SECTION 21 12 00 - FIRE-SUPPRESSION STANDPIPES

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

A. Section 21 05 00 - Common Work Results for Fire Suppression: Fire protection piping.
B. Section 21 05 23 - General-Duty Valves for Water-Based Fire-Suppression Piping.

1.02 REFERENCE STANDARDS

B. UL 405 - Fire Department Connection Devices Current Edition; Including All Revisions.

PART 2 PRODUCTS

2.01 FIRE DEPARTMENT CONNECTIONS

A. Type: Free standing made of corrosion resistant metal complying with UL 405.
   1. Sleeve: Brass, 18 inches (460 mm) height.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.
B. Install in accordance with NFPA 14.
C. Connect standpipe system to water source ahead of domestic water connection.
D. Flush entire system of foreign matter.
E. Buried piping and fittings:
   1. Cement-mortar lined, ductile iron pipe conforming to AWWA C-151, Class 200, 21/45 with Tyton or as approved, mechanical joints and fittings conforming to NFPA-24.
   3. Other types of UL/FM reviewed piping including PVC C900 Class 200 may be used as approved by University's Representative and the State Fire Marshal.
   4. Thrust block installation shall be inspected by State Fire Marshal.
F. Above ground piping and fittings:
Fire Suppression Standpipes


2. Fittings for pipe sizes 2-1/2 inch and smaller shall be malleable iron, black, 150 lb. standard or cast iron, 175 lb. WP, screwed ends.

3. Fittings for pipe sizes 3 inch and larger may be as above or weld fittings, ANSI 16.9, Schedule 40, flanged or welded fittings, cast iron, 175 lb. WP.

4. Clamp type UL/FM approved fittings may be used on concealed piping where listed by the State Fire Marshal.

5. Piping installed outdoors shall be galvanized.

G. Alternate piping system to be Victaulic, Grinnel, or equal grooved piping systems.

H. CPVC piping may be used in locations approved by NFPA 13 and the State Fire Marshal.

END OF SECTION 21 12 00