



# Clark County Fire Department Fire Prevention Bureau

*Mission Statement: "To provide the highest level of fire protection and related services"*

105.8.f.2-4

**TITLE:** AUTOMATIC FIRE SPRINKLER SYSTEMS – NFPA 13-D  
SINGLE FAMILY RESIDENCES

**SCOPE:** Automatic fire sprinkler systems shall be installed in accordance with this guide and the requirements contained in the NFPA codes and standards and the 2005 Clark County Fire Code.

**PURPOSE:** To provide standardized Fire Department requirements relating to the installation and permitting of automatic fire sprinkler systems for one- and two-family dwellings and manufactured homes.

## SPECIFICATIONS AND REQUIREMENTS

At the time of permit application, three (3) sets of plans, drawn to an indicated scale (1/4" or 1/8" scale preferred), must be submitted for review and approval. Permit fees for this type of submittal vary. The standard permit fee is due upon submittal. Please see the **Clark County Fire Department Permit and Service Fee Schedule** for specific information. Please check our website for plan status. Any additional fees will be indicated on the website. Once the plans have been approved and any outstanding fees have been paid, an inspection can be scheduled.

Our website is <http://www.accessclarkcounty.com/fire/firedept.htm>. To check on plan status, click on the "Plan Status" button and follow the instructions. To schedule an inspection, click on "Services" in the teal strip on the top. On the left side under **Inspection** click on "Fire Inspection" and follow the instructions.

Plans shall be drawn to an indicated scale or be suitably dimensioned. Sectional/elevation views shall be submitted on complicated systems.

Plans shall indicate the location of all elements of the automatic fire sprinkler system including, but not limited to, the following:

- a. A sprinkler legend indicating the number of sprinkler(s), manufacturer, temperature rating, model number and K-factor
- b. Type and size of piping and size of water meter – must be rated for fire service.
- c. Water supply source (reliable waterworks system, storage tank with pump, etc.)
- d. The connection to the domestic water system, including location of all control valves, drains, test connections and pressure gauges
- e. Method of pipe support
- f. Location of glass or plastic skylights, unventilated concealed spaces and distance from heat sources
- g. System type (wet pipe or anti-freeze). If anti-freeze system, include percentage of solution and method of connection to wet pipe system
- h. The location of all fire sprinklers, include references that support sprinkler omissions.
- i. Method of freeze protection

Also, include with the plan submittal all the hydraulic calculations and any necessary specifications sheets (sprinklers, etc.)