



FIRE PROTECTION REQUIREMENTS

FIRE APPARATUS ACCESS

INCLUDING FIRE LANES, GATES, AND ACCESS ROADS

Bureau of Fire Prevention

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**** PERMIT REQUIRED ****

This publication outlines the fire protection requirements for the design and installation of any required fire lanes within the Village of Hebron and Union Township. As a reminder, unless otherwise specified, anything that requires you to obtain a permit from the fire department may also require you to obtain a permit issued by the Licking County Building Code Department (LCBC), Union Township's Zoning Administrator (UTZ), and/or the Village of Hebron's Planning and Zoning Department (HPZ). Their offices are located at:

- LCBC: 675 Price Road, Newark, OH 43055 / (740) 349-6671
- UTZ: 1380 Beaver Run SE, Hebron, OH 43025 / (740) 928-7655
- HPZ: 934 W. Main Street, Hebron, OH 43025 / (740) 928-0076

***** PLEASE REVIEW THIS ENTIRE PUBLICATION BEFORE TAKING ACTION *****

Questions regarding the content of this publication should be directed to the Bureau of Fire Prevention at (740) 928-4721 ext. 111 during regular office hours, Monday thru Friday

OVERVIEW. The proper design and installation of a fire lane is an important part of providing efficient and effective fire protection. Therefore, the design and installation of any required fire lane shall be :

- Approved by the Bureau of Fire Prevention of the Hebron Fire Department
- In accordance with the most current version of the Ohio Fire Code (OFC) as required by Ohio Revised Code (ORC) 3737.82.
- In accordance with all code requirements of the respective political jurisdiction.

APPROVAL REQUIRED. As outlined in OFC Section 501.3, approved construction and site plans shall be submitted to ensure proper code compliance and that the fire protection needs are met. All construction documents shall be approved prior to the start of construction.

DEFINITIONS. The following words, terms, and acronyms shall, for the purposes of this standard and the permit requirements of the Hebron Fire Department, have the meanings shown herein:

Approved Roof Access. A safe, permanently mounted ladder or set of stairs that was designed and installed for the specific purpose of gaining access to the rooftop. The access must be a minimum 3 foot x 3 foot opening.

EMS. Emergency Medical Services

Fire Apparatus Access Road. A road or other passageway developed to allow the passage of fire apparatus.

Fire Lane. The designated portion of an access road that must be kept clear to allow the ingress and egress of fire and ems vehicles.

Fire Protection Equipment. Any object or system designed to help protect a building, it's contents, and it's occupants from the threat of fire. (Ex. fire hydrants, sprinkler system components, etc.)

HVAC. Heating, ventilation, and Air Conditioning

Occupancy Groups

F. Factory/Industrial (Manufacturing, processing, etc.)

H. High Hazard (Explosion hazards, high quantity of flammable liquids, etc.)

I. Institutional (Hospitals, jails, nursing homes, etc.)

R-3. Permanent residential units (Single family dwellings, etc.)

S. Storage (Warehouses, etc.)

U. Miscellaneous (Barns, tanks, towers, silos, etc.)

OFC. Ohio Fire Code, current edition

ORC. Ohio Revised Code

GENERAL REQUIREMENTS. The Fire Marshal and/or the Fire Chief shall determine which access roads and fire lanes shall comply with this standard. The determination shall also be made as to the extent of the fire lane designation. In the event that a requirement set forth in this document, which is contradictory to that of any order issued by another applicable authority, code, or law, the most stringent order shall be enforced.

FIRE APPARATUS ACCESS ROADS. Approved fire apparatus access roads shall be provided for every facility, building, or portion of a building hereafter constructed or moved into or within the jurisdiction which are not readily accessible from a public and/or private street.

APPLICATION. Fire apparatus access roads shall extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building, as measured by an approved route around the exterior of the building or facility. Deviations to this requirement may occur in cases such as when the topography or property does not allow for this to occur or when there are no more than two structures meeting the occupancy classification of a Group R-3 or U.

SPECIFICATIONS. All fire apparatus access roads, parking areas within 150 feet of a structure, or any other location that the Fire Marshal and/or Fire Chief deem necessary for access by fire apparatus shall provide the following:

WIDTH. A minimum unobstructed width of 20 feet shall be provided, excluding the shoulder, parking areas, or any other locations that may obstruct the access or travel of fire apparatus. This width shall be increased to 25 feet when any of the following conditions apply:

- The occupancy use has been identified as a Group F, H, I, or S
- The structure has a height greater than 30 feet
- The structure has a mechanical device installed on the roof (ex. HVAC)
- The structure does not have an approved roof access
- Fire hydrants present along the access road

CLEARANCE. An unobstructed vertical clearance of not less than 13 feet, 6 inches shall be provided.

SURFACE. The surface of a fire apparatus access road shall be asphalt, concrete, or other approved surface that is capable of supporting a minimum weight of 75,000 pounds.

GRADE. The grade of a fire apparatus access road shall not be greater than 10%, unless otherwise approved by the Fire Marshal and/or Fire Chief.

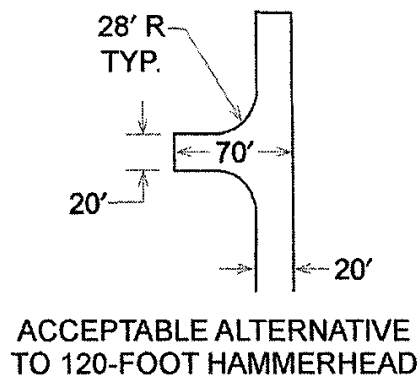
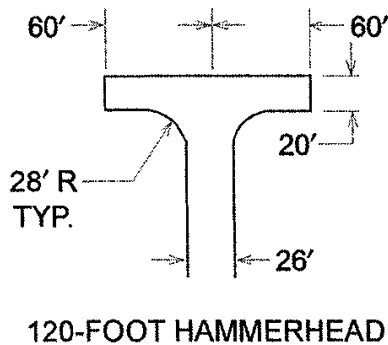
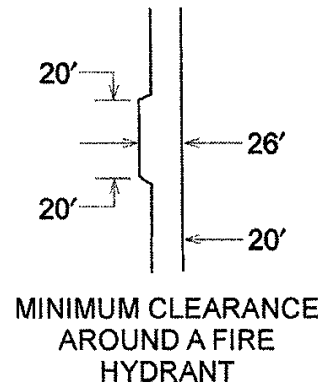
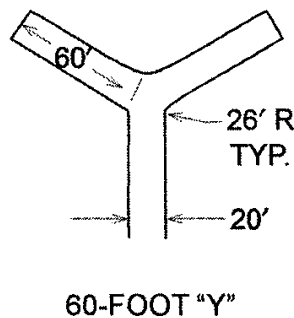
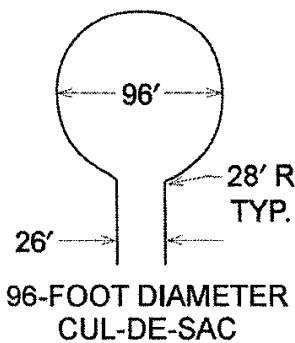
DEAD ENDS. Fire apparatus access roads in excess of 150 feet in length shall provide an approved area that will allow fire apparatus to turn around. The design of the turn around shall be consistent with following:

LENGTH

151-500 Feet: 120-Foot Hammerhead, 60-Foot "Y", or 96-Foot Diameter Cul-De-Sac with a road width of 20 feet.

501-750 Feet: 120-Foot Hammerhead, 60-Foot "Y", or 96-Foot Diameter Cul-De-Sac with a road width of 25 feet.

Over 750 Feet: Permission required by Fire Marshal and/or Fire Chief.



SECURITY GATES. Any gate obstructs the access of fire apparatus shall meet the following requirements:

- Have a minimum gate width equivalent to the width required of the fire apparatus access road.
- Be capable of being operated by one person.
- In the case of non-electric gates, shall have a Knox Box mounted in a location designated by the fire code official. Gates of this type, specifically installed to accommodate fire department access, shall be secured with a Knox Padlock.



- In the case of electric gates, shall have a Knox Access Switch installed in a location approved by the fire code official. The switch shall allow for a “hold open” feature.
- Gates that require fire apparatus to turn into them shall be designed to accommodate the turning radius of an aerial apparatus.

FIRE LANES. Fire lanes are designed to provide fire apparatus with unimpeded access to a building, so that firefighters may be able to perform their duties more effectively. Unfortunately, many fire lanes continuously become obstructed, because the identification of the fire lane is not evident enough to attract the attention of the person obstructing it. In an effort to correct this, the following requirements have been established for all designated fire lanes. Note that a fire lane is not the same as a fire apparatus access road, so it is not required to be identified in this manner unless otherwise ordered by the Fire Marshal and/or the Fire Chief.

IDENTIFICATION. The length of fire lanes shall be identified with both of the following methods, unless otherwise determined by the Fire Marshal and/or Fire Chief:

(1) Signs. See Exhibit A

- Shall be placed along the length of the fire lane every 150 - 175 feet or as required by the Fire Marshal and/or Fire Chief. Each section and/or direction shall have at least one sign with arrows indicating the area of the fire lane.

- Signs shall be of standard size, constructed of aluminum, and mounted between 4 - 5 feet high from the finished grade on a post or building face.

- Signs shall contrast with the background and be reflective red-on-white or white-on-red, as determined by the Fire Marshal and/or the Fire Chief.

(2) Painted Area. See Exhibit B

- All curbing which outlines the fire lanes shall be painted red. White lettering reading "NO PARKING FIRE LANE" shall be a minimum of 4 inches tall and placed every 30 - 50 feet or portion thereof. The lettering shall be placed on the face of the curb, or top when faceless curb is present, and at least once on each section and/or direction. See Exhibit C for diagram.

- The baseline opposite the curb shall be at least 4 inches wide and outlined with a 1 inch white stripe on the top and bottom. White lettering reading "NO PARKING FIRE LANE" shall be a minimum 3 inches tall and be spaced in the center between each writing block on the curb so that it alternates.

- The space between the curb and baseline shall have minimum 4 inch wide red stripes painted at a 30 degree angle spaced every 3 feet. Spaced in the center between the baseline and curb shall have the words "NO PARKING FIRE LANE" painted in white. The height of this lettering shall be equal to 20% of the distance between the curb and baseline.

FIRE PROTECTION EQUIPMENT. Equipment shall have a red curbing and/or a minimum of 8 inch wide additional red stripping . White lettering reading "NO PARKING FIRE LANE. Dry hydrants may not be required to have a painted area, but all shall have a sign as indicated in Exhibit D.



Exhibit A



Exhibit B

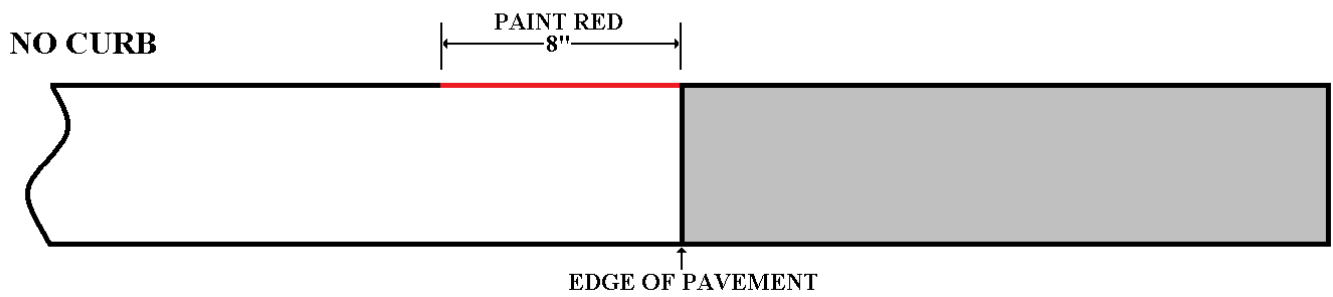
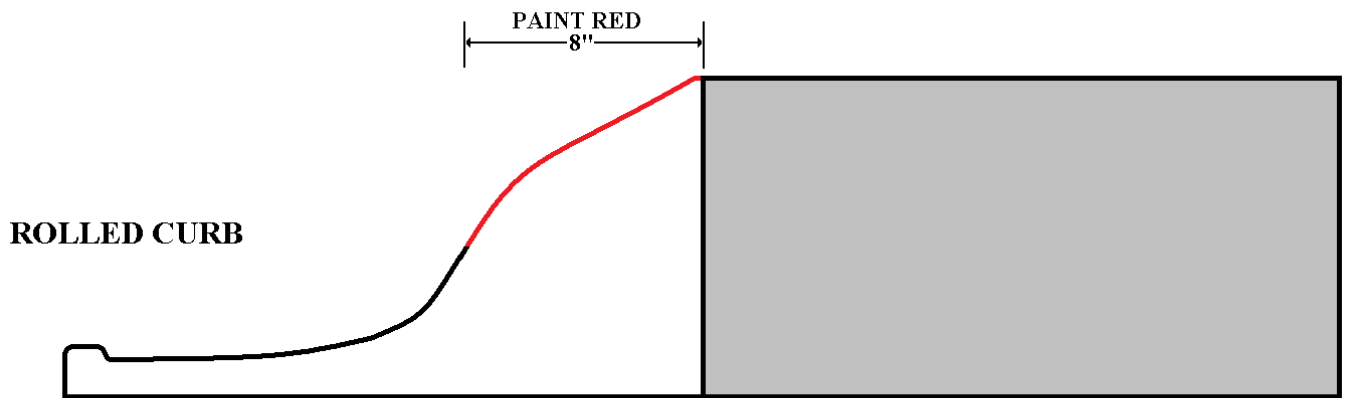
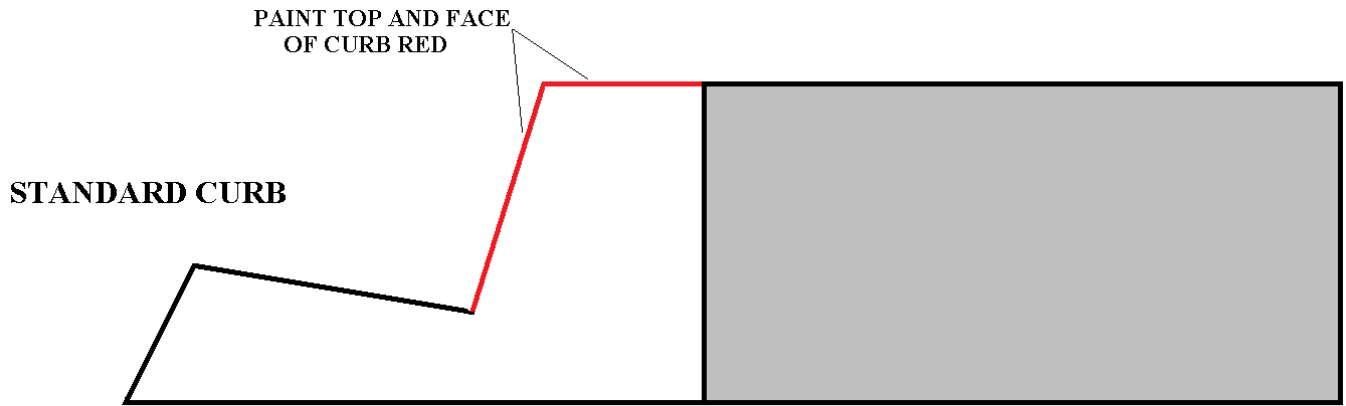


Exhibit C



Exhibit D