FIRE PROTECTION SYSTEMS

SYSTEM DESIGN

1. SPRINKLER SYSTEM LOCATION
   - Review sprinkler location with all other systems. Engage sprinkler and loct stamping on all new piping in accordance with NFPA 13.
   - Use full-body union outlets of pipe work where feasible. Allow all piping for computer drainage. Install components per data stamped per Section 14.
   - All pipe sizes shown at test. The tee shall be the size of the water supply main working part of the system. Comply with manufacturer's installation instructions.

2. SPRINKLER SYSTEMS
   - Provide Temporary protective coatings on iron and steel valves.
   - Provide metal storage cabinets, wrenches for each sprinkler type, and extra sprinklers per NFPA delivery, storage, and handling.

3. SPRINKLER SYSTEM DESCRIPTION
   - Submit detailed working drawings and obtain review of them in the following order:
     - Sprinkler design drawings submitted by the contractor shall be designed, certified, and shall include the list of ejection and the professional seal. The system shall be sized in accordance with NFPA 13.
     - Submit detailed piping and layout other and call calculations and formulas as described in NFPA 13.
   - Summarize zoning drawings and obtain review of them in the following order:
     - Submit drawing with copy of NFPA for the inspection testing and maintenance of sprinkler systems per the NFPA standard.

4. SYSTEM REQUIRED
   - System shall comply with all applicable codes.
   - System shall be designed and constructed in accordance with the following codes and regulations:
     - UL/CAFM, ASME, and NFPA.
   - All tests required. Base all pipe sizing and hydraulic calculations on flow test data no older than 12 months.
   - Valve body. Pressure rating shall match specified pipe system pressure rating. Remanufactured valves shall be inspected by the manufacturer.

5. SYSTEM INSTALLATION
   - Install System as designed.
   - Hydraulically calculate wet pipe sprinkler system for the entire area of work identified on drawings. Provide all required equipment and accessories.
   - System shall comply with manufacturer's installation instructions.
   - System shall be designed and constructed in accordance with the following codes and regulations:
     - UL/CAFM, ASME, and NFPA.
   - All tests required. Base all pipe sizing and hydraulic calculations on flow test data no older than 12 months.
   - Valve body. Pressure rating shall match specified pipe system pressure rating. Remanufactured valves shall be inspected by the manufacturer.

6. OPERATING DATA
   - Provide temporary protective coatings on iron and steel valves.
   - Provide all required equipment and accessories.
   - Provide all required equipment and accessories.

7. JOB CONDITIONS
   - All material, equipment, and installation shall be approved by the Authorities Having Jurisdiction.
   - All work performed shall be in accordance with the plans and specifications submitted by the contractor.
   - Any changes made by the contractor shall be approved in writing by the Engineer.

8. DISCRETIONS
   - The entire installation shall comply with all applicable codes.
   - The contractor shall be responsible for final sizing from hydraulic calculations.
   - The contractor shall be responsible for final sizing from hydraulic calculations.

9. RESPONSIBLE FOR FINAL SIZING FROM HYDRAULIC CALCULATIONS
   - The contractor shall be responsible for final sizing from hydraulic calculations.
FIRE DEPARTMENT CONNECTION
FIRE PUMP TEST CONNECTION
BASEMENT FD TEST PORT
TRASH CHUTE/COMPACTOR
BELOW DUCT
6" WATER FROM CITY
2" CW TO POTABLE SYSTEM
EXISTING FLOW SWITCH IN VERTICAL
6" FIRE SUPPRESSION UP TO FIRST FLOOR

DESIGN DRAWING NOTES:
1. FIRE PROTECTION PIPE ROUTING IS SHOWN TO INDICATE DESIGN INTENT. FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED WORKING DRAWINGS, INCLUDING BUT NOT LIMITED TO: EXACT NUMBER AND LOCATION OF SPRINKLERS, PIPE SIZING AND ROUTING BASED ON HYDRAULIC CALCULATIONS, HANGER LOCATIONS, SEISMIC BRACING CALCULATIONS, ETC. REFER TO NFPA 13 FOR COMPLETE LIST OF REQUIREMENTS. SUBMIT TO A/E AND AHJ FOR APPROVAL.
2. SEE GENERAL NOTES, SPECIFICATIONS, AND ADDITIONAL PROJECT INFORMATION ON GENERAL DRAWINGS.
3. NEW WORK SHOWN IN RED.
4. DISCONNECT EXISTING BASEMENT PIPING FROM FIRE SUPPRESSION MAIN AND CAP. TIE EXISTING SPRINKLERS AND PIPING INTO NEW AS SHOWN.
5. INSTALL NEW SPRINKLER HEADS BELOW DUCTWORK (TYP ALL). SHADED AREAS SHALL BE REVIEWED FOR COMPLIANCE WITH CURRENT FIRE SUPPRESSION CODES BY CONTRACTOR.
6. ELEVATIONS ON DRAWINGS ARE TO BOTTOM OF FIXTURE OR AS OTHERWISE NOTED.
7. PAINT ALL EXPOSED PIPING TO MATCH BACKGROUND OR AS DIRECTED BY OWNER.
8. ACTIVATION OF FIRE SUPPRESSION SYSTEM SHALL ALSO ACTIVATE FIRE ALARM SYSTEM/STROBE AND ANNUNCIATOR SYSTEM.
9. CONTRACTOR TO PROVIDE FIRE WATCH ANY TIME THE FIRESUPPRESSION SYSTEM IS DEACTIVATED.
10. COORDINATE WORK WITH OWNER, ENGINEER, OTHER TRADES, AND FIRE ALARM COMPANY.
11. NEW FIRE SUPPRESSION PIPING SHALL BE ROUTED TO AVOID BLOCKING EXISTING ELECTRICAL JUNCTION BOXES.

KEYNOTES:
1. DEMOLISH EXISTING FLOW SWITCH FOR BUILDING. COORDINATE DEMOLITION OF FLOW SWITCH WITH PROJECT SCHEDULE AND REQUIREMENTS FOR MAINTAINING BUILDING LIFE SAFETY. INSTALL NEW FLOW SWITCH FOR BASEMENT.
2. TIE-INTO EXISTING 4" PIPING. INSTALL VALVES PER DETAIL ON DRAWING F202. NO NEW INSPECTOR TEST AND DRAIN VALVE IS REQUIRED (EXISTING ON WEST EXTERIOR WALL). FLOW SWITCHS INSTALLED UNDER THIS FIRE SUPPRESSION CONTRACT. WIRED TO PANEL BY FIRE ALARM CONTRACTOR.
3. INSTALL NEW PIPING AS SHOWN
4. DISCONNECT EXISTING BASEMENT PIPING FROM FIRE SUPPRESSION MAIN AND CAP. TIE EXISTING SPRINKLERS AND PIPING INTO NEW AS SHOWN.
5. INSTALL NEW SPRINKLER HEADS BELOW DUCTWORK (TYP ALL)

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BASEMENT PLAN - FIRE SUPPRESSION DEMOLITION AND NEW WORK

REFER TO SCALE IN INCHES

BASEMENT PUMPED POINT
FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION PIPE ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE 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PROTECTION Pipe ROUTING SHOWN TO INDICATE DESIGN INTENT, FIRE PROTECTION Pipe ROUTING SHOWN TO INDICATE DESI
1. **GENERAL**
   - Owners' work to be reviewed for compliance with current fire suppression system standards. Fire sprinkler heads should be installed on ceilings and components as shown. Fire sprinkler heads are subject to fire suppression system and are installed in accordance with NFPA standards. All fire alarm system components are installed in accordance with NFPA standards.
   - Fire protection piping systems, including standpipes, hose connections, and water supply piping, are installed in accordance with NFPA standards.
   - Fire protection piping systems, including standpipes, hose connections, and water supply piping, are installed in accordance with NFPA standards.

2. **REFERENCES**
   - All图纸应参照当前消防喷淋系统标准。消防喷淋头应安装在天花板上以及所有相关组件。火灾自动报警系统组件应根据NFPA标准安装。
   - 消防保护管道系统，包括立管、消防栓接头和供水管道，应根据NFPA标准安装。

3. **NOTES**
   - All work will be coordinated with the fire protection contractor.
   - Owner to coordinate with engineer and contractor for the installation of fire alarm and sprinkler systems.

4. **DRAWING SHEET INFORMATION**
   - Third floor plan - fire suppression new work
   - Scale: 1/8" = 1'-0" (24"x36" drawings)
   - Drawing notes:
     1. **R**
     2. **A**
     3. **T**
     4. **H**
   -參考尺標: 1/8" = 1'-0" (24"x36" 描圖)
   - 晃圖注釋:
     1. **R**
     2. **A**
     3. **T**
     4. **H**

5. **COORDINATION WITH OTHER TRADES, IS THE CONTRACTORS RESPONSIBILITY.**
   - 火灾保护系统管道系统安装在天花板上以及所有相关组件。火灾自动报警系统组件应根据NFPA标准安装。
   - 消防保护管道系统，包括立管、消防栓接头和供水管道，应根据NFPA标准安装。

6. **STAIR APARTMENT**
   - All floors are indicated on the drawing.
   - Fire protection piping systems are shown in red.

7. **NEW TAP AT 4" STANDPIPE AND COMPONENTS AS SHOWN.**
   - 安装新的喷淋器头及各组件如图所示。

8. **INSTALL NEW FIRE SUPPRESSION PIPING DOWN HALLWAY AS SHOWN.**
   - 安装新的消防喷淋管道沿走廊铺设。

9. **DISCONNECT SPRINKLERS AND PIPING FROM EXISTING RISERS BETWEEN FLOORS AS SHOWN.**
   - 断开喷淋器及管道与现有立管之间的连接。

10. **INSTALL NEW DRAIN STANDPIPE AS SHOWN. REFER TO SCHEMATIC ON F201 FOR FLOORS.**
    - 安装新的排水立管。

11. **GENERAL DRAWINGS.**
    - 一般图纸。

12. **PROVIDE EXACT SCALE OR LOCATIONS.**
    - 提供精确的规模或位置。

13. **ENTRY EXISTING SYSTEM AND SINCE TYPICAL APARTMENTS AS SHOWN ON ALL SHEETS.**
    - 将现有系统与典型公寓在所有图纸上标示。

14. **FABRICATE OR CONSTRUCT FROM ANY DOCUMENTS OR LATER REVISIONS ONLY.**
    - 仅从任何文件或后期修订中制作或构建。

15. **DISCLAIMER**
    - 说明：
      - 任何其他项目未经书面批准和参与。
      - 任何其他项目未经书面批准和参与。

16. **DRAWING NOTES:**
    - 图纸注释：
      1. **R**
      2. **A**
      3. **T**
      4. **H**

17. **REFERENCE SCALE IN INCHES**
    - 参考尺标：1/8" = 1'-0" (24"x36" 描图)

18. **SECOND FLOOR PLAN - FIRE SUPPRESSION NEW WORK**
    - 第二层平面图 - 消防喷淋新工作

19. **SHEET NUMBER:**
    - 图纸编号：

20. **ISSUED FOR REVIEW, BIDS, OR PERMITS.**
    - 发布供审查、投标或许可证使用。

21. **ISSUED FOR BIDS ONLY**
    - 唯供投标使用。

22. **90% REVIEW**
    - 90%审查。

23. **75% REVIEW**
    - 75%审查。

24. **Date:**
    - 日期：

25. **FOR BIDS ONLY**
    - 唯供投标使用。
11. New fire suppression piping shall be routed to avoid blocking existing systems.

12. Antifreeze fire protection system.

9. Install new automatic air vent on top of standpipe.

8. Paint all exposed piping to match background or as directed by owner.

7. New typical apartment refer to F103 for typical piping and sprinkler configuration.

6. New hallway main piping as shown.

5. Install new tap at 4" standpipe and components as shown. Flow switches installed under this fire suppression contract. Wired to panel by fire alarm contractor.

4. All new penetrations and sleeves by fire suppression contractor. Fire alarm contractor to coordinate with fire suppression contractor.

3. Provide exact scale or locations. Proper installation of all systems, after coordination with other trades, is the contractor's responsibility. Contractor is responsible for all architectural repairs associated with this project.

2. New work shown in red.

1. Labels to be reviewed for compliance with current fire suppression codes. Integral drain fitting for fire suppression system deposits, dry and deluge sprinkler heads indicated on drawings.

1/8" = 1'-0" (24"x36" drawings)

FOR BIDS ONLY
ATTIC FLOOR PLAN - FIRE SUPPRESSION NEW WORK

**Drawing Notes:**
1. Fire Protection/pipe routing is shown to indicate design intent. Pipe routing may not be used as the definitive location for pipe runs. Final pipe runs and connections should be determined in consultation with the fire protection contractor.
2. Review original notes, specifications, and additional project information on related drawings.
3. This drawing is to be used by the general contractor for bidding purposes only; the fire protection contractor shall provide specific details necessary for the proper installation of the fire protection system as shown.
4. The fire protection contractor shall provide a detailed working drawing indicating the exact number, location, size, and routing of all fire protection piping and components as shown.
5. Drawings are diagrammatical in nature and do not provide scale or dimensions. Refer to specifications for detailed information.
6. Elevations on drawings are to bottom of fixture or as otherwise noted.
7. Paint all exposed piping to match background or as directed by owner.
8. Contractor is responsible for all architectural repairs associated with this project.
9. Activation of the fire suppression system shall also activate fire alarm, security, and other systems as determined by the fire alarm company.
10. Coordinate work with owners, engineers, other trades, and fire alarm company.
11. New fire suppression piping shall be routed to avoid blocking existing electrical, mechanical, and other systems.

**Key Notations:**
1. Install new fire suppression system in attic as shown.
2. New work is shown in red. Remove existing piping in white. The fire protection system is shown in blue.
3. Coordinate work with owner, engineer, other trades, and fire alarm company.

**References:**
- NFPA 13 for complete list of requirements.
- See general notes, specifications, and additional project information on related drawings.

**Disclaimer:**
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FIRE SPRINKLER USAGE SCHEDULE

1. REFER TO FLOOR PLANS.
2. FIRE SPRINKLER SYSTEMS ARE INSTALLED IN EACH OF FOUR WALLS. SEE FLOOR PLANS FOR LOCATION.
3. SEE NOTE 6 FOR ALARM SYSTEM.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, AND NFPA 13 REQUIREMENTS.
5. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
6. REFER TO NOTE 6 FOR ALARM SYSTEM.

FIRE PROTECTION MATERIAL LIST

1. REFER TO FLOOR PLANS.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
4. CONTRACTOR TO VERIFY SPRINKLER REQUIREMENTS BASED ON ACTUAL INSTALLATION, USAGE, AND NFPA 13 REQUIREMENTS.
5. TAG NAME IS PRIMARILY FOR IDENTIFYING SPRINKLERS IN SUBMITTALS. IT MAY OR MAY NOT BE FOUND ELSEWHERE ON THE DRAWINGS. CONTRACTOR TO SUBMIT ALL SPRINKLER TYPES TO BE USED.
6. AREAS ARE GENERAL IN NATURE. CONTRACTOR TO MATCH UNSCHEDULED AREAS TO SIMILAR SPACES.
7. CONTRACTOR TO NOTIFY ENGINEER IF SUPPRESSION SYSTEM PRESSURE (STATIC AND PUMP CHURN) IS ABOVE 175 PSI.
8. CONTRACTOR SHALL BE AWARE TEMPERATURE WEIGHT LOSS REQUIREMENTS TO BE INFORMATIVE OR HEAT SOURCE. REFER TO NFPA 13 REQUIREMENTS.

COMBINATION STANDPIPE/SPRINKLER SYSTEM

1. REFER TO FLOOR PLANS.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO NOTE 6 FOR ALARM SYSTEM.