

UNIVERSITY OF NEW HAMPSHIRE
CONSTRUCTION AND RENOVATION STANDARDS

SECTION 02660 - WATER SUPPLY

PART 1 - GENERAL

All water used in potable water systems shall adhere to all American Water Works Association Standards as set forth in the accompanying AWWA Standards Index.

Fire Hydrant installations shall conform to the following specifications:

1. General purpose hydrants shall be spaced within 300 feet of each other in central business, limited business and office and research zones and shall be spaced every 800 feet elsewhere.
2. Primary hydrants shall be placed no closer than 50 feet nor more than 150 feet from the closet portion of the building they protect.
3. Building hydrants shall be within 300 feet of any portion of a structure greater than 6000 feet in area. If this is not possible, standpipes for Fire Department use shall be provided.
4. A hydrant shall be as close to Fire Department connections as possible without being in the building collapse zone and not more than 75 feet away.
5. Hydrants shall be protected from physical damage when judged necessary by the Durham Fire Department.
6. Hydrants shall be within 3 feet of paved road surface capable of withstanding use by fire apparatus.
7. Hydrants shall not be placed under power lines whenever possible or in other potentially hazardous locations.
8. Hydrant locations shall be specifically approved by the Durham Fire Department prior to installation.

PART 2 - PRODUCTS

1. Hydrants shall be capable of flowing 100 GPM at 20 PSIG in residential zones and 1500 GPM at 20 PSIG in commercial (central business, limited business, and office and research) zones as defined in the Town of Durham Zoning Ordinance.
2. Hydrant valves shall **OPEN LEFT** and shall be 6" SIZE.
3. A permanent marking post shall be provided when required by the authority having jurisdiction.
4. This marking post shall be yellow for pressure hydrants and red for hydrants providing 1-20 PSIG.
5. Hydrant colors are to be of reflective type paint as follows:
Pressure Hydrants
Barrel - Yellow
Bonnet - White

UNIVERSITY OF NEW HAMPSHIRE
CONSTRUCTION AND RENOVATION STANDARDS

Discharge caps will be as follows:

Class AA - (1500 + GPM @ 20 PSI) Light Blue

Class A - (1000 - 1500 GPM @ 20 PSI) Green

Class B - (500 - 1000 GPM @ 20 PSI) Orange

Class C - (Less than 500 GPM @ 20 PSI) Red

Hydrants with less than 20 PSI static and private hydrants

Barrel - Red

Bonnet - Red on public hydrants

- White on private yard hydrants

Discharge caps shall be color encoded as to maximum water flow capabilities regardless of residual pressures.

END OF SECTION