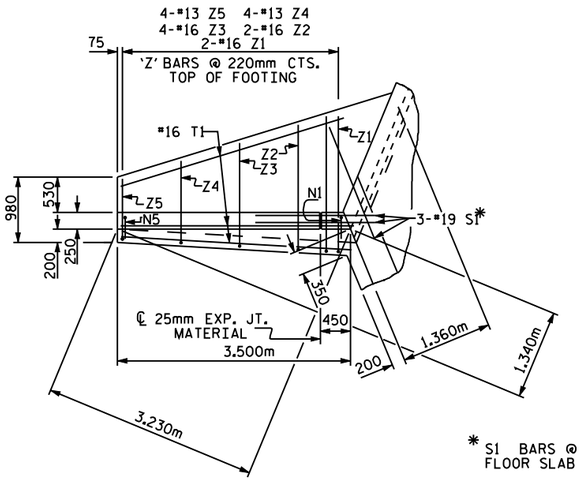
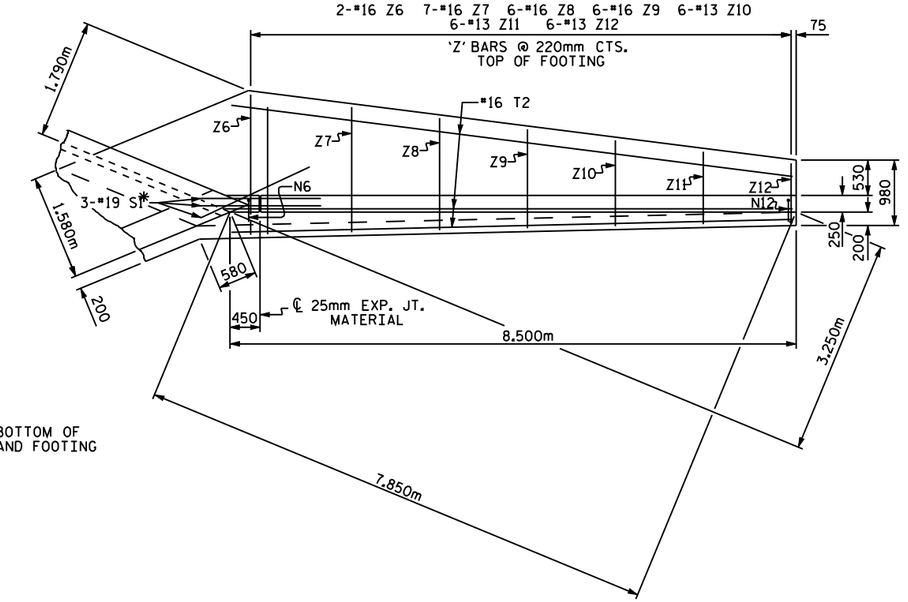
$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$



PLAN W2

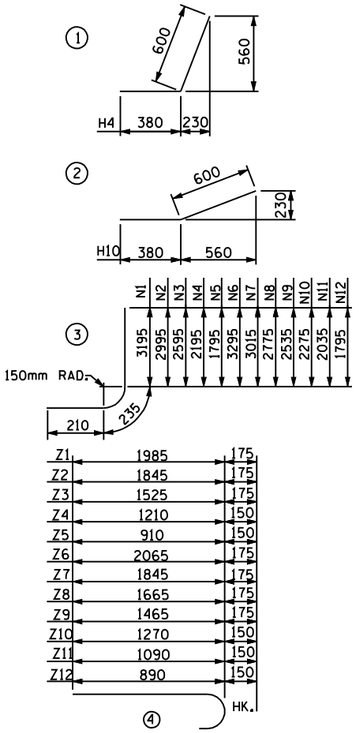


PLAN W1

* S1 BARS @ BOTTOM OF FLOOR SLAB AND FOOTING

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.

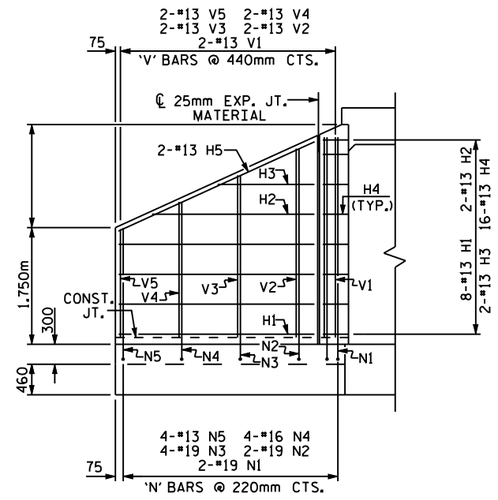


BILL OF MATERIAL

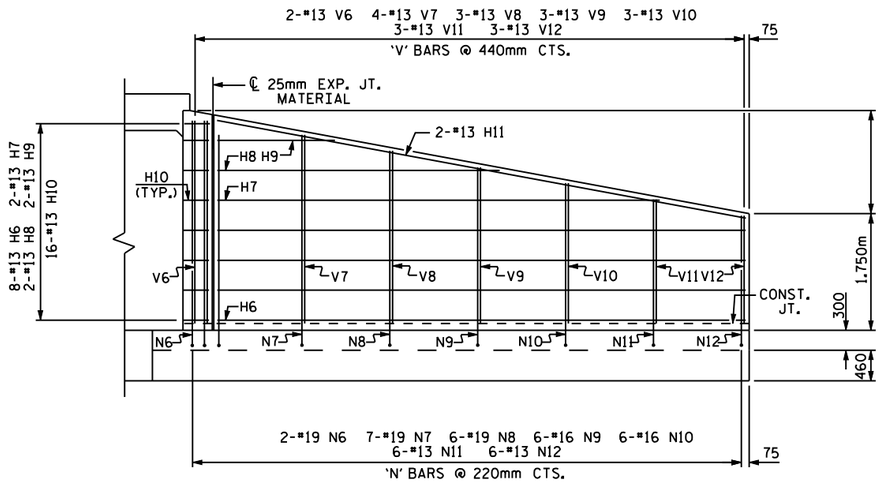
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	16	13	STR	2940	47
H2	4	13	STR	2420	10
H3	4	13	STR	1420	6
H4	32	13	1	980	31
H5	4	13	STR	3220	13
H6	16	13	STR	7940	126
H7	4	13	STR	6780	27
H8	4	13	STR	4380	17
H9	4	13	STR	1980	8
H10	32	13	2	980	31
H11	4	13	STR	8060	32
N1	4	19	3	3640	33
N2	4	19	3	3440	31
N3	8	19	3	3040	54
N4	8	16	3	2640	33
N5	8	13	3	2240	18
N6	4	19	3	3740	33
N7	14	19	3	3460	108
N8	12	19	3	3220	86
N9	12	16	3	2980	55
N10	12	16	3	2720	51
N11	12	13	3	2480	30
N12	12	13	3	2240	27
S1	12	19	STR	1800	48
T1	6	16	STR	3500	33
T2	6	16	STR	8500	79
V1	4	13	STR	3020	12
V2	4	13	STR	2820	11
V3	4	13	STR	2420	10
V4	4	13	STR	2020	8
V5	4	13	STR	1620	6
V6	4	13	STR	3120	12
V7	8	13	STR	2840	23
V8	6	13	STR	2600	16
V9	6	13	STR	2360	14
V10	6	13	STR	2100	13
V11	6	13	STR	1860	11
V12	6	13	STR	1620	10
Z1	4	16	4	2160	13
Z2	4	16	4	2020	13
Z3	8	16	4	1700	21
Z4	8	13	4	1360	11
Z5	8	13	4	1060	8
Z6	4	16	4	2240	14
Z7	14	16	4	2020	44
Z8	12	16	4	1840	34
Z9	12	16	4	1640	31
Z10	12	13	4	1420	17
Z11	12	13	4	1240	15
Z12	12	13	4	1040	12

REINFORCING STEEL
FOR 4 WING WALLS 1446 kg

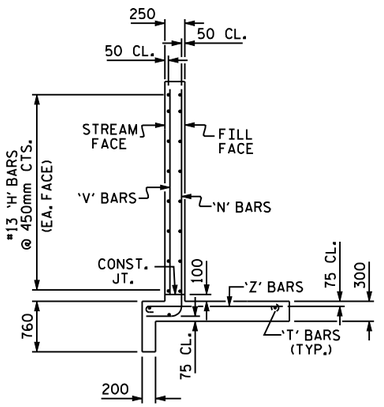
CLASS A CONCRETE
4 WINGS 30.3 m^3
2 HEADWALLS ____ m^3
2 END CURTAIN WALLS ____ m^3
TOTAL ____ m^3



ELEVATION W2



ELEVATION W1



TYPICAL WING SECTION

FOR WING ORIENTATION, SEE BARREL STANDARD SHEET.

PROJECT NO. _____

_____ COUNTY

STATION: _____

SHEET OF

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STANDARD WINGS FOR CONCRETE BOX CULVERT H=3.000m SLOPE=2:1 45° OR 135° SKEW

ASSEMBLED BY :	DATE :
CHECKED BY :	DATE :
DRAWN BY : JLR 7/97	
CHECKED BY : VAP 7/97	

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

STD. NO. 4530