

Foundation Requirements for One Story Minor Room Addition and Accessory Structures

County of Orange

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EFFECTIVE DATE: January 9, 2012

BACKGROUND:

- 1. Section R401.4 of 2010 California Residential Code (CRC) requires a soils test to determine the soil's characteristics if expansive soils are likely to be present.
- 2. Section 1803.5.11 of 2010 California Building Code (CBC) requires a "geotechnical investigation" for any structure determined to be in Seismic Design Category C, D, E or F in accordance with Section 1613.
- 3. Exception to Section 1803.2 states, "The building official shall be permitted to waive the requirement for a geotechnical investigation where satisfactory data from adjacent areas is available that demonstrates an investigation is not necessary for any of the conditions in Sections 1803.5.1 through 1803.5.6 and Sections 1803.5.10 and 1803.5.11."

POLICY:

Since the County of Orange is located in Seismic Design Category D and due to the presence of expansive soil in some county areas, we have developed the following policy to comply with the 2010 CRC and CBC.

Geotechnical investigation report is required for all projects except as prescribed below.

Exception:

- 1. Attached and detached patio cover and deck with no more than 2,500 pounds maximum total load at each post.
- 2. One story room addition to a single family dwelling up to 500 square feet if it is NOT located in liquefaction area.
- 3. One story room addition to a single family dwelling up to 250 square feet if it IS located in liquefaction area.
- 4. Detached garage up to 500 square feet.

Excepted projects as described above shall follow the alternate method as outlined below in lieu of geotechnical investigation report provided minimum foundation clearance from slope is maintained based on Section 1808.7 or R403.1.7:

A. For slab on grade construction

- Scarify top 12" and provide compaction report (90% compaction) prior to trenching for the utility and/or foundation. Damp proofing, base course and pre-saturation are required.
- Provide 5" slab on grade reinforced with #4 at 18" on centers each way over 4" sand base. Slab shall be tied-in to continuous 12" wide X 24" (minimum embedment into firm soil) foundation.
- Continuous foundation must be reinforced with 2 #5 (or 3 #4) top and bottom.

See attached slab on grade foundation **detail 'A'** for additional information.

B. For raised foundation construction:

- Provide continuous foundation with 12" wide X 24" (minimum embedment into firm soil) around the perimeter of the addition.
- Continues foundation must be reinforced with 2 #5 (or 3 #4) top and bottom.
- Provide 18" (minimum embedment) for all interior pier footing.

See attached raised floor foundation detail 'B' for additional information.

Note: All concrete shall be fc'=4,500 psi (minimum) with type V cement maximum water cement ratio of 0.45. No special inspection required if concrete truck mix ticket is provided.

This policy does not apply to projects that require grading plans and permit per County Grading Code.

Approved by:

Hadi Tabatabaee, P.E., CBO

County Building Official



Foundation Details

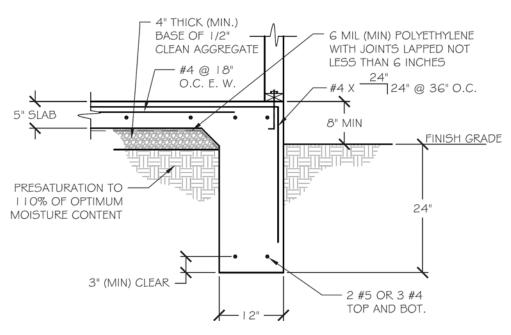
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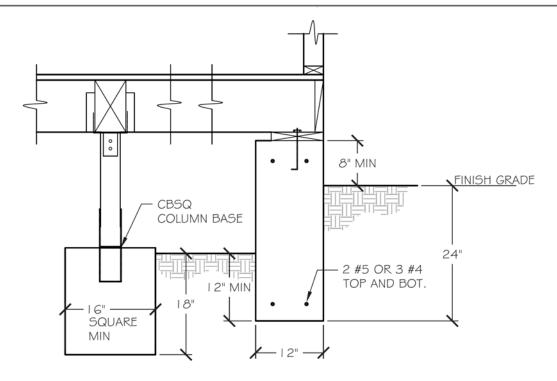
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SLAB ON GRADE FOUNDATION DETAIL A



FOUNDATION DETAIL B