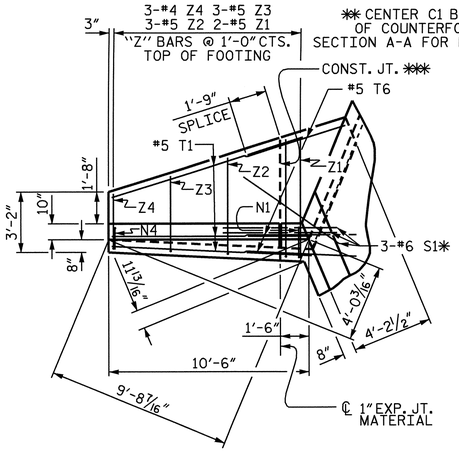
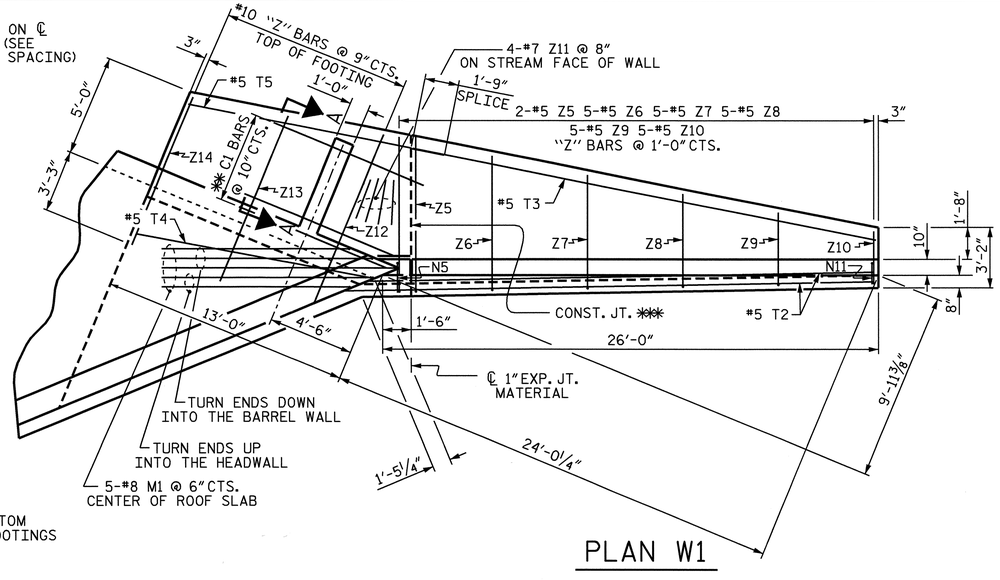
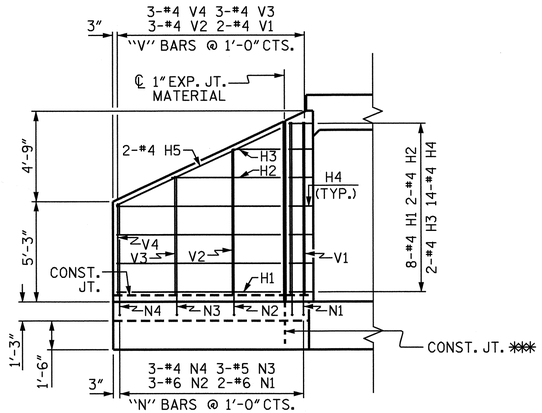


PLAN W2

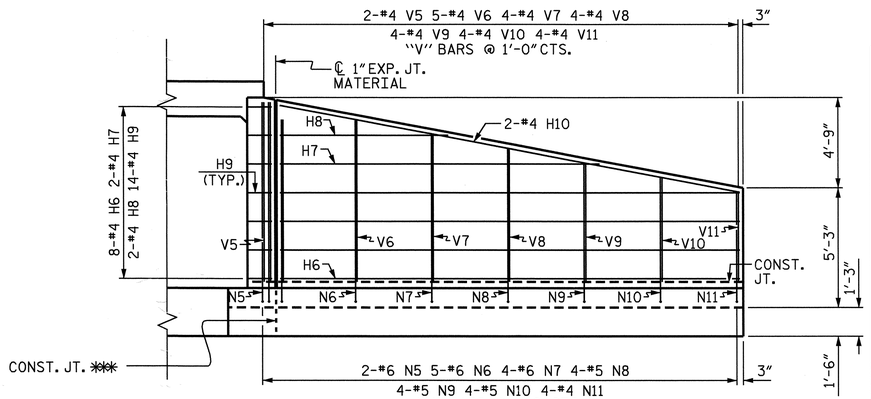


PLAN W1

✱ S1 BARS @ BOTTOM OF FLOOR SLAB & FOOTINGS

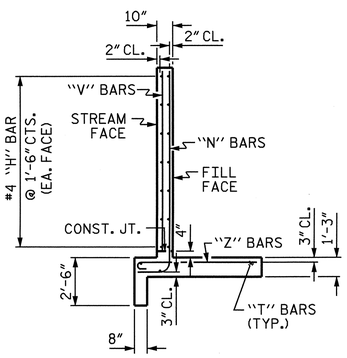


ELEVATION W2

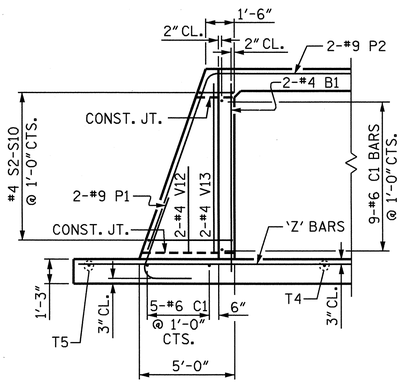


ELEVATION W1

✱✱✱ CONST. JT. ONLY APPLIES TO WINGS ALONG THE EAST SIDE OF THE CULVERT.



TYPICAL WING SECTION



SECTION A-A

NOTE: STANDARD REINFORCING STEEL IN BARREL NOT SHOWN

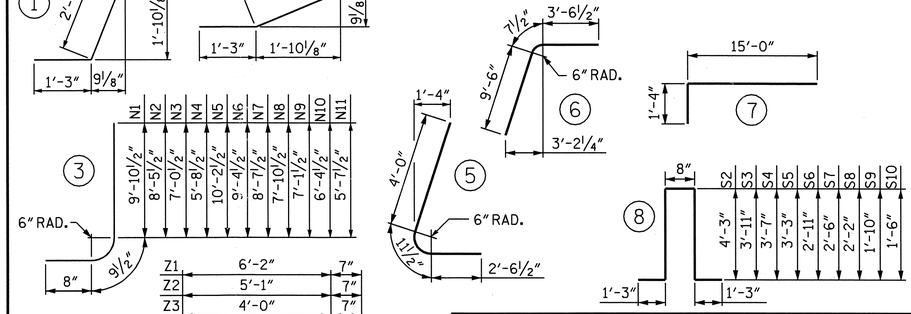
BILL OF MATERIAL

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#4	STR	10'-0"	27	S8	2	#4	8	7'-6"	10
						S9	2	#4	8	6'-10"	9
C1	28	#6	STR	9'-0"	379	S10	2	#4	8	6'-2"	8
H1	16	#4	STR	8'-7"	92	T1	6	#5	STR	8'-9"	55
H2	4	#4	STR	5'-8"	15	T2	4	#5	STR	24'-3"	101
H3	4	#4	STR	2'-6"	7	T3	2	#5	STR	24'-6"	51
H4	28	#4	1	3'-3"	61	T4	2	#5	STR	14'-0"	29
H5	4	#4	STR	9'-6"	25	T5	2	#5	STR	14'-9"	31
H6	16	#4	STR	24'-1"	257	T6	6	#5	STR	5'-9"	36
H7	4	#4	STR	16'-9"	45						
H8	4	#4	STR	8'-10"	24	V1	4	#4	STR	9'-1"	24
H9	28	#4	2	3'-3"	61	V2	6	#4	STR	7'-8"	31
H10	4	#4	STR	24'-6"	65	V3	6	#4	STR	6'-3"	25
						V4	6	#4	STR	4'-10"	19
M1	10	#8	7	16'-4"	436	V5	4	#4	STR	9'-5"	25
						V6	10	#4	STR	8'-6"	57
N1	4	#6	3	11'-4"	68	V7	8	#4	STR	7'-9"	41
N2	6	#6	3	9'-11"	89	V8	8	#4	STR	7'-0"	37
N3	6	#5	3	8'-6"	53	V9	8	#4	STR	6'-3"	33
N4	6	#4	3	7'-2"	29	V10	8	#4	STR	5'-6"	29
N5	4	#6	3	11'-8"	70	V11	8	#4	STR	4'-9"	25
N6	10	#6	3	10'-10"	163	V12	4	#4	STR	4'-5"	12
N7	8	#6	3	10'-1"	121	V13	4	#4	STR	8'-8"	23
N8	8	#5	3	9'-4"	78						
N9	8	#5	3	8'-7"	72	Z1	4	#5	4	6'-9"	28
N10	8	#5	3	7'-10"	65	Z2	6	#5	4	5'-8"	35
N11	8	#4	3	7'-1"	38	Z3	6	#5	4	4'-7"	29
						Z4	6	#4	4	3'-5"	14
P1	4	#9	5	7'-6"	102	Z5	4	#5	4	8'-8"	36
P2	4	#9	6	13'-8"	186	Z6	10	#5	4	7'-7"	79
						Z7	10	#5	4	6'-5"	67
S1	6	#6	STR	6'-0"	54	Z8	10	#5	4	5'-5"	56
S2	2	#4	8	11'-8"	16	Z9	10	#4	4	4'-3"	28
S3	2	#4	8	11'-0"	15	Z10	10	#4	4	3'-3"	22
S4	2	#4	8	10'-4"	14	Z11	8	#7	STR	9'-6"	155
S5	2	#4	8	9'-8"	13	Z12	8	#10	STR	9'-7"	330
S6	2	#4	8	9'-0"	12	Z13	10	#10	STR	8'-9"	377
S7	2	#4	8	8'-2"	11	Z14	10	#10	STR	8'-1"	348

CLASS A CONCRETE	
4 WINGS	49.0 CY
2 HEADWALLS	4.3 CY
2 END CURTAIN WALLS	5.2 CY
TOTAL	58.5 CY

REINFORCING STEEL FOR 4 WINGS 5079 LBS

BAR TYPES



ALL DIMENSIONS ARE OUT TO OUT.

PROJECT NO. B-3651

GUILFORD COUNTY

STATION: 17+06.68 -L-

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

WINGS FOR CONCRETE BOX CULVERT

H = 9'-0" SLOPE = 2 :1

135° SKEW

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

NORTH CAROLINA PROFESSIONAL SEAL 11259 ENGINEER DAVID R. ANDERSON
3-30-04

DRAWN BY : J. L. WALTON DATE : 10/6/03
CHECKED BY : M.A. ALLEN DATE : 2/4/04

11-MAR-2004 09:10
W:\SquadM\b3651\jwalton\B-3651_sd_CU_01.dgn
jwalton