



COSUMNES FIRE DEPARTMENT

10573 E Stockton Blvd.
Elk Grove, CA 95624

(916) 405-7100
Fax (916) 685-6622
www.yourcsd.com/fire

COSUMNES FIRE DEPARTMENT	
FIRE PREVENTION STANDARD	
Standard Title: Fire Apparatus Access Standard	
Code Section: 2019 California Fire Code	
Effective Date: 3/24/2020	Last Reissue/Revision Date: 3/24/2020

FIRE APPARATUS ACCESS STANDARD

SCOPE

This standard is for the requirement, construction and identification of Fire Apparatus Access Roads and is pursuant to the 2019 California Fire Code and local ordinance.

SPECIFICATIONS

1. Developers shall be responsible for the construction and identification of all new fire apparatus access roads in accordance with this policy. Owners and managers shall be responsible for the maintenance of fire apparatus access roads and their respective signs. Property owners shall not designate and identify any roadway on their property as a fire lane without prior fire district approval.
2. A minimum of 2 remote fire apparatus access roads shall be provided for: (CFC 503.1.2)
 - a. Single buildings in excess of 10,000 square feet.
 - b. Multiple buildings, of less than 10,000 square feet individually, but within a single parcel where the total combined square footage is in excess of 62,000 square feet.
 - c. Developments of one and two-family dwellings in excess of 39 dwelling units.
 - d. Multi-family dwellings in excess of 39 units.
3. Where 2 fire apparatus access roads are required, they shall be placed not less than one-half the length of the maximum diagonal dimension of the area to be served, measured in a straight line between points of access. (CFC 503.1.2)

Exception: One and Two Family Dwelling Developments. All subdivisions in excess of 39 lots shall have at least two fire apparatus access roads remotely placed as approved by both the city engineer and the fire code official.

4. Fire apparatus access roads shall be designed with an approved all-weather driving surface and maintained to support the imposed live load of 80,000 pounds, with a maximum axle load of 31,000 pounds, and meet Public Works Standards for roadways. All-weather is defined as a minimum surface finish of concrete or one layer of asphalt. (CFC 503.2.3)

Exception:

- a. Agricultural buildings not used for commercial purposes.
- b. Two or less single-family dwellings shall have, at a minimum, an aggregate base gravel road provided they are engineered to support 80,000 pounds gross vehicle weight in all weather conditions.

A report, prepared by a registered geotechnical or civil engineer, verifying the ability of the road to bear the required minimum weight, shall be submitted with any plan indicating construction of roadway. Verification of constructed roadway shall be provided by a registered geotechnical engineer prior to final of the project.

The use of turf-block or grass-crete or similar alternate road surfaces is not approved for installation in a fire apparatus access roadway.

5. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet and an unobstructed vertical clearance of not less than 13 feet 6 inches. (CFC 503.2.1)

Exception:

- a. Fire apparatus access roads serving not more than two, single family dwellings may be reduced to 16 feet in width.
- b. Split fire apparatus roadway with dividers shall not exceed 150-feet in length.

Fire apparatus access roads width shall be measured from the flow line to flow line of roadways that have curbs. When roadways do not have curbs, measurements shall be from the edge of the all-weather surface of the roadway, excluding the header or edge boards.

6. Fire apparatus access roads for aerial fire apparatus shall be provided for all buildings exceeding 30 feet in height. Aerial apparatus access roads shall be provided on at least 2 intersecting building sides. Overhead utility and power lines shall not be located over aerial apparatus access roads or between the access road and the building. The unobstructed width of aerial apparatus roads shall not be less than 26 feet. Aerial apparatus access roads shall be located in relation to buildings as follows: (CFC 503.1.1)
 - a. Buildings up to 40-ft in height, located a minimum of 14-feet from building
 - b. Buildings 41 to 50-ft in height, located a minimum of 20-feet from building
 - c. Buildings 51 to 60-ft in height, located a minimum of 27-feet from building

- d. Buildings 61-ft in height and greater, located a minimum of 33-feet from building

For the purposes of this section, building height shall be determined by the measurement to the eave of a pitched roof, the intersection of the roof to the exterior wall, or the top of parapet walls, whichever is greater.

- 7. Turns in fire apparatus access roads shall have a minimum turning radius of 50 feet outside and 25 feet inside. Required turn radius may increase for fire lanes provided for aerial operations. (CFC 503.2.4)
- 8. Fire apparatus access roads shall not exceed 10% in grade for asphalt and 5% for concrete. (CFC 503.2.7)
- 9. Fire apparatus access roads shall have an approach and/or departure angle not to exceed 8 degrees. (CFC 503.2.8)
- 10. Fire apparatus access roads in excess of 150' in length shall have an approved fire equipment turn-around within 50' of any dead end. The shape and dimensions of this required turn around shall be at a minimum those shown in Figure 1: A, C, D, and E for commercial properties and subdivisions. Figure 1: B is only for private roads with a maximum of four dwellings. (CFC 503.2.5)

PARKING

<u>ACCESS ROADWAY WIDTH:</u>	<u>PARKING RESTRICTIONS ON ROADSIDE:</u>
Less Than 28	No parking either side
28' to 35'	Parallel parking one side only
Over 35'	Parking allowed both sides

IDENTIFICATION OF FIRE LANES

All fire apparatus access roads shall be identified in accordance with Section 22500.1 of the California Vehicle Code. (CFC 503.3)

GATES

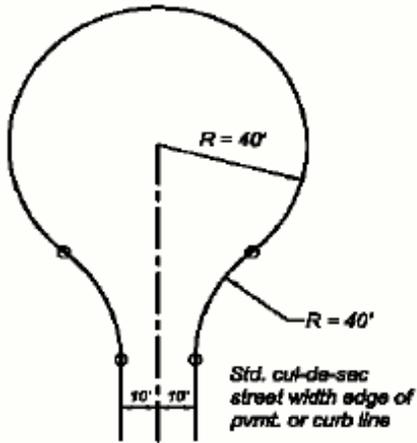
The installation of perimeter fencing, gates, or barriers that obstruct fire apparatus access roads shall require a separate plan submittal, review, and approval by the Fire District prior to installation. CFC 503.6

MINIMUM TURNAROUND STANDARDS

Private Property Only

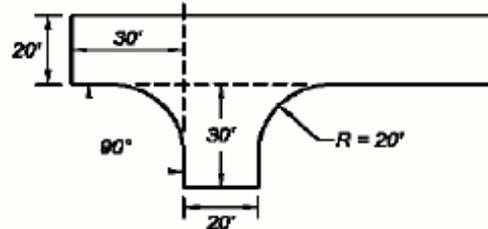
A

Bulb Turnaround



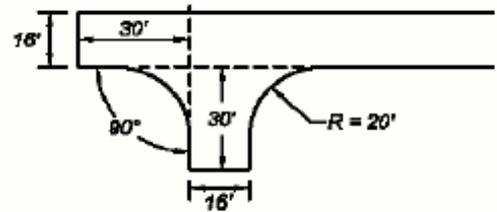
B

Typical Residential Drive Turn Around



OR

(Note: Serving two or less homes ONLY)



C

Typical Commercial Drive Turn Around

