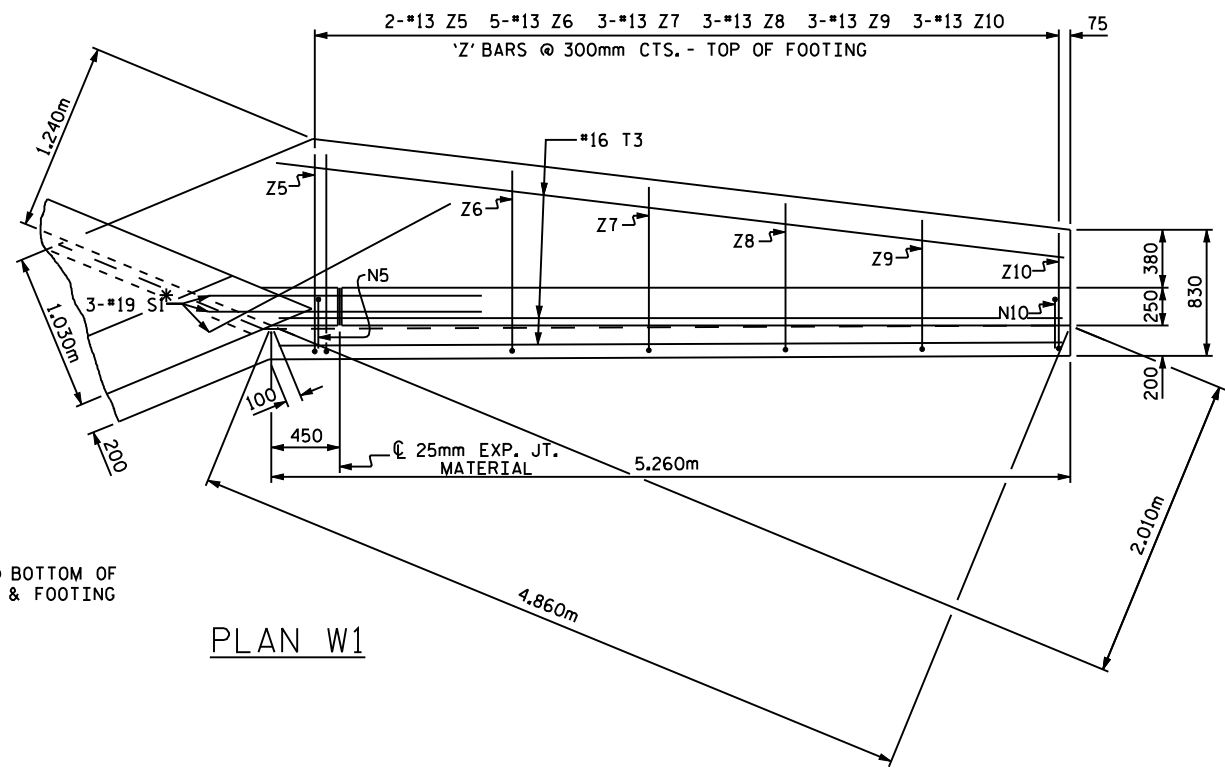
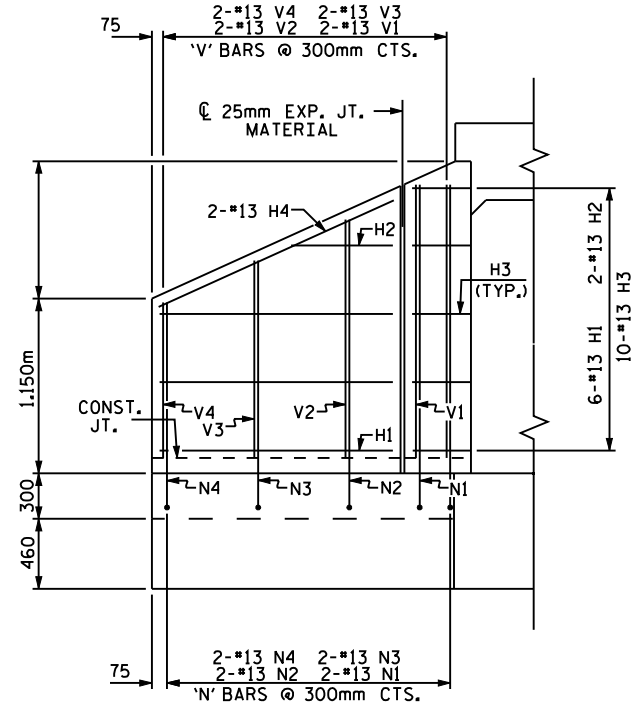


PLAN W2

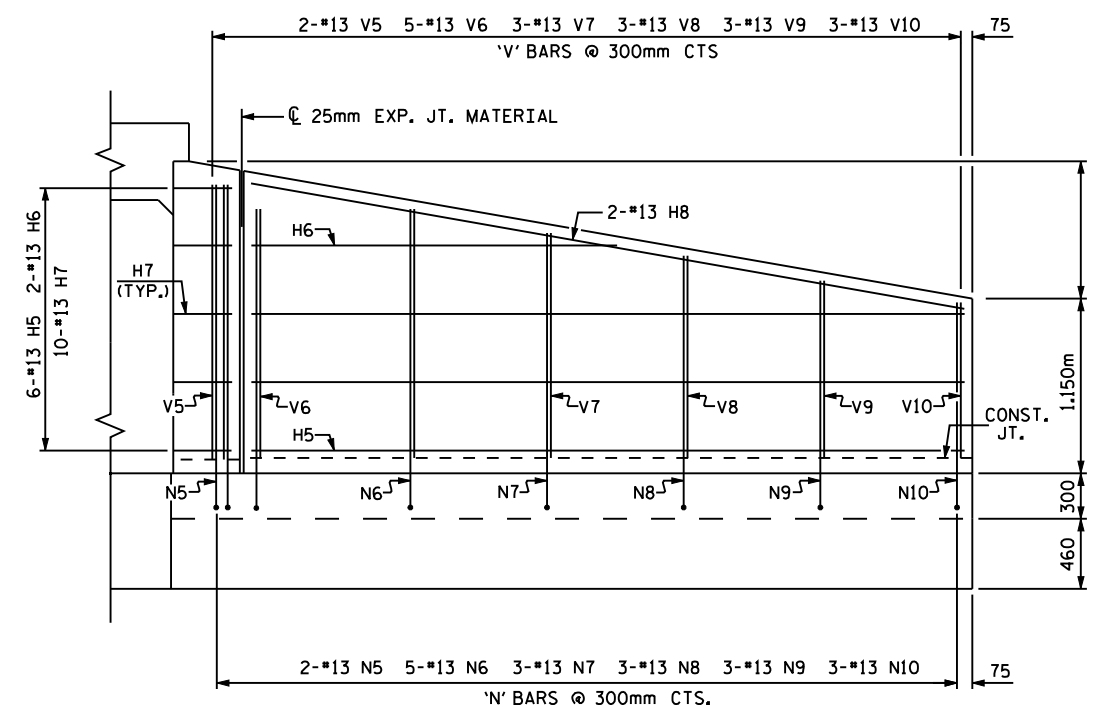


PLAN W1

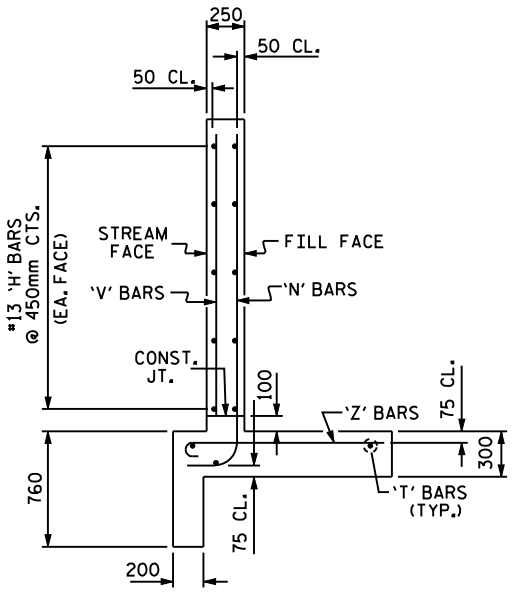
\* S1 BARS @ BOTTOM OF FLOOR SLAB & FOOTING



ELEVATION W2



ELEVATION W1



TYPICAL WING SECTION

BAR TYPES

ALL BAR DIMENSIONS ARE OUT TO OUT.

Z1	1230	150
Z2	1090	150
Z3	930	150
Z4	750	150
Z5	1290	150
Z6	1150	150
Z7	1050	150
Z8	950	150
Z9	850	150
Z10	730	150

BILL OF MATERIAL

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
H1	12 13	STR	1540	18
H2	4 13	STR	720	3
H3	20 13	1	980	19
H4	4 13	STR	1680	7
H5	12 13	STR	4700	56
H6	4 13	STR	2760	11
H7	20 13	2	980	19
H8	4 13	STR	4760	19
N1	4 13	3	2440	10
N2	4 13	3	2220	9
N3	4 13	3	1940	8
N4	4 13	3	1660	7
N5	4 13	3	2540	10
N6	10 13	3	2320	23
N7	6 13	3	2140	13
N8	6 13	3	1980	12
N9	6 13	3	1820	11
N10	6 13	3	1660	10
S1	12 19	STR	1800	48
T1	4 16	STR	2100	13
T2	2 16	STR	2400	7
T3	6 16	STR	5260	49
V1	4 13	STR	1820	7
V2	4 13	STR	1600	6
V3	4 13	STR	1320	5
V4	4 13	STR	1040	4
V5	4 13	STR	1920	8
V6	10 13	STR	1700	17
V7	6 13	STR	1520	9
V8	6 13	STR	1360	8
V9	6 13	STR	1200	7
V10	6 13	STR	1040	6
Z1	4 13	4	1380	5
Z2	4 13	4	1240	5
Z3	4 13	4	1080	4
Z4	4 13	4	900	4
Z5	4 13	4	1440	6
Z6	10 13	4	1300	13
Z7	6 13	4	1200	7
Z8	6 13	4	1100	7
Z9	6 13	4	1000	6
Z10	6 13	4	880	5

REINFORCING STEEL FOR 4 WING WALLS 521 kg

CLASS A CONCRETE

4 WINGS	12.7	m <sup>3</sup>
2 HEADWALLS		m <sup>3</sup>
2 END CURTAIN WALLS		m <sup>3</sup>
TOTAL		m <sup>3</sup>

PROJECT NO. \_\_\_\_\_  
 \_\_\_\_\_ COUNTY  
 STATION: \_\_\_\_\_

SHEET OF \_\_\_\_\_  
 STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 STANDARD WINGS  
 FOR  
 CONCRETE BOX CULVERT  
 H=1.800m 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		
2			4		

TOTAL SHEETS