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18 & 22 Donahue Lane

1 message

Michael Killeen <killeenm@grafton-ma.gov>

Tue, Feb 7, 2023 at 5:26 PM

To: planningdept@grafton-ma.gov

Cc: Eric Mathieu <mathieue@grafton-ma.gov>, Jenine Grabau <grabauj@grafton-ma.gov>

Good afternoon,

Please keep the following in mind:

The following are the minimum requirements requested by the Fire Department:

- **Street numbers:** shall be visible from the street, day and night
- **Visual alarms:** alarm status shall be visible from the street
- **Roadways/Driveways/Parking Lots**
 - o Entrance shall be void of all obstacles to a minimum of 30 feet (i.e. light poles, trees, shrubs, stone walls, gates and posts, mailboxes, etc.)
 - o Should be at least 24 feet wide, preferably 28 feet wide
 - o Parking lots shall have turning radii that will accommodate fire apparatus
 - o To ensure access for fire apparatus, the radius of the paved portion of a cul-de-sac shall be no less than forty feet (40') and there shall be no obstructions (e.g., fire hydrants, utility boxes, light poles) within a radius of forty-two feet (42')
 - o Grade changes cannot change more than 5% in any 75 foot length, with minimal percentage change at changes of direction points (intersections)
 - o Street signs must be installed when roadway is cut
- **Fire Hydrants**
 - o Hydrants shall be provided every five hundred running feet (500') or portion thereof on one (1) side of each street. A hydrant shall in all cases be installed at the terminal end of each water main. A hydrant shall be located on each new main within five hundred feet (500') of the nearest supply main or, if no hydrants exist, within two hundred feet (200') of the connecting point and, where practical, at all road intersections. 500 feet apart is a maximum.
 - o Each hydrant shall be served directly from the water main by a lateral connection with not less than a six inch (6") inside diameter.
 - o Hydrant type, size and make, direction and pitch of threads shall be approved by the Fire Department.
 - o Hydrants shall be located no more than ten feet (10') from the edge of pavement. This should be a maximum of 10 feet off the curb.
 - o Hydrant locations shall be approved by the Fire Department.
 - o A hydrant should be located near the Fire Department Connection
- **Multiple entrances, multiple buildings with one entrance, and cross roads**
 - o Shall indicate the building numbers and numbering sequence
- Electrical, radio, and/or mechanical equipment shall not interfere with local and municipal radio equipment
- Fire Department shall have access to the perimeter, for firefighting purposes
- The need for a BDA, if not initially submitted with the plans, will be based upon testing that commences when the building is closed in

Regarding fire apparatus turning radius:

Cramp Angle: 45°

4.1.3 Inside Turning Radius: 21 ft. 4 in.

4.1.6.7 Curb to Curb: 38 ft. 2 in.

Wall to Wall 41 ft. 10 in.

There are no further questions or comments from the Fire Department at this time. Thank you.

2/7/23, 6:37 PM

Town of Grafton Mail - 18 & 22 Donahue Lane

Respectfully,

Captain Michael Killeen
Fire Prevention Officer
Grafton Fire Department