

DESIGN DATA

Design:	AASHT 4th e	O LRFD Bridge Design Specifications, dition with California Amendments							
WS:		f on Sound wall and Barrier							
LS:	Varie	d surcharge on level ground surface							
CT:	54 kip maximum traffic impact loading eve distributed over 10 feet at top of the ba and 1:1 distribution down and outward								
EQE:	Monon	abe-Okabe Method = 0.3							
Soil:		0 = 34° y = 120 pcf							
Reinforced Concrete: f'c = 3600 psi fy = 60,000 psi									
Load Co	mbinat	ions 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+Td							
Strength I		Q=aDC+BEV+1.50EH+1.75LS+Td							
Strength III		Q=aDC+BEV+1.50EH+1.40WS+Td							
Strength V		Q=aDC+BEV+1.50EH+1.35LS+0.40WS+Td							
Extreme I		Q=1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE+							
Extreme II		Q=1.00DC+1.00EV+1.00EH+1.00CT+Td							

Where: Q:

Force Effects 1.25 or 0.90, Which ever Controls Design 1.35 or 1.00, which ever Controls Design Dead Load of Structure Components а: В: DC:

#5 @ 12, Typ

- 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
- Td: Anchor Design Load
- 1. For Sound wall and Retaining wall Architectural finish or texture see Details elsewhere in Project Plans.
- 2. For details not shown and drainage notes, see (B3-5)Substitution of geocomposite drain for pervious backfill material is not permitted.
- 3. Footing cover, 2'-0" minimum.
- For Sound wall and barrier reinforcement details, see "SOUND WALL MASONRY BLOCK WITH BARRIER ON RETAINING WALL" sheet.
- 5. For H=6' through 14', extend (b) bars into Barrier for stem with haunch.
- 6. Shift (b) bars and (d) bars as required to clear formed hole for ground anchor.
- 7. Footing is designed to resist 1.33 Td assuming the maximum anchor spacing shown in the table.

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BRIDGE STANDARD DETAILS							ST	ATE OF			BRIDGE NO
xe14-200-1		The components of the Bridge Standard Details have been prepared under the					CALIFORNIA		1 A	DIVISION OF	
<u>xs14-390-1</u>	July 2014	responsible charge of the Technical Owner,								ENGINEERING SERVICES	POST MILE
FILE NO.	APPROVAL DATE	responsible charge of the Technical Owner, a registered civil engineer in the State of California					DEPARTMENT	OF TRANSPO	RTATION		
Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail- sheets/index.html			FILE => xs14-390-1.dgn			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				UNIT:	
			USERNAME => s136236	TIME PLOTTED => 10:38	DATE PLOTTED => 18-JUL-2016	FOR REDUCED PLANS	0 1	2	3	PROJECT NUMBER & PHASE:	CONTR
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