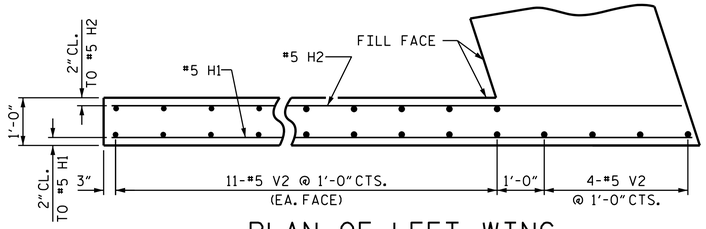
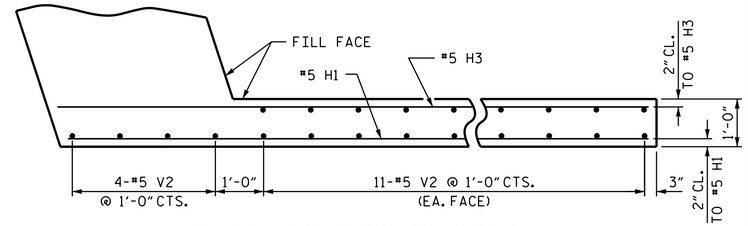
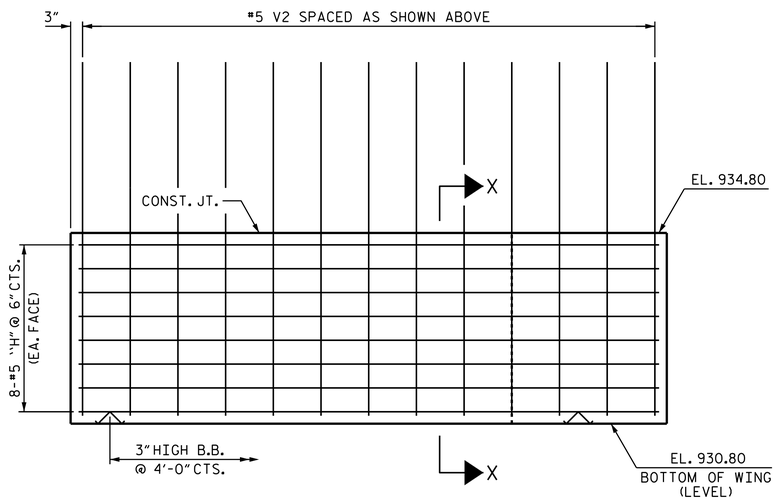


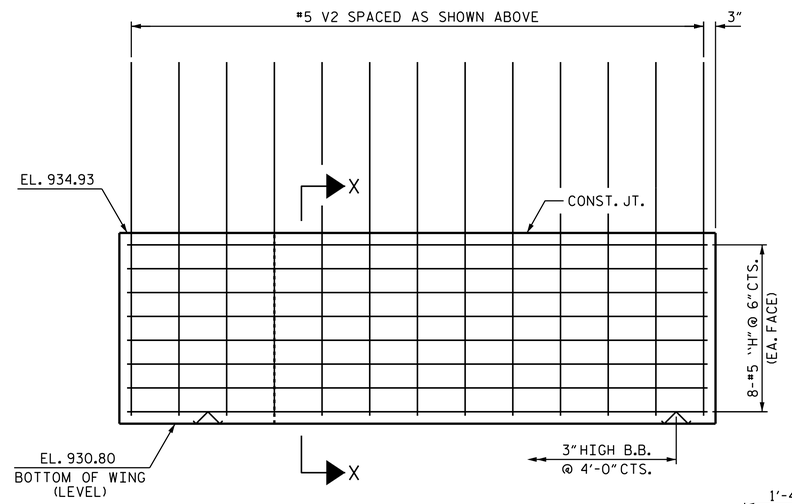
PLAN OF LEFT WING



PLAN OF RIGHT WING

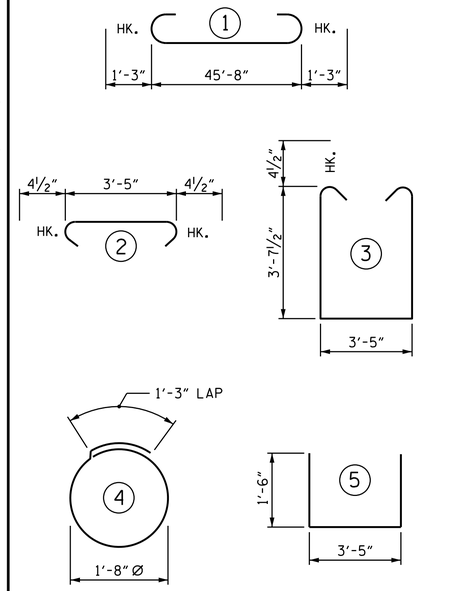


ELEVATION OF LEFT WING



ELEVATION OF RIGHT WING

BAR TYPES



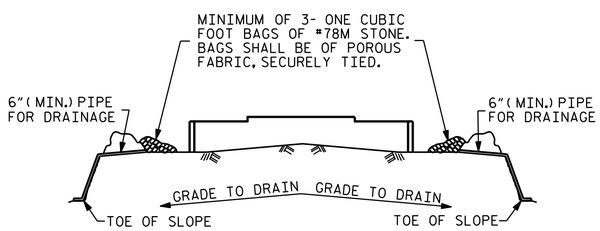
ALL BAR DIMENSIONS ARE OUT TO OUT.

BILL OF MATERIAL

END BENT 2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	8	#9	1	48'-2"	1310
B2	6	#5	STR	45'-9"	286
B3	8	#4	STR	24'-2"	129
B4	4	#4	STR	2'-2"	6
B5	12	#4	STR	3'-5"	27
H1	16	#5	STR	14'-1"	235
H2	8	#5	STR	13'-10"	115
H3	8	#5	STR	14'-5"	120
S1	58	#4	3	11'-5"	442
S2	58	#4	2	4'-2"	161
S3	32	#4	4	6'-6"	139
U1	3	#4	5	6'-5"	13
V1	74	#4	STR	6'-1"	301
V2	52	#5	STR	10'-10"	588

REINFORCING STEEL	LBS.	3,872
CLASS A CONCRETE	C.Y.	31.0
HP 12X53 STEEL PILES		
NO. 8	LIN. FT.	340
STEEL PILE POINTS	EA.	8

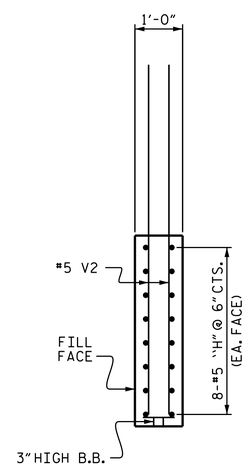


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

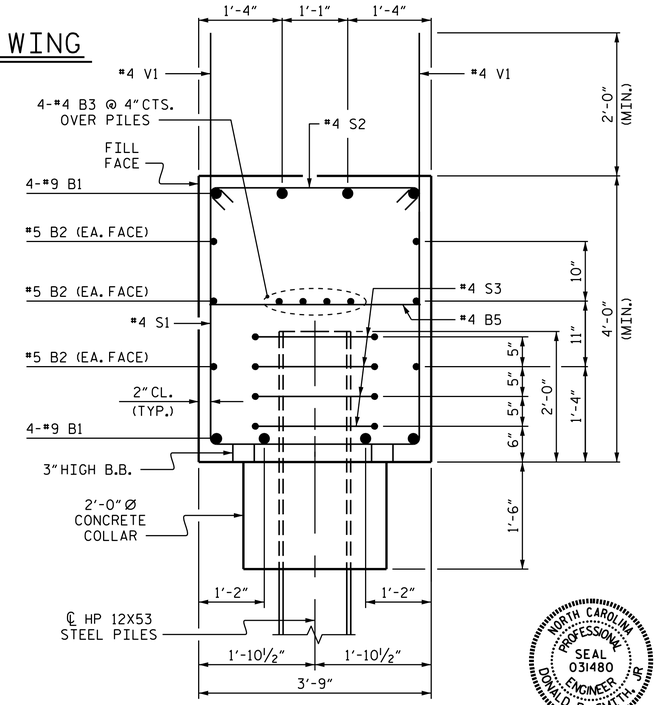
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR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



SECTION X-X



SECTION A-A

NORTH CAROLINA PROFESSIONAL SEAL 031480 ENGINEER DONALD R. SMITH, JR.

DocuSigned by: Donald R. Smith Jr. 43B435A14F38465... 7/30/2014

PROJECT NO. U-2579B

FORSYTH COUNTY

STATION: 516+31.30 -L-

SHEET 2 OF 2

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

INTEGRAL END BENT 2

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-61
1			3			TOTAL SHEETS
2			4			707

STR. #2

DRAWN BY : J.D. HAWK DATE : 1/15/14
CHECKED BY : M.K. BEARD DATE : 3/13/14
DESIGN ENGINEER OF RECORD: B.N. GRADY DATE : 6/5/14

29-JUL-2014 14:59
R:\Structures\Plans\Str02\U2579B_SD_E*_02.dgn
lsutton