

## **1. PART 1 – GENERAL**

### **1.1 General**

- .1 All fire protection work shall be executed by a specialized contractor well known in that field, and in accordance with ANSI/NFPA 13, Installation of Sprinkler Systems, and FC 403, Sprinkler Systems.

### **1.2 Shop Drawings and Product Data**

- .1 Submit shop drawings, product data, working plans in accordance with design requirements.

### **1.3 Engineering Design Criteria**

- .1 Design system in accordance with ANSI/NFPA 13, using following parameters:
  - .1 Hazard:
    - .1 Ordinary Hazard (group 2) and maximum of 3.3 m spacing as indicated on plans.
- .2 Pipes size and layout:
  - .1 Sizing design according to hydraulic calculations.
  - .2 Sprinkler head layout: to ANSI/NFPA 13.
  - .3 Main pipes of DN-2 ½ or larger have to be maintained.
  - .4 Residual pressure: to obtain upon request.

## **2. PART 2 – PRODUCTS**

### **2.1 Pipe, Fittings and Valves**

- .1 Pipe:
  - .1 Ferrous: to ANSI/NFPA 13.
- .2 Fittings and joints to ANSI-NFPA 13:
  - .1 Ferrous: screwed, welded, flanged or roll grooved.
- .3 Pipe hangers:
  - .1 ULC listed for fire protection services.

### **2.2 Sprinkler Heads**

- .1 General: to ANSI/NFPA 13 and ULC listed for fire services, semi-recessed, chrome finished.

### **3. PART 3 – EXECUTION**

- 3.1 Install, inspect and test to acceptance in accordance with ANSI/NFPA 13.
- 3.2 Supply and install all new pipes and sprinklers heads and all other work as indicated on drawings for a complete and operational installation.
- 3.3 Relocate existing sprinkler heads from their actual location to the new layout location, as shown on drawing, except when otherwise indicated on the drawing or in another part of these specifications.
- 3.4 Contractor may have to remove existing heads and existing piping in order to clear the space for lighting fixtures, ductwork or to comply with new ceiling height or new ceiling installation. Priority has to be given to HVAC equipment for space usage in false ceiling. Contractor will relocate all branches and 2"ø and less pipes in order to comply with the new HVAC layout with no extra fees to customer.
- 3.5 Provide drain plugs at all lower pipe portions to allow drainage of the floor sprinkler network.