

780 CMR 33.00

SAFEGUARDS DURING CONSTRUCTION

780 CMR 3301.0 GENERAL

3301.1 Scope. The provisions of 780 CMR 33.00 shall govern safety during construction and the protection of adjacent public and private properties.

Note 1: As applicable, Department of Environmental Protection (DEP) Regulations, 310 CMR 7.09: U Dust, Odor, Construction and Demolition, and 310 CMR 15.00: U Asbestos, DEP Regulations addressing asbestos, and the requirements of M.G.L. c. 111, § 150A, addressing disposal of demolition debris, must be satisfied.

Note 2: As applicable, 527 CMR, in conjunction with M.G.L. c. 148, § 27A must be satisfied relative to fire protection systems proposed dismantled, shut off or modified; likewise 527 CMR addresses certain fire extinguisher requirements associated with demolition activities.

Note 3: As applicable, 521 CMR sets forth pedestrian walkway requirements for the disabled and such requirements must be satisfied.

3301.2 Storage and Placement. Construction equipment and materials shall be stored and placed so as not to endanger the public, the workers or adjoining property for the duration of the construction project.

3301.3 Excavation and Trench Safety. Excavation on private or public land shall be permitted and executed in accordance with 520 CMR 14.00: *Excavation and Trench Safety.*

780 CMR 3302.0 CONSTRUCTION SAFEGUARDS

3302.1 Remodeling and Additions. Required exits, existing structural elements, fire protection devices and sanitary safeguards shall be maintained at all times during remodeling, alterations, repairs or additions to any building or structure.

Exceptions:

1. When such required elements or devices are being remodeled, altered or repaired, adequate substitute provisions shall be made.
2. When the existing building is not occupied.

3302.2 Manner of Removal. Waste materials shall be removed in a manner which prevents injury or damage to persons, adjoining properties and public rights-of-way.

780 CMR 3303.0 DEMOLITION

3303.1 Construction Documents. Construction documents and a schedule for demolition must be submitted when required by the building official. Where such information is required, no work shall

be done until such construction documents or schedule, or both, are approved.

3303.2 Pedestrian Protection. The work of demolishing any building shall not be commenced until pedestrian protection is in place as required by 780 CMR 33.00.

3303.3 Means of Egress. A party wall balcony or horizontal exit shall not be destroyed unless and until a substitute means of egress has been provided and approved.

3303.4 Vacant Lot. Where a structure has been demolished or removed, the vacant lot shall be filled and maintained to the existing grade or in accordance with the ordinances of the jurisdiction having authority.

3303.5 Water Accumulation. Provision shall be made to prevent the accumulation of water or damage to any foundations on the premises or the adjoining property.

3303.6 Utility Connections. Service utility connections shall be discontinued and capped in accordance with the approved rules and the requirements of the authority having jurisdiction.

780 CMR 3304.0 SITE WORK

3304.1 Excavation and Fill. Excavation and fill for buildings and structures shall be constructed or protected so as not to endanger life or property. Stumps and roots shall be removed from the soil to a depth of at least 12 inches (305 mm) below the surface of the ground in the area to be occupied by the building. Wood forms which have been used in placing concrete, if within the ground or between foundation sills and the ground, shall be removed before a building is occupied or used for any purpose. Before completion, loose or casual wood shall be removed from direct contact with the ground under the building.

3304.1.1 Slope Limits. Slopes for permanent fill shall not be steeper than one unit vertical in two units horizontal (50% slope). Cut slopes for permanent excavations shall not be steeper than one unit vertical in two units horizontal (50% slope). Deviation from the foregoing limitations for cut slopes shall be permitted only upon the presentation of a soil investigation report acceptable to the building official.

3304.1.2 Surcharge. No fill or other surcharge loads shall be placed adjacent to any building or structure unless such building or structure is capable of withstanding the additional loads

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caused by the fill or surcharge. Existing footings or foundations which can be affected by any excavation shall be underpinned adequately or otherwise protected against settlement and shall be protected against later movement.

3304.1.3 Footings on Adjacent Slopes. For footings on adjacent slopes, see 780 CMR 18.00.

3304.1.4 Fill Supporting Foundations. Fill to be used to support the foundations of any building or structure shall comply with 780 CMR 18.00. Special inspections of compacted fill shall be in accordance with 780 CMR 17.00.

780 CMR 3305.0 SANITARY

3305.1 Facilities Required. Sanitary facilities shall be provided during construction, remodeling or demolition activities in accordance with 105 CMR, the State Sanitary Code and 248 CMR, the Massachusetts Fuel Gas and Plumbing Code.

780 CMR 3306.0 PROTECTION OF PEDESTRIANS

3306.1 Protection Required. Pedestrians shall be protected during construction, remodeling and demolition activities as required by 780 CMR 33.00 and Table 3306.1. Signs shall be provided to direct pedestrian traffic.

3306.2 Walkways. A walkway shall be provided for pedestrian travel in front of every construction and demolition site unless the authority having jurisdiction authorizes the sidewalk to be fenced or closed. Walkways shall be of sufficient width to accommodate the pedestrian traffic, but in no case shall they be less than four feet (1219 mm) in width. Walkways shall be provided with a durable walking surface. Walkways shall be accessible in accordance with 780 CMR 11.00 and shall be designed to support all imposed loads and in no case shall the design live load be less than 150 pounds per square foot (psf) (7.2 kN/m²).

3306.3 Directional Barricades. Pedestrian traffic shall be protected by a directional barricade where the walkway extends into the street. The directional barricade shall be of sufficient size and construction to direct vehicular traffic away from the pedestrian path.

3306.4 Construction Railings. Construction railings shall be at least 42 inches (1067 mm) in height and shall be sufficient to direct pedestrians around construction areas.

3306.5 Barriers. Barriers shall be a minimum of eight feet (2438 mm) in height and shall be placed on the side of the walkway nearest the construction. Barriers shall extend the entire length of the construction site. Openings in such barriers shall be protected by doors which are normally kept closed.

3306.6 Barrier Design. Barriers shall be designed to resist loads required in 780 CMR 16.00 unless constructed as follows:

1. Barriers shall be provided with two-inch by four-inch (51 mm by 102 mm) top and bottom plates.
2. The barrier material shall be a minimum of 3/4-inch (19.1 mm) boards or 1/4-inch (6.4 mm) wood structural use panels.
3. Wood structural use panels shall be bonded with an adhesive identical to that for exterior wood structural use panels.
4. Wood structural use panels 1/4 inch (6.4 mm) or 5/16 inch (23.8 mm) in thickness shall have studs spaced not more than two feet (610 mm) on center (o.c.).
5. Wood structural use panels 3/8 inch (9.5 mm) or 1/2 inch (12.7 mm) in thickness shall have studs spaced not more than four feet (1219 mm) o.c., provided a two-inch by four-inch (51 mm by 102 mm) stiffener is placed horizontally at midheight where the stud spacing exceeds two feet (610 mm) o.c.
6. Wood structural use panels 5/8 inch (15.9 mm) or thicker shall not span over eight feet (2438 mm).

TABLE 3306.1 PROTECTION OF PEDESTRIANS

HEIGHT OF CONSTRUCTION	DISTANCE FROM CONSTRUCTION TO LOT LINE	TYPE OF PROTECTION REQUIRED
eight feet or less	Less than five feet	Construction railings
	five feet or more	None
More than eight feet	Less than five feet	Barrier and covered walkway
	five feet or more, but not more than 1/4 the height of construction	Barrier and covered walkway
	five feet or more, but between 1/4 and 1/2 the height of construction	Barrier
	five feet or more, but exceeding 1/2 the height of construction	None

For SI: 1 foot = 304.8 mm.