# Appendix C

## Fire Hydrant Locations and Distribution

**TABLE C105.1**
**NUMBER AND DISTRIBUTION OF FIRE HYDRANTS**

| FIRE-FLOW REQUIREMENT (gpm) | MINIMUM NUMBER OF HYDRANTS | AVERAGE SPACING BETWEEN HYDRANTS[a, b, c] (feet) | MAXIMUM DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT[d] |
|---|---|---|---|
| 1,750 or less | 1 | 500 | 250 |
| 2,000-2,250 | 2 | 450 | 225 |
| 2,500 | 3 | 450 | 225 |
| 3,000 | 3 | 400 | 225 |
| 3,500-4,000 | 4 | 350 | 210 |
| 4,500-5,000 | 5 | 300 | 180 |
| 5,500 | 6 | 300 | 180 |
| 6,000 | 6 | 250 | 150 |
| 6,500-7,000 | 7 | 250 | 150 |
| 7,500 or more | 8 or more[e] | 200 | 120 |

For SI: 1 foot = 304.8 mm, 1 gallon per minute = 3.785 L/m.

a. Reduce by 100 feet for dead-end streets or roads.

b. Where streets are provided with median dividers which cannot be crossed by fire fighters pulling hose lines, or where arterial streets are provided with four or more traffic lanes and have a traffic count of more than 30,000 vehicles per day, hydrant spacing shall average 500 feet on each side of the street and be arranged on an alternating basis up to a fire-flow requirement of 7,000 gallons per minute and 400 feet for higher fire-flow requirements.

c. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at spacing not to exceed 1,000 feet to provide for transportation hazards.

d. Reduce by 50 feet for dead-end streets or roads.

e. One hydrant for each 1,000 gallons per minute or fraction thereof.