



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

January 10, 2020

Addendum No. 1

Contract No.: DA00470

WBS Element: 17BP.1.R.63

Replacement of Bridge #36 on SR 1143 (Sladesville-Credle Rd) over Smith Creek in Hyde County

To Whom It May Concern:

Reference is made to the proposal and plans previously furnished for this project.

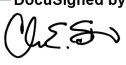
The following revision has been made to the proposal and plans:

Pages 128 - 131, "Bid Form" has been revised to delete the line item for "Precast Reinforced Concrete Barrier, Single Faced" and update the quantity for line item "Vertical Concrete Barrier Rail". Please replace the original Pages 128 - 131, "Bid Form" with the attached revised Pages 128 - 131, "Bid Form".

Plan Sheet S-2, "General Drawing" has been revised to update the quantity for "Vertical Concrete Barrier Rail". Please replace the original Plan Sheet S-2, "General Drawing" with the attached revised Plan Sheet S-2, "General Drawing".

The amended EBS File (DA00470.001x) has been uploaded. We apologize for any inconvenience.

Sincerely,

DocuSigned by:

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C. E. Slachta
Division Proposals Engineer

Cc: J. D. Jennings, PE
C. W. Bridgers Jr., PE
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NC DEPARTMENT OF TRANSPORTATION
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113 AIRPORT DRIVE, SUITE 100
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Location:
113 AIRPORT DRIVE, SUITE 100
EDENTON, NC 27932

County : Hyde

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
ROADWAY ITEMS						
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0030000000-N	SP	TYPE II MODIFIED APPROACH FILL, STATION ***** (12+78.81)	Lump Sum	L.S.	
0003	0050000000-E	226	SUPPLEMENTARY CLEARING & GRUB- BING	1 ACR		
0004	0057000000-E	226	UNDERCUT EXCAVATION	300 CY		
0005	0195000000-E	265	SELECT GRANULAR MATERIAL	300 CY		
0006	0196000000-E	270	GEOTEXTILE FOR SOIL STABILIZA- TION	300 SY		
0007	0248000000-N	SP	GENERIC GRADING ITEM (EXCAVATION & EMBANKMENT)	Lump Sum	L.S.	
0008	0318000000-E	300	FOUNDATION CONDITIONING MATE- RIAL, MINOR STRUCTURES	5 TON		
0009	0320000000-E	300	FOUNDATION CONDITIONING GEO- TEXTILE	10 SY		
0010	1330000000-E	607	INCIDENTAL MILLING	300 SY		
0011	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	240 TON		
0012	1520000000-E	SP	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (LEVELING COURSE)	150 TON		
0013	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	21 TON		
0014	2022000000-E	815	SUBDRAIN EXCAVATION	45 CY		
0015	2026000000-E	815	GEOTEXTILE FOR SUBSURFACE DRAINS	200 SY		
0016	2036000000-E	815	SUBDRAIN COARSE AGGREGATE	34 CY		
0017	2044000000-E	815	6" PERFORATED SUBDRAIN PIPE	200 LF		
0018	2070000000-N	815	SUBDRAIN PIPE OUTLET	1 EA		

County : Hyde

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0019	2077000000-E	815	6" OUTLET PIPE	6 LF		
0020	2556000000-E	846	SHOULDER BERM GUTTER	87 LF		
0021	2570000000-N	SP	MODIFIED CONCRETE FLUME	1 EA		
0022	3030000000-E	862	STEEL BEAM GUARDRAIL	175 LF		
0023	3150000000-N	862	ADDITIONAL GUARDRAIL POSTS	2 EA		
0024	3215000000-N	SP	GUARDRAIL ANCHOR UNITS, TYPE III	4 EA		
0025	3288000000-N	SP	GUARDRAIL END UNITS, TYPE TL-2	4 EA		
0026	3649000000-E	876	RIP RAP, CLASS B	2 TON		
0027	3656000000-E	876	GEOTEXTILE FOR DRAINAGE	160 SY		
0028	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0029	4685000000-E	1205	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	1,692 LF		
0030	4900000000-N	1251	PERMANENT RAISED PAVEMENT MARKERS	6 EA		
0031	6000000000-E	1605	TEMPORARY SILT FENCE	1,145 LF		
0032	6006000000-E	1610	STONE FOR EROSION CONTROL, CLASS A	75 TON		
0033	6009000000-E	1610	STONE FOR EROSION CONTROL, CLASS B	5 TON		
0034	6012000000-E	1610	SEDIMENT CONTROL STONE	5 TON		
0035	6015000000-E	1615	TEMPORARY MULCHING	0.5 ACR		
0036	6018000000-E	1620	SEED FOR TEMPORARY SEEDING	100 LB		
0037	6021000000-E	1620	FERTILIZER FOR TEMPORARY SEEDING	0.5 TON		

County : Hyde

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0038	6024000000-E	1622	TEMPORARY SLOPE DRAINS	200		LF
0039	6029000000-E	SP	SAFETY FENCE	920		LF
0040	6030000000-E	1630	SILT EXCAVATION	10		CY
0041	6036000000-E	1631	MATTING FOR EROSION CONTROL	2,300		SY
0042	6037000000-E	SP	COIR FIBER MAT	100		SY
0043	6048000000-E	SP	FLOATING TURBIDITY CURTAIN	225		SY
0044	6071012000-E	SP	COIR FIBER WATTLE	100		LF
0045	6084000000-E	1660	SEEDING & MULCHING	0.5		ACR
0046	6087000000-E	1660	MOWING	1		ACR
0047	6090000000-E	1661	SEED FOR REPAIR SEEDING	50		LB
0048	6093000000-E	1661	FERTILIZER FOR REPAIR SEEDING	0.25		TON
0049	6096000000-E	1662	SEED FOR SUPPLEMENTAL SEEDING	50		LB
0050	6108000000-E	1665	FERTILIZER TOPDRESSING	0.25		TON
0051	6114500000-N	1667	SPECIALIZED HAND MOWING	10		MHR
0052	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	25		EA
0053	6123000000-E	1670	REFORESTATION	0.1		ACR
0054	6132000000-N	SP	GENERIC EROSION CONTROL ITEM (CONC WASHOUT STR))	2		EA

STRUCTURE ITEMS

0055	8035000000-N	402	REMOVAL OF EXISTING STRUCTURE AT STATION ***** (12+78.81)	Lump Sum	L.S.	
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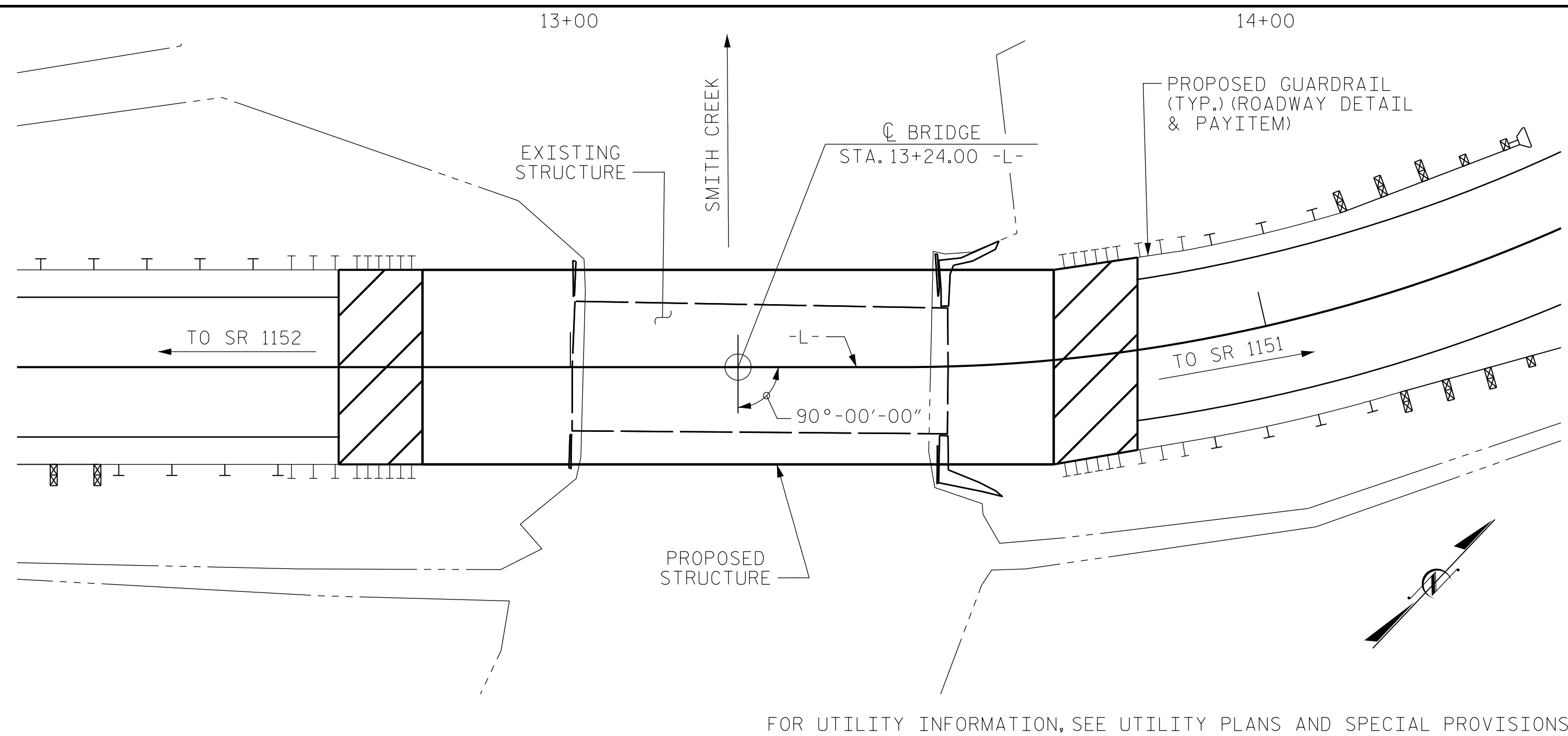
County : Hyde

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
0056	8065000000-N	SP	ASBESTOS ASSESSMENT	Lump Sum	L.S.	
0057	8112730000-N	450	PDA TESTING	1 EA		
0058	8182000000-E	420	CLASS A CONCRETE (BRIDGE)	36.7 CY		
0059	8210000000-N	422	BRIDGE APPROACH SLABS, STATION ***** (12+78.81)	Lump Sum	L.S.	
0060	8217000000-E	425	REINFORCING STEEL (BRIDGE)	5,875 LB		
0061	8328000000-E	450	PILE DRIVING EQUIPMENT SETUP FOR *** PRESTRESSED CONCRETE PILES (16")	17 EA		
0062	8333000000-E	450	16" PRESTRESSED CONCRETE PILES	1,405 LF		
0063	8393000000-N	450	PILE REDRIVES	10 EA		
0064	8505000000-E	460	VERTICAL CONCRETE BARRIER RAIL	180 LF		
0065	8608000000-E	876	RIP RAP CLASS II (2'-0" THICK)	140 TON		
0066	8622000000-E	876	GEOTEXTILE FOR DRAINAGE	225 SY		
0067	8657000000-N	430	ELASTOMERIC BEARINGS	Lump Sum	L.S.	
0068	8762000000-E	430	3'-0" X 1'-9" PRESTRESSED CONC CORED SLABS	900 LF		
0069	8867000000-E	SP	GENERIC STRUCTURE ITEM (FIBER OPTIC CONDUIT)	100 LF		

1040/Jan10/Q18468.8/D330058342000/E69

Total Amount Of Bid For Entire Project :

BM: R/R SPIKE IN BASE OF 15" PINE; BM10 BL STATION 09+24.00, 22.4' LT, EL. 3.93



LOCATION SKETCH

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING
 THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASTHO LRFD BRIDGE DESIGN SPECIFICATIONS.
 THIS BRIDGE IS LOCATED IN SEISMIC ZONE 1.
 THIS STRUCTURE CONTAINS THE NECESSARY CORROSION PROTECTION REQUIRED FOR A CORROSIVE SITE.
 FOR UTILITY INFORMATION, SEE UTILITY PLANS.
 FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
 FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
 FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
 FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
 MATERIAL SHOWN IN THE CROSS-HATCHED AREA SHALL BE EXCAVED FOR A DISTANCE OF 18 FT EACH SIDE OF CENTERLINE ROADWAY AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR UNCLASSIFIED STRUCTURE EXCAVATION. SEE SECTION 412 OF THE STANDARD SPECIFICATIONS.
 CLASS AA CONCRETE SHALL BE USED IN ALL CAST-IN-PLACE COLUMNS, BENT CAPS, PILE CAPS, AND FOOTINGS, AND SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR.
 ALL BAR SUPPORTS USED IN THE BARRIER RAIL, BENT CAPS, END BENTS CAPS AND ALL INCIDENTAL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
 THE CONCRETE IN THE BENT CAP, END BENT CAPS, AND PILES OF BENT NO. 1 AND END BENTS NO. 1 & 2 SHALL CONTAIN SILICA FUME. SILICA FUME SHALL BE SUBSTITUTED FOR 5% OF THE PORTLAND CEMENT BY WEIGHT. IF THE OPTION OF ARTICLE 1024-1 OF THE STANDARD SPECIFICATIONS TO PARTIALLY SUBSTITUTE CLASS F FLY ASH FOR PORTLAND CEMENT IS EXERCISED, THEN THE RATE OF FLY ASH SUBSTITUTION SHALL BE REDUCED TO 1.0 LB OF FLY ASH PER 1.0 LB OF CEMENT. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION AS IT IS CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS.
 AFTER SERVING AS A TEMPORARY STRUCTURE THE EXISTING STRUCTURE CONSISTING OF 3 SPANS TOTALING 52'-0", WITH TIMBER FLOORS AND TIMBER JOISTS, ON TIMBER CAPS WITH TIMBER PILES, AND 19'-2" CLEAR ROADWAY TO BE REMOVED). THE EXISTING BRIDGE IS PRESENTLY POSTED FOR LOAD LIMIT. SHOULD THE STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF THE PROPOSED BRIDGE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS FOUND NECESSARY DURING THE LIFE OF THE PROJECT.

FOUNDATION NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
 PILES AT END BENTS No. 1 AND 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 75 TONS PER PILE.
 DRIVE PILES AT END BENTS No. 1 AND 2 TO A REQUIRED DRIVING RESISTANCE OF 125 TONS PER PILE.
 PILES AT BENT No. 1 ARE DESIGNED FOR A FACTORED RESISTANCE OF 105 TONS PER PILE.
 DRIVE PILES AT BENT No. 1 TO A REQUIRED DRIVING RESISTANCE OF 185 TONS PER PILE. THIS REQUIRED DRIVING RESISTANCE INCLUDES ADDITIONAL RESISTANCE FOR DOWNDRAW OR SCOUR.
 INSTALL PILES AT BENT No. 1 TO A TIP ELEVATION NO HIGHER THAN -40 FT.
 THE SCOUR CRITICAL ELEVATION FOR BENT No. 1 IS ELEVATION -12 FT. SCOUR CRITICAL ELEVATION IS USED TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.
 IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 15 TO 25 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT END BENT No. 1 AND 2. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.
 IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 35 TO 45 FT-KIPS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT BENT No. 1. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(D)(2) OF THE STANDARD SPECIFICATIONS.
 TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS (AND FOR PILE DRIVING CRITERIA, SEE PILE DRIVING CRITERIA PROVISION).
 STEEL PILE TIPS ARE REQUIRED FOR PRESTRESSED CONCRETE PILES AT END BENTS No. 1 AND 2, AND BENT No. 1. FOR STEEL PILE TIPS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
 PREDRILLING FOR PILES IS REQUIRED AT END BENTS No. 1 AND 2, AND BENT No. 1. PREDRILL PILE LOCATIONS TO ELEVATION -20 FT WITH EQUIPMENT THAT WILL RESULT IN A MAXIMUM PREDRILLING DIAMETER OF 23". FOR PREDRILLING FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
 SPUDDING MAY BE USED INSTEAD OF PREDRILLING AT END BENT No. 1 AND 2, AND BENT No. 1.
 TEMPORARY STEEL CASINGS ARE REQUIRED FOR PREDRILLING AT END BENTS No. 1 AND 2, AND BENT No. 1.

TOTAL BILL OF MATERIAL

	REMOVAL OF EXISTING STRUCTURE AT STA 13+24.00 -L-	ASBESTOS ASSESSMENT	PDA TESTING	UNCLASSIFIED STRUCTURE EXCAVATION	CLASS AA CONCRETE	BRIDGE APPROACH SLABS	EPOXY COATED REINFORCING STEEL	PILE DRIVING EQUIPMENT SETUP FOR 16" PRESTRESSED CONCRETE PILES
	LUMP SUM	LUMP SUM	EACH	LUMP SUM	CU. YDS.	LUMP SUM	LBS.	EACH
SUPERSTRUCTURE								
END BENT 1					13.7		1983	5
BENT 1					9.3		1909	7
END BENT 2					13.7		1983	5
TOTAL	LUMP SUM	LUMP SUM	1	LUMP SUM	36.7	LUMP SUM	5875	17

TOTAL BILL OF MATERIAL

	16" PRESTRESSED CONCRETE PILES		PILE REDRIVES	VERTICAL CONCRETE BARRIER RAILS	RIP RIP CLASS II (2'-0" THICK)	GEOTEXTILE FOR DRAINAGE	ELASTOMERIC BEARINGS	3'-0" X 1'-9" PRESTRESSED CORED SLABS		PREDRILLING FOR PILES
	No.	LIN. FT.	EACH	LIN. FT.	TON	SQ. YDS.	LUMP SUM	No.	LIN. FT.	LIN. FT.
SUPERSTRUCTURE				180				20	900	
END BENT 1	5	400	3	180	70	80				100
BENT 1	7	630	4	180						105
END BENT 2	5	375	3	180	70	80				100
TOTAL	17	1405	10	180	140	160	LUMP SUM	20	900	305

HYDRAULIC DATA

DESIGN DISCHARGE.....= 470 CFS.
 FREQUENCY OF DESIGN FLOOD.....= 25 YR.
 DESIGN HIGH WATER ELEVATION.....= 0.8 FT.
 DRAINAGE AREA.....= 2.92 SQ. MI.
 BASE FLOOD DISCHARGE (Q100).....= 700 CFS.
 BASE HIGH WATER ELEVATION.....= 1.56 FT.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE.....= 615 CFS
 FREQUENCY OF OVERTOPPING FLOOD.....= 50(+) YR.
 OVERTOPPING FLOOD ELEVATION.....= 1.0 FT.

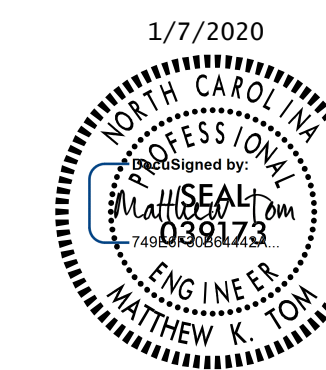
REVISED 1/10/2020

PROJECT NO. 17BP.1.R.63
 HYDE COUNTY
 STATION: 13+24.00 -L-

SHEET 2 OF 2 REPLACES BRIDGE No. 470036

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 GENERAL DRAWING
 FOR BRIDGE ON SR 1143
 OVER SMITH CREEK
 BETWEEN SR 1152 AND SR 1151
 27'-10" CLEAR ROADWAY - 90° SKEW

REVISION #1:
 UPDATED QUANTITIES



DRAWN BY : Z. H. BROWN DATE : 4/2/15
 CHECKED BY : K. H. COMPTON DATE : 4/20/15
 DESIGNED BY : M. K. TOM DATE : 5/27/14

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-2
1	MKT	1/7/20	3			TOTAL SHEETS
2			4			17