



CHARLOTTE FIRE DEPARTMENT

Fire Plans Review Section

**700 North Tryon Street
Post Office Box 31097
Charlotte, NC 28231-1097**

COMMERCIAL & RESIDENTIAL LAND DESIGN REQUIREMENTS

- Fire hydrant required within 750 feet of most remote point of building as truck travels.
- Fire hydrant required within 200 feet of fire department connection of all sprinklered commercial structures and 750 feet to residential sprinklered structures.
- Six-inch dead end water mains serving hydrants may not exceed 350 feet.
- Access roads, including bridges, culverts, etc., are required a 20 ft. wide all weather driving surface designed to hold 80,000 lbs and maintain a vertical clearance of 14 feet.
- Access roads are to be within 150 feet of all exterior walls of structure.
- Dead end travel distance for fire apparatus may not exceed 150 feet without turnaround.
- Turning radii are 30 feet inside and 42 feet outside.
- For multi-family buildings, emergency ladder access shall be provided from a finished grade that is no more than 15% maximum slope for a distance of 12 feet.
- Non-sprinklered structures are required to meet the ISO Needed Fire Flow calculation for required water supply. Residential or 13R sprinklered structures are required to meet 50% of the required flow.

FIRE PLANS EXAMINERS

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