SECTION 21 1200
FIRE-SUPPRESSION STANDPIPES

PART 1 GENERAL
1.01 SECTION INCLUDES
A. Fire hose cabinets.
B. Valves.
C. Fire department connections.
D. Fire extinguishers located in hose cabinets.

1.02 RELATED REQUIREMENTS
A. Section 10 4400 - Fire Protection Specialties.
B. Section 21 0500 - COMMON WORK RESULTS FOR FIRE SUPPRESSION: Fire protection piping.
C. Section 21 0523 - General-Duty Valves for Water-Based Fire-Suppression Piping.
D. Section 21 0553 - Identification for Fire Suppression Piping and Equipment.
E. Section 21 1300 - Fire Suppression Sprinklers.
F. Section 21 3000 - Fire Pumps.
G. Section 22 0553 - Identification for Plumbing Piping and Equipment.

1.03 REFERENCE STANDARDS
B. ITS (DIR) - Directory of Listed Products; current edition.
F. UL 4 - Armored Cable; Current Edition, Including All Revisions.
G. UL 405 - Fire Department Connection Devices; Current Edition; Including All Revisions.

1.04 ADMINISTRATIVE REQUIREMENTS
A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section; require attendance by all affected installers.

1.05 SUBMITTALS
A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
B. Product Data: Provide manufacturer's catalog sheet for equipment indicating rough-in size, finish, and accessories.
C. Shop Drawings: Indicate supports, components, accessories, and sizes.
   1. Submit shop drawings and product data to Owner's insurance underwriter for approval.
   2. Submit proof of approval to Architect.
D. Project Record Documents: Record actual locations of components.
E. Operation Data: Include appropriate manufacturer's data.
F. Maintenance Data: Include servicing requirements and test schedule.
G. Certificates: Provide certificate of compliance from authority having jurisdiction indicating approval of field acceptance tests.

1.06 QUALITY ASSURANCE
A. Perform Work in accordance with NFPA 14. Maintain one copy on site.
B. Installer Qualifications: Company specializing in performing the work of this section with minimum 3 years documented experience and approved by manufacturer.

1.07 DELIVERY, STORAGE, AND HANDLING
A. Deliver and store products in shipping packaging until installation.

PART 2 PRODUCTS

2.01 FIRE HOSE CABINETS
A. Manufacturers:
   2. Substitutions: See Section 01 6000 - Product Requirements.
B. Cabinet:
   1. Style: Recessed mounted.
   2. Door: 12 gage, 0.1046 inch thick steel, flush, glazed with 1/4 inch (6.35 mm) thick wired glass full panel; hinged, positive latch device.
C. Hose Rack: Steel with polished chrome finish; swivel type with pins and water stop.
D. Hose: 1 inch diameter, 50 feet long, of linen hose; mildew and rot-resistant.
E. Nozzle: Chrome plated brass; combination fog, straight stream, and adjustable shut-off.

2.02 VALVES
A. General Duty Valves: Refer to Section 21 0523.
B. Specialty Valves:
   1. Hose Connection Valve:
      a. Angle type; brass finish; 2-1/2 NPS, thread to match fire department hardware, 300 psi working pressure, with threaded cap and chain of same material and finish.
C. Hose Connection Valve Cabinets:
   1. Style: Recessed mounted.
   2. Tub: 16 gage, 0.0598 inch thick steel, prepared for pipe and accessory rough-in.
   3. Door: 12 gage, 0.1046 inch thick steel, flush, glazed with 1/4 inch (6.35 mm) thick wired glass full panel; hinged, positive latch device.

2.03 FIRE DEPARTMENT CONNECTIONS
A. Type: Free standing made of corrosion resistant metal complying with UL 405.
   1. Manufacturers:
      c. Substitutions: See Section 01 6000 - Product Requirements.
   2. Inlets: Two way, 2-1/2 inch swivel fittings, internal threaded. Thread size and inlets according to NFPA 1963 or Authority Having Jurisdiction. Brass caps with gaskets, chains, and lugs.
   5. Sleeve: 18 inches height.
   6. Signage: Raised or engraved lettering 1 inch minimum indicating system type.

2.04 FIRE EXTINGUISHERS
A. General: Comply with NFPA 10; FM (AG), ITS (DIR), and UL (DIR) listed product.
B. Multi-Purpose Dry Chemical Type: Cartridge operated with hose and shut-off nozzle or integral shut-off nozzle.
   1. 10 pound capacity with 4A:60BC rating.
2. 20 pound capacity with 20A:120BC rating.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install in accordance with NFPA 14.

C. Locate and secure cabinets plumb and level. Establish top of cabinet (inside horizontal) surface 66 inches above finished floor.

D. Connect standpipe system to water source ahead of domestic water connection.

E. Flush entire system of foreign matter.

END OF SECTION 21 1200