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

REGISTERED CIVIL ENGINEER _____ DATE _____

PLANS APPROVAL DATE _____

REGISTERED PROFESSIONAL ENGINEER No. _____ Exp. _____ CIVIL STATE OF CALIFORNIA

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The Registered Civil Engineer for the project is responsible for the selection and proper application of the component design and any modifications shown.

TABLE OF REINFORCING STEEL DIMENSIONS AND DATA

DESIGN H	6′	8′	10′	12′	14′	16′	18′	20′	22′	24′
W	9′-0"	9′-0"	9′-6"	10′-3"	11′-3"	12′-9"	14′-0"	15′-9"	17′-3"	18′-9"
F SPREAD FOOTING	1′-3"	1′-3"	1′-3"	1′-3"	1′-6"	1′-9"	2′-0"	2′-3"	2′-6"	2′-6"
STEM WITH HAUNCH, BATTER	0	½:12	½:12	½:12	½:12	½:12	½:12	½:12	½:12	⅝:12
STEM WITHOUT HAUNCH, BATTER	0	0	0	0	0	0	0	0	¼:12	¼:12
ⓐ BARS						#7 @ 14	#7 @ 12	#7 @ 12	#8 @ 12	#6 @ 6
ⓑ BARS	#8 @ 12	#8 @ 12	#7 @ 6	#7 @ 6	#7 @ 6	#9 @ 7	#9 @ 6	#10 @ 6	#10 @ 6	#8 @ 6 ℧
ha			5′-0"	6′-0"	7′-0"	7′-0"	6′-0"	7′-0"	6′-9"	7′-6"
hb						11′-6"	12′-0"	13′-3"	16′-0"	15′-6"
ⓒ BARS	#7 @ 12	#8 @ 12	#7 @ 6	#9 @ 6	#9 @ 6	#11@ 7	#8 @ 6℧	#9 @ 6℧	#9 @ 6℧	#10 @ 6℧
hz			3′-6"	4′-0"	4′-9"	7′-0"	5′-9"	6′-9"	7′-6"	9′-0"
SER I: B′(ft), q_o'(ksf)	7.5, 1.5	7.1, 1.9	7.2, 2.2	7.6, 2.5	8.3, 2.8	9.6, 3.0	10.6, 3.3	12.1, 3.6	13.3, 3.9	14.6, 4.1
STR, Ia: B′(ft), q_o(ksf)	7.9, 2.9	7.4, 3.3	7.4, 3.7	7.8, 4.1	8.3, 4.5	9.5, 4.8	10.5, 5.0	11.9, 5.6	13.1, 6.0	14.3, 6.4
STR, Ib: B′(ft), q_o(ksf)	6.0, 2.0	5.5, 2.5	5.6, 2.9	5.9, 3.3	6.4, 3.7	7.6, 3.9	8.7, 4.1	9.9, 4.5	11.0, 4.9	12.1, 5.2
STR, IIIa: B′(ft), q_o(ksf)	6.0, 2.7	6.0, 3.0	6.4, 3.4	7.0, 3.7	7.8, 4.1	9.1, 4.4	10.2, 4.6	11.7, 5.1	12.9, 5.4	14.2, 5.7
STR, IIIb: B′(ft), q_o(ksf)	5.3, 2.5	5.2, 2.8	5.5, 3.1	6.0, 3.3	6.7, 3.7	8.0, 3.9	8.9, 4.0	10.4, 4.4	11.5, 4.7	12.7, 5.0
STR, Va: B′(ft), q_o(ksf)	7.5, 2.8	7.1, 3.2	7.2, 3.5	7.6, 3.9	8.2, 4.3	9.4, 4.6	10.4, 4.9	11.8, 5.3	13.0, 5.8	14.3, 6.1
STR, Vb: B′(ft), q_o(ksf)	5.7, 2.2	5.3, 2.6	5.4, 3.0	5.8, 3.4	6.4, 3.8	7.7, 3.9	8.7, 4.0	10.0, 4.5	11.1, 4.9	12.2, 5.1
Ext I: B′(ft), q_o(ksf)	4.0, 3.4	3.0, 4.7	2.5, 6.5	2.1, 9.2	1.8, 13.3	2.1, 14.4	2.3, 16.9	2.6, 17.2	2.9, 18.4	3.3, 19.3
Ext II: B′(ft), q_o(ksf)	3.9, 3.3	4.3, 3.5	5.1, 3.5	6.0, 3.6	7.1, 3.7	8.7, 3.7	9.9, 3.8	11.9, 3.8	13.0, 4.3	14.4, 4.5

LEGEND:

SER: service limit state

STR: strength limit state

EXT: extreme event limit state

B′ : effective footing width (ft)

q_o' : net bearing stress (ksf)

q_o : gross uniform bearing stress (ksf)

℧ : 2 bar bundle

BRIDGE STANDARD DETAILS

xs14-350-2	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
FILE NO.	APPROVAL DATE	

Refer to: http://www.dot.ca.gov/hq/esc/techpubs/manual/bridgemanuals/bridge-standard-detail-sheets/index.html

FILE => xs14-350-2.dgn

USERNAME => s136236 TIME PLOTTED => 10:46 DATE PLOTTED => 18-JUL-2016

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

POST MILE

RETAINING WALL TYPE 5SWB-DETAILS No. 2

UNIT:

PROJECT NUMBER & PHASE: CONTRACT NO.:

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
6-19-14	8-6-14	7-14-16			