



PRESCOTT FIRE DEPARTMENT
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PRIVATE RESIDENTIAL DRIVEWAYS AND ACCESS INTERPRETATION

The following criteria are the result of testing, review of emergency vehicle performance standards, and nationally accepted practices. The findings have prompted these design requirements for private and shared private drives leading to no more than two single-family dwellings (Group R-3). This information is not designed to be all encompassing of every situation. If you have any questions for your special needs, please contact Prescott Fire Department Fire Prevention.

Definitions:

All weather surface (AW) is a road surface made up of approved materials compacted to 95% and capable of supporting vehicles in excess of 75,000 pound G.V.W. under any weather condition. (i.e. decomposed granite)

Driveway is a vehicular ingress/egress access route that serves no more than two dwelling units, not including accessory structures. Driveways shall provide a minimum unobstructed width according to Table A and a minimum unobstructed height of 13 feet 6 inches. Driveways in excess of 150 feet in length shall be provided with turnarounds. Driveways in excess of 200 feet in length and less than 20 feet in width shall be provided with turnouts in addition to turnarounds.

Driveway Length is measured from the fire apparatus access roadway to the structure/garage.

Driveway Width is the surface width as measured from the edges of the designated, improved, drivable, surface. A 2'-12'-2' and 2'-14'-2' is a 2 foot unobstructed AW surface on both sides of a 12 or 14 foot driveway. See Table A

Grade is the degree of inclination of a slope, road, or other surface. (See **Slope** definition)

Hose Lay is the extension of a hand held fire hose, as it is extended around the perimeter of the structure. If the hose lay is more than 150 feet from the fire apparatus access road to all portions of the exterior, an **Operational Platform** is required.

Modified NFPA 13D is a residential fire sprinkler system that shall include sprinklers in vehicle garages, livable spaces and concealed or accessible spaces intended for storage use, and/or future living space.

Operational Platform is an area located, on site, where an emergency vehicle is staged while performing emergency medical or fire fighting tasks. The platform shall be a minimum of 20 feet by 30 feet with a maximum slope of 5 percent. Depending on terrain, the width and length may be extended as determined by the fire code official.

Slope is the ground, road or other surface that forms a natural or artificial incline. The percentage of slope is determined by dividing the rise by the horizontal run multiplied by 100 [% Slope = (Rise/Run) X 100].

Turn-a-round is an area for an emergency vehicle to turn-a-round. It is required when a structure is more than 200 feet from the fire apparatus access road. This can be accomplished with a circle drive with a 30 foot inside and 45 foot outside turning radius, a Cul-de-sac, or a "T"-type hammer head 12' or 14' X 76', or a variation thereof. See Private Driveway Diagrams.

Turn-out is an area for an emergency vehicle to pull over when another vehicle is passing in the opposite or same direction. This turn-out, which is required on all driveways which are 150 feet or greater in length, shall add 10 feet to the driveway width and extend 30 feet in length, minimum. See Private Driveway Diagrams.

TABLE A

ONE SINGLE FAMILY RESIDENCE

ACCESS GRADES FROM 0 TO 12% FOR ONE OR TWO SINGLE FAMILY RESIDENCE

Drive Length	Drive Width	Drive Surface	Turn-a-round Required	Sprinkler NFPA 13D Modified
150 - 200 feet	12	AW	Yes	Yes
More than 200 feet	2-12-2	AW	Yes	Yes

ACCESS GRADES FROM 12.1% TO 15% FOR ONE SINGLE FAMILY RESIDENCE

Drive Length	Drive Width	Drive Surface	Turn-a-round Required	Sprinkler NFPA 13D Modified
150 - 200 feet	2-12-2	Hard	Yes	Yes
More than 200 feet	2-14-2	Hard	Yes	Yes

ACCESS GRADES FROM 15.1% TO 18% FOR ONE SINGLE FAMILY RESIDENCE

Drive Length	Drive Width	Drive Surface	Turn-a-round Required	Sprinkler NFPA 13D Modified
150 - 200 feet	2-12-2	Hard	Yes	Yes
More than 200 feet	2-14-2	Hard	Yes	Yes



**PRESCOTT FIRE DEPARTMENT
PRIVATE DRIVEWAY DIAGRAMS**

