

## Part III – Building and Equipment Design Features

### CHAPTER 5 FIRE SERVICE FEATURES

Double strike through denotes model language deleted by Oregon  
Blue text denotes existing Oregon Amendments

#### SECTION 501 GENERAL

**501.1 Scope.** Fire service features for buildings, structures and premises shall comply with this chapter. See also ORS 92.044, 203, 221, 195.065, 368.039, 478.920 and OAR 918-480-0100.

ORS Chapter 92.044, 203, 221, 368.039, 195.065, 478.920 and OAR Chapter 918 are not a part of this code but are reproduced or paraphrased here for the reader's convenience.

ORS 92.044 is the adoption of standards and procedures governing approval of plats and plans; delegation to planning commission; fees.

ORS 230 is the county bodies; county home rule.

ORS 221 is the organization and government of cities.

ORS 368.039 allows road standards adopted by local government to supersede standards in the fire codes and requires consultation with local fire agency.

ORS 195.065 requires local governments and special districts that provide urban service to enter into urban service agreements. For the purpose of this statute, "urban service" means: sanitary sewers, water, fire protection, parks, open space, recreation and streets, roads and mass transit.

ORS 478.920 describes elements that may be included in the scope of a fire prevention code adopted by a rural fire protection district, including but not limited to: mobile fire apparatus means of approach to buildings and structures, and providing fire-fighting water supplies and fire detection and suppression apparatus adequate for the protection of buildings and structures.

OAR 918-480-0100 describes the procedure for approving the installation of automatic fire sprinklers where fire apparatus access or fire-fighting water supply do not meet local standards.

#### SECTION 503 FIRE APPARATUS ACCESS ROADS

**503.1 Where required.** Fire apparatus access roads shall be provided and maintained in accordance with Sections 503.1.1 through 503.1.3. See Appendix D.

**503.1.1 Buildings and facilities.** *Approved* fire apparatus access roads shall be provided for every facility, building or portion of a building hereafter constructed or moved into or within the jurisdiction. The fire apparatus access road shall comply with the requirements of this section and shall extend to within 150 feet (45 720 mm) of all portions of the facility and all portions of the exterior walls of the first story of the building as measured by an *approved* route around the exterior of the building or facility.

**Exception:** The *fire code official* is authorized to ~~increase the dimension of 150 feet (45 720 mm) where~~ **modify Sections 503.1 and 503.2 where any of the following applies:**

1. The building is equipped throughout with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1, 903.3.1.2 or 903.3.1.3.
2. Fire apparatus access roads cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions, and an *approved* alternative means of fire protection is provided.
3. There are not more than two Group R-3 or Group U occupancies.

**503.2.2 Authority.** The *fire code official* shall have the authority to ~~require an increase in the minimum access widths where they are inadequate for fire or rescue operations.~~ **modify the dimensions specified in Section 503.2.1.**

## SECTION 506 KEY BOXES

**506.1 Where required.** Where access to or within a structure or an area is restricted because of secured openings or where immediate access is necessary for life-saving or fire-fighting purposes, the *fire code official* is authorized to require a key box to be installed in an *approved* location. The key box shall be of an *approved* type listed in accordance with UL 1037, and shall contain keys to gain necessary access as required by the *fire code official*.

**Exception: Pharmacies in accordance with OAR 855-041-0035.**

## SECTION 507 FIRE PROTECTION WATER SUPPLIES

**507.3 Fire flow.** Fire flow requirements for buildings or portions of buildings and facilities shall be determined by an *approved* method. **See Appendix B.**

**507.5 Fire hydrant systems.** Fire hydrant systems shall comply with Sections 507.5.1 through 507.5.6. **See Appendix C.**

**507.5.5 Clear space around hydrants.** A 3-foot (914 mm) clear space shall be maintained around the circumference of fire hydrants except as otherwise required or *approved*.

**ORS 811.550(16) is not a part of this code but reproduced or paraphrased here for the reader's convenience.**

**ORS 811.550(16) prohibits parking within 10 feet (3048 mm) of a fire hydrant.**

**OAR 860-024-0010 is not a part of this code but is reproduced or paraphrased here for the reader's convenience.**

**OAR 860-024-0010 is an Oregon Public Utility Commission rule that adopts the National Electrical Safety Code (NESC). The NESC contains rules that limit the placement of a fire hydrant a minimum of 4 feet (1219 mm) from any supporting structure for electrical equipment, such as transformers and poles.**

## SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE

**510.1 Emergency responder radio coverage in new buildings.** All new buildings **as described in Section 510.1.1**, shall have *approved* radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

### **Exceptions:**

1. Where *approved* by the building official and the *fire code official*, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained in lieu of an *approved* radio coverage system.
2. Where it is determined by the *fire code official* that the radio coverage system is not needed.
3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the *fire code official* shall have the authority to accept an automatically activated emergency responder radio coverage system.

**510.1.1 Scope. Emergency responder radio coverage must be provided in the following buildings and locations:**

- 1. Any building with one or more basement or below grade building levels.**
- 2. Any underground building.**
- 3. Any building more than five stories in height.**
- 4. Any building 50,000 square feet (4645 m<sup>2</sup>) in size or larger.**
- 5. Any building that, through performance testing, does not meet the requirement of Section 510.**

**510.4.1.1 Minimum signal strength into the building.** A minimum signal strength of ~~-95~~ **-100 dBm at the agency's antenna port** shall be ~~receivable~~ **received by the agency's radio system when transmitted from** within the building.