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

Caltrans Metric

REGISTERED CIVIL ENGINEER

July 1, 2004
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Overcomer Y. Hor No. 45803 Exp. 12-31-06 CIVIL STATE OF CALIFORNIA

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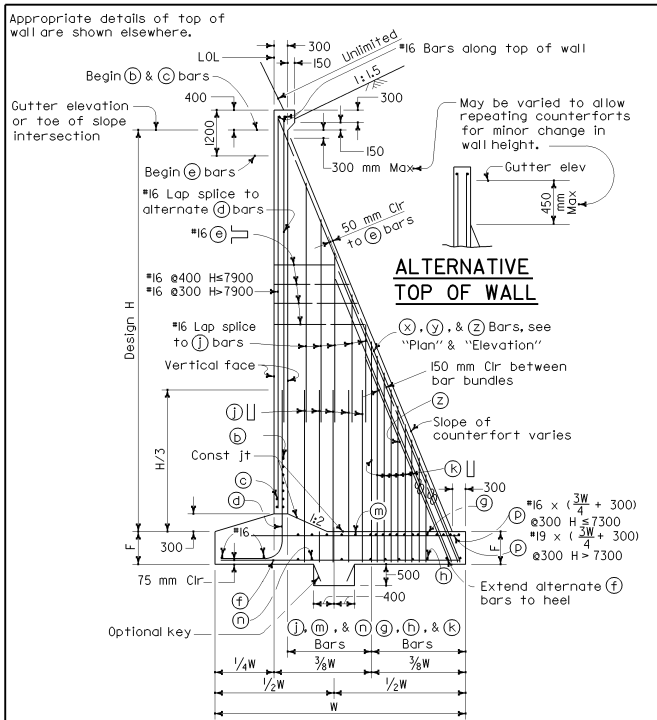
Appropriate details of top of wall are shown elsewhere.



SPREAD FOOTING SECTION

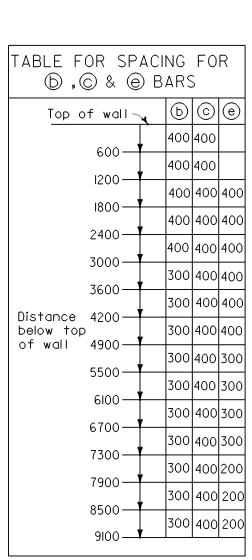
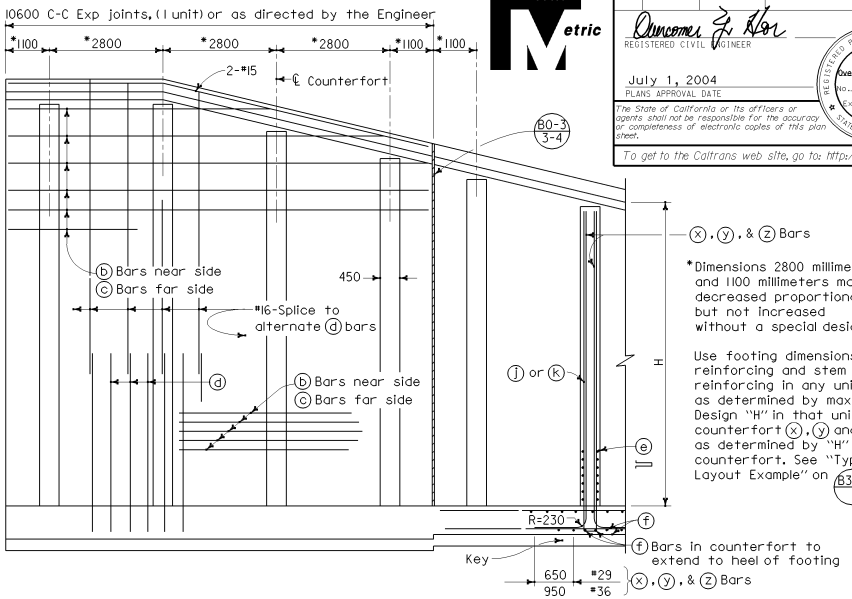


TABLE FOR SPACING FOR ⓑ, ⓒ & ⓔ BARS

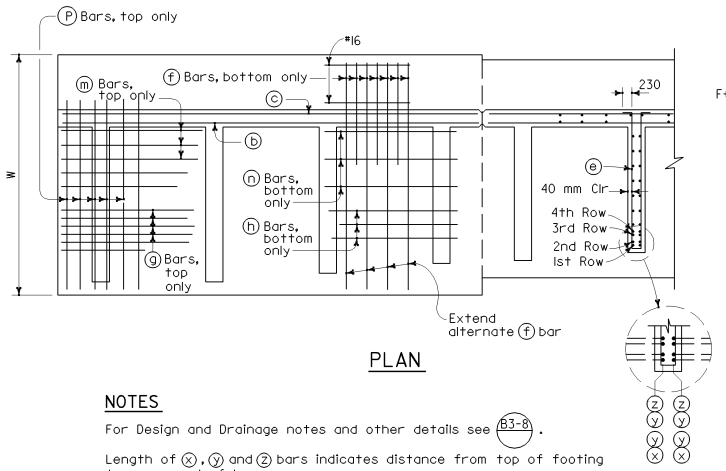
Distance below top of wall (Top of wall)	ⓑ	ⓒ	ⓔ
600	400	400	
1200	400	400	
1800	400	400	400
2400	400	400	400
3000	400	400	400
3600	300	400	400
4200	300	400	400
4900	300	400	400
5500	300	400	300
6100	300	400	300
6700	300	400	300
7300	300	400	300
7900	300	400	200
8500	300	400	200
9100	300	400	200



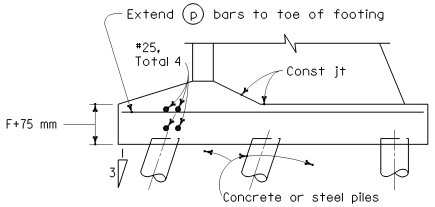
*Dimensions 2800 millimeters and 1100 millimeters may be decreased proportionally but not increased without a special design.

Use footing dimensions and reinforcing and stem reinforcing in any unit as determined by maximum Design "H" in that unit. Use counterfort ⓧ, ⓨ and ⓩ bars as determined by "H" at ℄ counterfort. See "Typical Layout Example" on B3-5.

ELEVATION



PLAN



400 kN PILE FOOTING SECTION

Reinforcement detailed is to be placed in addition to that shown for spread footing. "Provide 150 mm clear to ⓕ bars". All piles not shown, see Pile Layout on other sheets.

TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA							
Design H	5500	6100	6700	7300	7900	8500	9100
W	3950	4300	4750	5150	5600	5950	6400
F	550	650	650	650	700	700	800
ⓧ Bars, edge counterfort	2-#29	2-#29	2-#29	2-#36	2-#36	2-#36	2-#36
ⓧ Bars, length	6300	6900	7550	8200	8850	9550	10200
ⓨ Bars, edge counterfort	4-#29	4-#29	4-#29	4-#36	4-#36	4-#36	4-#36
ⓨ Bars, length	4000	4800	5400	6400	6700	6900	7900
ⓩ Bars, edge counterfort			2-#29	2-#36	2-#36	2-#36	2-#36
ⓩ Bars, length			3200	3700	4100	4200	5000
ⓑ Bars, back face wall	#16		See Table for spacing				
ⓒ Bars, front face wall	#16		See Table for spacing				
ⓓ Bars, wall face	#16 @200	#16 @175	#16 @175	#19 @175	#19 @150	#25 @200	#25 @200
ⓔ Stirrups counterfort	#16		See Table for spacing				
ⓕ Bars, toe	#16 @200	#16 @175	#16 @175	#16 @175	#16 @150	#19 @200	#19 @200
ⓕ Bars, length	1900	2200	2400	2600	2800	3000	3200
ⓙ Bars, counterfort heel	#16 @300	#16 @300	#16 @300	#19 @300	#19 @300	#19 @300	#19 @300
ⓚ Bars, counterfort heel	#16 @150	#16 @150	#16 @150	#19 @150	#19 @150	#19 @150	#19 @150
ⓜ Bars, top of heel	#19 @400	←					→
ⓖ Bars, top of heel	#19 @200	←					→
ⓝ Bars, bottom of heel	#16 @400	←					→
ⓗ Bars, bottom of heel	#16 @200	←					→
Toe Pressure, kPa	310	355	385	415	455	485	520

NOTES

For Design and Drainage notes and other details see B3-8.

Length of ⓧ, ⓨ and ⓩ bars indicates distance from top of footing to upper end of bar.

No other lap splices are allowed except as shown in the plans.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

COUNTERFORT RETAINING WALL TYPE 4

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

B3-6

2004 Std PLAN B3-6

06-07-04