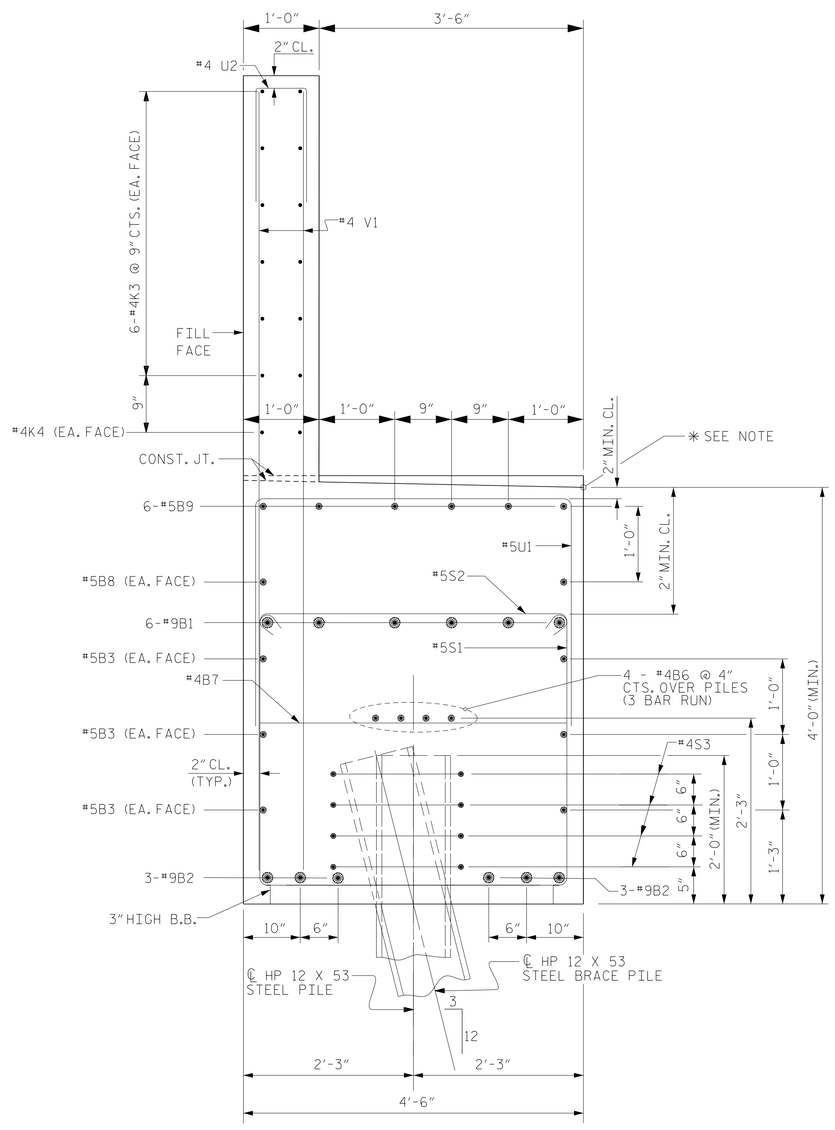
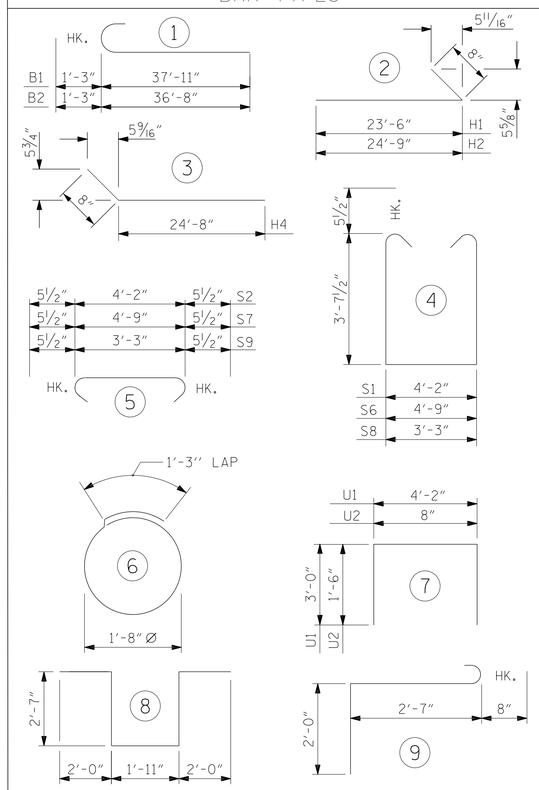


✳ NOTE: THE TOP SURFACE OF THE CAP EXCEPT THE BRIDGE SEAT BUILDUPS SHALL BE SLOPED TRANSVERSLY FROM THE FILL FACE TO THE BACK FACE AT THE RATE OF 2%.

SECTION A-A

(CONCRETE COLLAR NOT SHOWN FOR CLARITY.
SEE "CORROSION PROTECTION FOR STEEL PILES DETAIL", END BENT No.1 SHEET 3 OF 3.)

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

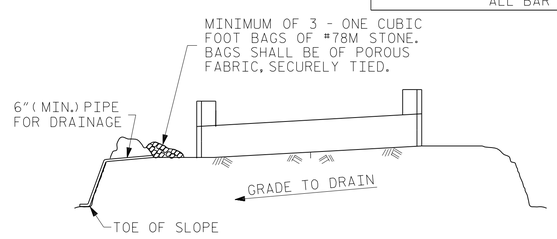
BILL OF MATERIAL FOR ONE END BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	12	#9	1	39'-2"	1598
B2	12	#9	1	37'-11"	1547
B3	12	#5	STR	35'-0"	438
B4	12	#5	STR	10'-0"	125
B5	6	#5	STR	8'-6"	53
B6	12	#4	STR	23'-4"	187
B7	15	#4	STR	4'-2"	42
B8	2	#5	STR	8'-0"	17
B9	6	#5	STR	16'-0"	100
H1	16	#5	2	24'-2"	403
H2	16	#5	2	25'-5"	424
H3	2	#5	STR	21'-0"	44
H4	30	#5	3	25'-4"	793
H5	2	#5	STR	22'-0"	46
K1	4	#4	STR	3'-7"	10
K2	4	#4	STR	3'-6"	9
K3	36	#4	STR	23'-10"	573
K4	2	#4	STR	8'-6"	11
K5	2	#4	STR	8'-0"	11
K6	2	#4	STR	7'-9"	10
K7	2	#4	STR	3'-9"	5
S1	65	#5	4	12'-4"	836
S2	65	#5	5	5'-1"	345
S3	32	#4	6	6'-6"	139
S4	6	#6	8	11'-1"	100
S5	6	#6	9	5'-3"	47
S6	1	#5	4	12'-11"	13
S7	1	#5	5	5'-8"	6
S8	1	#5	4	11'-5"	12
S9	1	#5	5	4'-2"	4
U1	32	#5	7	10'-2"	339
U2	58	#4	7	3'-8"	142
V1	118	#5	STR	9'-2"	1128
V2	10	#5	STR	11'-1"	116
V3	11	#5	STR	10'-6"	120
V4	8	#5	STR	11'-11"	99
V5	8	#5	STR	11'-10"	99
V6	8	#5	STR	11'-8"	97
V7	8	#5	STR	11'-6"	96
V8	8	#5	STR	11'-4"	95
V9	8	#5	STR	11'-2"	93
V10	8	#5	STR	10'-7"	88
V11	8	#5	STR	10'-9"	90
V12	8	#5	STR	10'-11"	91
V13	8	#5	STR	11'-0"	92
V14	8	#5	STR	11'-2"	93
V15	8	#5	STR	11'-4"	95
REINFORCING STEEL					10921 LBS.

CLASS A CONCRETE BREAKDOWN

POUR #1	CAP, LOWER PART OF WINGS & COLLARS	62.5 C.Y.
POUR #2	BACKWALL & UPPER PART OF WINGS	25.5 C.Y.
TOTAL CLASS A CONCRETE		88.0 C.Y.

HP 12 X 53 STEEL PILES
NO: 10 LIN. FT.= 600



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

PROJECT NO. I-0914BA
VANCE COUNTY
STATION: 21+34.80-Y5SBL-POC

SHEET 3 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 11725 ENGINEER DAVID R. RUGGLES

DocuSigned by: David Ruggles 11/14/2014
C462768DF412422...

DWG. 35 OF 40

STEWART
Firm License No. C-1051
421 Fayetteville St,
Suite 400
Raleigh, NC 27601
T 919.380.8750
www.stewartinc.com

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
END BENT No.2
DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-120
1			3			TOTAL SHEETS
2			4			177

DRAWN BY:	J. LOFTUS	DATE :	07/14
CHECKED BY:	D. RUGGLES	DATE :	08/14
DESIGN ENGINEER OF RECORD:	D. RUGGLES	DATE :	08/14

I-914BA SITE 3
11/14/2014 ...\403_035_I0914BA_SMU_2EB03.dgn
USER:jloftus