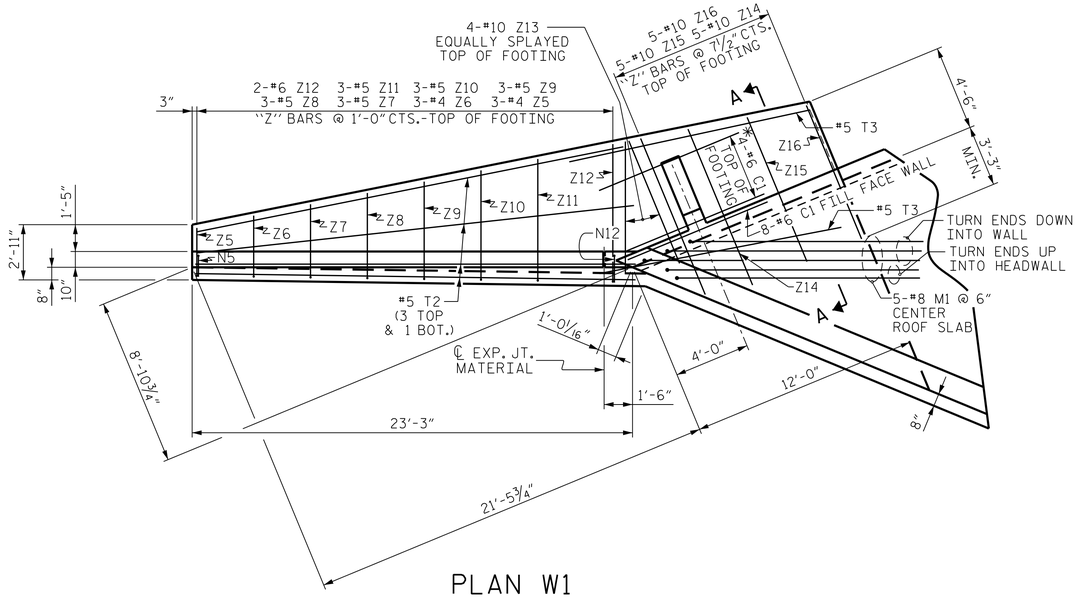
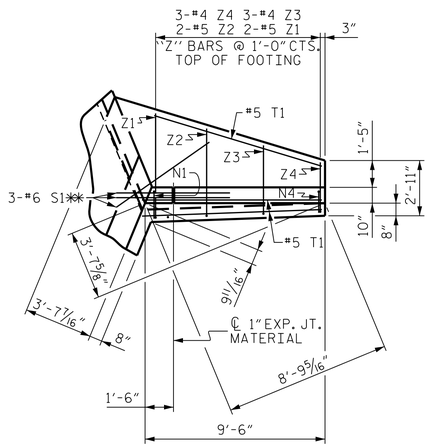


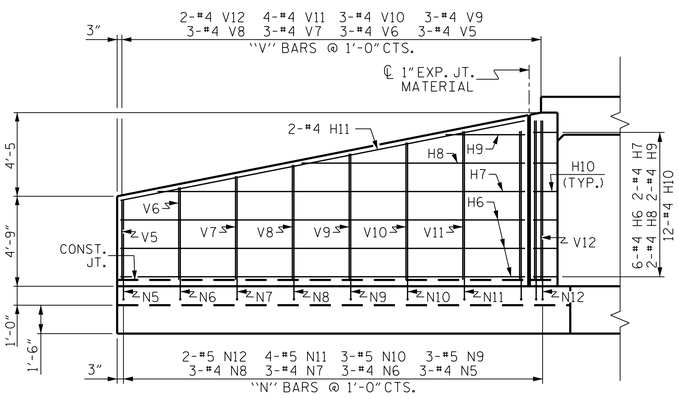
PLAN W1

✱ CENTER ALL #6 C1 BARS ON ℄ COUNTERFORT

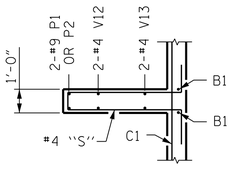


✱✱ S1 BARS @ BOTTOM OF FLOOR SLAB & FOOTING

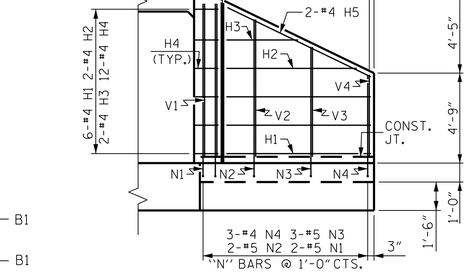
PLAN W2



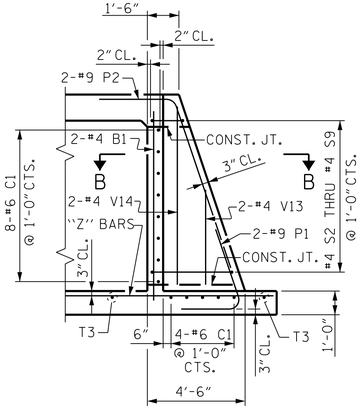
ELEVATION W1



SECTION B-B

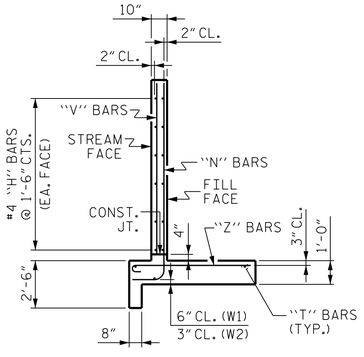


ELEVATION W2



SECTION A-A

STANDARD REINFORCING STEEL IN BARREL NOT SHOWN



WING SECTION

BILL OF MATERIAL

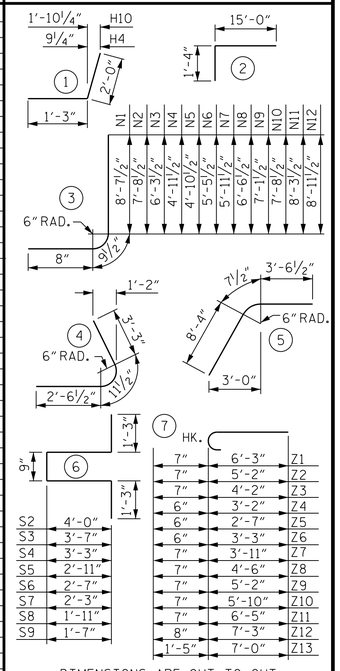
LONG WING W1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#4	STR	9'-0"	24
C1	24	#6	STR	8'-0"	288
H6	12	#4	STR	24'-1"	171
H7	4	#4	STR	19'-4"	52
H8	4	#4	STR	11'-5"	31
H9	4	#4	STR	3'-6"	9
H10	24	#4	1	3'-3"	52
H11	4	#4	STR	21'-9"	58
M1	10	#8	2	16'-4"	436
N5	6	#4	3	6'-4"	25
N6	6	#4	3	6'-11"	28
N7	6	#4	3	7'-5"	30
N8	6	#4	3	8'-0"	32
N9	6	#5	3	8'-7"	54
N10	6	#5	3	9'-2"	57
N11	8	#5	3	9'-9"	81
N12	4	#5	3	10'-5"	43
P1	4	#9	4	6'-9"	92
P2	4	#9	5	12'-6"	170
S2	2	#4	6	11'-3"	15
S3	2	#4	6	10'-5"	14
S4	2	#4	6	9'-9"	13
S5	2	#4	6	9'-1"	12
S6	2	#4	6	8'-5"	11
S7	2	#4	6	7'-9"	10
S8	2	#4	6	7'-1"	9
S9	2	#4	6	6'-5"	9
T2	8	#5	STR	23'-3"	194
T3	4	#5	STR	12'-0"	50
V5	6	#4	STR	4'-3"	17
V6	6	#4	STR	4'-10"	19
V7	6	#4	STR	5'-5"	22
V8	6	#4	STR	6'-0"	24
V9	6	#4	STR	6'-6"	26
V10	6	#4	STR	7'-1"	28
V11	8	#4	STR	7'-8"	41
V12	4	#4	STR	8'-5"	22
V13	4	#4	STR	4'-0"	11
V14	4	#4	STR	8'-0"	21
Z5	6	#4	7	3'-1"	12
Z6	6	#4	7	3'-9"	15
Z7	6	#5	7	4'-6"	28
Z8	6	#5	7	5'-1"	32
Z9	6	#5	7	5'-9"	36
Z10	6	#5	7	6'-5"	40
Z11	6	#5	7	7'-0"	44
Z12	4	#6	7	7'-11"	48
Z13	8	#10	7	8'-5"	290
Z14	10	#10	STR	8'-11"	384
Z15	10	#10	STR	8'-3"	355
Z16	10	#10	STR	7'-8"	330
REINFORCING STEEL FOR 2 W1 WINGS					3,915 LBS.

SHORT WING W2

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	12	#4	STR	7'-7"	61
H2	4	#4	STR	6'-10"	18
H3	4	#4	STR	3'-7"	10
H4	24	#4	1	3'-3"	52
H5	4	#4	STR	8'-5"	22
N1	4	#5	3	10'-1"	42
N2	4	#5	3	9'-2"	38
N3	6	#5	3	7'-9"	48
N4	6	#4	3	6'-5"	26
S1	6	#6	STR	6'-0"	54
T1	6	#5	STR	9'-6"	59
V1	4	#4	STR	8'-1"	22
V2	4	#4	STR	7'-1"	19
V3	6	#4	STR	5'-9"	23
V4	6	#4	STR	4'-4"	17
Z1	4	#5	7	5'-11"	25
Z2	4	#5	7	5'-3"	22
Z3	6	#4	7	4'-2"	17
Z4	6	#4	7	3'-2"	13
REINFORCING STEEL FOR 2 W2 WINGS					588 LBS.

BAR TYPES



DIMENSIONS ARE OUT TO OUT

WING QUANTITES

REINFORCING STEEL FOR 4 WINGS	4,503 LBS.
CLASS A CONCRETE	
4 WINGS	35.6 C.Y.
TOTAL	35.6 C.Y.

PROJECT NO. R-5861

CHEROKEE COUNTY

STATION: 71+92.10 -L-

SHEET 13 OF 15

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

WINGS FOR
CONCRETE BOX CULVERT
H = 8'-0" SLOPE : 2:1

CULVERT NO. 06

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8/31/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	CU_6-13
1			3			TOTAL SHEETS
2			4			15

DRAWN BY :	A. J. WOLCOTT	DATE : JUL 2023
CHECKED BY :	R. V. KEITH	DATE : JUL 2023
DESIGN ENGINEER OF RECORD :	R. V. KEITH	DATE : JUL 2023

tboyd
8/31/2023 R:\Structures\Culverts\Culvert 6 - CobbCreek\DGN\FinalVR-5861_SMU_CU_6-13_190003.dgn