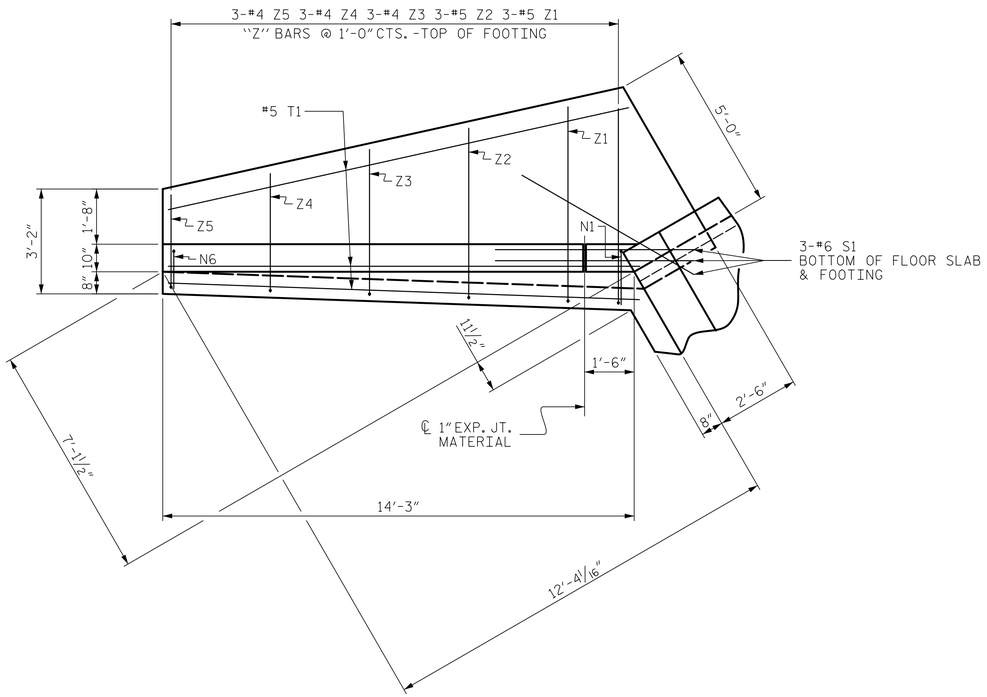
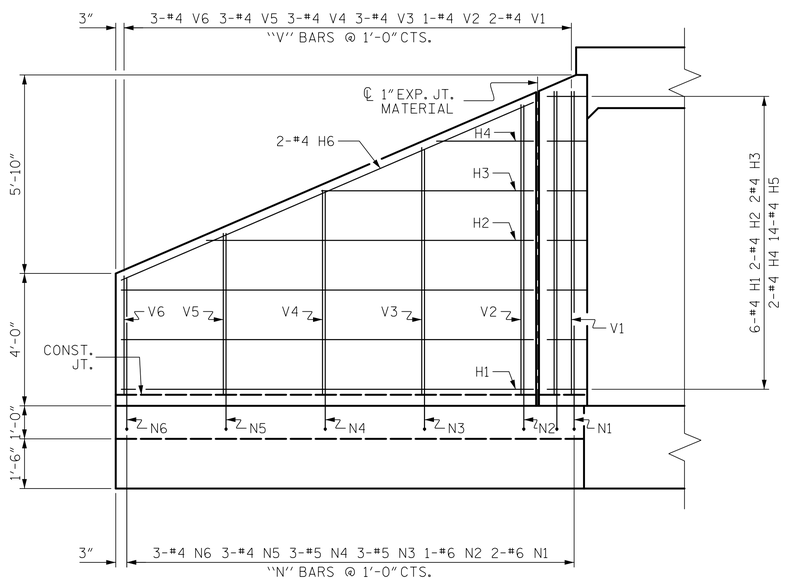
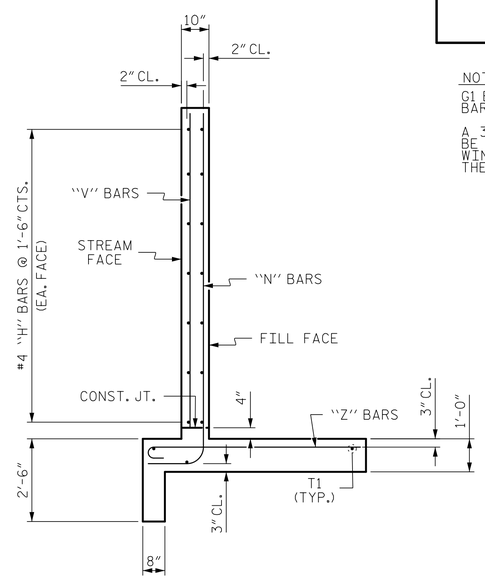


PLAN

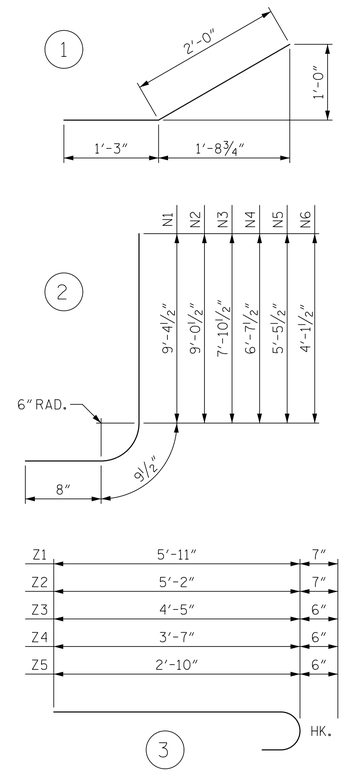


ELEVATION



TYPICAL WING SECTION

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

NOTES

G1 BARS IN HEADWALL ARE INCLUDED IN BARREL REINFORCING.

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	12	#4	STR	12'-4"	99
H2	4	#4	STR	9'-10"	26
H3	4	#4	STR	6'-2"	16
H4	4	#4	STR	2'-6"	7
H5	28	#4	1	3'-3"	61
H6	4	#4	STR	13'-4"	36
N1	4	#6	2	10'-10"	65
N2	2	#6	2	10'-6"	32
N3	6	#5	2	9'-4"	58
N4	6	#5	2	8'-1"	51
N5	6	#4	2	6'-11"	28
N6	6	#4	2	5'-7"	22
S1	6	#6	STR	6'-0"	54
T1	6	#5	STR	14'-3"	89
V1	4	#4	STR	8'-10"	24
V2	2	#4	STR	8'-6"	11
V3	6	#4	STR	7'-3"	29
V4	6	#4	STR	6'-1"	24
V5	6	#4	STR	4'-10"	19
V6	6	#4	STR	3'-7"	14
Z1	6	#5	3	6'-6"	41
Z2	6	#5	3	5'-9"	36
Z3	6	#4	3	4'-11"	20
Z4	6	#4	3	4'-1"	16
Z5	6	#4	3	3'-4"	13

REINFORCING STEEL
FOR 2 WINGS 891 LBS

CLASS A CONCRETE
2 WINGS 13.1 CY
1 HEADWALL 0.6 CY
1 END CURTAIN WALL 0.7 CY
TOTAL 14.4 CY

PROJECT NO. R-5739
NORTHAMPTON COUNTY
STATION: 324+27.00 -L-

SHEET 10 OF 10

NORTH CAROLINA PROFESSIONAL SEAL 20125 ENGINEER MARSHALL A. THEIS, JR.
Marshall A. Theis, Jr.
5FBCC2F3A4DC413...
7/23/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TGS ENGINEERS
706 HILLSBOROUGH STREET
SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

OUTLET WINGS FOR CONCRETE BOX CULVERT

H = 9'-0" SLOPE = 2:1
90° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C3-10
1			3			TOTAL SHEETS
2			4			10

STR. #3 STD. NO. CW9009

ASSEMBLED BY :	ZCS	DATE :	6/22
CHECKED BY :	MGC	DATE :	7/22
DRAWN BY : CCJ	10/99	REV. 6/19	MAA/THC
CHECKED BY : RWW	03/00		

3/24/2023
X:\NCDOT\R-5739\Structures\Str.#3 (324 + 27.00 -L-)\FinalPlans\DGNs\R-5739_SMU_ CU_650000.dgn
User:ZSmith