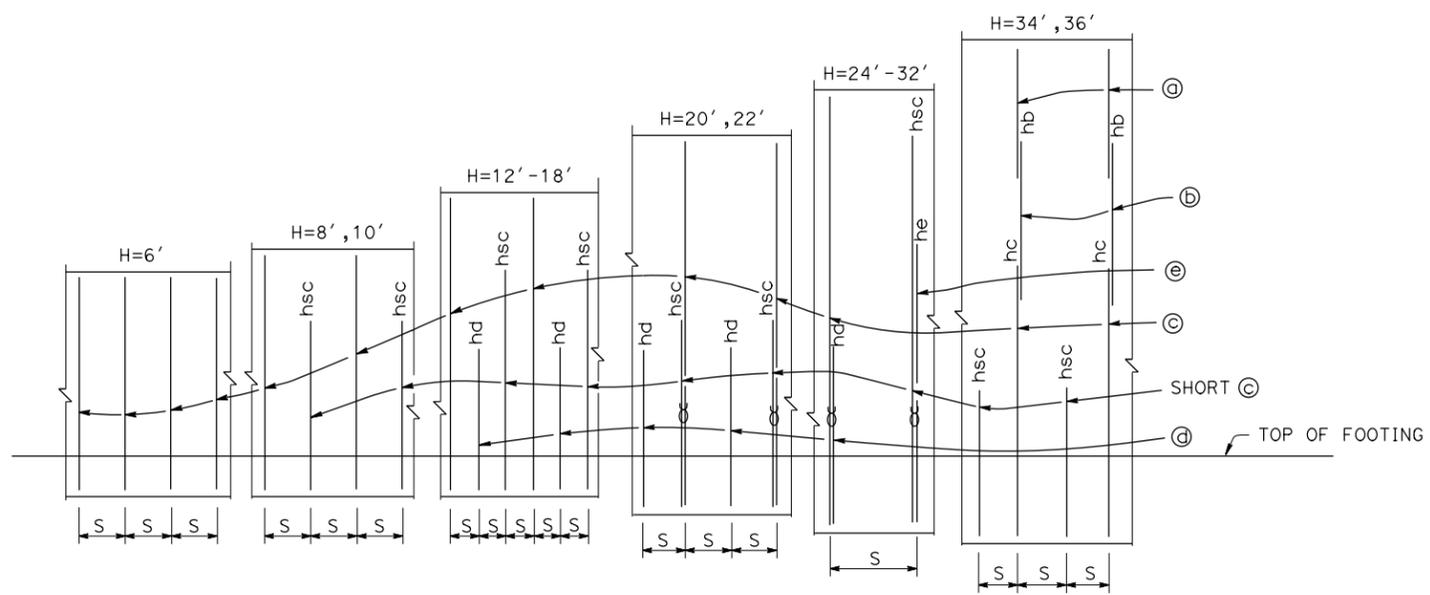


DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

REGISTERED CIVIL ENGINEER X DATE X
 PLANS APPROVAL DATE X
 No. X
 Exp. X
 CIVIL
 STATE OF CALIFORNIA



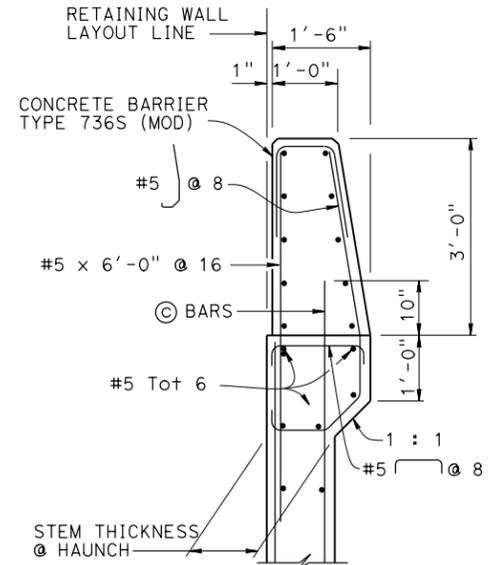
ELEVATION
NO SCALE

NOTE:
 "hb", "hsc", "hc", "hd" and "he" above bars indicate distance from top of footing to upper end of the bars, see table.

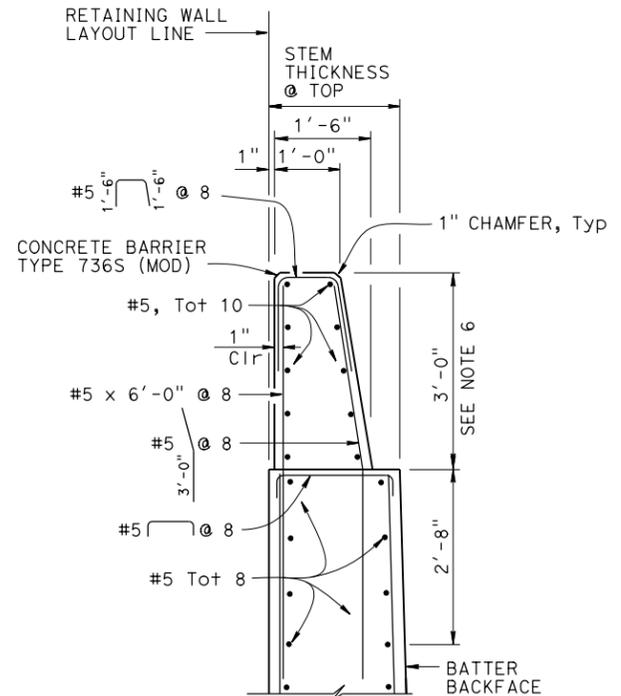
DESIGN DATA

Design: AASHTO LRFD Bridge Design Specifications, 4th edition with California Amendments
 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
 $K_h = 0.2$
 $K_v = 0.0$
 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 $Q=1.00DC+1.00EV+1.00EH+1.00LS+Td$
 Strength I $Q=aDC+\beta EV+1.50EH+1.75LS+Td$
 Extreme I $Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE+Td$
 Extreme II $Q=1.00DC+1.00EV+1.00EH+1.00CT+Td$

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
 CT: Vehicular Collision Force
 Td: Anchor Design Load

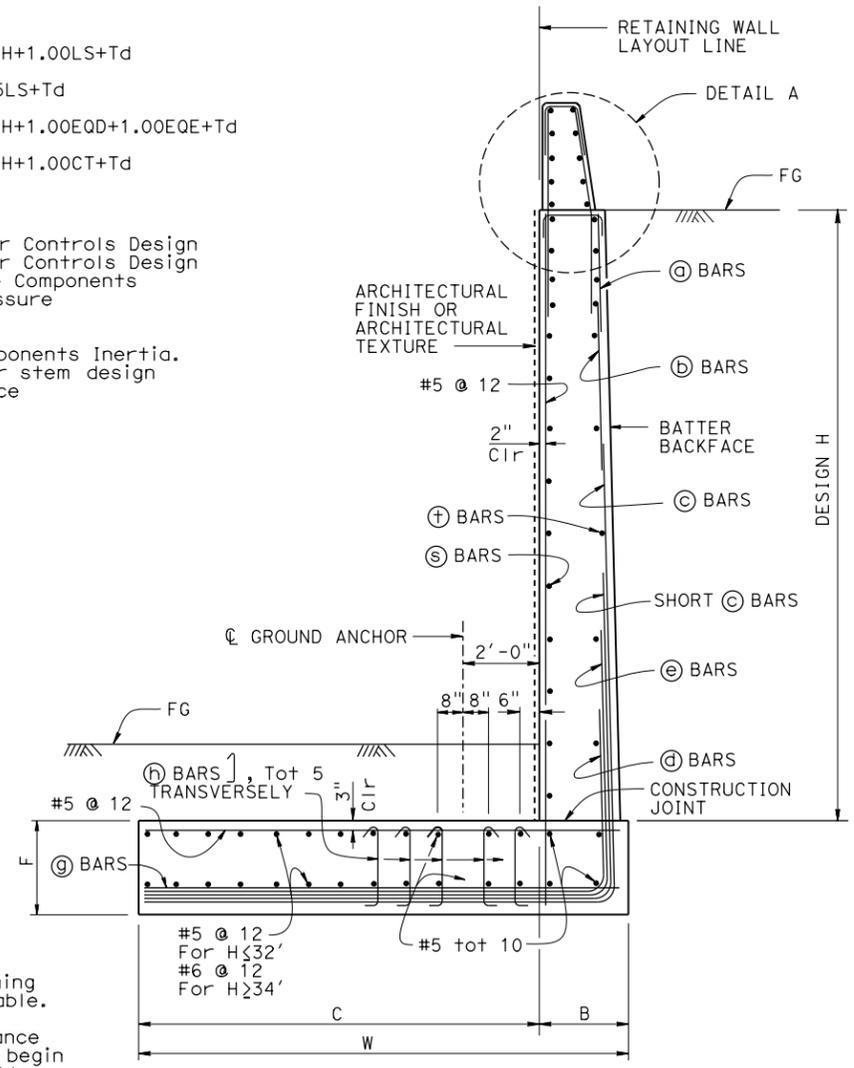


DETAIL A - WITH HAUNCH
 $\frac{3}{4} = 1'-0"$
 For Details not shown, see "DETAIL A - WITHOUT HAUNCH"



DETAIL A - WITHOUT HAUNCH
 $\frac{3}{4} = 1'-0"$

- NOTES:
- For Retaining wall Architectural finish or texture see Details elsewhere in Project Plans
 - For Details not shown and Drainage Notes see (3-5)
 - Footing cover, 2'-0" minimum.
 - For H=6' through 10', extend © bars into Barrier for stem with haunch.
 - Shift © bars, © bars and © bars as required to clear formed hole for ground anchor.
 - Dimensions may vary with roadway cross slope and with certain thickness of surfacing. See Project Plans.
 - Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the table.
 - Provide #6 @ 12" X 16'-0" © bar over a distance of 8'-0" measured from all expansion joints begin wall and end wall locations. For H≤14' hook © bar into footing and reduce bar length as needed to maintain Min Clr cover.



SPREAD FOOTING SECTION
NO SCALE

STANDARD DRAWING	
FILE NO. xs14-375-1	APPROVAL DATE October 2014

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION		DIVISION OF ENGINEERING SERVICES	
BRIDGE NO. X	POST MILE X	RETAINING WALL TYPE 7B - DETAILS No. 1	

BRIDGE NO. X		POST MILE X		RETAINING WALL TYPE 7B - DETAILS No. 1	
UNIT: X	PROJECT NUMBER & PHASE: X	CONTRACT NO.: X	REVISION DATES	SHEET X	OF X
DISREGARD PRINTS BEARING EARLIER REVISION DATES			6-19-14 8-6-14		