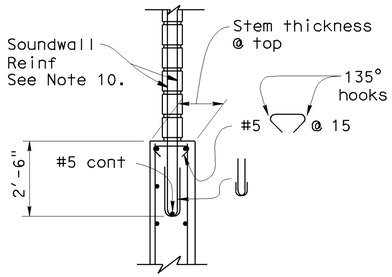
DIST.	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED ENGINEER - CIVIL

PLANS APPROVAL DATE

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.

REGISTERED PROFESSIONAL ENGINEER No. Exp. CIVIL STATE OF CALIFORNIA



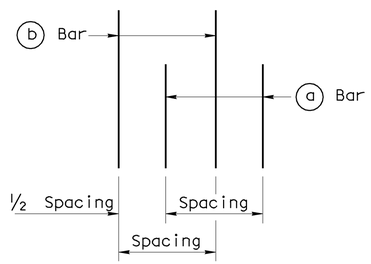
DETAIL A

No Scale

WALL OFFSET

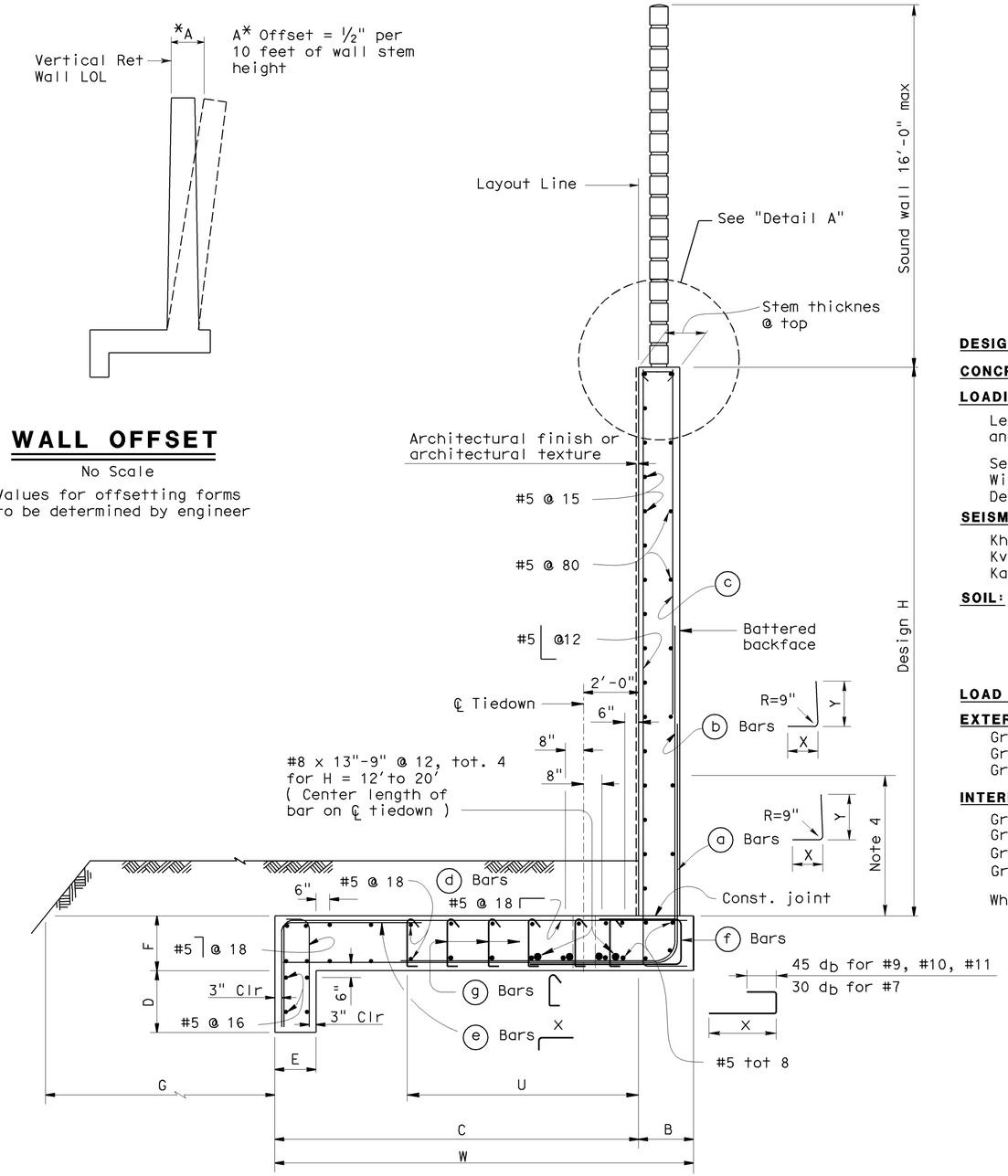
No Scale

Values for offsetting forms to be determined by engineer



REBAR SPACING

No Scale



SPREAD FOOTING SECTION

No Scale

GENERAL NOTES

1. For soundwall and retaining wall architectural 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 ⓐ bars, ⓑ bars, and ⓒ 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 Standard Plan.

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: $\phi = 34°$ $\gamma = 120$ pcf
Equivalent 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} = Vertical Earth Pressure
SC = Live Load Surcharge
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

RELEASE DATE 1/1/05	DESIGN	BY MADON SAH	CHECKED OVERCOMER HOR	RELEASED BY
FILE NO. xs14-380-1e	DETAILS	BY A R DUDSAK	CHECKED J.C. MOESE	
	SUBMITTED	BY OVERCOMER HOR	DRAWING DATE 12/1/05	OFFICE CHIEF

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO.

POST MILE

RETAINING WALL TYPE 7SW - DETAIL NO. 1

DS OSD 2147A (REV. X/XX/XX)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU
EA

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

SHEET OF

USERNAME => rwu

xs14-380-1e.dgn

DATE PLOTTED => 24-MAR-2006 TIME PLOTTED => 13:32