



COMMONWEALTH OF KENTUCKY
TRANSPORTATION CABINET
www.transportation.ky.gov/

Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

March 8, 2021

CALL NO. 102
CONTRACT ID NO. 211311
ADDENDUM # 1

Subject: Boone County, CM 8124 (023)
Letting March 19, 2021

- (1) Revised - Proposal Bid Items - Pages 101-103 of 103
- (2) Revised - Plan Sheets - R5 General Summary, S006 Foundation Layout, S009 End Bent, T001 Lighting Quantities, T001 Signal Quantities, T006 Lighting Plan, T006 Signal Plan

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 black ink that reads "Rachel Mills". The signature is written in a cursive, flowing style.

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

RM:mr
Enclosures

PROPOSAL BID ITEMS

Report Date 3/8/21

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00003		CRUSHED STONE BASE	160.00	TON		\$	
0020	02071		JPC PAVEMENT-11 IN	427.00	SQYD		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0030	01830		STANDARD INTEGRAL CURB	698.00	LF		\$	
0040	01987		DELINEATOR FOR GUARDRAIL BI DIRECTIONAL WHITE	4.00	EACH		\$	
0050	02003		RELOCATE TEMP CONC BARRIER	520.00	LF		\$	
0060	02091		REMOVE PAVEMENT	83.00	SQYD		\$	
0070	02230		EMBANKMENT IN PLACE	1,713.00	CUYD		\$	
0080	02242		WATER	20.00	MGAL		\$	
0090	02351		GUARDRAIL-STEEL W BEAM-S FACE	255.00	LF		\$	
0100	02360		GUARDRAIL TERMINAL SECTION NO 1	2.00	EACH		\$	
0110	02363		GUARDRAIL CONNECTOR TO BRIDGE END TY A	4.00	EACH		\$	
0120	02367		GUARDRAIL END TREATMENT TYPE 1	2.00	EACH		\$	
0130	02381		REMOVE GUARDRAIL	122.00	LF		\$	
0140	02483		CHANNEL LINING CLASS II	20.00	TON		\$	
0150	02545		CLEARING AND GRUBBING (1.9 ACRES)	1.00	LS		\$	
0160	02562		TEMPORARY SIGNS	250.00	SQFT		\$	
0170	02625		REMOVE HEADWALL	1.00	EACH		\$	
0180	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0190	02701		TEMP SILT FENCE	2,000.00	LF		\$	
0200	02704		SILT TRAP TYPE B	3.00	EACH		\$	
0210	02705		SILT TRAP TYPE C	4.00	EACH		\$	
0220	02707		CLEAN SILT TRAP TYPE B	3.00	EACH		\$	
0230	02708		CLEAN SILT TRAP TYPE C	4.00	EACH		\$	
0240	02720		SIDEWALK-4 IN CONCRETE	1,061.00	SQYD		\$	
0250	02726		STAKING	1.00	LS		\$	
0260	02898		RELOCATE CRASH CUSHION	1.00	EACH		\$	
0270	03171		CONCRETE BARRIER WALL TYPE 9T	5,000.00	LF		\$	
0280	05950		EROSION CONTROL BLANKET	2,000.00	SQYD		\$	
0290	05952		TEMP MULCH	4,400.00	SQYD		\$	
0300	05953		TEMP SEEDING AND PROTECTION	4,400.00	SQYD		\$	
0310	05963		INITIAL FERTILIZER	1.00	TON		\$	
0320	05964		MAINTENANCE FERTILIZER	1.00	TON		\$	
0330	05985		SEEDING AND PROTECTION	8,800.00	SQYD		\$	
0340	05989		SPECIAL SEEDING CROWN VETCH	2,500.00	SQYD		\$	
0350	05990		SODDING	150.00	SQYD		\$	
0360	05997		TOPSOIL FURNISHED AND PLACED	118.00	CUYD		\$	
0370	06405		SBM ALUMINUM PANEL SIGNS	271.00	SQFT		\$	
0380	06411		STEEL POST TYPE 2	435.00	LF		\$	
0390	06517		PAVE STRIPING-PERM PAINT-12 IN	54.00	LF		\$	
0400	06542		PAVE STRIPING-THERMO-6 IN W	1,965.00	LF		\$	

PROPOSAL BID ITEMS

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Report Date 3/8/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	06543		PAVE STRIPING-THERMO-6 IN Y	705.00	LF		\$	
0420	06546		PAVE STRIPING-THERMO-12 IN W	600.00	LF		\$	
0430	06550		PAVE STRIPING-TEMP REM TAPE-W	9,000.00	LF		\$	
0440	06565		PAVE MARKING-THERMO X-WALK-6 IN	116.00	LF		\$	
0450	06568		PAVE MARKING-THERMO STOP BAR-24IN	47.00	LF		\$	
0460	06574		PAVE MARKING-THERMO CURV ARROW	4.00	EACH		\$	
0470	06576		PAVE MARKING-THERMO ONLY	4.00	EACH		\$	
0480	08901		CRASH CUSHION TY VI CLASS BT TL2	6.00	EACH		\$	
0490	20191ED		OBJECT MARKER TY 3	2.00	EACH		\$	
0500	20430ED		SAW CUT	110.00	LF		\$	
0510	22680EN		QWICK CURB MEDIAN SEPARATOR	202.00	LF		\$	
0520	23158ES505		DETECTABLE WARNINGS	48.00	SQFT		\$	
0530	23170ND		REMOVE & RESET LIGHT STANDARD	2.00	EACH		\$	
0540	23274EN11F		TURF REINFORCEMENT MAT 1	20.00	SQYD		\$	
0550	23556NC		ADJUST LIGHTING JUNCTION BOX	2.00	EACH		\$	
0560	23745EC		YIELD LINES	6.00	EACH		\$	
0570	23763EC		ADJUST LIGHT POLE BASE	4.00	EACH		\$	
0580	24631EC		BARCODE SIGN INVENTORY	43.00	EACH		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0590	00522		STORM SEWER PIPE-18 IN	11.00	LF		\$	
0600	00551		STORM SEWER PIPE-15 IN EQUIV	11.00	LF		\$	
0610	01202		PIPE CULVERT HEADWALL-15 IN	1.00	EACH		\$	
0620	01204		PIPE CULVERT HEADWALL-18 IN	1.00	EACH		\$	
0630	01440		SLOPED BOX INLET-OUTLET TYPE 1	1.00	EACH		\$	
0640	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	36.00	SQYD	\$2.00	\$	\$72.00
0650	08100		CONCRETE-CLASS A	6.00	CUYD		\$	
0660	08150		STEEL REINFORCEMENT	710.00	LB		\$	
0670	21546ED		CURB BOX INLET TYPE B MODIFIED	2.00	EACH		\$	

Section: 0004 - BRIDGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0680	02231		STRUCTURE GRANULAR BACKFILL	137.00	CUYD		\$	
0690	02403		REMOVE CONCRETE MASONRY	180.20	CUYD		\$	
0700	03299		ARMORED EDGE FOR CONCRETE	46.70	LF		\$	
0710	08003		FOUNDATION PREPARATION	1.00	LS		\$	
0720	08020		CRUSHED AGGREGATE SLOPE PROT	589.00	TON		\$	
0730	08033		TEST PILES	192.00	LF		\$	
0740	08039		PRE-DRILLING FOR PILES	840.00	LF		\$	
0750	08051		PILES-STEEL HP14X89	648.00	LF		\$	
0760	08100		CONCRETE-CLASS A	281.50	CUYD		\$	
0770	08104		CONCRETE-CLASS AA	288.50	CUYD		\$	
0780	08150		STEEL REINFORCEMENT	46,750.00	LB		\$	
0790	08151		STEEL REINFORCEMENT-EPOXY COATED	116,372.00	LB		\$	

BOONE COUNTY
 CM 8124 (023)
 211311

PROPOSAL BID ITEMS

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Report Date 3/8/21

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0800	08256		HANDRAIL-METAL	658.00	LF		\$	
0810	08471		EXPANSION DAM-2.5 IN NEOPRENE	47.00	LF		\$	
0820	20745ED		ROCK SOUNDINGS	136.00	LF		\$	
0830	20746ED		ROCK CORINGS	102.00	LF		\$	
0840	21420ED		DRILLED SHAFT-66 IN (COMMON)	100.00	LF		\$	
0850	21421ED		DRILLED SHAFT-60 IN (SOLID ROCK)	60.00	LF		\$	
0860	23378EC		CONCRETE SEALING	19,609.00	SQFT		\$	
0870	23963EC		PPC I-BEAM TYPE HN 36-49	976.90	LF		\$	
0880	25027ED		RAIL SYSTEM SINGLE SLOPE - 36 IN	658.00	LF		\$	

Section: 0005 - SIGNALIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0890	04845		CABLE-NO. 14/7C (REVISED: 3-8-21)	600.00	LF		\$	
0900	20093NS835		INSTALL PEDESTRIAN HEAD-LED	2.00	EACH		\$	
0910	21743NN		INSTALL PEDESTRIAN DETECTOR	2.00	EACH		\$	
0920	26119EC		INSTALL RADAR PRESENCE DETECTOR TYPE A	1.00	EACH		\$	

Section: 0006 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0930	04701		POLE 40 FT MTG HT	6.00	EACH		\$	
0940	04722		BRACKET 8 FT	2.00	EACH		\$	
0950	04724		BRACKET 12 FT	4.00	EACH		\$	
0960	04740		POLE BASE	6.00	EACH		\$	
0970	04750		TRANSFORMER BASE	6.00	EACH		\$	
0980	04780		FUSED CONNECTOR KIT	27.00	EACH		\$	
0990	04795		CONDUIT-2 IN	670.00	LF		\$	
1000	04820		TRENCHING AND BACKFILLING	1,070.00	LF		\$	
1010	04832		WIRE-NO. 12	1,026.00	LF		\$	
1020	04833		WIRE-NO. 8	3,840.00	LF		\$	
1030	04834		WIRE-NO. 6	1,800.00	LF		\$	
1040	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	8.00	EACH		\$	
1045	04940		REMOVE LIGHTING (ADDED: 3-8-21)	1.00	LS		\$	
1050	21543EN		BORE AND JACK CONDUIT	550.00	LF		\$	
1060	24589ED		LED LUMINAIRE	6.00	EACH		\$	
1070	24900EC		PVC CONDUIT-1 1/4 IN-SCHEDULE 80	935.00	LF		\$	

Section: 0007 - DEMOBILIZATION &/OR MOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1080	02568		MOBILIZATION	1.00	LS		\$	
1090	02569		DEMOBILIZATION	1.00	LS		\$	

PILE RECORD FOR POINT BEARING PILES					
Pile No.	Pile Cut-off Elevation FEET	Pile Length In Place FEET	Point of Pile Elevation As Driven FEET	Design Axial Load TONS	
INTEGRAL END BENT #1 LEFT					
1	875.786			64	
2	875.786			64	
3	875.786			64	
4	875.786			64	
INTEGRAL END BENT #1 RIGHT					
5	876.248			62	
6	876.248			62	
7	876.248			62	
8	876.248			62	
9	876.248			62	
INTEGRAL END BENT #2 LEFT					
10	877.341			66	
11	877.341			66	
12	877.341			66	
13	877.341			66	
INTEGRAL END BENT #2 RIGHT					
14	877.884			61	
15	877.884			61	
16	877.884			61	
17	877.884			61	
18	877.884			61	

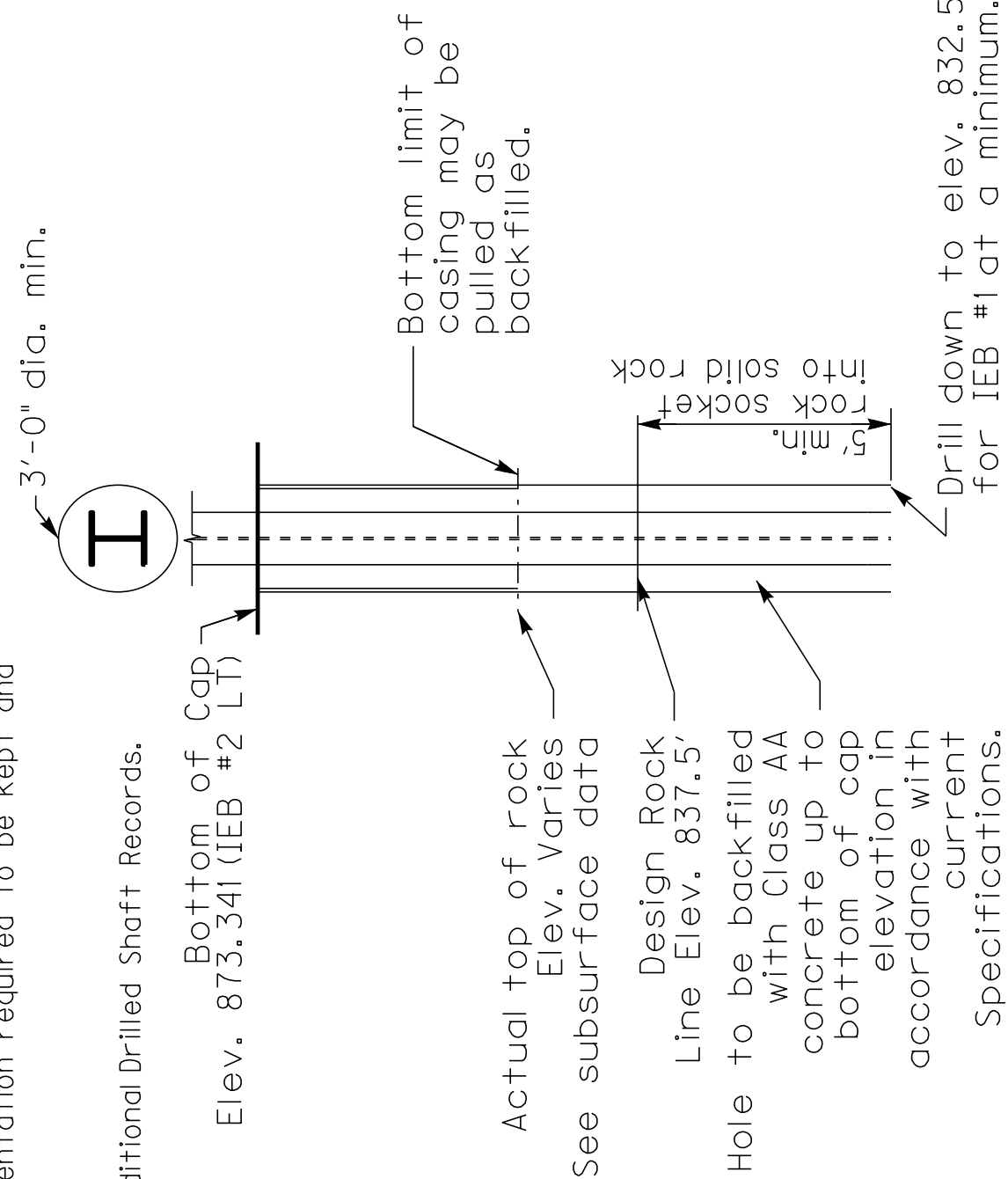
ES

Drilled Shaft Record										
Drilled Shaft No.	Top of Drilled Shaft Common Elevation (Design)	Top of Drilled Shaft Common Elevation (Actual)	Top of Drilled Shaft Solid Rock Elevation (Design)	Top of Drilled Shaft Solid Rock Elevation (Actual)	Bottom of 54" Steel Casing Elevation (Design)	Bottom of 54" Steel Casing Elevation (Actual)	Bottom of Drilled Shaft Solid Rock Elevation (Design)	Bottom of Drilled Shaft Solid Rock Elevation (Actual)	Total Length of Drilled Shaft Common	Total Length of Drilled Shaft Solid Rock
	P1LT	850.948		832.365		Pier #1		822.365		
P1RT	850.877		332.294		832.294		822.294			
P2LT	849.455		834.455		Pier #2		824.455			
P2RT	850.050		834.383		834.383		824.383			
P3LT	855.950		840.450		Pier #3		830.450			
P3RT	856.795		840.462		840.462		830.462			

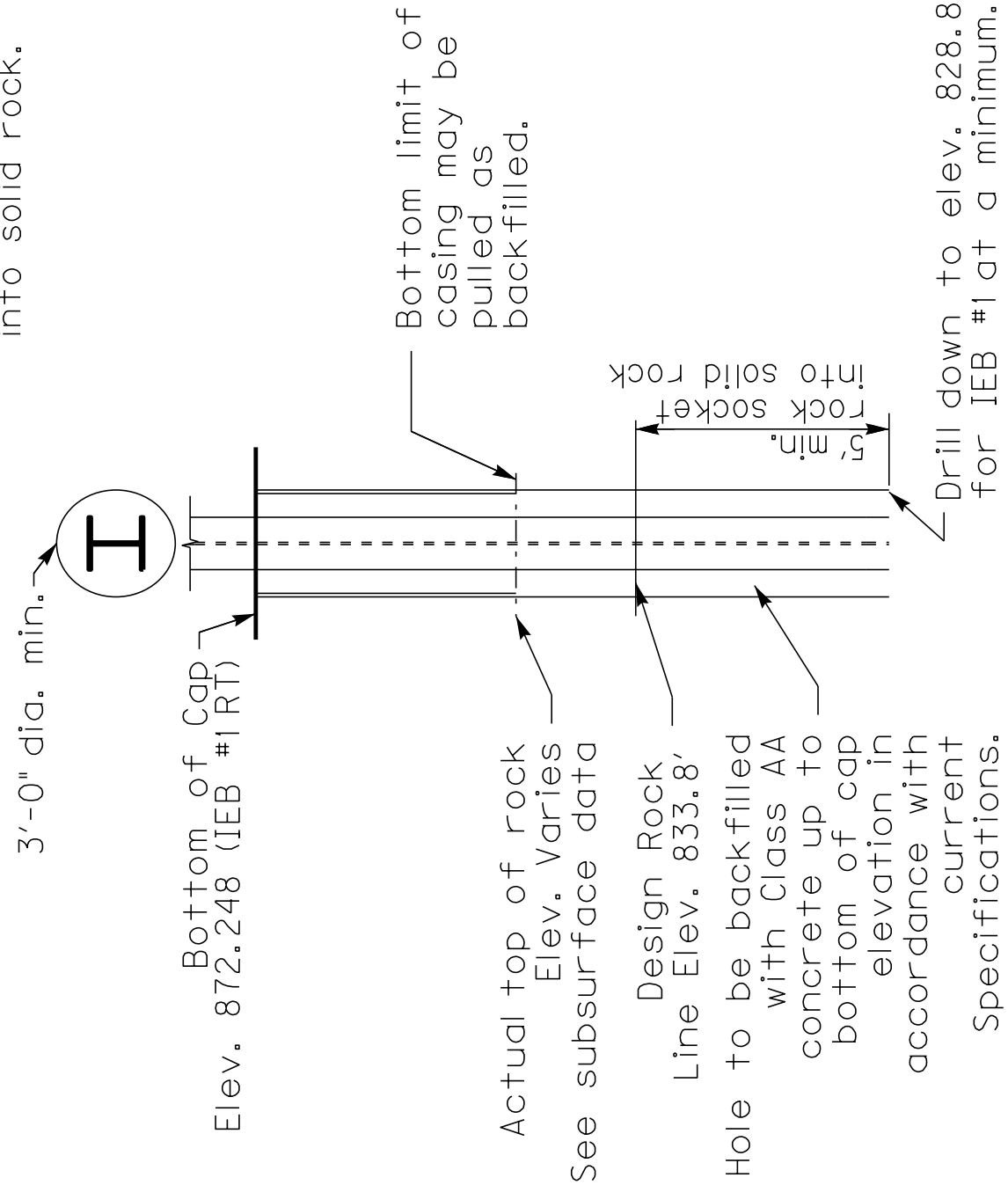
NOTE: After completing the drilling operation, the Resident Engineer shall record for each drilled shaft the bottom of hole elevation and the top of rock elevation. After tabulating the length of drilled shaft, common and solid rock, he shall return one blue print copy of this sheet to the director of the Division of Bridge Design so that the data may be recorded on the original plans.

This Drilled Shaft Record does not replace documentation required to be kept and submitted by the Resident Engineer.

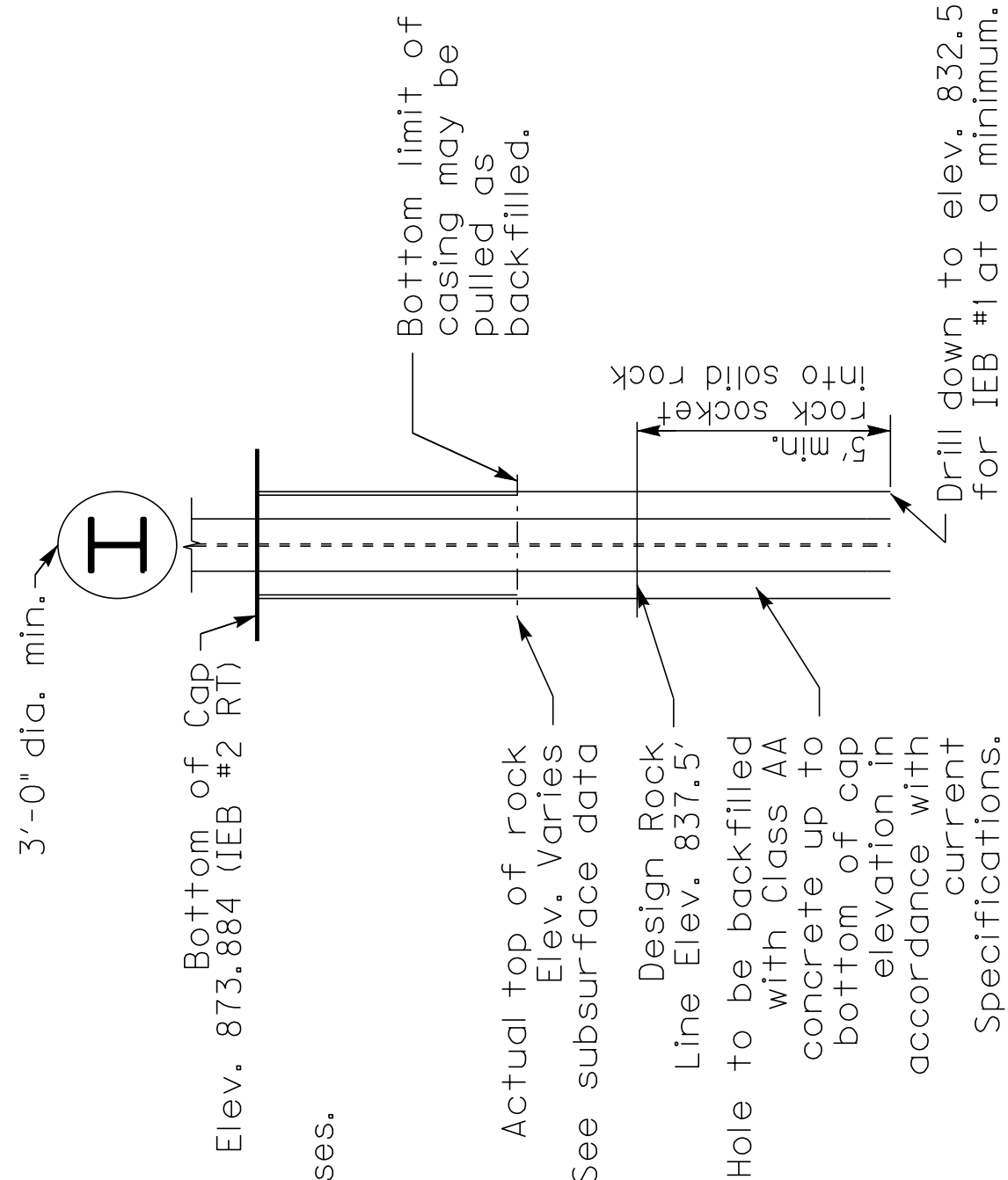
NOTE: See Special Notes for Drilled Shafts for additional Drilled Shaft Records.



Note: The solid unweathered rock elevation was assumed to be at Elev. 837.5' at EB #2 for design purposes. Estimated pile tip is 832.5' but may be adjusted based on rock elevation. Maintain 5'-0" min. embedment into solid rock.



Note: The solid unweathered rock elevation was assumed to be at Elev. 833.8' at EB #1 for design purposes. Estimated pile tip is 828.8' but may be adjusted based on rock elevation. Maintain 5'-0" min. embedment into solid rock.



Note: The solid unweathered rock elevation was assumed to be at Elev. 837.5' at EB #2 for design purposes. Estimated pile tip is 832.5' but may be adjusted based on rock elevation. Maintain 5'-0" min. embedment into solid rock.

[illegible]

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T001

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 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.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : " PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09: 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 716 AND 834

SUBSECTION: 834.14.02 TRANSFORMER BASES.
REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.
REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS. WITH UV WHITE POLYCARBINATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
6	EACH	4701	POLE 40' MTG HT
2	EACH	4722	BRACKET 8'
4	EACH	4724	BRACKET 12'
6	EACH	4740	POLE BASE
6	EACH	4750	TRANSFORMER BASE
27	EACH	4780	FUSED CONNECTOR KIT
670	LIN FT	4795	CONDUIT 2 INCH
1,070	LIN FT	4820	TRENCHING AND BACKFILLING
1,026	LIN FT	4832	WIRE-NO. 12
3,840	LIN FT	4833	WIRE-NO. 8
1,800	LIN FT	4834	WIRE-NO. 6
8	EACH	20391NS835	ELECTRICAL JUNCTION BOX TYPE A
550	LIN FT	21543EN	BORE AND JACK CONDUIT
6	EACH	24589ED	LED LUMINAIRE
935	LIN FT	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
1	LP SUM	4940	REMOVE LIGHTING

7-9-2020

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T001

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, AND OTHER SPECIAL NOTES AND SPECIFICATIONS WILL APPLY ON THIS PROJECT. SEE SECTION 716 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.

ADD SENTENCE TO SECTION 834.06: ALL WIRE SHALL HAVE WORDING ADDED TO THE OUTER JACKET THAT STATES : " PROPERTY OF KENTUCKY TRANSPORTATION CABINET 502 564 0501".

ADD SENTENCE TO SECTION 834.09: 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 716 AND 834

SUBSECTION: 834.14.02 TRANSFORMER BASES.
REMOVE SENTENCE: CONSTRUCT THE DOOR OF A HIGH DENSITY POLYETHYLENE MATERIAL IN COLOR THAT MATCHES THE BASE.

REVISION: REPLACE THE FOLLOWING SENTENCE WITH THE FOLLOWING:
CONSTRUCT THE DOOR OF AN ALUMINUM MATERIAL IN A COLOR THAT MATCHES THE BASE. THE DOOR SHOULD HAVE A THEFT DETERRENT DEVICE THAT IS EQUAL TO THE LOCKDOWN LIGHTLOCK DOOR ASSEMBLY. THE DOOR LOCK WILL HAVE A LOCKING DEVICE WITH A KYTC CUSTOM KEY THAT WILL BE SEND TO CENTRAL OFFICE TRAFFIC OPERATIONS FROM THE MANUFACTURER AND BE ISSUED TO THE CONTRACTOR FOR THE INSTALLATION OF THE FINAL DOOR DEVICE. THE KEY FOR THE DOOR SHALL BE RETURNED TO CENTRAL OFFICE TRAFFIC OPERATIONS AFTER THE CLOSURE OF THE CONTRACT. THERE SHALL BE A 4" BY 6" ARC FLASH WARNING STICKER INSTALLED CENTER TOP OF EACH DOOR. THE STICKER SHALL BE METALCRAFT PLY695 PREM STYLEMARK LABEL WITH .007 THICKNESS. WITH UV WHITE POLYCARBINATE MATERIAL, AND WITH MC53FL PRESSURE SENSITIVE ADHESIVE. THE STICKER SHALL HAVE TWO COLORS OF BLACK AND CUSTOM COLOR ORANGE. THE WORDING FOR THE ARC FLASH STICKER SHALL BE THE FOLLOWING: "WARNING ARC FLASH HAZARD. APPROPRIATE PPE REQUIRED. FAILURE TO COMPLY CAN RESULT IN DEATH OR INJURY. REFER TO NFPA 70E."

ROADWAY LIGHTING ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
6	EACH	4701	POLE 40' MTG HT
2	EACH	4722	BRACKET 8'
4	EACH	4724	BRACKET 12'
6	EACH	4740	POLE BASE
6	EACH	4750	TRANSFORMER BASE
27	EACH	4780	FUSED CONNECTOR KIT
670	LIN FT	4795	CONDUIT 2 INCH
1,070	LIN FT	4820	TRENCHING AND BACKFILLING
1,026	LIN FT	4832	WIRE-NO. 12
3,840	LIN FT	4833	WIRE-NO. 8
1,800	LIN FT	4834	WIRE-NO. 6
8	EACH	20391NS835	ELECTRICAL JUNCTION BOX TYPE A
550	LIN FT	21543EN	BORE AND JACK CONDUIT
6	EACH	24589ED	LED LUMINAIRE
935	LIN FT	24900EC	PVC CONDUIT - 1 1/4 INCH - SCHEDULE 80
1	LP SUM	4940	REMOVE LIGHTING

ADDED

7-9-2020

TRAFFIC SIGNAL ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
600	LIN FT	4845	CABLE-NO. 14/7C
2	EACH	20093N5835	INSTALL PEDESTRIAN HEAD LED
2	EACH	21743NN	INSTALL PEDESTRIAN DETECTOR
1	EACH	26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A

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.

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 (502-782-5540/502-782-5536) 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.

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".

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T001

SUBSECTION: 03.13 LOOP INSTALLATION.
REVISION: REPLACE FIRST SENTENCE NOTE WITH THE FOLLOWING:TWIST UNSHIELDED LOOP WIRE (MSA 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 (MSA 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 .5" to .625" 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. THE DEPARTMENT WILL MEASURE THE QUANTITY BYEACH. THE DEPARTMENT WILL NOT MEASURE BACKFILLING AND THE DISPOSAL 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.

INSTALL RADAR PRESENCE DETECTION 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 THE 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 THE DISTRICT TRAFFIC DIVISION'S REPRESENTATIVE 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 THE 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

TRAFFIC SIGNAL SIGNAL ESTIMATE OF QUANTITIES

TOTAL	UNITS	CODE	ITEM DESCRIPTION
600	LIN FT	4845	CABLE-NO. 14/7C
2	EACH	20699N583S	INSTALL PEDESTRIAN HEAD LED
2	EACH	21743NN	INSTALL PEDESTRIAN DETECTOR
1	EACH	26119EC	INSTALL RADAR PRESENCE DETECTOR TYPE A

CHANGE CODE FROM 4844 TO 4845 AND CHANGE CABLE FROM 5C TO 7C

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.

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 (502-782-5540/502-782-5536) 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.

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COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T001

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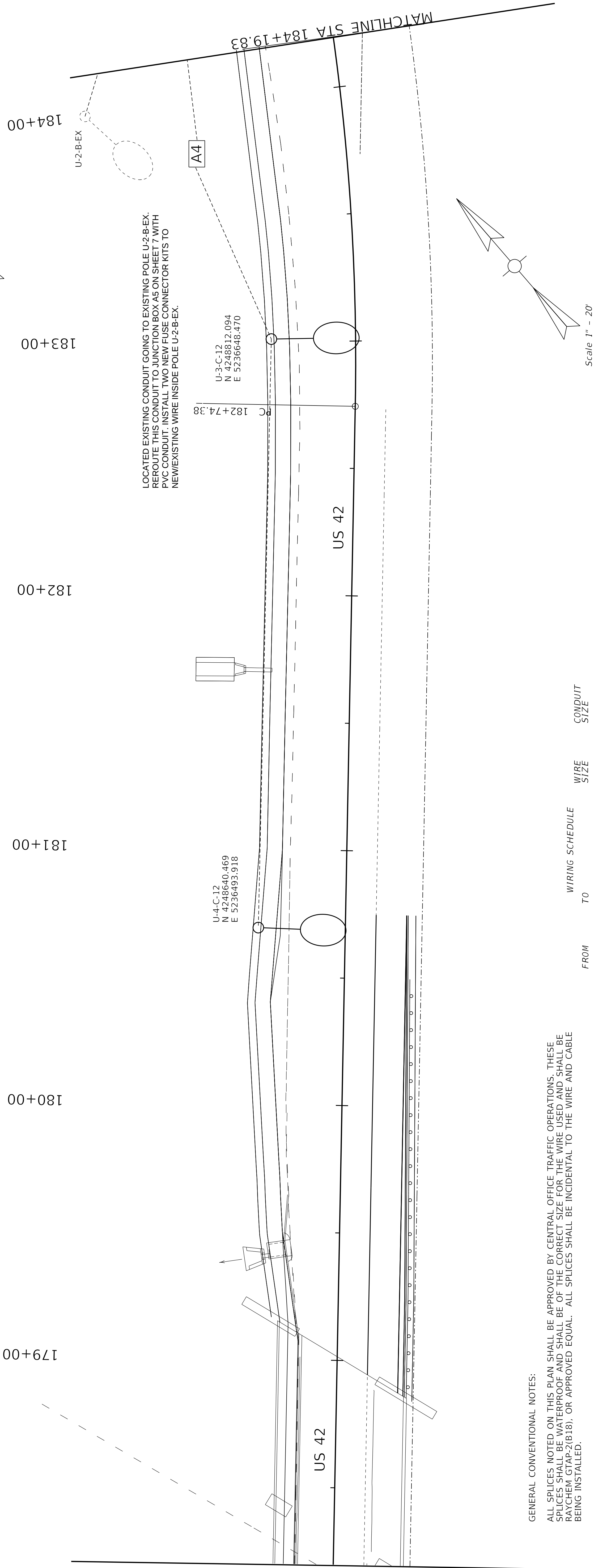
COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T006

CONVENTIONAL LIGHTING:

ALL POLES SHALL HAVE A #12 AWG GREEN GROUND WIRE RUN FROM BOTTOM OF POLE TO THE LUMINAIRE FOR GROUNDING . ALL POLES SHALL HAVE A GREEN WIRE THE SAME SIZE AS THE CIRCUIT WIRE RUN FROM POLE TO POLE FOR GROUNDING. GROUNDING WIRES SHALL BE CONNECTED TO GROUNDING LUGS ON CONDUITS OR ON THE POLE/TRANSFORMER BASE.

POLE HEIGHTS, ARM LENGTHS AND SETBACKS ARE DENOTED AS STATED ON "LUMINAIRE DESIGNATION EXAMPLE" ON LUMINAIRE/FUSE CONNECTOR DETAIL SHEET.

POLES SHALL BE PLACED AS CLOSE TO STATIONS AS STATED ON PLANS TO PROVIDE PROPER ILLUMINATION. IF ANY POLE NEEDS TO BE MOVED FROM THE STATION INDICATED, C.O. TRAFFIC SHALL BE CONTACTED AT 502-564-3020.



GENERAL CONVENTIONAL NOTES:

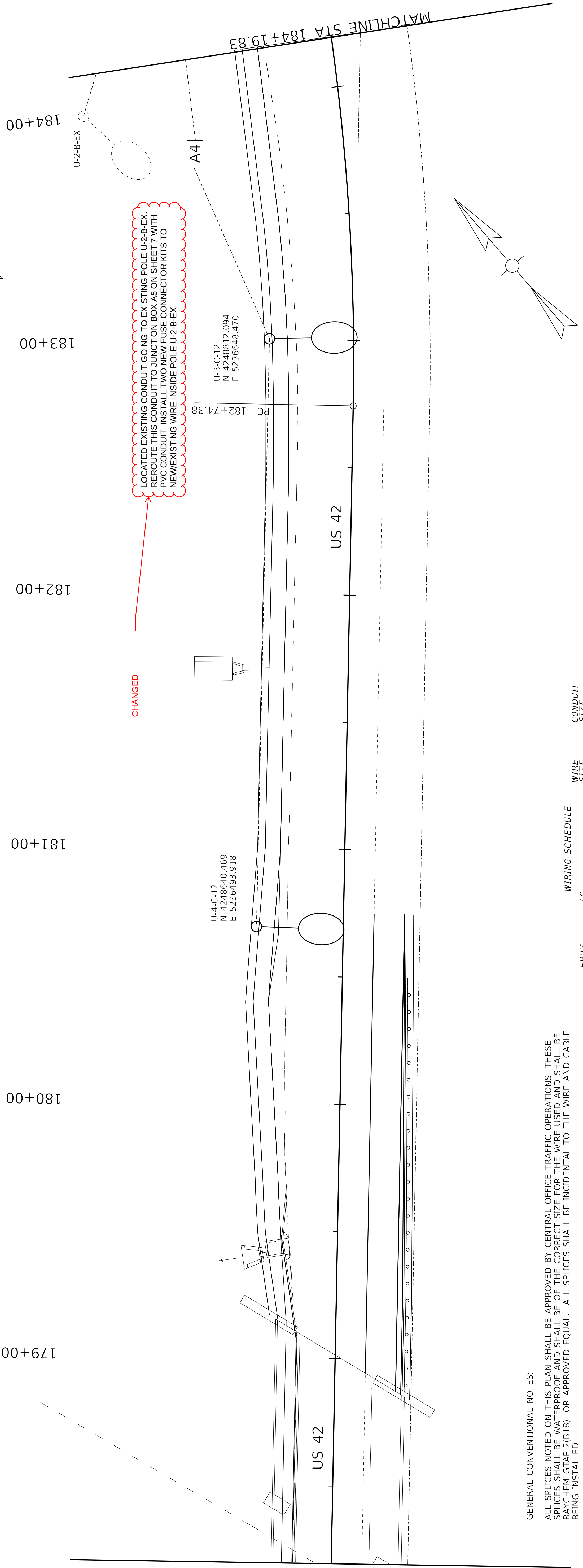
ALL SPLICES NOTED ON THIS PLAN SHALL BE APPROVED BY CENTRAL OFFICE TRAFFIC OPERATIONS. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE OF THE CORRECT SIZE FOR THE WIRE USED AND SHALL BE RAYCHEM GTAP-2(B18), OR APPROVED EQUAL. ALL SPLICES SHALL BE INCIDENTAL TO THE WIRE AND CABLE BEING INSTALLED.

CKT #U ***	JBA7 #	JBA6	2-#8 AWG	2" RS
	JBA6	U-1-C-8 ##	2-#8 AWG	1 1/4" PVC
	U-1-C-8 ##	U-2-B-EX (THROUGH JBA5)	3-#8 AWG	2" PVC
	U-1-C-8 ##	JBA5	3-#8 AWG	2" PVC +
	JBA5	JBA4	3-#8 AWG	2" RS
	JBA4	U-3-C-12	3-#8 AWG	1 1/4" PVC
	U-3-C-12	U-4-C-12	3-#8 AWG	1 1/4" PVC

- * USE PROPOSE 2" RS TO DO DOUBLE BACK TO JUNCTION BOX A1.
- ** SPLICE EXISTING WIRES TO NEW WIRES FOR CIRCUITS 1 & 3.
- *** VERIFY BY THE CONTRACTOR. THIS VERIFICATION WILL BE INCIDENTAL TO THE PROJECT.
- # SPLICE EXISTING WIRES TO NEW WIRES FOR UNKNOWN CIRCUIT.
- ## USE FUSE CONNECTOR KITS TO DO A THREE WAY SPLICE FOR UNKNOWN CIRCUIT INSIDE POLE. THERE WILL STILL BE A FUSE CONNECTOR KITS FOR POLE U-1-C-8.
- + USE PROPOSE 2" PVC THAT IS GOING TO JBA5.

LEGEND	
	JUNCTION BOXES - TYPES A & C (AS DESIGNATED)
	1 1/4" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
	LUMINAIRE POLE
	EX. LUMINAIRE

CONVENTIONAL LIGHTING:
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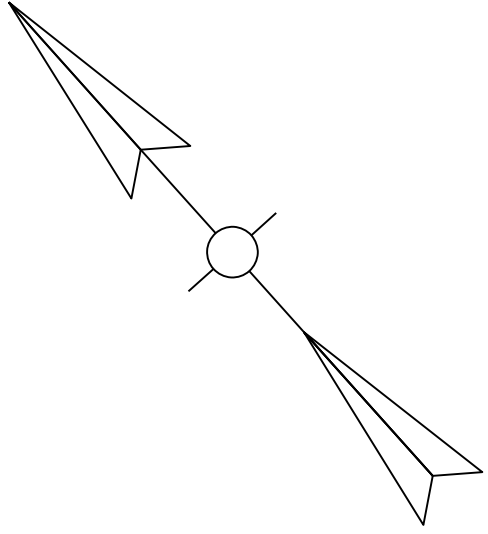
CKT #U ***	FROM		TO		WIRING SCHEDULE		WIRE SIZE		CONDUIT SIZE	
	JBA7 #	JBA6								
	JBA6	U-1-C-8 ##					2-#8 AWG		2" RS	
							2-#8 AWG		1 1/4" PVC	
		U-2-B-EX (THROUGH JBA5)					3-#8 AWG		2" PVC	
		U-1-C-8 ##					3-#8 AWG		2" PVC +	
	JBA5	JBA4					3-#8 AWG		2" RS	
	JBA4	U-3-C-12					3-#8 AWG		1 1/4" PVC	
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LEGEND	
	JUNCTION BOXES - TYPES A & C (AS DESIGNATED)
	1 1/4" SCHEDULE 80 PVC CONDUIT (UNLESS OTHERWISE NOTED)
	LUMINAIRE POLE
	EX. LUMINAIRE

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T006

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T006

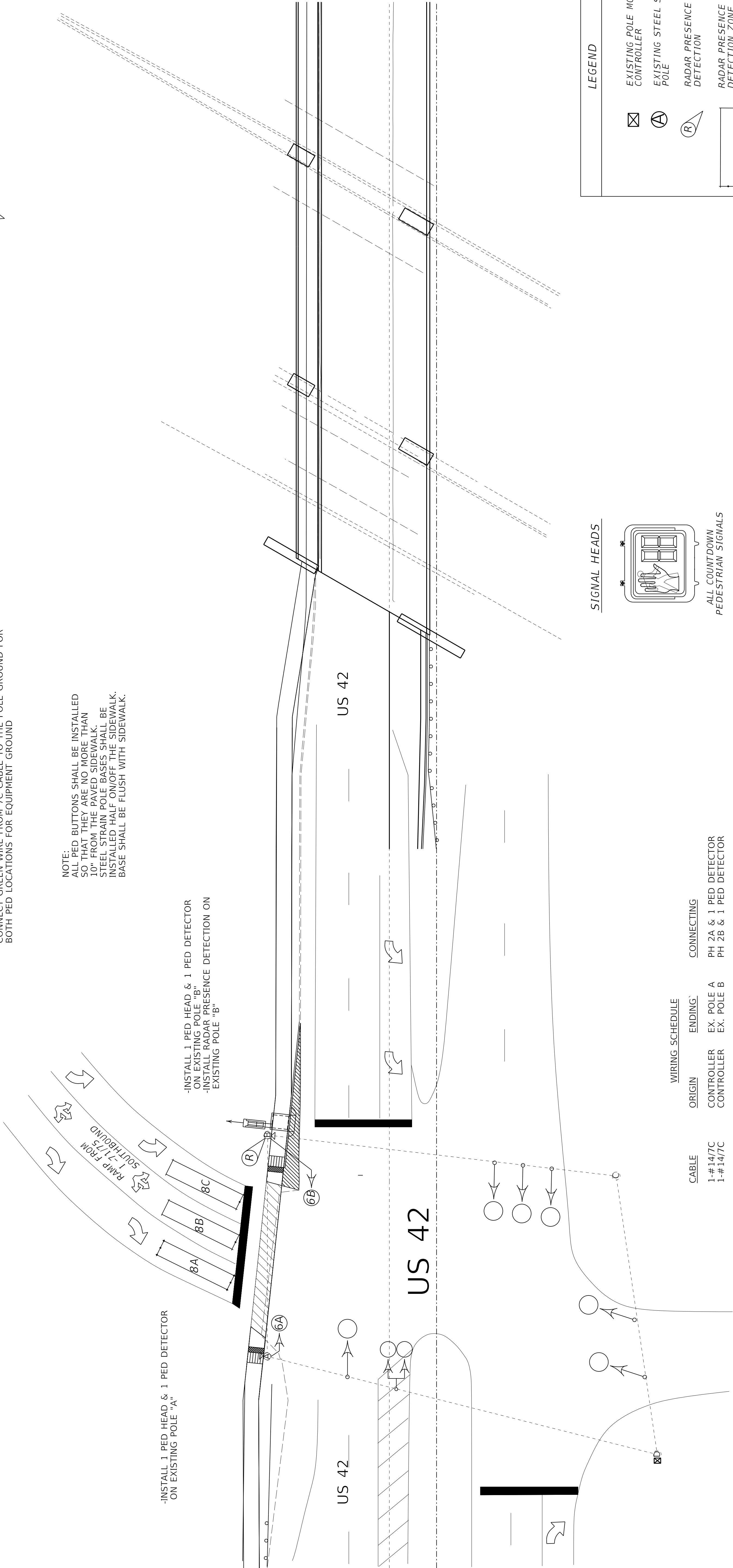


NOTE:
CONNECT GREEN WIRE FROM 7C CABLE TO THE POLE GROUND FOR BOTH PED LOCATIONS FOR EQUIPMENT GROUND

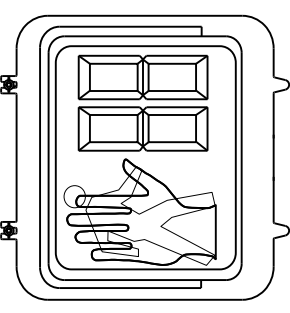
NOTE:
ALL PED BUTTONS SHALL BE INSTALLED SO THAT THEY ARE NO MORE THAN 10" FROM THE PAVED SIDEWALK. STEEL STRAIN POLE BASES SHALL BE INSTALLED HALF ON/OFF THE SIDEWALK. BASE SHALL BE FLUSH WITH SIDEWALK.

-INSTALL 1 PED HEAD & 1 PED DETECTOR ON EXISTING POLE "A"

-INSTALL 1 PED HEAD & 1 PED DETECTOR ON EXISTING POLE "B"
-INSTALL RADAR PRESENCE DETECTION ON EXISTING POLE "B"



SIGNAL HEADS



ALL COUNTDOWN PEDESTRIAN SIGNALS
ALL INDICATIONS L.E.D.

WIRING SCHEDULE

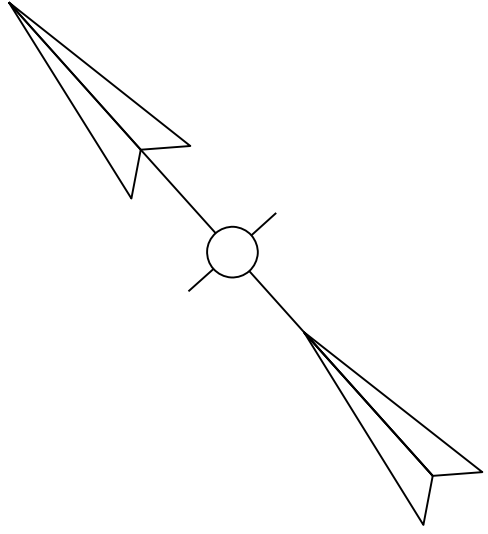
CABLE	ORIGIN	ENDING	CONNECTING
1-# 14/7C	CONTROLLER	EX. POLE A	PH 2A & 1 PED DETECTOR
1-# 14/7C	CONTROLLER	EX. POLE B	PH 2B & 1 PED DETECTOR

LEGEND	
	EXISTING POLE MOUNTED CONTROLLER
	EXISTING STEEL STRAIN POLE
	RADAR PRESENCE DETECTION
	RADAR PRESENCE DETECTION ZONE
	PEDESTRIAN DETECTOR
	EXISTING SIGNAL HEAD
	PEDESTRIAN HEAD

SIGNAL PLAN
US 42 @ I-75 RAMP

SCALE: 20'

COUNTY OF	ITEM NO.	SHEET NO.
BOONE	6-80003.00	T006



CHANGE FROM 5C TO 7C

NOTE:
CONNECT GREEN WIRE FROM 7C CABLE TO THE POLE GROUND FOR BOTH PED LOCATIONS FOR EQUIPMENT GROUND

NOTE:
ALL PED BUTTONS SHALL BE INSTALLED SO THAT THEY ARE NO MORE THAN 10" FROM THE PAVED SIDEWALK. STEEL STRAIN POLE BASES SHALL BE INSTALLED HALF ON/OFF THE SIDEWALK. BASE SHALL BE FLUSH WITH SIDEWALK.

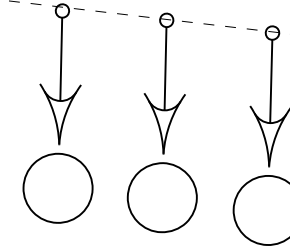
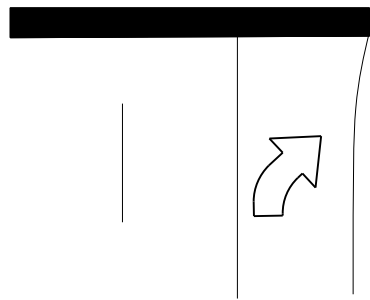
-INSTALL 1 PED HEAD & 1 PED DETECTOR ON EXISTING POLE "A"

-INSTALL 1 PED HEAD & 1 PED DETECTOR ON EXISTING POLE "B"
-INSTALL RADAR PRESENCE DETECTION ON EXISTING POLE "B"

US 42

US 42

US 42

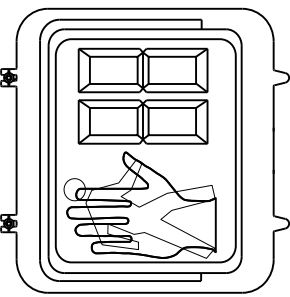


USER: grant.derossett

DATE PLOTTED:

FILE NAME: C:\PWORK\GRANT.DEROSSETT\TD183742\US 42 LIGHTING PLANS.DGN

SIGNAL HEADS



ALL COUNTDOWN
PEDESTRIAN SIGNALS
ALL INDICATIONS L.E.D.

WIRING SCHEDULE

ORIGIN	ENDING	CONNECTING
CONTROLLER	EX. POLE A	PH 2A & 1 PED DETECTOR
CONTROLLER	EX. POLE B	PH 2B & 1 PED DETECTOR

CABLE
1-# 14/7C
1-# 14/7C

CHANGE FROM 5C TO 7C

LEGEND

	EXISTING POLE MOUNTED CONTROLLER
	EXISTING STEEL STRAIN POLE
	RADAR PRESENCE DETECTION
	RADAR PRESENCE DETECTION ZONE
	PEDESTRIAN DETECTOR
	EXISTING SIGNAL HEAD
	PEDESTRIAN HEAD

SIGNAL PLAN
US 42 @ I-75 RAMP

SCALE: 20'

OpenRoads Designer v10.13.7.1