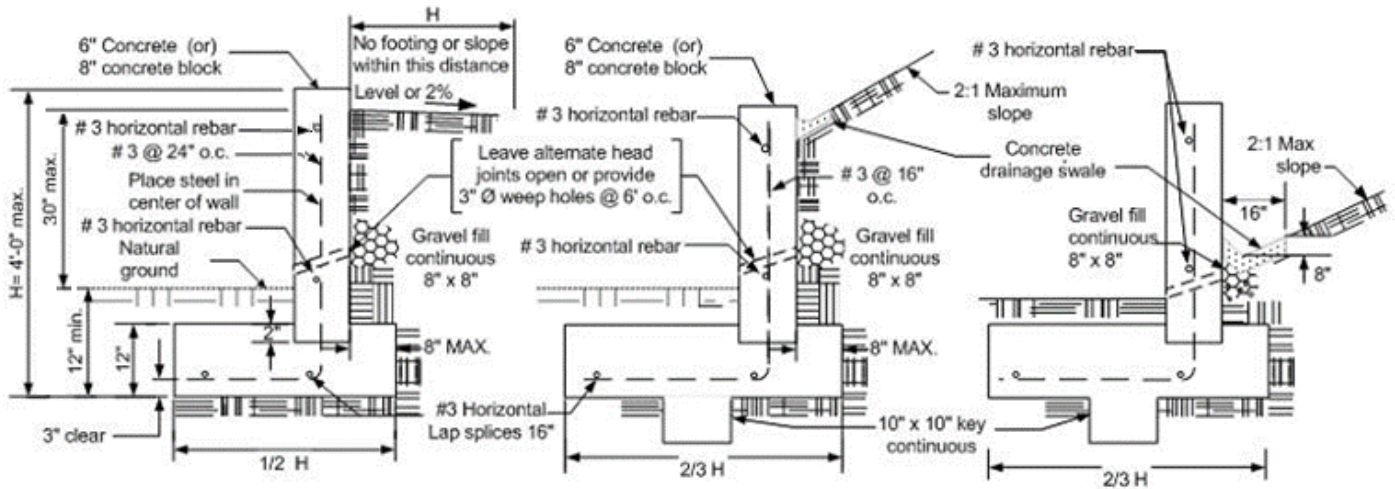


## RETAINING OR SLOUGH WALL (4'-0" HIGH OR LESS)



See Figure 1 for all other construction dimensions.

**FIG. 1**

**FIG. 2**

**FIG. 3 (SLOUGH WALL)**

(NO BUILDING PERMIT IS REQUIRED FOR FIG. 1<sup>(1)</sup> <sup>(2)</sup>) (PERMIT IS REQUIRED FOR FIG. 2 AND FIG. 3)

These walls are designed for the average condition and may not be suitable in all cases. Where the proposed wall construction is extensive, a licensed civil or structural engineer should be consulted.

**Notes:**

- 1) The wall shown in Figure 1 shall not be constructed where the existing slope below or beneath the wall is steeper than 1 vertical to 5 horizontal (20 percent slope) per code section 101.5 (4). The 30" maximum in Figure 1 applies when there is a walkway behind the retaining wall.
- 2) In the case of Figure 1, if more than one wall is constructed to replace an existing slope, a building permit will be required if the existing slope is steeper than 1 vertical to 5 horizontal (20 percent).

**GENERAL SPECIFICATIONS**

1. All footings to be 12" into natural ground.
2. Concrete mix for footing and concrete wall shall be 2,500 psi minimum, or if site mixed: 1 part Portland cement, 2 parts sand, 3 parts 1" rock with a maximum of 7 gallons of water per sack of cement.
3. Grout mix for concrete block wall shall be 2,000 psi, 1 part Portland cement, 3 parts sand to which may be added not more than 1/10 part lime. Sufficient water to be added to produce consistency for pouring without segregation of the constituents. Grout may contain pea gravel to a maximum size of 3/8".

4. Mortar mix for concrete blocks shall be 1 part cement to 1/4 lime putty or hydrated lime to 3½ parts damp loose sand.
5. Concrete block units shall be standard 8"x8"x16" units conforming to ASTM C55.
6. Reinforcing steel shall be deformed steel conforming to ASTM Specification A-615, Grade 40. Lap all steel 16".
7. Concrete block units shall be staggered (running bond).
8. Concrete block units shall have vertical continuity of the cells unobstructed. All cells containing reinforcing shall be filled solid with grout.
9. All surface drainage that is concentrated or re-directed by the walls shall be directed to the public street via non-erosive devices. No cross-property drainage is permitted.
10. The walls and the required subdrains shall be within the property and they shall not encroach into the adjacent properties. No grading work is permitted on the adjacent properties.
11. Walls constructed using alternate methods or materials, such as wood, rubble or stacked blocks, including pre-manufactured blocks that are stacked upon each other, are not allowed unless they have a current Research Report from the Engineering Research Section of the Department of Building and Safety.