

SECTION 15300
FIRE PROTECTION

A. GENERAL

1. Design to meet requirements of Factory Mutual, NFPA, state and local codes.
2. Occupied portions of building: "Wet Pipe" system employing automatic sprinklers.
3. Areas subject to freezing temperatures: "Dry Pipe" system employing automatic sprinklers attached to a piping system containing air under pressure.
4. Computer rooms, spaces with rare manuscripts, music, books etc.: Combined "Dry Pipe – Preaction" system.
5. The fire protection contractor shall obtain the approval of FM Global and Fire Protection Services (IUPUI projects) prior to the installation of any fire protection work. The shop drawing submittals shall be routed through IU Engineering Services.
6. The fire protection system shall be designed to provide a penalty-free insurance rating as determined by FM Global.

B. MATERIALS

1. Schedule 40 steel pipe, screwed joints.
2. Schedule 10 steel pipe, roll groove "Victaulic" joints. Threaded joints on schedule 10 pipes are not allowed.
3. Use separate service for fire protection so either potable supply or fire supply may be isolated without interrupting the other.
4. If isolation is underground, use post indicator on valve.
5. Buildings that do not have Fire Alarm System use electric bells. Do not use water gongs.
6. Protect potable water supply by providing backflow preventor.
7. At minimum provide one zone control valve per floor. Locate zone control valves where they are clearly visible and readily accessible to emergency personnel.
8. For dry pipe systems, copper pipe is allowed.

C. Alarms

1. See Electrical Standards for Fire Alarm System requirements.