#### SPRINKLER GENERAL REQUIREMENTS

- A. FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF THE NEW SPRINKLER WORK.
- B. ALL NEW SPRINKLER WORK SHALL CONFORM TO THE REQUIREMENTS OF LOCAL AUTHORITIES, BUILDING DEPT. AND THE REQUIREMENTS OF APPLICABLE SECTIONS OF NFPA #13 AND #24, FIRE DEPARTMENT AND OTHER LOCAL AUTHORITIES HAVING JURISDICTION, AND THE BUILDING OWNER'S.
- C. CONTRACTOR SHALL PREPARE PIPING PLANS AND HYDRAULIC CALCULATIONS AS REQUIRED BY LOCAL AUTHORITIES. PLANS INDICATING CALCULATION REFERENCE POINTS SHALL BE INCLUDED. CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED AND FILED WITH LOCAL FIRE AND BUILDING DEPARTMENT AUTHORITIES AND 2 SETS OF DRAWINGS TO THE OWNER'S INSURANCE ORGANIZATION FOR APPROVAL. CONTRACTOR SHALL ENGAGE THEIR OWN PROFESSIONAL ENGINEER AND BE RESPONSIBLE FOR ALL FILING, OBTAINING OF APPROVALS AND PERMITS.
- D. SPRINKLER HEAD LOCATIONS SHOWN ON THIS PLAN ARE INTENDED TO SHOW COORDINATION BETWEEN OTHER TRADES. OMISSION OF HEADS REQUIRED BY CODE SHALL NOT RELIEVE THE FIRE PROTECTION
- CONTRACTOR FROM PROVIDING THEM UNDER THIS CONTRACT. E. SPRINKLER HEADS SHALL NOT BE LOCATED IN DECORATIVE MOLDING,
- F. REFER TO DETAILS AND SPECIFICATIONS FOR LOCATION OF SPRINKLER HEADS WITH REFERENCE TO CEILING FIXTURES.

COORDINATE SPRINKLER HEAD LOCATION WITH FIXTURE CONTRACTOR.

G. ALIGN SPRINKLER HEADS WITH LIGHT FIXTURES.

### GENERAL FIRE PROTECTION NOTES

- A. ALL SPRINKLER LINES PASSING THROUGH FIRE RATED WALLS (SEE ARCHITECTURAL PLANS FOR EXACT EXTENT OF NEW RATED WALLS) SHALL BE SLEEVED AND SHALL HAVE THEIR PENETRATIONS THROUGH SUCH WALLS FIRE STOPPED WITH A PENETRATION SEALING SYSTEM EQUAL TO THE 3M CP-25 CAULKING IN A DEPTH AS REQUIRED TO MEET THE RESPECTIVE HOUR RATING OF THE WALL.
- B. REFER TO INTERIOR PLANS FOR ALL CEILING HEIGHTS.
- C. THE FIRE PROTECTION SYSTEM SHALL BE INSTALLED IN COMPLETE ACCORDANCE WITH NFPA 13 AND IN ACCORDANCE WITH THE REQUIREMENTS OF LANDLORD'S FIRE INSURANCE UNDERWRITERS, LOCAL FIRE DEPARTMENT AND ALL GOVERNING LOCAL AUTHORITIES.
- D. CONTRACTOR SHALL PROCURE AND PAY FOR ALL PERMITS, INSPECTIONS, ETC., AS ARE REQUIRED TO PERFORM HIS WORK.
- E. THE PROCEDURES TO BE USED SHALL PROVIDE FOR THE SAFE CONDUCT OF THE WORK, CAREFUL DISPOSITION AND INSTALLATION OF ALL MATERIALS. PROTECTION OF PROPERTY AND PERSONNEL, AND COORDINATION WITH OTHER WORK IN PROGRESS.
- F. DURING CONSTRUCTION OPERATIONS, ALL PERSONS AND PROPERTY SHALL BE PROTECTED. THE WORK SHALL PROCEED IN SUCH A MANNER SO AS TO MINIMIZE ANY SPREAD OF DEBRIS AND FLYING PARTICLES, AND SO THAT THE EFFECTS OF THE CONSTRUCTION DO NOT INTERFERE WITH OTHER WORK IN PROGRESS.
- G. ALL PIPING BE SUPPORTED FROM THE STRUCTURE AND SHALL NOT BE SUPPORTED FROM THE ROOF DECK OR OTHER PIPING/EQUIPMENT/DUCTS. THERE SHALL BE NO EXCEPTIONS TO THIS.
- H. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES IN ORDER TO AVOID CONFLICTS OF ANY TYPE.
- I. ALL SPRINKLER PIPING SHALL BE 1" MINIMUM SIZE UNLESS OTHERWISE SHOWN ON THE PLANS. PROVIDE DRAIN VALVES AS REQUIRED PER NFPA #13 AND #24.
- J. COORDINATE WITH OWNER'S FIELD REPRESENTATIVE FOR ALL PHASING AND SCHEDULING.
- K. THE PLANS INDICATE THE SPRINKLER HEAD LOCATIONS. THE CONTRACTOR SHALL PERFORM ALL HYDRAULIC CALCULATIONS, DESIGN, FABRICATE AND INSTALL A COMPLETE SPRINKLER SYSTEM, INCLUDING ALL VALVES, DRAINS AND INSPECTOR TEST STATIONS. SPRINKLER HEADS SHALL BE APPROXIMATELY CENTERED WITH  $\pm 1/2$  AT THE CENTER OF ACOUSTICAL LAY-IN CEILING TILE. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- NO SPRINKLER BRANCH OR MAINS SHALL PASS THROUGH IT ROOMS, TELEPHONE ROOMS OR ELECTRICAL ROOMS. THE ONLY SPRINKLER PIPING THAT SHALL BE ALLOWED IS THAT SERVING SPRINKLERS IN THE ROOM ONLY. NO EXCEPTIONS WILL BE ALLOWED.
- M. SPRINKLER CONTRACTOR SHALL NOTIFY BUILDING LANDLORD 48 HOURS PRIOR TO SHUT-DOWN AND DRAINING OF THE EXISTING SPRINKLER SYSTEM PRIOR TO START OF ANY WORK. SPRINKLER SYSTEM SHALL BE FILLED AFTER EACH WORK DAY AND SHALL NOT BE LEFT UNPROTECTED AT ANY TIME.
- N. THE SPRINKLER CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS THROUGHOUT THE LEASED PREMISES. IN ACCORDANCE WITH NFPA-10 REQUIREMENTS AND FIRE INSURANCE UNDERWRITERS. FIRE EXTINGUISHER TYPE: 2A10-BC.

### **GENERAL CONDITIONS**

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS AND SHALL REPORT TO ENGINEER ANY DISCREPANCIES OR OMISSIONS THAT WOULD INTERFERE WITH SATISFACTORY COMPLETION OF THE
- 2. IN THE EVENT OF ANY DISCREPANCY BETWEEN THE DEMOLITION PLAN AND THE CONSTRUCTION PLANS, CONSTRUCTION PLANS AND INTENT SHALL GOVERN.
- . CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING WITH BUILDING MANAGEMENT FOR HANDLING MATERIALS, AS WELL AS FOR ALLOWABLE WORKING HOURS AND DELIVERIES.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS AND MANUFACTURERS' CUTS AND SAMPLES TO ARCHITECT PRIOR TO COMMENCEMENT OF SUCH WORK.
- 5. DRAWINGS ARE NOT TO BE SCALED.
- 6. CONTRACTOR SHALL COMPLY WITH ALL BUILDING DEPARTMENT AND REGULATORY AGENCIES AND CODE REQUIREMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS OF ALL TRADES.
- CONTRACTOR SHALL CARRY AND DOCUMENT LIABILITY, ACCIDENT AND PROPERTY DAMAGE INSURANCE AS REQUIRED.
- 8. CONTRACTOR SHALL EXERCISE EXTREME CARE IN PROTECTING AREAS ADJACENT TO CONSTRUCTION AREAS, SHALL FULLY PROTECT THEM FROM ANY DAMAGE RESULTING FROM CONTRACTOR'S WORKMEN, SUBCONTRACTORS OR AGENTS, AND SHALL BE RESPONSIBLE FOR REPAIRING, CLEANING OR REPLACING ANY SUCH DAMAGE.
- 9. ALL DIMENSIONS GIVEN ARE FINISH DIMENSIONS UNLESS OTHERWISE STATED.
- 10. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, APPURTENANCES, EQUIPMENT AND SERVICES TO COMPLETE ALL WORK AS INDICATED ON DRAWINGS AND/OR SPECIFIED ON NOTES.
- 11. UNLESS SPECIFICALLY STATED OTHERWISE, CONTRACTOR SHALL FOLLOW MANUFACTURERS' DIRECTIONS, INSTRUCTIONS AND RECOMMENDATIONS FOR ALL MATERIALS AND PROCESSES USED IN THIS CONTRACT.
- 12. UPON COMPLETION OF THE WORK, CONTRACTOR SHALL COMPLETELY CLEAN THE CONSTRUCTION AREA SUITABLE FOR THE OWNER'S USE, INCLUDING REMOVAL OF ALL LABELS (AFTER ARCHITECT'S INSPECTION), CLEANING OF ALL THE EQUIPMENT, CONSTRUCTION WORK, WINDOWS AND OTHER WORK, NEW AND OLD, IN THAT CONSTRUCTION AREA.
- 13. BUILDING DEPARTMENT APPROVED PLANS SHALL BE TURNED OVER TO OWNER AT THE COMPLETION OF THE JOB.
- 14. AT THE FINAL COMPLETION OF THE JOB, CONTRACTOR SHALL SUBMIT TO THE CLIENT AND TO ENGINEER A NOTARIZED AFFIDAVIT STATING COMPLIANCE WITH ALL PROVISIONS OF THIS CONTRACT, INCLUDING ALL NOTES, EXCEPT FOR THOSE CHANGES SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT.
- 15. CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT FOR ONE YEAR. STARTING FROM DATE OF FINAL COMPLETION OF ALL WORK.

# SPRINKLER NOTES

- SPRINKLER HEADS SHALL BE  $\pm$  1/2" FROM CENTER LINE OF TILES. CONTRACTOR SHALL ALLOW FOR ALL REQUIRED FITTINGS TO ACHIEVE THIS AND INCLUDE THIS IN THEIR CONTRACT PRICE.
- CONTRACTOR SHALL COORDINATE ALL NEW WORK WITH NEW WORK OF OTHER TRADES AND EXISTING CONDITIONS AND PREPARE COORDINATED
- PIPE SIZES SHALL BE DETERMINED BY CONTRACTOR HYDRAULIC CALCULATIONS BASED ON THEIR INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN THEIR CONTRACT PRICE.
- 4. ANY CONNECTION BETWEEN DIFFERENT MATERIALS SHALL BE USED WITH DIELECTRIC FITTINGS.

SYSTEM

THROUGHOUT. COORDINATE PLATES WITH ARCHITECT.

COORDINATE FINISH WITH ARCHITECT. COVERAGE 18x22 FT @ 25 PSI

ON PIPING 2" & SMALLER.

SPRINKLER WET

### SPRINKLER SPECIFICATIONS

- A GENERAL REQUIREMENTS
  - 1. SPRINKLER SYSTEM SHALL COMPLY WITH NFPA 13, 24 AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
  - THE WORK PROVIDED UNDER THIS SECTION OF THE SPECIFICATION AND ACCOMPANYING DRAWINGS SHALL INCLUDE ALL LABOR, MATERIALS, APPURTENANCES AND SERVICES AND PERFORMING ALL OPERATIONS NECESSARY FOR THE MODIFICATION OF THE EXISTING SPRINKLER SYSTEM.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECT'S REFLECTED CEILING PLAN FOR CORRECT LOCATION OF ALL SPRINKLER HEADS.

#### B. COORDINATION

- BEFORE SUBMITTING PROPOSAL, EXAMINE ALL DRAWINGS RELATING TO THIS WORK AND CONDITIONS EXISTING AT THE SITE. BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK TO BE PERFORMED AND ITS RELATION TO OTHER WORK ON THIS PROJECT. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE.
- PIPING SHALL BE INSTALLED TO BE CLEAR OF ANY AND ALL CONDUITS, LIGHTING FIXTURES, DUCTWORK HEATING AND CONDENSER WATER PIPING. THIS CONTRACTOR SHALL CONSULT WITH THE CONTRACTORS OF OTHER TRADES TO FACILITATE THE MODIFICATION OF THE EXISTING SPRINKLER
- SEE ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR CONSTRUCTION AND INTERFERENCE DETAILS. ANY CHANGES THAT MAY BE NECESSARY BECAUSE OF THE PHYSICAL CONDITIONS OR COMPLIANCE WITH THE STANDARDS SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE
- ANY CUTTING OR PATCHING AS THE RESULT OF FAILURE OF THIS CONTRACTOR TO INSTALL EMBEDDED OR AS-BUILT ITEMS TO FURNISH TEMPLATES AS AND WHEN REQUIRED SHALL BE PERFORMED BY THE TRADE WHOSE WORK IS AFFECTED AND PAID FOR BY THIS CONTRACTOR.
- C. ALTERATION WORK
  - ALL PIPING TO BE REMOVED SHALL BE PROPERLY PLUGGED OR CAPPED SO THAT UPON COMPLETION OF ALL NEW WORK, ALL ABANDONED PIPING SHALL NOT BE CONCEALED IN FINISHED AREAS.
  - THE EXISTING SYSTEM SHALL BE LEFT IN PERFECT WORKING ORDER UPON COMPLETION OF ALL NEW WORK.
  - 3. NO REMOVED EXISTING PIPING, SPRINKLER HEADS, ETC., SHALL BE REUSED.
  - 4. THE CONTRACTOR SHALL GIVE AMPLE WRITTEN NOTICE IN ADVANCE TO BUILDING OWNER OF ANY REQUESTED SHUTDOWNS AND SHALL NOT INTERRUPT ANY OF THE BASE-BUILDING SERVICES, NOR INTERFACE WITH THE SERVICES IN ANY WAY WITHOUT EXPRESSED PERMISSION OF THE OWNER. SUCH INTERRUPTIONS AND INTERFACES SHALL BE MADE AS BRIEF AS POSSIBLE AND ONLY AT THE TIME STATED BY THE OWNER. THE BREAKING INTO EXISTING WORK SHALL BE DONE ONLY AFTER APPROVAL HAS BEEN RECEIVED FROM THE OWNER.
  - UNDER NO CIRCUMSTANCES WILL THIS CONTRACTOR OR HIS WORKMEN BE PERMITTED TO USE ANY PART OF THE BUILDING AS A SHOP, EXCEPT PARTS DESIGNATED BY THE OWNER FOR SUCH PURPOSES.
- REROUTE OR REMOVE ALL EXISTING PIPING WHERE NECESSARY TO AVOID NEW EQUIPMENT, ELECTRICAL MECHANICAL. STRUCTURAL OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATION.
- WHERE THE WORK MAKES TEMPORARY SHUTDOWNS OF SERVICES UNAVOIDABLE, THEY SHALL BE MADE AT NIGHT OR AT TIMES AS WILL CAUSE THE LEAST INTERFERENCE WITH THE ESTABLISHED OPERATING ROUTINE OF THE BUILDING.
- THIS CONTRACTOR SHALL ARRANGE THE WORK CONTINUOUSLY INCLUDING OVERTIME. IF REQUIRED TO ASSURE THAT SERVICES WILL BE SHUTDOWN ONLY DURING THE TIME ACTUALLY REQUIRED TO MAKE THE NECESSARY CONNECTIONS TO EXISTING WORK.

D. COVERING OF WORK: DO NOT COVER OR HIDE FROM VIEW PIPE FITTINGS OR OTHER WORK OF ANY KIND BEFORE IT HAS BEEN EXAMINED BY THE ARCHITECT AND ANY OTHER AUTHORITY HAVING JURISDICTION OVER SAME. REMOVE ANY UNSATISFACTORY WORK OR MATERIALS AND CORRECT IMMEDIATELY AFTER IT HAS BEEN REJECTED AND FURNISH OTHER WORK AND MATERIALS SATISFACTORY TO THE ARCHITECT AT NO ADDITIONAL COST.

#### SHOP DRAWINGS

- SUBMIT FOR ARCHITECTURAL APPROVAL SIX (6) COPIES OF SPRINKLER HEADS, PIPE AND FITTINGS, COMPLETE PIPING DRAWINGS, APPURTENANCES AND HYDRAULIC CALCULATIONS FOR SUBMISSION TO BUILDING DEPARTMENT.
- WHENEVER ITEMS OR CLASS OF MATERIAL IS SPECIFIED EXCLUSIVELY BY TRADE NAME, MANUFACTURER'S NAME OR BY CATALOG REFERENCE, USE ONLY SUCH ITEMS UNLESS PRIOR WRITTEN APPROVAL FOR SUBSTITUTION, STATE CREDIT OR EXTRA INVOLVED AND PROVIDE ALL NECESSARY SUPPORTING DATA.
- WORKING PLANS: BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL PREPARE COMPLETE AND DETAILED COORDINATED WORKING PLANS AND OBTAIN ALL APPROVALS FROM ANY AGENCY HAVING JURISDICTION. COPIES OF APPROVED WORKING PLANS SHALL BE FURNISHED TO THE ARCHITECT PROMPTLY AFTER SUCH APPROVAL.
- WORK NOT INCLUDED: CUTTING AND ROUGH AND FINISHED PATCHING.

### MATERIALS

- 1. PIPE, FITTINGS AND ACCESSORIES
- a. ALL PIPE, FITTINGS AND OTHER APPURTENANCES SHALL BE OF THE MATERIALS AND WEIGHTS REQUIRED BY THE NFPA STANDARDS AND AUTHORITIES HAVING JURISDICTION.
- b. SPRINKLER PIPING INSIDE OF THE BUILDING SHALL BE OF STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE WITH APPROVED STANDARD WEIGHT CAST IRON, THREADED OR FLANGED SPRINKLER FITTINGS. THE CONTRACTOR AT HIS OPTION MAY USE GROOVED COUPLINGS AND FITTINGS EXCEPT ON SPRINKLER
- 2. HANGERS, ANCHORS, INSERTS AND PIPE SLEEVES
- METAL PIPE SUPPORT BRACES, HANGERS, CLAMPS ETC., AND ALL OTHER ACCESSORIES SHALL BE UNDERWRITERS' LABORATORIES TESTED APPROVED PATTERN, AND SO PLACED AS TO CONFORM WITH THE REQUIREMENT OF NFPA PAMPHLET #13 AND
- b. NO PIPING WILL BE PERMITTED TO BE SUPPORTED FROM OTHER PIPING.
- c. PROVIDE SUITABLE AND SUBSTANTIAL HANGERS AND SUPPORTS FOR ALL PIPING.
- d. ALL PIPING MUST BE HUNG FROM BUILDING STEEL: CONCRETE INSERTS CAN ONLY BE USED WHERE APPROVED BY THE ENGINEER.
- e. THIS CONTRACTOR MAY COORDINATE WITH THE OTHER CONTRACTORS TO USE COMMON MEANS OF SUPPORT. SUBMIT FOR APPROVAL ALL PERTINENT DESIGN RELATING TO THE SUPPORT AS WELL AS VERIFICATION OF THE RESPONSIBILITY FOR THE

### 1. ALL SPRINKLER HEADS SHALL BE UL LISTED AND

I. SPRINKLER HEADS

- APPROVED BY OWNER'S INSURANCE. SHALL HAVE 1/2" ORIFICE AND, IN GENERAL, SHALL HAVE ORDINARY TEMPERATURE RATING (165 DEGREE F.) EXCEPT WHERE OTHERWISE NOTED ON DRAWINGS.
- - 1. TO COMPLY WITH NFPA AND ALL AUTHORITIES HAVING JURISDICTION.
- THE SPRINKLER SYSTEM SHALL BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST FOR A PERIOD OF TWO HOURS AT A PRESSURE OF AT LEAST 200 PSIG OR 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE TO BE MAINTAINED WHEN THE MAXIMUM PRESSURE IN THE SYSTEM IS IN EXCESS OF 150 PSI AS PER NFPA

### NEW YORK STATE SPRINKLER NOTES

- AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH 2020 NYS BUILDING CODE SECTION 903 & MODIFIED BY AND NFPA 13-2016.
- CONSTRUCTION DOCUMENTS FOR SPRINKLER SYSTEM SHALL CONTAIN PLANS THAT INCLUDE THE INFORMATION AND DATA LISTED IN SECTION 903.1.2 OF NYS
- APPROVED AUTOMATIC SPRINKLER SYSTEM IN NEW BUILDINGS AND STRUCTURES SHALL BE PROVIDED IN THE LOCATIONS DESCRIBED IN SEC. 903.2 OF NYS
- AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH SEC. 903.2.1 THROUGH 903.5 OF NYS BUILDING CODE.
- WHERE THE PROVISIONS OF NYS BUILDING CODE REQUIRE THAT A BUILDING OR PORTION THEREOF BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SEC. 903.3.1.1, SPRINKLERS SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13-2016 AS AND EXCEPT AS PROVIDED IN SEC. 903.3.1.1.1. AND 903.2 OF NYS BUILDING
- AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE ROOMS OR AREAS WHICH ARE LISTED IN 903.3.1.1.1 OF NYS BUILDING CODE AS LONG AS AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH NYS BUILDING CODE SECTION 907.2 AND AN ALTERNATIVE EXTINGUISHING SYSTEM IN ACCORDANCE WITH NYS BUILDING CODE SECTION 904.
- SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL

EQUIPMENT AS PER SEC. 903.3.1.1.1 OF THE NYS BUILDING CODE.

- WHERE ALLOWED IN BUILDINGS OF GROUP R, UP TO AND INCLUDING SIX STORIES IN HEIGHT, AUTOMATIC SPRINKLER SYSTEM SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE WITH NFPA 13R.
- WHERE AUTOMATIC SPRINKLER SYSTEM ARE REQUIRED BY NYC BUILDING CODE. QUICK-RESPONSE AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN THE AREAS LISTED, AS PER SECTION 903.3.2 OF NYS BUILDING CODE.
- 10. AUTOMATIC SPRINKLERS SHALL BE INSTALLED WITH DUE REGARD TO OBSTRUCTIONS THAT WILL DELAY ACTIVATION OR OBSTRUCT THE WATER DISTRIBUTION PATTERN. AUTOMATIC SPRINKLERS SHALL BE INSTALLED IN OR UNDER COVERED KIOSKS, DISPLAYS, BOOTH, CONCESSION STANDS, OR EQUIPMENT THAT EXCEEDS 4 FEET IN WIDTH. NOT LESS THAN A 3 FOOT CLEARANCE SHALL BE MAINTAINED BETWEEN AUTOMATIC SPRINKLERS AND TOP OF PILES OF COMBUSTIBLE FIBERS, AS PER SEC. 903.3.3. OF NYS BUILDING CODE.
- WATER SUPPLIES FOR AUTOMATIC SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 903.3.5 OF NYS BUILDING CODE AND SEC. 903.3.1. THE POTABLE WATER SUPPLY SHALL BE PROTECTED AGAINST BACK FLOW IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 903.3.5 THE NYS PLUMBING CODE, AND RULES OF THE NYS DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- 12. A SECONDARY ON-SITE WATER SUPPLY EQUAL TO THE HYDRAULICALLY CALCULATED SPRINKLER DEMAND, INCLUDING THE HOSE STREAM REQUIREMENT, SHALL BE PROVIDED FOR HIGH-RISE BUILDINGS IN SEISMIC DESIGN CATEGORY "C" OR "D" AS DETERMINED BY THIS CODE, AND IN ANY HIGH-RISE BUILDING WITH OCCUPIED FLOORS LOCATED MORE THAN 300 FEET ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS. THE SECONDARY WATER SUPPLY SHALL HAVE A DURATION NOT LESS THAN 30 MINUTES AS DETERMINED BY THE OCCUPANCY HAZARD CLASSIFICATION IN ACCORDANCE WITH NFPA 13-2016 AS PER SEC 903.3.5.2 OF THE NYS BUILDING CODE.
- 13. FIRE HOSE THREADS AND FITTINGS USED IN CONNECTION WITH AUTOMATIC SPRINKLER SYSTEMS SHALL BE APPROVED AND COMPATIBLE WITH FIRE DEPARTMENT HOSE THREADS AS PER NYC BUILDING CODE SEC 903.3.6.
- 14. ALL VALVES CONTROLLING THE WATER SUPPLY FOR AUTOMATIC SPRINKLER SYSTEMS. PUMPS. TANKS. WATER LEVELS AND TEMPERATURES. CRITICAL AIR PRESSURES AND WATER—FLOW SWITCHES ON ALL SPRINKLER SYSTEMS SHALL RE ELECTRICALLY SUPERVISED BY THE FIRE ALARM WHERE A FIRE ALARM SYSTEM IS REQUIRED BY NYC BUILDING CODE SECTION 907, AS PER NYC BUILDING CODE SECTION 903.4.
- 15. APPROVED SUPERVISED INDICATING CONTROL VALVES SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE RISER ON EACH FLOOR IN HIGH-RISE BUILDINGS AS PER SEC. 903.4.3 OF THE NYS BUILDING CODE.
- 16. THE DOCUMENTS OR PORTIONS THERE OF LISTED IN CHAPTER 2 OF NFPA 13-2016 ARE REFERENCED WITHIN NFPA-13 AND SHALL BE CONSIDERED PART OF THE REQUIREMENTS OF THIS DOCUMENT.
- 17. OCCUPANCY CLASSIFICATION SHALL COMPLY WITH CHAPTER 5 OF NFPA 13-2016 AND CHAPTER 3 OF NYBC 2020.
- 18. PROTECTION REQUIREMENTS FOR MIXED COMMODITIES SHALL BE ACCORDANCE WITH SEC. 5.6.1.2 OF NFPA 13-2016.

19. REQUIREMENTS FOR CORRECT USE OF SPRINKLER SYSTEM COMPONENTS SHALL

- COMPLY WITH CHAPTER 6 OF NFPA 13-2016. 20. THE K-FACTOR, RELATIVE DISCHARGE, AND MARKING IDENTIFICATION FOR SPRINKLERS HAVING DIFFERENT ORIFICE SIZES SHALL BE IN ACCORDANCE WITH
- TABLE 6.2.3.1 OF NFPA 13-2016. 21. LARGE DROP AND ESFR SPRINKLERS SHALL HAVE A MINIMUM NOMINAL K-FACTOR OF 11.2 WITH SEC. 6.2.3.5 OF NFPA 13-2016.
- 22. AUTOMATIC SPRINKLERS SHALL HAVE THEIR FRAME ARMS, DEFLECTOR, COATING MATERIAL, OR LIQUID BULB COLORED IN ACCORDANCE WITH THE REQUIREMENTS OF TABLE 6.2.5.1, 6.2.5.2, 6.2.5.3, 6.2.5.4 OR 6.2.5.5 OF NFPA 13-2016.
- 23. LISTED CORROSION RESISTANT SPRINKLER SHALL BE INSTALLED IN LOCATIONS WHERE CHEMICALS, MOISTURE, OR OTHER CORROSIVE VAPORS SUFFICIENT TO CAUSE CORROSION OF SUCH DEVICES EXIST WITH SEC. 6.2.6.1. OF NFPA
- 24. ALL CONTROL, DRAIN, AND TEST CONNECTION VALVES SHALL BE PROVIDED WITH PERMANENTLY MARKED WEATHERPROOF METAL OR RIGID PLASTIC IDENTIFICATION SIGNS, AS PER SEC. 6.7.4.1 OF NFPA 13-2016.

25. FIRE DEPARTMENT CONNECTIONS SHALL BE EQUIPPED WITH LISTED PLUGS OR

- CAPS, PROPERLY SECURED AND ARRANGED FOR EASY REMOVAL BY FIRE DEPARTMENTS, AS PER SEC. 6.8.2 OF NFPA 13-2016. 26. REQUIREMENTS OF DRY PIPE SYSTEM INSTALLATION SHALL COMPLY WITH SEC.
- 27. REQUIREMENTS OF PREACTION & DELUGE SYSTEM INSTALLATION SHALL COMPLY WITH SEC. 7.3 OF NFPA 13-2016.

- 28. OUTSIDE SPRINKLERS FOR PROTECTION AGAINST EXPOSURE FIRE SHALL COMPLY WITH SEC. 7.8 OF NFPA 13-2016.
- 29. THE MAXIMUM FLOOR AREA OR ANY ONE FLOOR TO BE PROTECTED BY SPRINKLERS SUPPLIED BY ANY ONE SPRINKLER SYSTEM RISER OR COMBINED SYSTEM RISER SHALL COMPLY WITH SEC. 8.2.1 OF NFPA 13-2016.
- 30. WHERE THERE ARE NO LISTED QUICK-RESPONSE SPRINKLERS IN THE TEMPERATURE RANGE REQUIRED, STANDARD RESPONSE SPRINKLERS SHALL BE PERMITTED TO BE USED, PER SEC. 8.3.3.3 OF NFPA 13-2016.
- WHEN EXISTING LIGHT HAZARD SYSTEMS ARE CONVERTED TO USE QUICK-RESPONSE OR RESIDENTIAL SPRINKLERS, ALL SPRINKLERS IN A COMPARTMENTED SPACE SHALL BE CHANGED IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 8.3.3.4 OF NFPA 13-2016.
- 32. SPRINKLERS OF INTERMEDIATE AND HIGH TEMPERATURE RATINGS SHALL BE INSTALLED IN SPECIFIC LOCATIONS AS REQUIRED BY SECTION 8.3.2.5 OF NFPA 13-2016 SEC. 8.3.2.4.
- SPRINKLERS SHALL BE LOCATED, SPACED AND POSITIONED IN ACCORDANCE WITH THE REQUIREMENTS OF SEC. 8.5 OF NFPA 13-2016.
- PROTECTION AREAS AND MAXIMUM SPACING FOR EACH HAZARD SHALL COMPLY WITH TABLE 8.6.2.2.1 (A) (B) (C) (D) OF NFPA 13-2016.
- 35. REQUIREMENTS OF DWELLING UNITS PROTECTION SHALL COMPLY WITH SEC. 8.15.8 OF NFPA 13-2016.
- 36. REQUIREMENTS OF STAGE AREA PROTECTION SHALL COMPLY WITH SEC. 8.15.16 OF NFPA 13-2016.
- 37. DRAIN CONNECTIONS FOR SYSTEMS SUPPLY RISERS AND MAINS SHALL BE SIZED AS SHOWN IN TABLE 8.16.2.4.2 .
- 38. TYPES OF HANGERS SHALL BE ACCORDANCE WITH THE REQUIREMENT OF SEC. 9.1. OF NFPA 13-2016.
- 39. MAXIMUM DISTANCE BETWEEN HANGERS SHALL COMPLY WITH TABLE 9.2.2.1 OF
- NFPA 13-2016. 40. THE WATER SUPPLY FOR SPRINKLERS SHALL BE DETERMINED BY DENSITY/AREA
- CURVE, FIGURE 11.2.3.1.1 OF NFPA 13-2016. 41. HYDRAULIC DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS SHALL
- COMPLY WITH FIGURE 11.2.3.2.3.1 OF NFPA 13-2016. 42. CALCULATIONS FOR DRY SYSTEM WATER DELIVERY SHALL BE BASED ON THE
- 43. DESIGN CRITERIA OF WATER CURTAIN SHALL COMPLY WITH SEC. 11.3.3 OF NFPA
- 44. TYPE OF SPRINKLER HEAD IN GENERAL STORAGE SHALL COMPLY WITH SEC. 12.6.2 OR 12.6.3 OF NFPA 13-2016.

HAZARD SHOWN IN TABLE 7.2.3.6.1 OF NFPA 13-2016.

- 45. MINIMUM OPERATING PRESSURE OF ANY SPRINKLER SHALL COMPLY WITH SEC. 22.4.4.10.1 OF NFPA 13-2016.
- 46. NUMBER OF WATER SUPPLIES FOR SPRINKLER SYSTEM SHALL COMPLY WITH SEC. 18.3 OF NFPA 13-2016
- SPRINKLER SYSTEM PIPING AND VALVE HANDLES SERVING SPRINKLER SYSTEM SHALL BE PAINTED IN ACCORDANCE WITH LOCAL CODES

SPRINKLER SYMBOL LIST							
<b>∞</b>	NEW CONCEALED/SEMI-RECESSED SPRINKLER HEAD						
$\bigcirc$	NEW UPRIGHT SPRINKLER HEAD						
•	NEW SIDEWALL SPRINKLER HEAD						
<b>⊕</b> <sub>E</sub>	EXISTING SPRINKLER HEAD TO REMAIN						
5	NEW SPRINKLER PIPING						
C	PIPE DROP						
×	SHUT-OFF VALVE						
F.S.	WATERFLOW SWITCH						
5 5	CHECK VALVE						
<u></u>	NEW FIRE DEPARTMENT SIAMESE CONNECTION						
5	DRAINAGE PIPE						
•	CONNECT NEW TO EXISTING						
•	DISCONNECT AND CAP EXISTING WORK						
\dot{\dot{\dot}}	OS & Y VALVE W/ LOCK AND CHAIN WITH TAMPER SWITCH						
× <sub>E</sub>	EXISTING SPRINKLER HEAD TO BE REMOVED						
<b>₹</b>	EXISTING SPRINKLER HEAD TO BE RELOCATED						
<del>-~~~~~</del>	EXISTING SPRINKLER PIPING TO BE REMOVED						

# SYSTEM DRAINAGE NOTE

THE SPRINKLER CONTRACTOR SHALL INCLUDE IN HIS PRICE ALL COSTS RELATED TO DRAINING AND SHUTDOWN OF EXISTING SPRINKLER SYSTEM SERVING THESE AREAS. NO ADDITIONAL DRAINING AND OR SHUTDOWN TIME ACCEPTED. THE SPRINKLER CONTRACTOR SHALL COORDINATE SYSTEM SHUTDOWN AND DRAINING WITH BUILDING OWNER. PROVIDE NOTICE 24 HOURS IN ADVANCE. THE SYSTEM MUST BE FILLED AND BACK ON LINE AS SOON AS THE DAYS WORK IS COMPLETED; AT NO TIME SHOULD THE AREA OF WORK BE UNPROTECTED.

FIRE PROTECTION MATERIAL SCHEDULE

#### 1. FOR REQUIRED PRESSURE RATINGS SEE RISER DIAGRAM. 2. ALL MATERIALS SELECTED ON THIS SCHEDULE MUST BE APPROVED BY THE LOCAL AUTHORITIES. 3. TO BE USED DOWNSTREAM OF SPRINKLER CONTROL VALVE ON PIPING 2½" AND LARGER. 4. TO BE USED DOWNSTREAM OF FLOOR CONTROL VALVE

		DUCTILE IRON	CAST IRON WTR PIPE	STEEL SCHED 10	STEEL SCHED 40	BLACK	GALVANIZED	CEMENT LINED	MALLEABLE IRON	CLASS 350	LINED	l	GALVANIZED (DRAINAG	VICTAULIC	DUCTILE IRON		MECH.JOINT-FLANGED	
NOTE	3)				•	•			•							•		
NOTE	4)				•	•			•							•		Ī
					•	•	•		•							•		Ī
								П							П		П	Г

SPRINKLER	DRAIN	I PIPE (1	TEST & DRAIN)						
			SP	RINKL	ER HEAD	) LEGE	END		
SYMBOL	ORF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	STYLE	PLATE	MFG.
0	1/2"	165°	QUICK	5.62	CHROME	F1FR	UPRIGHT	NONE	RELIABLE
<b>▼</b>	1/2"	155°	QUICK	5.62	CHROME	G5-56	CONCEALED	NOTE 1	RELIABLE
<b>∑</b> D	1/2"	155°	QUICK	5.62	CHROME	G5-56	CONCEALED	NOTE 1	RELIABLE
◀	1/2"	155°	QUICK	5.62	CHROME	G6-56	CONCEALED SIDEWALL	NOTE 1	RELIABLE
<b>⋖</b> EC	1/2"	155°	QUICK	5.62	CHROME	G6-80	EXTENDED COVERAGE CONCEALED SIDEWALL	NOTE 3	RELIABLE
$\triangleleft$	1/2"	155°	QUICK	5.62	CHROME	F1FR	CONCEALED SIDEWALL	NOTE 1	RELIABLE

CONCEALED SPRINKLER CAPS TO BE WHITE OR CUSTOM COLOR AS REQUIRED TO MATCH CEILING/WALL SURFACES

# PERMIT NOTE

HYDRAULIC CALCULATIONS, AND FINAL INSPECTIONS.

THE SPRINKLER CONTRACTOR SHALL FILE ALL PLANS STATE AND LOCAL BUILDING FIRE CODES, OBTAIN ALL NECESSARY PERMITS, PROVIDE

SPRINKLER DRAWING LIST									
DRAWING NO.	DRAWING TITLE								
SP-001.00	SPRINKLER COVER SHEET								
SP-200.00	SPRINKLER FIRST FLOOR PLAN								
SP-700.00	SPRINKLER DETAILS								
SP-800.00	SPRINKLER SPECIFICATIONS I								
SP-801.00	SPRINKLER SPECIFICATIONS II								

FIFIELD PIAKER ELMAN ARCHITECTS, PC

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Project: CHABAD DOWNTOWN

30 WALL STREET BINGHAMTON, NY 13901

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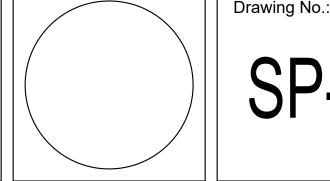
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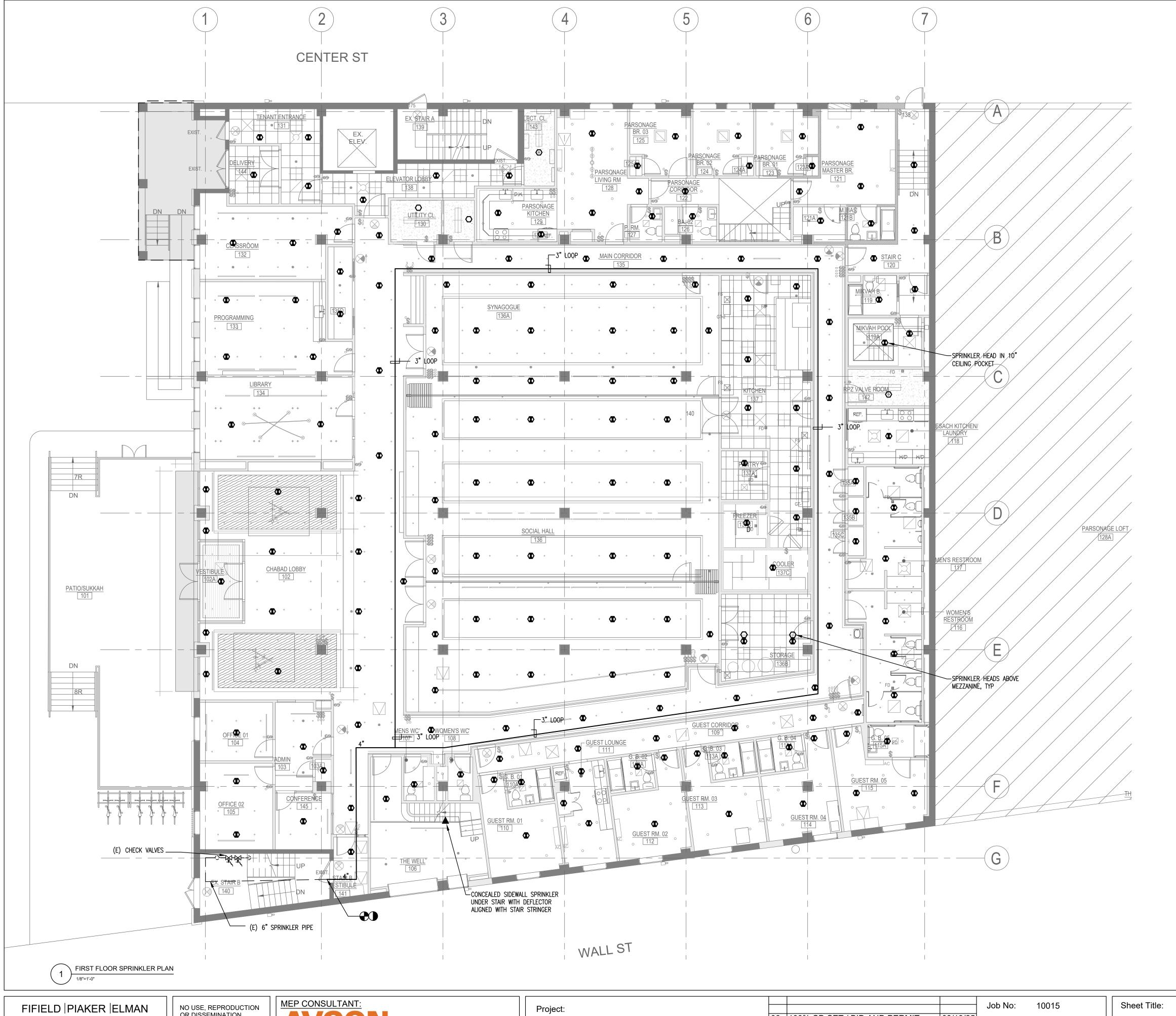
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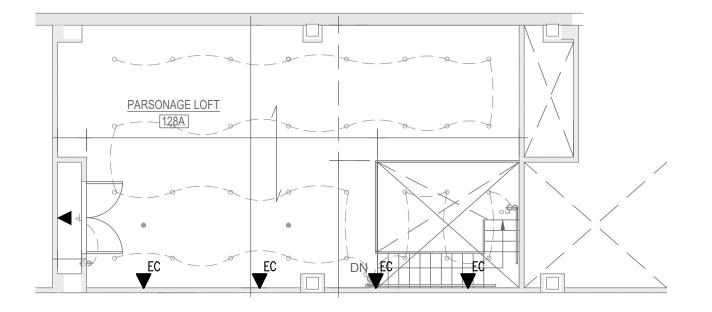
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SPRINKLER COVER SHEET







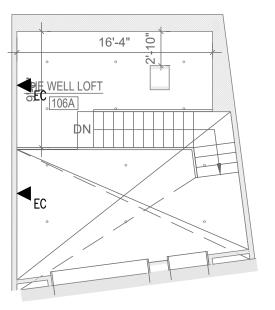
Y PARSONAGE LOFT SPRINKLER PART PLAN

# GENERAL NOTES

- 1. DEMOLISH ALL EXISTING SPRINKLER HEADS AND PIPING WITHIN AREA OF WORK BACK TO MAIN. EXISTING SPRINKLERS AND BRANCH PIPING SERVING ADJACENT OUT OF SCOPE SPACE SHALL REMAIN AND BE RECONNECTED TO NEW SPRINKLER MAIN. CONTRACTOR TO VERIFY IN FIELD.
- 2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NYS BUILDING CODE, ADMINISTRATIVE CODE, NYS FIRE CODE AND NFPA 13 AS MODIFIED BY LOCAL AHJ.
- 3. CONTRACTOR TO COORDINATE SPRINKLER INSTALLATION WITH ALL OTHER TRADES.
- 4. CONTRACTOR TO MAINTAIN EGRESS AT ALL TIMES. ALL AREAS OUTSIDE OF THE SCOPE OF WORK TO REMAIN PROTECTED BY ACTIVE SPRINKLERS AT ALL TIMES.
- 5. COORDINATE SPRINKLER COVER PLATES WITH ARCHITECT.

SPRINKLER HEAD COUNT								
TYPE	NEW							
CONCEALED	175							
UPRIGHT	6							
SIDEWALL	8							
DRY	1							

TNUC	SPRINKLER PIPE SCHEDULE								
	PIPE SIZE	SPRINKLERS							
	1 INCH	2 HEADS							
	1 1/4 INCH	3 HEADS							
	1½ INCH	5 HEADS							
	2 INCH	10 HEADS							
	2 ½ INCH	30 HEADS							
	3 INCH	60 HEADS							
		•							



POSITIVITY SPACE LOFT SPRINKLER PART PLAN

1/8"=1'-0"

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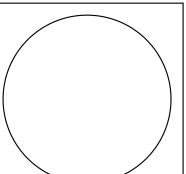
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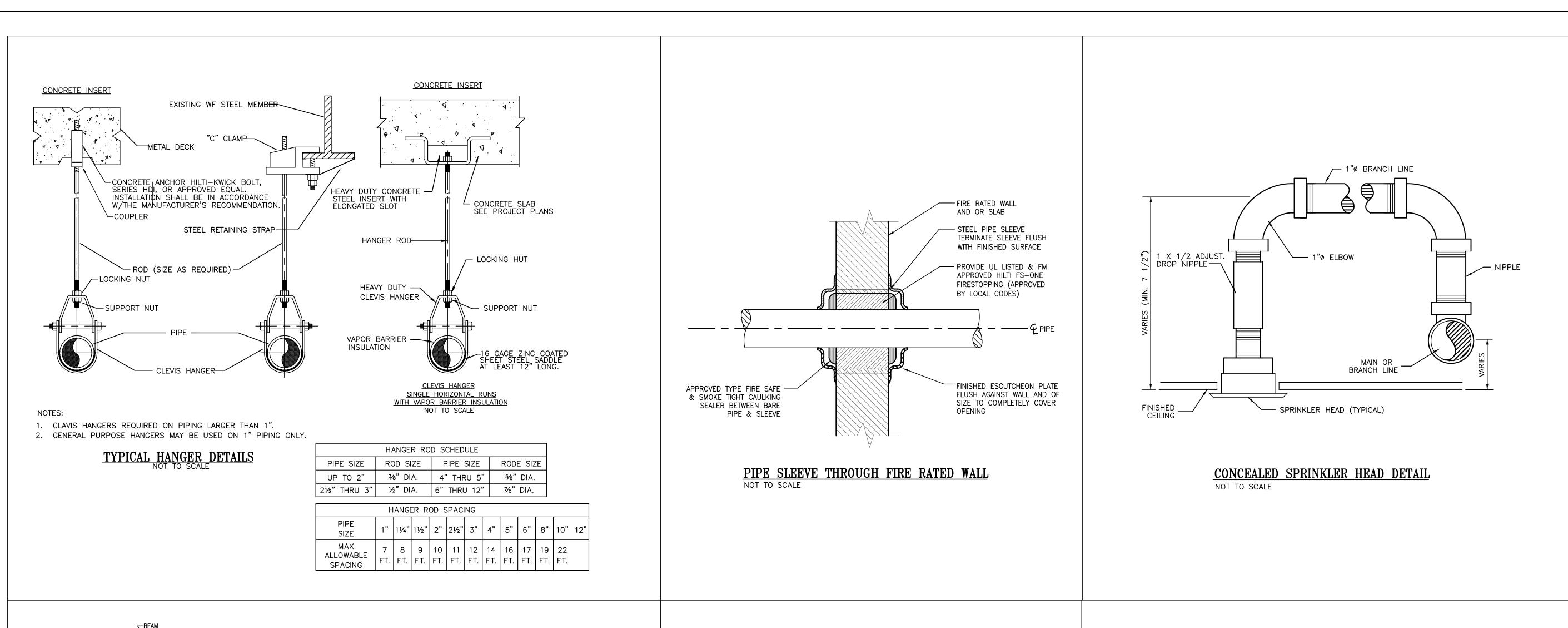
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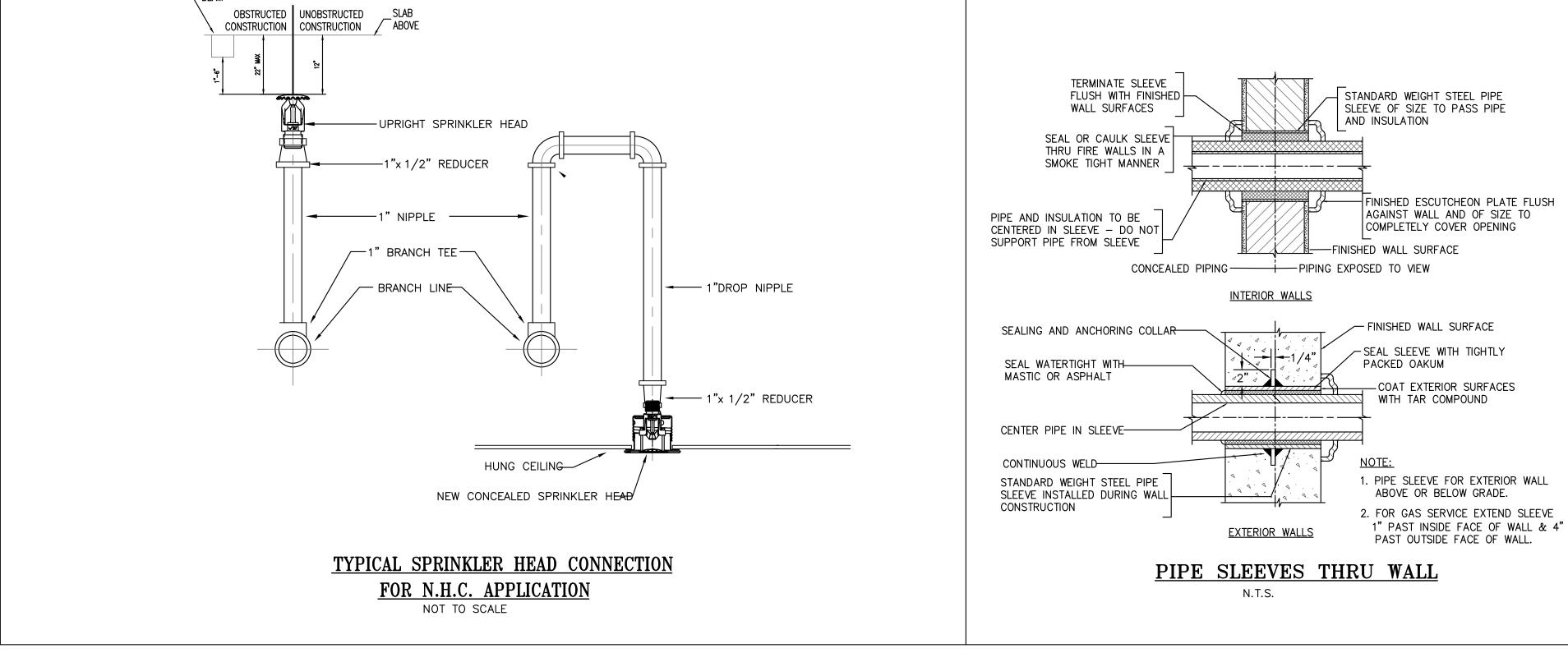
SPRINKLER FIRST FLOOR PLAN



Drawing No.:

SP-200





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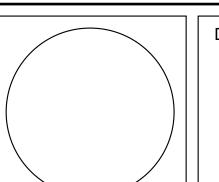
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SPRINKLER DETAILS

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# 1.1 GENERAL CONDITIONS

- A. THE WORK OF THIS SECTION SHALL CONFORM TO THE REQUIREMENTS OF THE GENERAL AND SPECIAL CONDITIONS OF THE CONTRACT AND BASED ON THE REQUIREMENTS IN THE LATEST EDITION OF AIA DOCUMENTS. THEY SHALL BE ADHERED TO WHEREVER APPLICABLE UNLESS OTHERWISE INDICATED SPECIFICALLY ON THE CONTRACT DRAWINGS WHICH ARE PART OF THIS CONTRACT.
- B. BIDDER SHALL REVIEW ALL CONSTRUCTION DOCUMENTS ASSOCIATED WITH THIS PROJECT, INCLUDING GENERAL CONSTRUCTION, DEMOLITION, ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SPRINKLER PLANS AND SPECIFICATIONS. IF A CONFLICT OCCURS IN THE BID SPECIFICATIONS AND/OR ON THE DRAWINGS, THE MORE STRINGENT SITUATION OR THE HIGHER QUANTITY SHALL APPLY.
- C. BIDDERS SHALL FAMILIARISE THEMSELVES WITH PROPOSED WORK AND WITH ALL EXISTING CONDITIONS. BEFORE SUBMITTING PROPOSALS. BIDDERS SHALL VISIT AND CAREFULLY EXAMINE AREAS AFFECTED BY PROPOSED WORK AND THE DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THIS WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BID.
- D. WITHIN THREE (3) DAYS AFTER AWARD OF CONTRACT. CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR HIS WORK, FROM START TO FINISH, AND SHALL UPDATE THIS SCHEDULE AS NECESSARY. THE SCHEDULE SHALL INDICATE THE EFFORT MADE TO MINIMIZE THE DURATION OF ALL NECESSARY INTERRUPTIONS IN OPERATION OF EXISTING SYSTEMS. ALL OVERTIME WORK AND WORK ON WEEKENDS AND HOLIDAYS MUST BE IDENTIFIED AND SCHEDULED WITH A MINIMUM OF ONE (1) WEEK IN ADVANCE, WITH THE PROJECT MANAGER. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE LOCAL BUILDING DEPARTMENT, INCLUDING AFTER HOURS VARIANCES (AHV) FOR OVERTIME WORK AND WORK ON WEEKENDS. CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK TO MINIMIZE INTERFERENCE WITH NORMAL BUILDING OPERATIONS. IF PREMIUM TIME IS REQUIRED FOR CERTAIN ITEMS OR WORK ON THIS PROJECT, THEN SUCH TIME SHALL BE INCLUDED IN THE BID. CONTRACTOR IS TO OBTAIN A COPY OF THE BUILDING RULES AND REGULATIONS FOR CONSTRUCTION WORK IN THE BUILDING PRIOR TO BID SUBMISSION.
- E. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR TO SHOW EVERY OFFSET, FITIING, OR COMPONENT. HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFIED AS NECESSARY TO MAKE THE INSTALLATION COMPLETE AND OPERATIONAL. FINAL LOCATIONS OF DIFFUSERS, GRILLES, REGISTERS. THERMOSTATS, SENSORS, SWITCHES AND ANY WALL MOUNTED DEVICES SHALL BE AS PER THE ARCHITECT. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT.
- F. ANY EQUIPMENT DETAILS AND ACCESSORIES, MATERIAL ACCESSORIES OR LABOR REQUIRED FOR A CODE COMPLIANT AND/OR COMPLETE INSTALLATION, NOT DETALIZED ON DRAWINGS OR SPECIFICATIONS, SHALL BE FURNISHED AND INSTALLED AS PART OF ORIGINAL BID.
- G. ALL CUTTING AND PATCHING FOR THE INSTALLATION OF WORK IN THIS CONTRACT SHALL BE PERFORMED BY THIS CONTRACTOR.
- H. CONTRACTOR SHALL MAINTAIN HIS WORK AREA IN AN ORGANIZED MANNER, SHALL NOT ALLOW DEBRIS TO ACCUMULATE, SHALL CLEAN UP THE SITE AFFECTED BY HIS WORK DAILY, AND SHALL NOT CAUSE INTERFERENCE WITH THE ACTIVITIES OF OTHER ENGAGED ON THIS PROJECT.
- I. OPEN ENDS OF PIPE, EQUIPMENT AND SPECIALTIES SHALL BE KEPT PROPERLY CLOSED DURING CONSTRUCTION AND INSTALLATION SO AS TO AVOID CONTAMINATIONS.
- J. CONTRACTOR SHALL CLOSELY COORDINATE ALL WORK TO MINIMIZE INTERFERENCE WITH NORMAL BUILDING OPERATIONS. IF PREMIUM TIME IS REQUIRED FOR CERTAIN ITEMS OR WORK ON THIS PROJECT, THEN SUCH TIME SHALL BE INCLUDED IN THE BID.
- K. ALL EQUIPMENT AND NEW SYSTEMS CONNECTIONS TO EXISTING BUILDING SYSTEMS AND INFRASTRUCTURE SHALL BE APPROVED BY THE BUILDING PRIOR TO INSTALLATION OF WORK.
- L. BUILDING REQUIREMENTS. (SPECIFIER: OBTAIN AND INCLUDE ANY SPECIFIC BUILDING REQUIREMENTS FOR THIS PROJECT)
- THE CONTRACTOR SHALL NOT DRILL INTO SLABS OR STRUCTURAL MEMBERS FOR THE PURPOSE OF SUPPORTING ANY LOADS, UNLESS WRITTEN APPROVAL IS OBTAINED BY THE ARCHITECT. THE CONTRACTOR SHALL REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED IN THE PERFORMANCE OF THIS CONTRACT. SEE DRAWINGS FOR DUCT HANGER DETAILS.
- M. VIBRATION CONTROL
  FREEDOM FROM VIBRATION AND NOISE IS ESSENTIAL. TAKE
  PARTICULAR CARE IN INSTALLING VIBRATION ISOLATION MOUNT AND
  HANGERS SO THAT VIBRATION FROM OPERATING EQUIPMENT IS NOT
  TRANSMITTED TO THE STRUCTURE OR OTHER WORK.
- N. SUPPLEMENTARY STEEL
  PROVIDE ALL NECESSARY SUPPLEMENTARY STEEL FOR SUPPORT OF
  EQUIPMENT, PIPING, ATTACHMENT OF HANGERS AND PIPE IN SHAFTS
  AND BETWEEN BUILDING STRUCTURAL MEMBERS. STEEL SHALL BE

PAINTED WITH ONE COAT OF RUST INHIBITING PRIMER.

D. SUPERVISION

MAINTAIN A FIELD REPRESENTATIVE ON THE PREMISES AT ALL TIMES

DURING THE COURSE OF CONSTRUCTION WORK.

- P. GUARANTEE
  ALL SYSTEMS AND COMPONENTS SHALL BE PROVIDED WITH A
  MINIMUM ONE (1) YEAR WARRANTY FROM THE TIME OF FINAL
  ACCEPTANCE OR BENEFICIAL OCCUPANCY. THE WARRANTY SHALL
  COVER ALL MATERIALS AND WORKMANSHIP. DURING THIS WARRANTY
  PERIOD, ALL DEFECTS IN MATERIALS AND WORKMANSHIP SHALL BE
  CORRECTED BY REPAIR OR REPLACEMENT WITHOUT INCURRING
  ADDITIONS TO THE CONTRACT.
- THE REPLACEMENT OR REPAIR SHALL BE PERFORMED THE SAME DAY OF NOTIFICATION IN AN EMERGENCY FASHION WHEN NOTIFIED BY THE OWNER OR AUTHORIZED REPRESENTATIVE. THE CONTRACTOR SHALL ALSO REPAIR ALL DAMAGES TO SURROUNDING WORK CAUSED BY THE FAILURE, REPAIR OR REPLACEMENT OF DEFECTIVE EQUIPMENT. ALL FINAL ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS DEMONSTRATED THAT HIS WORK FULFILLS THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND HAS FURNISHED ALL THE REQUIRED DOCUMENTATION AND APPROVALS.
- Q. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS, AS SPECIFIED HEREIN AND AS SHOWN. IF ANY CONFLICT ARISES BETWEEN THESE INSTRUCTIONS, NOTIFY THE ENGINEER IMMEDIATELY FOR GUIDANCE.
- R. PROVIDE ADEQUATE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE, OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM, AND AS REQUIRED BY ALL CODES AND REGULATED AS PER THE LOCAL BUILDING DEPARTMENT OFFICIAL.
- S. PROVIDE LABELS FOR EACH EQUIPMENT, EQUIPMENT STARTER AND CONTROL SWITCHES. EQUIPMENT SHALL BE LABELED USING DESIGNATORS IN SCHEDULES ON DRAWINGS.
- T. DO NOT RUN PIPING, OR LOCATE EQUIPMENT, IN SPACES WITH SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS. NO PIPING SHALL RUN OVER OR THROUGH COMMUNICATIONS ROOMS.
- U. PROVIDE PROTECTIVE COVERS, SKIDS, PLUGS, OR CAPS TO PROTECT EQUIPMENT AND MATERIALS FROM DAMAGE AND DETERIORATION DURING CONSTRUCTION.
- V. COORDINATE INSTALLATION OF STARTERS, CONTRACTORS, THERMAL OVERLOAD SWITCHES AND REMOTE PUSH BUTTONS.
- W. COORDINATE INSTALLATION OF ELECTRICAL POWER, INTERLOCK AND CONTROL WIRING, EXCEPT AS SPECIFIED HEREIN.
- X. START—UP AND TESTING OF EQUIPMENT SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A REPRESENTATIVE OF THE MANUFACTURER.
- Y. FACTORY PAINTED EQUIPMENT THAT HAS BEEN SCRATCHED OR MARRED SHALL BE REPAINTED TO MATCH ORIGINAL FACTORY COLOR.
- Z. ALL UN-INSULATED BLACK FERROUS METAL ITEMS EXPOSED TO SIGHT INSIDE THE BUILDING EQUIPMENT SUCH AS HANGERS AND SUPPORTS, NOT PROVIDED WITH FACTORY FINISH SHALL BE CLEANED AND PAINTED WITH ONE (1) COAT OF RUST INHIBITING PRIMER. IN ADDITION, SUCH ITEMS IN FINISHED SPACES SHALL ALSO BE PAINTED WITH TWO (2) COATS OF FINISH PAINT IN A COLOR TO MATCH ADJACENT SURFACES OR AS OTHERWISE SELECTED BY THE
- AA. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HOSTING AND RIGGING OF ALL EQUIPMENT, MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS, IN ACCORDANCE WITH ALL CITY, STATE AND FEDERAL RULES AND REGULATIONS.

## 1.2 CODES AND REGULATIONS

- A. ALL WORK SHALL BE GOVERNED BY AND INSTALLED IN COMPLIANCE
- 1. THE 2020 NEW YORK STATE BUILDING CODE.
- . NFPA 13 2016
- 3. NFPA 14 2016 4. NFPA 25 2016
- 5. THE 2020 NEW YORK STATE PLUMBING CODE.6. ALL OTHER CURRENT AND LOCAL AHJ RULES AND REGULATIONS
- B. IN GENERAL, THE SPECIFICATIONS AND THE DRAWINGS SHALL GOVERN, AND THE CODES AND STANDARDS SHALL BE CONSIDERED AS ABSOLUTE MINIMUM REQUIREMENTS.
- C. IN ADDITION TO THE REQUIREMENTS SHOWN OR SPECIFIED, COMPLY WITH THE LATEST CURRENT APPLICABLE STANDARDS, SPECIFICATIONS OR CODES PUBLISHED BY:
- ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS
  ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
  AWWA AMERICAN WATER WORKS ASSOCIATION
  ASHRAE AMERICAN SOCIETY OF HEATING REFRICERATION A
- ASHRAE

  AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING

  ASTM

  AMERICAN SOCIETY FOR TESTING MATERIALS

  NFPA

  NATIONAL FIRE PROTECTION ASSOCIATION

  UI

  UNDERWRITER'S LABORATORIES
- NFPA NATIONAL FIRE PROTECTION ASSOCIATION
  UL UNDERWRITER'S LABORATORIES
  NEMA NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
  OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- D. UNLESS THE CONTRACTOR, BEFORE SIGNING THIS CONTRACT, HAS NOTIFIED THE ARCHITECT/ENGINEER IN WRITING OF ANY ITEMS IN CONFLICT WITH CODES, THEY SHALL THEREAFTER MAKE ANY ADJUSTMENTS NECESSARY TO MEET CODES AT NO COST TO THE OWNER.

- E. CONTRACTOR SHALL INCLUDE ALL ITEMS OF LABOR AND MATERIAL REQUIRED TO COMPLY WITH SUCH STANDARDS AND CODES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WHERE QUANTITIES, SIZES OR OTHER REQUIREMENTS INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED ARE IN EXCESS OF THE STANDARD OR CODE REQUIREMENTS, THE SPECIFICATIONS AND/OR DRAWINGS SHALL
- F. CONTRACTOR IS RESPONSIBLE FOR TIMELY NOTIFICATION OF READINESS FOR SPECIAL PROGRESS AND FINAL INSPECTIONS.

#### 1.3 SCOPE OF WORK

- A. THE WORK SPECIFIED SHALL BE TO PROVIDE A COMPLETE OPERATIONAL FIRE PROTECTION SYSTEM. ALL ITEMS OF WORK, OF COST AND EXPENSE OF ANY NATURE WHATSOEVER, BELONGING WITH OR NECESSARY TO THE COMPLETION OF WORK, CALLED FOR IN THIS SPECIFICATION OR IN THE CONTRACT DOCUMENTS ARE HEREBY SPECIFIED TO BE INCLUDED IN THIS CONTRACT.
- B. WORK COVERED BY THESE SPECIFICATIONS AND ACCOMPANYING DRAWINGS CONSISTS IN FURNISHING ALL LABOR, EQUIPMENT, APPLIANCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH INSTALLATION OF A COMPLETE SYSTEM FOR THIS PROJECT AS INDICATED AND SPECIFIED. THIS WORK SHALL ALSO INCLUDE ALL INCIDENTAL ITEMS NOT ORDINARILY SPECIFIED, BUT NECESSARY FOR THE COMPLETE INSTALLATION.
- C. THE DESIGN, INSTALLATION AND TESTING OF THE PROPOSED SPRINKLER AND STANDPIPE SYSTEMS AND ASSOCIATED EQUIPMENT INCLUDING BUT NOT LIMITED TO CONTROLLERS, VALVES, AND ALARMS SHALL CONFORM TO NFPA 13, 2022 NYC BUILDING CODE, FM GLOBAL STANDARDS, AND OTHER REQUIREMENTS BY LOCAL REGULATIONS AND ORDINANCES, AND LOCAL AUTHORITIES.
- D. ALL EQUIPMENT AND MATERIALS MENTIONED IN THESE SPECIFICATIONS AND/OR SHOWN ON THE DRAWINGS SHALL BE FURNISHED, EXCEPT WHERE OTHERWISE SPECIFICALLY NOTED, COMPLETELY INSTALLED, ADJUSTED, AND LEFT IN A SAFE AND SATISFACTORY OPERATING CONDITION. ALL ACCESSORIES, APPLIANCES AND CONNECTIONS NECESSARY FOR THE OPERATION OF THE EQUIPMENT SHALL BE FURNISHED AND INSTALLED.

### 1.4 CONTRACTOR'S QUALIFICATIONS

- A. THE FIRE PROTECTION CONTRACTOR SHALL BE CERTIFIED, REGISTERED AND HAVE A MINIMUM OF FOUR (4) YEARS EXPERIENCE IN THE FIELD OF FIRE PROTECTION SYSTEM DESIGN AND INSTALLATION.
- B. THE FIRE PROTECTION CONTRACTOR SHALL FURNISH, UPON REQUEST, A LIST OF REFERENCES TO THE ARCHITECT AND ENGINEER.

#### 1.5 DRAWINGS AND SPECIFICATIONS

- A. THE COMMENCEMENT OF WORK UNDER THIS SECTION INDICATES THAT THE CONTRACTOR HAS EXAMINED AND HAS KNOWLEDGE OF THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, AND SITE WORK DRAWINGS AND SPECIFICATIONS. THE FAILURE OF THE CONTRACTOR TO ACQUAINT HIMSELF WITH ALL AVAILABLE INFORMATION SHALL NOT RELIEVE HIM OF ANY RESPONSIBILITY FOR PERFORMING HIS WORK PROPERLY.
- B. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO THE CONTRACTOR'S FAILURE TO BECOME THOROUGHLY FAMILIAR WITH ALL OF THE CONTRACT DOCUMENTS FOR THIS PROJECT, AS DESCRIBED ABOVE, AND WITH THE JOB SITE
- C. UNLESS EXPRESSLY STIPULATED, NO ADDITIONAL ALLOWANCE WILL BE MADE IN THE CONTRACTOR'S AND/OR MANUFACTURER'S FAVOR BY VIRTUE OF ERRORS, AMBIGUITIES, AND/OR OMISSIONS WHICH WERE KNOWN TO OR WHICH SHOULD HAVE BEEN KNOWN OR DISCOVERED DURING THE PREPARATION OF THE BID ESTIMATE OR DURING THE COURSE OF THE WORK AND DIRECTED TO THE ARCHITECT'S ATTENTION IN A TIMELY MANNER.
- D. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT ONE ANOTHER. ANY MATERIAL OR LABOR CALLED FOR IN ONE BUT NOT THE OTHER SHALL BE FURNISHED AS IF BOTH WERE MENTIONED IN THE SPECIFICATIONS AND SHOWN ON THE DRAWINGS. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEMS, SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.
- E. THE DRAWINGS ARE DIAGRAMMATIC AND ARE INTENDED TO DEPICT THE APPROXIMATE LOCATIONS OF EQUIPMENT, PIPING, AND APPARATUS AND SHALL NOT BE USED AS SHOP DRAWINGS. ALL DIMENSIONS, WHETHER IN FIGURES OR SCALED, SHALL BE VERIFIED IN THE FIELD.
- F. THE CONTRACTOR SHALL KEEP A RECORD OF ALL FIELD CHANGES AND CONCEALED WORK AND, UPON COMPLETION OF THE JOB, SHALL SUPPLY AS—BUILT DRAWINGS SHOWING ANY DEVIATIONS FROM THE ORIGINAL DRAWINGS.

## 1.6 ORDINANCES, PERMITS AND CODES

- A. IT SHALL BE THE CONTRACTOR'S DUTY TO PROVIDE ALL THE LABOR AND MATERIALS COVERED BY THESE SPECIFICATIONS IN CONFORMANCE WITH ALL ORDINANCES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- B. THE CONTRACTOR SHALL FILE, OBTAIN AND PAY FOR ALL PERMITS, CONNECTION AND SPECIFICATION FEES AS REQUIRED FOR THE COMPLETE INSTALLATION OF THE FIRE PROTECTION SYSTEMS.

- C. ALL WORK HEREIN SHALL CONFORM TO ALL APPLICABLE LAWS, ORDINANCES AND REGULATIONS OF THE LOCAL UTILITY COMPANIES.
- D. THE WORK SHALL BE IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE REQUIREMENTS OF FM GLOBAL AND NATIONAL FIRE PROTECTION ASSOCIATION PAMPHLET 13.
- E. CODES AND REGULATIONS REFERRED TO ARE MINIMUM STANDARDS. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS OR DRAWINGS EXCEED THOSE OF THE CODES AND REGULATIONS, THE DRAWINGS AND SPECIFICATIONS GOVERN. CONFLICTS WITH LOCAL REGULATORY CODES SHOULD BE BROUGHT TO THE ATTENTION OF RISK MANAGEMENT AND FM GLOBAL.

#### 1.7 COORDINATION AND CONFLICTS

- A. THE CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT WILL NOT INTERFERE WITH THE WORK OF OTHER TRADES. IT SHALL BE THE CONTRACTOR'S DUTY TO SEE THAT HIS WORK IS INSTALLED IN A TIMELY MANNER TO AVOID CONFLICT WITH OTHER TRADES OR OWNER'S DATE TO OCCUPY.
- B. WHERE MINOR DEVIATIONS FROM PLANS ARE REQUIRED TO CONFORM TO SPACE LIMITATIONS, SUCH CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

#### 1.8 WARRANT

- A. ALL EQUIPMENT SHALL BE STARTED, TESTED, ADJUSTED, AND PLACED IN SATISFACTORY OPERATING CONDITION BY THE CONTRACTOR. ALL EQUIPMENT SHALL BE COVERED BY WARRANTY THE DURATION OF THE MANUFACTURER'S GUARANTEE OR WARRANTY AND THE CONTRACTOR SHALL FURNISH THE OWNER WITH A COPY OF ALL MANUFACTURER'S GUARANTEES OR WARRANTIES.
- B. EQUIPMENT FURNISHED SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF OWNER'S ACCEPTANCE.

### 1.9 RECORD DOCUMENTS

- A. CONTRACTOR SHALL FURNISH, AT THE TIME OF REQUEST FOR FINAL PAYMENT, CLOSE OUT DOCUMENTS CONTAINING THE FOLLOWING INFORMATION AS CALLED FOR IN THESE SPECIFICATIONS:
  - 1. LETTER OF GUARANTEE.
- 2. OPERATION INSTRUCTIONS.
- 3. AS-BUILT DRAWINGS4. MANUFACTURER'S PARTS DATA AND SERVICE INSTRUCTIONS ON
- ALL ITEMS OF EQUIPMENT.

  5. MANUFACTURER'S GUARANTEES AND WARRANTIES.
- 6. CONTRACTOR'S MATERIAL AND TEST CERTIFICATES FOR THE SUCCESSFUL INSTALLATION, TESTING AND CERTIFICATION OF ALL SPRINKLER SYSTEMS AND UNDERGROUND MAIN SYSTEMS.

#### 1.10 STANDARDS FOR MATERIAL AND WORKMANSHIP

- A. ALL MATERIALS USED IN THIS WORK SHALL BE NEW, LISTED AND LABELED BY THE UNDERWRITERS' LABORATORIES, INC. AND/OR BE FM GLOBAL APPROVED IN ACCORDANCE WITH THE LATEST VERSION OF THE FM GLOBAL APPROVALS GUIDE. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED. THE ARCHITECT AND/OR ENGINEER SHALL JUDGE THE QUALITY OF WORKMANSHIP.
- 1.11 SHOP DRAWINGS, EQUIPMENT SUBMISSION, AND MAINTENANCE MANUALS
  - A. ALL MATERIALS AND EQUIPMENT THE CONTRACTOR PROPOSES TO FURNISH SHALL BE SUBMITTED FOR REVIEW. DATA SHALL BE COMPLETE IN ALL RESPECTS AND SHALL REFERENCE, WHERE APPLICABLE, THE UNIT SYMBOL UTILIZED ON THE DRAWINGS AND SPECIFICATIONS.
  - B. SUBMITTAL REVIEW IS CONSIDERED AS GENERAL ACCEPTANCE OF THE BASIC APPLICABILITY OF THE EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE EQUIPMENT AND/OR ALTERNATE ARRANGEMENT OF THE EQUIPMENT WITHIN A GIVEN SPACE. WHEN THE CONTRACTOR DESIRES TO USE SUBSTITUTED EQUIPMENT, HE SHALL BE RESPONSIBLE FOR PRODUCING HIS OWN COORDINATED WORK DRAWINGS, WHICH DEPICT THE SUBSTITUTED EQUIPMENT ACCOMMODATED IN THE SPACE. WHERE THE SUBSTITUTED EQUIPMENT CREATES THE NEED FOR ALTERATIONS IN ANY PORTION OF THE WORK DEPICTED IN THE CONTRACT DOCUMENTS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL OF THE AFFECTED PARTIES AND COORDINATE THESE ITEMS WITH ALL OTHER TRADES. FURTHERMORE, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSUME ANY ADDITIONAL COST TO THE CONTRACT CREATED BY THE SUBSTITUTED EQUIPMENT.
  - C. SUBSTITUTED EQUIPMENT IS CONSIDERED TO BE ANY EQUIPMENT OTHER THAN THE NAMED ITEMS IN THE SPECIFICATIONS OR ON THE DRAWINGS.
  - D. CONTRACTOR FURTHER AGREES THAT IF DEVIATIONS, DISCREPANCIES OR CONFLICTS BETWEEN SHOP DRAWINGS AND SPECIFICATIONS ARE DISCOVERED EITHER PRIOR TO OR AFTER SHOP DRAWING SUBMITTALS ARE PROCESSED BY THE ENGINEER, THE DESIGN DRAWINGS AND SPECIFICATIONS SHALL CONTROL AND SHALL BE FOLLOWED. REVIEW OF SUBMITTAL DATA SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS DUTY TO PERFORM ALL WORK AND PROVIDE ALL EQUIPMENT IN STRICT COMPLIANCE WITH THE REQUIREMENTS SET FORTH ON THE DRAWINGS HEREIN.
  - E. EACH INDIVIDUAL SUBMITTAL ITEM FOR MATERIALS AND EQUIPMENT SHALL BE MARKED TO SHOW SPECIFICATION SECTION AND PARAGRAPH NUMBER WHICH PERTAINS TO THE ITEM FAILURE TO MARK SUBMITTALS IN ACCORDANCE WITH THE ABOVE FORMAT SHALL BE CONSIDERED DUE CAUSE FOR REJECTION OF SHOP DRAWINGS.

- F. SUBMIT FOR REVIEW COMPLETE DATA AND DRAWINGS ON THE FOLLOWING ITEMS:
- COMPLETE SET OF SHOP (WORKING) DRAWINGS BEARING EVIDENCE OF REGISTRATION AND CERTIFICATION, THE UNDERWRITERS' APPROVAL TOGETHER WITH A COPY OF THE UNDERWRITERS' LETTER OF APPROVAL AND OR COMMENTS AND FM GLOBAL APPROVAL.
- VALVES.
   HANGERS.
   FITTINGS.
- 5. PIPING.
  6. SPRINKLER HEADS.

SEPARATE SHEET.

G. THE DRAWINGS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS FOR "WORKING PLANS" AS SPECIFIED IN NFPA 13 AND SHALL INCLUDE ALL APPLICABLE DATA SPECIFIED HEREIN. NO WORK SHALL BEGIN

HAVE BEEN ACCEPTED BY FM GLOBAL.

UNTIL THE DESIGN OF THE SYSTEMS AND THE VARIOUS COMPONENTS

- H. SUBMITTALS SHALL BE SUPPORTED BY DESCRIPTIVE MATERIAL, SUCH AS CATALOG CUTS, DIAGRAMS, PERFORMANCE CURVES AND CHARTS PUBLISHED BY THE MANUFACTURER, TO SHOW CONFORMANCE TO SPECIFICATION AND DRAWING REQUIREMENTS; MODEL NUMBERS ALONE WILL NOT BE ACCEPTABLE. ALL LITERATURE SHALL CLEARLY INDICATE THE SPECIFIED MODEL NUMBER, DIMENSIONS, ARRANGEMENT, RATING AND CHARACTERISTICS OF THE PROPOSED EQUIPMENT. CAPACITIES AND RATINGS SHALL BE BASED ON CONDITIONS INDICATED OR SPECIFIED HEREIN. ANY DEVIATIONS FROM SPECIFIED EQUIPMENT (PARTICULARLY THOSE WHICH REQUIRE COORDINATION WITH OTHER TRADES) SHALL BE CLEARLY NOTED IN A CONCISE LIST ON A
- SUBMITTALS AND SHOP DRAWINGS SHALL NOT CONTAIN THE AVCON ENGINEERING NAME OR LOGO, NOR SHALL THEY CONTAIN THE AVCON ENGINEERING SEAL AND SIGNATURE. THE SHOP DRAWINGS SHALL NOT BE COPIES OF AVCON'S WORK. A CONTRACTOR CAN USE ELEMENTS OF ENGINEER'S DRAWINGS IF HE OBTAINS ELECTRONIC FILES FROM AVCON.
- IN PREPARATION OF SHOP OR RECORD DRAWINGS, CONTRACTOR MAY, AT HIS OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD OR DXF FORMAT FROM THE ENGINEER FOR A FEE UP TO \$350 FOR A DRAWING SET UP TO 15 SHEETS AND \$20 PER SHEET FOR EACH ADDITIONAL SHEET.
- CONTRACTOR SHALL CONTACT THE ARCHITECT AND ENGINEER FOR WRITTEN AUTHORIZATION. CONTRACTOR SHALL SEND A REQUEST WITH AN ATTACHED CHECK MADE PAYABLE TO AVCON ENGINEERING, PC. CONTRACTOR SHALL INDICATE THE DESIRED SHIPPING METHOD AND DRAWING FORMAT IN THE REQUEST. IN ADDITION TO PAYMENT, ARCHITECT'S WRITTEN AUTHORIZATION AND ENGINEER'S RELEASE AGREEMENT FORM MUST BE RECEIVED BEFORE ELECTRONIC DRAWING FILES WILL BE SENT.
- THE ENGINEER'S CHECKING AND SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS.

### 1.12 DEMOLITION

- A. CONTRACTOR TO REVIEW AND COORDINATE WITH BUILDING MANAGEMENT THE COMPLETE EXTEND OF DEMOLITION WORK INDICATED ON DRAWINGS AND NECESSARY TO INSTALL THE NEW SYSTEMS.
- OF THIS PROJECT ARE REMAIN IN SERVICE.

  C. ALL EXISTING EQUIPMENT AND COMPONENTS OF BUILDING SERVICE

B. CONTRACTOR IS RESPONSIBLE THAT ALL EXISTING SYSTEMS OUTSIDE

- SYSTEMS THAT ARE SECURED TO EXISTING WALLS, CEILING TO BE DEMOLISHED, SHOULD BE RELOCATED.
- D. ALL DEMOLISHED EQUIPMENT AND SYSTEM COMPONENTS SHALL BE REMOVED AND PROPERLY DISPOSED.
- E. ALL DEMOLITION WORK SHALL BE PERFORMED WITH MINIMUM NOISE, DUST AND DISTURBANCE.

### PART 2 – GENERAL

THE GENERAL PROVISIONS OF THE CONTRACT AND REQUIREMENTS APPLY TO THE WORK SPECIFIED IN THIS SECTION.

### 2.1 SUMMARY

- A. SECTION INCLUDES:
- PIPES, FITTINGS, AND SPECIALTIES.
   FIRE-PROTECTION VALVES.
- 3. SPRINKLERS.
- ALARM DEVICES.
   PRESSURE GAGES.

A. WET-PIPE SPRINKLER SYSTEM:

INCLUDED WHERE INDICATED.

### 2.2 SYSTEM DESCRIPTIONS

AUTOMATIC SPRINKLERS ATTACHED TO PIPING CONTAINING WATER AND CONNECTED TO WATER SUPPLY THROUGH ALARM VALVE. WATER DISCHARGES IMMEDIATELY FROM SPRINKLERS WHEN THEY ARE ACTIVATED. SPRINKLERS

OPEN WHEN HEAT MELTS THE FUSIBLE LINK OR A GLASS BULB BREAKS AT A

SPECIFIED CRITICAL PRE-DETERMINED TEMPERATURE. HOSE CONNECTIONS ARE

# 2.3 PERFORMANCE REQUIREMENTS

- A. STANDARD-PRESSURE PIPING SYSTEM COMPONENT: LISTED FOR 175-PSIG MINIMUM WORKING PRESSURE.
- B. DELEGATED DESIGN: DESIGN SPRINKLER SYSTEM(S), INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS BY A QUALIFIED PROFESSIONAL ENGINEER, USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED.

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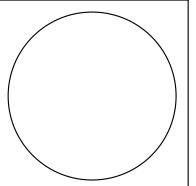
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SPRINKLER SPECIFICATIONS



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#### PART 3 - PRODUCTS

#### 3.1 PIPING MATERIALS

- A. COMPLY WITH REQUIREMENTS IN "PIPING SCHEDULE" ARTICLE FOR APPLICATIONS OF PIPE, TUBE, AND FITTING MATERIALS, AND FOR JOINING METHODS FOR SPECIFIC SERVICES, SERVICE LOCATIONS, AND PIPE SIZES.
- B. NO ALLIED XL THIN WALL OR POLYBUTYLENE PIPE SHALL BE ACCEPTED ON THIS
- C. FLEXIBLE BRAIDED HOSE: IS ACCEPTABLE WHERE ALLOWED BY CODE. FLEX HEAD SERIES 2000, 304 STAINLESS STEEL, FOR SPRINKLER DROPS UP TO A MAXIMUM OF SIX FEET IN LENGTH. USE WITH DIELECTRIC FITTINGS

#### 3.2 STEEL PIPE AND FITTINGS CLASSIFICATION OF PIPING

A. THE FOLLOWING DESIGNATION OF PIPING SYSTEM CONSTRUCTION IS EMPLOYED THROUGHOUT THIS SECTION OF THE SPECIFICATIONS:

1. TYPE I PIPING: 2. TYPE II PIPING: 3/4" TO 2", BLACK STEEL SCHEDULE 40. 2-1/2" AND LARGER, BLACK STEEL LIGHTWALL

3. TYPE III PIPING:

SCHEDULE 10. BLACK STEEL, EXTRA HEAVY, FOR 250 PSI MAX.

4. FLEXHEAD FLEXIBLE BRAIDED HOSE IS ACCEPTABLE FOR SPRINKLER HEAD DROPS NOT TO EXCEED SIX FEET.

### TYPE I PIPING

A. PIPING: SCHEDULE 40 BLACK STEEL CONFORMING TO ANSI/ASTM A120 AND ASTM A795.

#### B. FITTINGS:

- 1. UNLESS OTHERWISE SPECIFIED, FITTINGS SHALL BE CAST IRON SPRINKLER FITTINGS AS LISTED IN NFPA 13, TABLE 3-13.1.1 OR 3-13.1.2 AND FM GLOBAL DATA SHEET 2-0 AND DESIGNED TO WITHSTAND WORKING PRESSURE NOT LESS THAN 175 PSI.
- 2. SCREWED FITTINGS SHALL BE 175 LB. BLACK CAST IRON SCREWED TYPE CONFORMING TO ANSI B16, 4 AND CAST IRON PIPE FLANGES AND FITTINGS CONFORMING TO ANSI B16.3.

#### TYPE II PIPING

- A. PIPING: SCHEDULE 10 BLACK STEEL CONFORMING TO ASTM A-135.
- B. FITTINGS: GROOVED FITTINGS AS PER NFPA 13, STANDARDS 3-12.3. WELDED OUTLETS MAY BE USED WHEN CONFORMING TO NFPA 13, STANDARDS 3-12.2.11 AND FM GLOBAL DATA SHEET 2-8N.

### TYPE III PIPING

- A. PIPING: SCHEDULE 40 BLACK STEEL CONFORMING TO ANSI A-53.
- B. FITTINGS:
- 1. FLANGED FITTINGS SHALL BE EXTRA HEAVY PATTERN 250 LB. CAST IRON CONFORMING TO ANSI B16.1 AS PER NFPA 13, TABLE 3- 13.1.10 AND FM GLOBAL DATA SHEET 2-8N.
- 2. WELDED FLANGES SHALL BE 300 LB. FORGED STEEL CONFORMING TO ASTM

### 3.3 PIPING JOINING MATERIALS

- A. PIPE-FLANGE GASKET MATERIALS: AWWA C110, RUBBER, FLAT FACE, 1/8 INCH OR ASME B16.21, NONMETALLIC AND ASBESTOS FREE.
- 1. CLASS 125, CAST-IRON FLAT-FACE FLANGES: FULL-FACE GASKETS.
- B. METAL, PIPE-FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.
- C. WELDING FILLER METALS: COMPLY WITH AWS D10.12M/D10.12 FOR WELDING MATERIALS APPROPRIATE FOR WALL THICKNESS AND CHEMICAL ANALYSIS OF STEEL PIPE BEING WELDED.
- E. SPARE SPRINKLER CABINET: CABINET SHALL CONSIST OF A MINIMUM 20-GAUGE STEEL, RED ENAMELED BOX WITH HINGED DOOR AND CATCH. CABINET SHALL BE STOCKED WITH SPARE SPRINKLERS AND THEIR RESPECTIVE WRENCHES AS PER NFPA NO. 13 STANDARDS.
- 1. GRINNELL 2. AUTOMATIC SPRINKLER

MODEL F740 CORP. OF AMERICA SYMBOL NO. 38-04 (06) (12) (21)

- F. SPRINKLER HEAD GUARD: GUARD SHALL BE A WELDED WIRE GAUGE, CONSISTING OF NOT LESS THAN (6) SIX BARS, THAT CAN BE SECURED TO SPRINKLER HEAD. FINISH SHALL BE RED ENAMEL.
- 1. POTTER-ROEMER FIG. 6160 2. EQUALS BY AUTOMATIC SPRINKLER CORP. OF AMERICA OR GRINNELL.
- G. SPRINKLER HEADS SHALL BE U.L. LISTED AND FM GLOBAL APPROVED FOR FIRE PROTECTION SERVICE.
- H. TEMPERATURE RATINGS OF SPRINKLERS THROUGHOUT JOB SHALL COMPLY WITH NFPA 13 2016 TABLE 6.2.5.1 AND FM GLOBAL DATA SHEET 2-8N IF APPLICABLE.
- I. A MINIMUM SUPPLY OF 12 SPARE SPRINKLER HEADS OF EACH TYPE PROVIDED SHALL BE READILY AVAILABLE, STORED IN A CABINET IN THE SPRINKLER ROOM.
- J. SPRINKLER HEADS SHALL BE SYMMETRICALLY LOCATED AS REQUIRED TO PROVIDE PROPER COVERAGE AND TO AVOID INTERFERENCE WITH LIGHTS, DIFFUSERS, GRILLES, OR OTHER CEILING MOUNTED EQUIPMENT. WHERE SPRINKLER HEADS ARE LOCATED IN A CEILING TILE, THE HEAD PATTERN SHALL BE SYMMETRICAL AND THE HEAD PATTERN SHALL BEAR THE SAME RELATIONSHIP TO THE GENERAL CEILING PATTERN, AND LIGHTS THROUGHOUT EACH AREA. HEADS LOCATED IN CEILING TILE SHALL BE CENTERED IN TILE.

#### 3.9 HANGERS

- A. ALL HANGERS AND SUPPORTS ASSOCIATED WITH THE FIRE PROTECTION SYSTEM SHALL COMPLY WITH NFPA 13 REQUIREMENTS AND FM GLOBAL DATA SHEET 2-0. CONTRACTOR SHALL CONSULT ARCHITECT AND STRUCTURAL ENGINEER FOR PERMISSION TO USE POWER DRIVEN STUDS, AND FURNISH FIRE PROTECTION CONSULTING ENGINEER WITH WRITTEN VERIFICATION OF SUCH PERMISSION.
- B. ALL PIPING SHALL BE SUPPORTED FROM BEAMS AND/OR JOISTS. DO NOT ATTACH ANYTHING DIRECTLY TO THE DECK OR PIPING, DUCTWORK OR CONDUIT ABOVE. PROVIDE SUPPLEMENTAL STEEL AS REQUIRED.
- C. PROVIDE SEISMIC BRACING AND SUPPORT FOR FIRE PROTECTION PIPING AND EQUIPMENT. (SPECIFIER: VERIFY IF SEISMIC REQUIREMENTS FOR THIS PROJECT ARE APPLICABLE)

#### 3.10 SLEEVES

- A. PROVIDE STANDARD WEIGHT STEEL PIPE SLEEVES AT ALL POINTS WHERE PIPING PASSES THROUGH WALLS, FLOORS, AND CEILINGS EXCEPT WHERE OTHERWISE
- B. USE #16 U.S. GAUGE GALVANIZED STEEL SLEEVES THROUGH WALLS AND THROUGH FLOORS IN CONCEALED PIPE CHASES WHERE CONCRETE THICKNESS IS 4" OR LESS.
- C. SPACE SLEEVES SUFFICIENT DISTANCE FROM ADJACENT WALLS AND OTHER SLEEVE SO THAT FLOOR, WALL AND CEILING PLATES MAY BE INSTALLED WITHOUT CUTTING

#### 3.11 FLOOR AND CEILING PLATES

A. WHERE EXPOSED PIPING PASSES THROUGH FLOORS, WALLS AND CEILINGS, PROVIDE ESCUTCHEONS. ESCUTCHEONS SHALL BE AS MANUFACTURED BY F&S OR GRINNELL. FIRESTOP OPENINGS AS REQUIRED.

#### 4.3 PIPES AND FITTINGS

- A. PIPING SHALL BE INSTALLED TO BE CLEAR OF ANY AND ALL CONDUITS, LIGHTING FIXTURES, DUCTWORK AND OTHER PIPING. CONTRACTOR SHALL COORDINATE WITH CONTRACTORS OF OTHER TRADES TO FACILITATE THE ERECTION OF THE SYSTEM.
- B. ALL PIPING SHALL BE RUN STRAIGHT AND PARALLEL TO BUILDING CONSTRUCTION. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS SPECIFIED HEREIN AND SHOWN ON PLANS.
- C. ALL PIPE SHALL BE CLEANED, WELDS COATED, AND LEFT READY FOR PAINTING.
- D. IN ERECTION PIPES, FRICTION WRENCHES AND VISES SHALL BE USED EXCLUSIVELY AND ANY PIPE CUT DENTED OR OTHERWISE DAMAGED SHALL BE REPLACED BY THIS CONTRACTOR.
- E. AFTER CUTTING, ALL PIPES SHALL BE REAMED OUT FULL BORE AND BEFORE ERECTION. THE INSIDE OF PIPES SHALL BE THOROUGHLY CLEANED.
- F. FLEXIBLE SPRINKLER HOSE FITTINGS AND ITS ANCHORING COMPONENTS, INTENDED FOR USE IN INSTALLATIONS CONNECTING THE SPRINKLER PIPING TO SPRINKLERS, IF ALLOWED BY LOCAL CODE, SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13 2016 SEC: 9.2.1.3.3.
- 1. MANUFACTURER: BRADY, SETON OR APPROVED EQUAL.
- 2. MATERIAL AND THICKNESS: STAINLESS STEEL TYPE 302 OF 18 GAUGE THICK, WITH PREDRILLED HOLES FOR ATTACHMENT HARDWARE.
- 3. MINIMUM LABEL SIZE: LENGTH AND WIDTH VARY FOR REQUIRED LABEL CONTENT, BUT NOT LESS THAN 2-1/2 BY 3/4 INCH.
- 4. MINIMUM LETTER SIZE: 1/4 INCH FOR NAME OF UNITS IF VIEWING DISTANCE IS LESS THAN 24 INCHES. 1/2 INCH FOR VIEWING DISTANCES UP TO 72 INCHES. AND PROPORTIONATELY LARGER LETTERING FOR GREATER VIEWING DISTANCES. INCLUDE SECONDARY LETTERING TWO-THIRDS TO THREE-FOURTHS THE SIZE OF
- 5. FASTENERS: STAINLESS-STEEL RIVETS OR SELF-TAPPING SCREWS. 6. ADHESIVE: CONTACT-TYPE PERMANENT ADHESIVE, COMPATIBLE WITH LABEL AND WITH SUBSTRATE.

### 4.9 OPERATION AND MAINTENANCE INSTRUCTIONS

- A. OPERATING AND MAINTENANCE INSTRUCTIONS, PRINTED AND BOUND IN HARDCOVER, THREE-RING, LOOSE-LEAF NOTEBOOKS SHALL BE PROVIDED FOR THE ITEMS LISTED BELOW; 5 SEPARATE COPIES OF EACH SHALL BE PROVIDED. EACH NOTEBOOK SHALL BE PROVIDED WITH AN IDENTIFYING LABEL UNDER A CLEAR PLASTIC COVER SHIELD ON THE FRONT COVER, WHICH SHALL IDENTIFY THE PROJECT ARCHITECT, CONTRACTOR, AND DATE.
- 1. SPRINKLER CONTROLS AND EQUIPMENT. 2. ALARM VALVES AND ASSOCIATED EQUIPMENT. 3. FM GLOBAL DATA SHEET 2-0 AND NFPA 13A, INSPECTIONS, TESTING AND MAINTENANCE OF SPRINKLER SYSTEMS. 4. VALVE CHARTS AND RISER DIAGRAMS.
- B. PRIOR TO FINAL INSPECTIONS AND AT A TIME DESIGNATED BY THE ARCHITECT. THE SERVICES OF A COMPETENT REPRESENTATIVE SHALL BE PROVIDED BY THE CONTRACTOR FOR A PERIOD OF NOT LESS THAN ONE DAY TO INSTRUCT THE OWNER IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.
- C. SPRINKLER CONTRACTOR SHALL COORDINATE ALL TAMPER AND FLOW SWITCH LOCATIONS WITH THE ELECTRICAL AND FIRE ALARM CONTRACTOR FOR INTERFACE.

### 4.10 GUARANTEE

A. THE COMPONENTS OF THE FIRE PROTECTION SYSTEM(S) FURNISHED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE THEREOF, EITHER FOR BENEFICIAL USE OR FINAL ACCEPTANCE, WHICHEVER IS EARLIER, AGAINST DEFECTIVE MATERIALS, DESIGN AND WORKMANSHIP. UPON RECEIPT OF NOTICE FROM THE ARCHITECT OF FAILURE OF ANY PART OF THE EQUIPMENT DURING THE GUARANTEE PERIOD, THE AFFECTED PART OR PARTS SHALL BE REPLACED PROMPTLY; THIS INCLUDE REMOVING THE DEFECTIVE PART OR PARTS AND REPLACING AND INSTALLING THE NEW PART OR PARTS AT THE EXPENSE OF THE CONTRACTOR.

#### 4.11 CERTIFICATES

- A. CONTRACTOR'S MATERIAL AND TEST CERTIFICATE SHALL BE COMPLETED BY THE FIRE PROTECTION CONTRACTOR AND SUBMITTED TO THE OWNER, ARCHITECT, ENGINEER, FM GLOBAL AND FIRE MARSHALL PRIOR TO ACCEPTANCE OF ANY AND ALL FIRE PROTECTION SYSTEMS.
- B. A CERTIFICATE OR LETTER OF ACCEPTANCE FROM FM GLOBAL SHALL BE OBTAINED BY FIRE PROTECTION CONTRACTOR AND TURNED OVER TO THE OWNER, ARCHITECT AND ENGINEER.

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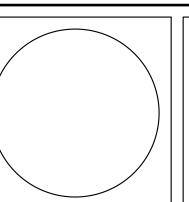
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