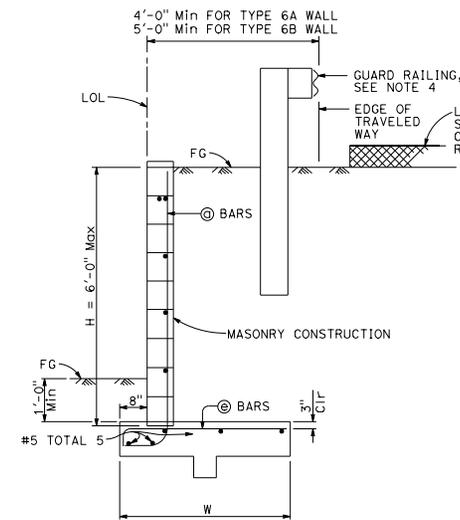
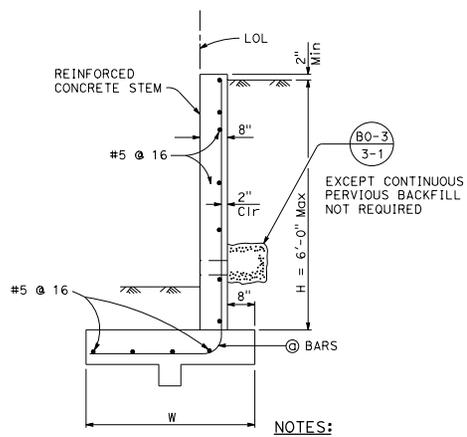


TYPE 6A WALL



TYPE 6B WALL



NOTES:

- For details not shown at "6B", see "6A", similarly, for details not shown at "6A", see "6B".
- Design loading for both Type "6A" and "6B" is as shown at "6B".
- Type 6 retaining wall shall be limited to use for walls of Design H of 6'-0" or less.
- Where traffic is adjacent to the top of wall, guard railing should be set back from the top front face of wall at least 4'-0" or 5'-0", dependent on wall type.
- For reinforced concrete wall stem joint details, see (B0-3) and (B0-3) 3-3.
- No splices are allowed on @ bars.
- See "Retaining Wall Type 6 Details" sheet for Elevation View and Footing Step Details.

SYMBOLS:

- Ser - service limit state I
- Str - strength limit state I
- Ext - extreme event limit state I
- B' - effective footing width (ft)
- q_o - net bearing stress (ksf), OG assumed to be FG at toe
- q_o - gross uniform bearing stress (ksf)

DESIGN NOTES:

- DESIGN: AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments
Building Code Requirements for Masonry Structures (TMS 402-08/ACI 530-08/ASCE 5-08)
- LS: 240 psf surcharge on level ground surface as limited by Guard Railing location
- SEISMIC: $k_h = 0.2$
 $k_v = 0.0$
- SOIL: $\phi = 34^\circ$
 $\gamma = 120 \text{ pcf}$
- REINFORCED CONCRETE: $f'_c = 3,600 \text{ psi}$
 $f_y = 60,000 \text{ psi}$
- REINFORCED MASONRY: $f_m' = 1,500 \text{ psi}$
 $f_y = 60,000 \text{ psi}$
- LOAD COMBINATIONS AND LIMIT STATES:
Service I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00LS$
Strength I $Q = \alpha DC + \beta EV + \gamma EH + 1.75LS$
Extreme I $Q = 1.00DC + 1.00EV + 1.00EH + 1.00EOD + 1.00EIE$
- Where:
Q: Force Effects
 α : 1.25 or 0.90, Whichever Controls Design
 β : 1.35 or 1.00, Whichever Controls Design
 γ : 1.50 or 0.90, Whichever Controls Design
DC: Dead Load of Structure Components
EH: Horizontal Earth Fill Pressure
EV: Vertical Earth Pressure from Earth Fill Weight
LS: Live Load Surcharge
EIE: Seismic Earth Pressure
EOD: Soil and Structural and Nonstructural Components Inertia

TYPE 6A WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-3"	3'-8"	4'-2"	4'-8"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q _o	2.8, 0.2	3.0, 0.3	3.4, 0.3	3.8, 0.3	4.3, 0.3
Str: B', q _o	2.7, 0.6	2.9, 0.7	3.2, 0.7	3.6, 0.7	3.3, 0.6
Ext: B', q _o	1.7, 0.8	1.6, 0.9	1.7, 1.0	2.0, 1.0	2.1, 1.0

TYPE 6B WALL - TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA

DESIGN H	3'-4"	4'-0"	4'-8"	5'-4"	6'-0"
W	3'-0"	3'-9"	4'-0"	4'-6"	4'-9"
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
@ BARS	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16	#5 @ 16
Ser: B', q _o	2.6, 0.4	3.4, 0.4	2.7, 0.8	3.1, 0.8	3.2, 1.0
Str: B', q _o	2.6, 0.8	3.3, 0.9	1.7, 1.6	2.1, 1.6	2.0, 1.8
Ext: B', q _o	1.5, 1.1	2.0, 1.1	2.0, 1.4	2.2, 1.5	2.1, 1.9

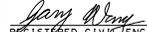
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
RETAINING WALL TYPE 6 (CASE 1)
NO SCALE

RSP B3-7A DATED APRIL 20, 2012 SUPPLEMENTS THE
STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP B3-7A

2010 REVISED STANDARD PLAN RSP B3-7A

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


 REGISTERED CIVIL ENGINEER
 No. C58298
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

April 20, 2012
 PLANS APPROVAL DATE
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