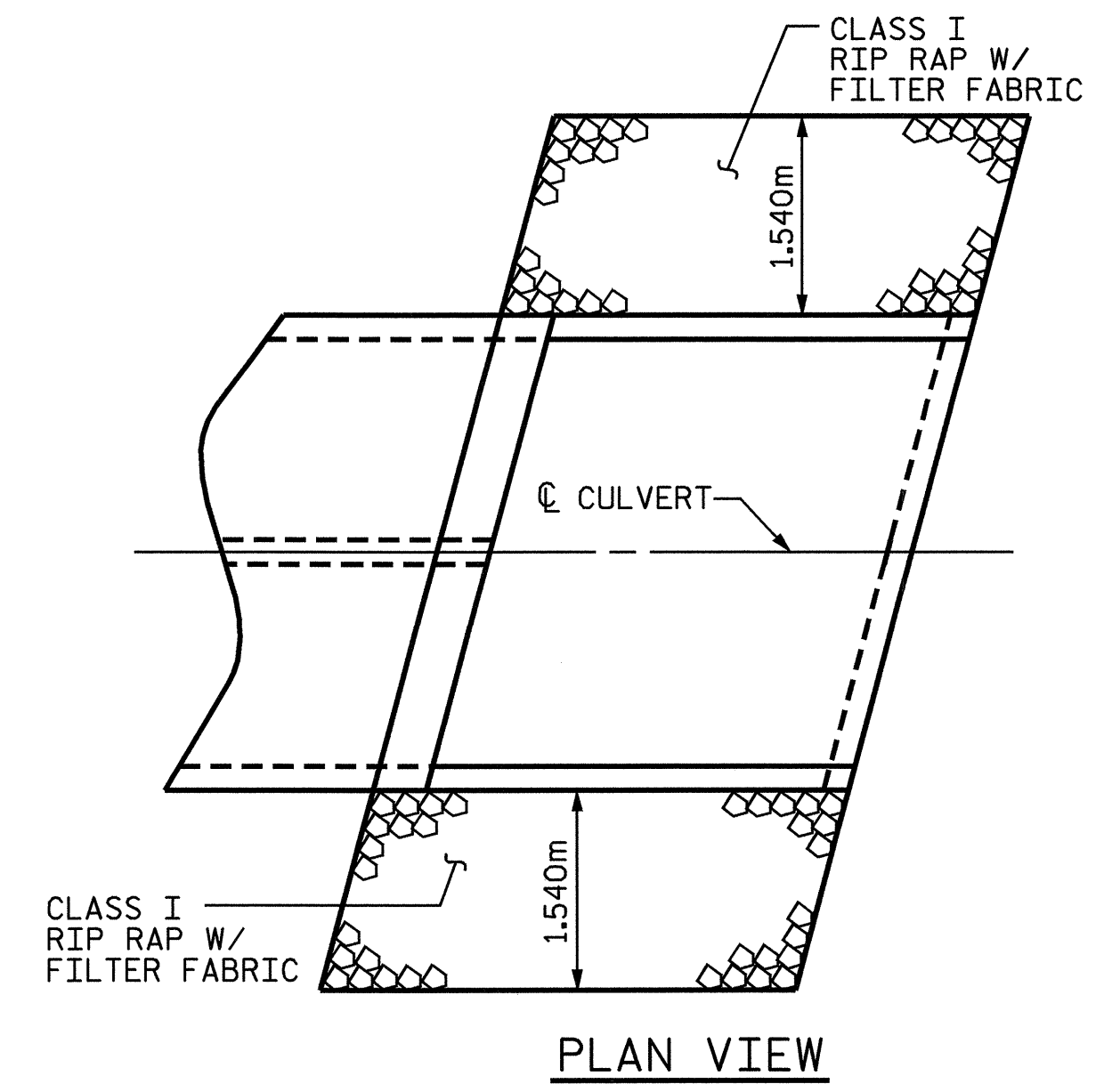
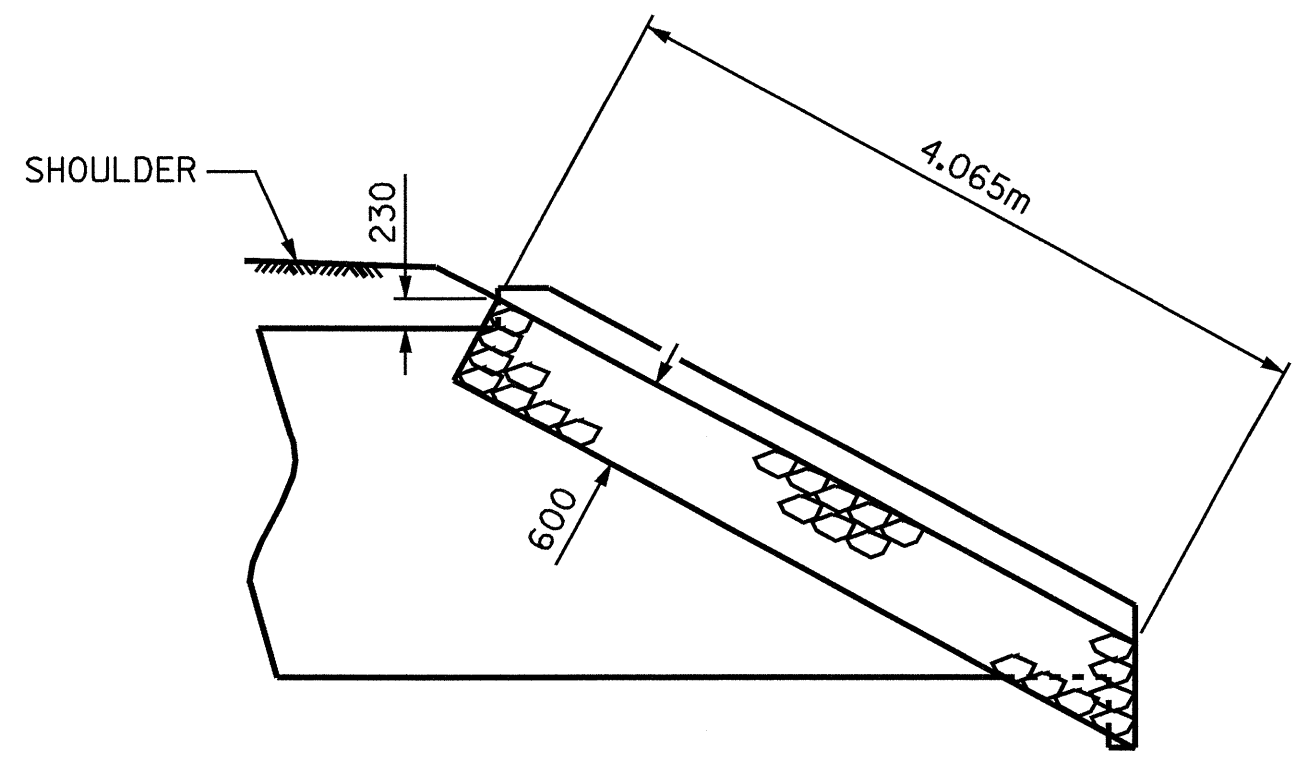


END ELEVATION NORMAL TO SKEW



PLAN VIEW

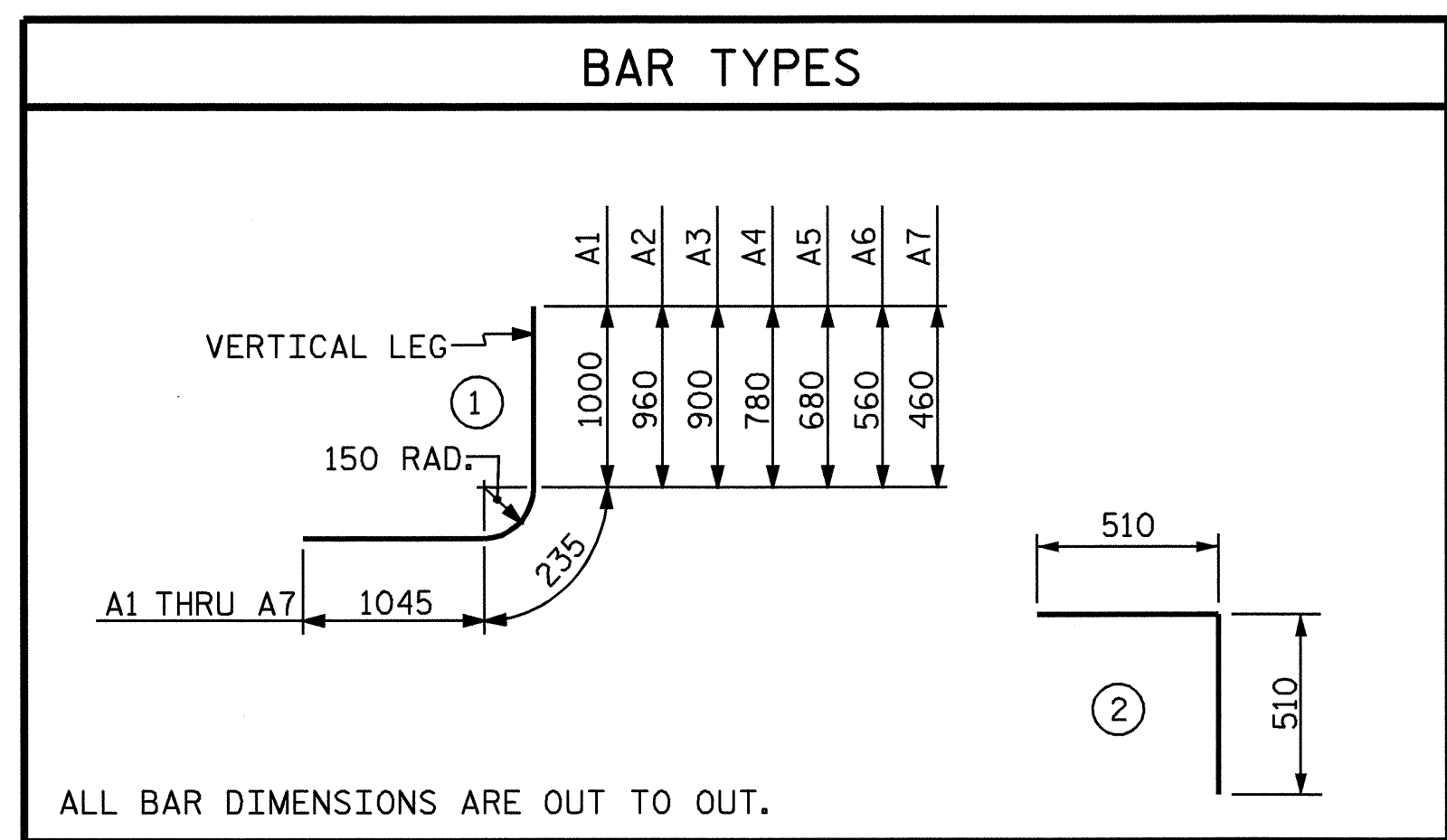


ELEVATION VIEW

OUTLET WING RIP RAP DETAILS

REINFORCING STEEL SCHEDULE FOR LEFT EXTENSION						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
A1	32	13	1	2280	73	
A2	32	13	1	2240	71	
A100	13	13	STR.	1800	23	
A101	2	13	STR.	1500	3	
A102	2	13	STR.	1060	2	
A103	2	13	STR.	620	1	
A200	13	13	STR.	1800	23	
A201	2	13	STR.	1540	3	
A202	2	13	STR.	1140	2	
A203	2	13	STR.	740	1	
B1	26	13	STR.	1860	48	
C1	23	13	STR.	3780	86	
C2	8	13	STR.	3560	28	
D1	16	19	STR.	760	27	
G1	4	13	STR.	2100	8	
S2	12	25	STR.	2100	100	
REINFORCING STEEL FOR LEFT EXTENSION					KG	499
CLASS A CONCRETE						
BARREL EXTENSION @ 1.57 m ³ /m					=	6.2 m ³

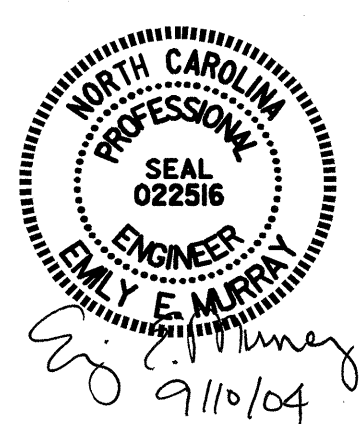
REINFORCING STEEL SCHEDULE FOR RIGHT EXTENSION & OUTLET WINGS						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
A1	28	13	1	2280	63	
A2	46	13	1	2240	102	
A3	2	13	1	2180	4	
A4	2	13	1	2060	4	
A5	2	13	1	1960	4	
A6	2	13	1	1840	4	
A7	2	13	1	1740	3	
A100	11	13	STR.	1800	20	
A101	2	13	STR.	1500	3	
A102	2	13	STR.	1060	2	
A103	2	13	STR.	620	1	
A200	28	13	STR.	1800	50	
A201	2	13	STR.	1540	3	
A202	2	13	STR.	1140	2	
A203	2	13	STR.	740	1	
B1	24	13	STR.	1860	44	
C3	23	13	STR.	3440	79	
C4	8	13	STR.	6980	56	
D1	16	19	STR.	760	27	
D2	12	19	STR.	900	24	
G1	4	13	STR.	2100	8	
H11	2	13	STR.	3640	7	
H12	2	13	STR.	3520	7	
H13	4	13	STR.	2820	11	
H14	2	13	STR.	2120	4	
H15	2	13	STR.	1420	3	
H16	4	13	STR.	3980	16	
K1	4	13	2	1020	4	
S2	14	25	STR.	2100	117	
V8	4	13	STR.	1840	7	
V9	4	13	STR.	1740	7	
V10	4	13	STR.	1640	7	
V11	4	13	STR.	1520	6	
V12	4	13	STR.	1420	6	
V13	4	13	STR.	1320	5	
V14	4	13	STR.	1200	5	
V15	4	13	STR.	1100	4	
V16	4	13	STR.	980	4	
V17	4	13	STR.	880	4	
V18	4	13	STR.	780	3	
V19	4	13	STR.	660	3	
REINFORCING STEEL FOR RIGHT EXTENSION & OUTLET WINGS					KG	734
CLASS A CONCRETE						
BARREL EXTENSION @ 1.57 m ³ /m					=	5.6 m ³
OUTLET WINGS WITH FLOOR					=	3.7 m ³
1 HEADWALL					=	0.3 m ³
1 END CURTAIN WALL					=	0.2 m ³
2 EDGE BEAMS					=	0.4 m ³
TOTAL					=	10.2 m ³



SPLICE LENGTHS CHART		
BAR	SIZE	SPLICE LENGTH
B1	13	540
C1	13	590
C2	13	590
C3	13	590
C4	13	590

PROJECT NO. R-2206C
LINCOLN-CATAWBA COUNTY
 STATION: 20+12.647 -Y14-

SHEET 4 OF 5



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

**SINGLE 1.540m X 1.530m
 CONCRETE BOX CULVERT
 EXTENSION
 61° SKEW**

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

C-8	TOTAL SHEETS
9	9

DRAWN BY : T.L. AVERETTE DATE : 10-10-02
 CHECKED BY : W.D. CRUTCHER DATE : 2-04