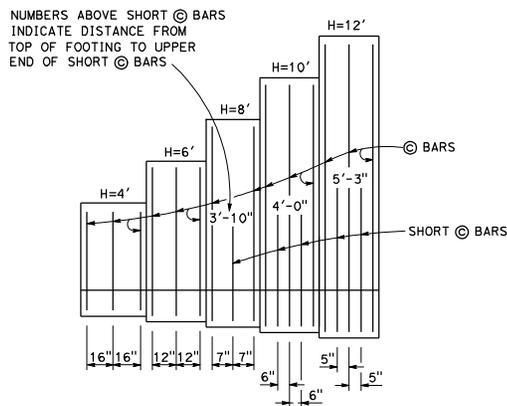


SPREAD FOOTING SECTION

Place concrete in toe against undisturbed material, except as permitted by the Engineer.

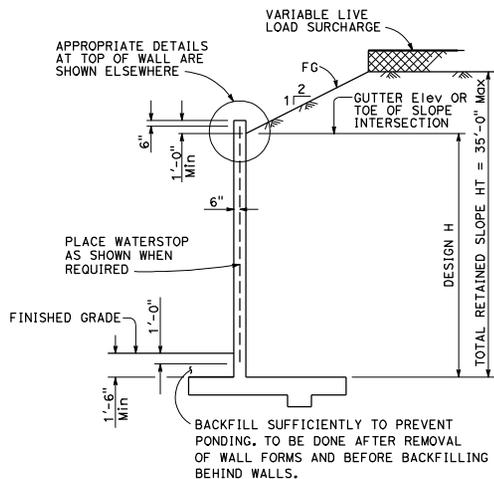


ELEVATION

SYMBOLS:

Ser - service limit state I
 Str - strength limit state I
 Ext - extreme event limit state I
 B' - effective footing width (ft)
 q₀ - net bearing stress (ksf), OG assumed to be FG at toe
 q_o - gross uniform bearing stress (ksf)

TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA					
DESIGN H	4'	6'	8'	10'	12'
W	5'-10"	7'-7"	9'-0"	11'-0"	12'-5"
C	2'-4"	2'-7"	3'-0"	3'-6"	4'-0"
B	3'-6"	5'-0"	6'-0"	7'-6"	8'-5"
F	1'-4"	1'-7"	1'-7"	1'-9"	1'-9"
@ BARS	#5 @ 16	#5 @ 12	#5 @ 7	#6 @ 6	#7 @ 5
⊙ BARS	#5 @ 16	#5 @ 12	#5 @ 7	#6 @ 6	#7 @ 5
Ser: B', q ₀	4.0, 0.8	5.6, 1.0	8.8, 1.1	10.6, 1.3	12.0, 1.6
Str: B', q ₀	1.9, 2.0	3.5, 2.1	4.5, 2.3	6.5, 2.3	7.7, 2.5
Ext: B', q ₀	2.8, 2.3	3.3, 3.3	3.9, 3.9	5.3, 4.1	5.9, 4.5



DESIGN SECTION

D16+	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
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Gary Wong
 REGISTERED CIVIL ENGINEER

April 20, 2012
 PLANS APPROVAL DATE

Gary Wong
 No. C88288
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED _____

DESIGN CONDITIONS:

Design H may be exceeded by 6" before going to the next size. Special footing design is required where foundation material is incapable of supporting bearing stress listed in the table.

DESIGN NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments
- LS: Varied surcharge on level ground surface
- DC: Stem Architectural Treatment of thickness up to 6" of concrete (75 psf) considered
- SEISMIC: k_h = 0.2
 k_v = 0.0
- SOIL: φ = 34°
 γ = 120 pcf
- REINFORCED CONCRETE: f'c = 3,600 psi
 fy = 60,000 psi
- LOAD COMBINATIONS AND LIMIT STATES:
 Service I Q = 1.00DC+1.00EV+1.00EH+1.00LS
 Strength I Q = αDC+βEV+ηEH+1.75LS
 Extreme I Q = 1.00DC+1.00EV+1.00EH+1.00EOD+1.00EOE
- Where:
 Q: Force Effects
 α: 1.25 or 0.90, whichever Controls Design
 β: 1.35 or 1.00, whichever Controls Design
 η: 1.50 or 0.90, whichever Controls Design
 DC: Dead Load of Structure Components
 EH: Horizontal Earth Fill Pressure
 EV: Vertical Earth Pressure from Earth Fill Weight
 LS: Live Load Surcharge
 EOE: Seismic Earth Pressure
 EOD: Soil and Structural and Nonstructural Components Inertia

NOTES:

- For details not shown and drainage notes see (B5-5)
- For wall stem joint details see (B0-3/3-3) and (B0-3/3-4)
- At ⊙ and short ⊙ bars:
 H ≤ 6', no splices are allowed within 1'-8" above the top of footing.
 H > 6', no splices are allowed within H/4 above the top of footing.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
RETAINING WALL TYPE 1A (CASE 2)
 NO SCALE
 RSP B3-3B DATED APRIL 20, 2012 SUPPLEMENTS THE
 STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP B3-3B

2010 REVISED STANDARD PLAN RSP B3-3B