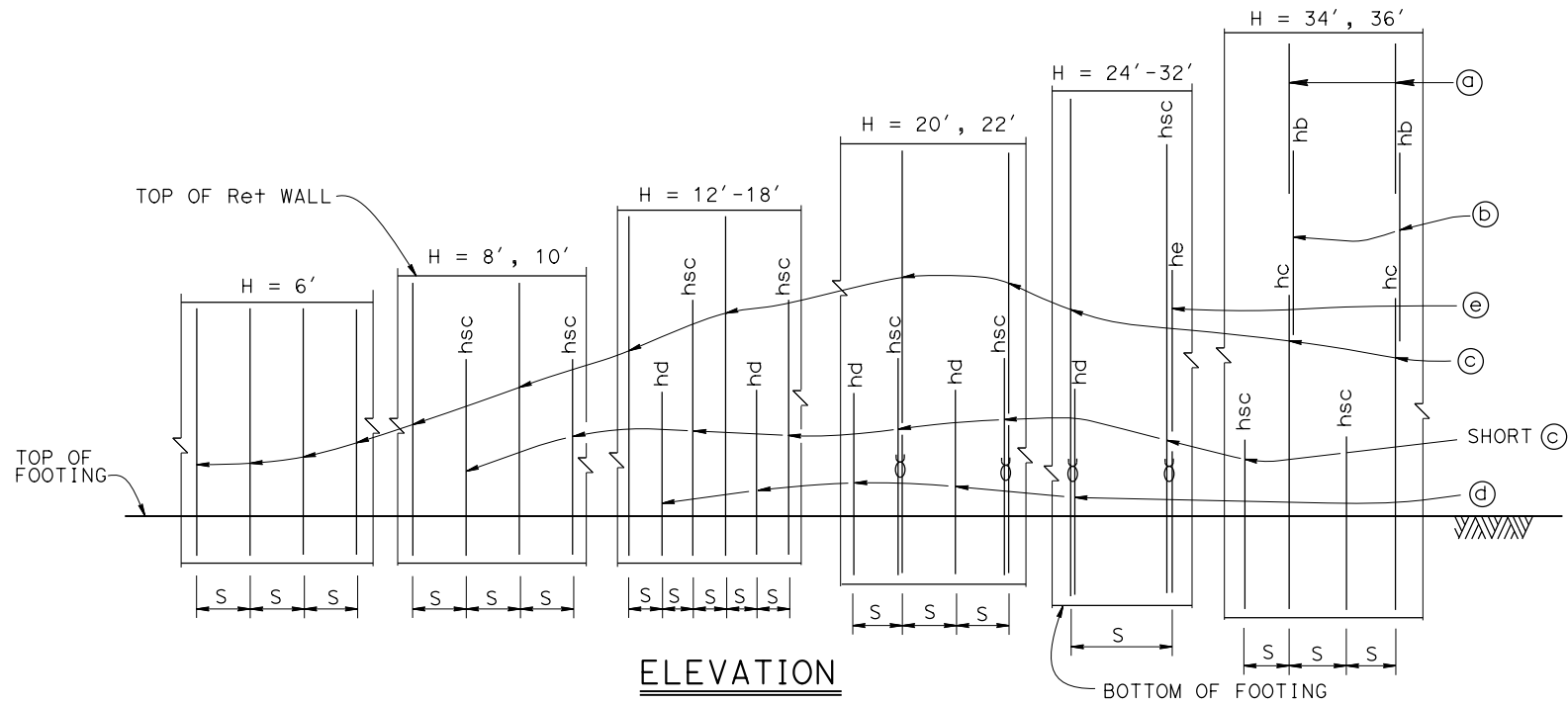




LEGEND:
Ø : Bundled Reinforcement
SER: Service limit state
STR: Strength limit state
EXT: Extreme event limit state
B': Effective footing width (ft)
q₀: Net bearing stress (ksf)
q_u: Gross uniform bearing stress (ksf)
To: Anchor Lock off Load (kip/ft)
Tp: Anchor Factored Test Load (kip/ft)
*: Values to be determined by Designer
(Remove this note afterwards)

- NOTES:
- "hb", "hsc", "hc", "hd" and "he" above bars indicates distance from top of footing to upper end of bars, see Table.
 - "S" is © and @ bar spacing, see Table.
 - Minimum lap splice for ©, © and © bars is 45x reinforcement diameter of the smaller spliced bar. Lap splice begin at "hb" or "hc" above footing.
 - © Bar spacing shown is along the length of the retaining wall.
 - Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the Table.

TABLE OF WALL DIMENSIONS, REINFORCING STEEL AND DATA

Design Height, H	STEM WITH HAUNCH			STEM WITHOUT HAUNCH													
	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'	26'	28'	30'	32'	34'	36'	
Footing Width, W	8'-3"	8'-3"	8'-3"	8'-3"	10'-0"	8'-3"	8'-6"	9'-0"	10'-0"	10'-9"	11'-9"	12'-6"	13'-6"	14'-6"	15'-6"	16'-0"	
Footing Toe, C	7'-0"	7'-0"	6'-9"	6'-6"	8'-3"	6'-6"	6'-6"	6'-9"	7'-6"	8'-0"	9'-0"	9'-0"	9'-9"	10'-6"	11'-6"	11'-9"	
Footing Heel, B	1'-3"	1'-3"	1'-6"	1'-9"	1'-9"	1'-9"	2'-0"	2'-0"	2'-6"	2'-9"	2'-9"	3'-6"	3'-9"	4'-0"	4'-0"	4'-3"	
Footing Thickness, F	1'-9"	1'-9"	1'-9"	1'-9"	2'-0"	2'-4"	2'-6"	2'-6"	2'-9"	2'-9"	3'-0"	3'-3"	3'-6"	3'-9"	3'-9"	4'-0"	
Stem Thickness at Top	-	-	-	1'-7"	1'-7"	1'-7"	1'-9"	1'-9"	1'-9"	2'-0"	2'-0"	2'-0"	2'-3"	2'-3"	2'-3"	2'-6"	
Stem Thickness at Haunch	1'-0"	1'-0"	1'-3"	-	-	-	-	-	-	-	-	-	-	-	-	-	
Batter	0	0	0	0	0	0	0	0	1/4:12	1/4:12	1/4:12	1/2:12	1/2:12	1/2:12	1/2:12	1/2:12	
S	0'-9"	0'-9"	0'-9"	0'-6"	0'-52/3"	0'-5"	0'-41/3"	0'-8"	0'-71/2"	0'-9"	0'-71/2"	0'-8"	0'-7"	0'-6"	0'-6"	0'-51/2"	
Ⓐ BARS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#5	#5	
Ⓑ BARS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#8	#7	
"hb"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28'-3"	29'-0"	
Ⓒ BARS	#6	#6	#6	#5	#5	#5	#5	#5 Ø	#5 Ø	#5	#5	#5	#5	#5	#11	#11	
"hsc"	-	7'-10"	9'-10"	11'-10"	13'-10"	13'-6"	11'-6"	17'-3"	16'-3"	20'-0"	18'-9"	20'-6"	21'-6"	23'-0"	17'-0"	17'-9"	
"hc"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22'-0"	25'-0"	
Ⓓ BARS	-	-	-	#5	#7	#7	#7	#10	#10	#7	#7	#7	#7	#7	-	-	
"hd"	-	-	-	3'-3"	5'-6"	6'-0"	6'-6"	11'-3"	12'-0"	13'-0"	16'-6"	16'-0"	17'-0"	19'-3"	-	-	
Ⓔ BARS	-	-	-	-	-	-	-	-	-	#10	#10	#11	#11	#11	-	-	
"he"	-	-	-	-	-	-	-	-	-	12'-9"	13'-6"	14'-0"	12'-3"	16'-6"	-	-	
Ⓕ BARS	-	-	-	-	-	#5 @ 15	#5 @ 13	#5 @ 16	#6 @ 15	#7 @ 18	#5 @ 15	#8 @ 16	#7 @ 14	#7 @ 12	#5 @ 6	#5 @ 51/2	
Bar Bundled With Ⓓ in ftg	-	-	-	-	-	SHORT Ⓒ	SHORT Ⓒ	Ⓓ	Ⓓ	SHORT Ⓒ & Ⓔ	SHORT Ⓒ & Ⓔ	SHORT Ⓒ & Ⓔ	SHORT Ⓒ & Ⓔ	SHORT Ⓒ & Ⓔ	Ⓒ & SHORT Ⓒ	Ⓒ & SHORT Ⓒ	
Ⓖ BARS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	#5 @ 24	#5 @ 11	
Ⓖ BARS	#4 @ 12	#4 @ 12	#5 @ 15	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#6 @ 12	#7 @ 12	#7 @ 12	#7 @ 12	#7 @ 12	
Ⓙ BARS	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#4 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	#5 @ 12	
Td (kip/ft)	0	0	0	0	0	3	6.75	9.75	11.25	12.75	13.5	18.75	19.5	21.75	21.75	26.25	
To (kip/ft)	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	
Tp = Larger of 1.33 Td & 1.25 To (kip/ft)	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	
Max Anchor Spacing	-	-	-	-	-	10'-6"	10'-6"	8'-3"	6'-3"	7'-9"	7'-3"	7'-0"	6'-9"	6'-0"	6'-0"	5'-0"	
SER I: B' (ft), q0 (ksf)	8.6, 0.3	8.1, 0.4	7.6, 0.5	7.1, 0.8	8.9, 0.7	5.8, 1.9	6.1, 2.7	6.5, 3.3	7.1, 3.5	7.8, 3.7	8.7, 3.6	9.1, 4.5	10.0, 4.5	10.7, 4.6	11.6, 4.5	12.1, 5.0	
STR Ia: B' (ft), q0 (ksf)	8.3, 1.0	7.6, 1.2	7.0, 1.4	6.2, 1.8	8.0, 1.8	4.7, 3.8	4.9, 4.9	5.2, 5.7	5.8, 6.3	6.2, 6.4	6.7, 6.4	7.3, 7.6	8.1, 7.6	8.6, 7.9	9.4, 7.7	9.8, 8.6	
STR, Ib: B' (ft), q0 (ksf)	7.8, 0.8	6.9, 1.0	6.0, 1.3	5.0, 1.8	6.6, 1.7	3.4, 4.4	3.8, 5.4	4.1, 6.1	4.6, 6.4	5.0, 6.9	5.2, 7.1	5.9, 8.2	6.6, 8.1	7.0, 8.5	7.6, 8.3	8.0, 9.1	
Ext I: B' (ft), q0 (ksf)	7.9, 0.8	7.1, 0.9	6.2, 1.2	5.0, 1.7	6.3, 1.8	2.8, 5.2	2.9, 7.1	3.2, 8.3	3.5, 9.3	3.6, 9.6	4.6, 11.3	4.3, 11.5	4.6, 11.7	4.9, 12.4	5.2, 12.2	5.3, 13.8	
Ext II: B' (ft), q0 (ksf)	2.8, 2.0	2.9, 2.3	3.2, 2.4	3.3, 2.7	6.0, 1.7	3.8, 3.6	4.7, 4.1	5.6, 4.5	6.5, 4.5	7.4, 4.5	8.8, 5.1	9.0, 5.1	10.1, 5.1	10.9, 5.2	11.9, 4.9	12.4, 5.4	

NO SCALE

BRIDGE STANDARD DETAILS		DESIGN	BY X	CHECKED X	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE No.	X					
x814-375-2 FILE NO.	August 2026 APPROVAL DATE	DETAILS	BY X	CHECKED X			XX-XXXX						
		QUANTITIES	BY X	CHECKED X			POST MILE X.X						
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html					DATE PLOTTED => 31-AUG-2026 FILE => x814-375-2.dgn	TIME PLOTTED => 14:11 USERNAME => s136247	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	UNIT: XXXX PROJECT NUMBER & PHASE: XXXXXXXXXX1	COUNTY/ROUTE/ZONE: XXX/XXX/X CONTRACT No.: XX-XXXXX4	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET X	OF X