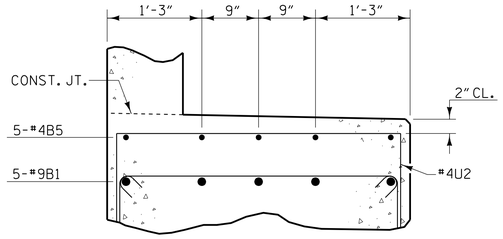
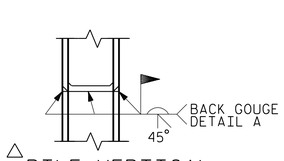
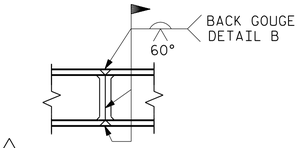


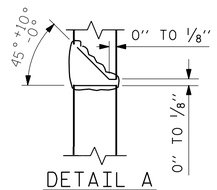
SECTION B-B



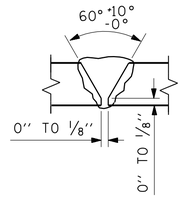
△ PILE VERTICAL



△ PILE HORIZONTAL OR VERTICAL



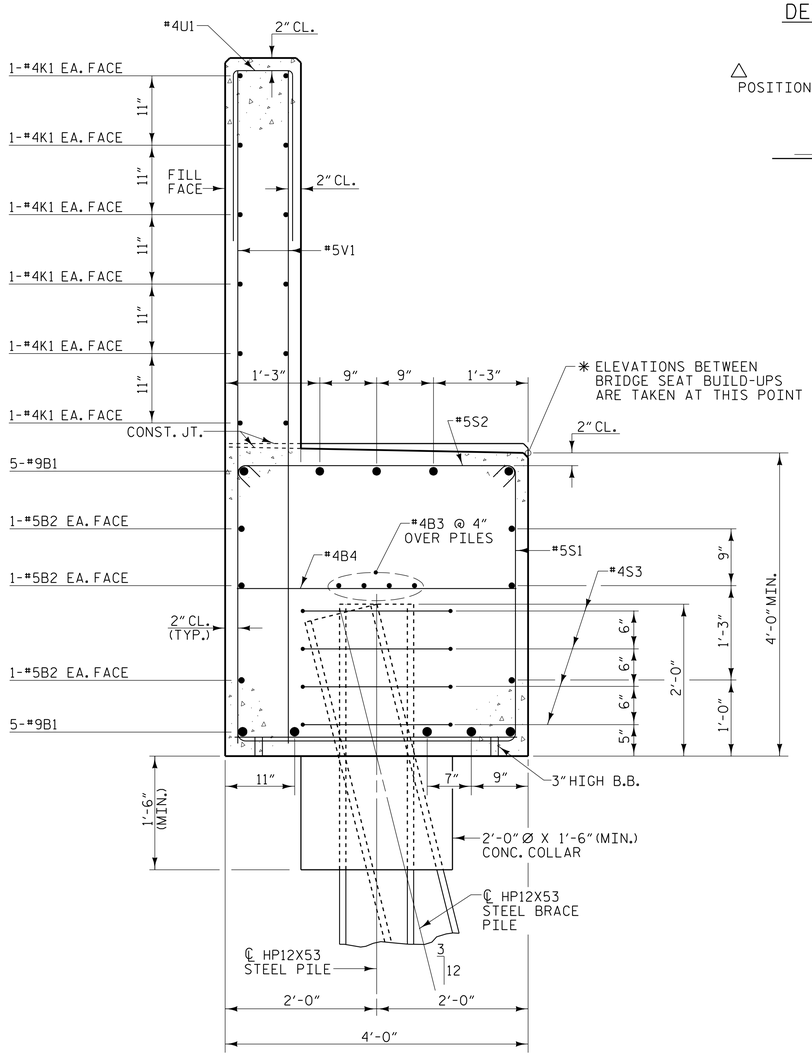
DETAIL A



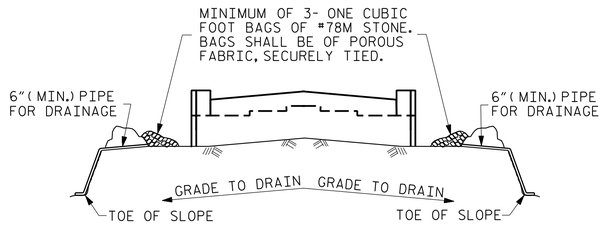
DETAIL B

△ POSITION OF PILE DURING WELDING.

PILE SPLICE DETAILS



SECTION A-A



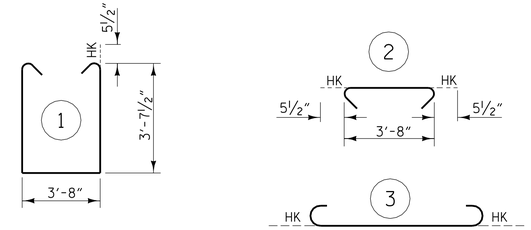
BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

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

BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	10	#9	3	53'-6"	1819
B2	6	#5	STR	51'-0"	319
B3	8	#4	STR	26'-10"	143
B4	13	#4	STR	3'-8"	32
B5	15	#4	STR	3'-0"	30
H1	21	#5	5	11'-3"	246
H2	21	#5	5	11'-4"	248
H3	8	#4	STR	3'-7"	19
H4	21	#5	4	13'-5"	294
H5	21	#5	4	13'-0"	285
K1	24	#4	STR	26'-10"	430
S1	69	#5	1	11'-10"	852
S2	69	#5	2	4'-7"	330
S3	32	#4	7	7'-7"	162
U1	43	#4	6	5'-2"	148
U2	12	#4	6	6'-8"	53
V1	86	#5	STR	8'-10"	792
V2	30	#5	STR	10'-8"	334
V3	10	#5	STR	10'-6"	110
V4	48	#5	STR	6'-4"	317

TOTAL REINFORCING STEEL	6963lbs.
CLASS "A" CONCRETE - CU. YARDS	
POUR 1 - CAP, COLLARS & LOWER WINGS	36.2 cu. yds.
POUR 2 - UPPER WINGS & BACKWALL	16.0 cu. yds.
TOTAL	52.2 cu. yds.
HP12X53 STEEL PILES	
8 PILES REQUIRED - LIN. FEET	600
PILE REDRIVES	4 EA.

PROJECT NO. W-5518

COLUMBUS COUNTY

STATION: 24+06.36 -L- POT

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-24
1			3			TOTAL SHEETS
2			4			33

DRAWN BY : W. B. ALLEN DATE : 2/15
CHECKED BY : Z. H. BROWN DATE : 3/15
DESIGN ENGINEER OF RECORD: L. K. AUSTIN DATE : 8/15

PLANS PREPARED BY:
MULKEY
ENGINEERS & CONSULTANTS
PO Box 33127
RALEIGH, N.C. 27636
(919) 851-1012
(919) 851-1918 (FAX)
WWW.MULKEYINC.COM
NC LICENSE NO. C-1021

NORTH CAROLINA PROFESSIONAL ENGINEER L. KEVIN AUSTIN
Docusigned by: L. Kevin Austin
10/2/2015

10/2/2015 1:43:47 PM R:\Structures\W5518_SMU_EI_03.dgn