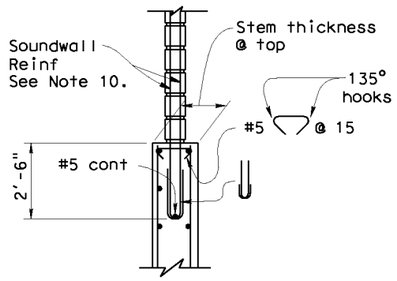
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
X	X	X	X	X	X

REGISTERED CIVIL ENGINEER — X DATE

PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — X — No. X — Exp. X — CIVIL — STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.



DETAIL A

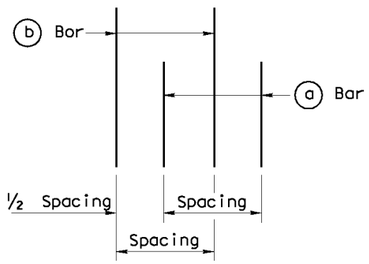
No Scale

A* Offset = ½" per 10 feet of wall stem height

WALL OFFSET

No Scale

Values for offsetting forms to be determined by engineer

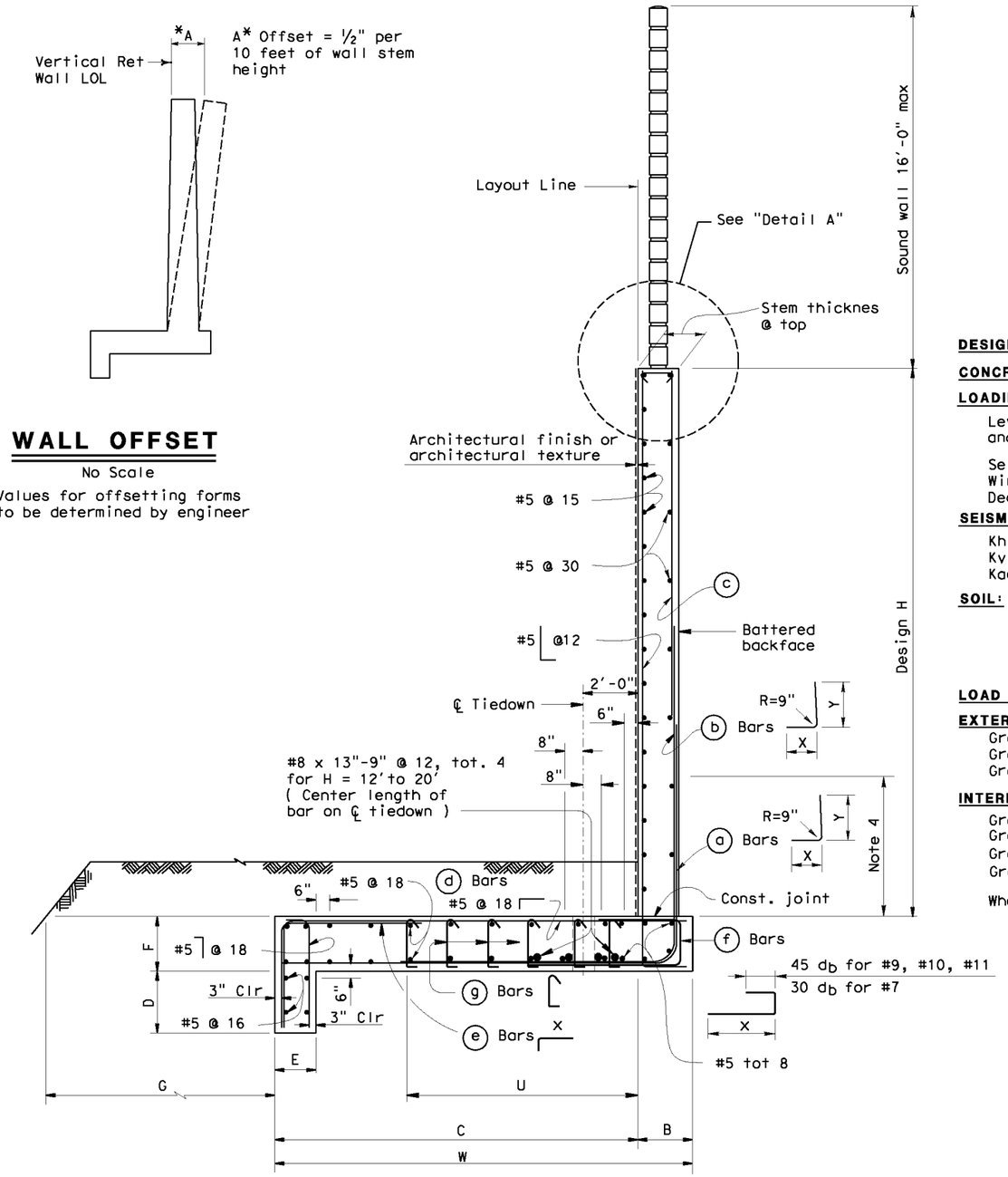


REBAR SPACING

No Scale

GENERAL NOTES

1. For soundwall ond retoining woll architecturol finish or texture, see details elsewhere in project plans.
2. For details not shown and drainage notes, see B3-8
3. Footing coverage, 2'-0" minimum.
4. Limit of no splicing rebars = H/3.
5. Increasing stem thickness not permitted.
6. Place footing key concrete against undisturbed material.
7. Shift (a) bars, (b) bars, and (c) bars as required to clear formed hole for tiedown.
8. No reinforcements in footing key for H= 8' to H=12'.
9. Maximum distance from ℄ tiedown to edge of footing = 0.4(S).
10. For soundwall reinforcements, see "Soundwall Masonry Block" Sheets in Standord Plan.



SPREAD FOOTING SECTION

No Scale

DESIGN DATA

DESIGN: Load Factor Design (LFD)

CONCRETE: Reinforced Concrete, f'c = 3600 psi
fy = 60,000 psi

LOADING CASE:

Level ground with 240 psf live load surcharge and 16' Soundwall

Seismic Load = 0.3 Dead Load
Wind Load = 30 psf
Dead Load of Soundwall = 1414 lb/Lf

SEISMIC LOAD: SOIL

Kh = 0.3g
Kv = 0.0
Kae : Mononobe-Okabe Method

SOIL: $\emptyset$ = 34° γ = 120 pcf
Equivolent fluid pressure:
STATIC = 36 pcf for determination of toe pressure
SEISMIC = Coulomb's Theory

LOAD COMBINATIONS:

EXTERNAL STABILITY:

Group 1 : D + E + SC + 0.75T (F.S. Sliding > 1.5)
Group 2 : D + E + SC + W + 0.75T (F.S. Sliding > 1.2)
Group 3 : D + PYM + P_{av} + V + 1.0 T (F.S. Sliding > 1.0)

INTERNAL STABILITY: (LFD)

Group A : βD + 1.7 E + 1.7 SC + 0.75 T
Group B : βD + 1.7 E + 1.3 W + 0.75 T
Group C :(Stem) 1.0 D + 1.0 E + 1.0 EQD + 1.0 EQE
Group C :(Footing) D + PYM + P_{av} + V + 1.0 T

Where : β = 1.0 or 1.3 whichever controls design
D = Dead Load
E = Lateral Earth Pressure
P_{av} = Verticol Earth Pressure
SC = Live Lood Surchorge
W = Wind Load
EQD = Seismic Dead Load
EQE = Seismic Lateral Earth Pressure
PYM = Probable Yield Moment (1.3 x Nominal Yield Moment of Stem)
V = Possible Shear at Base of Stem associated with Probable Yield Moment
T = Design Force for Vertical Tiedown

STANDARD DRAWING

FILE NO. xs14-380-1x

APPROVAL DATE July 2011

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. X

POST MILE X

X
RETAINING WALL TYPE 7SW - DETAILS NO.1

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: X
PROJECT NUMBER & PHASE: X
CONTRACT NO.: X

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES | SHEET X | OF X

FILE => &REQUEST

USERNAME => &USER DATE PLOTTED => &DATE TIME PLOTTED => &TIME