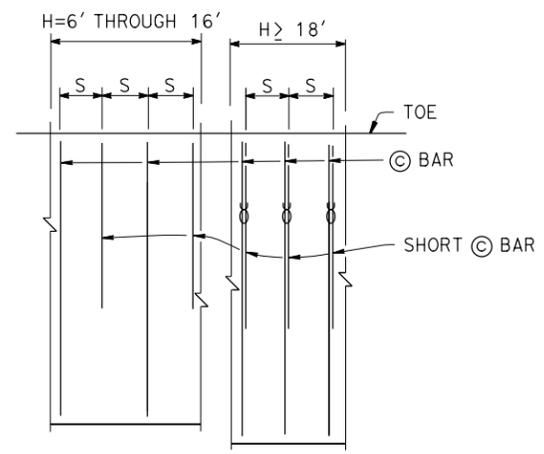
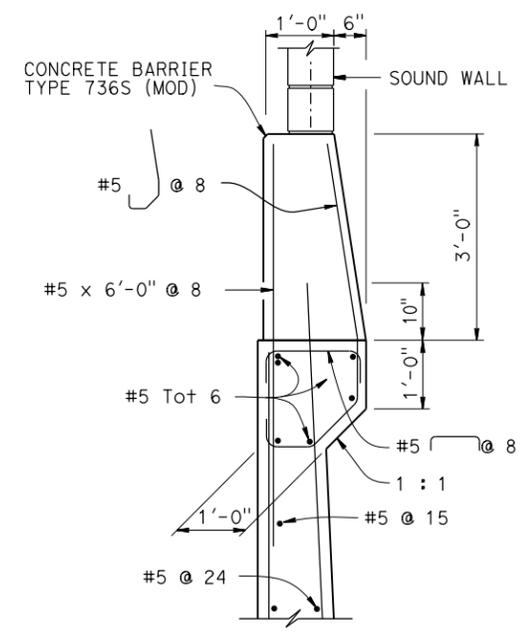


DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE					
<small>The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.</small>					
<small>The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.</small>					



PLAN
NO SCALE

NOTES:
Only © bars shown
"S" is © bar spacing, see table
⌘ indicates 2 bar bundle.



DETAIL A
3/4" = 1'-0"

DESIGN DATA

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

WS: 33 psf on sound wall and barrier
LS: Varied surcharge on level ground surface
CT: 54 kip maximum traffic impact loading evenly distributed over 10 feet at top of the barrier and 1:1 distribution down and outward

EQE: Mononabe-Okabe Method
K_h = 0.3
K_v = 0.0

Soil: φ = 34°
γ = 120 pcf

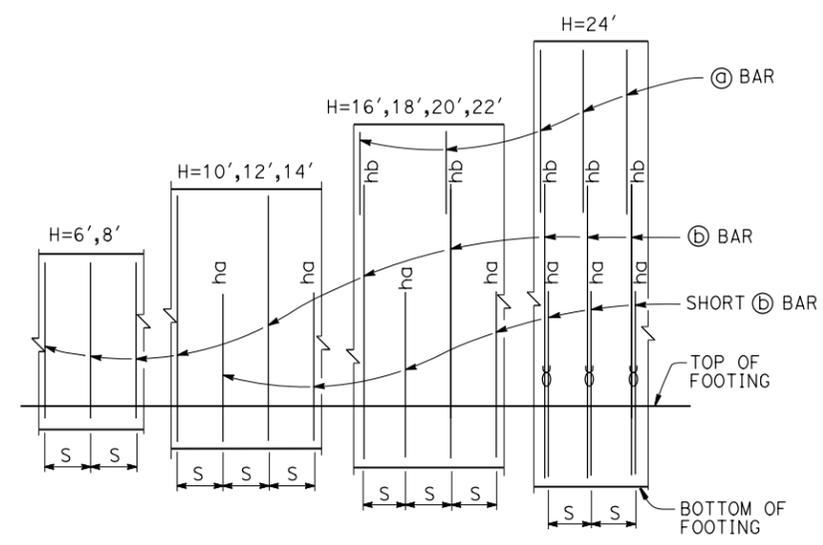
Reinforced Concrete: f'_c = 3600 psi
f_y = 60,000 psi

Load Combinations and Limit States

Service I Q=1.00DC+1.00EV+1.00EH+1.00LS+0.30WS
Service II Q=1.00DC+1.00EV+1.00EH+1.00WS
Strength I Q=aDC+BEV+1.50EH+1.75LS
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
Extreme II Q=1.00DC+1.00EV+1.00EH+1.00CT

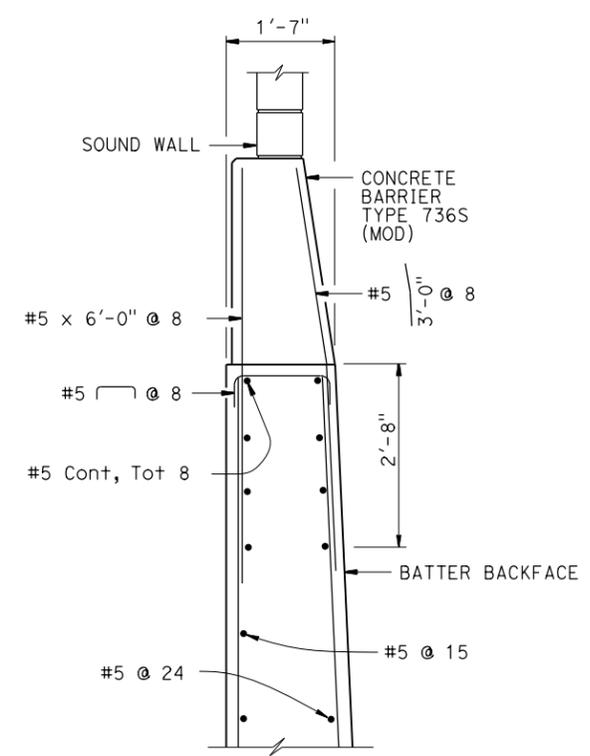
Where:

Q: Force Effects
a: 1.25 or 0.90, Which ever Controls Design
B: 1.35 or 1.00, which ever Controls Design
DC: Dead Load of Structure Components
EV: Vertical Earth Fill Pressure
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
CT: Vehicular Collision Force



ELEVATION
NO SCALE

NOTES:
"ha" and "hb" above © bars indicate distance from top of footing to upper end of © bars, see table.
"S" is © bar spacing, see table.
⌘ indicates 2 bar bundle.



OPTIONAL DETAIL A
3/4" = 1'-0"

For details not shown, see "DETAIL A"

BRIDGE STANDARD DETAILS			STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL TYPE 5SWBP-DETAILS No. 2	
xs14-370-2	October 2014	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.	DEPARTMENT OF TRANSPORTATION				POST MILE			
FILE NO.	APPROVAL DATE									
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html			FILE => xs14-370-2.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: PROJECT NUMBER & PHASE:	CONTRACT NO.:
USERNAME => s136236	TIME PLOTTED => 10:46	DATE PLOTTED => 18-JUL-2016							DISREGARD PRINTS BEARING EARLIER REVISION DATES	
									REVISION DATES	
									SHEET OF	
									6-19-14 8-6-14 7-14-16	