



## Las Vegas Fire & Rescue Fire Prevention Division Information Sheet



Effective Date: February 1, 2011

CLV Ordinance #6124

*The items listed are basic information only. Codes are subject to change. Additional requirements may apply.*

### General Notes for Hydrants and Access

All work shall be done in strict accordance with the Las Vegas Fire and Rescue adopted Fire Code Ordinance # 6124 for Hydrant Specifications and Hydrant Installation Specifications. Authorized fire hydrants are as follows;

- Kennedy – Guardian models K81A and K81D
- Mueller – Super Centurion 250, model A-423
- Clow – Medallion model F-2546LVD
- Troy Valve – Patriot model PT8100N, Nevada Hydrant
- U.S.Pipe – Metroflow/M-03

A permit is required from Las Vegas Fire and Rescue for the installation of on-site water lines and fire hydrants. The permit and contractors material test certificate for underground piping form shall be obtained from the Fire Protection Engineer before commencement of work.

On any residential or commercial installations, fire hydrants shall be installed and fire apparatus access roads shall be maintained before commencement of any combustible construction. All fire hydrants shall be in good working order and shall be capable of delivering the required fire flow. SNFC #6124, section 1412.

To identify the fire hydrant locations, the contractor shall place a blue reflective marker at the center line of the street adjacent to the fire hydrants. SNFC #6124 section 507.5.7.3

All underground inspections, pressure and flush verifications of all fire hydrants and fire lines, shall be conducted before covering the lines. Center loading is acceptable for the hydro tests with prior Fire Prevention approval

All on-site underground water mains and materials shall be U.L. listed, A.W.W.A approved and shall be rated for the appropriate working pressure. SNFC 507.2.1, NFPA 24

Painting of curbs, fire hydrants, pads, protection of fire hydrants from physical damage, and all other work necessary per plans shall be completed before approval by Las Vegas Fire and Rescue, Fire Prevention division. IFC 507; SNFC 507.5.7

Private hydrants shall be painted RED. SNFC 507.5.7.1



## Las Vegas Fire & Rescue Fire Prevention Division Information Sheet



Prior to the final occupancy, a fire flow test shall be witnessed by Las Vegas Fire and Rescue, Fire Prevention Division to verify availability of the required fire flow. IFC 507; SNFC 507.1

Fire hydrant spacing shall be as follows: SNFC C102

- Residential – 500 ft unsprinklered; 600 ft sprinklered.
- Commercial – 300 ft unsprinklered; 400 ft sprinklered.

Where the water mains are extended along streets or new streets are installed where fire hydrants are not needed for protection of the structures, fire hydrants shall be installed at a maximum of 1000 ft spacing, to provide for transportation hazards. Where streets are provided with median dividers or have four (4) or more traffic lanes and have a traffic count of more than 30,000 per day, hydrants are required on each side of the street spaced at 500 ft on an alternating basis. SNFC C102.14

No fire hydrants shall be located within the radius of a cul-de-sac or within 20 ft of the perimeter of the radius of the cul-de-sac.

No fire hydrants shall be located within 6 ft of any curb return, driveway, power pole, streetlight or any other obstruction. SNFC C102.12

A maximum distance from a fire hydrant to a one-two family dwelling shall not exceed 300 ft, as measured by an approved route. SNFC 102.4

The maximum distance from a fire hydrant to a Fire Department Connection (FDC) shall not exceed 100 ft, as measured by an approved route. SNFC C102.7

The maximum distance from a hydrant to the end of a dead-end street shall not exceed 200 ft. SNFC 102.6

Two (2) sources of supply are required whenever there is 4 or more fire hydrants/sprinkler lead-ins are installed on a single system. Sectional control valves shall be installed so that no more than 2 fire hydrants can be out of service due to a break in a water main.

All fire apparatus access roads shall be paved to provide all-weather driving capabilities, and shall be designed and maintained to support the imposed loads of the fire apparatus. SNFC 503.2.3

The gradient for the fire apparatus access roads shall not exceed 12%. Angles of approach and angles of departure shall not exceed 6% for 25 ft prior to or after the grade change. Adjacent to the structures gradient shall not exceed 6%. SNFC 503.2.7 / 503.2.8



## Las Vegas Fire & Rescue Fire Prevention Division Information Sheet



The turning radius of the fire apparatus access roads shall be no less than 52 ft outside and 28 ft inside turning radius. SNFC 503.2.4

Vertical clearance of all fire apparatus access roads shall not be less than 13ft 6 ins. SNFC 503.2.1.1 / IFC 503

Fire department access roads in all **residential** developments (except apartment buildings) shall have a minimum unobstructed width of not less than 36 ft flow line to flow line (this width may be reduced to 24 ft if all buildings fronting the street are sprinklered) for main residential streets, with parking permitted on both sides of the street. Private drive aisles, driveways, etc. shall be allowed to be reduced to a minimum width of 24 ft flow line to flow line when serving no more the 6 residents, and when on street parking is disallowed. SNFC 503.2.1 / 503.2.11

All fire apparatus access roads in **commercial** developments and **apartment complexes** shall have a minimum unobstructed width of not less than 24 ft (flow line to flow line), provided no parking is allowed on either side; 32 ft (flow line to flow line), with parallel parking on one side. and 36 ft (flow line to flow line), if parallel parking is allowed on both sides. These widths may be reduced to 24 ft if sprinklered. SNFC 503.2.1.1

A fire apparatus access road shall be required when any portion of an exterior wall of the first story is located more than 150 ft from a fire department vehicle access. This distance could be increased to 250 ft if the building is sprinklered. IFC 503.1.1 / SNFC 503.11

Approved secondary fire apparatus access shall be provided for 100 or more dwelling units, road(s) with dead-ends or with a single point of access in excess of 600 ft, and for all commercial, industrial, and multi-family residential developments. SNFC 503.1.2

All dead-end fire apparatus roads and/or fire lanes, public or private, in excess of 150 ft in length shall be provided with an approved turn around having a minimum diameter of 81 ft. SNFC 503.2.5

All fire apparatus access roads shall be marked by placing approved signs at the start of the designated fire lane, one sign at the end of the fire lane and with signs at intervals of 100 ft along the designated fire lanes. Signs to be placed on both sides of an access roadway if needed to prevent parking on either side. Signs to be installed no higher than 10 ft or less than 6 ft from the roadway level. The curb along or on the pavement or cement (if no curb is provided) shall be painted with a red weather resistant paint in addition to the signs. SNFC 503.3



## Las Vegas Fire & Rescue Fire Prevention Division Information Sheet



Electrically controlled access gates shall be provided with an approved emergency vehicle detector/receiver system. Said system shall be installed in accordance with the City of Las Vegas guidelines for Automatic Emergency Vehicle Access Gates. IFC / SNFC 503.6

**Las Vegas Fire & Rescue**  
Fire Prevention Division  
(702)229-0366  
[www.lasvegasnevada.gov/LawsCodes/fire\\_code.asp](http://www.lasvegasnevada.gov/LawsCodes/fire_code.asp)