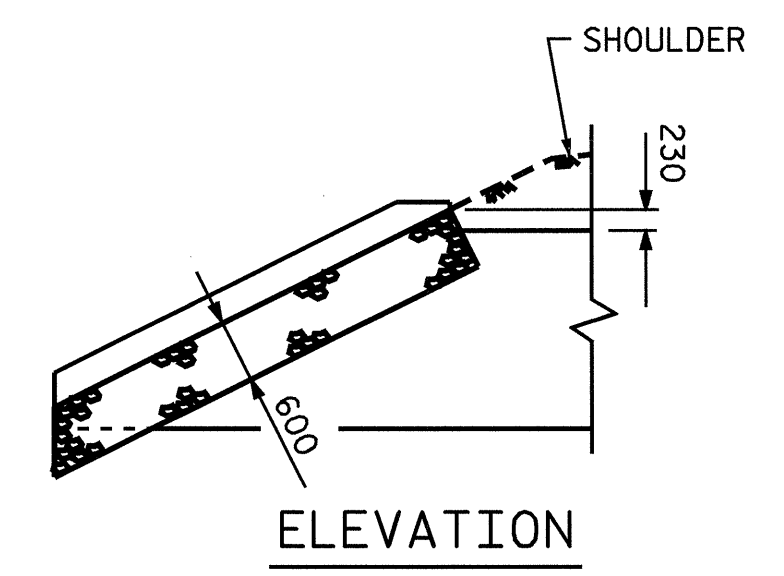
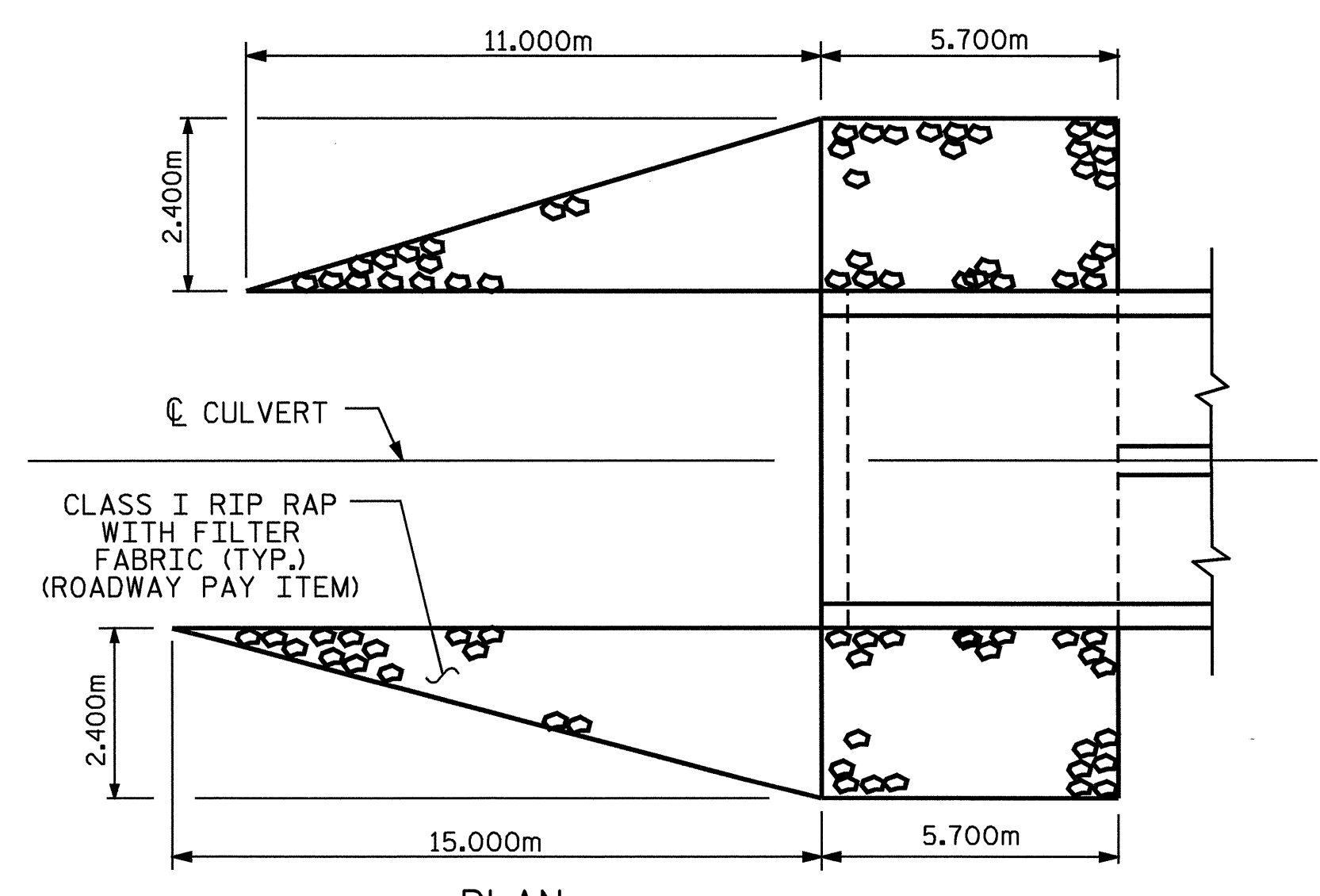


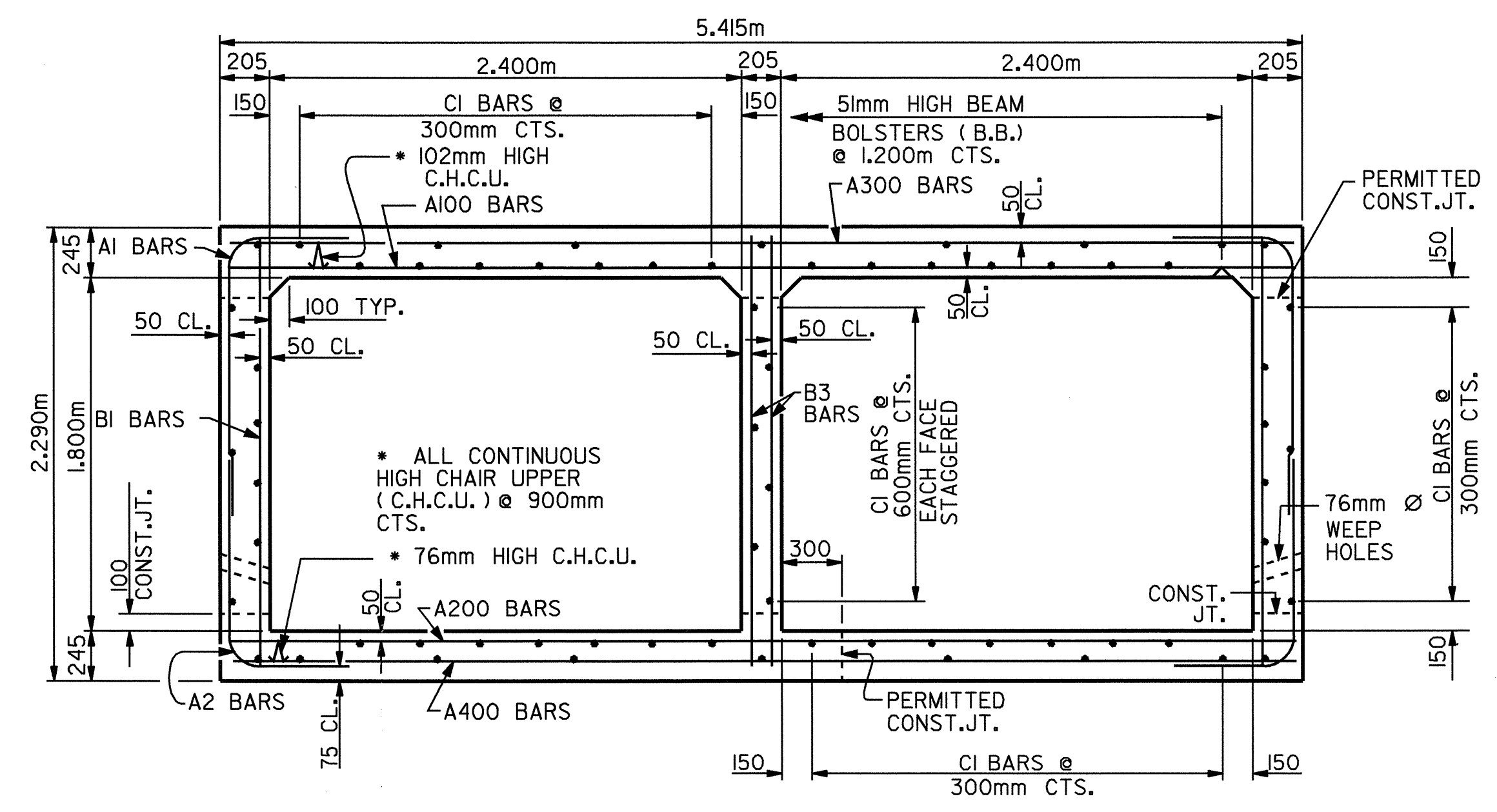
SECTION THRU  
OUTLET WING



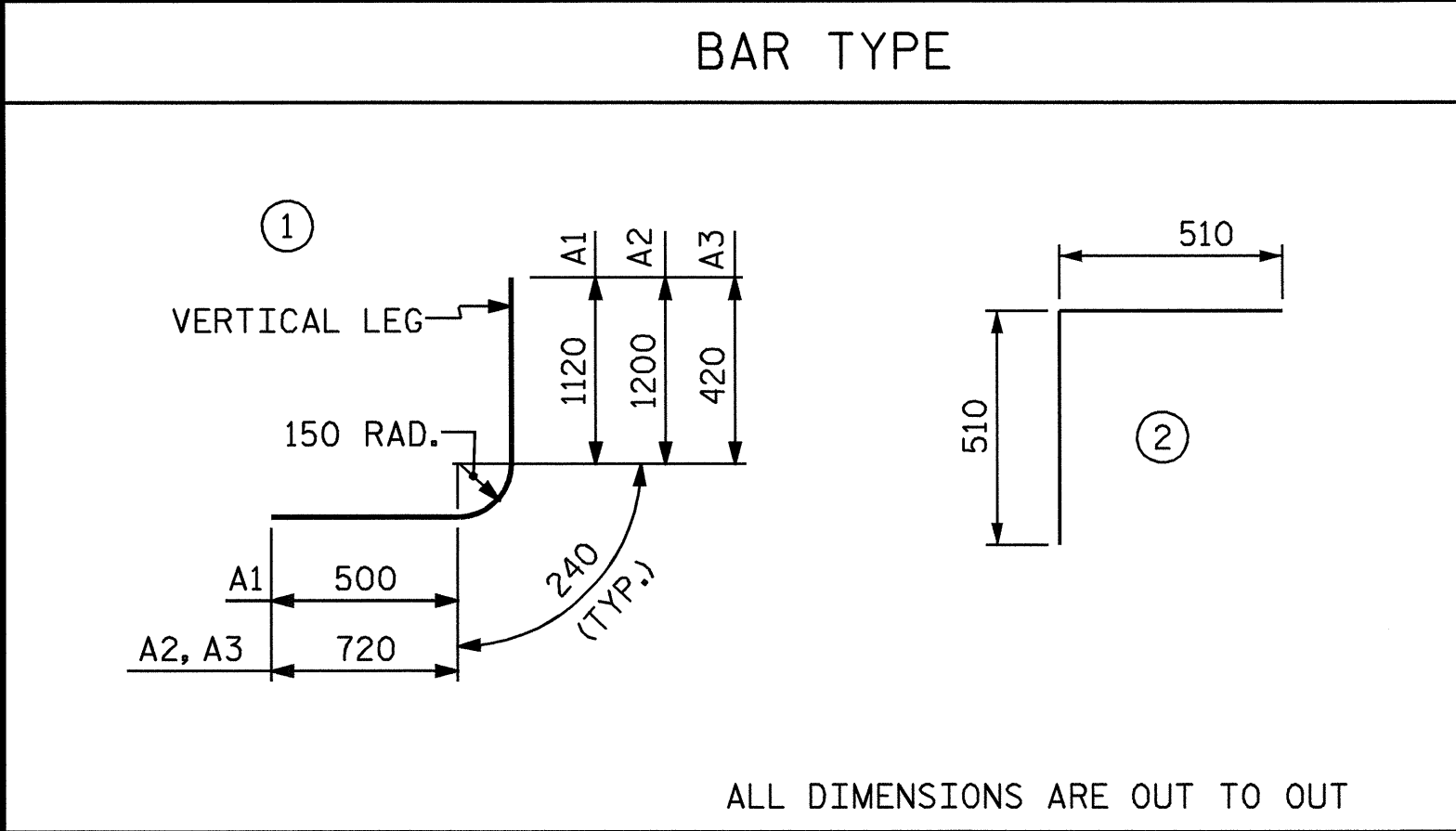
ELEVATION



PLAN  
OUTLET WING  
RIP RAP DETAILS



RIGHT ANGLE SECTION OF BARREL  
THERE ARE 66 "C" BARS IN SECTION OF BARREL.

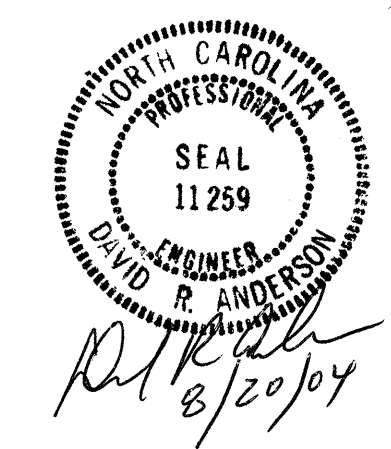


ALL DIMENSIONS ARE OUT TO OUT

SPLICE LENGTH CHART		
BAR	SIZE	SPLICE LENGTH
A200	13	540
A400	22	920
B1	13	540
B3	13	540
C1	13	590
C2	13	590
"H"	13	540

BILL OF MATERIAL											
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
A100	162	#16	STR	5260	1322	K1	9	#13	2	1020	9
A200	208	#13	STR	5260	1088	V1	8	#13	STR	2100	17
A300	162	#19	STR	5260	1904	V2	8	#13	STR	1980	16
A400	195	#22	STR	5260	3120	V3	8	#13	STR	1860	15
A1	324	#13	1	1860	599	V4	8	#13	STR	1760	14
A2	390	#19	1	2160	1883	V5	8	#13	STR	1640	13
A3	28	#19	1	1380	86	V6	8	#13	STR	1520	12
B1	184	#13	STR	2100	384	V7	8	#13	STR	1420	11
B3	220	#13	STR	2100	459	V8	8	#13	STR	1300	10
C1	264	#13	STR	7520	1973	V9	8	#13	STR	1180	9
C2	46	#13	STR	3140	144	V10	8	#13	STR	1080	9
G1	8	#16	STR	5300	66	V11	8	#13	STR	960	8
D1	14	#19	STR	900	28	V12	8	#13	STR	840	7
H1	4	#13	STR	5880	23	V13	8	#13	STR	740	6
H2	4	#13	STR	5560	22	V14	8	#13	STR	620	5
H3	4	#13	STR	5500	22	V15	8	#13	STR	500	4
H4	4	#13	STR	4600	18	V16	8	#13	STR	400	3
H5	4	#13	STR	4160	17	V17	8	#13	STR	300	2
H6	4	#13	STR	3700	15	REINFORCING STEEL = 13,360 Kg  CLASS A CONCRETE BARREL & OUTLET WINGS 145.6 m <sup>3</sup> 1 END CURTAIN WALL 0.5 m <sup>3</sup> TOTAL 146.1 m <sup>3</sup>					
H7	4	#13	STR	2800	11						
H8	4	#13	STR	1880	7						

ASSEMBLED BY : N. Q. TRAN DATE : 2-14-03  
 CHECKED BY : T. A. WALTER DATE : 4-10-03  
 DRAWN BY : EEM 6/97  
 CHECKED BY : ARB 7/97



PROJECT NO. R-513BA  
 ROBESON COUNTY  
 STATION: 14+40.000 -Y1-  
 SHEET 4 OF 5

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
DOUBLE 2.400m X 1.800m CONCRETE BOX CULVERT					
1994					
REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					SHEET NO. C-13
					TOTAL SHEETS 24