

three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 three quarters inch = one foot  
 one half inch = one foot  
 three eighths inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot  
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FIRE PROTECTION SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	NEW SPRINKLER PIPE
	EXISTING SPRINKLER PIPE
	REMOVED SPRINKLER PIPE
	PIPE CONTINUATION
	RISER
	FLUSHING CONNECTION
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	ANTIFREEZE LOOP
	GATE VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	FLOOR CONTROL ASSEMBLY
	HOSE VALVE
	SPRINKLER TAMPER SWITCH
	SPRINKLER WATER FLOW SWITCH
	PRESSURE GAUGE
	CONCEALED PENDENT SPRINKLER, 5.6 K-FACTOR - SUBSCRIPT "R" DENOTES RESIDENTIAL SPRINKLER, 4.3 K-FACTOR
	RECESSED SPRINKLER, 5.6 K-FACTOR
	UPRIGHT SPRINKLER, 5.6 K-FACTOR
	UPRIGHT SPRINKLER, NIPPLED UP, 5.6 K-FACTOR
	HORIZONTAL SIDEWALL SPRINKLER, 5.6 K-FACTOR - SUBSCRIPT "R" DENOTES RESIDENTIAL SPRINKLER, 4.3 K-FACTOR - SUBSCRIPT "SS" DENOTES SPRINKLER ABOVE SUSPENDED CEILING, 5.6 K-FACTOR
	HAZARD CLASS (OH1, LH, ETC.)

DESIGN CRITERIA	
CODES:	INTERNATIONAL FIRE CODE-2012 EDITION
	INTERNATIONAL BUILDING CODE-2012 EDITION
	NFPA 13-2002 EDITION
	NFPA 101-2012 EDITION

**GENERAL NOTES:**

GENERAL

1. THE SCOPE OF WORK FOR THIS PROJECT CAN BE SUMMARIZED AS FOLLOWS:

a. MODIFICATION OF THE EXISTING FIRE SPRINKLER SYSTEM IN AREAS 1E AND 1N TO PROVIDE COMPLETE PROTECTION THROUGHOUT THE RENOVATED PORTIONS OF THE BUILDING. THE SPRINKLER SYSTEM WORK INCLUDES BUT IS NOT LIMITED TO PIPING, FITTINGS, SPRINKLERS, VALVES, SUPERVISORY DEVICES, HANGERS, AND ALL OTHER MATERIALS NECESSARY FOR A COMPLETE INSTALLATION SATISFYING THE DRAWINGS AND SPECIFICATIONS.

2. THE EXISTING FIRE SPRINKLER SYSTEM SHALL BE MAINTAINED IN OPERATIONAL CONDITION AT ALL TIMES. CONTRACTOR SHALL ONLY MODIFY THE EXISTING SYSTEM AS NECESSARY TO COMPLY WITH THE APPLICABLE CODES AND THE DESIGN DOCUMENTS.

3. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE. THE DRAWINGS DEMONSTRATE THE CONFIGURATION OF THE MAJOR SYSTEM COMPONENTS. ALL PIPING SHOWN ON THE DRAWINGS SHOWS THE INTENT OF PROTECTION ONLY. CONTRACTOR IS RESPONSIBLE FOR ROUTING, LOCATION, AND SIZING OF PIPES SUBJECT TO APPROVAL OF THE OWNER.

4. THE DRAWINGS ILLUSTRATE THE GENERAL CHARACTER AND SCOPE OF THE PROJECT. ALL NECESSARY COMPONENTS MAY NOT BE INDICATED.

5. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL FIRE PROTECTION SYSTEM EQUIPMENT, DEVICES AND APPURTENANCES WITH OTHER TRADES. RESOLVE ALL CONFLICTS TO THE SATISFACTION OF THE OWNER. COMPLY WITH ALL CLEARANCE REQUIREMENTS OF NFPA 13, FOR LOCATION OF SPRINKLERS RELATIVE TO OBSTRUCTIONS.

6. PROVIDE ALL PIPING, FITTING, AND LABOR REQUIRED TO OFFSET SYSTEM PIPING TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCE, EVEN THOUGH NOT INDICATED ON THE DRAWINGS.

7. RUN PIPING AS CLOSE AS POSSIBLE TO BEAMS, STRUCTURAL MEMBERS, WALLS, AND SLABS, AND SQUARE TO BUILDING CONSTRUCTION.

8. DO NOT SCALE THE DRAWINGS. ALL INFORMATION SHOWN ON THE DRAWINGS IS CONSIDERED TO BE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO THE EXECUTION (FABRICATION AND INSTALLATION) OF THIS CONTRACT.

9. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN THE BUILDING CONDITIONS AND THE DRAWINGS THAT WOULD PROHIBIT EXECUTION OF THE DESIGN INTENT. DO NOT PROCEED WITH WORK UNTIL OWNER ISSUES CLARIFICATION OF THE DISCREPANCY.

8. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS (INCLUDING OUTAGE, HOT WORK, CONFINED SPACE) AND FEES REQUIRED TO RECEIVE APPROVAL OF THE WORK IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS FROM ALL AUTHORITIES HAVING JURISDICTION.

9. DO NOT UTILIZE DUCTWORK, PIPING, MECHANICAL EQUIPMENT OR CEILINGS AS LADDERS, SCAFFOLDING OR WORK PLATFORMS.

STRUCTURAL

1. DO NOT CUT, DRILL OR CORE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM OWNER.

2. PROVIDE SLEEVES FOR ALL PENETRATIONS THROUGH FIRE RESISTANT RATED CONSTRUCTION. EXTEND SLEEVES THE FULL THICKNESS OF THE WALL, AND SEAL WITH A UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEM OF EQUAL OR GREATER FIRE RESISTANCE.

3. PATCH, REPAIR AND PAINT WITH NEW MATERIALS ALL DAMAGE TO WALLS, CEILINGS, AND STRUCTURAL MEMBERS DUE TO THE PENETRATIONS, REMOVALS, INSTALLATIONS, OR OTHER ACTIONS OF THE CONTRACTOR, WHETHER SPECIFICALLY NOTED ON THE DRAWINGS OR NOT.

WATER SUPPLY

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING A MUNICIPAL WATERFLOW TEST PRIOR TO THE COMMENCEMENT OF THE DESIGN AND INSTALLATION. THE MUNICIPAL WATER FLOW TEST SHALL BE PERFORMED DURING PEAK USAGE PERIODS AND SHALL DETERMINE THE WATER SUPPLY DURING PERIODS OF PEAK USAGE FOR THE SURROUNDING AREA.

2. THE EXISTING FIRE PUMP WITHIN THE BUILDING HAS DISCHARGE CHARACTERISTICS AS FOLLOWS:

- A. TEST DATE: MARCH 6, 2012
- B. CHURN PRESSURE: 179 PSI
- C. DISCHARGE PRESSURE OF 164 PSI WHILE FLOWING 1284 GPM
- D. DISCHARGE PRESSURE OF 148 PSI WHILE FLOWING 1915 GPM

**GENERAL NOTES (CONTINUED):**

STANDPIPE SYSTEM

1. EXISTING STANDPIPE SYSTEM SHALL BE MAINTAINED IN OPERABLE CONDITION AND SHALL NOT BE MODIFIED. EXISTING HOSE CABINET AND HOSE VALVE SHALL REMAIN AS EXISTING.

SPRINKLER SYSTEM

1. DESIGN AND INSTALL COMPLETE SPRINKLER SYSTEM TO MEET THE REQUIREMENTS OF NFPA 13 - 2002 EDITION, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS" AND THESE DRAWINGS AND THE CONTRACT SPECIFICATIONS.

2. THIS BUILDING CONTAINS AN I-2 OCCUPANCY USE GROUP WITH DIFFERENT OCCUPANCY HAZARD CLASSIFICATIONS. DESIGN THE AUTOMATIC FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS FOR THE OCCUPANCY HAZARD CLASSIFICATIONS IDENTIFIED PER NFPA 13 AND ON THE FLOOR PLANS. UNLESS NOTED SPECIFICALLY ON THE DRAWINGS, ASSUME A HAZARD CLASSIFICATION OF LIGHT HAZARD.

3. PERFORM HYDRAULIC CALCULATIONS COMPLETED BACK TO THE CONNECTION TO THE FIRE PUMP. BASE HYDRAULIC DESIGN ON THE HAZARD CLASSIFICATION OF THE REMOTE AREA.

4. ALL SPRINKLERS SHALL MEET THE REQUIREMENTS OF THE SPECIFICATION FOR THIS PROJECT.

5. SPRINKLER TEMPERATURE RATINGS SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13.

6. PROVIDE GUARDS FOR ALL SPRINKLERS THAT MAY BE SUBJECT TO DAMAGE.

7. SPRINKLER SYSTEM PIPING SHALL BE AS INDICATED IN THE SPECIFICATIONS. PIPING SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE IN ACCORDANCE WITH NFPA 13. HANGER SPACING SHALL COMPLY WITH NFPA 13, EXCEPT PROVIDE HANGERS ON ARM-OVERS THAT EXCEED 12 INCHES.

8. INSTALL SPRINKLER PIPING AROUND UTILITIES IN A MANNER THAT PROVIDES ADEQUATE CLEARANCE TO FACILITATE SERVICING AND REMOVAL OF THE UTILITY. DO NOT LOCATE PIPE OR FITTINGS ABOVE LIGHT FIXTURES, OR IN A MANNER IN WHICH WATER COULD DRIP INTO THE FIXTURE DUE TO LEAKS OR REPAIRS.

9. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL FLOW SWITCHES AND TAMPER SWITCHES. FIRE ALARM CONTRACTOR SHALL TERMINATE FIRE ALARM CIRCUITS TO TAMPER AND FLOW SWITCHES PROVIDED BY THE SPRINKLER CONTRACTOR.

10. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR FLUSHING AND HYDROSTATICALLY TESTING ALL FIRE PROTECTION SYSTEM PIPING IN ACCORDANCE WITH NFPA 13, NFPA 14, AND SPECIFIC MANUFACTURER'S REQUIREMENTS.

11. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL DRAINS AND MAKING NECESSARY CONNECTIONS TO DRAIN LOCATIONS.

12. PROVIDE SPARE SPRINKLER CABINETS WITH A REPRESENTATIVE SAMPLE OF NEW SPRINKLERS AND HEAD WRENCHES FOR EACH TYPE OF SPRINKLER INSTALLED. THE MINIMUM QUANTITY OF SPRINKLERS TO BE PROVIDED SHALL BE IN ACCORDANCE WITH NFPA 13.

13. ONLY PERFORM PIPE PREPARATION AND FABRICATION IN AREAS DESIGNATED FOR SUCH WORK BY OWNER.

14. IN LOCATIONS WHERE APPLICATION OF WATER TO ENERGIZED HIGH VOLTAGE EQUIPMENT IS A CONCERN, THE CONTRACTOR SHALL PROVIDE PROTECTION FOR THE EQUIPMENT IN ACCORDANCE WITH NFPA 13.

15. PROVIDE QUICK RESPONSE SPRINKLERS IN ALL AREAS.

**GENERAL DEMOLITION NOTES :**

1. CONTRACTOR SHALL PROTECT CONSTRUCTION INDICATED TO REMAIN AGAINST DAMAGE AND SOILING DURING DEMOLITION.

2. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY DEFECTS AND/OR DECAYING MATERIALS FOUND IN THE EXISTING STRUCTURE PRIOR TO ENCLOSING NEW CONSTRUCTION.

3. CONTRACTOR SHALL PROTECT EXISTING MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND FIRE ALARM ITEMS TO REMAIN. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES.

4. SEE MECHANICAL DRAWINGS FOR DEMOLITION OF ALL PLUMBING AND EQUIPMENT NOT SERVING THE FIRE SPRINKLER AND FIRE STANDPIPE SYSTEM.

5. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL HAZARDOUS WASTE REQUIREMENTS.

6. THE GENERAL CONTRACTOR SHALL MAINTAIN THE SPRINKLER SYSTEM AND STANDPIPE SYSTEM TO THE MAXIMUM EXTENT POSSIBLE DURING DEMOLITION AND CONSTRUCTION. THE SYSTEM SHALL CONFORM TO THE INTERNATIONAL FIRE CODE, INTERNATIONAL BUILDING CODE, AND ALL FEDERAL REQUIREMENTS.

7. HYDRAULIC CALCULATIONS, SUBMITTALS DRAWINGS AND DATA SHEETS CONFORMING TO THESE REQUIREMENTS SHALL BE SUBMITTED FOR REVIEW PRIOR TO DEMOLITION / INSTALLATION.

8. ALL DEMOLITION AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, INTERNATIONAL FIRE CODE, AND ALL FEDERAL REQUIREMENTS.

9. ALL EQUIPMENT SHALL BE NEW AND UNUSED. EXISTING EQUIPMENT TO REMAIN IS ACCEPTABLE PROVIDED IT COMPLIES WITH APPLICABLE CODES.

10. THE CONTRACTOR SHALL PROVIDE A SCHEDULE TO THE OWNER INDICATING THE DEMOLITION SEQUENCE PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL PROVIDE WEEKLY UPDATES TO THE OWNER.

11. CONTRACTOR SHALL SECURE AND PAY ALL FEES AND PERMITS PERTAINING TO THE CONTRACT.

12. CONTRACTOR SHALL RESTORE EXISTING SYSTEMS, DEVICES, FINISHES, ETC., DAMAGED OR ALTERED BY WORK TO ACCEPTABLE CONDITION AS DETERMINED BY THE OWNER, ARCHITECT, AND ENGINEER.

13. EXISTING WORK REMOVED SHALL BE TURNED OVER TO THE OWNER OR DISPOSED OF AT THE OWNER'S DIRECTION. ALL WORK DISPOSED OF SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE. ALL EQUIPMENT TURNED OVER TO THE OWNER SHALL BE DELIVERED TO AN ON SITE CENTRAL RECEIVING LOCATION DESIGNATED BY THE OWNER.

FULLY SPRINKLERED

Scale: AS NOTED

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