



**Requirements for Fire Prevention &
Fire Alarm Plan Review Submittals**

Under the authority granted in section 1.14.1 of the Rhode Island Uniform Fire Code, the following rules are promulgated for submittal of construction documents and shop drawings:

1. Submit completed Fire Department plan review application (**REV 01/08**). Application for plan review may be made by the owner, lessee of the premises, or by the agent of either, or by the engineer, architect, or designer employed in connection with the proposed work.
2. Submit copy of building permit application (applicant shall obtain from the Building Inspector's Office).
3. Submit plan review fee in accordance with Ordinances of the City of Providence. No cash or temporary check will be accepted. Checks shall indicate name, address, and phone number. All checks shall be made payable to "**Providence City Collector**".

Fee Schedule*

CONSTRUCTION COST

FEE

\$500 or less	\$25
\$501 TO \$1,000	\$35
\$1,001 TO \$2,000	\$45
\$2,001 TO \$500,000	\$45 + \$6 for each additional \$1,000 or fraction thereof over \$2,000
\$500,001 & up	\$3,033 + \$4 for each additional \$1,000 or fraction thereof over \$500,000

*Effective date: September 1, 2007

The applicant may be required to submit documentation of bids or estimates if there is a dispute regarding the proposed construction costs. Refer disputes to the City Fire Marshal.

4. The application for review shall be accompanied by not less than two (2) copies of construction drawings drawn to scale with sufficient clarity and detailed dimensions to show the nature and the character of the proposed work. Where deemed necessary, test numbers or other data may be required to document code conformance. One (1) project manual/specification manual shall also be required, where produced in conjunction with drawings. Not less than one (1) sprinkler plan and one (1) complete set of hydraulic calculations shall be **wet stamped by the engineer of record and shall bear an original signature and date in contrasting color.**

5. Fire Alarm Systems Plans:

Submittals shall include plans showing the entire building (even if work is limited) including all floors and attic spaces labeling all rooms and including a device legend, and single line diagram. The submittal shall also include specification sheets (cut sheets) on all fire alarm devices to be used. For all high rise and large buildings consult with a Fire Alarm Inspector prior to submitting as a narrative report may be required.

6. Fire Protection Systems:

A narrative report shall be submitted for all fire protection systems in high-rise building and other buildings as deemed necessary by the City Fire Marshal. The narrative report is intended to provide a single document, which describes the design rationale of all fire protection systems and the interface between systems. If further assistance is required, ask for publication FP100, Guidelines for the Preparation of Fire Protection System Narrative Reports (Available at the Fire Prevention Office).

7. Sprinkler System Plans:

- a) Working plans shall be submitted for approval before any equipment is installed or remodeled. Deviation from approved plans will require permission.
- b) Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor, and shall meet the criteria in NFPA 13 2002 edition, chapter 14.
- c) The working plan submittal shall include manufacturer's installation instructions for any specially listed equipment, including descriptions, applications, and limitations for any sprinklers, devices, piping, or fittings.
- d) Hydraulic calculations shall be prepared and submitted on form sheets that include a summary sheet, detailed work sheets, and a graph sheet.
- e) A graphic representation of the complete hydraulic calculation shall be plotted on semi-exponential graph paper and shall include the following:
 - (1) Water supply curve.
 - (2) Sprinkler system demand.
 - (3) Hose demand (where applicable).
 - (4) In-rack sprinkler demand (where applicable).
- f) The following Water Supply Information shall be included:
 - (1) Static pressure, psi (bars).
 - (2) Residual pressure, psi (bars).
 - (3) Flow, gpm (L/min).
 - (4) Date & time.
 - (5) Who conducted flow test?
 - (6) Other sources of water supply, with pressure or elevation.

- g) In order to have accurate hydraulic calculations, flow test data shall not be greater than two years old. If a flow test needs to be conducted, contact the Providence Water Supply Board at (401) 521-6300.
- h) The available pressure for a sprinkler system and each sprinkler zone shall be at least 10 psi above the minimum pressure required (i.e., sprinkler system supply shall exceed demand by not less than 10 psi).

PROVIDENCE FIRE DEPARTMENT

Certificate of Occupancy Testing and Acceptance Criteria

Following is a list of certificates and documents that are required to be presented to the Providence Fire Department Providence for the acceptance of fire protection and life safety systems. This list is made to be as complete as possible; however, it may not be all-inclusive. The Providence Fire Department reserves the right to request additional information if deemed necessary. In most cases, it will be necessary for a fire department representative to be present during the acceptance testing. This will be determined on a case by case basis unless otherwise noted. *The following information must be submitted directly to the Providence Fire Department before any Certificate of Occupancy will be signed.*

1. Contractor's Material and Test Certificates for Above Ground and Under Ground Piping as required in NFPA 13, 2002 edition.
2. Contractor's Material and Test Certificate for Above Ground and Underground Piping for standpipe systems and pressure reducing valves as required in NFPA 14, 2003 edition.
3. Fire pumps and controllers shall be acceptance tested per NFPA 20, 1999 edition. This standard requires that the acceptance of new fire pumps be witnessed by the Fire Department. This test should only be scheduled after the installing contractor has performed a preliminary acceptance test.
4. Emergency power supply systems that use generators to produce required emergency or standby power shall comply with the acceptance testing requirements of NFPA 110, 2002 edition. The test documentation required in section 7.13.11 shall be provided.
5. Final acceptance testing of the fire alarm system in accordance with RIUFC Chapter 13 and NFPA 72. A pretest report and NFPA 72 record of completion shall be submitted to the Fire Alarm Division of the Fire Prevention Bureau at the final acceptance test.
6. Flame spread documentation for all interior finishes and decorative materials. Items include, but are not limited to carpets, paneling, drapes, curtains, wainscoting, moveable office partitions, etc.
7. Smoke control systems required by the Rhode Island Life Safety Code shall be tested by a special inspector. The engineer of record shall clearly identify the intent of the system, the design method used, the appropriateness of the method used, and the means of inspecting, testing and maintaining the system. The special inspector shall submit an inspection and test report to the authority having jurisdiction and registered design professional in charge.
8. Fire evacuation or Crowd Management plan if required. See RI Uniform Fire Code (NFPA 1).