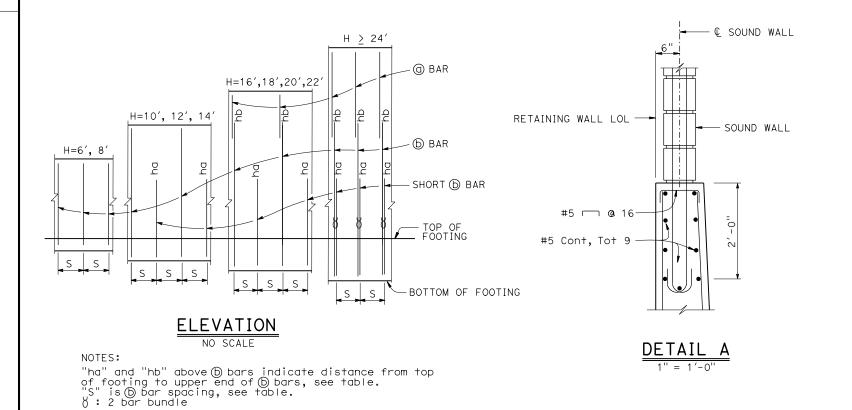
TABLE OF REINFORCING STEEL DIMENSIONS AND DATA														
DESIGN H	6′	8′	10′	12′	14′	16′	18′	20′	22′	24′	26′	28′	30′	32′
W	8'- 3"	8'-6"	9'- 0"	9'- 6"	10'- 0"	10'- 9"	11'- 3"	12'- 0"	13'- 3"	14'- 3"	15'- 9"	16'- 9"	18'- 0"	19'- 9"
С	2'- 9"	2'- 9"	3'- 0"	3'- 3"	3'- 4"	3'- 6"	3'- 9"	4'- 0"	4'- 3"	4'- 9"	5'- 3"	5'- 6"	5'- 9"	6'- 7"
В	5'- 6"	5'- 9"	6'- 0"	6'- 3"	6'- 8"	7'- 3"	7'- 6"	8'- 0"	9'- 0"	9'- 6"	10'- 6"	11'- 3"	12'- 3"	13'- 2"
F PILE FOOTING	1'- 6"	1'- 6"	1'- 6"	1'- 6"	1'- 9"	2'- 0"	2'- 0"	2'- 6"	2'- 9"	2'- 9"	3'- 0"	3'- 3"	3'- 9"	4'- 0"
M	1'- 3"	1'- 3"	1'- 6"	1'- 9"	1'- 10"	2'- 0"	2'- 3"	2'- 6"	2'- 9"	3'- 3"	3'- 9"	4'- 0"	4'- 3"	5'- 1"
N	4'- 0"	4'- 3"	4'- 6"	4'- 9"	5'- 2"	5'- 9"	6'- 0"	6'-6"	7'- 6"	8'-0"	9'- 0"	9'- 9"	10'- 9"	11'- 8"
ROW 1 SPACING	12'- 3"	10'- 3"	8'- 9"	7'- 6"	6'- 3"	5'- 3"	4'- 9"	4'- 0"	3'- 9"	3'- 9"	4'- 0"	3'- 9"	3'- 9"	3'- 9"
ROW 2 SPACING	14'- 0"	12'- 9"	11'- 6"	10'- 3"	9'- 3"	8'- 3"	7'- 9"	6'-6"	7'- 6"	6'- 0"	4'- 0"	4'- 0"	3'- 9"	3'- 9"
ROW 3 SPACING									6'- 0"	5'- 3"	5'- 0"	4'- 0"	6'- 0"	4'- 0"
ROW 4 SPACING													3'- 9"	3'- 9"
BATTER	0	√ ₂ :12	1/2 : 12	√ ₂ :12	¹ / ₂ :12	√ ₂ :12	5⁄8 : 12	5/8 : 12	5/8:12	3/4:12	3⁄ ₄ :12	⅓:12	1:12	1:12
@ BARS						#7 @ 15	#7 @ 12	#7 @ 12	#8 @ 12	#6 @ 6	#6 @ 6	#6 @ 6	#8 @ 9	#9 @ 9
D BARS	#8 @ 12	#7 @ 9	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 7.5	#9 @ 6	#10 @ 6	#10 @ 6	#8 @ 6 B	#8 @ 68	#8 @ 68	#10 @ 98	#11 @ 9 B
ha			5'- 0"	6'- 0"	7'- 0"	7' - 0"	6'- 0"	7'- 0"	7'- 0"	7'- 6"	8'- 6"	9'- 3"	15'- 0"	11'- 3"
hb						11' - 6"	12'- 0"	13'- 3"	16'- 0"	15'- 6"	17'- 6"	18'- 9"	21'- 0"	20'- 9"
© BARS	#6 @ 12	#6 @ 9	#5 @ 6	#6 @ 6	#6 @ 6	#8 @ 7.5	#8 @ 6	#9 @ 6	#9 @ 6	#10 @ 6	#10 @ 6	#11 @ 6	#10 @ 9 B	#10 @ 9 B
(d) BARS	#5 @ 12	#5 @ 9	#5 @ 12	#5 @ 12	#5 @ 12	#6 @ 15	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#7 @ 12	#6 @ 9	#9 @ 9
BARS	10-#7 @ 6	8-#7 @ 7	10-#6 @ 6	8-#6 @ 6	6-#6 @ 12	6-#5 @ 12	6-#5 @ 12	6-#5 @ 15	#5 @ 15	#5 @ 15	#5 @ 15	#5 @ 15	#5 @ 15	#5 @ 15
① BARS	10-#8 @ 7	10-#8 @ 6	10-#7 @ 8	12-#6 @ 7	8-#7 @ 11	8-#6 @ 13	8-#6 @ 12	8-#5 @ 15	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18	#5 @ 18

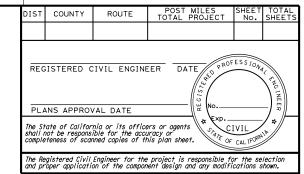
NOTE:

Total @ bars and f bars shown are total number of top and bottom bars combined.

LEGEND:

X: 2 bar bundle





NOTES:

- 1. All piles are class 90 concrete piles.
- 2. Pile batter shown are 1:3.
- 3. Minimum distance between center of pile and edge of footing is 1'-6".
- 4. Lateral resistance of each pile: 30 kip for strength limit states.
 40 kip for extreme limit states.
 Pile group reduction factors are not applied, unless soil passive resistance on footing is included.
- 5. Maximum spacing between piles is shown in the table. Reduce to suit the length of footing.
- 6. Minimum distance between any two piles is 3'-0". Reduce to suit the length of footing.
- 7. For sound wall and retaining wall architectural finish or texture, see details elsewhere in Project Plans.

Force Effects

EV: Vertical Earth Fill Pressure

1.25 or 0.90, Which ever Controls Design 1.35 or 1.00, which ever Controls Design Dead Load of Structure Components

LS: Live Load Surcharge
EQE: Seismic Earth Pressure
EQD: Soil and Structure Components Inertia.
Soil inertia ignored for stem design
WS: Wind Load on Sound Wall and Barrier

- 8. For details not shown and drainage notes, see (B3-5)
- 9. Footing cover, 1'-6" minimum.

Where:

10. For sound wall and reinforcements see "SOUND WALL -MASONRY BLOCK ON RETAINING WALL" sheets.

DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments

WS: 33 psf on sound wall

LS: Varied surcharge on level ground surface

EQE: Mononabe-Okabe Method

 $K_{h} = 0.3$ K_V = 0.0

Soil: $Ø = 34^{\circ}$

 $\gamma = 120 \text{ pcf}$

Reinforced

Concrete: f'c = 3600 psi fy = 60,000 psi

Load Combinations and Limit States

Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS

Strength I Q=aDC+BEV+1.50EH+1.75LS

Service II Q=1.00DC+1.00EV+1.00EH+1.00WS

Q=1.25DC + 1.35EV + 0.90EH + 1.75LS (for piles at heel)

Strength III Q=aDC+BEV+1.50EH+1.40WS

Strength V Q=aDC+BEV+1.50EH+1.35LS+0.40WS

Extreme I Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE

xs14-310-1	October 2014 APPROVAL DATE	RD DETAILS The components of the Bridge Standard Details have been prepared under the responsible charge of the Technical Owner, a registered civil engineer in the State of California					CALI	ATE OF FORN		DIVISION OF ENGINEERING SERVICES	POST MILE	RETAININ	G WALL TYPE	1SWP-DETAILS	No. 1
		of California ual/bridgemanuals/bridge-standard-detail-	FILE => xs14-310-1.dgn USERNAME => s136236	TIME PLOTTED => 10:45	DATE PLOTTED => 18-JUL-2016	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	DEPARTMENT	UF TRANSPUR	3	UNIT: PROJECT NUMBER & PHASE:	CONTRACT		DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES 6-19-14 8-24-15 7-14-16 8-19-15	SHEET OF