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

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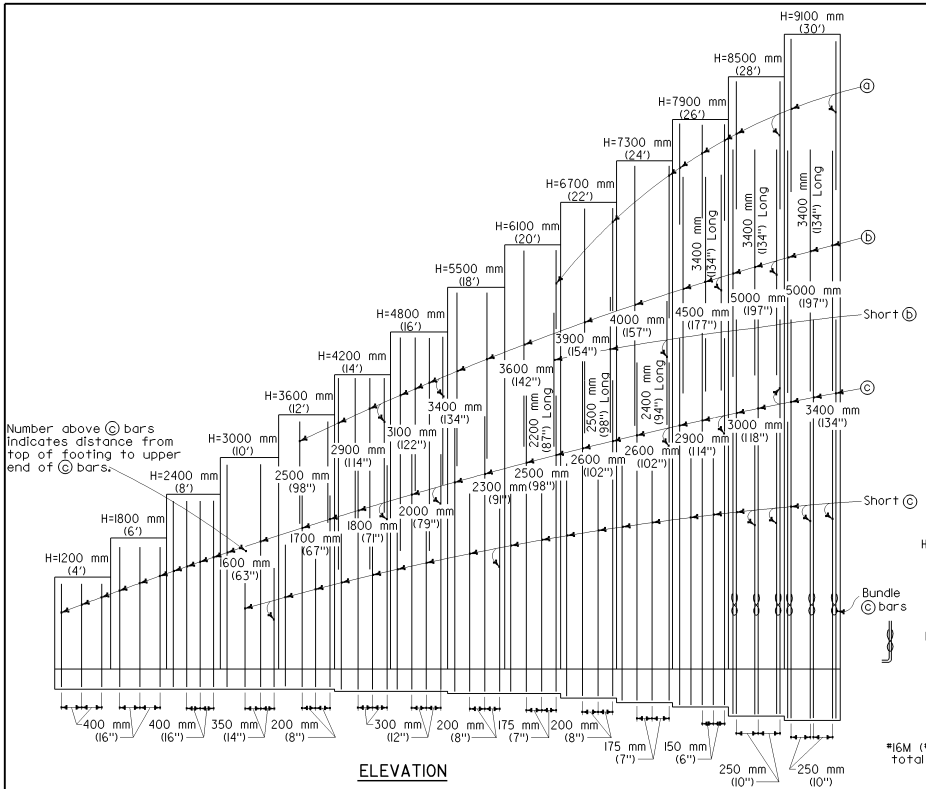
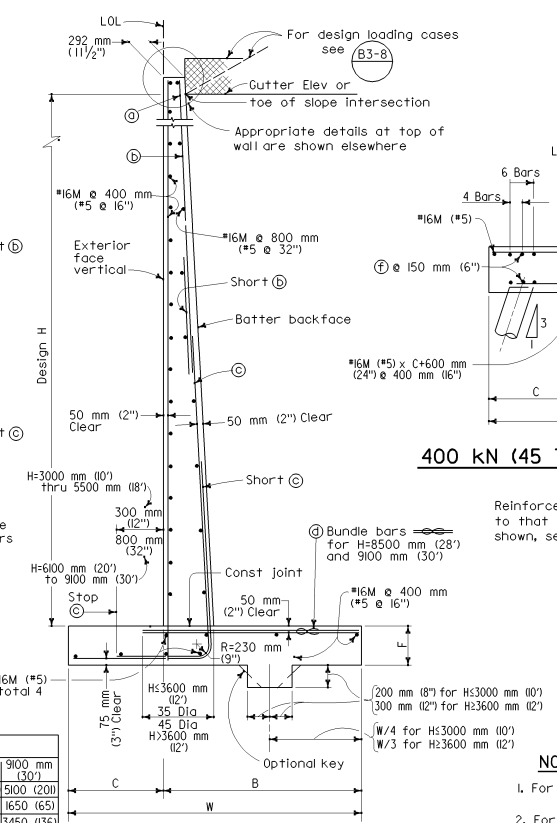
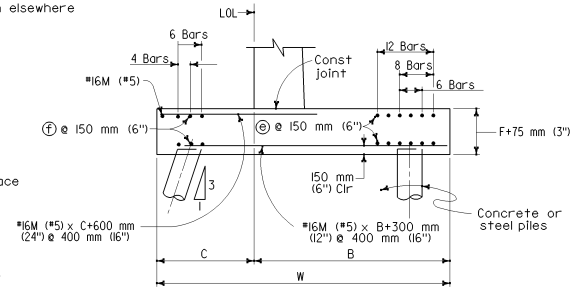


ELEVATION



SPREAD FOOTING SECTION



400 kN (45 Ton) PILE FOOTING SECTION

Reinforcement detailed is to be placed in addition to that shown for spread footing. All piles not shown, see Pile Layout on other sheets.

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

Design H		1200 mm (4')	1800 mm (6')	2400 mm (8')	3000 mm (10')	3600 mm (12')	4200 mm (14')	4800 mm (16')	5500 mm (18')	6100 mm (20')	6700 mm (22')	7300 mm (24')	7900 mm (26')	8500 mm (28')	9100 mm (30')
W mm (in)		1000 (39)	1300 (51)	1600 (63)	1900 (75)	2200 (87)	2450 (96)	2750 (108)	3050 (120)	3350 (132)	3700 (145)	4050 (159)	4350 (171)	4650 (183)	5100 (201)
C mm (in)		300 (12)	400 (16)	500 (20)	600 (24)	700 (28)	800 (31)	900 (35)	1000 (39)	1100 (43)	1200 (47)	1350 (53)	1450 (57)	1550 (61)	1650 (65)
B mm (in)		700 (27)	900 (35)	1100 (43)	1300 (51)	1500 (59)	1650 (65)	1850 (73)	2050 (81)	2250 (89)	2500 (98)	2700 (106)	2900 (114)	3100 (122)	3450 (136)
F mm (in)		400 (15¾)	400 (15¾)	400 (15¾)	400 (15¾)	400 (15¾)	450 (17¾)	450 (17¾)	450 (17¾)	450 (17¾)	500 (19¾)	550 (21¾)	650 (25½)	750 (29½)	850 (33½)
Batter V:H		100:4	100:4	100:4	100:4	100:4	100:4	100:4	100:4	100:4	100:4	100:5	100:6	100:6	100:7
ⓐ bars #M (#) @ mm (in)		—	—	—	—	—	—	—	—	16 (5) @ 700 (28)	16 (5) @ 800 (32)	16 (5) @ 700 (28)	16 (5) @ 300 (12)	16 (5) @ 500 (20)	25 (8) @ 500 (20)
ⓑ bars #M (#) @ mm (in)		—	—	—	—	16 (5) @ 400 (16)	16 (5) @ 300 (12)	16 (5) @ 300 (12)	19 (6) @ 400 (16)	25 (8) @ 350 (14)	25 (8) @ 400 (16)	25 (8) @ 350 (14)	25 (8) @ 300 (12)	25 (8) @ 250 (10)	29 (9) @ 250 (10)
ⓒ bars #M (#) @ mm (in)		16 (5) @ 400 (16)	16 (5) @ 400 (16)	16 (5) @ 400 (16)	19 (6) @ 350 (14)	19 (6) @ 200 (8)	25 (5) @ 300 (12)	29 (9) @ 300 (12)	29 (9) @ 200 (8)	29 (9) @ 175 (7)	36 (11) @ 200 (8)	36 (11) @ 175 (7)	36 (11) @ 150 (6)	36 (11) @ 250 (10)⁄⁄	36 (11) @ 250 (10)⁄⁄
ⓓ bars #M (#) @ mm (in)		16 (5) @ 400 (16)	16 (5) @ 400 (16)	16 (5) @ 400 (16)	16 (5) @ 350 (14)	16 (5) @ 200 (8)	25 (8) @ 300 (12)	29 (9) @ 300 (12)	29 (9) @ 200 (8)	29 (9) @ 175 (7)	36 (11) @ 200 (8)	36 (11) @ 175 (7)	36 (11) @ 150 (6)	36 (11) @ 250 (10)⁄⁄	36 (11) @ 250 (10)⁄⁄
Total ⓔ bars #M (#)		6-19 (6)	6-19 (6)	6-19 (6)	12-19 (6)	12-19 (6)	12-19 (6)	12-19 (6)	8-19 (6)	8-19 (6)	8-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)
Total ⓕ bars #M (#)		—	—	—	6-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)	6-19 (6)	4-16 (5)	4-16 (5)	4-16 (5)	4-16 (5)
Loading Case I	Toe Pressure kPa (k/sf)	80 (1.7)	90 (1.9)	105 (2.2)	120 (2.5)	135 (2.8)	160 (3.3)	170 (3.5)	190 (4.0)	205 (4.3)	220 (4.6)	235 (4.9)	255 (5.3)	275 (5.7)	300 (6.3)
Loading Case II	Toe Pressure kPa (k/sf)	55 (1.1)	70 (1.5)	95 (2.0)	110 (2.3)	130 (2.7)	160 (3.3)	175 (3.7)	200 (4.2)	225 (4.7)	265 (5.5)	285 (6.0)	310 (6.5)	340 (7.1)	360 (7.5)
Loading Case III	Toe Pressure kPa (k/sf)	65 (1.4)	80 (1.7)	100 (2.1)	120 (2.5)	140 (2.9)	165 (3.4)	180 (3.8)	205 (4.3)	230 (4.8)	260 (5.4)	280 (5.8)	310 (6.5)	345 (7.2)	360 (7.5)

⁄⁄ Denotes a bundle of 2 bars

NOTES

1. For details not shown and drainage notes see B3-8
2. For wall stem joint details see B0-3/3-3 and B0-3/3-4
3. For pile footing for design H=1200 mm (4') use same footing dimensions as for design H=1800 mm (6').

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

RETAINING WALL TYPE 1 H=1200 mm THRU 9100 mm (H=4' THRU 30')

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

B3-1

2002 DUAL UNITS STD PLAN B3-1

THIS STANDARD PLAN B3-1 INCLUDES CHANGES THAT WERE INCORPORATED IN REVISED STANDARD PLAN RSP B3-1, DATED OCTOBER 26, 2000, AND ISSUED AS A PART OF ERRATUM NO. 99-1 FOR THE 1999 METRIC STANDARD PLANS.