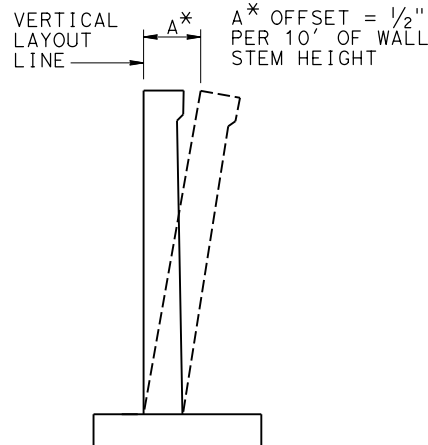


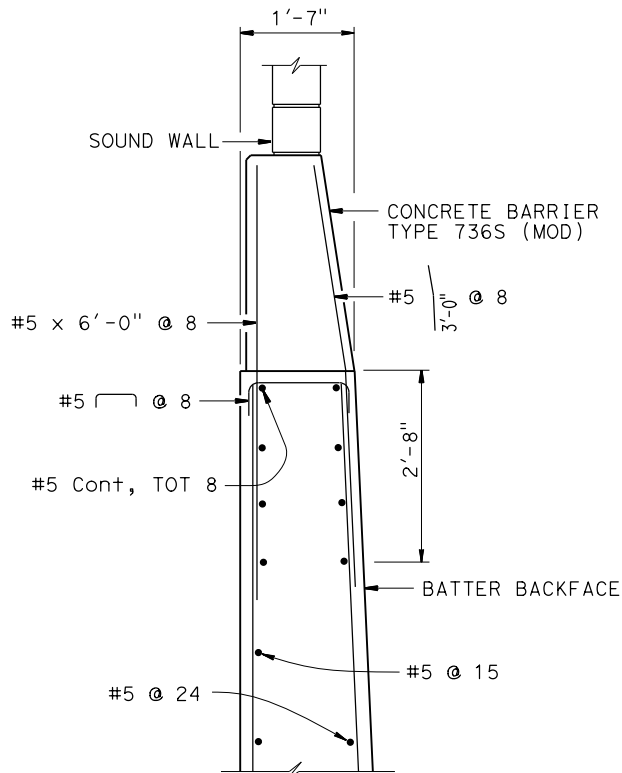
ELEVATION
NO SCALE

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



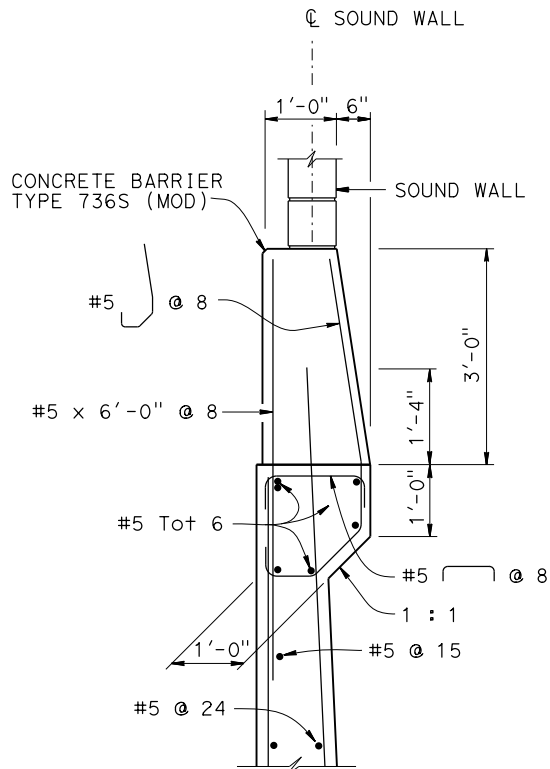
WALL OFFSET
NO SCALE

Values for offsetting forms to be determined by the Engineer



OPTIONAL DETAIL A

3/4 = 1'-0"
For Details not shown, see "DETAIL A"



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: $\phi = 34^\circ$
 $\gamma = 120$ 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 $Q = aDC + \beta EV + 1.50EH + 1.75LS$

Strength III $Q = aDC + \beta EV + 1.50EH + 1.40WS$

Strength V $Q = aDC + \beta EV + 1.50EH + 1.35LS + 0.40WS$

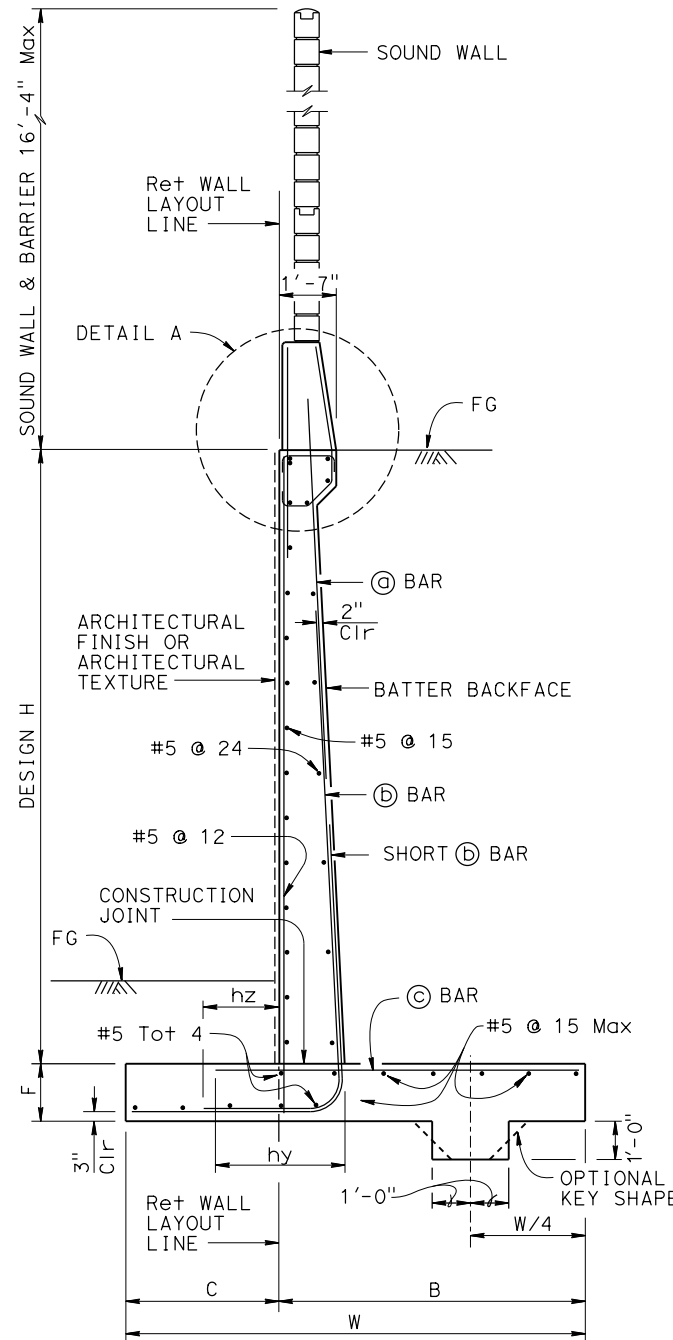
Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EQD + 1.00EQE$

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

NOTES:

- For sound wall and retaining wall Architectural finish or texture see details elsewhere in Project Plans
- For details not shown and drainage notes see B3-5
- Footing cover, 1'-6" minimum.
- For sound wall and barrier reinforcement details, see "SOUND WALL - MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
- For $H = 6'$ through $14'$, extend B bars into Barrier for stem with haunch.
- For $H \geq 16'$, extend @ bars into Barrier for stem with haunch.
- For $H \leq 8'$, provide additional #6 @ 12 B bars over a distance of 8'-0" measured from all expansion joints, begin wall and end wall locations.



SPREAD FOOTING SECTION

NO SCALE

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
REGISTERED CIVIL ENGINEER			DATE		
PLANS APPROVAL DATE			No.		
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.			EXP. CIVIL		
The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.			STATE OF CALIFORNIA		

BRIDGE STANDARD DETAILS			STATE OF CALIFORNIA		DIVISION OF ENGINEERING SERVICES		BRIDGE NO.		RETAINING WALL TYPE 1SWB-DETAILS No. 1						
xs14-220-1	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								
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html	FILE NO.	APPROVAL DATE	FILE => xs14-220-1.dgn	ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0	1	2	3	UNIT: PROJECT NUMBER & PHASE:	CONTRACT NO.:					
			USERNAME => s136236	TIME PLOTTED => 10:45	DATE PLOTTED => 18-JUL-2016			DISREGARD PRINTS BEARING EARLIER REVISION DATES			REVISION DATES	SHEET	OF		
									6-19-14			8-6-14	7-14-16		