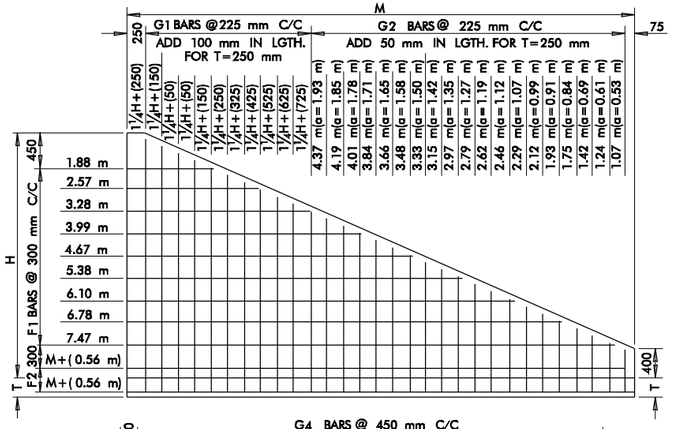
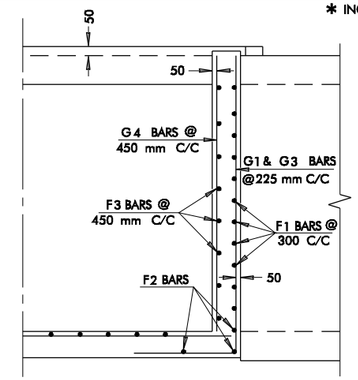
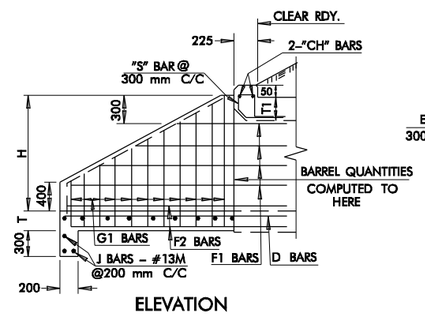
CLEAR SPAN (mm)	CLEAR HEIGHT (mm)	WING DIMENSIONS X	Y	d	T	H	M	N	R	APRON "D" BARS #13M NO	LGTH.	"E" BARS #13M NO	AVER. LGTH	TWO WINGS "F1" BARS #13M NO	AVER. LGTH	"F2" BARS #13M NO	LGTH	"F3" BARS #13M NO	AVER. LGTH	"F4" BARS #13M NO	LGTH	"G1" BARS #13M NO	AVER. LGTH	"G2" BARS #13M NO	AVER. LGTH	"G3" BARS #13M NO	SIZE	h	AVER. LGTH	"G4" BARS #13M NO	AVER. LGTH	ONE CURB "CH" BARS #13M NO	LGTH	"S" BARS #13M NO	MIN. LGTH	* TOTAL ONE HEADWALL CONC. m3	STEEL kg	ADD'L QUANT. CURTAIN WALL CONC. m3/m
600	600	1015		25	200	810	1420	1220		4	1475	4	1650	2	1830	6	1980	2	1830	2	1830	12	1090							6	610	2	1120	5	635	0.994	57.15	0.72
900		1165								5			1955																				1420	6	635	1.093	61.24	0.83
1200		1320								6			2260																				1725	7	685	1.193	65.32	0.90
1500		1475								7			2565																				2030	8	735	1.284	69.85	1.00
900	900	1510		38	200	1115	2110	1830		5	2080	6	2310	4	1855	6	2670	2	1855	2	2515	18	1320							10	710	2	1420	6	635	1.866	93.44	1.03
1200		1665								6			2615																				1725	7	685	1.980	98.88	1.13
1500		1815								7			2920																				2030	8	735	2.110	104.33	1.21
1800		1970								8			3225																				2335	9	785	2.248	110.22	1.30
2400		2275								10			3835																				2945	11	890	2.523	122.02	1.50
1200	1200	2020		50	200	1420	2820	2440		6	2690	8	2970	6	2335	6	3380	4	2390	2	3225	24	1550							12	915	2	1725	7	660	2.959	145.61	1.33
1500		2175								7			3275																				2030	8	710	3.135	156.50	1.43
1800		2325								8			3580																				2335	9	760	3.303	159.21	1.53
2400		2630								10			4190																				2945	11	840	3.662	172.82	1.71
3000		2935								12			4800																				3555	13	915	4.029	186.88	1.91
1500	1500	2515		63	200	1775	3505	3050		7	3300	10	3630	8	2720	6	4065	6	2820	2	3910	30	1805							16	1065	2	2080	8	735	4.304	210.47	1.63
1800		2665								8			3940																				2390	9	760	4.511	218.18	1.73
2400		2970								10			4545																				2390	11	840	4.970	234.51	1.91
3000		3275								12			5155																				3605	13	915	5.367	250.85	2.11
1500	1800	2870	1620	75	200	2080	4215	3050	610	7	3300	10	3630	10	3075	8	4775	6	2820	2	4625	28	2235	8	1345					18	1270	2	2135	8	710	5.184	259.01	1.86
1800		3025	1775							8			3940																				2440	9	735	5.398	266.72	1.96
2400		3330	2080							10			4545																				3050	11	840	5.826	283.05	2.13
3000		3635	2385							12			5155																				3660	13	890	6.269	299.38	2.33
1500	2100	3225	1365	88	250	2385	4925	3050	1220	7	3300	10	3630	12	3505	8	5485	8	3355	2	5335	26	2770	16	1675					22	1370	2	2185	8	710	7.753	323.42	2.08
1800		3375	1520							8			3940																				2490	9	735	8.020	327.95	2.16
2400		3680	1825							10			4545																				3100	11	840	8.540	344.28	2.36
3000		3985	2130							12			5155																				3710	13	890	9.060	360.61	2.53
1800	2400	3735	1190	100	250	2690	5640	3050	1830	8	3300	10	3940	14	3835	10	6200	10	3885	2	6045	24	3200	24	2030	12	#13M	610	1700	24	1575	2	2540	9	710	9.542	417.31	2.38
2400		4040	1495							10			4545																				3150	11	815	10.062	434.10	2.56
3000		4345	1800							12			5155																				3760	13	865	10.589	450.42	2.76
3000	2700	4680	1485	113	250	3050	6325	3050	2440	12	3300	10	5155	16	4320	10	6885	10	3835	2	6730	22	3660	32	2390	18	#13M	915	2085	28	1700	2	3810	14	865	12.286	540.69	2.96
3000	3000	5040	1155	125	250	3350	7035	3050	3300	12	3300	10	5155	18	4675	12	7595	12	4345	2	7440	20	4090	40	2720	24	#16M	1295	2540	30	1905	2	3860	14	865	14.228	694.00	3.19

* INCLUDES 2 WINGS, ONE APRON, ONE CURB AND 1 STD. DEPTH CURTAIN WALL

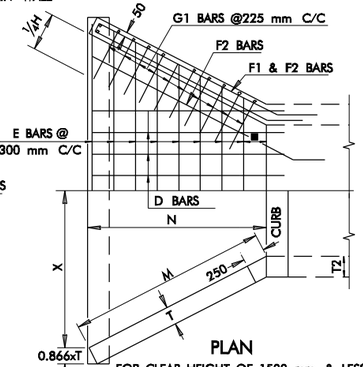




SECTION A – A

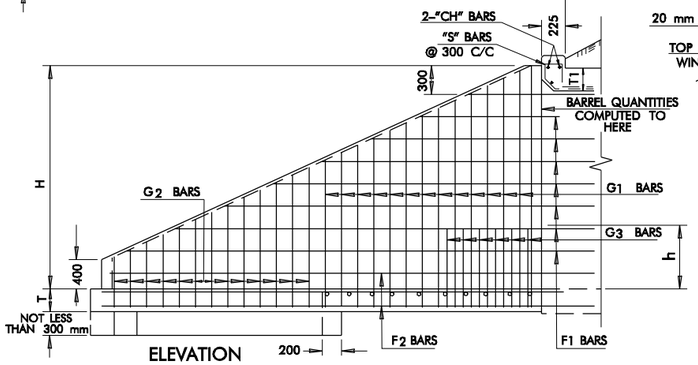


ELEVATION



PLAN

FOR CLEAR HEIGHT OF 1500 mm & LESS
■ FIRST E BAR TO BE PLACE 150 mm (NOM.) FROM END OF BARREL



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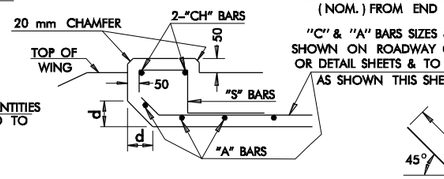
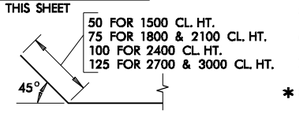


"C" & "A" BARS SIZES & SPACING SHOWN ON ROADWAY OR BRIDGE STDS. OR DETAIL SHEETS & TO BE FIELD BENT AS SHOWN THIS SHEET



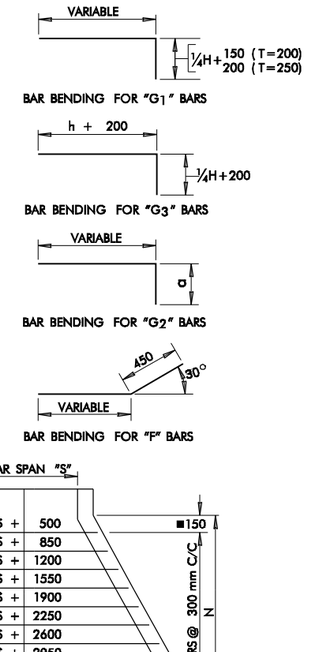
BAR BENDING FOR "C" BARS

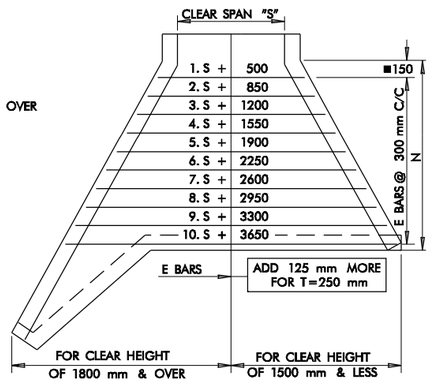
T1 – 50 FOR 600 & 900 CL. HT.
T1 – 75 FOR 1200 & 1500 CL. HT.
T1 –100 FOR 1800 & 2100 CL. HT.
T1 –125 FOR 2400 & 2700 CL. HT.
T1 –150 For 3000 CL. HT.

BAR BENDING FOR "S" BARS

SEE RDY. STD. RCB1, RCB2 FOR T1 DIM. OR BRIDGE STD. RCB–C1 FOR EQUIV. DIM

DESCRIPTION	REVISIONS	DATE
RE–ISSUE W/METRIC 1999 SPECS. Sec. A–A., Toe Wall T In Plan View		lgc 7/99
Clear Span Dim. & Title/Title Block		lgc 6/03
Add G. Note 9,Symb,Class AA Conc		lgc 6/05





BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
509.06(A)	CLASS AA CONCRETE	CUBIC METER
509.06(B)	CLASS A CONCRETE	CUBIC METER
511.06(A)	REINFORCING STEEL	KILOGRAM

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 1999 METRIC STANDARD SPECIFICATIONS.
2. REINFORCING STEEL IN APRON SHALL BE SUPPORTED ON BAR CHAIRS.
3. CHAIRS SHALL BE SUPPORTED ON TIMBER PLANK OR CLASS C CONCRETE STRIPS SPACED AT 100 mm CENTERS.
4. THE TOP OF CHAIR SUPPORTS, SHALL BE AT THE ELEVATION OF THE BOTTOM OF FOOTING. REINFORCING STEEL IN THE WINGS SHALL BE HELD IN PLACE BY METAL CHAIRS. MAXIMUM SPACING OF CHAIRS SHALL BE 150 mm CENTERS.
5. COST OF METAL CHAIRS, WOOD PLANK OR CONCRETE STRIPS SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
6. FOR DETAILS OF ONE CELL BARRELS THAT CORRESPOND TO THE HEADWALLS SHOWN ON THIS STANDARD, SEE RCB STD. SHEET(S) IN PROJECT PLAN SET.
7. ALL REINFORCING STEEL SHALL HAVE 50 mm MINIMUM CLEARANCE FROM ALL ADJACENT CONCRETE SURFACES.
8. * WINGWALL, CURB AND APRON CONSTRUCTION SHALL CONSIST OF THE SAME CLASS OF CONCRETE USED FOR THE REINFORCED CONCRETE BOX.

APPROVED BY ROADWAY ENGINEER — DATE

OKLAHOMA DEPT. OF TRANSPORTATION
ROADWAY STANDARD (METRIC)

HEADWALL
ONE CELL REINFORCED CONCRETE BOX

1999 SPECIFICATIONS	(50 mm HIGH CURB)	RCB2H–1	02M
ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED.			R–53M