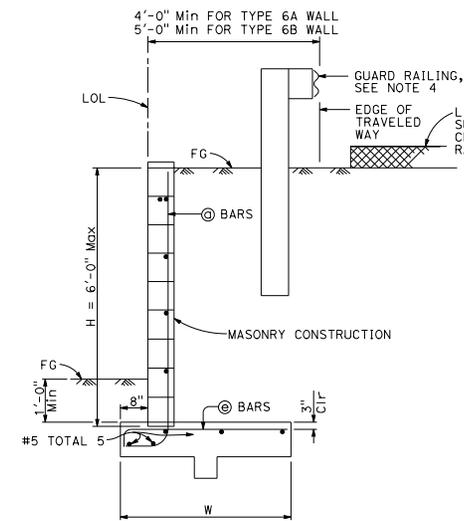
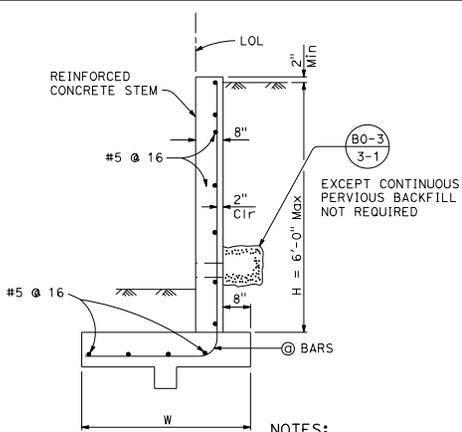


TYPE 6A WALL



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 and 3-4.
- 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)

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

REGISTERED CIVIL ENGINEER
 Gary Wong
 No. C58288
 Exp. 6-30-12
 CIVIL
 STATE OF CALIFORNIA

April 20, 2012
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

DESIGN NOTES:

- TO ACCOMPANY PLANS DATED _____
- 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:** φ = 34°
 γ = 120 pcf
- REINFORCED CONCRETE:** f'c = 3,600 psi
 f_y = 60,000 psi
- REINFORCED MASONRY:** f_m' = 1,500 psi
 f_y = 60,000 psi
- LOAD COMBINATIONS AND LIMIT STATES:**
 Service I 0 = 1.00DC+1.00EV+1.00EH+1.00LS
 Strength I 0 = αDC+PEV+EH+1.75LS
 Extreme I 0 = 1.00DC+1.00EV+1.00EH+1.00EQD+1.00EQE

- Where:
- Q: Force Effects
 - α: 1.25 or 0.90, Whichever Controls Design
 - β: 1.35 or 1.00, Whichever Controls Design
 - η: 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
 - EQD: Seismic Earth Pressure
 - EQE: 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