



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

Andy Beshear
GOVERNOR

Jim Gray
SECRETARY

October 21, 2020

CALL NO. 100
CONTRACT ID NO. 201314
ADDENDUM # 1

Subject: CALLOWAY COUNTY, NHPP 6411 (039)
Letting October 23, 2020

- (1) Revised - Proposal Bid Items - Pages 133-139 of 139
- (2) Revised - Plan Sheets - S1, S2, and S31

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

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

Sincerely,

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

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

RM:mr
Enclosures

PROPOSAL BID ITEMS

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Section: 0001 - PAVING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0010	00001		DGA BASE	1,422.00	TON		\$	
0020	00003		CRUSHED STONE BASE	174,436.00	TON		\$	
0030	00008		CEMENT STABILIZED ROADBED	353,524.00	SQYD		\$	
0040	00018		DRAINAGE BLANKET-TYPE II-ASPH	262.00	TON		\$	
0050	00020		TRAFFIC BOUND BASE	419.00	TON		\$	
0060	00100		ASPHALT SEAL AGGREGATE	1,919.00	TON		\$	
0070	00103		ASPHALT SEAL COAT	230.00	TON		\$	
0080	00212		CL2 ASPH BASE 1.00D PG64-22	13,047.00	TON		\$	
0090	00214		CL3 ASPH BASE 1.00D PG64-22	111,305.00	TON		\$	
0100	00301		CL2 ASPH SURF 0.38D PG64-22	1,621.00	TON		\$	
0110	00309		CL2 ASPH SURF 0.50D PG64-22	4,584.00	TON		\$	
0120	00324		CL3 ASPH SURF 0.50B PG64-22	18,229.00	TON		\$	
0130	00356		ASPHALT MATERIAL FOR TACK	315.00	TON		\$	
0140	00358		ASPHALT CURING SEAL	708.00	TON		\$	
0150	02542		CEMENT	10,309.00	TON		\$	
0160	02702		SAND FOR BLOTTER	886.00	TON		\$	

Section: 0002 - ROADWAY

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0170	00078		CRUSHED AGGREGATE SIZE NO 2	51,105.00	TON		\$	
0180	01000		PERFORATED PIPE-4 IN	1,596.00	LF		\$	
0190	01010		NON-PERFORATED PIPE-4 IN	304.00	LF		\$	
0200	01032		PERF PIPE HEADWALL TY 4-4 IN	38.00	EACH		\$	
0210	01691		FLUME INLET TYPE 2	4.00	EACH		\$	
0220	01917		STANDARD BARRIER MEDIAN TYPE 2	2,193.00	SQYD		\$	
0230	01982		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL WHITE	128.00	EACH		\$	
0240	01983		DELINEATOR FOR GUARDRAIL MONO DIRECTIONAL YELLOW	37.00	EACH		\$	
0250	02014		BARRICADE-TYPE III	40.00	EACH		\$	
0260	02091		REMOVE PAVEMENT	1,951.00	SQYD		\$	
0270	02159		TEMP DITCH	20,977.00	LF		\$	
0280	02160		CLEAN TEMP DITCH	10,488.00	LF		\$	
0290	02230		EMBANKMENT IN PLACE	729,133.00	CUYD		\$	
0300	02242		WATER	4,023.00	MGAL		\$	
0310	02262		FENCE-WOVEN WIRE TYPE 1	60,336.00	LF		\$	
0320	02351		GUARDRAIL-STEEL W BEAM-S FACE	11,893.75	LF		\$	
0330	02352		GUARDRAIL-STEEL W BEAM-D FACE	600.00	LF		\$	
0340	02360		GUARDRAIL TERMINAL SECTION NO 1	10.00	EACH		\$	
0350	02365		CRASH CUSHION TYPE IX-A	6.00	EACH		\$	
0360	02367		GUARDRAIL END TREATMENT TYPE 1	5.00	EACH		\$	
0370	02369		GUARDRAIL END TREATMENT TYPE 2A	12.00	EACH		\$	
0380	02381		REMOVE GUARDRAIL	1,429.00	LF		\$	
0390	02391		GUARDRAIL END TREATMENT TYPE 4A	10.00	EACH		\$	
0400	02404		SEPTIC TANK TREATMENT	12.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0410	02429		RIGHT-OF-WAY MONUMENT TYPE 1	306.00	EACH		\$	
0420	02432		WITNESS POST	10.00	EACH		\$	
0430	02475		PLUG WATER WELL	12.00	EACH		\$	
0440	02483		CHANNEL LINING CLASS II	2,884.00	TON		\$	
0450	02484		CHANNEL LINING CLASS III	4,132.00	TON		\$	
0460	02545		CLEARING AND GRUBBING (ESTIMATED 242 ACRES)	1.00	LS		\$	
0470	02555		CONCRETE-CLASS B	131.37	CUYD		\$	
0480	02562		TEMPORARY SIGNS	1,500.00	SQFT		\$	
0490	02585		EDGE KEY	222.00	LF		\$	
0500	02603		FABRIC-GEOTEXTILE CLASS 2 WORKING PLATFORM	87,222.00	SQYD		\$	
0510	02607		FABRIC-GEOTEXTILE CLASS 2 FOR PIPE	44,413.00	SQYD	\$2.00	\$	\$88,826.00
0520	02650		MAINTAIN & CONTROL TRAFFIC	1.00	LS		\$	
0530	02651		DIVERSIONS (BY-PASS DETOURS) (BRANDON ROAD)	1.00	LS		\$	
0540	02651		DIVERSIONS (BY-PASS DETOURS) (MIDWAY ROAD)	1.00	LS		\$	
0550	02651		DIVERSIONS (BY-PASS DETOURS) (US641 NORTH END)	1.00	LS		\$	
0560	02671		PORTABLE CHANGEABLE MESSAGE SIGN	2.00	EACH		\$	
0570	02696		SHOULDER RUMBLE STRIPS	107,319.00	LF		\$	
0580	02701		TEMP SILT FENCE	20,977.00	LF		\$	
0590	02703		SILT TRAP TYPE A	246.00	EACH		\$	
0600	02704		SILT TRAP TYPE B	246.00	EACH		\$	
0610	02705		SILT TRAP TYPE C	246.00	EACH		\$	
0620	02706		CLEAN SILT TRAP TYPE A	246.00	EACH		\$	
0630	02707		CLEAN SILT TRAP TYPE B	246.00	EACH		\$	
0640	02708		CLEAN SILT TRAP TYPE C	246.00	EACH		\$	
0650	02726		STAKING	1.00	LS		\$	
0660	02731		REMOVE STRUCTURE	1.00	LS		\$	
0670	02775		ARROW PANEL	4.00	EACH		\$	
0680	05950		EROSION CONTROL BLANKET	103,491.00	SQYD		\$	
0690	05952		TEMP MULCH	786,915.00	SQYD		\$	
0700	05953		TEMP SEEDING AND PROTECTION	596,148.00	SQYD		\$	
0710	05963		INITIAL FERTILIZER	45.00	TON		\$	
0720	05964		MAINTENANCE FERTILIZER	27.00	TON		\$	
0730	05985		SEEDING AND PROTECTION	767,042.00	SQYD		\$	
0740	05990		SODDING	1,000.00	SQYD		\$	
0750	05992		AGRICULTURAL LIMESTONE	910.00	TON		\$	
0760	06510		PAVE STRIPING-TEMP PAINT-4 IN	21,207.00	LF		\$	
0770	06514		PAVE STRIPING-PERM PAINT-4 IN	19,353.00	LF		\$	
0780	06542		PAVE STRIPING-THERMO-6 IN W	102,575.00	LF		\$	
0790	06543		PAVE STRIPING-THERMO-6 IN Y	65,048.00	LF		\$	
0800	06546		PAVE STRIPING-THERMO-12 IN W	2,576.00	LF		\$	
0810	06567		PAVE MARKING-THERMO STOP BAR-12IN	320.00	LF		\$	
0820	06569		PAVE MARKING-THERMO CROSS-HATCH	344.00	SQFT		\$	
0830	06572		PAVE MARKING-DOTTED LANE EXTEN	106.00	LF		\$	
0840	06574		PAVE MARKING-THERMO CURV ARROW	138.00	EACH		\$	
0850	06575		PAVE MARKING-THERMO COMB ARROW	20.00	EACH		\$	
0860	06576		PAVE MARKING-THERMO ONLY	24.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
0870	08100		CONCRETE-CLASS A	723.00	CUYD		\$	
0880	10020NS		FUEL ADJUSTMENT	373,114.00	DOLL	\$1.00	\$	\$373,114.00
0890	10030NS		ASPHALT ADJUSTMENT	359,077.00	DOLL	\$1.00	\$	\$359,077.00
0900	21289ED		LONGITUDINAL EDGE KEY	262.00	LF		\$	
0910	23274EN11F		TURF REINFORCEMENT MAT 1	11,530.00	SQYD		\$	
0920	23607EC		PAVE MARK THERMO-LANE REDUCTION ARROW	3.00	EACH		\$	
0930	23649EC		DRAIN POND (LT. STA. 6133+00)	1.00	LS		\$	
0940	23649EC		DRAIN POND (RT. STA. 6140+30)	1.00	LS		\$	
0950	24425EC		REMOVE PIPE	1.00	LS		\$	
0960	24489EC		INLAID PAVEMENT MARKER	725.00	EACH		\$	
0970	24651ED		CONCRETE ISLAND	498.00	SQYD		\$	
0980	24805ED		OBJECT MARKER TYPE 4	2.00	EACH		\$	
0990	24889EC		PAVE MARKING-THERMO U-TURN	6.00	EACH		\$	
1000	24935EC		CONCRETE PAINT (YELLOW)	2,691.00	SQYD		\$	
1010	25078ED		THRIE BEAM GUARDRAIL TRANSITION TL-3	16.00	EACH		\$	
1020	26122ED		INSPECTION PIPE (TC ENERGY GAS LINE)	18.00	EACH		\$	
1030	30078		WELDED WIRE FABRIC	29,081.00	SQFT		\$	

Section: 0003 - DRAINAGE

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1040	00440		ENTRANCE PIPE-15 IN	788.00	LF		\$	
1050	00441		ENTRANCE PIPE-18 IN	287.00	LF		\$	
1060	00443		ENTRANCE PIPE-24 IN	162.00	LF		\$	
1070	00461		CULVERT PIPE-15 IN	3,826.00	LF		\$	
1080	00462		CULVERT PIPE-18 IN	449.00	LF		\$	
1090	00464		CULVERT PIPE-24 IN	919.00	LF		\$	
1100	00466		CULVERT PIPE-30 IN	789.00	LF		\$	
1110	00468		CULVERT PIPE-36 IN	607.00	LF		\$	
1120	00468		CULVERT PIPE-36 IN (RCP)	78.00	LF		\$	
1130	00469		CULVERT PIPE-42 IN	138.00	LF		\$	
1140	00470		CULVERT PIPE-48 IN	339.00	LF		\$	
1150	00471		CULVERT PIPE-54 IN	32.00	LF		\$	
1160	00471		CULVERT PIPE-54 IN (CMP)	286.00	LF		\$	
1170	00472		CULVERT PIPE-60 IN	177.00	LF		\$	
1180	00473		CULVERT PIPE-66 IN	320.00	LF		\$	
1190	00474		CULVERT PIPE-72 IN (RCP)	335.00	LF		\$	
1200	00499		CULVERT PIPE-48 IN EQUIV	54.00	LF		\$	
1210	00499		CULVERT PIPE-48 IN EQUIV (RCP)	68.00	LF		\$	
1220	00502		CULVERT PIPE-66 IN EQUIV (RCP)	170.00	LF		\$	
1230	00521		STORM SEWER PIPE-15 IN	561.00	LF		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1240	00522		STORM SEWER PIPE-18 IN	1,413.00	LF		\$	
1250	00524		STORM SEWER PIPE-24 IN	509.00	LF		\$	
1260	00526		STORM SEWER PIPE-30 IN	159.00	LF		\$	
1270	00554		STORM SEWER PIPE-24 IN EQUIV	149.00	LF		\$	
1280	01202		PIPE CULVERT HEADWALL-15 IN	46.00	EACH		\$	
1290	01204		PIPE CULVERT HEADWALL-18 IN	18.00	EACH		\$	
1300	01208		PIPE CULVERT HEADWALL-24 IN	5.00	EACH		\$	
1310	01210		PIPE CULVERT HEADWALL-30 IN	7.00	EACH		\$	
1320	01212		PIPE CULVERT HEADWALL-36 IN	4.00	EACH		\$	
1330	01216		PIPE CULVERT HEADWALL-48 IN	4.00	EACH		\$	
1340	01217		PIPE CULVERT HEADWALL-48 IN EQUIV	2.00	EACH		\$	
1350	01220		PIPE CULVERT HEADWALL-60 IN	2.00	EACH		\$	
1360	01222		PIPE CULVERT HEADWALL-66 IN	2.00	EACH		\$	
1370	01226		PIPE CULVERT HEADWALL-66 IN EQUIV	2.00	EACH		\$	
1380	01310		REMOVE PIPE	13.00	LF		\$	
1390	01434		SLOPED BOX OUTLET TYPE 1-24 IN	15.00	EACH		\$	
1400	01451		S & F BOX INLET-OUTLET-24 IN	2.00	EACH		\$	
1410	01452		S & F BOX INLET-OUTLET-30 IN	7.00	EACH		\$	
1420	01456		CURB BOX INLET TYPE A	10.00	EACH		\$	
1430	01487		CURB BOX INLET TYPE F	8.00	EACH		\$	
1440	01505		DROP BOX INLET TYPE 5B	54.00	EACH		\$	
1450	01508		DROP BOX INLET TYPE 5C	7.00	EACH		\$	
1460	01511		DROP BOX INLET TYPE 5D	6.00	EACH		\$	
1470	01585		REMOVE DROP BOX INLET	1.00	EACH		\$	
1480	01642		JUNCTION BOX-18 IN	1.00	EACH		\$	
1490	01645		JUNCTION BOX-36 IN	1.00	EACH		\$	
1500	01647		JUNCTION BOX-48 IN	1.00	EACH		\$	
1510	23049ES701		CULVERT PIPE-21 IN EQUIV	121.00	LF		\$	
1520	23131ER701		PIPELINE VIDEO INSPECTION	8,082.00	LF		\$	
1530	24025EC		PIPE CULVERT HEADWALL-72 IN	4.00	EACH		\$	
1540	24026EC		PIPE CULVERT HEADWALL-54 IN	4.00	EACH		\$	

Section: 0004 - BRIDGE - #28167 - BRUSHY CREEK BRIDGE - STA. 6171+15.57

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1550	02231		STRUCTURE GRANULAR BACKFILL	475.60	CUYD		\$	
1560	03299		ARMORED EDGE FOR CONCRETE	136.60	LF		\$	
1570	08003		FOUNDATION PREPARATION (#28167)	1.00	LS		\$	
1580	08019		CYCLOPEAN STONE RIP RAP	766.00	TON		\$	
1590	08033		TEST PILES	498.00	LF		\$	
1600	08051		PILES-STEEL HP14X89	3,498.00	LF		\$	
1610	08100		CONCRETE-CLASS A	739.00	CUYD		\$	
1620	08104		CONCRETE-CLASS AA	695.00	CUYD		\$	
1630	08150		STEEL REINFORCEMENT	50,580.00	LB		\$	
1640	08151		STEEL REINFORCEMENT-EPOXY COATED	222,047.00	LB		\$	
1650	08670		PRECAST PC BOX BEAM SB27	3,360.60	LF		\$	
1660	23233EC		DYNAMIC PILE TESTING	20.00	EACH		\$	
1670	23378EC		CONCRETE SEALING	37,710.00	SQFT		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1680	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	1,136.20	LF		\$	

Section: 0005 - BRIDGE - #28168 - TRIB TO CLARKS RIVER BRIDGE STA. 6436+00.00

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1690	02231		STRUCTURE GRANULAR BACKFILL	551.30	CUYD		\$	
1700	03299		ARMORED EDGE FOR CONCRETE	183.20	LF		\$	
1710	08003		FOUNDATION PREPARATION (#28168)	1.00	LS		\$	
1720	08019		CYCLOPEAN STONE RIP RAP	2,056.00	TON		\$	
1730	08033		TEST PILES	610.00	LF		\$	
1740	08051		PILES-STEEL HP14X89	6,262.00	LF		\$	
1750	08100		CONCRETE-CLASS A	584.90	CUYD		\$	
1760	08104		CONCRETE-CLASS AA	640.70	CUYD		\$	
1770	08150		STEEL REINFORCEMENT	67,170.00	LB		\$	
1780	08151		STEEL REINFORCEMENT-EPOXY COATED	197,425.00	LB		\$	
1790	08670		PRECAST PC BOX BEAM SB27	2,934.30	LF		\$	
1800	23233EC		DYNAMIC PILE TESTING	16.00	EACH		\$	
1810	23378EC		CONCRETE SEALING	35,417.00	SQFT		\$	
1820	23813EC		DECK DRAIN	11.00	EACH		\$	
1830	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	857.80	LF		\$	

Section: 0006 - BRIDGE - #25669 - US641 OVER MIDDLE FORK CLARKS RIVER STA. 104+

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1840	02231		STRUCTURE GRANULAR BACKFILL	268.00	CUYD		\$	
1845	02692		SETTLEMENT PLATFORM (ADDED: 10-21-20)	2.00	EACH		\$	
1850	03299		ARMORED EDGE FOR CONCRETE	102.50	LF		\$	
1852	03340		STEEL PIPE-2 1/2 IN (ADDED: 10-21-20)	21.00	LF		\$	
1855	03343		STEEL PIPE-4 IN (ADDED: 10-21-20)	18.60	LF		\$	
1860	08003		FOUNDATION PREPARATION (#25669)	1.00	LS		\$	
1870	08019		CYCLOPEAN STONE RIP RAP	1,639.00	TON		\$	
1880	08033		TEST PILES	120.00	LF		\$	
1890	08046		PILES-STEEL HP12X53	2,166.00	LF		\$	
1900	08100		CONCRETE-CLASS A	266.60	CUYD		\$	
1910	08104		CONCRETE-CLASS AA	387.10	CUYD		\$	
1920	08150		STEEL REINFORCEMENT	44,306.00	LB		\$	
1930	08151		STEEL REINFORCEMENT-EPOXY COATED	98,498.00	LB		\$	
1940	08500		APPROACH SLAB	234.00	SQYD		\$	
1950	08633		PRECAST PC I BEAM TYPE 3	1,376.00	LF		\$	
1960	23378EC		CONCRETE SEALING	16,387.00	SQFT		\$	
1970	25028ED		RAIL SYSTEM SINGLE SLOPE - 40 IN	468.00	LF		\$	

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Section: 0007 - BRIDGE - #28350 - 10'X4'X92.7' RCBC HAZEL CONNECTOR STA. 113+50

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
1980	08003		FOUNDATION PREPARATION (#28350)	1.00	LS		\$	
1990	08100		CONCRETE-CLASS A	122.90	CUYD		\$	
2000	08150		STEEL REINFORCEMENT	16,944.00	LB		\$	

Section: 0008 - BRIDGE - #28351 - 8'X4'X48.8' RCBC EW MILLER ROAD STA. 61+50

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2010	08003		FOUNDATION PREPARATION (#28351)	1.00	LS		\$	
2020	08100		CONCRETE-CLASS A	88.80	CUYD		\$	
2030	08150		STEEL REINFORCEMENT	7,811.00	LB		\$	

Section: 0009 - BRIDGE - #28352 - 8'X4'X54' RCBC 5TH STREET STA. 53+75

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2040	08003		FOUNDATION PREPARATION (#28352)	1.00	LS		\$	
2050	08100		CONCRETE-CLASS A	78.40	CUYD		\$	
2060	08150		STEEL REINFORCEMENT	7,812.00	LB		\$	

Section: 0010 - SIGNING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2070	06406		SBM ALUM SHEET SIGNS .080 IN PROJECT SIGNING	1,672.69	SQFT		\$	
2080	06407		SBM ALUM SHEET SIGNS .125 IN	1,843.25	SQFT		\$	
2090	06407		SBM ALUM SHEET SIGNS .125 IN HAZEL WAYFINDING SIGN	45.50	SQFT		\$	
2100	06410		STEEL POST TYPE 1	4,848.00	LF		\$	
2110	06410		STEEL POST TYPE 1 HAZEL WAYFINDING SIGN	64.00	LF		\$	
2120	06490		CLASS A CONCRETE FOR SIGNS	3.00	CUYD		\$	
2130	21596ND		GMSS TYPE D	12.00	EACH		\$	
2140	21596ND		GMSS TYPE D (SURFACE MOUNT)	12.00	EACH		\$	
2150	24631EC		BARCODE SIGN INVENTORY	469.00	EACH		\$	
2160	24631EC		BARCODE SIGN INVENTORY HAZEL WAYFINDING SIGN	2.00	EACH		\$	

Section: 0011 - LIGHTING

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2170	04700		POLE 30 FT MTG HT	6.00	EACH		\$	
2180	04701		POLE 40 FT MTG HT	6.00	EACH		\$	
2190	04724		BRACKET 12 FT	6.00	EACH		\$	

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LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2200	04725		BRACKET 15 FT	6.00	EACH		\$	
2210	04740		POLE BASE	12.00	EACH		\$	
2220	04750		TRANSFORMER BASE	12.00	EACH		\$	
2230	04761		LIGHTING CONTROL EQUIPMENT	3.00	EACH		\$	
2240	04780		FUSED CONNECTOR KIT	24.00	EACH		\$	
2250	04797		CONDUIT-3 IN	1,520.00	LF		\$	
2260	04800		MARKER	19.00	EACH		\$	
2270	04820		TRENCHING AND BACKFILLING	7,550.00	LF		\$	
2280	04832		WIRE-NO. 12	1,746.00	LF		\$	
2290	20391NS835		ELECTRICAL JUNCTION BOX TYPE A	13.00	EACH		\$	
2300	21543EN		BORE AND JACK CONDUIT	1,520.00	LF		\$	
2310	24589ED		LED LUMINAIRE	12.00	EACH		\$	
2320	24851EC		CABLE-NO. 10/3C DUCTED	8,590.00	LF		\$	

Section: 0012 - MOBILIZATION AND/OR DEMOBILIZATION

LINE	BID CODE	ALT	DESCRIPTION	QUANTITY	UNIT	UNIT PRIC	FP	AMOUNT
2330	02568		MOBILIZATION	1.00	LS		\$	
2340	02569		DEMOBILIZATION	1.00	LS		\$	

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

CALLOWAY COUNTY

US 641 OVER

MIDDLE FORK CLARKS RIVER

STA. 104+69.83

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SPECIAL NOTES

Concrete Sealing

SPECIAL PROVISIONS

69 Embankment at Bridge End Bent Structures

STANDARD DRAWINGS

BBP-001-12	Elastomeric Bearing Pads for Prestressed Beams
BBP-002-04	Bearing Details
BGX-006-10	Stencils for Structures
BGX-012-02	Geotechnical Legend
BGX-017-02	Approach Slab
BJE-001-13	Neoprene Expansion Dams and Armored Edges
BPS-003-09	HP12x53 Steel Pile
BHS-010	Railing System 40 Inch Single Slope
BGX-015-03	Settlement Platform

SPECIFICATIONS

2019 Standard Specifications for Road and Bridge Construction w/current supplemental specifications
2014 AASHTO LRFD Bridge Design Specifications 7th Ed. with no Interims.

Clarify bid for settlement platforms 10/20/20

DATE	REVISION	CHECKED BY	DATE
August 2020		E. Albrecht	
		W. Hagerman	

Commonwealth of Kentucky
DEPARTMENT OF HIGHWAYS

COUNTY
CALLOWAY

ROUTE CROSSING
US 641 MIDDLE FORK CLARKS RIVER

TITLE SHEET

PREPARED BY
HDR

SHEET NO.
S1

DRAWING NO.
25669

PLANS PREPARED BY
HDR ENGINEERING, INC.

WESLEY W. HAGERMAN, PE
26093

ITEM NUMBER
1-314.20

ESTIMATE OF QUANTITIES

BID ITEM CODE	BID ITEM	UNIT	C.Y.	LBS.	TONS	Concrete Class "A"	Concrete Class "AA"	Precast PCI Beam Type 3	Structure Granular Backfill	Concrete Sealing	Armored Edge for Concrete	Rail System 40 Inch Single Slope	Test Piles	Piles - Steel HP 12 x 53	Approach Slab	Settlement Platform	Steel Pipe 2 1/2 Inch	Steel Pipe 4 Inch	
08100	Concrete Class "A"		29.0			266.6													
08150	Steel Reinforcement			3513	2942		279.5												
08151	Steel Reinforcement, Epoxy Coated																		
08003	Foundation Preparation																		
08019	Cyclopean Stone Rip Rap			346															
08653	Precast PCI Beam Type 3						1376.0												
02231	Structure Granular Backfill						268												
23378EC	Concrete Sealing							13823											
03299	Armored Edge for Concrete							102.5											
25028ED	Rail System 40 Inch Single Slope							468											
08033	Test Piles										120								
08046	Piles - Steel HP 12 x 53										2166								
08500	Approach Slab														234				
02692	Settlement Platform															2			
03340	Steel Pipe 2 1/2 Inch																21		
03343	Steel Pipe 4 Inch																	18.6	
Substructure																			
Superstructure																			
BRIDGE TOTALS																			

TRANSPORTATION CABINET DEPARTMENT OF HIGHWAYS

CALLOWAY COUNTY

US 641 OVER

MIDDLE FORK CLARKS RIVER

STA. 104 + 69.83

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S664-S665	Approach Slab
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S724-S725	Approach Slab
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S816-S817	Approach Slab
S818-S819	Approach Slab
S820-S821	Approach Slab
S822-S823	Approach Slab
S824-S825	Approach Slab
S826-S827	Approach Slab
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S830-S831	Approach Slab
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S842-S843	Approach Slab
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S846-S847	Approach Slab
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S904-S905	Approach Slab
S906-S907	Approach Slab
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S912-S913	Approach Slab
S914-S915	Approach Slab
S916-S917	Approach Slab
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S920-S921	Approach Slab
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S926-S927	Approach Slab
S928-S929	Approach Slab
S930-S931	Approach Slab
S932-S933	Approach Slab
S934-S935	Approach Slab
S936-S937	Approach Slab
S938-S939	Approach Slab
S940-S941	Approach Slab
S942-S943	Approach Slab
S944-S945	

GENERAL NOTES

SPECIFICATIONS: References to the Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction including any current Supplemental Specifications. All references to the AASHTO Specifications are to the Seventh Edition of the AASHTO LRFD Bridge Design Specifications, 2014.

DESIGN LOAD: This bridge is designed for KY HL-93 live load. The KY HL-93 live load is arrived at by increasing the standard HL-93 truck and lane loads as specified in the AASHTO specifications by 25%.

WIND LOAD: This bridge is designed for a wind load based on a wind velocity of 100 mph.

FUTURE WEARING SURFACE: This bridge is designed for a 60 PSF future wearing surface load with a 1.25 load factor.

SEISMIC DESIGN: This bridge is designed for Seismic Performance Zone 2 based on a modified peak ground acceleration coefficient $A_s = 0.350$ and a modified response spectral acceleration coefficient $SD1 = 0.300$ assuming Site Class D.

MATERIAL DESIGN SPECIFICATIONS:

For Class "A" Concrete: $f'c = 3,500$ psi
 For Class "AA" Concrete: $f'c = 4,000$ psi
 For Steel Reinforcement: $F_y = 60,000$ psi
 For Steel Piling: $F_y = 50,000$ psi

CONCRETE: Class "AA" Concrete is to be used in the superstructure slab, railing, pier diaphragms, and portions of the integral end bents above the bearing seats. Class "A" Concrete is to be used in the pier footings, columns, webrails and caps, and in portions of the integral end bents below the bearing seats.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete is 2", unless otherwise noted. Epoxy coat bars designated by suffix (E) in accordance with Section 811.10 of the Standard Specifications. Use stirrup bend diameters for bars designated by suffix (S) in a Bill of Reinforcement.

ELASTOMERIC BEARINGS: Contrary to the Specifications, elastomeric bearings shall conform to the AASHTO LRFD Bridge Construction Specifications, Section 18 and the AASHTO LRFD Bridge Design Specifications, Section 14. Bearings shall be low temperature Grade 3 with durometer hardness of 50 and shall be subjected to the load testing requirements corresponding to Design Method A. Leveling pads at the integral end bents are unaminated bearings cut or molded from Grade 3 elastomer with a hardness of 60 durometers. Leveling pads are not required to be load tested. The cost of bearing pads, leveling pads, and shims are to be included in the unit price per linear feet for precast beams.

BEVELED EDGES: Bevel all exposed edges $3/4"$, unless otherwise noted.

SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to the Consultant. If any changes in the design plans are proposed by a fabricator or supplier, submit those changes to the Consultant through the Contractor. Submit final, approved plans to Division of Structural Design.

SUPERSTRUCTURE SLAB: Ensure the entire superstructure slab is poured continuously, out-to-out, before any concrete is allowed to set.

FOOTING EXCAVATION: Ensure excavation for footings is in accordance with Subsection 603.03.03 of the specifications.

COMPLETION OF THE STRUCTURE: The Contractor is required to complete the structure in accordance with the plans and specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include cofferdams, shoring, excavations, back filling, removal of all or parts of existing structures, phase construction, incidental materials, labor, or anything else required to complete the structure.

SLOPE PROTECTION: Use dry cyclopean stone rip-rap in accordance with the plans and Specifications. Any required Excavation and all Geotextile fabric is to be incidental to the unit price bid for this item.

DIMENSIONS: Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions.

ON-SITE INSPECTION: Each contractor submitting a bid for this work shall make a thorough inspection of the project site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department of Highways.

CONSTRUCTION IDENTIFICATION: The names of the prime contractor and the sub-contractor shall be imprinted in the concrete with 1" letters at a location designed by the Engineer. The contractor shall furnish all plans, equipment, and labor necessary to do the work for which no direct payment will be made.

FOUNDATION DATA: See "FOUNDATION LAYOUT" sheets.

TEMPORARY SHORING: Temporary sheeting or shoring may be required for the construction. Include the cost of this work in the bid item for "STRUCTURE EXCAVATION, COMMON".

COFFERDAMS: Cofferdams and/or dewatering methods may be required to facilitate foundation construction. Include the cost of this work in the bid item for "STRUCTURE EXCAVATION, COMMON".

APPROACH EMBANKMENT SETTLEMENT: The approach embankments to the bridge shall be placed as one of the first efforts of roadway construction due to the anticipated settlement concerns. These embankments shall be built to full height within the limits specified in the plans. A minimum 45 day waiting period will be required following completion of the embankment construction before installation of the piles can begin. Based upon the results of the settlement data, KYTC Geotechnical Branch will determine when enough settlement has occurred to permit installation of the piles. The waiting period may be increased or decreased as required. ~~See Roadway Plans for payment information and additional details.~~ All labor and materials associated with this work shall be included in the bid item SETTLEMENT PLATFORM, STEEL PIPE 4 INCH, or STEEL PIPE 2 1/2 INCH.

Settlement platforms shall be installed at the following locations in accordance with Section 216 of the current Standard Specifications for Road and Bridge Construction and Standard Drawing RGX-015. The platforms shall be offset from the located centerline so as to be immediately outside of the guardrail or at the edge of the shoulder. The settlement platforms shall be left in place for future readings after the project has been completed. The Engineer will be responsible for reading the instrumentation. A pre-qualified Geotechnical Engineer or the KYTC Geotechnical Branch shall be responsible for evaluation of the settlement data. The Contractor shall be responsible for replacing all damaged platforms at no extra cost.

Station 103+50, Rt of CL
 Station 106+00, Rt of CL

CONCRETE SEALER: Apply concrete sealer in accordance with the Special Note for Concrete Sealing. Note that concrete sealers are typically not compatible with concrete curing compounds. Contrary to the Specifications no "masonry coating" or "concrete coating" is required on this structure.

Areas to Receive Concrete Sealer:

- Every exposed substructure surface above a point 6 inches below ground or fill line of abutments, wing walls, end bent and pier caps, pedestals, back walls, columns, and exposed footings.
- All exposed surfaces of concrete deck, barrier walls, parapets, curbs, and plinths.
- Prestressed Concrete I-Girders, Concrete Beams, and Spread Prestressed Concrete Box Beams: The underneath surfaces of deck overhangs outside of exterior concrete girders and to the exterior side and bottom of exterior concrete girders and beams.

The following abbreviations may have been used in the preparation of these plans:

Approx.	Approximate
bet.	Between
b.f.	Back Face
BOF	Bottom of Footing
bot.	Bottom
Brg.	Bearing
C to C	Center to Center
Constr.	Construction
c.e.	Current Edition
C.Y.	Cubic Yard
Chd.	Chord
CL	Center Line
Clr.	Clear
Conc.	Concrete
Cu.	Cubic
Dim.	Dimension
Dwg.	Drawing
ea.	Each
e.f.	Each Face
Elev.	Elevation
Embed.	Embedment
ea.	Equal
Est.	Estimate
Ext.	Exterior
F to F	Face to Face
f.f.	Front Face
f.s.	Far Side
fr.	Front
ft.	Feet
HW	High Water
I.D.	Inside Diameter
IEB	Integral End Bent
in.	Inch
Int.	Interior
L	Left
LBS	Low Bridge Seat
LBS.	Pounds
max.	Maximum
M	Meter
MPH	Miles per Hour
n.s.	Near Side
O.D.	Outside Diameter
Opp.	Opposite
PC	Point of Curve
Perp.	Perpendicular
PI	Point of Intersection
PPC	Precast Prestressed Concrete
PSI	Pounds per Square Inch
PT	Point of Tangent
R	Radius
R	Right
RCBC	Reinforced Concrete Box Culvert
RCOG	Reinforced Concrete Deck Girder
Req'd.	Required
Shld	Shoulder
Sht.	Sheet
spa.	Spaces
Sta.	Station
Std.	Standard
Str.	Straight
s/w	Spliced with
Tan	Tangent
Thru	Through
TOF	Top of Footing
Tot.	Total
Typ.	Typical
Vert.	Vertical
W.P.	Working Point
Yd.	Yard
Yr.	Year

▲ Clarify bid for settlement platforms	10/20/20
REVISION	DATE
August 2020	CHECKED BY
DESIGNED BY: W. Hagerman	E. Albrecht
DETAILED BY: J. Perry	W. Hagerman
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY	
CALLOWAY	
ROUTE	CROSSING
US 641	MIDDLE FORK CLARKS RIVER
GENERAL NOTES	

ITEM NUMBER	1-314.20
PREPARED BY	
SHEET NO.	DRAWING NO.
S2	25669

GENERAL NOTES

SPECIFICATIONS: References to the Specifications are to the current edition of the Kentucky Department of Highways Standard Specifications for Road and Bridge Construction including any current Supplemental Specifications. All references to the AASHTO Specifications are to the Seventh Edition of the AASHTO LRFD Bridge Design Specifications, 2014.

DESIGN LOAD: This bridge is designed for KY HL-93 live load. The KY HL-93 live load is arrived at by increasing the standard HL-93 truck and lane loads as specified in the AASHTO specifications by 25%.

WIND LOAD: This bridge is designed for a wind load based on a wind velocity of 100 mph.

FUTURE WEARING SURFACE: This bridge is designed for a 60 PSF future wearing surface load with a 1.25 load factor.

SEISMIC DESIGN: This bridge is designed for Seismic Performance Zone 2 based on a modified peak ground acceleration coefficient $A_s = 0.350$ and a modified response spectral acceleration coefficient $SD1 = 0.300$ assuming Site Class D.

MATERIAL DESIGN SPECIFICATIONS:

For Class "A" Concrete: $f'c = 3,500$ psi
 For Class "AA" Concrete: $f'c = 4,000$ psi
 For Steel Reinforcement: $F_y = 60,000$ psi
 For Steel Piling: $F_y = 50,000$ psi

CONCRETE: Class "AA" Concrete is to be used in the superstructure slab, railing, pier diaphragms, and portions of the integral end bents above the bearing seats. Class "A" Concrete is to be used in the pier footings, columns, webrails and caps, and in portions of the integral end bents below the bearing seats.

REINFORCEMENT: Dimensions shown from the face of concrete to bars are to center of bars unless otherwise shown. Spacing of bars is from center to center of bars. Clear distance to face of concrete is 2", unless otherwise noted. Epoxy coat bars designated by suffix (E) in accordance with Section 811.10 of the Standard Specifications. Use stirrup bend diameters for bars designated by suffix (S) in a Bill of Reinforcement.

ELASTOMERIC BEARINGS: Contrary to the Specifications, elastomeric bearings shall conform to the AASHTO LRFD Bridge Construction Specifications, Section 18 and the AASHTO LRFD Bridge Design Specifications, Section 14. Bearings shall be low temperature Grade 3 with durometer hardness of 50 and shall be subjected to the load testing requirements corresponding to Design Method A. Leveling pads at the integral end bents are unaminated bearings cut or molded from Grade 3 elastomer with a hardness of 60 durometers. Leveling pads are not required to be load tested. The cost of bearing pads, leveling pads, and shims are to be included in the unit price per linear feet for precast beams.

BEVELED EDGES: Bevel all exposed edges $3/4"$, unless otherwise noted.

SHOP DRAWINGS: Submit shop drawings that are required by the plans and specifications directly to the Consultant. If any changes in the design plans are proposed by a fabricator or supplier, submit those changes to the Consultant through the Contractor. Submit final, approved plans to Division of Structural Design.

SUPERSTRUCTURE SLAB: Ensure the entire superstructure slab is poured continuously, out-to-out, before any concrete is allowed to set.

FOOTING EXCAVATION: Ensure excavation for footings is in accordance with Subsection 603.03.03 of the specifications.

COMPLETION OF THE STRUCTURE: The Contractor is required to complete the structure in accordance with the plans and specifications. Material, labor or construction operations, not otherwise specified, are to be included in the bid item most appropriate to the work involved. This may include cofferdams, shoring, excavations, back filling, removal of all or parts of existing structures, phase construction, incidental materials, labor, or anything else required to complete the structure.

SLOPE PROTECTION: Use dry cyclopean stone rip-rap in accordance with the plans and Specifications. Any required Excavation and all Geotextile fabric is to be incidental to the unit price bid for this item.

DIMENSIONS: Dimensions are for a normal temperature of 60 degrees Fahrenheit. Layout dimensions are horizontal dimensions.

ON-SITE INSPECTION: Each contractor submitting a bid for this work shall make a thorough inspection of the project site prior to submitting a bid and shall be thoroughly familiarized with existing conditions so that work can be expeditiously performed after a contract is awarded. Submission of a bid will be considered evidence of this inspection having been made. Any claims resulting from site conditions will not be honored by the Department of Highways.

CONSTRUCTION IDENTIFICATION: The names of the prime contractor and the sub-contractor shall be imprinted in the concrete with 1" letters at a location designated by the Engineer. The contractor shall furnish all plans, equipment, and labor necessary to do the work for which no direct payment will be made.

FOUNDATION DATA: See "FOUNDATION LAYOUT" sheets.

TEMPORARY SHORING: Temporary sheeting or shoring may be required for the construction. Include the cost of this work in the bid item for "STRUCTURE EXCAVATION, COMMON".

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Settlement platforms shall be installed at the following locations in accordance with Section 216 of the current Standard Specifications for Road and Bridge Construction and Standard Drawing RGX-015. The platforms shall be offset from the located centerline so as to be immediately outside of the guardrail or at the edge of the shoulder. The settlement platforms shall be left in place for future readings after the project has been completed. The Engineer will be responsible for reading the instrumentation. A pre-qualified Geotechnical Engineer or the KYTC Geotechnical Branch shall be responsible for evaluation of the settlement data. The Contractor shall be responsible for replacing all damaged platforms at no extra cost.

Station 103+50, Rt of CL
 Station 106+00, Rt of CL

CONCRETE SEALER: Apply concrete sealer in accordance with the Special Note for Concrete Sealing. Note that concrete sealers are typically not compatible with concrete curing compounds. Contrary to the Specifications no "masonry coating" or "concrete coating" is required on this structure.

Areas to Receive Concrete Sealer:

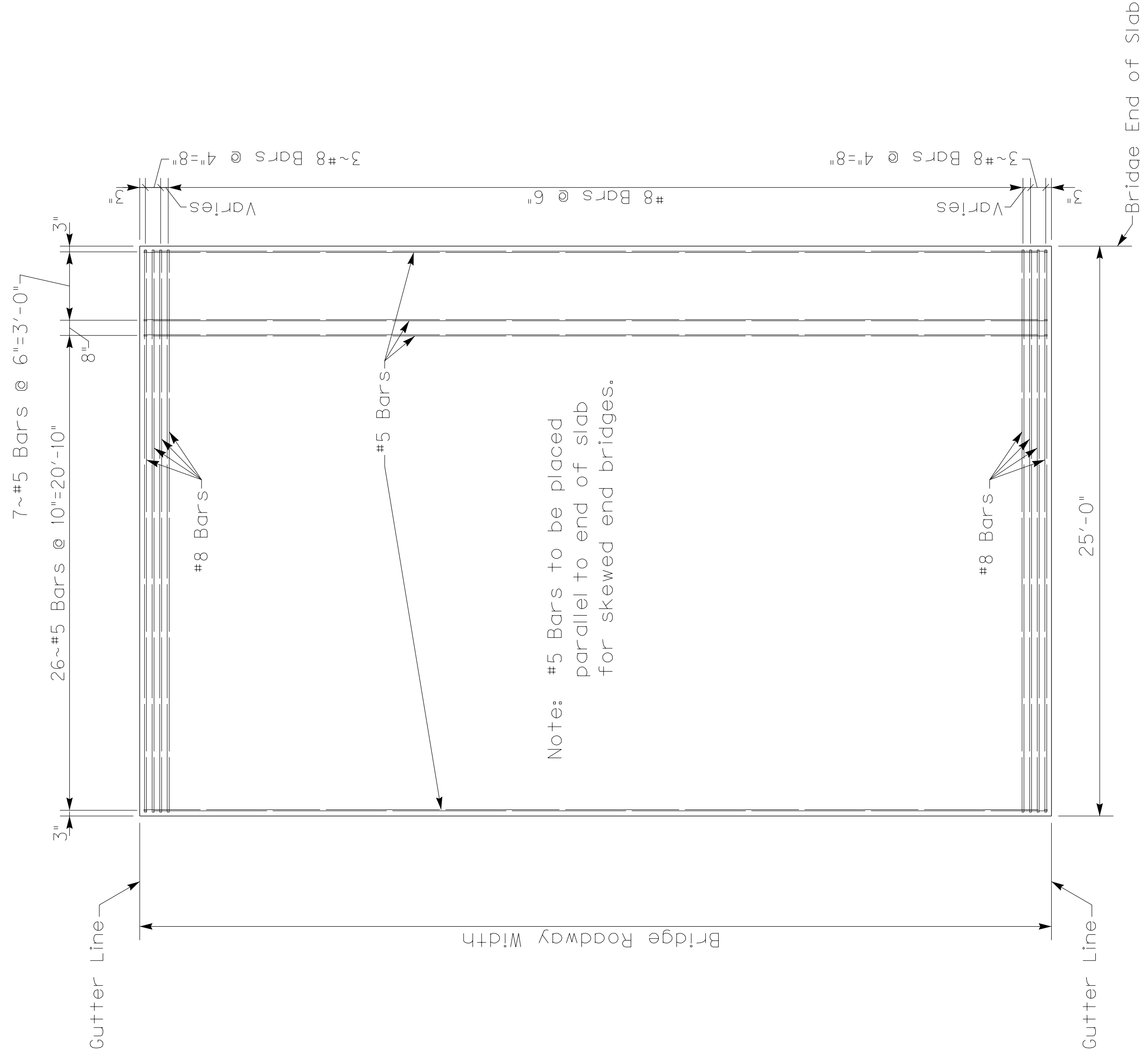
1. Every exposed substructure surface above a point 6 inches below ground or fill line of abutments, wing walls, end bent and pier caps, pedestals, back walls, columns, and exposed footings.
2. All exposed surfaces of concrete deck, barrier walls, parapets, curbs, and plinths.
3. Prestressed Concrete I-Girders, Concrete Beams, and Spread Prestressed Concrete Box Beams: The underneath surfaces of deck overhangs outside of exterior concrete girders and to the exterior side and bottom of exterior concrete girders and beams.

The following abbreviations may have been used in the preparation of these plans:

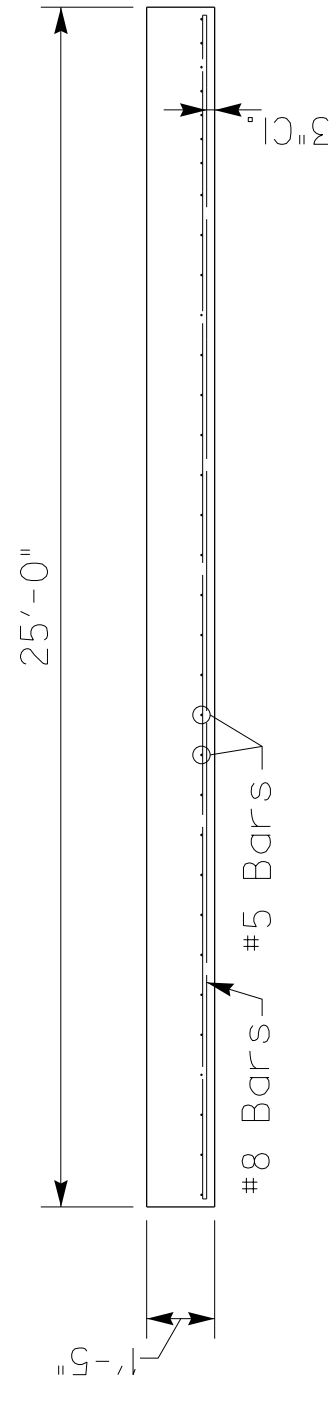
Approx. Bet. Back Face Bottom of Footing Bottom Bearing Center to Center Constr. Current Edition Cubic Yard Chd. CL Clear Conc. Cu. Dim. Dwg. ea. e-f. Elev. Embed. ea. Est. Ext. F to F f.f. f.s. fr. ft. ft. HW I.D. IEB in. Int. Int. L LBS LBS. max. M MPH n.s. O.D. Opp. PC Perp. PI PPC PSI PT R RC RCBC RCDG Req'd. Shld Sheet Spa. Sta. Std. Str. s/w Tan Thru TDF Tot. Typ. Vert. W.P. Yd. Yr.	Approximate Between Back Face Bottom of Footing Bottom Bearing Center to Center Construction Current Edition Cubic Yard Chord Center Line Clear Concrete Cu. Dimension Drawing Each Each Face Elevation Embedment Equal Estimate Exterior Face to Face Front Face Far Side Front Feet High Water Inside Diameter Integral End Bent Inch Interior Interior Left Low Bridge Seat Pounds Maximum Meter Miles per Hour Near Side Outside Diameter Opposite Point of Curve Perpendicular Point of Intersection Precast Prestressed Concrete Pounds per Square Inch Point of Tangent Radius Right Reinforced Concrete Box Culvert Reinforced Concrete Deck Girder Required Shoulder Sheet Spaces Station Standard Straight Spliced With Tangent Through Top of Footing Total Typical Vertical Working Point Yard Year
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Clarify bid for settlement platforms 10/20/20	
REVISION DATE: August 2020 DESIGNED BY: W. Hagerman DETAILED BY: J. Perry	CHECKED BY E. Albrecht W. Hagerman
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS COUNTY	
CALLOWAY	
ROUTE US 641	CROSSING MIDDLE FORK CLARKS RIVER
GENERAL NOTES	
PREPARED BY FOR	SHEET NO. S2
DRAWING NO. 25669	

ITEM NUMBER 1-314.20	
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PLAN



SECTION A-A

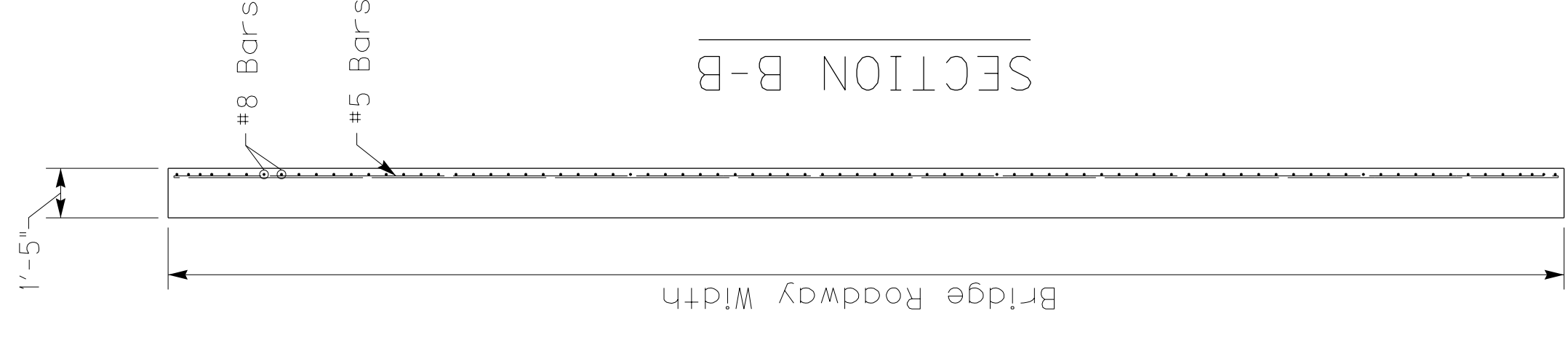
CROWN: Crown shall conform to the rate of crown at the approach pavement and bridge deck. If the rate of crown at the bridge deck differs from that of approach pavement, a smooth transition shall be provided within the limits of the approach slab.

CONCRETE: Concrete shall be Class "AA".

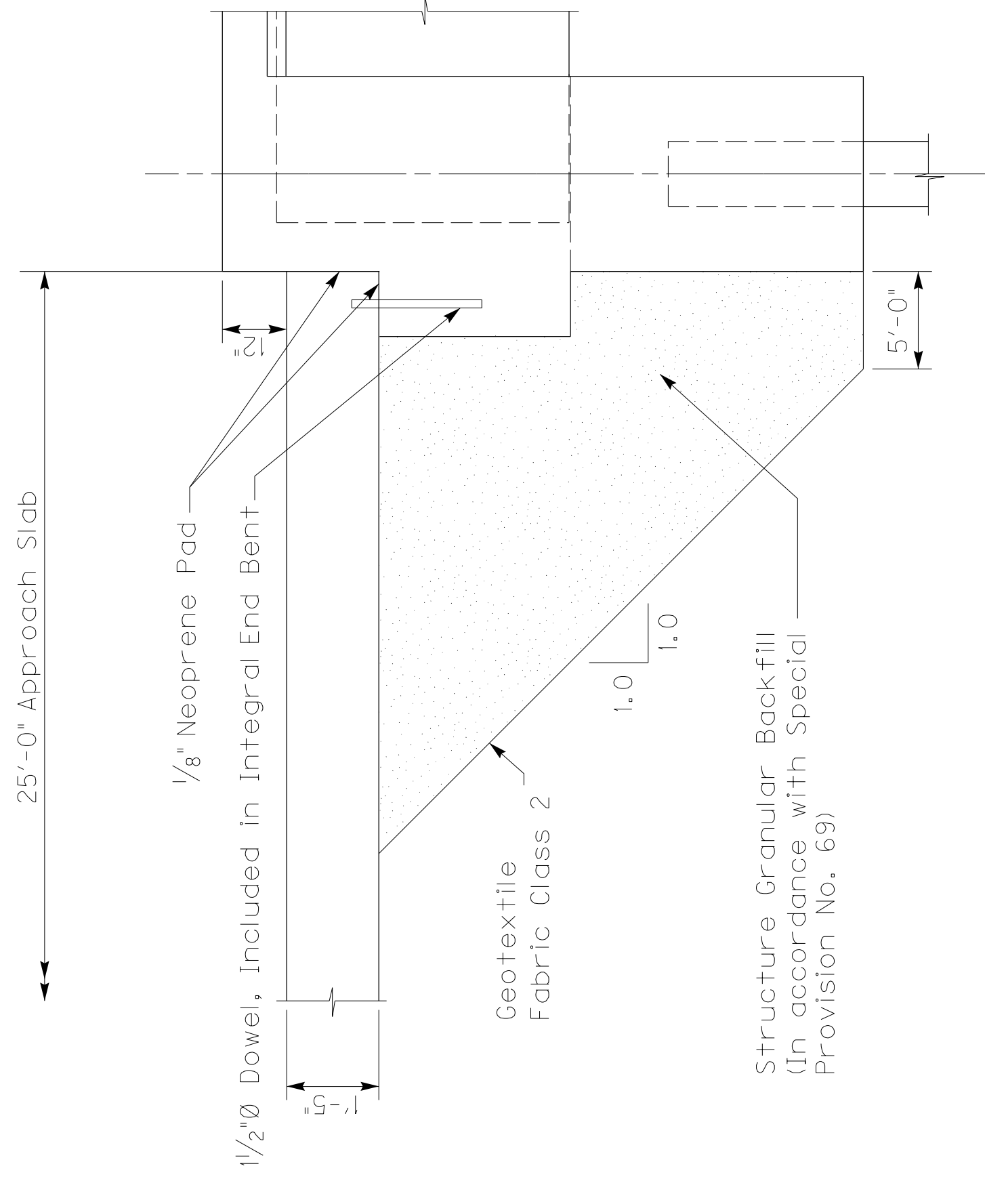
REINFORCEMENT: All steel reinforcement shall be Grade 60 and epoxy coated.

PAYMENT: Include the cost of Class "AA" Concrete, epoxy-coated steel reinforcement, and all labor and materials required to construct the approach slab in the bid item for Approach Slab.

GENERAL NOTES

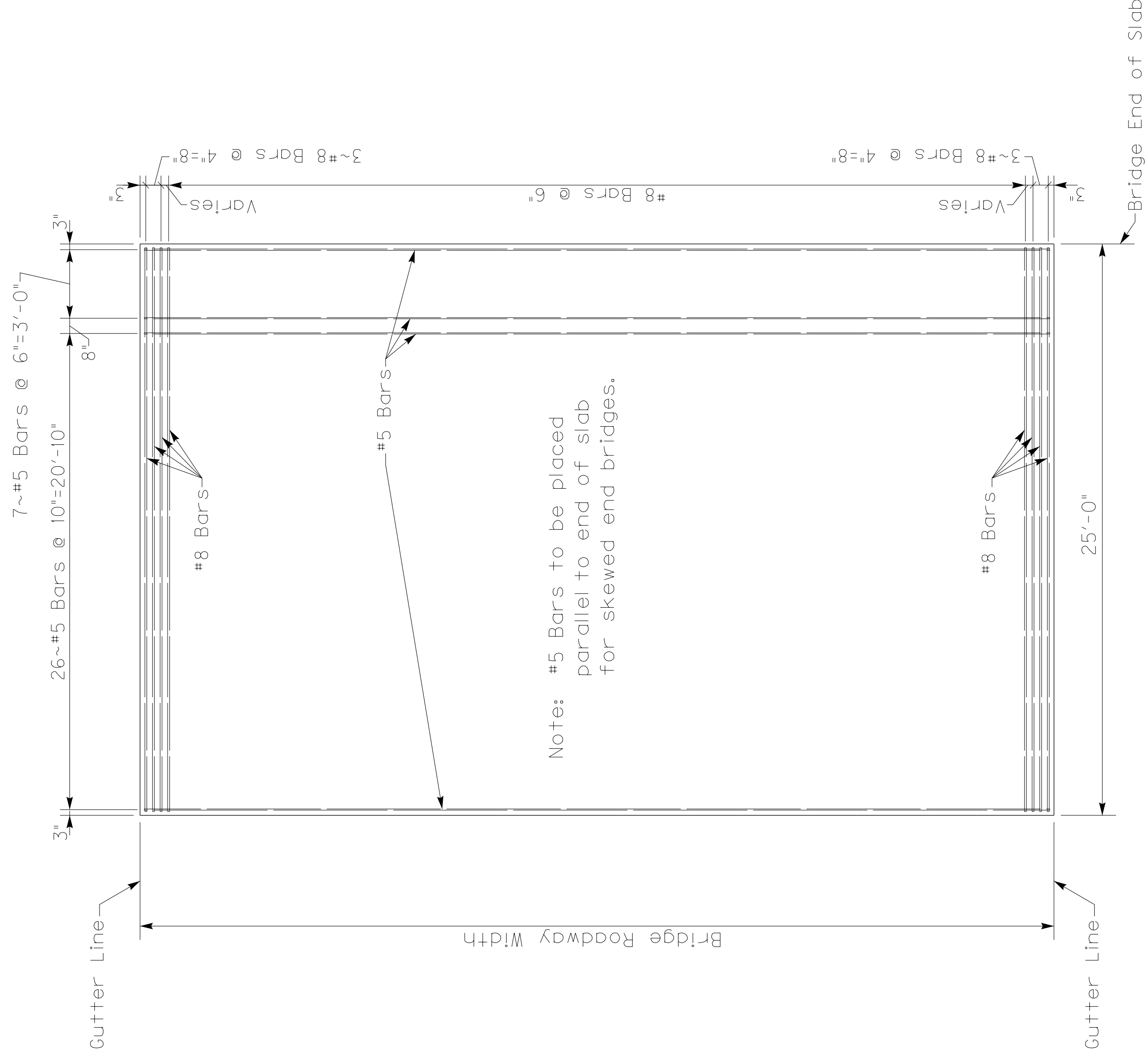


SECTION B-B

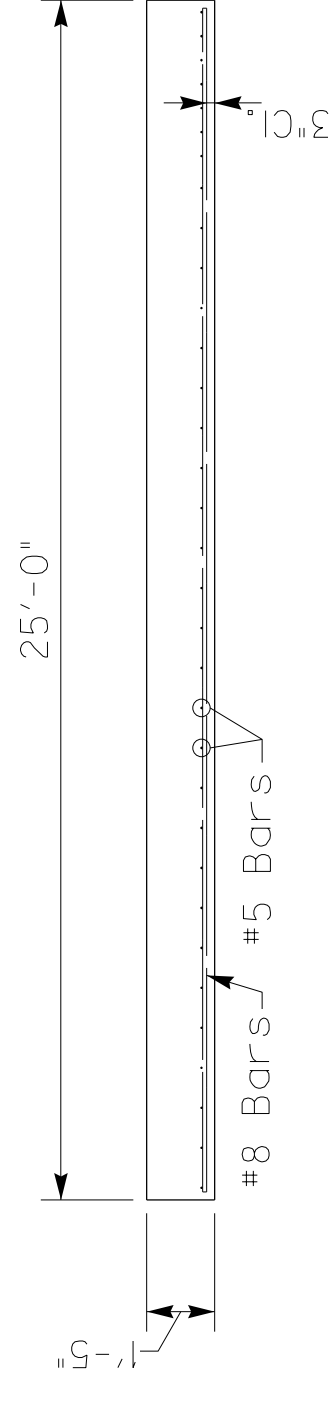


TYPICAL SECTION @ BRIDGE END

REVISION	DATE
DESIGNED BY: A. Cole	CHECKED BY: W. Hagerman
DETAILED BY: A. Cole	W. Hagerman
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY CALLOWAY	
ROUTE US 641	CROSSING MIDDLE FORK CLARKS RIVER
APPROACH SLAB	
PREPARED BY FOR	SHEET NO. S31
ITEM NUMBER 1-314.20	DRAWING NO. 25669



PLAN



SECTION A-A

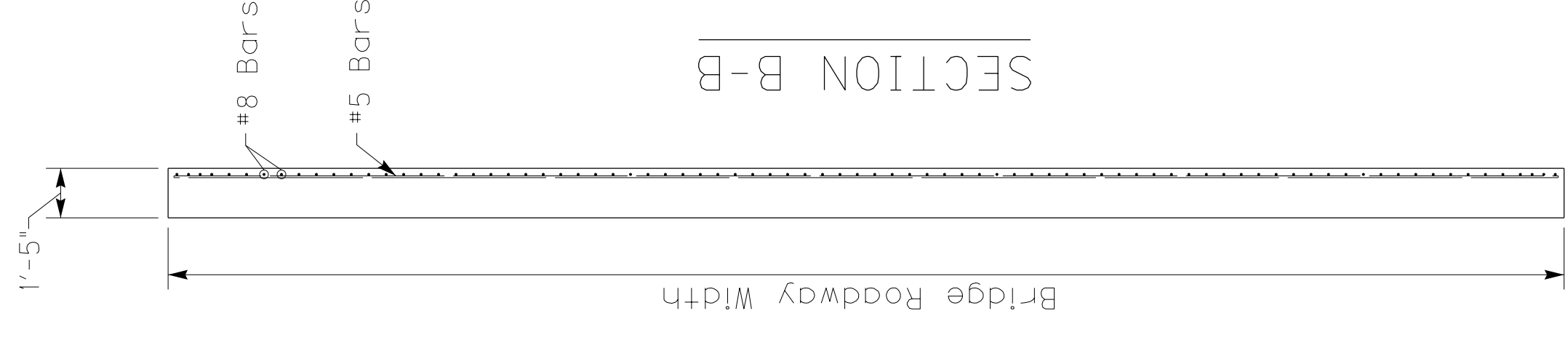
CROWN: Crown shall conform to the rate of crown at the approach pavement and bridge deck. If the rate of crown at the bridge deck differs from that of approach pavement, a smooth transition shall be provided within the limits of the approach slab.

CONCRETE: Concrete shall be Class "AA".

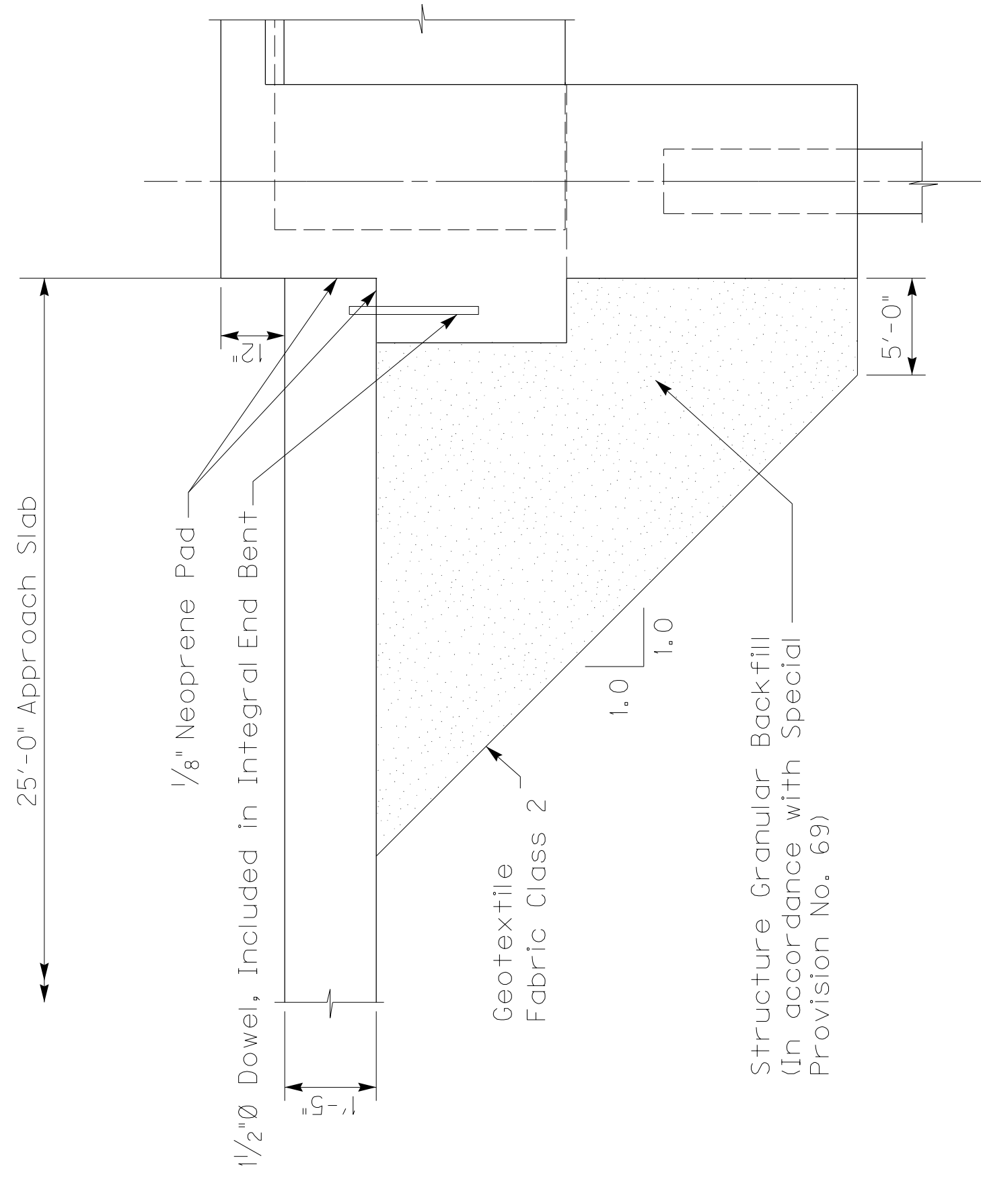
REINFORCEMENT: All steel reinforcement shall be Grade 60 and epoxy coated.

PAYMENT: Include the cost of Class "AA" Concrete, epoxy-coated steel reinforcement, and all labor and materials required to construct the approach slab in the bid item for Approach Slab.

GENERAL NOTES



SECTION B-B



TYPICAL SECTION @ BRIDGE END

REVISION	DATE
DESIGNED BY: A. Cole	CHECKED BY: W. Hagerman
DETAILED BY: A. Cole	W. Hagerman
Commonwealth of Kentucky DEPARTMENT OF HIGHWAYS	
COUNTY CALLOWAY	
ROUTE US 641	CROSSING MIDDLE FORK CLARKS RIVER
APPROACH SLAB	
PREPARED BY FOR	SHEET NO. S31
ITEM NUMBER 1-314.20	DRAWING NO. 25669