



ELEVATION

- NOTES:**
1. For details not shown and drainage notes see (B3-5)
 2. For wall stem joint details see (B0-3/3-3) and (B0-3/3-4)
 3. At (C) and Short (C) bars:
 $H \leq 6'$, 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.

TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

DESIGN H	32'	34'	36'	
W	21'-0"	23'-0"	25'-0"	
C	7'-0"	7'-4"	8'-0"	
B	14'-0"	15'-8"	17'-0"	
F SPREAD FOOTING	3'-3"	3'-6"	3'-9"	
BATTER	1:12	1:12	1:12	
(A) BARS	#6 @ 16	#6 @ 16	#6 @ 14	
(B) BARS	#9 @ 8	#9 @ 8	#9 @ 7	
(C) BARS	#11 @ 8 $\bar{\bar{y}}$	#11 @ 8 $\bar{\bar{y}}$	#11 @ 7 $\bar{\bar{y}}$	
(D) BARS	#9 @ 8 $\bar{\bar{y}}$	#9 @ 8 $\bar{\bar{y}}$	#9 @ 7 $\bar{\bar{y}}$	
LOAD CASE I	Ser: B', q' _o	18.0, 3.4	20.2, 3.6	22.4, 3.6
	Str: B', q _o	17.0, 5.6	19.3, 5.9	21.4, 6.0
LOAD CASE II	Ser: B', q' _o	18.2, 4.5	20.2, 4.8	22.4, 4.9
	Str: B', q _o	17.3, 7.2	19.3, 7.7	21.4, 7.9
LOAD CASE III	Ser: B', q' _o	14.4, 4.5	16.8, 4.6	19.2, 4.5
	Str: B', q _o	13.2, 7.6	15.8, 7.5	18.2, 7.5

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 table.

DESIGN NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
- LIVE LOAD: Surcharge on level ground surface
- SOIL: $\phi = 34^\circ$
 $\gamma = 120$ pcf
- REINFORCED CONCRETE: $f_y = 60,000$ psi
 $f_c' = 3,600$ psi
 $n = 8$

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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May 20, 2011
 PLANS APPROVAL DATE
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SYMBOLS:

- Ser - service limit state 1
 Str - strength limit state 1
 B' - effective footing width (ft)
 q'_o - net bearing stress (ksf)
 q_o - gross uniform bearing stress (ksf)
 $\bar{\bar{y}}$ - Denotes a bundle of 2 bars

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
RETAINING WALL
TYPE 1
H=32' THROUGH 36'
 NO SCALE

B3-2