



5 THRD FLOOR TOILET ROOM FIRE SPRINKLER PLAN (ROOM 304)
SCALE: 1/2" = 1'-0"



MATERIAL SPECIFICATIONS:

- 4.1 Pipe:
- A. All pipe used for fire protection sprinkler systems shall comply with NFPA 13, NFPA 24, and FM requirements.
 - B. All aboveground pipe shall be Schedule 40 and shall meet the requirements of the ANSI/ASTM standards listed in NFPA 13 and NFPA 14.
 - C. Schedule 40 pipe may be used for pipe 2 1/2 inches, 3 inches and larger if joined by welding or by rod-grooved pipe and fittings, in accordance with NFPA-13.
- 4.2 Pipe Fittings:
- A. Fittings for Schedule 40 piping 1 inch through 2 inches shall be screwed fittings. Fittings for 2 1/2 inch and larger pipe shall be screwed, flanged, or grooved couplings. All fittings shall be cast iron, ductile iron, malleable iron, or steel and shall comply with ANSI/ASTM standards as listed in NFPA 13.
 - B. Grooved mechanical couplings shall be of ductile iron or malleable iron housing with a synthetic rubber gasket of a central cavity pressure-responsive design and nuts, bolts, locking rings, or lugs to secure rod-grooved pipe and fittings. Gaskets shall be nonseismic.
 - C. Grooved pipe joining or coupling shall be made by the manufacturer's approved process and shall be installed by approved welding fittings shall be required.
 - D. Mechanical sealate seals shall consist of interlocking synthetic rubber links shaped to continuously fill a uniform space between pipe and sleeve connected by nuts and pressure plates that cause rubber sealing elements to expand when tightened, providing a watertight seal.
 - E. Fittings for underground piping shall be ductile iron and shall meet the requirements of ASTM A 395.
 - F. No Victaulic "hooker" fittings or Victaulic Style 921 or 925 fittings shall be used.
- 4.3 Pipe Supports and Hangers:
- A. All types of hangers, attachments, and methods of installation shall be in accordance with NFPA 13 and NFPA 14 and FM requirements. All components of hanger assemblies shall be UL-listed and FM-approved for use on sprinkler systems.
 - B. If used, all C-clamps shall utilize both locknuts and retaining devices furnished by the manufacturer. C-clamp bodies shall not be constructed from bent plates. Only top beam C-clamps shall be used.
 - C. Special hangers and methods of installation shall be certified by a registered professional engineer in accordance with the requirements of NFPA 13.
 - D. Hanger rods shall be threaded on both ends.
- 4.4 Sprinklers:
- A. All sprinklers shall be UL-listed and FM-approved fusible link glass bulb type. Sprinkler orifice size shall not be smaller than 1/2 inch. Orifice size, K-factor, temperature rating, and model identification of installed sprinkler shall be identical to system hydraulic calculation data.
 - B. Reclose pendant recessed quick response sprinklers shall be used on areas with suspended ceilings and concealed piping unless otherwise noted.
 - C. Upright or pendant sprinklers shall be used in all areas with exposed piping unless otherwise noted.

NOTES:

1. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT HEAD LOCATIONS
2. NO ISOLATION VALVES WERE OBSERVED IN THE FIRE SPRINKLER SYSTEM; THEREFORE THE ENTIRE SYSTEM MAY NEED TO BE DRAINED TO PERFORM THE MODIFICATIONS

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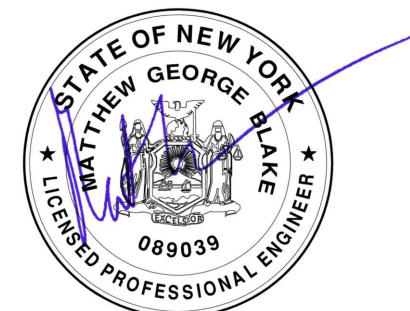
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1	03-19-2021	ISSUED FOR BID
ISSUE NO.	ISSUE DATE	DESCRIPTION



SECOND AND THIRD FLOORS SHOWER AND TOILET ROOMS FIRE SPRINKLER PLANS

PROJECT NO.: 1802-01

DRAWING NO.

FP-200