PROJECT REFERENCE NO.	SHEET NO.
R-5206	2C-1

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

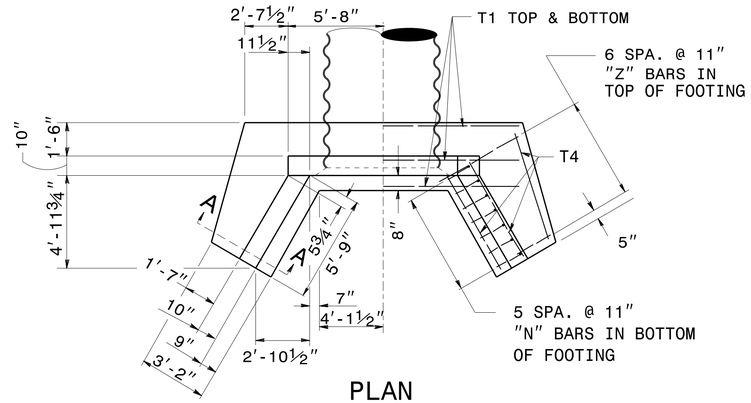
ENGLISH DETAIL DRAWING FOR

REINFORCED CONCRETE ENDWALL

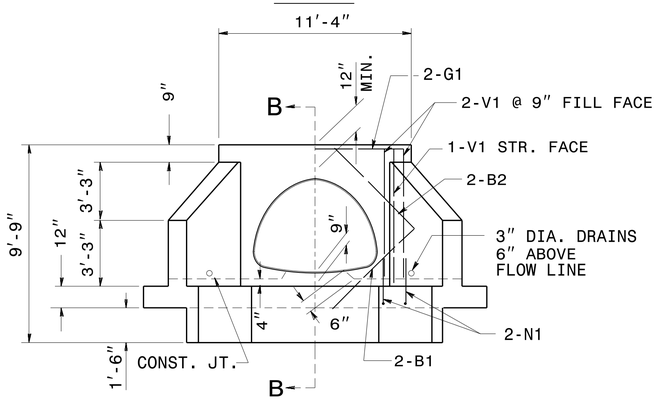
FOR 87″ X 63″ ARCH PIPE - 90° SKEW

SHEET 1 OF 1

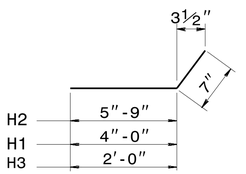
838D33



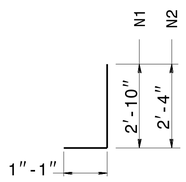
PLAN



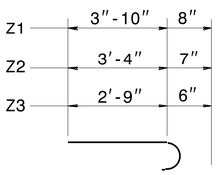
ELEVATION



"H" BARS

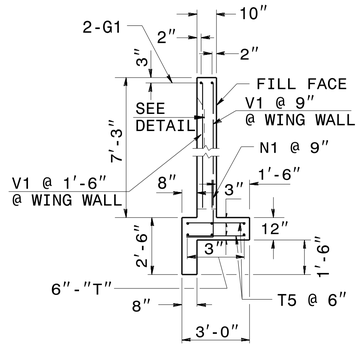


"N" BARS

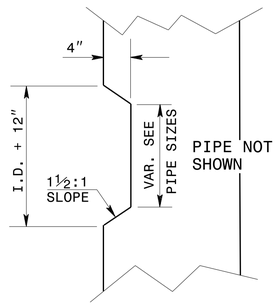


"Z" BARS

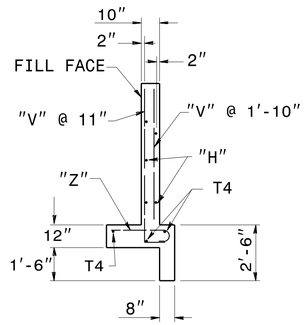
"H", "N", & "Z" BAR DIMENSIONS
ARE OUT TO OUT.



SECTION B-B
PIPE NOT SHOWN

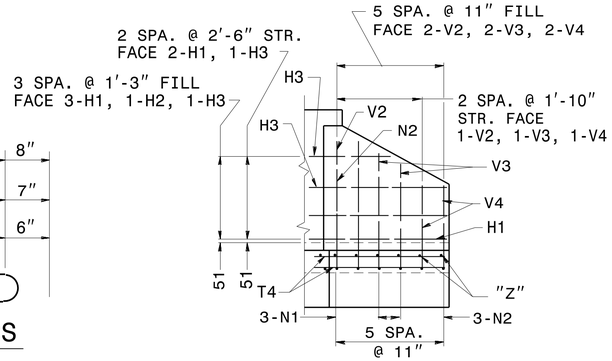


TAPER DETAIL



SECTION A-A

SEE STD. 838.45 FOR GENERAL NOTES.



WING ELEVATION

BILL OF MATERIAL FOR ENDWALL

REINF. STEEL			1 PIPE	
BAR	SIZE	LENGTH	NO.	WEIGHT
B1	#4	5′-6″	4	15
B2	#4	4′-6″	4	12
G1	#7	11′-5½″	2	47
H1	#4	6′-4″	10	42
H2	#4	4′-7″	2	6
H3	#4	2′-7″	4	7
N1	#5	3′-11″	10	41
N2	#4	3-5″	6	14
T1	#4	15′-11½″	6	64
T4	#4	6″-0″	6	24
T5	#4	2′-6″	38	63
V1	#4	6′-9″	6	27
V2	#4	5′-2″	6	21
V3	#4	4′-1″	6	16
V4	#4	2′-11″	6	12
Z1	#6	4′-6″	6	41
Z2	#5	3′-11″	4	16
Z3	#4	3′-3″	4	9
REINF. STEEL LBS.				477
CON./C.S. CU. YDS				7.5

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FOR 87″ X 63″ ARCH PIPE - 90° SKEW

SHEET 1 OF 1

838D33

NORTH CAROLINA PROFESSIONAL SEAL 022966 ENGINEER Joel S. Howerton
Joel S. Howerton
449E8E25522144F...
6/22/2015

CONTRACT STANDARDS & DEVELOPMENT UNIT
STANDARDS AND SPECIAL DESIGN
Office 919-250-4128 FAX 919-250-4119

SEE PLATE FOR TITLE

ORIGINAL BY: _____ DATE: _____
MODIFIED BY: kkempf DATE: 4-30-15
CHECKED BY: _____ DATE: _____
FILE SPEC.: kkempf/english/R5206archendwall 87x63 90sk.dgn

$$$$$$SYSTIME$$$$$$
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