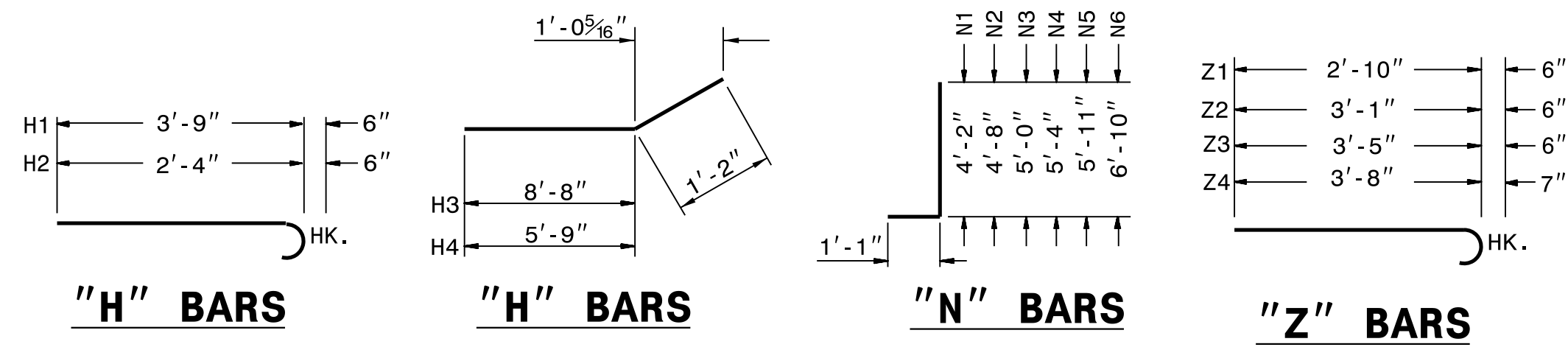
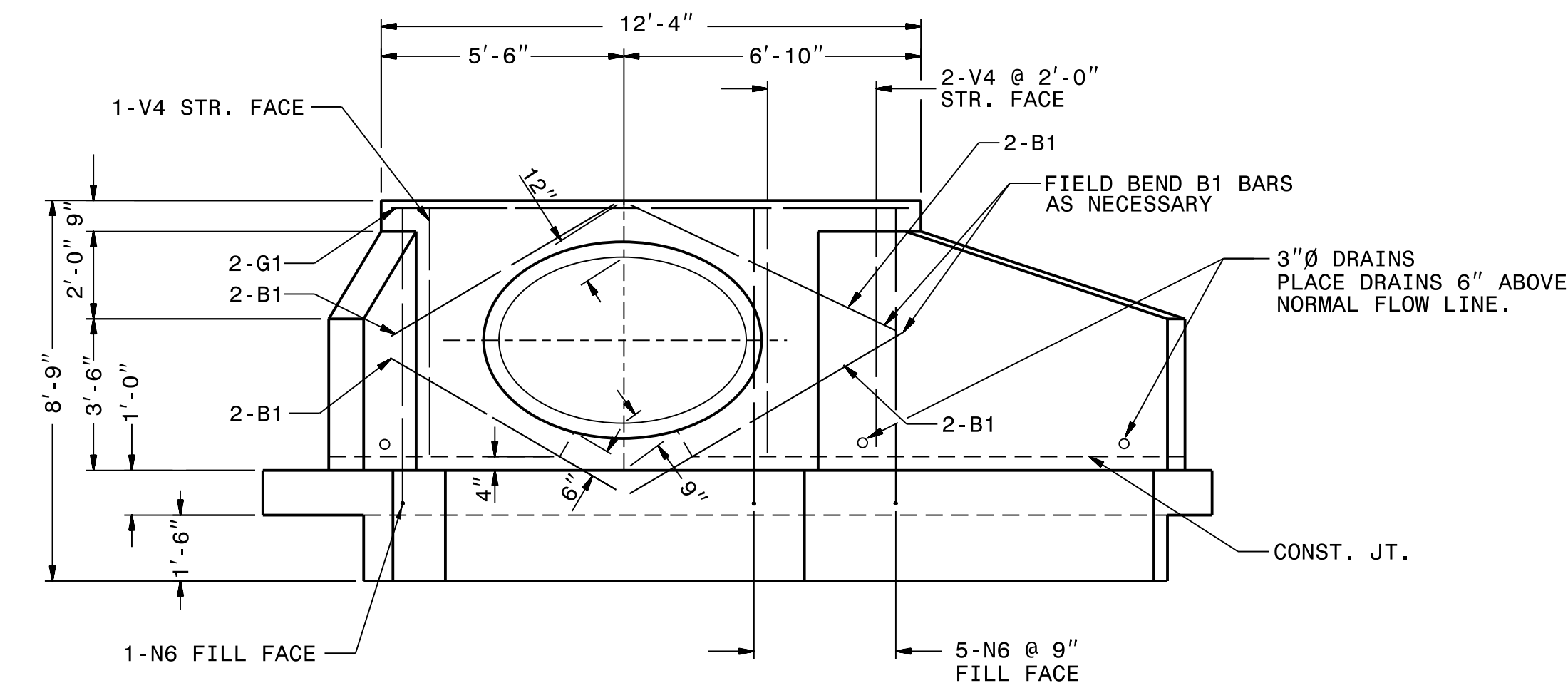
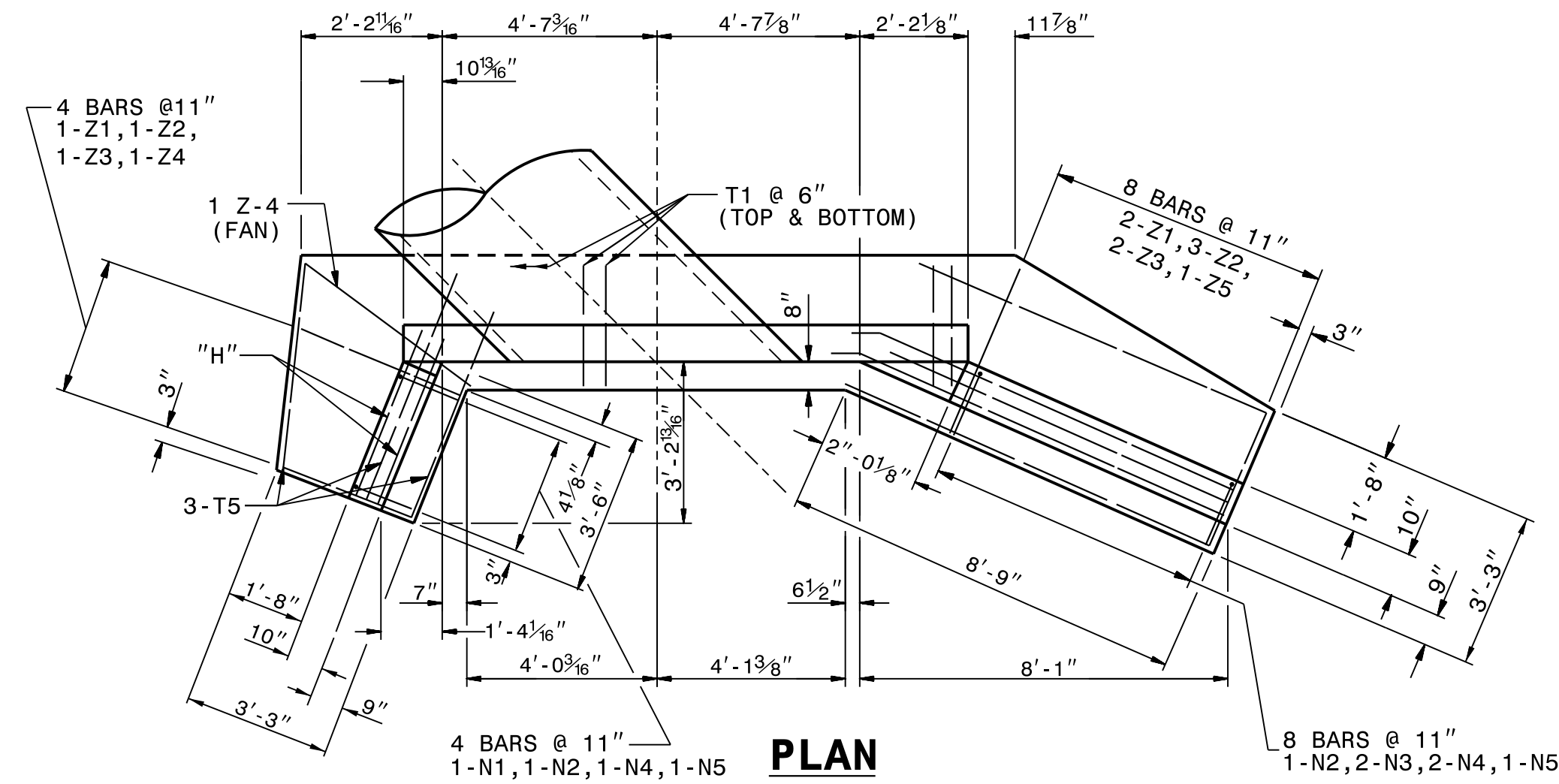


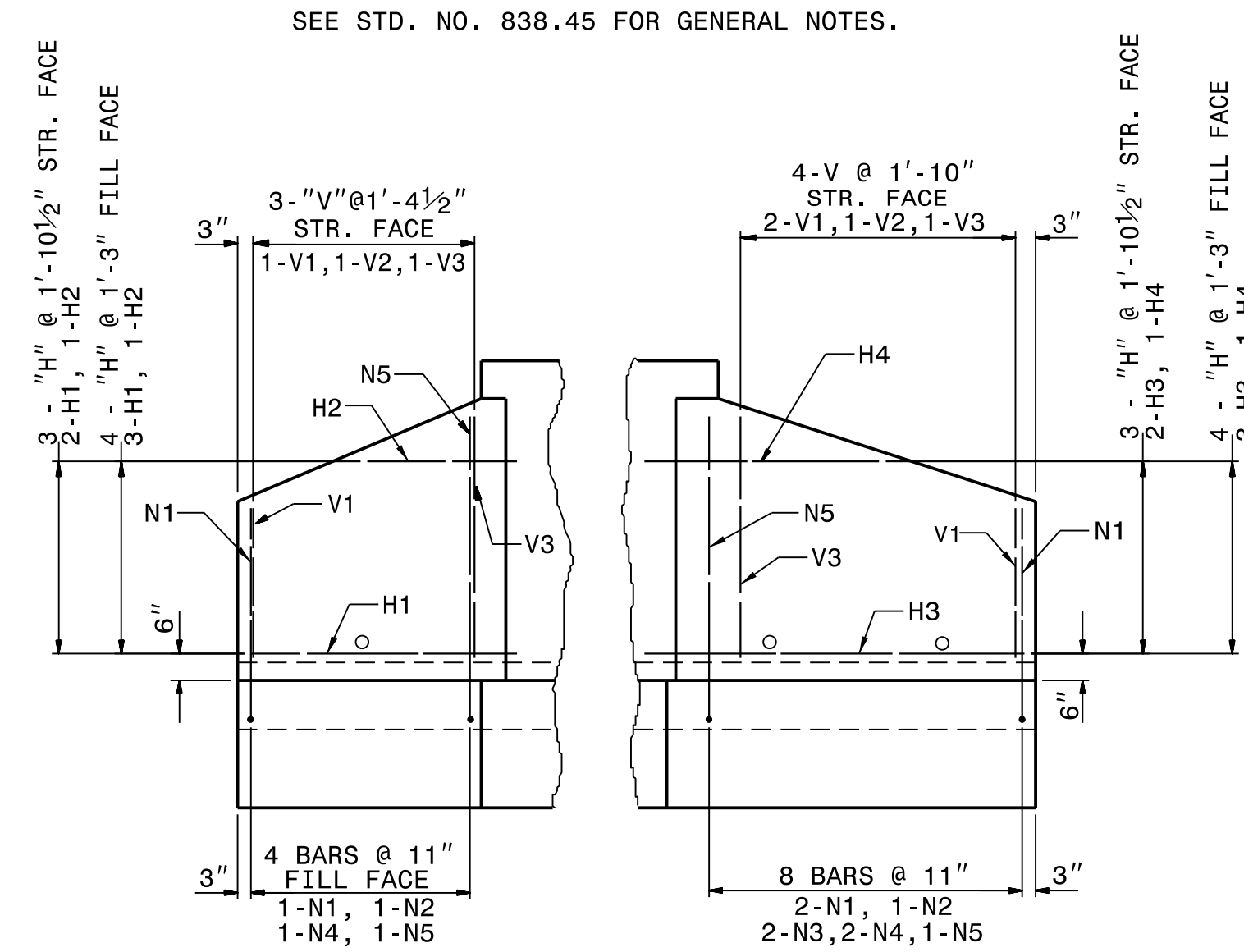
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
REINFORCED CONCRETE ENDWALL
FOR 54" PIPE 45° OR 135° SKEW

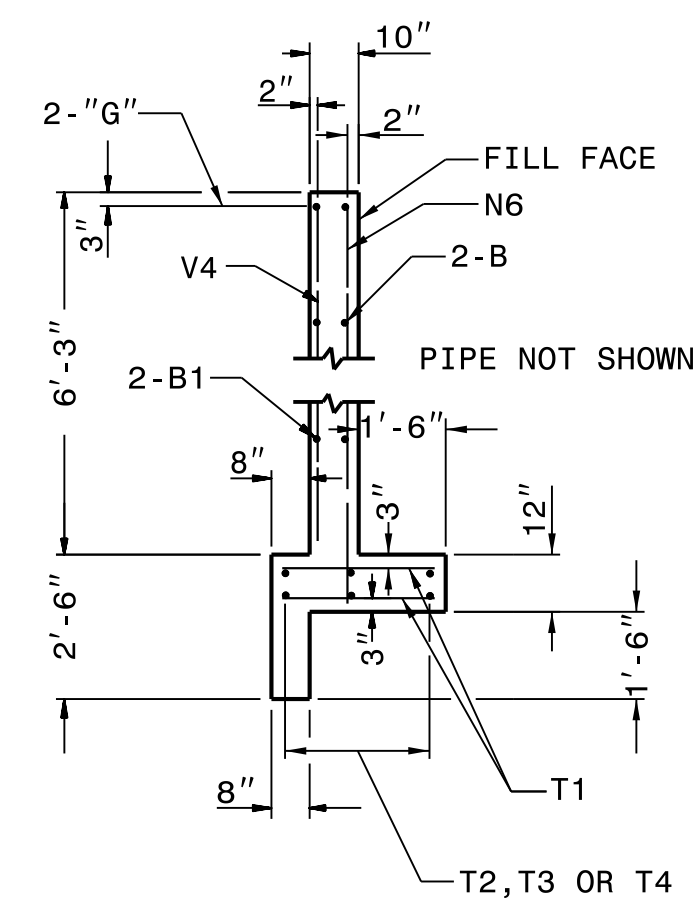
SHEET 1 OF 1
838D25



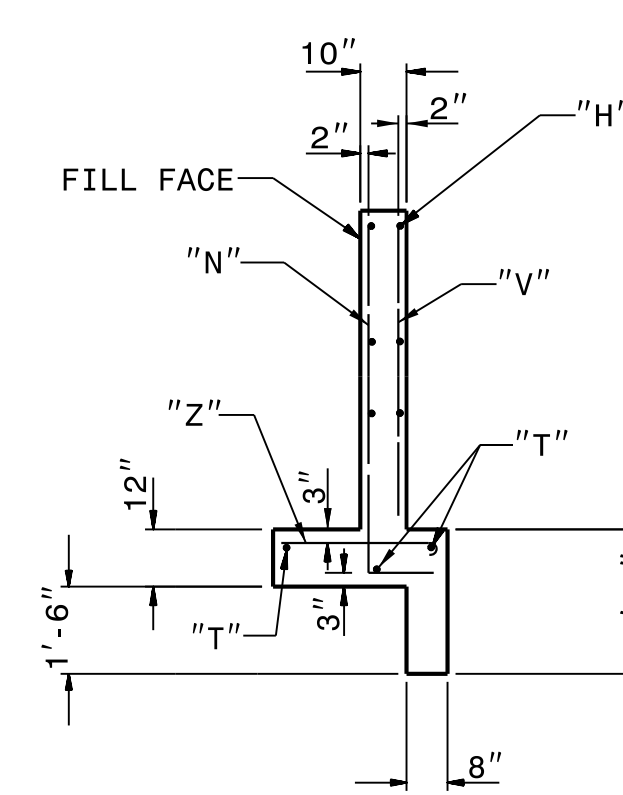
"H", "N", & "Z" BAR DIMENSIONS ARE OUT TO OUT.



WING ELEVATION



SECTION - BB



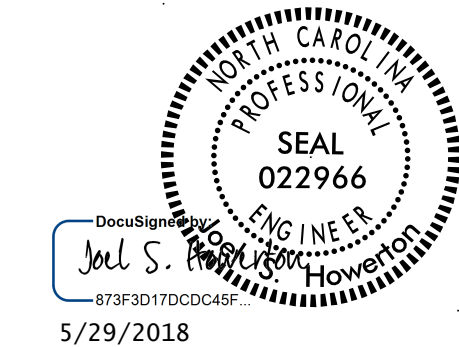
SECTION - AA

BILL OF MATERIAL FOR ENDWALLS					
REINFORCING STEEL					
BAR	SIZE	LENGTH	NO.	WEIGHT	
Z1	#4	3'-4"	3	7	
Z2	#4	3'-7"	4	10	
Z3	#4	3'-11"	3	8	
Z4	#5	4'-3"	3	13	
N1	#4	5'-3"	3	11	
N2	#4	5'-9"	2	8	
N3	#4	6'-1"	2	8	
N4	#4	6'-5"	3	13	
N5	#5	7'-0"	2	15	
N6	#4	7'-11"	6	32	
V1	#4	3'-1"	3	6	
V2	#4	3'-11"	2	5	
V3	#4	4'-8"	2	6	
V4	#4	5'-9"	3	12	
H1	#4	4'-3"	5	14	
H2	#4	2'-10"	2	4	
H3	#4	9'-10"	5	33	
H4	#4	6'-11"	2	9	
G1	#7	12'-0"	2	49	
T1	#4	2'-6"	50	84	
T2	#4	15'-2"	6	61	
T5	#4	4'-3"	3	9	
T6	#4	8'-0"	3	16	
B1	#4	5'-9"	8	31	
REINF. STEEL LBS.				464	
CONC./C.M. CU. YDS.				6.9	
CONC./R.C. CU. YDS.				6.6	

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SHEET 1 OF 1
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5/29/2018

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

CONTRACT STANDARDS AND DEVELOPMENT UNIT
Office 919-707-6950 FAX 919-250-4119

SEE PLATE FOR TITLE

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MODIFIED BY: E. Ward	DATE: 10-25-03
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