

## 780 CMR 34.00 EXISTING STRUCTURES

### 780 CMR 3408.0 STRUCTURAL REQUIREMENTS FOR EXISTING BUILDINGS

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**3408.4.3 Level 2 Work.** Work or change of use involving any of the following:

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3. **Cumulative increase** Increase in total framed floor and roof area due to structurally attached additions up to a lifetime limit of 10% of the total framed floor and roof area of the building that existed on February 28, 1997, or on the date of the certificate of occupancy if the building was built thereafter.

4. **Cumulative increase** Increase in effective seismic weight, with or without structurally attached additions, **from 2.0% for one-story buildings and from 1.0% for buildings with more than one-story, up to** a lifetime limit of 10% of the effective seismic weight of the building that existed on February 28, 1997, or on the date of the certificate of occupancy if the building was built thereafter.

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#### **3408.6.2.2 Foundation and geotechnical explorations.**

**3408.6.2.2.1 Level 2 Work.** **A foundation or geotechnical exploration is not required provided that:** If the work does not involve an a structurally attached addition; that any increase in gravity load does not increase the gravity load on any foundation element by more than 10% of that which existed on September 1, 2008; ~~or does not include an increase in gravity~~

loads, and the work does not involve new shear walls or vertical frames or reinforcement of existing shear walls or vertical frames; to resist the lateral loads required in Section 3408.7.3, and if there is no indication of settlement or lateral movement of basement walls or foundations., no foundation or geotechnical exploration is required. Otherwise, explorations shall be performed as necessary to determine the foundation design parameters of the subsoils and the type, size, and condition of existing foundations.

#### **3408.6.2.2.2 Levels 3, 4, and 5 Work.**

Explorations shall be performed as necessary to determine the foundation design parameters of the subsoils, the type, size, and condition of existing foundations, and the potential for liquefaction of soils during an earthquake where required in Section 3408.9.11.

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**3408.8.2 Snow load.** Snow load shall be in accordance with Section 1608, with the following exceptions and Clauses 3408.8.2.1 and 3408.8.2.2. Alternatively, snow load on existing buildings (but not on additions) may be in accordance with the 6<sup>th</sup> Edition of the State Building Code.

**3408.8.2.1 Ground snow load.** For determining snow loads on existing buildings, ground snow load may be reduced to 85% of that required by Section 1608. There shall be no reduction of ground snow load for additions, or for drift loads on existing buildings created by higher additions, new roof top equipment, or other roof projections. The Importance Factor for roofs of existing buildings need not be taken greater than 1.0.

**3408.8.2.2 Level 1 Work.** Roofs or parts of roofs for Level 1 Work are is exempt from the snow load requirements of Section 1608, except for snow drift loads due to new roof top equipment or structures provided that the roofs

or parts of roofs do not support added gravity load and there are no changes to the roof framing.