COMMERCIAL BUILDINGS - FIRE FLOW:

The minimum fire flow and flow duration for buildings other than one and two-family dwellings shall be as specified in Appendix B, Table B105.1. The required fire flow for a building shall not exceed the available GPM in the water delivery system at 20 psi.

SINGLE FAMILY DWELLINGS - REQUIRED FIRE FLOW:

The minimum available fire flow for single family dwellings and duplexes served by a municipal water supply shall be 1,000 gallons per minute. For structures 3,600 square feet or larger, the required fire flow shall be determined according to IFC Appendix Table B105.2. (OFC B105.2)

ACCESS & FIRE FIGHTING WATER SUPPLY DURING CONSTRUCTION:

Approved fire apparatus access roadways and fire fighting water supplies shall be installed and operational prior to any combustible construction or storage of combustible materials on the site. (OFC 501.4)

FIRE HYDRANTS - FOR COMMERCIAL BUILDINGS:

Where a portion of the building is more than 400 feet from a hydrant on a fire apparatus access road, as measured in an approved route around the exterior of the building, on-site fire hydrants and mains shall be provided. (OFC 507.5.1)

Note: This distance may be increased to 600 feet for buildings equipped throughout with an approved automatic sprinkler system.

FIRE HYDRANT NUMBER AND DISTRIBUTION:

The minimum number and distribution of fire hydrants available to a building shall not be less than that listed in Table C 105.1. (OFC Appendix C)

FIRE HYDRANTS - ONE AND TWO-FAMILY DWELLINGS & ACCESSORY STRUCTURES:

Where a portion of a structure is more than 600 feet from a hydrant on a fire apparatus access road, as measured in an approved route around the exterior of the structure(s), on-site fire hydrants and mains shall be provided. (OFC 507.5.1)

FIRE HYDRANT NON-THREADED QUICK CONNECTORS:

Non-threaded quick connectors (Storz) shall be installed on all newly installed fire hydrants.

FIRE HYDRANT DISTANCE FROM AN ACCESS ROAD:

Fire hydrants shall be located not more than 15 feet from an approved fire apparatus access roadway unless approved by the fire code official. (OFC C102.1)

FIRE HYDRANT / FIRE DEPARTMENT CONNECTION:

A fire hydrant shall be located within 100 feet of a fire department connection (FDC). Fire hydrants and FDC's shall be located on the same side of the fire apparatus access roadway. (OFC C102.1 & NFPA 14)

GATES:

Gates securing fire apparatus roads shall comply with all of the following: (OFC D103.5)

- Minimum unobstructed width shall be 20 feet (except two 10 foot sections will be allowed).
- Gates shall be set back at minimum of 30 feet from the intersecting roadway.
- Gates shall be of the swinging or sliding type.
- Manual operation shall be capable by one person.
- Electric gates shall be equipped with a means for operation by fire department personnel.
- Locking devices shall be approved.

Fire & Life Safety Requirements for Fire Department Access & Water Supply

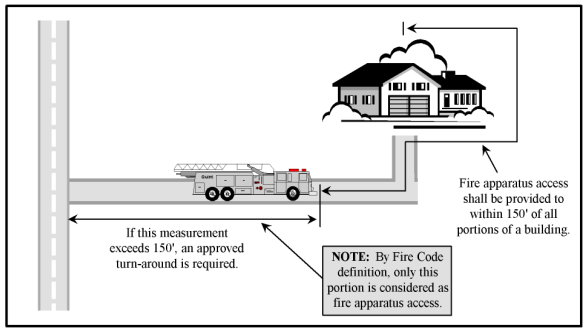
Based on the 2014 Oregon Fire Code

City of Roseburg Fire Department
700 SE Douglas Avenue
Roseburg, OR 97470
☎ (541) 492-6770
✉ fireprevention@cityofroseburg.org

This brochure is being provided as a resource only. The items listed inside are the requirements most generally cited on plans for approval. If these items are included on the plans, the likelihood of a timely approval on the initial review is greatly increased. If questions arise with regard to any of the provisions, please call our office .

FIRE APPARATUS ACCESS ROAD DISTANCE FROM BUILDING AND TURNAROUNDS:

Access roads shall be within 150 feet of all portions of the exterior wall of the first story of the building as measured by an approved route around the exterior of the building. An approved turnaround is required if the remaining distance to an approved intersecting roadway, as measured along the fire apparatus access road, is greater than 150 feet. (OFC 503.1.1)



FIRE APPARATUS ACCESS ROAD EXCEPTION FOR AUTOMATIC SPRINKLER PROTECTION:

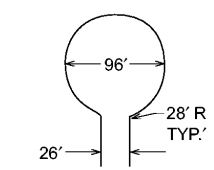
When buildings are completely protected with an approved automatic fire sprinkler system, the requirements for apparatus access may be modified as approved by the fire code official. The approval of this alternate method of construction shall be accomplished in accordance with the provisions of ORS 455.610(6). (OFC 503.1.1 Exception 1)

SURFACE AND LOAD CAPACITIES:

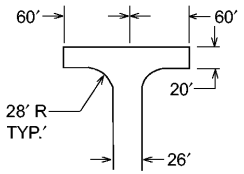
Fire apparatus access roads shall be of an all-weather surface that is easily distinguishable from the surrounding area and is capable of supporting not less than 12,500 pounds point load (wheel load) and 75,000 pounds live load (gross vehicle weight). Documentation from a registered engineer that the finished construction is in accordance with the approved plans or the requirements of the Fire Code may be requested. (OFC D102.1)

DEAD END ROADS:

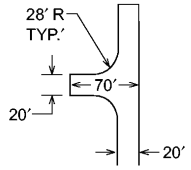
Dead end fire apparatus access roads in excess of 150 feet in length shall be provided with an approved turnaround. Diagrams of approved turnarounds are shown below. (OFC 503.2.5)



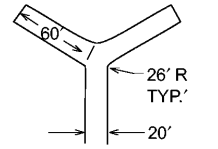
96′ DIAMETER CUL-DE-SAC



120′ HAMMERHEAD



ACCEPTABLE ALTERNATIVE TO 120′ HAMMERHEAD



ACCEPTABLE ALTERNATIVE T0 120′ HAMMERHEAD

FIRE APPARATUS ACCESS ROAD WIDTH AND VERTICAL CLEARANCE:

Fire apparatus access roads shall have an unobstructed driving surface width of not less than 20 feet (26 feet adjacent to fire hydrants (OFC D103.1)) and an unobstructed vertical clearance of not less than 13 feet 6 inches. (OFC 503.2.1 & D103.1)

Note: When serving two or less dwelling units and accessory buildings, the driving surface may be reduced to 12 feet, although the unobstructed width shall be 20 feet.

AERIAL FIRE APPARTUS ROAD WIDTH:

Fire apparatus access roads constructed for use by aerial apparatus shall have an unobstructed driving surface width of not less than 26 feet. (OFC D105.2)

TURNING RADIUS:

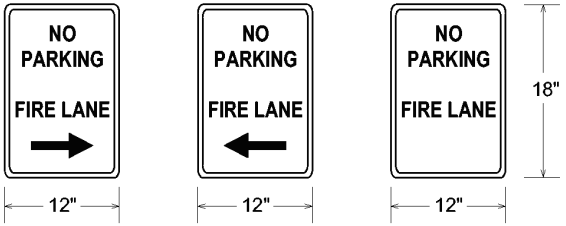
The inside turning radius and outside turning radius shall not be less than 28 feet and 48 feet respectively, measured from the same center point. (OFC 503.2.4 & Appendix D)

GRADE:

To be met per LUDO. Variances will be considered for roads exceeding the maximum allowed provided all buildings are protected with an automatic sprinkler system, but in no case be allowed in excess of 20%.

NO PARKING SIGNS:

Where fire apparatus roadways are not of sufficient width to accommodate parked vehicles and 20 feet of unobstructed driving surface, "No Parking" signs shall be installed on one or both sides of the roadway and in turnarounds as needed. Roads 26 feet wide or less shall be posted on both sides as a fire lane. Signs shall read "NO PARKING - FIRE LANE" and shall be installed with a clear space above grade level of 7 feet. Signs shall be 12 inches wide by 18 inches high and shall have red letters on a white reflective background. (OFC D103.6)



PAINTED CURBS:

Where required, fire apparatus access roadway curbs shall be painted red and marked "NO PARKING - FIRE LANE" at approved intervals. Lettering shall have a stroke of not less than one inch wide by six inches high. Lettering shall be white on a red background. (OFC 503.3)

KEY BOX:

A key box for building access may be required. Please contact the Roseburg Fire Department for an order form and instructions regarding installation and placement. (OFC 506)