Shawna Bonshak

From: cjensen@townofcanandaigua.org
Sent: Tuesday, July 12, 2022 1:13 PM
To: 'Shawna Bonshak'
Cc: 'LBRABANT'
Subject: Subdivision - Westbrook
Attachments: Fire Apparatus Access.pdf

Shawna,

Only comment I have currently is fire apparatus access.

See attached section 511. Driveways
Turnaround(s) required
Turnouts required

Since it serves more than 4 buildings:
Section 503 applies (fire code)
20ft width

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APPENDIX D
FIRE APPARATUS ACCESS ROADS

SECTION D101
GENERAL

D101.1 Scope. Fire apparatus access roads shall be in accordance with this appendix and all other applicable requirements of the *Fire Code of New York State*.

SECTION D102
REQUIRED ACCESS

D102.1 Access and loading. Facilities, buildings or portions of buildings hereafter constructed shall be accessible to fire department apparatus by way of an *approved* fire apparatus access road with an asphalt, concrete or other *approved* driving surface capable of supporting the imposed load of fire apparatus weighing up to 75,000 pounds (34 050 kg).

SECTION D103
MINIMUM SPECIFICATIONS

D103.1 Access road width with a hydrant. Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet (7925 mm), exclusive of shoulders (see Figure D103.1).

D103.2 Grade. Fire apparatus access roads shall not exceed 10 percent in grade.

Exception: Grades steeper than 10 percent as *approved* by the *fire code official*.

D103.3 Turning radius. The minimum turning radius shall be determined by the *fire code official*.

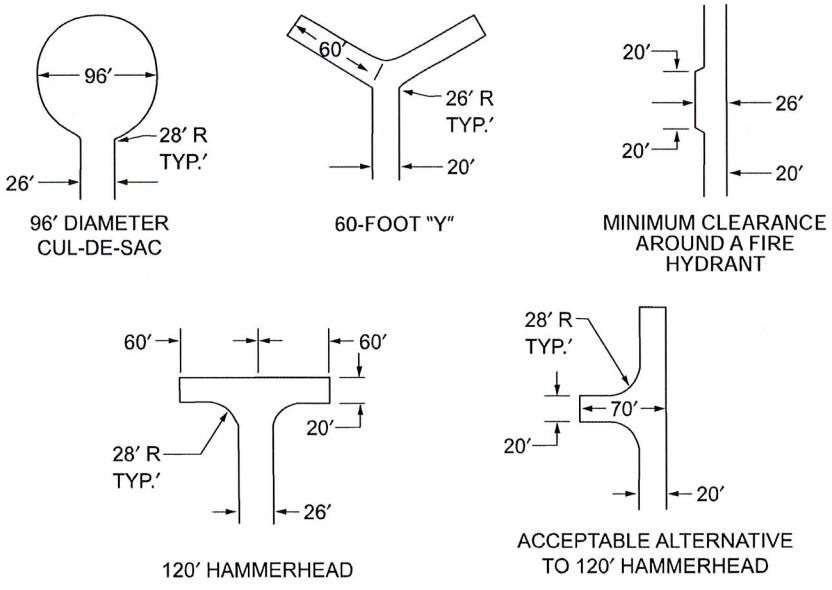
D103.4 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) shall be provided with width and turnaround provisions in accordance with Table D103.4.

TABLE D103.4
REQUIREMENTS FOR DEAD-END FIRE APPARATUS ACCESS ROADS

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0–150	20	None required
151–500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
501–750	26	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
Over 750	Special approval required	

For SI: 1 foot = 304.8 mm.

D103.5 Fire apparatus access road gates. Gates securing the fire apparatus access roads shall comply with all of the following criteria:



For SI: 1 foot = 304.8 mm.

FIGURE D103.1
DEAD-END FIRE APPARATUS ACCESS ROAD TURNAROUND

any indoor antenna. With both portable radios simultaneously keyed up on different frequencies within the same band, subjective audio testing shall be conducted and comply with DAQ levels as specified in Sections 510.4.1.1 and 510.4.1.2.

510.5.4 FCC compliance. The emergency responder radio coverage system installation and components shall comply with all applicable federal regulations including, but not limited to, FCC 47 CFR Part 90.219.

510.6 Maintenance. The emergency responder radio coverage system shall be maintained operational at all times in accordance with Sections 510.6.1 through 510.6.4.

510.6.1 Testing and proof of compliance. The owner of the building or owner's authorized agent shall have the emergency responder radio coverage system shall be inspected and tested annually or where structural changes occur including additions or remodels that could materially change the original field performance tests. Testing shall consist of the following:

1. In-building coverage test as described in Section 510.5.3.
2. Signal boosters shall be tested to verify that the gain is the same as it was upon initial installation and acceptance or set to optimize the performance of the system.
3. Backup batteries and power supplies shall be tested under load of a period of 1 hour to verify that they will properly operate during an actual power outage. If within the 1-hour test period the battery exhibits symptoms of failure, the test shall be extended for additional 1-hour periods until the integrity of the battery can be determined.
4. Other active components shall be checked to verify operation within the manufacturer's specifications.
5. At the conclusion of the testing, a report, which shall verify compliance with Section 510.5.3, shall be submitted to the *fire code official*.

510.6.2 Additional frequencies. The building *owner* shall modify or expand the emergency responder radio coverage system at his or her expense in the event frequency changes are required by the FCC or other radio licensing authority, or additional frequencies are made available by the FCC or other radio licensing authority. Prior approval of a public safety radio coverage system on previous frequencies does not exempt this section.

510.6.3 Nonpublic safety system. Where other nonpublic safety amplification systems installed in buildings reduce the performance or cause interference with the emergency responder communications coverage system, the nonpublic safety amplification system shall be corrected or removed.

510.6.4 Field testing. Agency personnel shall have the right to enter onto the property at any reasonable time to conduct field testing to verify the required level of radio coverage.

[NY] SECTION 511
EMERGENCY VEHICLE ACCESS

[NY] 511.1 Emergency access driveways. Emergency vehicle access for one- or two-family Group R-3 buildings and detached one- and two-family dwellings constructed in accordance with the *Residential Code of New York State,* hereafter constructed or moved into the jurisdiction, shall be provided in accordance with this section.

Exceptions:

1. Construction of dwellings on premises which have had local site plan approval prior to January 1, 2011, with no modification to *approved* site plan.
2. Accessory storage buildings.
3. Dwellings without electrical service and permitted to not have electrical service by the *Residential Code of New York State*.

[NY] 511.2 Driveways. Driveways shall be provided when an egress door required by Section R311 of the *Residential Code of New York State* is located more than 300 feet (91 440 mm) from a fire apparatus access road or public street.

Exception: The measurement is permitted to be increased beyond 300 feet (91 440 mm) if driveways cannot be installed because of location on property, topography, waterways, nonnegotiable grades or other similar conditions and the building is protected by an automatic sprinkler system in accordance with Section 903.3.1.1, 903.3.1.2, 903.3.1.3, or Section P2904 of the *Residential Code of New York State*.

[NY] 511.2.1 Dimensions. Driveways shall provide a minimum unobstructed width of 12 feet (3658 mm) and a minimum unobstructed height of 13 feet, 6 inches (4115 mm).

[NY] 511.2.2 Turnaround. When driveways are in excess of 500 feet (152 400 mm) in length and do not exit to another fire apparatus access road or public street, a turnaround shall be provided suitable for use by fire apparatus.

[NY] 511.2.3 Turnouts. Driveways in excess of 500 feet (152 400 mm) in length and less than 20 feet (6096 mm) in width shall be provided with turnouts along the driveway that are a minimum 20 feet in width for a length of 50 feet (15 240 mm) in length. The turnouts shall be placed at intervals not to exceed 500 feet (152 400 mm) along the driveway.

[NY] 511.2.4 Stability. Driveways, including bridges and other supporting structures of driveways, shall be constructed to support fire apparatus in all weather conditions.

[NY] 511.2.5 Design. The design of driveways, including turning radius and grade, shall facilitate passage of fire apparatus and be approved.

[NY] 511.2.6 Driveways serving more than four buildings. Driveways, and portions thereof, that serve more than four buildings shall meet the design requirements for fire apparatus access roads as specified in Section 503.