



**Broward Sheriff's Office
DEPARTMENT OF FIRE RESCUE AND EMERGENCY SERVICES
Fire Marshal's Bureau**

WESTON DISTRICT
17250 Royal Palm Boulevard
Weston, Florida 33326
954-385-0500 Fax: 954-384-7723

FIRE SPRINKLER SHOP DRAWING SUBMITTAL REQUIREMENTS

A **Fire Sprinkler System Shop Drawing** is required for review by the Fire Prevention Bureau for any modification(s) or change(s) to existing fire sprinkler systems and any new installations. The Fire Sprinkler System Shop Drawing(s) must include all of the information listed below. ***If any portion does not apply, a note must be provided on the plan stating that it is not applicable.*** If any portion of the requested information is not provided or clarified, the plan will be returned for that provision or clarification to be made and a re-examination fee may apply. Should you have any questions, please contact the Fire Prevention Bureau with the information provided in the letterhead.

THE FIRE SPRINKLER SYSTEM SHOP DRAWINGS MUST INCLUDE ALL OF THE FOLLOWING INFORMATION:

1. A detailed scope of work.
2. A Scaled plan with the scale indicated.
3. North Directional Indicator.
4. A total square footage of the work area or tenant space.
5. A complete legend in accordance with the Fire Safety Symbols of NFPA-170, Current Adopted Edition. (to include all symbols related to plan).
6. The plans must be signed and sealed by the architect and/or engineer. If the job value is less than \$5,000.00 and the plan is not signed and sealed by the architect or engineer, provide a copy of the signed contract with the plan submittal.
7. A note on the plan indicating that all drawings and installations shall comply with NFPA 13, current adopted edition.
8. Product spec sheets for all sprinkler system components.

9. Identify all of the following:
 - Occupancy Classification.
 - Commodity Classification (In accordance with NFPA 13.5.6.3),
 - Classification of Hazard (In accordance with NFPA 13:5.1 through 13:5.5)
10. Piping material information, hanger detail and locations. In addition, provide a note on the plan indicating that hanger spacing is in accordance with NFPA-13, current adopted edition, Chapter 9, Table 9.2.2.1.
11. Any methods of storage (Rack, Pallets, Palletized Rack Storage, Encapsulated, Storage of Idle Pallets, etc.) If no storage, indicate on the plan.

NOTE: *The plan will be rejected if the storage method is not identified on the plan.*

12. The locations of any Rack Storage or Shelving and a scaled layout, elevations and type of racks or shelves being used.
13. A sectional drawing for all areas with drop-down ceilings and/or concealed spaces.
14. The location of, and identification of all Valves,
 - Isolation Valves
 - Water Flow Alarms
 - Tamper Switches/Alarms
 - Fire Department Connections (FDC's)
 - Backflow Prevention Devices
15. The location of the Fire Pump (where applicable) and other related information (size, capacity, etc.)
16. A note that spare sprinklers will be provided in accordance with NFPA-13, 6.2.9.
17. Any concealed spaces.
18. All information as listed on the hydraulic nameplate for the system. This must be demonstrated on the plan. (NFPA 13:16.5)
19. Hydraulic Calculations are required for the addition or relocation of seven (7) or more fire sprinkler heads (per BSO A.H.J.) - ***to be signed and sealed by a Fire Protection Engineer.***

Hydraulic Calculations must include all the following:

- a. **Provide a summary sheet** to include all the following where applicable (NFPA 13:14.3.2)
- b. **Provide a detailed worksheet** to include all the following where applicable (NFPA 3:14.3.3)
- c. **Provide a Graph Sheet** of the complete hydraulic calculation plotted on a semi-exponential graph paper to include all the following where applicable (NFPA 13:14.3.4)

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- 20. ***A letter-format response is required for all corrections made to any portion(s) of the plan indicating the page or sheet numbers where the corrections can be found. Failure to provide this letter format response will result in the plan being rejected without review. Additional plan review fees shall be applied.***
- 21. ***If any item(s) is overlooked in the plan review process and discovered during the field inspection it MUST be corrected to meet the actual code requirements.***