BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.

END BENT 1	END BENT 2
16" PRESTRESSED CONCRETE PILES NO: 7 LIN. FT. = 350	16" PRESTRESSED CONCRETE PILES NO: 7 LIN. FT. = 350
PILE REDRIVES EACH NO: 7	PILE REDRIVES EACH NO: 7

BILL OF MATERIAL
FOR ONE END BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	41'-0"	1115
B2	36	#4	STR	20'-7"	495
B3	10	#4	STR	2'-5"	16
D1	22	#6	STR	1'-6"	50
H1	48	#4	2	9'-4"	299
K1	16	#4	STR	2'-11"	31
S1	50	#4	3	13'-5"	448
S2	50	#4	4	3'-2"	106
S3	28	#4	5	8'-1"	151
V1	52	#4	STR	7'-8"	266

REINFORCING STEEL (FOR ONE END BENT) 2977 LBS.

CLASS A CONCRETE BREAKDOWN (FOR ONE END BENT)

POUR #1 CAP & LOWER PART OF WINGS ▲ 24.2 C.Y.

POUR #2 UPPER PART OF WINGS 2.1 C.Y.

TOTAL CLASS A CONCRETE 26.3 C.Y.

▲ CONCRETE DISPLACED BY THE 16" PRESTRESSED CONCRETE PILES HAS BEEN DEDUCTED FROM THE CONCRETE QUANTITY.

DETAIL "A"

(END BENT 1 SHOWN, END BENT 2 SIMILAR BY ROTATION)

SECTION A-A

PROJECT NO. 17BP.2.R.54
BEAUFORT COUNTY
STATION: 13+13.50 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1 & 2 DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 22008 ENGINEER A. KEITH PASCHAL
9-19-14

ASSEMBLED BY :	S. STRICKLAND	DATE : 4/14	
CHECKED BY :	P. N. HOLDER	DATE : 4/14	
DESIGN ENGINEER OF RECORD:	A. K. PASCHAL	DATE : 4/14	

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-12
1			3			TOTAL SHEETS
2			4			14

19-SEP-2014 11:18
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kpaschal