FIRE PROTECTION DESIGN CRITERIA

1. The fire protection system shall comply with the appropriate NFPA standards and the State of Florida Fire Prevention Code.
2. Final system acceptance and approval shall be conducted by the local fire marshal and the architect.
3. Construction of the fire protection system shall be performed in accordance with the plans and specifications.

FIRE PROTECTION GENERAL NOTES

- The fire protection system shall be designed to meet the requirements of the Florida Building Code and the State of Florida Fire Prevention Code.
- All materials used in the fire protection system shall be listed and approved by the appropriate testing agencies.
- The fire protection system shall be installed in accordance with the plans and specifications.
- The fire protection system shall be tested and approved by the local fire marshal and the architect.
- The fire protection system shall be maintained in accordance with the manufacturer's instructions.
- The fire protection system shall be inspected periodically by a qualified inspector.
- The fire protection system shall be tested periodically by a qualified tester.

FIRE PROTECTION DESIGN CRITERIA

- The fire protection system shall be designed in accordance with the appropriate NFPA standards and the State of Florida Fire Prevention Code.
- The fire protection system shall be designed to meet the requirements of the State of Florida Fire Prevention Code.
- The fire protection system shall be designed to meet the requirements of the Florida Building Code and the State of Florida Fire Prevention Code.
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FIRE PROTECTION SPECIFICATIONS

PART 1 - GENERAL

1.000 - GENERAL

2.000 - PRODUCT

3.000 - PRICE

4.000 - MANUFACTURER

5.000 - INSTALLATION

6.000 - INSPECTION AND TESTING

7.000 - SELECTION

8.000 - PIPING

9.000 - VALVES

10.000 - HOSES

11.000 - FITTINGS

12.000 - FIRE HOSES AND HOSE REELS

13.000 - Sprinkler Head Protection

14.000 - ACCESSORIES

15.000 - WATER SUPPLY

16.000 - MATERIALS

17.000 - INFORMATION

18.000 - EQUIPMENT.

2.03 PIPE AND FITTINGS

2.02 SPRINKLERS

1.01 SUMMARY

FIRE PROTECTION SPECIFICATIONS

A. GENERAL: PROVIDE THE FIRE PROTECTION SYSTEMS INDICATED ON THE DRAWINGS AND WITHIN THIS SPECIFICATION SECTION.

B. GROOVED SPRINKLERS: 1/2" [DN25], 3/4" [DN20], AND 1" [DN25] VICTAULIC GROOVED SPRINKLERS MAY BE USED IN LIEU OF THREADED SPRINKLERS TO PROVIDE A GROOVED MECHANICAL CONNECTION TO IGS™

C. CORROSIVE ENVIRONMENTS: SPRINKLER FRAME AND THREADS SHALL BE COATED WITH A UL LISTED AND FM APPROVED ANIT-CORROSION COATING WITH A “SILVER / CHROME-LIKE” COLORING.

Basis of Design

E. FLEXIBLE SPRINKLER FITTINGS

1. IN LIEU OF THREADED PIPING WHICH REDUCES SCHEDULE 40 PIPE WALL THICKNESS, THE IGS™ 1" GROOVED SYSTEM MAY BE USED ALLOWING FOR A MECHANICAL GROOVED CONNECTION TO BE USED ON VICTAULIC IGS™ SYSTEM

2. SHALL BE UL LISTED AND FM APPROVED, CAST OF DUCTILE IRON CONFORMING TO ASTM A-536, GRADE 65-45-12.

3. SHALL CONSIST OF A TRUE 1" ID CORRUGATED BRAIDED TYPE 304/316 STAINLESS STEEL HOSE, UL LISTED WITH A 2" MINIMUM BEND RADIUS AND FM APPROVED WITH A 7" MINIMUM BEND RADIUS.

4. GRID CEILINGS - BRACKETS SHALL ATTACH TO THE CEILING GRID WITH A ONE-PIECE DESIGN THAT CAN BE INSTALLED PRIOR TO CEILING TILES AND ALLOWS FOR THE FLEXIBLE SPRINKLER FITTING TO BE SUPPORTED AND RETAINED FROM FALLING OFF THE CEILING GRID.

D. IGS™ (INNOVATIVE GROOVED SYSTEM) FOR 1" [DN25] PIPE

A.) UL - 2443

B.) FM - 1637

DESIGN VICTAULIC VICFLEX AH2 AND AH2CC HOSE.

MANUFACTURER.

1.02 MANUFACTURER

2.000 - PRICE

1. ACCEPTABLE STANDARDS

2. ACCEPTABLE MANUFACTURERS: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN AND PHD.

FSD - Fire System Design:

1. ALL PIPES PASSING THROUGH RATED FLOORS OR WALLS SHALL BE SLEEVED AND FIRESTOPPED TO AN EQUIVALENT RATING OF THE FLOOR OR WALL ASSEMBLY.

2. ACCEPTABLE METAL HOSES: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN AND PHD.


1.03 INSTALLATION

1.03.1 - PIPING

A. FIRE DEPARTMENT CONNECTION:

B. SPRINKLER HEAD LOCATION: INSTALL UPRIGHT PENDENT SPRINKLERS IN OVERHEAD STRUCTURE (NO CEILING) IN ACCORDANCE WITH NFPA13 AND SPRINKLER LISTING.

C. SUBMIT HYDRAULIC CALCULATIONS PROVING THE VIABILITY OF THE MOST HYDRAULICALLY REMOTE AREA OF THE PROJECT. INDICATE HYDRAULIC REFERENCE POINTS AND SUBMIT COMPUTER ANALYZED NODAL CALCULATIONS IN BOTH TABULAR AND GRAPHICAL FORMATS. HYDRAULIC IMBALANCE SHALL NOT EXCEED 0.01 GPM AT ANY NODE, AND WATER VELOCITY SHALL NOT EXCEED 20 FEET PER SECOND.

D. IGS™ (INNOVATIVE GROOVED SYSTEM) FOR 1" [DN25] PIPE

A.) UL - 2443

B.) FM - 1637

DESIGN VICTAULIC VICFLEX AH2 AND AH2CC HOSE.

MANUFACTURER.

1.02 MANUFACTURER

2.000 - PRICE

1. ACCEPTABLE STANDARDS

2. ACCEPTABLE MANUFACTURERS: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN AND PHD.