REV. NO.	DESCRIPTION	REVISIONS	DATE

Design No.	Clear Span	Clear Height	DIMENSIONS — WINGS A1	A2	B1	B2	C1	C2	D	E1	E2	F
1	3000	1500	3600	2400	900	1200	1190	890	1570	5190	3000	9890
2		2000	4600	3000	1150	1500	1440	1090	1750	6190	3600	9890
3		2500	5600	3700	1400	1850	1690	1240	1920	7190	4300	9890
4		3000	6600	4400	1650	2200	1940	1390	2100	8190	5000	9890
5	3500	1500	3600	2400	900	1200	1200	900	1570	5190	3000	11 620
6		2000	4600	3000	1150	1500	1450	1100	1750	6190	3600	11 620
7		2500	5600	3700	1400	1850	1700	1250	1920	7190	4300	11 620
8		3000	6600	4400	1650	2200	1950	1400	2100	8190	5000	11 620
9		3500	7600	5000	1900	2500	2200	1600	2270	9190	5600	11 620
10	4000	2000	4600	3000	1150	1500	1460	1110	1750	6190	3600	13 350
11		2500	5600	3700	1400	1850	1710	1260	1920	7190	4300	13 350
12		3000	6600	4400	1650	2200	1960	1410	2100	8190	5000	13 350
13		3500	7600	5000	1900	2500	2210	1610	2270	9190	5600	13 350
14		4000	8600	5700	2150	2850	2460	1760	2440	10 190	6300	13 350
15	4500	2000	4600	3000	1150	1500	1470	1120	1750	6190	3600	15 080
16		2500	5600	3700	1400	1850	1720	1270	1920	7190	4300	15 080
17		3000	6600	4400	1650	2200	1970	1420	2100	8190	5000	15 080
18		3500	7600	5000	1900	2500	2220	1620	2270	9190	5600	15 080
19		4000	8600	5700	2150	2850	2470	1770	2440	10 190	6300	15 080
20		4500	9600	6400	2400	3200	2720	1920	2620	11 190	7000	15 080

TWO LONG WINGS - REINFORCING

Design No.	6 D1 BARS LENGTH	D2 BARS NO.	D2 BARS LENGTH	6 D3 BARS SIZE	6 D3 BARS LENGTH	D4 BARS NO.	D4 BARS SIZE	D4 BARS LENGTH	D5 BARS NO.	D5 BARS SIZE	D5 BARS LENGTH	D6 BARS NO.	D6 BARS SIZE	D6 BARS LENGTH	4 E1 BARS LENGTH	E2 BARS NO.	E2 BARS LENGTH	E3 BARS NO.	E3 BARS LENGTH	F1 BARS NO.	F1 BARS LENGTH	24 F2 BARS LENGTH	G BARS NO.	G BARS LENGTH
1	2040	24	1150 to 1970	#13	2040	24	#13	1150 to 1970	28	#13	1870	30	#13	1130	4110	8	1720 to 2910	16	4100	96	850 to 1440	1470	20	4400
2	2540	32	1400 to 2470	#13	2540	32	#13	1400 to 2470	36	#13	2120	38	#13	1130	5140	12	1680 to 3960	20	5100	120	850 to 1620	1650	20	5400
3	3040	38	1650 to 2970	#13	3040	38	#13	1650 to 2970	42	#13	2370	44	#13	1130	6170	16	1650 to 4990	24	6100	148	850 to 1790	1820	20	6400
4	3540	44	1900 to 3470	#16	3540	44	#16	1900 to 3470	48	#16	2620	50	#16	1250	7200	20	1640 to 6000	28	7100	176	850 to 1970	2000	24	7400
5	2050	24	1160 to 1980	#13	2050	24	#13	1160 to 1980	28	#13	1880	30	#13	1130	4110	8	1720 to 2910	16	4100	96	850 to 1440	1470	20	4400
6	2550	32	1410 to 2480	#13	2550	32	#13	1410 to 2480	36	#13	2130	38	#13	1130	5140	12	1680 to 3960	20	5100	120	850 to 1620	1650	20	5400
7	3050	38	1660 to 2980	#13	3050	38	#13	1660 to 2980	42	#13	2380	44	#13	1130	6170	16	1650 to 4990	24	6100	148	850 to 1790	1820	20	6400
8	3550	44	1910 to 3480	#16	3550	44	#16	1910 to 3480	48	#16	2630	50	#16	1250	7200	20	1640 to 6000	28	7100	176	850 to 1970	2000	24	7400
9	4050	52	2160 to 3980	#19	4050	52	#19	2160 to 3980	56	#19	2880	58	#19	1400	8230	24	1620 to 7020	32	8100	200	850 to 2140	2170	24	8400
10	2560	32	1420 to 2490	#13	2560	32	#13	1420 to 2490	36	#13	2140	38	#13	1130	5140	12	1680 to 3960	20	5100	120	850 to 1620	1650	20	5400
11	3060	38	1670 to 2990	#13	3060	38	#13	1670 to 2990	42	#13	2390	44	#13	1130	6170	16	1650 to 4990	24	6100	148	850 to 1790	1820	20	6400
12	3560	44	1920 to 3490	#16	3560	44	#16	1920 to 3490	48	#16	2640	50	#16	1250	7200	20	1640 to 6000	28	7100	176	850 to 1970	2000	24	7400
13	4060	52	2170 to 3990	#19	4060	52	#19	2170 to 3990	56	#19	2890	58	#19	1400	8230	24	1620 to 7020	32	8100	200	850 to 2140	2170	24	8400
14	4560	58	2420 to 4490	#22	4560	58	#22	2420 to 4490	62	#22	3140	64	#22	1640	9260	28	1600 to 8000	32	9100	228	850 to 2310	2340	28	9400
15	2570	32	1430 to 2500	#13	2570	32	#13	1430 to 2500	36	#13	2150	38	#13	1130	5140	12	1680 to 3960	20	5100	120	850 to 1620	1650	20	5400
16	3070	38	1680 to 3000	#13	3070	38	#13	1680 to 3000	42	#13	2400	44	#13	1130	6170	16	1650 to 4990	24	6100	148	850 to 1790	1820	20	6400
17	3570	44	1930 to 3500	#16	3570	44	#16	1930 to 3500	48	#16	2650	50	#16	1250	7200	20	1640 to 6000	28	7100	176	850 to 1970	2000	24	7400
18	4070	52	2180 to 4000	#19	4070	52	#19	2180 to 4000	56	#19	2900	58	#19	1400	8230	24	1620 to 7020	32	8100	200	850 to 2140	2170	24	8400
19	4570	58	2430 to 4500	#22	4570	58	#22	2430 to 4500	62	#22	3150	64	#22	1640	9260	28	1600 to 8000	32	9100	228	850 to 2310	2340	28	9400
20	5070	64	2680 to 5000	#22	5070	64	#22	2680 to 5000	68	#22	3400	70	#25	1920	10 290	28	1700 to 8900	36	10 100	256	850 to 2490	2520	28	10 400

TWO SHORT WINGS - REINFORCING

Design No.	6 D1 BARS LENGTH	D2 BARS NO.	D2 BARS LENGTH	6 D3 BARS SIZE	6 D3 BARS LENGTH	D4 BARS NO.	D4 BARS SIZE	D4 BARS LENGTH	D5 BARS NO.	D5 BARS SIZE	D5 BARS LENGTH	D6 BARS NO.	D6 BARS SIZE	D6 BARS LENGTH	4 E1 BARS LENGTH	E2 BARS NO.	E2 BARS LENGTH	E3 BARS NO.	E3 BARS LENGTH	F1 BARS NO.	F1 BARS LENGTH	16 F2 BARS LENGTH	G BARS NO.	G BARS LENGTH
1	2040	16	860 to 1890	#13	2040	16	#13	860 to 1890	20¼	#13	1580	22	#13	1130	3180	12	1100 to 2300	12	2900	64	850 to 1430	1470	20	2900
2	2540	20	1060 to 2390	#13	2540	20	#13	1060 to 2390	24	#13	1780	26	#13	1130	3850	16	1100 to 2900	16	3500	80	850 to 1610	1650	20	3500
3	3040	26	1210 to 2900	#13	3040	26	#13	1210 to 2900	30	#13	1930	32	#13	1130	4630	24	1030 to 3670	16	4200	100	850 to 1780	1820	20	4200
4	3540	30	1360 to 3390	#16	3540	30	#16	1360 to 3390	34	#16	2080	36	#16	1250	5410	28	1050 to 4350	20	4900	120	850 to 1960	2000	24	4900
5	2050	16	870 to 1900	#13	2050	16	#13	870 to 1900	20	#13	1590	22	#13	1130	3180	12	1100 to 2300	12	2900	64	850 to 1430	1470	20	2900
6	2550	20	1070 to 2400	#13	2550	20	#13	1070 to 2400	24	#13	1790	26	#13	1130	3850	16	1100 to 2900	16	3500	80	850 to 1610	1650	20	3500
7	3050	26	1220 to 2910	#13	3050	26	#13	1220 to 2910	30	#13	1940	32	#13	1130	4630	24	1030 to 3670	16	4200	100	850 to 1780	1820	20	4200
8	3550	30	1370 to 3400	#16	3550	30	#16	1370 to 3400	34	#16	2090	36	#16	1250	5410	28	1050 to 4350	20	4900	120	850 to 1960	2000	24	4900
9	4050	34	1520 to 3900	#19	4050	34	#19	1520 to 3900	38	#19	2240	40	#19	1400	6080	32	1060 to 4940	24	5500	132	850 to 2130	2170	24	5500
10	2560	20	1080 to 2410	#13	2560	20	#13	1080 to 2410	24	#13	1800	26	#13	1130	3850	16	1100 to 2900	16	3500	80	850 to 1610	1650	20	3500
11	3060	26	1230 to 2920	#13	3060	26	#13	1230 to 2920	30	#13	1950	32	#13	1130	4630	24	1030 to 3670	16	4200	100	850 to 1780	1820	20	4200
12	3560	30	1380 to 3410	#16	3560	30	#16	1380 to 3410	34	#16	2100	36	#16	1250	5410	28	1050 to 4350	20	4900	120	850 to 1960	2000	24	4900
13	4060	34	1530 to 3910	#19	4060	34	#19	1530 to 3910	38	#19	2250	40	#19	1400	6080	32	1060 to 4940	24	5500	132	850 to 2130	2170	24	5500
14	4560	38	1730 to 4410	#22	4560	38	#22	1730 to 4410	42	#22	2450	44	#22	1640	6870	36	1070 to 5630	24	6200	152	850 to 2300	2340	28	6200
15	2570	20	1090 to 2420	#13	2570	20	#13	1090 to 2420	24	#13	1810	26	#13	1130	3850	16	1100 to 2900	16	3500	80	850 to 1610	1650	20	3500
16	3070	26	1240 to 2930	#13	3070	26	#13	1240 to 2930	30	#13	1960	32	#13	1130	4630	24	1030 to 3670	16	4200	100	850 to 1780	1820	20	4200
17	3570	30	1390 to 3420	#16	3570	30	#16	1390 to 3420	34	#16	2110	36	#16	1250	5410	28	1050 to 4350	20	4900	120	850 to 1960	2000	24	4900
18	4070	34	1540 to 3920	#19	4070	34	#19	1540 to 3920	38	#19	2260	40	#19	1400	6080	32	1060 to 4940	24	5500	132	850 to 2130	2170	24	5500
19	4570	38	1740 to 4420	#22	4570	38	#22	1740 to 4420	42	#22	2460	44	#22	1640	6870	36	1070 to 5630	24	6200	152	850 to 2300	2340	28	6200
20	5070	44	1890 to 4930	#25	5070	44	#25	1890 to 4930	48	#25	2610	50	#25	1920	7650	40	1080 to 6320	28	6900	172	850 to 2480	2520	28	6900

Design No.	TWO CURTAIN WALLS - REINFORCING 8 CW1 BARS LENGTH	8 CW2 BARS LENGTH	CW3 BARS NO.	CW4 BARS NO.	TWO CURBS REINF. 4 H1 BARS LENGTH	H2 BARS NO.	QUANTITIES * CONCRETE (m^3)	REINFORCING (kg.)	Design No.
1	20 820	20510	136	134	12 100	82	32.1	1723	1
2	22 420	22 110	146	144	12 100	82	39.5	2083	2
3	24 120	23 810	158	156	12 100	82	48.1	2491	3
4	25 820	25 510	168	166	12 100	82	57.8	3281	4
5	22 550	22 240	148	146	13 840	94	33.7	1816	5
6	24 150	23 840	158	156	13 840	94	41.1	2176	6
7	25 850	25 540	170	168	13 840	94	49.7	2584	7
8	27 550	27 240	180	178	13 840	94	59.4	3376	8
9	29 150	28 840	192	190	13 840	94	69.8	4445	9
10	25 880	25 570	170	168	15 570	106	42.6	2270	10
11	27 580	27 270	180	178	15 570	106	51.3	2671	11
12	29 280	28 970	192	190	15 570	106	61.0	3471	12
13	30 880	30 570	202	200	15 570	106	71.4	4535	13
14	32 580	32 270	214	212	15 570	106	83.1	5983	14
15	27 610	27 300	180	178	17 300	118	44.2	2356	15
16	29 310	29 000	192	190	17 300	118	52.8	2765	16
17	31 010	30 700	204	202	17 300	118	62.6	3566	17
18	32 610	32 300	214	212	17 300	118	73.0	4632	18
19	34 310	34 000	226	224	17 300	118	84.7	6081	19
20	36 010	35 700	236	234	17 300	118	97.6	8066	20

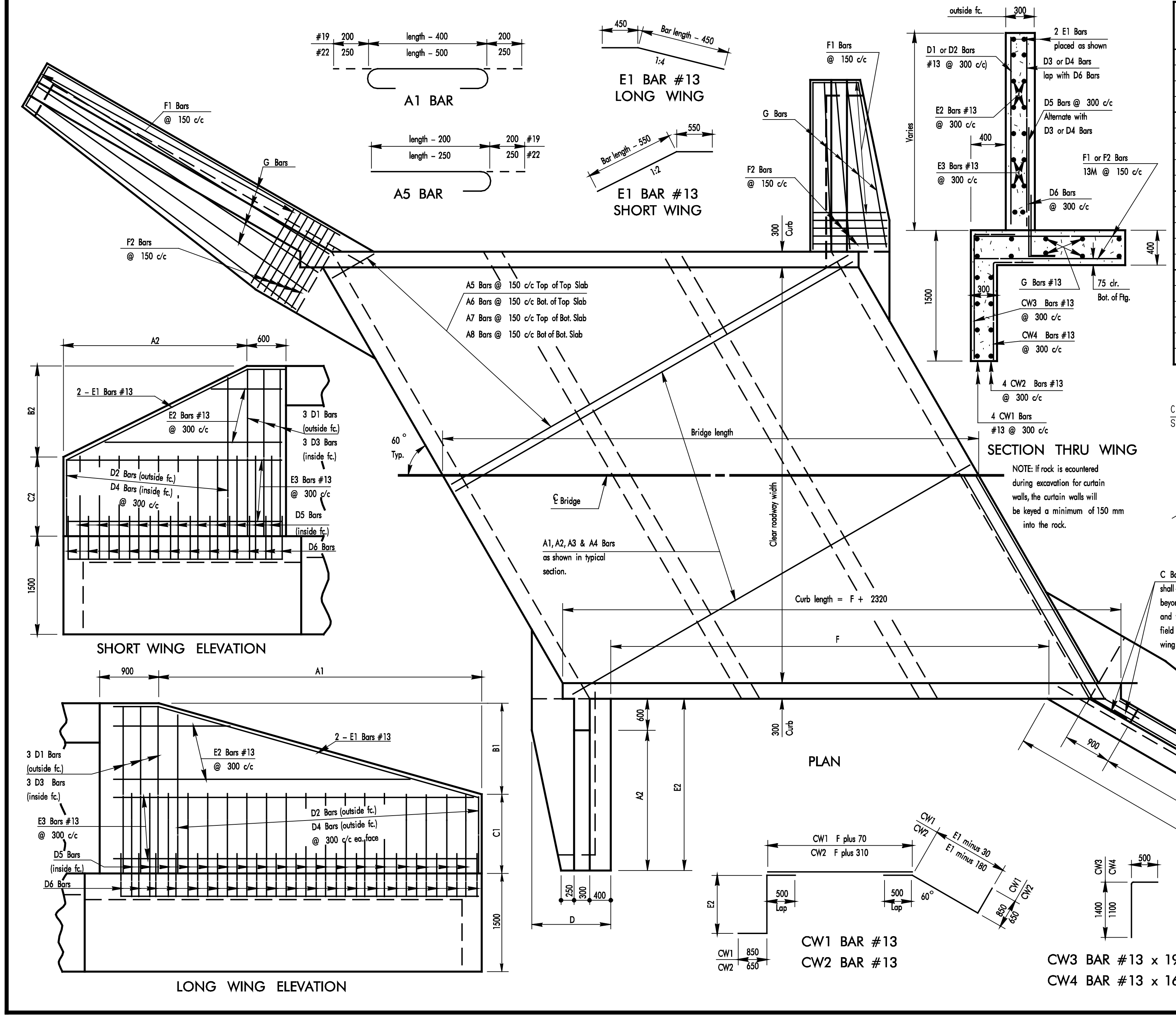
* Wing Quantities include
Wing footings, Curtain walls
and Curbs.

DESIGN DATA

Class "A" Concrete	f'c = 21 MPa
Reinforcing Steel (Grade 420)	fy = 420 MPa

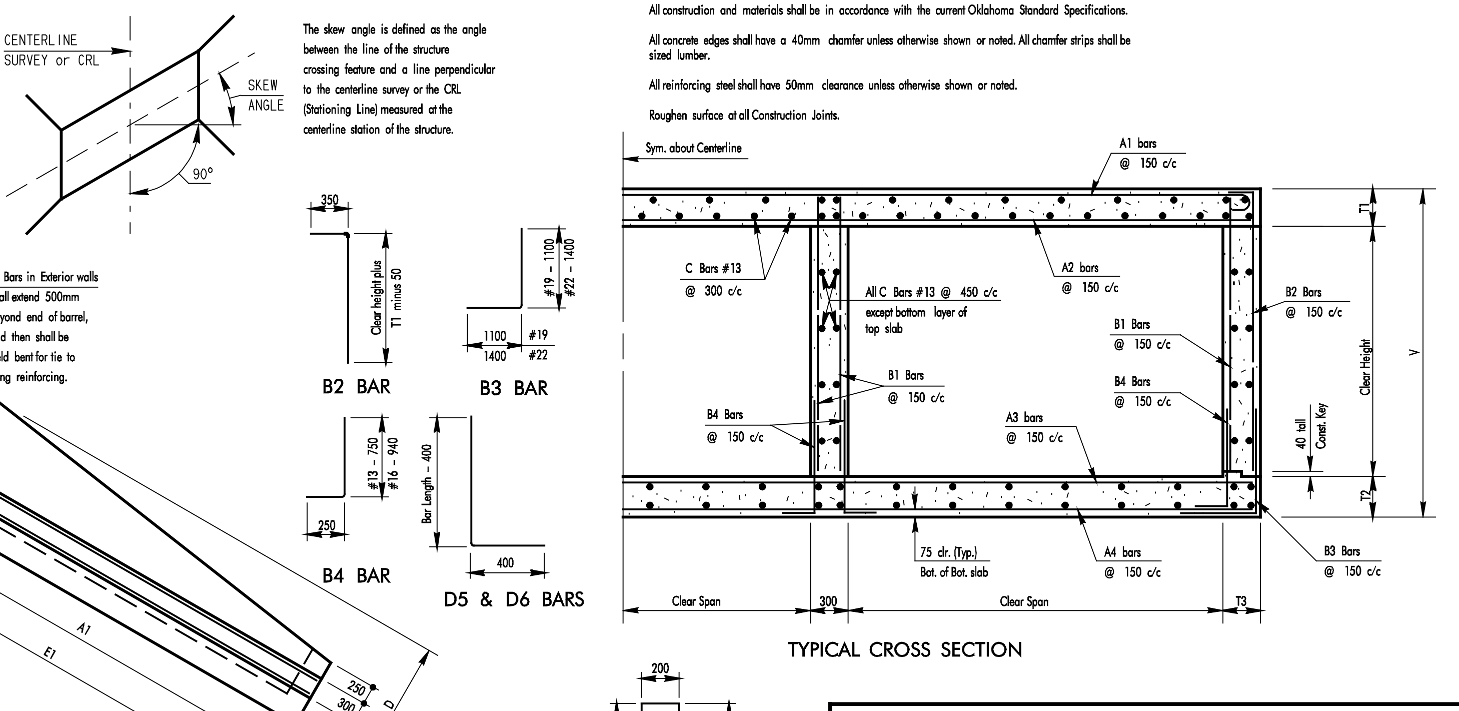
Loading: MS 18
Design: Load Factor Design

Design No.	Clear Span	Clear Height	Bridge length	BARREL DIMENSIONS T1	T2	T3	V	A1 BARS SIZE	A1 LENGTH	A2 BARS SIZE	A2 LENGTH	A3 BARS SIZE	A3 LENGTH	A4 BARS SIZE	A4 LENGTH	A5 BARS NO.	A5 SIZE	A5 LENGTH	A6 BARS NO.	A6 SIZE	A6 LENGTH	A7 BARS NO.	A7 SIZE	A7 LENGTH	A8 BARS NO.	A8 SIZE	A8 LENGTH	B1 BARS SIZE	B1 LENGTH	B2 BARS SIZE	B2 LENGTH	B3 BARS SIZE	B3 LENGTH	B4 BARS SIZE	B4 LENGTH	C BARS NO.	QUANTITIES CONCRETE (m^3)	REINFORCING (kg)	Design No.
1	3000	1500	11 780	290	320	300	2110	#19	10 500	#16	10 100	#13	10 100	#19	10 100	72	#19	900 to 9990	72	#16	700 to 9790	72	#13	700 to 9790	72	#19	700 to 9790	#13	1700	#16	2090	#19	2200	#13	1000	140	8.02/m	833.7/m	1
2		2000		290	320	300	2610	#19	10 500	#16	10 100	#13	10 100	#19	10 100	72	#19	900 to 9990	72	#16	700 to 9790	72	#13	700 to 9790	72	#19	700 to 9790	#13	2200	#16	2590	#19	2200	#13	1000	148	8.62/m	871.9/m	2
3		2500		290	320	300	3110	#19	10 500	#16	10 100	#13	10 100	#19	10 100	72	#19	900 to 9990	72	#16	700 to 9790	72	#13	700 to 9790	72	#19	700 to 9790	#13	2700	#16	3090	#19	2200	#13	1000	156	9.22/m	910.1/m	3
4		3000		290	320	300	3610	#19	10 500	#16	10 100	#13	10 100	#19	10 100	72	#19	900 to 9990	72	#16	700 to 9790	72	#13	700 to 9790	72	#19	700 to 9790	#13	3200	#16	3590	#19	2200	#13	1000	164	9.82/m	948.2/m	4
5	3500	1500	13 510	300	330	300	2130	#19	12 000	#19	11 600	#16	11 600	#19	11 600	84	#19	840 to 11 500	84	#19	640 to 11 300	84	#16	640 to 11 300	84	#19	640 to 11 300	#13	1710	#16	2100	#19	2200	#13	1000	152	9.17/m	1012.4/m	5
6		2000		300	330	300	2630	#19	12 000	#19	11 600	#19	11 600	#19	11 600	84	#19	840 to 11 500	84	#19	640 to 11 300	84	#19	640 to 11 300	84	#19	640 to 11 300	#13	2210	#16	2600	#19	2200	#13	1000	160	9.77/m	1103.4/m	6
7		2500		300	330	300	3130	#19	12 000	#19	11 600	#19	11 600	#19	11 600	84	#19	840 to 11 500	84	#19	640 to 11 300	84	#19	640 to 11 300	84	#19	640 to 11 300	#13	2710	#16	3100	#19	2200	#13	1000	168	10.37/m	1141.5/m	7
8		3000		300	330	300	3630	#19	12 000	#19	11 600	#19	11 600	#19	11 600	84	#19	840 to 11 500	84	#19	640 to 11 300	84	#19	640 to 11 300	84	#19	640 to 11 300	#13	3210	#16	3600	#19	2200	#13	1000	176	10.97/m	1179.7/m	8
9		3500		300	330	300	4130	#19	12 000	#19	11 600	#19	11 600	#19	11 600	84	#19	840 to 11 500	84	#19	640 to 11 300	84	#19	640 to 11 300	84	#19	640 to 11 300	#16	3710	#16	4100	#19	2200	#13	1000	184	11.57/m	1300.7/m	9
10	4000	2000	15 240	310	340	300	2650	#22	13 600	#19	13 100	#19	13 100	#22	13 100	96	#22	830 to 13 050	96	#19	580 to 12 800	96	#19	580 to 12 800	96	#22	580 to 12 800	#13	2220	#19	2610	#19	2200	#13	1000	168	10.98/m	1370.2/m	10
11		2500		310	340	300	3150	#22	13 600	#19	13 100	#19	13 100	#22	13 100	96	#22	830 to 13 050	96	#19	580 to 12 800	96	#19	580 to 12 800	96	#22	580 to 12 800	#13	2720	#19	3110	#19	2200	#13	1000	176	11.58/m	1413.0/m	11
12		3000		310	340	300	3650	#22	13 600	#19	13 100	#19	13 100	#22	13 100	96	#22	830 to 13 050	96	#19	580 to 12 800	96	#19	580 to 12 800	96	#22	580 to 12 800	#13	3220	#19	3610	#19	2200	#13	1000	184	12.18/m	1455.7/m	12
13		3500		310	340	300	4150	#22	13 600	#19	13 100	#19	13 100	#22	13 100	96	#22	830 to 13 050	96	#19	580 to 12 800	96	#19	580 to 12 800	96	#22	580 to 12 800	#13	3720	#19	4110	#19	2200	#13	1000	192	12.78/m	1498.4/m	13
14		4000		310	340	300	4650	#22	13 600	#19	13 100	#19	13 100	#22	13 100	96	#22	830 to 13 050	96	#19	580 to 12 800	96	#19	580 to 12 800	96	#22	580 to 12 800	#16	4220	#19	4610	#19	2200	#13	1000	200	13.38/m	1635.0/m	14
15	4500	2000	16 970	320	350	300	2670	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	2230	#19	2620	#19	2200	#16	1190	199	12.25/m	1669.7/m	15
16		2500		320	350	300	3170	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	2730	#19	3120	#19	2200	#16	1190	207	12.85/m	1723.6/m	16
17		3000		320	350	300	3670	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	3230	#19	3620	#19	2200	#16	1190	215	13.45/m	1777.5/m	17
18		3500		320	350	300	4170	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	3730	#19	4120	#19	2200	#16	1190	223	14.05/m	1831.4/m	18
19		4000		320	350	300	4670	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	4230	#22	4620	#22	2800	#16	1190	231	14.65/m	1983.0/m	19
20		4500		320	350	300	5170	#22	15 100	#22	14 600	#19	14 600	#22	14 600	108	#22	770 to 14 540	108	#22	520 to 14 290	108	#19	520 to 14 290	108	#22	520 to 14 290	#16	4730	#22	5120	#22	2800	#16	1190	239	15.25/m	2042.3/m	20



#19 200 length – 400 200
#22 250 length – 500 250
A1 BAR
length – 200 200 #19
length – 250 250 #22
A5 BAR
450 Bar length – 450
1:4
E1 BAR #13
LONG WING
Bar length – 550 550
1:2
E1 BAR #13
SHORT WING
F1 Bars @ 150 c/c
G Bars
F2 Bars @ 150 c/c
300 Curb
A5 Bars @ 150 c/c Top of Top Slab
A6 Bars @ 150 c/c Bot. of Top Slab
A7 Bars @ 150 c/c Top of Bot. Slab
A8 Bars @ 150 c/c Bot of Bot. Slab
60° Typ.
Bridge length
℄ Bridge
Clear roadway width
A1, A2, A3 & A4 Bars as shown in typical section.
Curb length = F + 2320
F
C Bars in Exterior walls shall extend 500mm beyond end of barrel, and then shall be field bent for tie to wing reinforcing.
900
A1
E1
250
300
400
D
600
A2
E2
PLAN
A2 600
B2
C2
1500
2 – E1 Bars #13
E2 Bars #13 @ 300 c/c
3 D1 Bars (outside fc.)
3 D3 Bars (inside fc.)
D2 Bars (outside fc.)
D4 Bars (inside fc.)
@ 300 c/c
E3 Bars #13 @ 300 c/c
D5 Bars (inside fc.)
D6 Bars
SHORT WING ELEVATION
900 A1
B1
C1
2 – E1 Bars #13
E2 Bars #13 @ 300 c/c
3 D1 Bars (outside fc.)
3 D3 Bars (inside fc.)
E3 Bars #13 @ 300 c/c
D2 Bars (outside fc.)
D4 Bars (outside fc.)
@ 300 c/c ea. face
D5 Bars (inside fc.)
D6 Bars
LONG WING ELEVATION
outside fc. 300
2 E1 Bars placed as shown
D1 or D2 Bars #13 @ 300 c/c)
D3 or D4 Bars lap with D6 Bars
Varies
E2 Bars #13 @ 300 c/c
D5 Bars @ 300 c/c Alternate with D3 or D4 Bars
400
E3 Bars #13 @ 300 c/c
F1 or F2 Bars 13M @ 150 c/c
D6 Bars @ 300 c/c
400
G Bars #13
75 clr. Bot. of Ftg.
CW3 Bars #13 @ 300 c/c
CW4 Bars #13 @ 300 c/c
4 CW2 Bars #13 @ 300 c/c
4 CW1 Bars #13 @ 300 c/c
SECTION THRU WING
CW1 F plus 70
CW2 F plus 310
CW1 CW2 E1 minus 30 E1 minus 180
500 Lap
60°
CW1 850 CW2 650
CW1 BAR #13
CW2 BAR #13
CW3 CW4 500
1400 1100
CW3 BAR #13 x 1900
CW4 BAR #13 x 1600

NOTE: If rock is ecountered during excavation for curtain walls, the curtain walls will be keyed a minimum of 150 mm into the rock.



CENTERLINE SURVEY or CRL
SKEW ANGLE
90°
350
Clear height plus T1 minus 50
B2 BAR
#19 – 1100
#22 – 1400
1100 #19
1400 #22
B3 BAR
#13 – 750
#16 – 940
250
B4 BAR
Bar Length – 400
400
D5 & D6 BARS
Sym. about Centerline
A1 bars @ 150 c/c
C Bars #13 @ 300 c/c
All C Bars #13 @ 450 c/c except bottom layer of top slab
A2 bars @ 150 c/c
B2 Bars @ 150 c/c
B1 Bars @ 150 c/c
B4 Bars @ 150 c/c
A3 bars @ 150 c/c
40 tall Const. Key
Clear Height
V
T1
T2
75 clr. (Typ.) Bot. of Bot. slab
A4 bars @ 150 c/c
B3 Bars @ 150 c/c
Clear Span
300
T3
TYPICAL CROSS SECTION

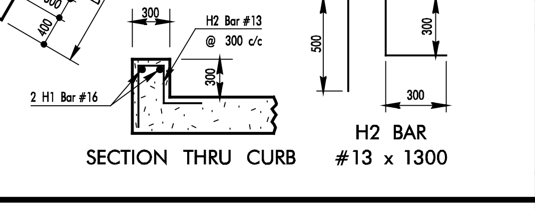
The skew angle is defined as the angle between the line of the structure crossing feature and a line perpendicular to the centerline survey or the CRL (Stationing Line) measured at the centerline station of the structure.

NOTES:
All construction and materials shall be in accordance with the current Oklahoma Standard Specifications.

All concrete edges shall have a 40mm chamfer unless otherwise shown or noted. All chamfer strips shall be sized lumber.

All reinforcing steel shall have 50mm clearance unless otherwise shown or noted.

Roughen surface at all Construction Joints.



300
H2 Bar #13 @ 300 c/c
300
2 H1 Bar #16
SECTION THRU CURB
200
500
300
300
H2 BAR
#13 x 1300

APPROVED BY BRIDGE ENGINEER DATE

OKLAHOMA DEPT. OF TRANSPORTATION
COUNTY BRIDGE STANDARD (METRIC)
TRIPLE CELL REINFORCED CONCRETE BOX
SKEWED 30° R.F. (FILLS LESS THAN 1500mm)

1999 SPECIFICATIONS | RCB3B30RF-I | 00M

ALL DIMENSIONS ON THIS SHEET IN MILLIMETERS UNLESS OTHERWISE NOTED. | CB-06M