DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

July 1, 2002
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Overcomer Y. Hor No. C45803 EXP. 12-31-02 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

Caltrans now has a web site! To get to the web site, go to: http://www.dot.ca.gov

2002 DUAL UNITS STD PLAN C8B

NOTES

1. Use Graphs shown on Standard Plan C8C to determine the type of steel crib to use for the various surcharges on both vertical and batter walls.
2. For non-tangent wall alignment, special length stringers may be required.

STRINGER MEMBERS REQUIRED PER CELL

WALL HEIGHT	SHORT STRINGERS IN FRONT OF WALL									SHORT STRINGERS IN REAR OF WALL								
	1.63 mm (0.064")		2.01 mm (0.079")		2.77 mm (0.109")		3.51 mm (0.138")		Sh't St'r	1.63 mm (0.064")		2.01 mm (0.079")		2.77 mm (0.109")		3.51 mm (0.138")		St'd St'r
	St'd	Short	St'd	Short	St'd	Short	St'd	Short	St'f	St'd	Short	St'd	Short	St'd	Short	St'd	Short	St'f
	2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')		2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')	2896 mm (9.5')	2743 mm (9.0')	
1218 mm (4.00')	1	3							1	3	1							1
1624 mm (5.33')	2	4							1	4	2							1
2030 mm (6.67')	3	5							1	5	3							1
2436 mm (8.00')	4	6							1	6	4							1
2842 mm (9.33')	5	7							1	7	5							1
3248 mm (10.67')	6	8							1	8	6							1
3654 mm (12.00')	6	8							1	8	6							1
4060 mm (13.33')	6	8	2	2					1	8	6	2	2					1
4466 mm (14.67')	6	8	3	3					1	8	6	3	3					1
4872 mm (16.00')	6	8	4	4					1	8	6	4	4					1
5278 mm (17.33')	6	8	4	4	1	1			1	8	6	4	4	1	1			1
5684 mm (18.67')	6	8	4	4	2	2			1	8	6	4	4	2	2			1
6090 mm (20.00')	6	8	4	4	3	3			1	8	6	4	4	3	3			1
6496 mm (21.33')	6	8	4	4	4	4			1	8	6	4	4	4	4			1
6902 mm (22.67')	6	8	4	4	5	5			1	8	6	4	4	5	5			1
7308 mm (24.00')	6	8	4	4	6	6			1	8	6	4	4	6	6			1
7714 mm (25.33')	6	8	4	4	7	7			1	8	6	4	4	7	7			1
8120 mm (26.67')	6	8	4	4	7	7	1	1	1	8	6	4	4	7	7	1	1	1
8526 mm (28.00')	6	8	4	4	7	7	2	2	1	8	6	4	4	7	7	2	2	1
8932 mm (29.33')	6	8	4	4	7	7	3	3	1	8	6	4	4	7	7	3	3	1
9338 mm (30.67')	6	8	4	4	7	7	4	4	1	8	6	4	4	7	7	4	4	1
9744 mm (32.00')	6	8	4	4	7	7	5	5	1	8	6	4	4	7	7	5	5	1
10150 mm (33.33')	6	8	4	4	7	7	6	6	1	8	6	4	4	7	7	6	6	1
10556 mm (34.67')	6	8	4	4	7	7	7	7	1	8	6	4	4	7	7	7	7	1
10962 mm (36.00')	6	8	4	4	7	7	8	8	1	8	6	4	4	7	7	8	8	1

NOTE This table applies only to short panel sections for curved walls and includes stringers for both front and rear of a 2896 mm (9.5') length of wall.

NOTE
This table applies only to standard panel sections and includes stringer members for both front and rear of a 3050 mm (10') length of wall.

SPACER MEMBERS REQUIRED PER TRANSVERSE SECTION

WALL HEIGHT	BEARING PLATE mm (in)	FRONT COLUMN HEIGHT IN MILLIMETERS (FEET)				REAR COLUMN HEIGHT IN MILLIMETERS (FEET)				Total Column Length in Millimeters	Column Splice	Column Cap	SPACERS Thickness				SPACERS Length				BOTTOM SPACERS Thickness				BOTTOM SPACERS Length				STRINGER MEMBERS REQUIRED PER CELL: STRINGERS Thickness				STRINGERS Length				St'r St'f	WALL HEIGHT
	405x560 (16x22)	1st Lift	2nd Lift	3rd Lift	Total Height	1st Lift	2nd Lift	3rd Lift	Total Height				1.63 mm (0.064")	1.63 mm (0.064")	2.77 mm (0.109")	2.77 mm (0.109")	1.63 mm (0.064")	1.63 mm (0.064")	2.77 mm (0.109")	2.77 mm (0.109")	1.63 mm (0.064")	1.63 mm (0.064")	2.77 mm (0.109")	2.77 mm (0.109")	1.63 mm (0.064")	1.63 mm (0.064")	2.77 mm (0.109")	2.77 mm (0.109")	1.63 mm (0.064") 2896 mm (9.5')	2.01mm (0.079") 2896 mm (9.5')	2.77 mm (0.109") 2896 mm (9.5')	3.51mm (0.138") 2896 mm (9.5')	2896 mm (9.5')		
1218 mm (4.00')	2	1218 mm (4.00')			1218 mm (4.00')	406 mm (1.33')			406 mm (1.33')	1624 mm (5.33')		1																	4				1	1218 mm (4.00')
1624 mm (5.33')	2	1624 mm (5.33')			1624 mm (5.33')	812 mm (2.67')			812 mm (2.67')	2436 mm (8.00')		1	1								1								6				1	1624 mm (5.33')
2030 mm (6.67')	2	2030 mm (6.67')			2030 mm (6.67')	1218 mm (4.00')			1218 mm (4.00')	3248 mm (10.67')		1	2								1								8				1	2030 mm (6.67')
2436 mm (8.00')	2	2436 mm (8.00')			2436 mm (8.00')	1624 mm (5.33')			1624 mm (5.33')	4060 mm (13.33')		1	3								1								10				1	2436 mm (8.00')
2842 mm (9.33')	2	2842 mm (9.33')			2842 mm (9.33')	2030 mm (6.67')			2030 mm (6.67')	4872 mm (16.00')		1	4								1								12				1	2842 mm (9.33')
3248 mm (10.67')	2	3248 mm (10.67')			3248 mm (10.67')	2436 mm (8.00')			2436 mm (8.00')	5684 mm (18.67')		1	5	5							1	1							14				1	3248 mm (10.67')
3654 mm (12.00')	2	3654 mm (12.00')			3654 mm (12.00')	2842 mm (9.33')			2842 mm (9.33')	6496 mm (21.33')		1		6								1							14	2			1	3654 mm (12.00')
4060 mm (13.33')	2		1624 mm (5.33')		4060 mm (13.33')	3248 mm (10.67')			3248 mm (10.67')	7308 mm (24.00')	1	1		7								1							14	4			1	4060 mm (13.33')
4466 mm (14.67')	2	2436 mm (8.00')	2030 mm (6.67')		4466 mm (14.67')	3654 mm (12.00')			3654 mm (12.00')	8120 mm (26.67')	1	1		8	8							1	1						14	6			1	4466 mm (14.67')
4872 mm (16.00')	2		2436 mm (8.00')		4872 mm (16.00')		1624 mm (5.33')		4060 mm (13.33')	8932 mm (29.33')	2	1		9	9							1	1						14	8			1	4872 mm (16.00')
5278 mm (17.33')	2		1624 mm (5.33')		5278 mm (17.33')	2436 mm (8.00')	2030 mm (6.67')		4466 mm (14.67')	9744 mm (32.00')	2	1		10	10							1	1						14	8	2		1	5278 mm (17.33')
5684 mm (18.67')	2		2030 mm (6.67')		5684 mm (18.67')		2436 mm (8.00')		4872 mm (16.00')	10556 mm (34.67')	2	1			11	11							1	1				14	8	4		1	5684 mm (18.67')
6090 mm (20.00')	2		2436 mm (8.00')		6090 mm (20.00')		1624 mm (5.33')		5278 mm (17.33')	11368 mm (37.33')	2	1			12	12							1	1				14	8	6		1	6090 mm (20.00')
6496 mm (21.33')	2		2842 mm (9.33')		6496 mm (21.33')		2030 mm (6.67')		5684 mm (18.67')	12180 mm (40.00')	2	1			13	13							1	1				14	8	8		1	6496 mm (21.33')
6902 mm (22.67')	2		3248 mm (10.67')		6902 mm (22.67')		2436 mm (8.00')		6090 mm (20.00')	12992 mm (42.67')	2	1				14	14							1	1			14	8	10		1	6902 mm (22.67')
7308 mm (24.00')	2		3654 mm (12.00')		7308 mm (24.00')		2842 mm (9.33')		6496 mm (21.33')	13804 mm (45.33')	2	1				15	15							1	1			14	8	12		1	7308 mm (24.00')
7714 mm (25.33')	2			1624 mm (5.33')	7714 mm (25.33')		3248 mm (10.67')		6902 mm (22.67')	14616 mm (48.00')	3	1				16	16							1	1			14	8	14		1	7714 mm (25.33')
8120 mm (26.67')	2	3654 mm (12.00')	2436 mm (8.00')	2030 mm (6.67')	8120 mm (26.67')		3654 mm (12.00')		7308 mm (24.00')	15428 mm (50.76')	3	1				17	17							1	1			14	8	14	2	1	8120 mm (26.67')
8526 mm (28.00')	2			2436 mm (8.00')	8526 mm (28.00')	3654 mm (12.00')		1624 mm (5.33')	7714 mm (25.33')	16240 mm (53.33')	4	1					18	18							1	1	14	8	14	4	1	8526 mm (28.00')
8932 mm (29.33')	2			1624 mm (5.33')	8932 mm (29.33')		2436 mm (8.00')	2030 mm (6.67')	8120 mm (26.67')	17052 mm (56.00')	4	1					19	19							1	1	14	8	14	6	1	8932 mm (29.33')
9338 mm (30.67')	2			2030 mm (6.67')	9338 mm (30.67')			2436 mm (8.00')	8526 mm (28.00')	17864 mm (58.67')	4	1					20	20							1	1	14	8	14	8	1	9338 mm (30.67')
9744 mm (32.00')	2		3654 mm (12.00')	2436 mm (8.00')	9744 mm (32.00')			1624 mm (5.33')	8932 mm (29.33')	18676 mm (61.33')	4	1						21									14	8	14	10	1	9744 mm (32.00')
10150 mm (33.33')	2			2842 mm (9.33')	10150 mm (33.33')		3654 mm (12.00')	2030 mm (6.67')	9338 mm (30.67')	19488 mm (64.00')	4	1						22								1	14	8	14	12	1	10150 mm (33.33')
10556 mm (34.67')	2			3248 mm (10.67')	10556 mm (34.67')			2436 mm (8.00')	9744 mm (32.00')	20300 mm (66.67')	4	1						23								1	14	8	14	14	1	10556 mm (34.67')
10962 mm (36.00')	2			3654 mm (12.00')	10962 mm (36.00')			2842 mm (9.33')	10150 mm (33.33')	21112 mm (69.33')	4	1						24								1	14	8	14	16	1	10962 mm (36.00')

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

STEEL CRIB WALL DESIGN DATA

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

C8B