

*See UM Consultant Procedures and Design Guidelines. All design guidelines posted are applicable. Information below supplements and supersedes information provided in Division 21 of those documents.*

1. Include note for fire suppression work: “CONSTRUCTION NOT RELATED TO FIRE SUPPRESSION SYSTEMS SHALL NOT TOUCH OR BE SUPPORTED BY ANY PART OF THE FIRE SUPPRESSION SYSTEM (INCLUDING SYSTEM SUPPORTS).” This note to be referenced on drawings for all disciplines. Make sure this is discussed in all prebid meetings as applicable.
2. Fire Sprinkler System shall be compliant with NFPA 13 and UM Standards/codes.
  - Quick response sprinkler heads shall be utilized.
  - Shall be an engineered and certified system, compliant with NFPA 13 and University of Missouri codes/standards.
  - Fully concealed sprinklers shall be installed in all spaces with finished ceilings.
  - Schedule 40 black iron pipe only.
  - Galvanized
    - Prohibited in new construction.
    - Discuss with MUHC Health Facilities Managing Engineer if found in existing construction.
    - Permissible in renovations only with permission from MUHC Health Facilities Managing Engineer and only if modifying an existing galvanized system.
  - Dry-pipe systems must utilize nitrogen generator to prevent internal corrosion.
  - All inspection/test valves shall be routed to drains capable of handling the flow. If no drain is available, run to outside building per code. If this

occurs on the MU main campus, approval by MUHC is required.

- Main drain shall be piped to exterior of building. Confirm acceptable location with MUHC.
  - The connector at end of pipe shall be plumbed to accept Monster-type hoses.
  - Confirm acceptable location with MUHC.
- 3. CPVC piping is not allowed for permanent installations. Only allowed for temporary protection during construction.
- 4. Flex heads
  - Not allowed in the hospitals (TH, CCA, MUPC, MOI, PCT, KSMC, CRMC).
    - May be utilized in offsite clinics (MOB's) at the discretion of MUHC Health Facilities Managing Engineer.
    - Stabilizing bracket must be included in the installation.
    - If head is bent past the curvature stated by the manufacturer, it must be replaced prior to system testing at no cost to owner.
    - Installation detail must be included in the construction drawings.
- 5. Malleable fittings are not allowed.
- 6. Pre-Action Systems
  - Pre-action system and controls shall be a UL listed system with components contained within a manufactured cabinet.
  - Must be compatible with the existing Fire Alarm system. Engineer shall confirm during design.
  - Siemens devices shall not be used to activate a pre-action system.

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- Pre-Action systems shall be cross zoned requiring two initiating devices, one from each circuit (zone) to arm the system.
7. SEE [\*MU Consultant Procedures and Design Guidelines\*](#) FOR DESIGN CRITERIA TO BE INCLUDED IN DRAWINGS AND SPECIFICATIONS BY THE ENGINEER OF RECORD EVEN THOUGH IT IS DELEGATED DESIGN.

END OF SECTION