC SIGNAL POLE BASE
1	0	1	EACH	23982EC	INSTALL ANTENNA
0	2000	2000	LIN FT	4835	WIRE-NO.4

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) 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".

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 723

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
REVISION: REPLACE THE FIRST PARAGRAPH WITH THE FOLLOWING: REGARDLESS OF THE STATION AND OFFSET NOTED, LOCATE ALL POLES/BASES BEHIND THE GUARDRAIL A MINIMUM OF FOUR FEET FROM THE FRONT FACE OF THE GUARDRAIL TO THE FRONT FACE OF THE POLE BASE. ORIENT THE HANDHOLE DOOR AWAY FROM TRAFFIC TRAVEL PATH. IF POLE BASE IS INSTALLED WITHIN A SIDEWALK THE TOP OF THE POLE BASE SHALL BE THE SAME GRADE AS THE SIDEWALK.

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
PART: A) STEEL STRAIN MAST ARM POLE INSTALLATION.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE BEGINNING OF THE FIRST PARAGRAPH: INSTALL POLE BASES 4 TO 6 INCHES ABOVE GRADE.

SUBSECTION: 03.02 POLE AND BASE INSTALLATION.
PART: A) STEEL STRAIN AND MAST ARM POLE INSTALLATION.
REVISION: REPLACE THE SECOND PARAGRAPH WITH THE FOLLOWING: FOR CONCRETE BASE INSTALLATION, SEE SUBSECTION 716.03.02 B), 2), PARAGRAPHS 2-6. DRILLED SHAFT DEPTH SHALL BE BASED ON THE SOIL CONDITIONS ENCOUNTERED DURING DRILLING AND SLOPE CONDITION AT THE SITE. REFER TO THE DESIGN CHART BELOW.

SUBSECTION: 03.03 TRENCHING.
REVISION: REPLACE THE FIRST SENTENCE WITH THE FOLLOWING: SEE SUBSECTION 716.03.03 (B).

SUBSECTION: 03.03 TRENCHING.
PART: A) UNDER ROADWAY
REVISION: DELETE PART A) UNDER ROADWAY.

SUBSECTION: 03.05 CONDUIT REQUIREMENTS IN JUNCTION BOXES.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.05 FUSE CONNECTOR KITS. SEE SUBSECTION 716.03.09.

SUBSECTION: 03.06 COUPLING INSTALLATION.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.06 PAINTING. SEE SUBSECTION 716.03.15.

SUBSECTION: 03.07 BONDING REQUIREMENTS.
REVISION: DELETE THE SUBSECTION AND REPLACE WITH THE FOLLOWING: 723.03.07 ELECTRICAL JUNCTION BOXES. SEE SUBSECTION 716.03.10.

SUBSECTION: 03.15 PAINTING
REVISION: REMOVE TITLE AND REVISED TO REMOVE SIGNAL EQUIPMENT. REPLACE ENTIRE NOTE WITH THE FOLLOWING:

REMOVE ALL TRAFFIC SIGNAL EQUIPMENT THAT IS IDENTIFIED BY THE ENGINEER AS NO LONGER NECESSARY INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: POLE BASES, POLES, JUNCTION BOXES, CABINETS, WOOD POLES, AND ADVANCE WARNING FLASHERS. POLE BASES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE BY CHIPPING OFF OR OTHER METHOD THAT IS APPROVED BY THE ENGINEER. DISPOSE OF ALL REMOVED CONCRETE OFF RIGHT-OF-WAY. WOOD POLES SHALL BE REMOVED A MINIMUM OF ONE FOOT BELOW FINISHED GRADE. BACKFILL HOLES WITH MATERIAL APPROVED BY THE ENGINEER. CONDUIT MAY BE ABANDONED IN THE GROUND. CONTACT THE DISTRICT TRAFFIC ENGINEER TO DETERMINE IF ANY REMOVED SIGNAL EQUIPMENT NEEDS TO BE RETURNED TO THE DISTRICT AND TO DETERMINE THE LOCATION/TIME FOR SUCH DELIVERIES.

SUBSECTION: 03.17 ACCEPTANCE AND INSPECTION REQUIREMENTS.
REVISION: REPLACE THE FIRST PARAGRAPH OF THE SECTION WITH THE FOLLOWING: SEE SUBSECTION 105.12. IN COORDINATION WITH THE DISTRICT TRAFFIC ENGINEER, ENERGIZE TRAFFIC CONTROL DEVICE AS SOON AS IT IS FULLY FUNCTIONAL AND READY FOR INSPECTION. AFTER THE WORK HAS BEEN COMPLETED, CONDUCT AN OPERATIONAL TEST DEMONSTRATING THAT THE SYSTEM OPERATES IN ACCORDANCE WITH THE PLANS IN THE PRESENCE OF THE ENGINEER. THE DEPARTMENT WILL ALSO CONDUCT ITS OWN TESTS WITH ITS OWN EQUIPMENT BEFORE FINAL ACCEPTANCE. ENSURE THAT THE TRAFFIC CONTROL DEVICE REMAINS OPERATIONAL UNTIL THE DIVISION OF TRAFFIC OPERATIONS HAS PROVIDED WRITTEN ACCEPTANCE OF THE ELECTRICAL WORK.

SUBSECTION: 04.01 CONDUIT
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE CONDUIT FITTINGS, GROUND LUGS, TEST PLUGS, EXPANSION JOINTS, AND CLAMPS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.02 ELECTRICAL JUNCTION BOX TYPE VARIOUS.
REVISION: REPLACE THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY AS EACH INDIVIDUAL UNIT FURNISHED AND INSTALLED. THE DEPARTMENT WILL NOT MEASURE ADDITIONAL JUNCTION BOXES FOR GREATER DEPTHS THAN THOSE IDENTIFIED IN PLANS, AGGREGATE (#57), BACKFILLING RESTORATION OF DISTURBED AREAS TO THE SATISFACTION OF THE ENGINEER, GEOTEXTILE FABRIC, CONCRETE, HOT DIPPED GALVANIZED COVER, STAINLESS STEEL SCREWS, RUBBER GASKET, AND ANY ASSOCIATED HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.03 TRENCHING AND BACKFILLING.
REVISION: REPLACE THE SECOND SENTENCE WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, UNDERGROUND UTILITY WARNING TAPE, AND THE RESTORATION OF DISTURBED AREAS TO ORIGINAL CONDITION FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.05 LOOP WIRE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SPLICE BOOTS, CABLE RINGS, AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.06 CABLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SPLICE BOOTS, CABLE RINGS, AND ANY OTHER HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.07 POLE- WOODEN.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.08 STEEL STRAIN POLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, AND RESTORING DISTURBED AREAS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.12 ANCHOR.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE DOWN-GUY, MESSENGER, CLAMPS, GUY GUARD, OR INSULATORS AND POSSIBLE INSTALLATION IN VARIOUS SOIL CONDITIONS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.13 MESSENGER.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE STRAND VISES, BOLTS, WASHERS, AND OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.15 LOOP SAW SLOT AND FILL.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE SAWING, CLEANING, FILLING INDUCTION LOOP SAW SLOT, LOOP SEALANT, BACKER ROD, DRILLING HOLE FOR CONDUIT, AND GROUT FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.17 SIGNAL.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE FURNISHING AND INSTALLING LED MODULES, RETROREFLECTIVE TAPE, BACK PLATES, AND ANY OTHER HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.18 SIGNAL CONTROLLER TYPE 170.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: 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 BUILDING FEES INVOLVING SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK. THE DEPARTMENT WILL ALSO NOT MEASURE FURNISHING AND CONNECTING THE INDUCTION OF LOOP AMPLIFIERS, PEDESTRIAN ISOLATORS, LOAD SWITCHES, MODEL 400 MODEM CARD, ELECTRICAL SERVICE CONDUCTORS, CONDUITS, ANCHORS, METER BASE, FUSED CUTOFF, FUSES, GROUND RODS, GROUND WIRES, AND GROUND LUGS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.19 BEACON CONTROLLER 2 CIRCUIT.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE THE CONTROLLER HOUSING, MOUNTING EQUIPMENT, S5-1 SCHOOL ZONE SIGN, TIME CLOCK, NEMA FLASHER, GROUND RODS, GROUND WIRES, GROUND LUGS, METERING DISCONNECT HARDWARE, ELECTRICAL INSPECTION FEES, AND REQUIRED BUILDING FEES INVOLVING UTILITY SECONDARY/PRIMARY SERVICE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.20 INSTALL SIGNAL CONTROLLER TYPE 170.
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: 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 CUTOFF, FUSES, GROUND RODS, GROUND LUGS, AND GROUND WIRES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.21 INSTALL STEEL STRAIN POLE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE ANY NECESSARY CLAMP ASSEMBLIES FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

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.

SUBSECTION: 04.24 INSTALL PEDESTRIAN HEAD LED.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE END OF THE PARAGRAPH: THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF LED MODULES AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.25 INSTALL SIGNAL LED.
REVISION: INSERT THE FOLLOWING SENTENCE AT THE END OF THE PARAGRAPH: THE DEPARTMENT WILL NOT MEASURE THE INSTALLATION OF LED MODULES, RETROREFLECTIVE TAPE, BACK PLATES, AND ANY OTHER NECESSARY HARDWARE FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.30 BORE AND JACK CONDUIT.
REVISION: REPLACE THE PARAGRAPH WITH THE FOLLOWING: THE DEPARTMENT WILL MEASURE THE QUANTITY IN LINEAR FEET. THIS ITEM SHALL INCLUDE ALL WORK NECESSARY FOR BORING AND INSTALLING CONDUIT UNDER AN EXISTING ROADWAY.

SUBSECTION: 04.36 TRAFFIC SIGNAL POLE BASE.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE EXCAVATION, BACKFILLING, RESTORATION, FURNISHING AND INSTALLING REINFORCING STEEL, ANCHOR BOLTS, CONDUITS, GROUND RODS, GROUND WIRES, AND GROUND LUGS FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

SUBSECTION: 04.39 INSTALL ANTENNA.
REVISION: REPLACE THE SECOND SENTENCE OF THE SUBSECTION WITH THE FOLLOWING: THE DEPARTMENT WILL NOT MEASURE ANY OTHER MATERIALS NECESSARY TO COMPLETE THE INSTALLATION FOR PAYMENT AND WILL CONSIDER THEM INCIDENTAL TO THIS ITEM OF WORK.

CONSTRUCTION AND MEASUREMENT NOTES THAT ARE CONTRARY TO SECTION 716:

SUBSECTION: 03.04 CONDUIT INSTALLATION.
REVISION: ADD THE FOLLOWING TO THE PART TO THE SUBSECTION: G) BORE AND JACK. CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH SUBSECTIONS 706.03.02, PARAGRAPHS 1, 2 AND 4.

FILE NAME: G:\USERS\SHANNON.RIDDLE\DESKTOP\RESHEET\OLDER\T00100SU.DGN

USERS: shannon.riddle
DATE PLOTTED: September 27, 2016

E-SHEET NAME: T00100SU

MicroStation v8.11.9.832

DESIGNED BY: S.RIDDLE
DATE SUBMITTED:
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY OF JEFFERSON
PROJECT _____ NUMBERS: _____
TRAFFIC SIGNAL I265 AT KY3084 ESTIMATE OF QUANTITIES MEASUREMENT, CONST, AND MISC NOTES

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	5,471.00	TON		\$	
0020	00078		CRUSHED AGGREGATE SIZE NO 2	15,297.00	TON		\$	
0030	00100		ASPHALT SEAL AGGREGATE	52.00	TON		\$	
0040	00103		ASPHALT SEAL COAT	7.00	TON		\$	
0050	02069		JPC PAVEMENT-10 IN	6,137.00	SQYD		\$	
0060	02081		JPC PAVEMENT-8 IN SHLD	2,641.00	SQYD		\$	
0070	02083		JPC PAVEMENT-10 IN SHLD	1,130.00	SQYD		\$	
0080	02084		JPC PAVEMENT-8 IN	5,301.00	SQYD		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0090	01000		PERFORATED PIPE-4 IN	56.00	LF		\$	
0100	01010		NON-PERFORATED PIPE-4 IN	16.00	LF		\$	
0110	01020		PERF PIPE HEADWALL TY 1-4 IN	1.00	EACH		\$	
0120	01028		PERF PIPE HEADWALL TY 3-4 IN	1.00	EACH		\$	
0130	01890		ISLAND HEADER CURB TYPE 1	114.60	LF		\$	
0140	01919		STANDARD BARRIER MEDIAN TYPE 3	1,734.00	SQYD		\$	
0150	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	31.00	EACH		\$	
0160	02003		RELOCATE TEMP CONC BARRIER	1,200.00	LF		\$	
0170	02014		BARRICADE-TYPE III	4.00	EACH		\$	
0180	02058		REMOVE PCC PAVEMENT	7,548.00	SQYD		\$	
0190	02060		PCC PAVEMENT DIAMOND GRINDING	43,725.00	SQYD		\$	
0200	02159		TEMP DITCH	5,808.00	LF		\$	
0210	02160		CLEAN TEMP DITCH	5,808.00	LF		\$	
0220	02200		ROADWAY EXCAVATION	24,964.00	CUYD		\$	
0230	02242		WATER (FOR DUST CONTROL)	120.00	MGAL		\$	
0240	02261		FENCE-WOVEN WIRE	250.00	LF		\$	
0250	02265		REMOVE FENCE	250.00	LF		\$	
0260	02351		GUARDRAIL-STEEL W BEAM-S FACE	2,012.50	LF		\$	
0270	02360		GUARDRAIL TERMINAL SECTION NO 1	1.00	EACH		\$	
0280	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	2.00	EACH		\$	
0290	02381		REMOVE GUARDRAIL	2,619.00	LF		\$	
0300	02391		GUARDRAIL END TREATMENT TYPE 4A	2.00	EACH		\$	
0310	02483		CHANNEL LINING CLASS II	2,613.00	TON		\$	
0320	02484		CHANNEL LINING CLASS III	277.00	TON		\$	
0330	02545		CLEARING AND GRUBBING (APPROXIMATELY 29.0 ACRES)	1.00	LS		\$	
0340	02562		TEMPORARY SIGNS	544.00	SQFT		\$	
0350	02599		FABRIC-GEOTEXTILE TYPE IV	2,000.00	SQYD		\$	
0360	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0370	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0380	02701		TEMP SILT FENCE	2,904.00	LF		\$	
0390	02703		SILT TRAP TYPE A	58.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0400	02704		SILT TRAP TYPE B	58.00	EACH		\$	
0410	02705		SILT TRAP TYPE C	29.00	EACH		\$	
0420	02706		CLEAN SILT TRAP TYPE A	174.00	EACH		\$	
0430	02707		CLEAN SILT TRAP TYPE B	174.00	EACH		\$	
0440	02708		CLEAN SILT TRAP TYPE C	87.00	EACH		\$	
0450	02726		STAKING	1.00	LS		\$	
0460	02775		ARROW PANEL	2.00	EACH		\$	
0470	02898		RELOCATE CRASH CUSHION	2.00	EACH		\$	
0480	03171		CONCRETE BARRIER WALL TYPE 9T	2,100.00	LF		\$	
0490	03295		EXPAN JOINT REPLACE 2 IN	204.00	LF		\$	
0500	03299		ARMORED EDGE FOR CONCRETE	204.00	LF		\$	
0510	05950		EROSION CONTROL BLANKET	139.00	SQYD		\$	
0520	05952		TEMP MULCH	140,360.00	SQYD		\$	
0530	05953		TEMP SEEDING AND PROTECTION	140,360.00	SQYD		\$	
0540	05963		INITIAL FERTILIZER	14.60	TON		\$	
0550	05964		20-10-10 FERTILIZER	4.80	TON		\$	
0560	05985		SEEDING AND PROTECTION	91,960.00	SQYD		\$	
0570	05989		SPECIAL SEEDING CROWN VETCH	4,066.00	SQYD		\$	
0580	05992		AGRICULTURAL LIMESTONE	87.00	TON		\$	
0590	06540		PAVE STRIPING-THERMO-4 IN W YELLOW	10,770.00	LF		\$	
0600	06541		PAVE STRIPING-THERMO-4 IN Y	6,184.00	LF		\$	
0610	06542		PAVE STRIPING-THERMO-6 IN W	5,631.00	LF		\$	
0620	06543		PAVE STRIPING-THERMO-6 IN Y	3,312.00	LF		\$	
0630	06544		PAVE STRIPING-THERMO-8 IN W	365.00	LF		\$	
0640	06546		PAVE STRIPING-THERMO-12 IN W	369.00	LF		\$	
0650	06550		PAVE STRIPING-TEMP REM TAPE-W	16,247.00	LF		\$	
0660	06551		PAVE STRIPING-TEMP REM TAPE-Y	16,633.00	LF		\$	
0670	06568		PAVE MARKING-THERMO STOP BAR-24IN	369.00	LF		\$	
0680	06569		PAVE MARKING-THERMO CROSS-HATCH	8,219.00	SQFT		\$	
0690	06572		PAVE MARKING-DOTTED LANE EXTEN	276.00	LF		\$	
0700	06573		PAVE MARKING-THERMO STR ARROW	19.00	EACH		\$	
0710	06574		PAVE MARKING-THERMO CURV ARROW	110.00	EACH		\$	
0720	08504		EPOXY SAND SLURRY	80.00	SQYD		\$	
0730	08526		CONC CLASS M FULL DEPTH PATCH	33.00	CUYD		\$	
0740	08534		CONCRETE OVERLAY-LATEX	101.10	CUYD		\$	
0750	08540		JOINT SEALING	500.00	LF		\$	
0760	08549		BLAST CLEANING	2,998.00	SQYD		\$	
0770	08551		MACHINE PREP OF SLAB	2,998.00	SQYD		\$	
0780	10020NS		FUEL ADJUSTMENT	16,216.00	DOLL	\$1.00	\$	\$16,216.00
0790	20099ES842		PAVE MARK TEMP PAINT STOP BAR	103.00	LF		\$	
0800	20550ND		SAWCUT PAVEMENT	10,473.00	LF		\$	
0810	20738NS112		TEMP CRASH CUSHION	4.00	EACH		\$	
0820	22665EN		REMOVE NON-MOUNTABLE MEDIAN	3,785.00	SQYD		\$	
0830	24489EC		INLAID PAVEMENT MARKER	292.00	EACH		\$	
0840	24731EC		REMOVE AND RESET (CURB BOX INLET, TOP PHASE AT BRIDGE ENDS)	2.00	EACH		\$	

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SECTION: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0850	00469		CULVERT PIPE-42 IN	38.00	LF		\$	
0860	01214		PIPE CULVERT HEADWALL-42 IN	1.00	EACH		\$	
0870	01310		REMOVE PIPE	4.00	LF		\$	
0880	24076EC		CONCRETE ANCHOR (FOR PIPE)	1.00	EACH		\$	

Section: 0004 - BRIDGE - CULVERT #1 - DWG. 27563

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0890	02403		REMOVE CONCRETE MASONRY	25.70	CUYD		\$	
0900	02555		CONCRETE-CLASS B	17.30	CUYD		\$	
0910	08002		STRUCTURE EXCAV-SOLID ROCK	38.40	CUYD		\$	
0920	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0930	08100		CONCRETE-CLASS A	74.20	CUYD		\$	
0940	08150		STEEL REINFORCEMENT	10,335.00	LB		\$	

Section: 0005 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0950	06406		SBM ALUM SHEET SIGNS .080 IN	416.00	SQFT		\$	
0960	06407		SBM ALUM SHEET SIGNS .125 IN	90.00	SQFT		\$	
0970	06410		STEEL POST TYPE 1	991.00	LF		\$	
0980	06490		CLASS A CONCRETE FOR SIGNS	1.00	CUYD		\$	
0990	24631EC		BARCODE SIGN INVENTORY	143.00	EACH		\$	

Section: 0006 - SIGNALIZATION - OFF RAMP

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1000	04792		CONDUIT-1 IN	20.00	LF		\$	
1010	04793		CONDUIT-1 1/4 IN	70.00	LF		\$	
1020	04811		ELECTRICAL JUNCTION BOX TYPE B	2.00	EACH		\$	
1030	04820		TRENCHING AND BACKFILLING	80.00	LF		\$	
1040	04830		LOOP WIRE	1,000.00	LF		\$	
1050	04844		CABLE-NO. 14/5C	1,700.00	LF		\$	
1060	04850		CABLE-NO. 14/1 PAIR	1,000.00	LF		\$	
1070	04885		MESSENGER-10800 LB	600.00	LF		\$	
1080	04895		LOOP SAW SLOT AND FILL	500.00	LF		\$	
1090	04931		INSTALL CONTROLLER TYPE 170	1.00	EACH		\$	
1100	04932		INSTALL STEEL STRAIN POLE	4.00	EACH		\$	
1110	04950		REMOVE SIGNAL EQUIPMENT	1.00	EACH		\$	
1120	20188NS835		INSTALL LED SIGNAL-3 SECTION	10.00	EACH		\$	
1130	20266ES835		INSTALL LED SIGNAL- 4 SECTION	1.00	EACH		\$	
1140	23157EN		TRAFFIC SIGNAL POLE BASE	18.00	CUYD		\$	
1150	23982EC		INSTALL ANTENNA	1.00	EACH		\$	

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Section: 0007 - INTELLIGENT TRANSPORTATION SYSTEMS - CCTV

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1160	04795		CONDUIT-2 IN	210.00	LF		\$	
1170	04820		TRENCHING AND BACKFILLING	750.00	LF		\$	
1175	04835		WIRE-NO. 4 (ADDED: 9-27-16)	2,000.00	LF		\$	
1180	04873		POLE 45 FT WOODEN	1.00	EACH		\$	
1190	04884		ANCHOR	2.00	EACH		\$	
1200	04885		MESSENGER-10800 LB	100.00	LF		\$	
1210	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	2.00	EACH		\$	
1220	21543EN		BORE AND JACK CONDUIT	210.00	LF		\$	
1230	24124EC		PVC CONDUIT-2 IN-SCHEDULE 40	650.00	LF		\$	

Section: 0008 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1240	02568		MOBILIZATION	1.00	LS		\$	
1250	02569		DEMOBILIZATION	1.00	LS		\$	