

## SECTION 213250 – SPRINKLER SYTEMS

### PART 1 - GENERAL

#### 1.1 REFERENCES

- A. NFPA 13R - Installation of Sprinkler Systems in Residential Occupancies Up To and Including Four Stores in Height

#### 1.2 SUBMITTALS

- A. Shop Drawings: Indicate detailed pipe layout, hangers and supports, components and accessories. Indicate system controls.
  - 1. Shop Drawings shall be fully coordinated with other disciplines for proper clearances.
- B. Product Data: Provide data on sprinkler heads, valves, and specialties, including manufacturer's catalogue information. Submit performance ratings rough-in details, weights, support requirements, and piping connections.
- C. Submit shop drawings and product data to Authority Having Jurisdiction (AHJ) for approval. Submit proof of approval to Architect/Engineer.
- D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements.

#### 1.3 PROJECT RECORD DOCUMENTS

- A. Record actual locations of sprinkler heads and deviations of piping from drawings. Indicate drain and test locations.

#### 1.4 OPERATION AND MAINTENANCE DATA

- A. Maintenance Data: Include components of system, servicing requirements, Record Drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

#### 1.5 QUALIFICATIONS

- A. Contractor shall be a licensed Fire Protection Contractor and regularly engaged in the installations of fire protection systems and have at least five (5) years experience in installing similar systems.

## 1.6 SCOPE OF WORK

- A. Work includes all labor, materials, equipment and services necessary to complete the fire protection systems as shown on the Drawings and herein specified. Additional piping may be required in some congested ceiling areas. Contractor shall obtain all permits and pay all fees incurred thereto.

## 1.7 QUALITY ASSURANCE

- A. Perform Work in accordance with NFPA 13R.
- B. Equipment and Components: Bear UL and FM label or marking.

## 1.8 QUALIFICATIONS

- A. Installer: Company specializing in performing work of this Section with minimum five years experience.

## 1.9 DELIVERY, STORAGE, AND HANDLING

- A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.

## 1.10 EXTRA MATERIALS

- A. Provide a minimum of (3) three of each type of sprinkler head for each building to Owner.
- B. Provide suitable wrenches for each head type.
- C. Provide metal storage cabinet for each building at riser unless other location as designated by Owner.

## PART 2 - PRODUCTS

### 2.1 SPRINKLER HEADS

- A. Subject to compliance with requirements, manufacturers offering similar products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Gem Sprinkler
  - 2. Star Sprinkler Corporation.
  - 3. Viking Sprinkler Co.
  - 4. Reliable Sprinkler Co.
  - 5. Central Sprinkler Co.

- B. Refer to plans for model numbers and descriptions.

## 2.2 PIPING SPECIALTIES

- A. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amps at 125 volt AC and 2.5 amps at 24 volt DC.
- B. Supervisory Switches: As manufactured by Viking, Model 07757.

## PART 3 - EXECUTION

### 3.1 PREPARATION

- A. Coordinate work of this Section with other affected work.

### 3.2 INSTALLATION

- A. Install equipment in accordance with manufacturer's instructions.
- B. Place pipe runs to minimize obstruction to other work.
- C. Place piping in concealed spaces above finished ceilings.
- D. Apply masking tape or paper cover to ensure concealed sprinkler head cover plates do not receive field paint finish.
- E. Flush entire piping system of foreign matter.
- F. Hydrostatically test entire system. Minimum test pressure: 50 PSI above the maximum pressure but not less than 200 PSI for a period of (2) two hours.
- G. Require test be witnessed by Fire Marshal and the Owner's Representative.

END OF SECTION 213250