

**CITY OF HENDERSON
FIRE DEPARTMENT GENERAL NOTES
FIRE SPRINKLER**

1. The installation and maintenance of the sprinkler systems shall be in accordance with the applicable National Fire Protection Association (NFPA) Standard; NFPA 25, 2011 Edition - Inspection, Testing, and Maintenance of Water Based Fire Protection Systems; and the International Fire Code, 2012 Edition, Chapter 9 – Fire Protection Systems; (as amended and adopted on August 6, 2013 by the City of Henderson). Check all applicable boxes.
 - NFPA 13, 2013 Edition – Installation of Sprinkler Systems
 - Modified NFPA 13 - Single Family Residential (> 15,000 SF)
 - NFPA 13R, 2013 Edition – Residential Occupancies Up to 2 Stories in Height
 - Enhanced NFPA 13R - Single Family Residential > 10,000 and < 15,001 SF)
 - NFPA 13D, 2013 Edition – Residential 1- and 2-Family Dwellings (< 3,601 SF)
 - Enhanced NFPA 13D (Single Family Residential > 3,600 and < 10,001 SF)
 - NFPA 14, 2013 Edition – Standpipe and Hose Systems
 - NFPA 20, 2013 Edition – Stationary Pumps for Fire Protection
 - NFPA 24, 2013 Edition – Private Fire Service Mains and Their Appurtenances
 - Other _____

2. All hydrostatic tests of systems and flushing of underground systems must be witnessed by a representative of the authority having jurisdiction. The authority having jurisdiction: Henderson Public Works Department – Quality Control Division, for all underground work, (except for Enhanced NFPA 13R and Modified NFPA 13 underground lead-ins: Henderson Fire Safety Inspections) must be notified 24 hours before any test. All portions of the automatic sprinkler system, including the underground service from the gate valve, road box or check valve to the riser, must be installed, tested and flushed by a company licensed by the State fire marshal to perform this work. **HMC §15.32.050 & NAC 477.465 (5).**

3. If any fire area in a building or structure is provided with fire sprinklers, whether required or not, all fire areas in the building or structure shall be provided with fire sprinklers except as permitted by IFC Section 903.2 or where specific sections of NFPA Standards permit the omission of sprinklers. **IFC §903.2 and §903.2 As Amended.**

4. Fire Department Connection (FDC) shall be within 100 feet of a fire hydrant and shall face the fire lane or street. FDC shall not be closer than 3 feet to any door or window opening and shall not be obstructed by trees, shrubs, parking spaces, etc., and a 3-foot clear space shall be maintained around the FDC inlets. FDC inlets shall be located not less than 18” above finished grade and not more than 48” above finished grade.

5. All Post Indicator Valves (PIV) shall be electronically supervised (tamper switch) and shall be located no closer than 5 feet to the building. PIV’s shall be set so that the top of the post is 32 to 40 inches above finished grade and shall be protected against damage where needed.

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6. Building use(s): _____
Hazard classification(s): _____
Density(ies): _____ gpm/sq.ft.
Area reduction for Quick Response heads based on a ceiling height $x=$ _____ ft.
 $Y= \frac{-3x}{2} + 55 =$ _____ % reduction allowed (maximum 40%)
Total number of sprinklers flowing: _____ (minimum 5 sprinklers)
Nominal "K" Factor (s): _____
Thread types: _____ in. NPT
Maximum design spacing: _____ sq. ft. per head
7. Pipe types used (black steel unless noted otherwise):
1" – 2" Threaded pipe type: _____
1¼" – 4" Welded/Grooved pipe: _____
6" – 8" Welded/Groove pipe: _____
Other: _____
8. Water flow information:
 City Supplied information
 Actual Flow Test
Static Pressure: _____ psi
Residual Pressure: _____ psi
Pitot Pressure: _____ psi
Outlet Size: _____ in. Number flowing: _____
Total Flow: _____ gpm
Date & Time: _____
Witnessed By: _____
9. Concealed Work. Fire sprinkler piping shall not be covered up by walls, sheetrock, ceiling tiles, etc. until after fire sprinkler rough & hydro inspections are signed off by the fire inspector. Piping that is covered or concealed prior to inspection signoff shall be exposed for inspection. **IFC §106.3**
10. Specify the total area protected by each system on each floor and the number of sprinklers on each riser per floor. **NFPA 13 §23.1.3**