

KEY TO SYMBOLS

	EXISTING SPRINKLER PIPING TO REMAIN		PRESSURE REDUCING VALVE
	EXISTING SPRINKLER PIPING TO BE REMOVED		GLOBE VALVE
	NEW SPRINKLER PIPING		PIV, POST INDICATOR VALVE
	PIPE TURNING UP		FIRE HOSE RACK
	PIPE TURNING DOWN		HYDRANT, ONE HOSE OUTLET
	BOTTOM PIPE TAP		PUBLIC HYDRANT, TWO HOSE OUTLETS
	TOP PIPE TAP		POST INDICATOR AND VALVE
	CAPPED PIPE		KEY-OPERATED VALVE
	PIPE BREAK		VALVE IN PIT (OS & Y SHOWN)
	NEW CONCEALED PENDENT SPRINKLER HEAD		NON-INDICATING VALVE
	NEW SEMI-CONCEALED PENDENT SPRINKLER HEAD		FIRE PUMP WITH DRIVES
	NEW UPRIGHT SPRINKLER HEAD		DELUGE VALVE
	EXISTING SPRINKLER HEAD TO BE REMOVED		ALARM CHECK VALVE
	EXISTING SPRINKLER HEAD TO REMAIN		DRY PIPE VALVE
	EXISTING SPRINKLER RELOCATED		DRY PIPE VALVE WITH QUICK OPENING DEVICE
	NEW SIDEWALL SPRINKLER HEAD		PRESSURE DETECTOR/ SWITCH
	DRY PENDENT HEAD		WATER MOTOR ALARM
	DRY UPRIGHT HEAD		ELECTRIC ALARM BELL
	DRY SIDEWALL HEAD		AUTOMATICALLY ACTUATED WET EXTINGUISHING
	OS & Y CONTROL VALVE		AUTOMATICALLY ACTUATED DRY EXTINGUISHING
	WATER FLOW SWITCH (FLOW ALARM)		TAMPER SWITCH
	PIPE RISER		FLOW SWITCH
	HYDRAULIC REFERENCE POINTS		TIE INTO EXISTING PIPING
	SIAMESE FIRE DEPARTMENT CONNECTION		
	FIRE ALARM CONTROL PANEL		
	FIRE HOSE CABINET		
	HOSE REEL		
	FIRE DEPARTMENT VALVE		
	PRESSURE GAUGE		
	CHECK VALVE		
	GATE VALVE		
	BUTTERFLY VALVE		
	BALL VALVE		

ABBREVIATIONS

ACV	ALARM CHECK VALVE	GAL	GALLON
AFF	ABOVE FINISHED FLOOR	GPM	GALLONS PER MINUTE
ALM	ALARM	GEN	GENERATOR
AFA	AUTOMATIC FIRE ALARM	HC	HOSE CABINET
ASKLR	AUTOMATIC SPRINKLERS	HCONN	HOSE CONNECTION
ATS	AUTOMATIC TRANSFER SWITCH	HYD	HYDRANT
AUTO	AUTOMATIC	IN	INCH, INCHES
AVE	AVENUE	JP	JOCKEY PUMP
BM	BEAM	NC	NORMALLY CLOSED
BOP	BOTTOM OF PIPE	NO	NORMALLY OPEN
BLDG	BUILDING	NIC	NOT IN CONTRACT
CI	CAST IRON	#	NUMBER
CONC	CONCRETE	OS & Y	OUTSIDE SCREW & YOKE VALVE
COD	CONTINUED ON DRAWING	PIV	POST INDICATOR VALVE
DCDV	DOUBLE CHECK DETECTOR VALVE	PRESS	PRESSURE
DCV	DOUBLE CHECK VALVE	PSI	UNIT OF PRESSURE (POUNDS PER SQUARE INCH)
DIA, Ø	DIAMETER	RPM	REVOLUTIONS PER MINUTE
DOM	DOMESTIC	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
DH	DOUBLE HYDRANT		
DN	DOWN	RF	ROOF
DPV	DRY PIPE VALVE	RM	ROOM
EMD	ELECTRIC MOTOR DRIVEN	SPKLR	SPRINKLER
ELEV	ELEVATOR	SPHD	SPRINKLER HEAD
EXIST	EXISTING	SPR	SPRINKLER LINE
FCA	FLOOR CONTROL ASSEMBLY	ST	STREET
FT	FEET	TK	TANK
FDPG	FIRE DEPARTMENT PUMPER CONNECTION	TS	TAMPER SWITCH
FP	FIRE PUMP	WFS	WATER FLOW SWITCH
FSP	FIRE STAND PIPE	v	VOLTS
FLR	FLOOR		

SPRINKLER NOTES

- THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED AND SHALL CONFORM TO NFPA 13.
- THE INSTALLATION, COMPONENTS, SIZING, SPACING, LOCATION, POSITION AND TYPE OF SYSTEM SHALL CONFORM TO NFPA 13.
- ALL EQUIPMENT SHALL BE LISTED OR APPROVED FOR FIRE PROTECTION SERVICE.
- SPRINKLERS ARE TO BE PROTECTED AGAINST FREEZING AND INJURY. PROPERTY OWNER IS TO MAINTAIN A MINIMUM OF 40°F IN ALL AREAS OF WET PIPING.
- INSPECTION AND TEST OF SPRINKLER SYSTEM SHALL BE CONDUCTED AS SPECIFIED IN NFPA 13.
- THE OCCUPANCY OF THE AREAS ARE TO BE SPRINKLERED IN ACCORDANCE WITH NFPA AND AS SPECIFIED ON PLANS.
- WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS SPECIFIED IN NFPA 13.
- PIPING SPECIFICATIONS, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DRAINAGE, FITTINGS, VALVES, HANGERS, GUARDS AND SHIELDS SHALL BE IN ACCORDANCE WITH NFPA 13.
- STOCK OF EXTRA SPRINKLER HEADS WILL BE FURNISHED AS PER NFPA 13 (REQUIRED FOR EACH TEMPERATURE RATING.)
- SPACING, LOCATION AND POSITION OF SPRINKLER HEADS WILL BE IN ACCORDANCE WITH NFPA 13.
- 1" TO 12" MINIMUM CLEARANCE OF SPRINKLER DEFLECTOR TO CEILING AS PER NFPA 13.
- DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA 13.
- DRAINAGE TO CONFORM TO SECTION 4-6.3.
- ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY NFPA 13.
- ALL VALVE CONNECTIONS TO WATER SUPPLIES AND IN THE SUPPLY TO SPRINKLERS SHALL BE APPROVED 0.5&Y OR APPROVED INDICATOR TYPE.
- DRAIN VALVES AND TEST VALVES SHALL BE APPROVED TYPE AS PER NFPA 13.
- HANGERS SHALL BE OF A TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED IN ACCORDANCE WITH NFPA 13.
- PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTION CONSISTING OF CAPPED NIPPLE 4" LONG ON THE END OF THE CROSS MAIN AS PER NFPA 13.
- SPRINKLER HEADS SHALL BE AN APPROVED TYPE AS PER NFPA 13.
- TEMPERATURE RATINGS SHALL COMPLY WITH NFPA 13.
- 18" MINIMUM CLEARANCE TO BELOW SPRINKLER DEFLECTOR AS PER NFPA 13.
- UNDERGROUND PIPING IS TO BE SUPPORTED WITH RODDING, BLOCKING AND CLAMPING AS PER NFPA 24 REQUIREMENTS.
- CURB BOX VALVE IS TO BE PROVIDED AS PER NFPA.
- INTERCONNECTION OF ALARM DEVICES TO BUILDING FIRE ALARM SYSTEM SHALL BE BY OTHERS.
- ALL REQUIRED SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA.
- ALL PIPE TO BE AS FOLLOWS:
 - MAINS 2½" & LARGER TO BE BLACK STEEL SCHEDULE 10.
 - BRANCHES 2" & SMALLER TO BE BLACK STEEL SCHEDULE 40.
- ALL FITTINGS TO BE AS FOLLOWS:
 - MAINS 2½" & LARGER TO BE GROOVED TYPE FITTING.
 - BRANCHES 2" & SMALLER TO BE CL THREADED.
- CONTRACTOR'S MATERIAL AND TEST CERTIFICATED FOR ABOVE GROUND AND (WHERE APPLICABLE) UNDER GROUND PIPE" SHALL BE SUBMITTED TO THE FIRE MARSHALL PRIOR TO APPROVAL OF THE INSTALLATION.
- FIRE PROTECTION EQUIPMENT, ROOMS CONTAINING CONTROLS FOR AIR-CONDITIONING SYSTEMS, SPRINKLER RISERS, AND SPRINKLER VALVES SHALL BE IDENTIFIED FOR USE OF THE FIRE DEPARTMENT WITH APPROVED SIGNS OF DURABLE MATERIAL PERMANENTLY INSTALLED AND READILY VISIBLE.
- CONTRACTOR SHALL PROVIDE HYDRAULIC CALCULATIONS AS PER THE FOLLOWING:
 - THE CONTRACTOR WILL SIZE THE SYSTEM BY PERFORMING FULL HYDRAULIC CALCULATIONS FOR THE SPRINKLER SYSTEM. THE SYSTEM SHALL BE INSTALLED TO UTILIZE 90% OR LESS OF AVAILABLE PRESSURE AT DESIGN FLOW. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED TO THE ARCHITECT, OWNER'S INSURANCE AGENCY AND THE AUTHORITY HAVING JURISDICTION FOR APPROVAL BEFORE DOING THE WORK.
 - DESIGN CRITERIA:
 - OFFICE/Common Areas – LIGHT HAZARD OCCUPANCY, DENSITY– 0.10 GPM/SQ.FT.AREA– MOST REMOTE 1500 SQ.FT. (WET) COVERAGE– NOT TO EXCEED 225 SQ.FT. PER HEAD
 - MECHANICAL/UTILITY ROOMS – ORDINARY HAZARD OCCUPANCY – GROUP 1, DENSITY– 0.15 GPM/SQ.FT.AREA– MOST REMOTE 1500 SQ.FT. (WET) COVERAGE– NOT TO EXCEED 130 SQ.FT. PER HEAD
 - PARKING GARAGE – ORDINARY HAZARD OCCUPANCY – GROUP 1, DENSITY – 0.15 GPM/SQ.FT. AREA – MOST REMOTE 1,500 SQ.FT. X 30% INCREASE = 1,950 SQ.FT. (DRY) COVERAGE – NOT TO EXCEED 130 SQ.FT. PER HEAD.
 - ADD A WATER ALLOWANCE FOR INSIDE AND OUTSIDE HOSE STREAMS TO THE SPRINKLER REQUIREMENTS AT THE CONNECTION TO THE DISTRIBUTION MAIN IN ACCORDANCE WITH NFPA REQUIREMENTS.
 - CONTRACTOR SHALL OBTAIN RECENT HYDRANT FLOW TEST INFORMATION AT THE HYDRANT NEAREST TO THE NEW SPRINKLER SERVICE MAIN CONNECTION TO PROVIDE THE FOLLOWING:
 - STATIC PRESSURE–PSI, RESIDUAL PRESSURE–PSI, FLOW–GPM, DATE–HYDRANT NUMBER.–
 - CONTRACTOR'S DESIGN SHALL MEET ALL OF THE REQUIREMENTS ABOVE AND SHALL CONFORM TO ALL OF THE HYDRAULIC DESIGN DATA OBTAINED FROM THE HYDRANT FLOW TEST.
 - PIPE SIZES SHOWN ON THE DESIGN DRAWINGS ARE ESTIMATES AND ARE SUBJECT TO REASONABLE MODIFICATION PROVIDING THAT HYDRAULIC CALCULATIONS ARE ACCEPTABLE AND MEET THE REQUIREMENTS OF NFPA.

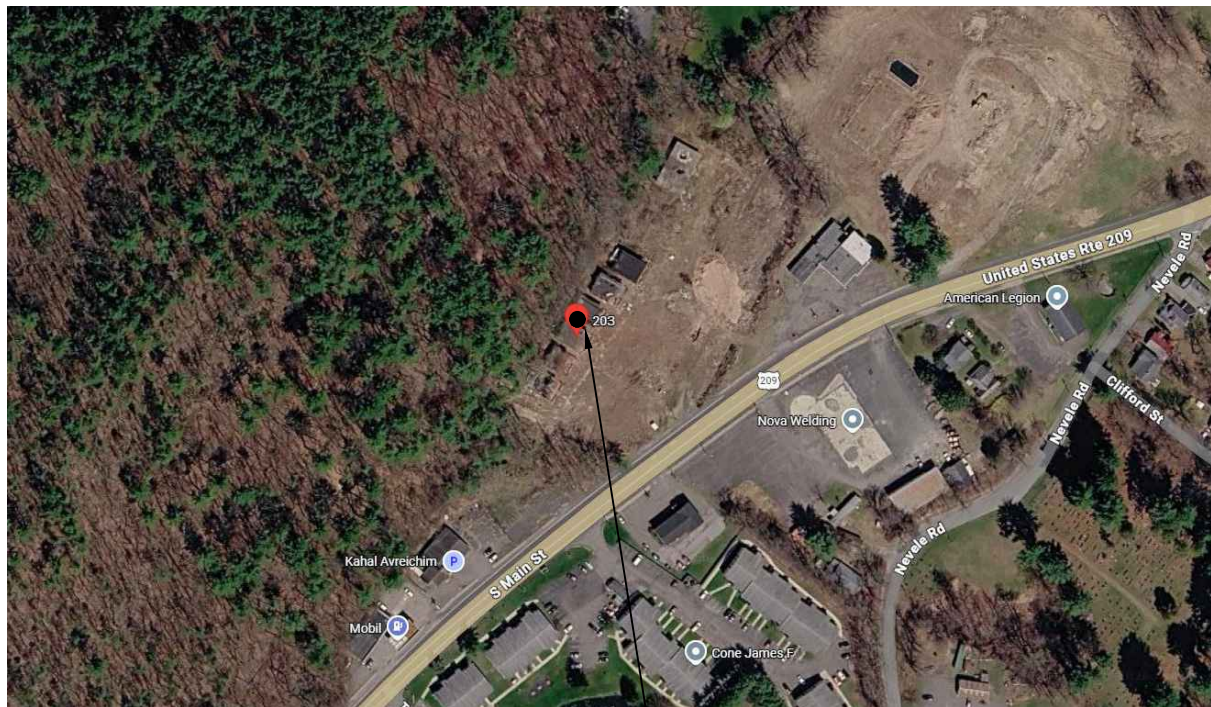
FIRE SPRINKLER GENERAL DESCRIPTION OF WORK SCOPE

RUN NEW COMBINED SPRINKLER/DOMESTIC WATER SERVICE TO BUILDING. INSTALL NEW BACKFLOW DEVICE (RPPA) ON NEW MAIN SPRINKLER SERVICE ONCE IT ENTERS THE BUILDING. INSTALL NEW BRANCH PIPING AND SPRINKLER HEADS FOR ENTIRE BUILDING.

CONTRACTOR SHALL COORDINATE WITH BUILDING SUPER ANY SYSTEM SHUT DOWN AND PROVIDE CERTIFIED FIRE WATCH FOR THE TIME THE SYSTEM SHALL BE SHUT DOWN. SYSTEM SHALL BE SHUT DOWN FOR TIE IN ONLY AND RE-ENERGIZED BEFORE END OF WORK DAY.

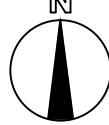
CONSTRUCTION GENERAL NOTES

- THE SPRINKLER CONTRACTOR WILL BE HELD RESPONSIBLE TO HAVE VISITED AND EXAMINED THE PREMISES BEFORE SUBMITTING HIS PROPOSAL, IN ORDER TO UNDERSTAND THE EXISTING CONDITIONS RELATED TO HIS WORK.
- ALL MATERIALS AND APPARATUS SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK BUILDING CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION AND NFPA.
- PROCUREMENT OF ALL PERMITS AND CERTIFICATES FOR THE INSTALLATION OF THESE SYSTEMS SHALL BE PERFORMED IN ACCORDANCE WITH ALL THE RULES AND REGULATIONS OF THE NEW YORK STATE BUILDING CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
- THE SPRINKLER CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES AND ALL EXISTING CONDITIONS, AND PROVIDE OFFSETS IN PIPING SYSTEMS TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT.
- PROVIDE COMPLETE SPRINKLER COVERAGE IN ALL AREAS, REFER TO AND COORDINATE WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS AND DETAILS. SPRINKLER HEADS SHALL BE CENTERED IN TILE OR ALIGNED WITH LIGHTS, DIFFUSERS, ETC. ANY SPRINKLER HEAD, MODIFICATIONS REQUIRED TO MEET THE DESIGN CRITERIA MUST BE PROVIDED AND APPROVED BY THE ARCHITECT.
- PROVIDE SPRINKLER HEAD COMPLETE WITH PIPING, FITTINGS, HANGERS WITH ATTACHMENT TO EXISTING BUILDING STRUCTURE.
- EXISTING PIPING DAMAGES AS A RESULT OF PERFORMING THE WORK OF THIS CONTRACT SHALL BE REPAIRED OR REPLACED AS REQUIRED WITH MATERIAL AND FINISH TO MATCH EXISTING.
- ALL AREAS WITHOUT HUNG CEILINGS, ELECTRICAL ROOMS, MECHANICAL ROOMS, STORAGE AREAS ETC., PROVIDE WITH EXPOSED UPRIGHT OR PENDANT SPRINKLER HEADS WITH SPRINKLER GUARDS IN AREAS SUBJECT TO ACCIDENTAL DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE COVERAGE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE BUILDING CODE AND NFPA STANDARDS, LOCAL FIRE DEPARTMENT AND THE DESIGN CRITERIA.
- LOCATION AND TYPE OF SPRINKLER HEADS IN THE AREAS WITHOUT HUNG CEILINGS SHALL BE FULLY COORDINATED WITH THE EXPOSED STRUCTURAL (BEAMS, COLUMNS, ETC.) ALL OF THE ABOVE ELEMENTS WHICH IMPACT THE SPRINKLER SYSTEM MUST BE INDICATED ON THE SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- BEFORE COMMENCEMENT OF ANY WORK, COMPLETE AND DETAILS WORKING PLANS SHALL HAVE BEEN SUBMITTED AND APPROVED BY THE BUILDING MANAGEMENT.
- PROVIDE SPRINKLER HEADS ABOVE AND BELOW ALL DUCTS OR CLUSTERS OF DUCTS, PIPES OR CONDUITS OVER 48" WIDE.
- PLACE ALL PENDANT TYPE SPRINKLER HEADS IN CENTER OF TILE OR CENTERED WITH LIGHTS, DIFFUSERS OR SIMILAR ELEMENTS OF CEILING.
- ALL FLOOR PENETRATIONS, CORE DRILLING, ETC. SHALL BE APPROVED BY LANDLORD.
- BASE BUILDING ARCHITECT AND STRUCTURAL ENGINEERS SHALL REVIEW METHOD OF SUPPORTING SPRINKLER PIPING.
- ANY PIPING ABOVE ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC) MUST BE INSTALLED AT LEAST 6 FT ABOVE AND PROVIDED WITH 2" DRIP PANS AND LEAK DETECTORS.



LOCATION MAP

SCALE: N.T.S.



NOTES:

- THIS PORTION OF THE PROJECT SHALL BE CONSTRUCTED WITH SWAY BRACING AS PER NFPA 13.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13-2022.

DRAWING NO.

- FS-0.1
- FS-1.1
- FS-1.2
- FS-1.3
- FS-5.1
- FS-5.2
- FS-6.1
- FS-7.1

TITLE

- FIRE SPRINKLER SYMBOLS, ABBREVIATIONS AND GENERAL NOTES
- FIRE SPRINKLER FIRST FLOOR PLAN
- FIRE SPRINKLER MEZZANINE PLAN
- FIRE SPRINKLER SECOND FLOOR PLAN
- FIRE SPRINKLER DETAILS
- FIRE SPRINKLER DETAILS
- FIRE SPRINKLER RISER DIAGRAM
- FIRE SPRINKLER SPECIFICATIONS

SPRINKLER DESIGN CRITERIA

- THE SPRINKLER SYSTEM IN THIS BUILDING SHALL BE IN ACCORDANCE WITH THE 2025 NYS BUILDING CODE AND NFPA-13 2022.
- OCCUPANCY CRITERIA
 - LIGHT HAZARD – OFFICE AREAS AND CORRIDORS, BATHROOMS DENSITY 0.1 GPM/ SQ. FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ. FT. MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQ. FT.
 - ORDINARY HAZARD GROUP 1 – MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS. DENSITY 0.15 GPM PER SQ. FT OVER MOST HYDRAULICALLY REMOTE 1500 SQ. FT. MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ. FT.
- HYDRAULICALLY CALCULATED SYSTEMS SHALL MEET THE FOLLOWING CRITERIA:
 - EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS WITH HEADS IN CENTER OF TILES.
 - EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA STANDARD NO. 13, 2022 AS REFERENCED BY THE NYS BUILDING CODE. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH SCHEDULE 40 PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA 13 SHALL BE INCREASED BY 30%
 - DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THE HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA STANDARD NO. 13, AS REFERENCED BY NYS BUILDING CODE.
 - HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
- FLOW TEST DATA
 - CONTRACTOR SHALL OBTAIN FLOW DATA INDICATING RESIDUAL PRESSURES ASSOCIATED WITH BUILDING SYSTEM AND SUBMIT DATA WITH HYDRAULIC CALCULATIONS
 - THESE HYDRAULIC CALCULATIONS ALONG WITH PUMP OR WATER FLOW TEST ARE TO BE SUBMITTED FOR APPROVAL TO THE ENGINEER AND TO THE INSURANCE UNDERWRITER. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE LOCATION OF THE PUMP OR WATER FLOW TEST.
- CONSTRUCTION MAY ONLY BEGIN WHEN APPROVALS ARE GRANTED.
- RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 10% PRESSURE SAFETY MARGIN, I.E., EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.
- WATER SUPPLY INFORMATION SHALL BE LISTED ON CALCULATIONS AND CURRENT AVAILABLE PRESSURE AT FLOOR. SEE RISER DIAGRAM.

DATE ISSUED

06-22-2026 ISSUED FOR 100%DD/50%CD REVIEW
07-20-2026 ISSUED FOR 90%CD REVIEW
09-17-2026 ISSUED FOR GENERAL CONSTRUCTION BID AS SINGLE PRIME CONTRACT INCLUDING ALL TRADES

SEAL



SENDLEWSKI ARCHITECTS, P.C.

ARCHITECTS - PLANNERS

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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

FIRE SPRINKLER
SYMBOLS, ABBREVIATIONS
AND GENERAL NOTES

PROJECT No. 2501

EMTEC 7611

CHECKED BY: MF/APS

DRAWING:

FS-0.1

"It is a violation of the State Education Law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration."
This plan is approved only for the work indicated on the application specification sheet, all other matters are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

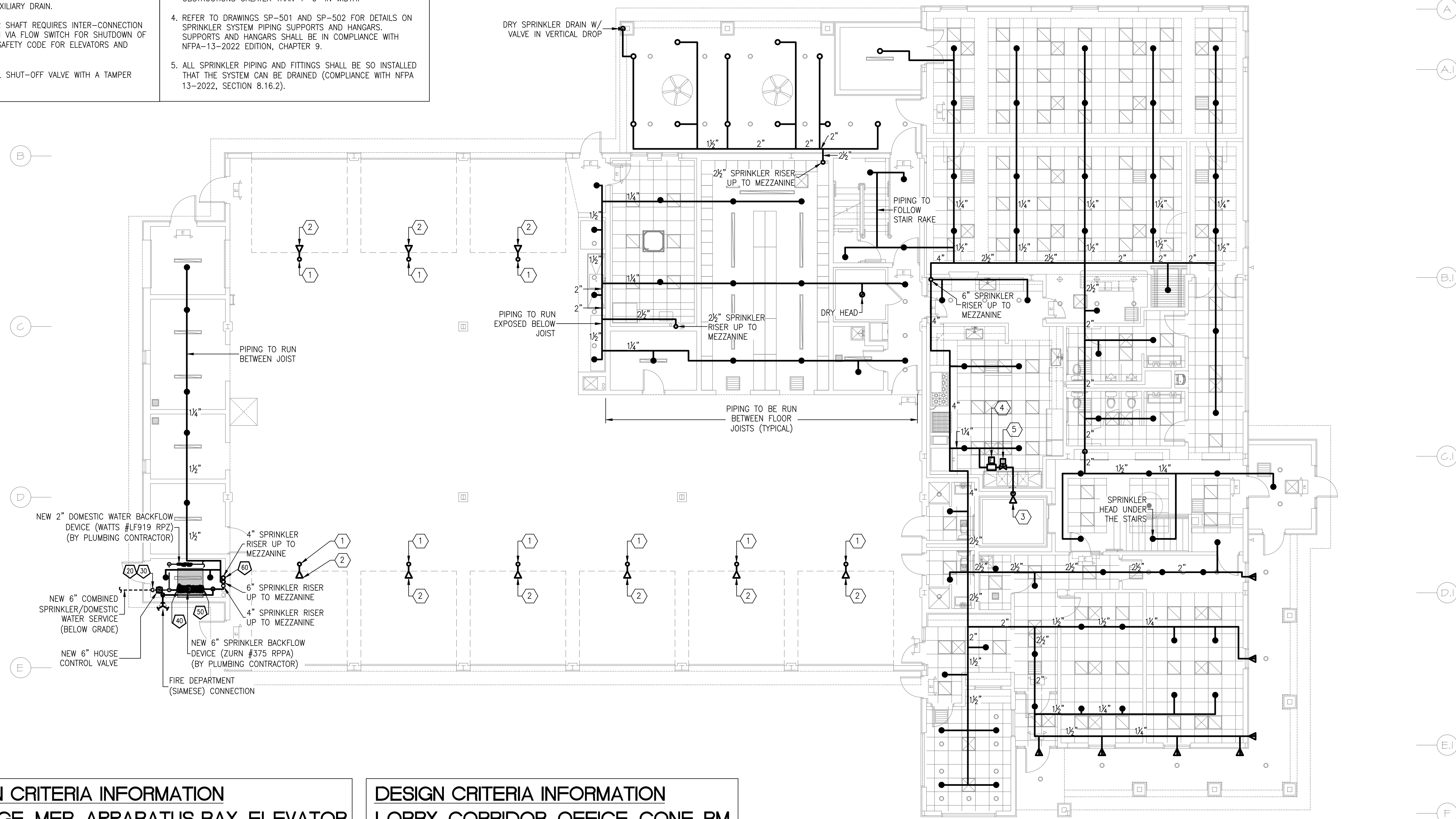
EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS

X KEY NOTES

1. 1" SPRINKLER LINE UP TO MEZZANINE LEVEL.
2. FURNISH AND INSTALL NEW SIDEWALL SPRINKLER HEAD FOR COVERAGE WHEN OVERHEAD DOOR IS OPEN. SIDEWALL HEAD TO HAVE EXTENDED COVERAGE.
3. FURNISH AND INSTALL NEW SIDEWALL SPRINKLER HEAD IN ELEVATOR SHAFT. SPRINKLER HEAD TO BE MAXIMUM 2 FEET FROM BOTTOM OF ELEVATOR PIT FLOOR WITH AUXILIARY DRAIN.
4. SPRINKLER HEAD IN ELEVATOR SHAFT REQUIRES INTER-CONNECTION WITH THE FIRE ALARM SYSTEM VIA FLOW SWITCH FOR SHUTDOWN OF ELEVATOR PER ASME A17.1 "SAFETY CODE FOR ELEVATORS AND ESCALATORS".
5. FURNISH AND INSTALL MANUAL SHUT-OFF VALVE WITH A TAMPER SWITCH.

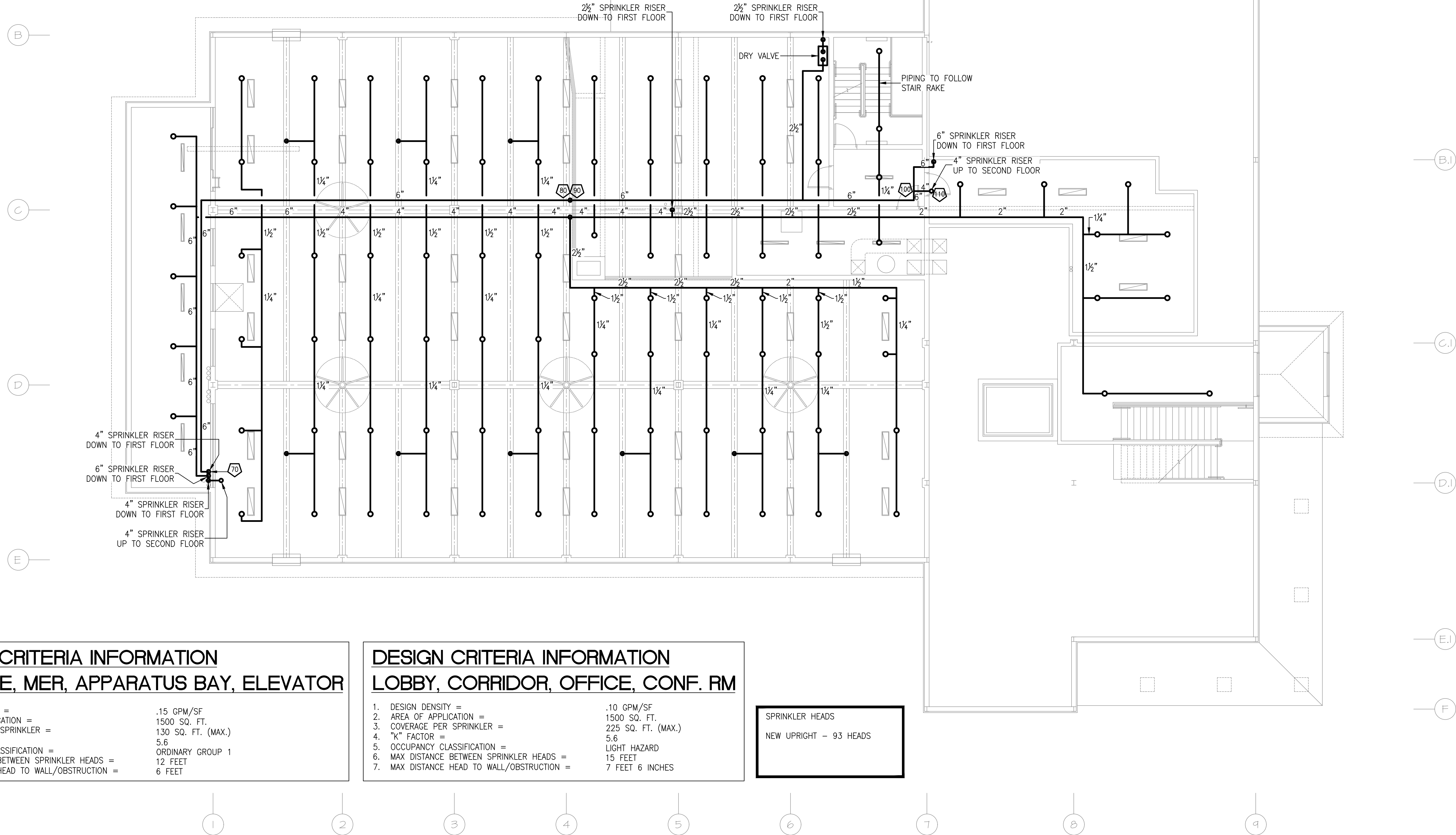
SHEET NOTES

1. UNLESS OTHERWISE NOTED, NEW SPRINKLER PIPING TO BE 1" IN SIZE.
2. PROVIDE SPRINKLER HEADS WITH A WIRE CAGE GUARD WHEN LOCATED AT AN ELEVATION BELOW 7'-6".
3. PROVIDE 10 ADDITIONAL HEADS FOR UNDERNEATH OBSTRUCTIONS GREATER THAN 4'-0" IN WIDTH.
4. REFER TO DRAWINGS SP-501 AND SP-502 FOR DETAILS ON SPRINKLER SYSTEM PIPING SUPPORTS AND HANGARS. SUPPORTS AND HANGARS SHALL BE IN COMPLIANCE WITH NFPA-13-2022 EDITION, CHAPTER 9.
5. ALL SPRINKLER PIPING AND FITTINGS SHALL BE SO INSTALLED THAT THE SYSTEM CAN BE DRAINED (COMPLIANCE WITH NFPA 13-2022, SECTION 8.16.2).



SHEET NOTES

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DESIGN CRITERIA INFORMATION
STORAGE, MER, APPARATUS BAY, ELEVATOR

- | | |
|--|--------------------|
| 1. DESIGN DENSITY = | .15 GPM/SF |
| 2. AREA OF APPLICATION = | 1500 SQ. FT. |
| 3. COVERAGE PER SPRINKLER = | 130 SQ. FT. (MAX.) |
| 4. "K" FACTOR = | 5.6 |
| 5. OCCUPANCY CLASSIFICATION = | ORDINARY GROUP 1 |
| 6. MAX DISTANCE BETWEEN SPRINKLER HEADS = | 12 FEET |
| 7. MAX DISTANCE HEAD TO WALL/OBSTRUCTION = | 6 FEET |

DESIGN CRITERIA INFORMATION
LOBBY, CORRIDOR, OFFICE, CONF. RM

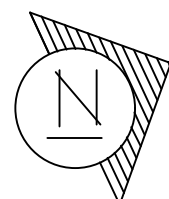
- | | |
|--|--------------------|
| 1. DESIGN DENSITY = | .10 GPM/SF |
| 2. AREA OF APPLICATION = | 1500 SQ. FT. |
| 3. COVERAGE PER SPRINKLER = | 225 SQ. FT. (MAX.) |
| 4. "K" FACTOR = | 5.6 |
| 5. OCCUPANCY CLASSIFICATION = | LIGHT HAZARD |
| 6. MAX DISTANCE BETWEEN SPRINKLER HEADS = | 15 FEET |
| 7. MAX DISTANCE HEAD TO WALL/OBSTRUCTION = | 7 FEET 6 INCHES |

SPRINKLER HEADS
NEW UPRIGHT - 93 HEADS

MEZZANINE FLOOR PLAN (PARTIAL)

SCALE: 1/8" = 1'-0"

MEZZ. SQUARE FOOTAGE = 1,482



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SEAL



SENDLEWSKI ARCHITECTS, P.C.

ARCHITECTS - PLANNERS

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

FIRE SPRINKLER
MEZZANINE
PLAN

PROJECT No. 2501
EMTEC-7611

CHECKED BY: MF/APS

DRAWING:

FS-1.2

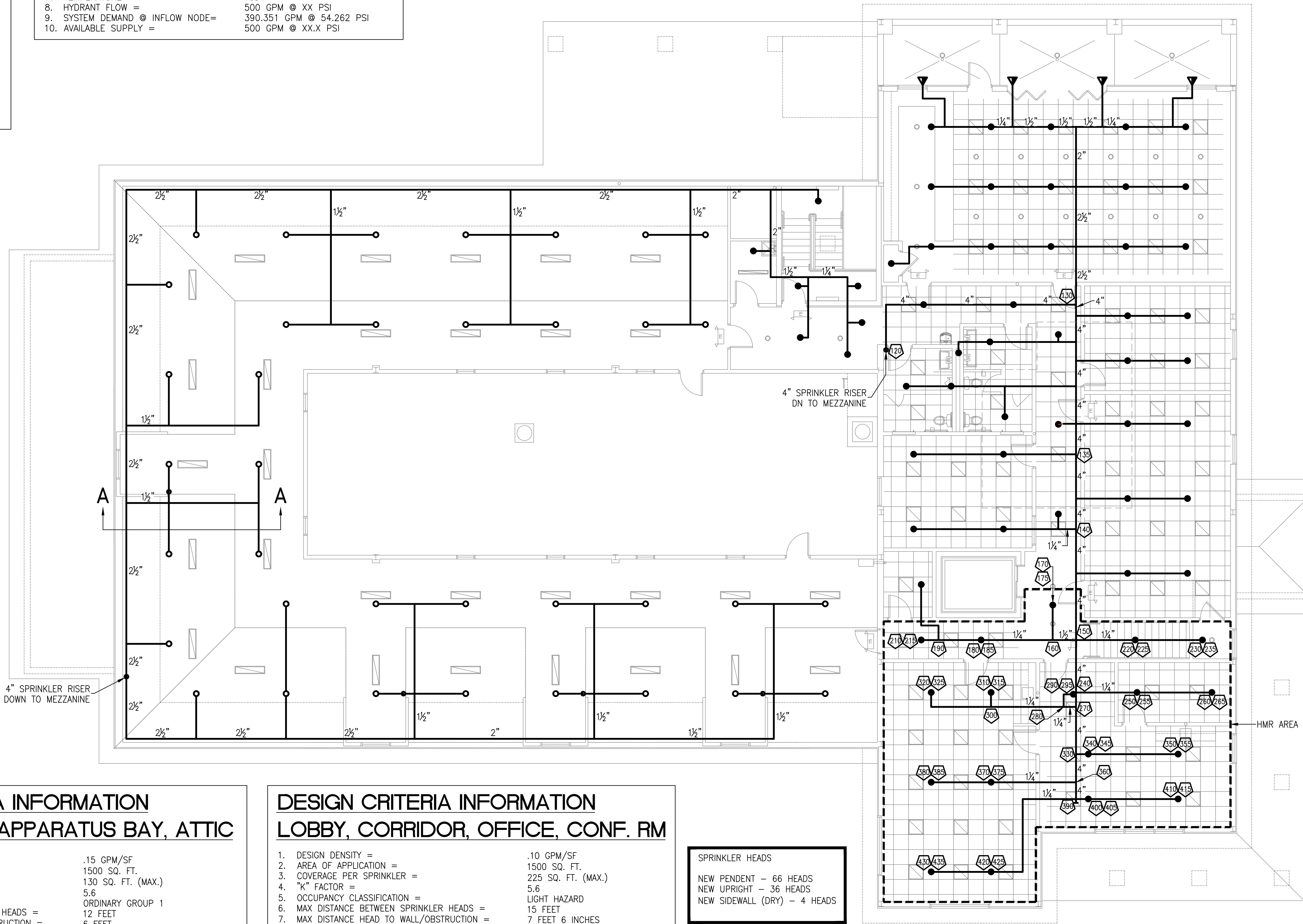
EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS

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3. PROVIDE 10 ADDITIONAL HEADS FOR UNDERNEATH OBSTRUCTIONS GREATER THAN 4'-0" IN WIDTH.
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5. ALL SPRINKLER PIPING AND FITTINGS SHALL BE SO INSTALLED THAT THE SYSTEM CAN BE DRAINED (COMPLIANCE WITH NFPA 13-2022, SECTION 8.16.2).

HYDRAULIC CALCULATION - HMR AREA #1 (WET)

1. DESIGN DENSITY = 0.10 GPM/SF
2. AREA OF APPLICATION = 900 SQ. FT.
3. COVERAGE PER SPRINKLER = 109 SQ. FT. (MAX)
4. NUMBER OF SPRINKLERS CALCULATED = 17
5. "K" FACTOR = 5.6
6. OCCUPANCY CLASSIFICATION = LIGHT HAZARD
7. TEMPERATURE = 165°F
8. HYDRANT FLOW = 500 GPM @ XX PSI
9. SYSTEM DEMAND @ INFLOW NODE= 390.351 GPM @ 54.262 PSI
10. AVAILABLE SUPPLY = 500 GPM @ XX.X PSI



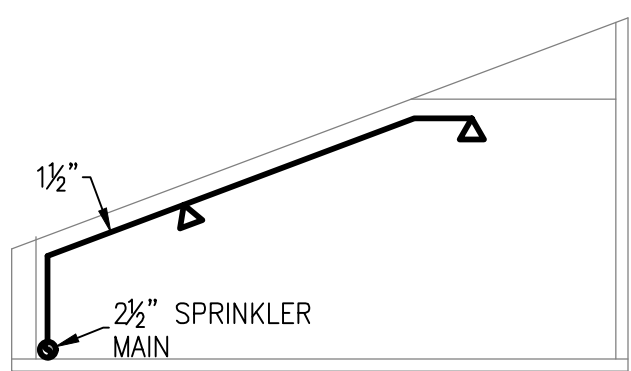
DESIGN CRITERIA INFORMATION
STORAGE, MER, APPARATUS BAY, ATTIC

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2. AREA OF APPLICATION = 1500 SQ. FT.
3. COVERAGE PER SPRINKLER = 130 SQ. FT. (MAX.)
4. "K" FACTOR = 5.6
5. OCCUPANCY CLASSIFICATION = ORDINARY GROUP 1
6. MAX DISTANCE BETWEEN SPRINKLER HEADS = 12 FEET
7. MAX DISTANCE HEAD TO WALL/OBSTRUCTION = 6 FEET

DESIGN CRITERIA INFORMATION
LOBBY, CORRIDOR, OFFICE, CONF. RM

1. DESIGN DENSITY = .10 GPM/SF
2. AREA OF APPLICATION = 1500 SQ. FT.
3. COVERAGE PER SPRINKLER = 225 SQ. FT. (MAX.)
4. "K" FACTOR = 5.6
5. OCCUPANCY CLASSIFICATION = LIGHT HAZARD
6. MAX DISTANCE BETWEEN SPRINKLER HEADS = 15 FEET
7. MAX DISTANCE HEAD TO WALL/OBSTRUCTION = 7 FEET 6 INCHES

SPRINKLER HEADS
NEW PENDENT - 66 HEADS
NEW UPRIGHT - 36 HEADS
NEW SIDEWALL (DRY) - 4 HEADS



SECTION 'A-A'

NTS



SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"
SQUARE FOOTAGE = 5643
(NOT INCL. FLAT ROOF & ATTIC AREAS)



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SEAL



SENDEWSKI ARCHITECTS, P.C.

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PROPOSED NEW FACILITY
ELLENVILLE FIRE DISTRICT
203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

FIRE SPRINKLER
SECOND FLOOR
PLAN

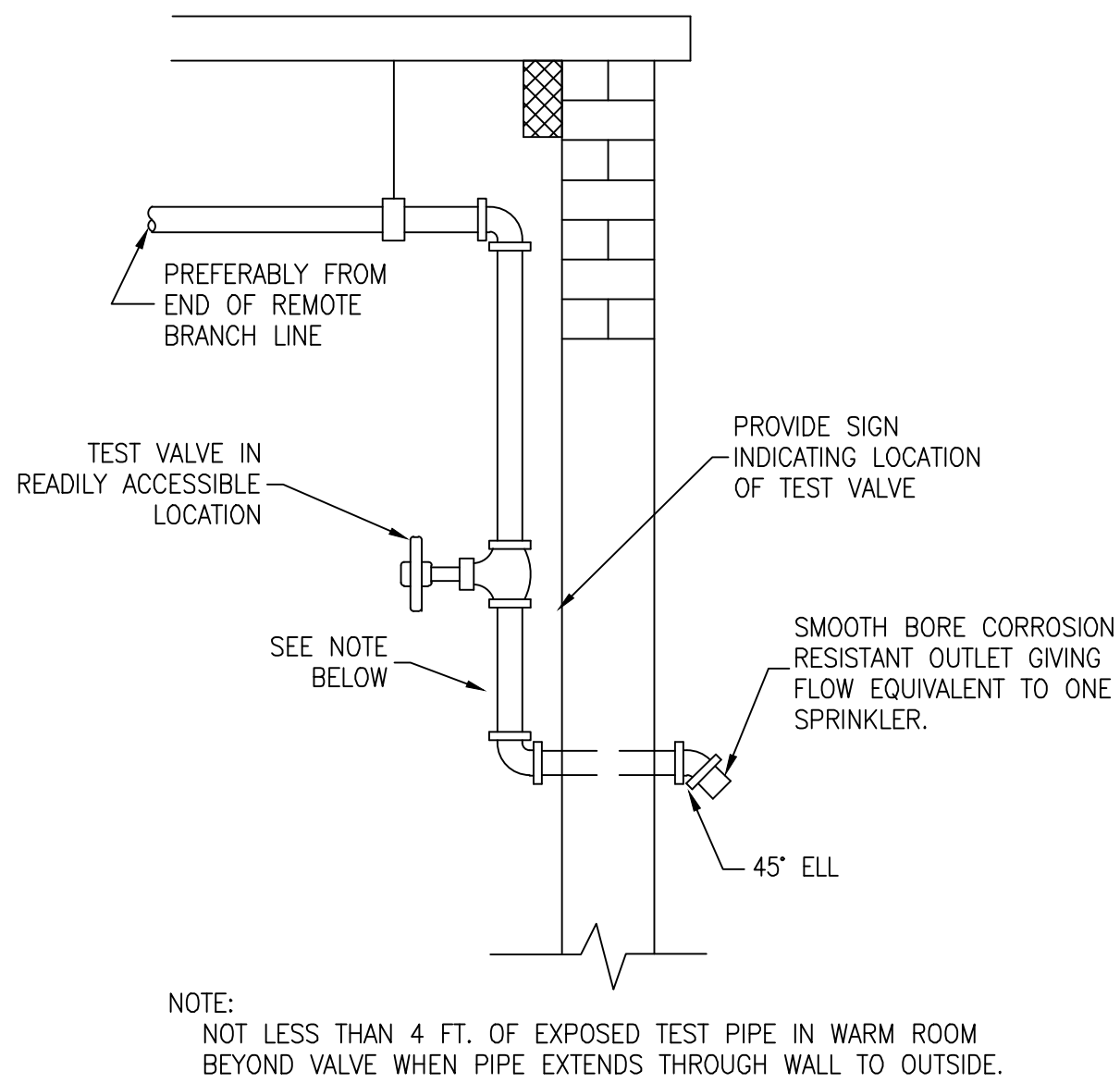
PROJECT No. 2501
EMTEC: 7611

CHECKED BY: MF/APS

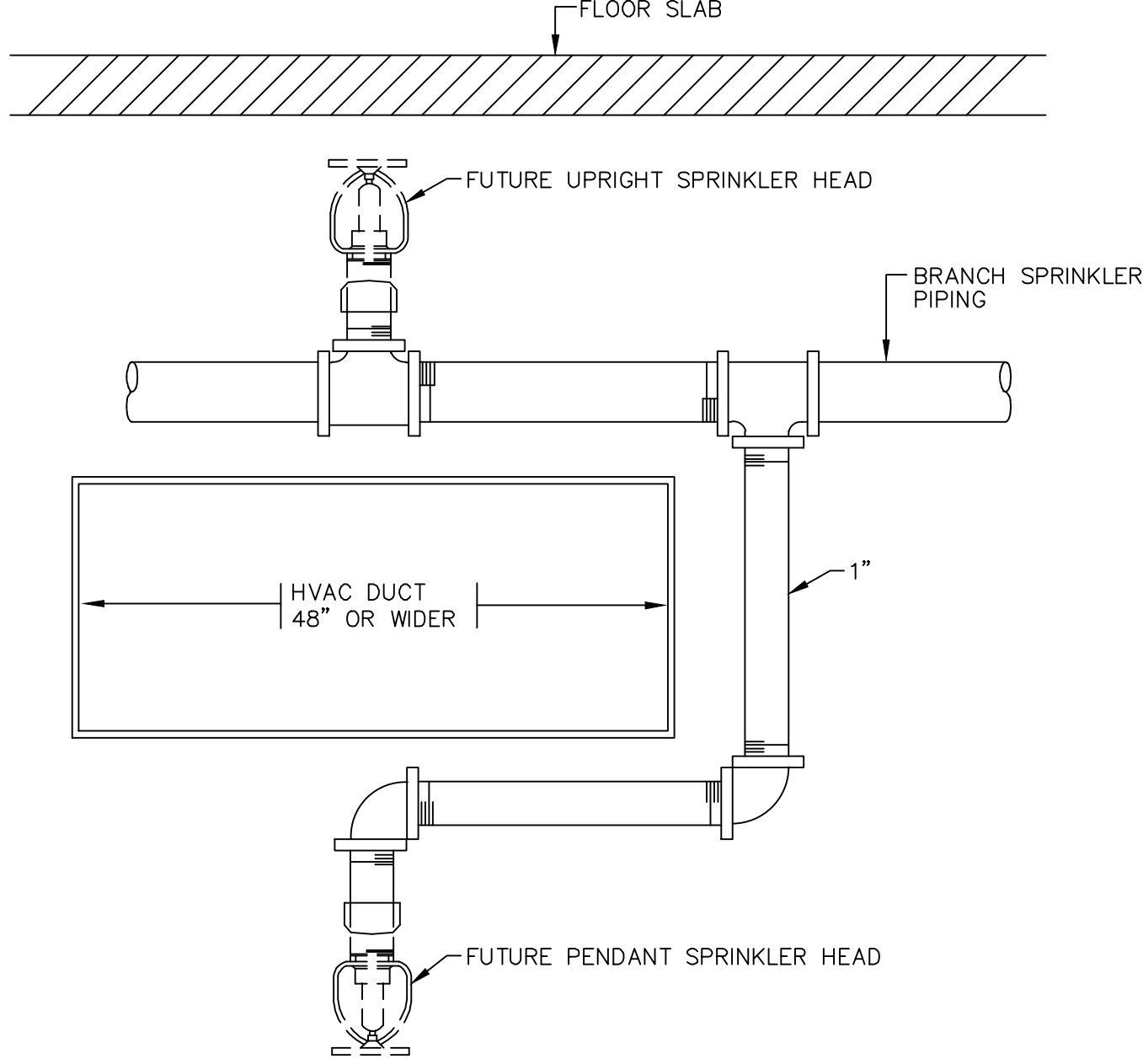
DRAWING:

FS-1.3

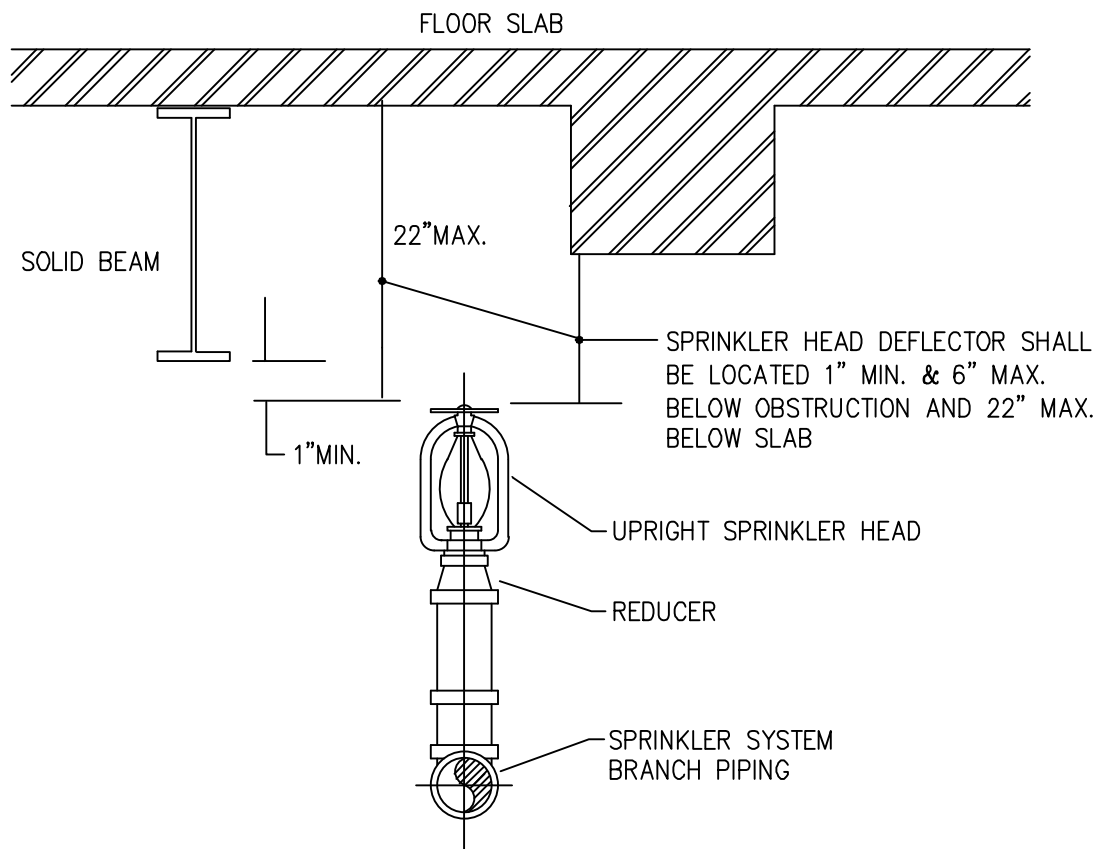
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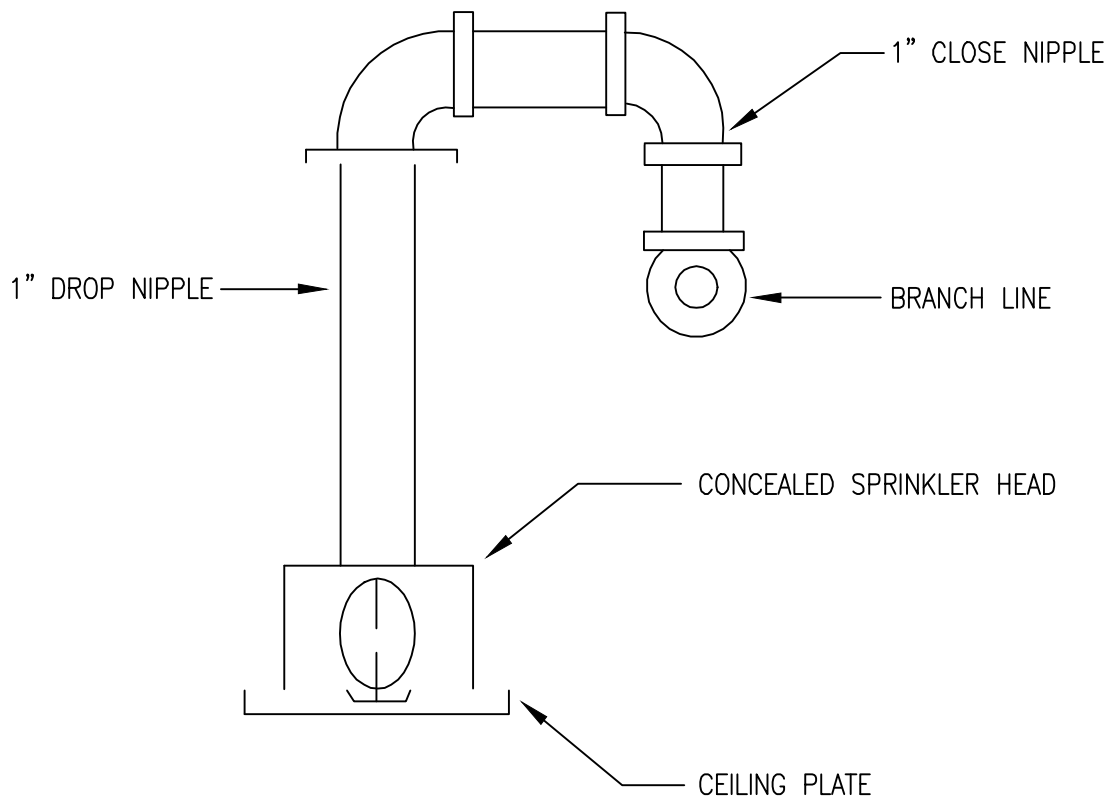
**SYSTEM TEST CONNECTION
ON WET PIPE SYSTEM**



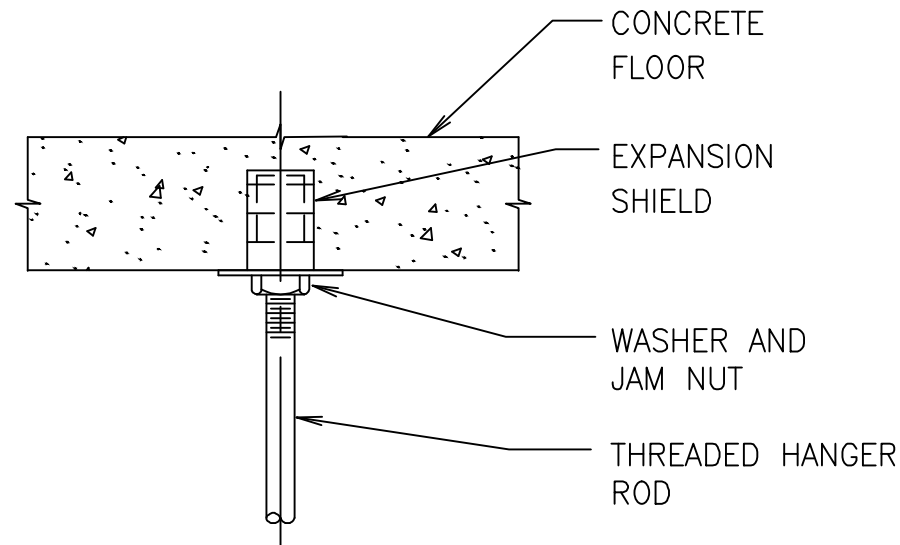
DUCT INTERFERENCE DETAIL
NO SCALE



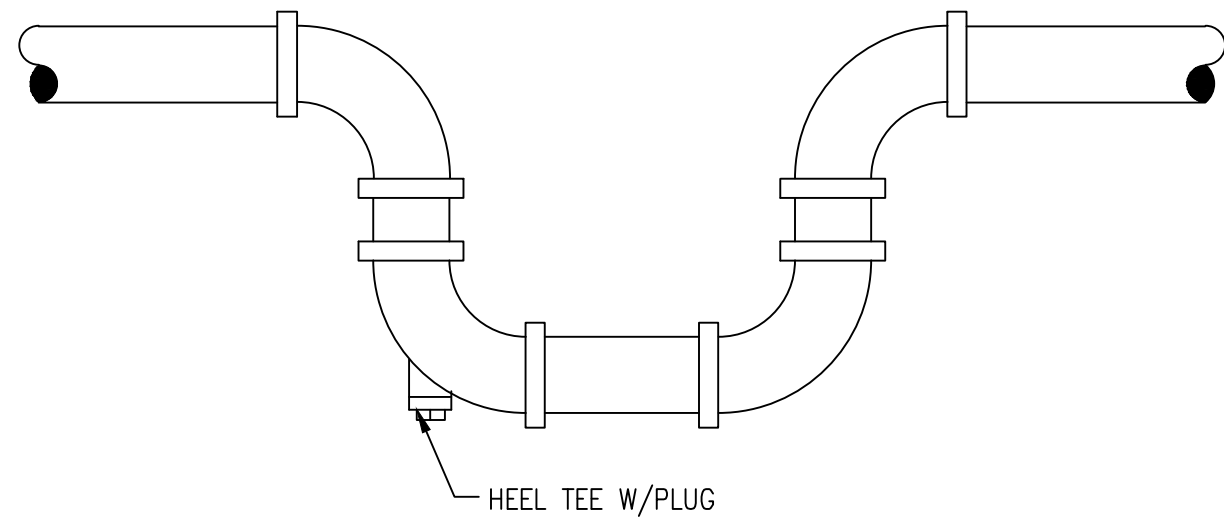
UPRIGHT SPRINKLER DETAIL
NO SCALE



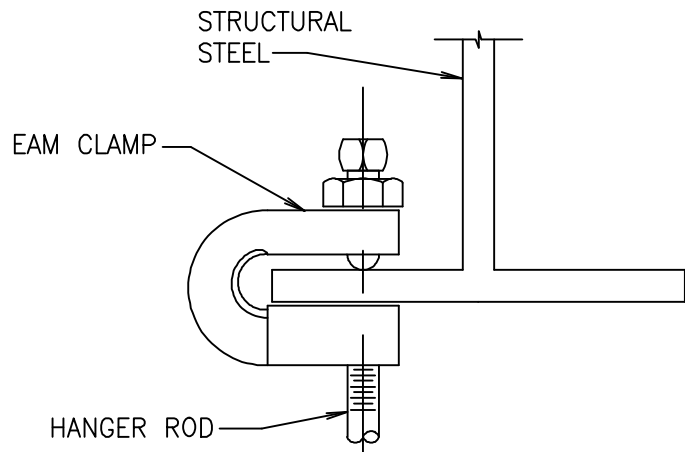
**RETURN BEND
(CONCEALED HEAD) DETAIL**
NO SCALE



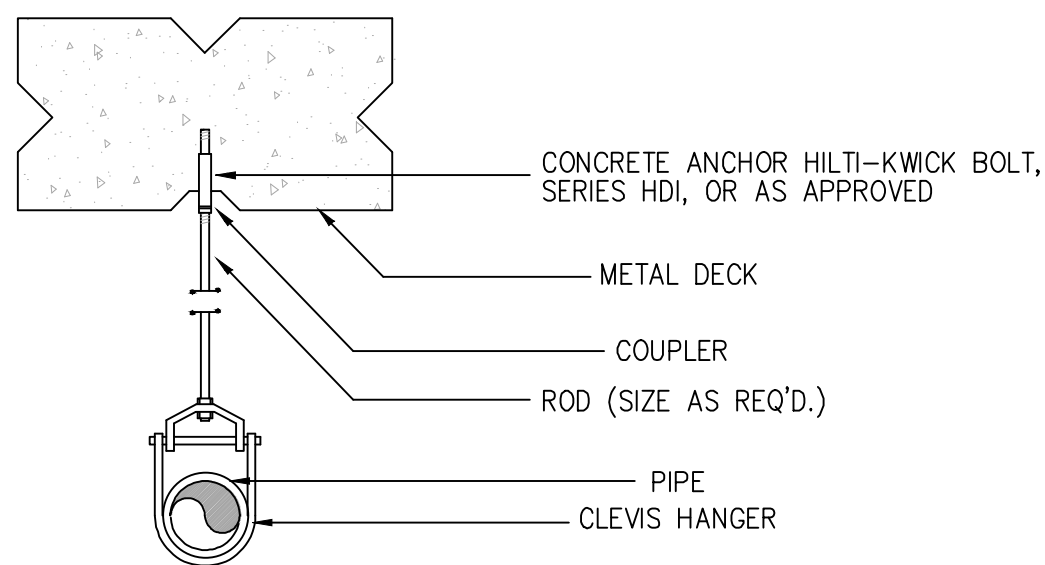
TYPICAL EXPANSION SHIELD
SCALE: NONE



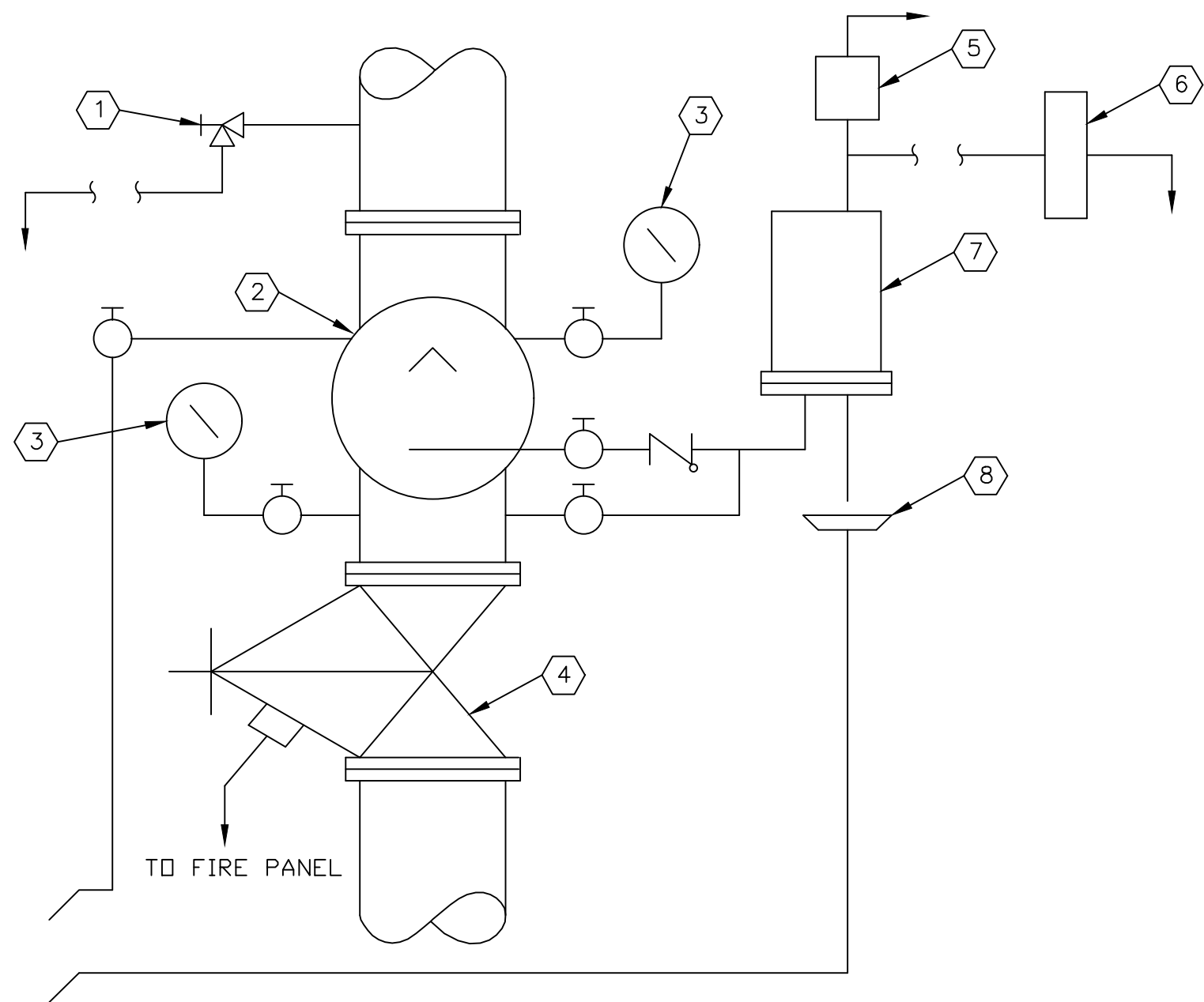
TYPICAL LOW-POINT DRAIN
NO SCALE



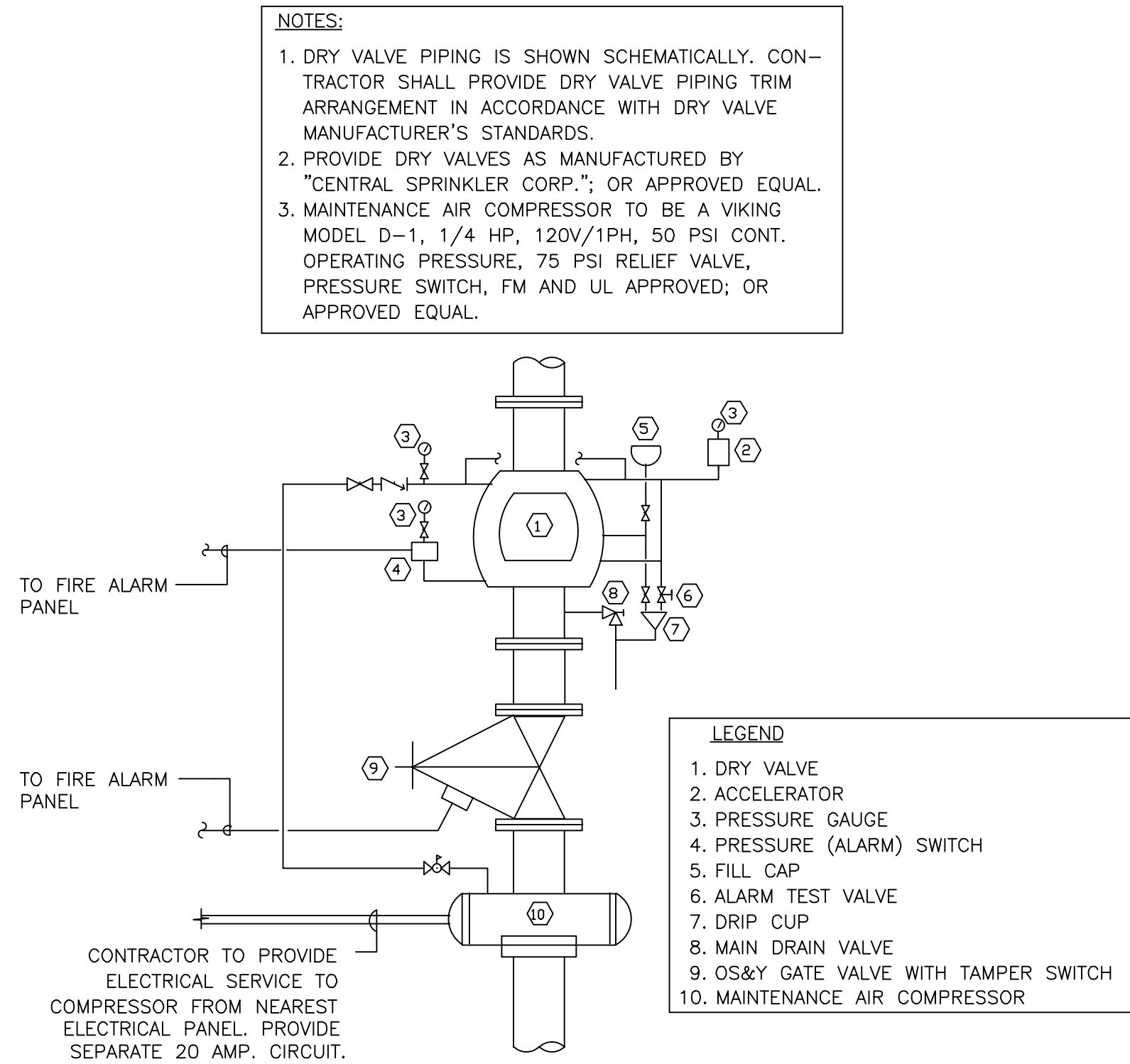
TYPE 'B' ATTACHMENT TO STEEL BEAM
SCALE: NONE



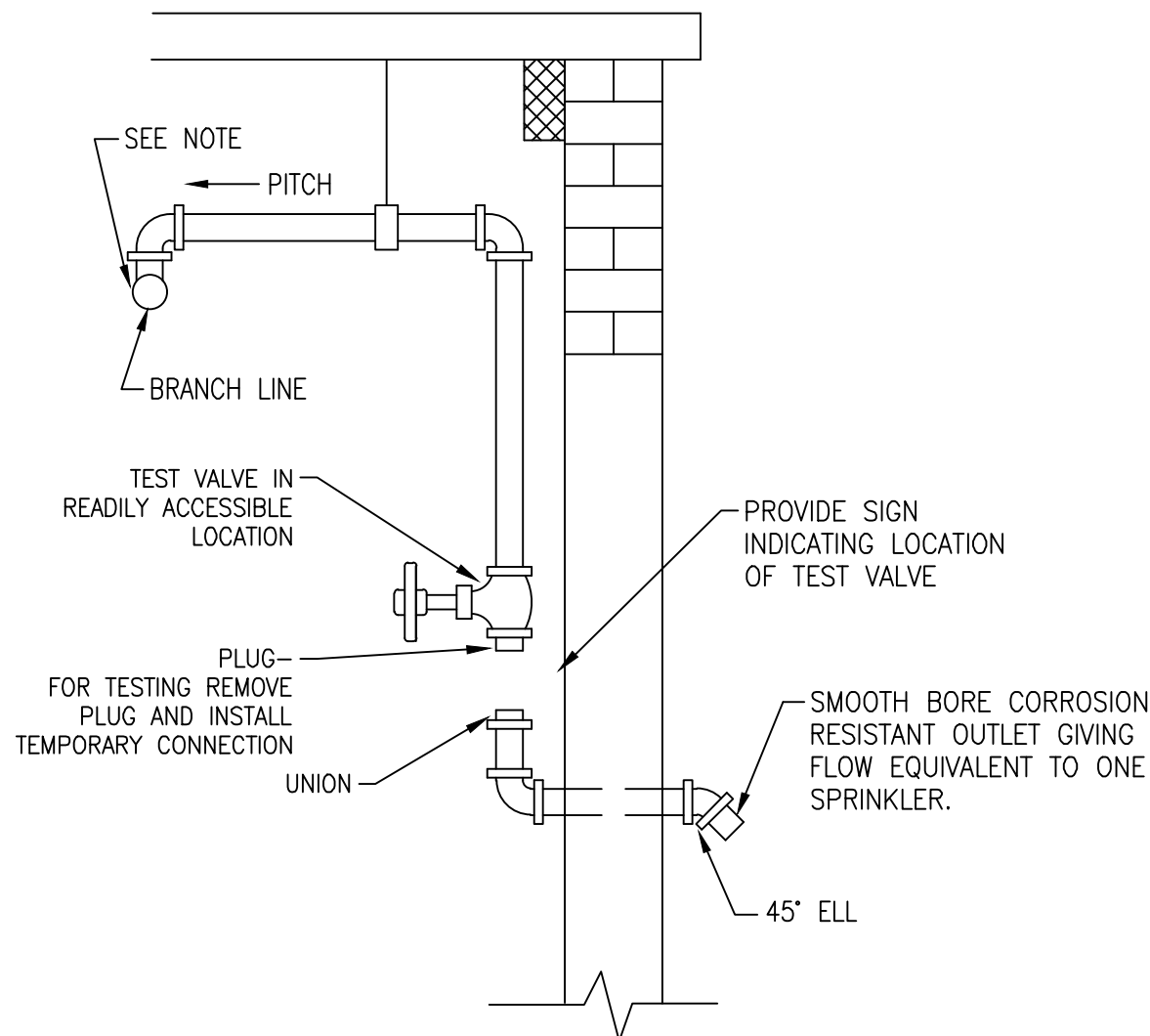
TYPICAL HANGER DETAIL
SCALE: NONE



ALARM CHECK VALVE DETAIL
SCALE: NONE



DRY VALVE DETAIL
NOT TO SCALE



**SYSTEM TEST CONNECTION
ON DRY PIPE SYSTEM**
NO SCALE

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PROPOSED NEW FACILITY
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**FIRE SPRINKLER
DETAILS**

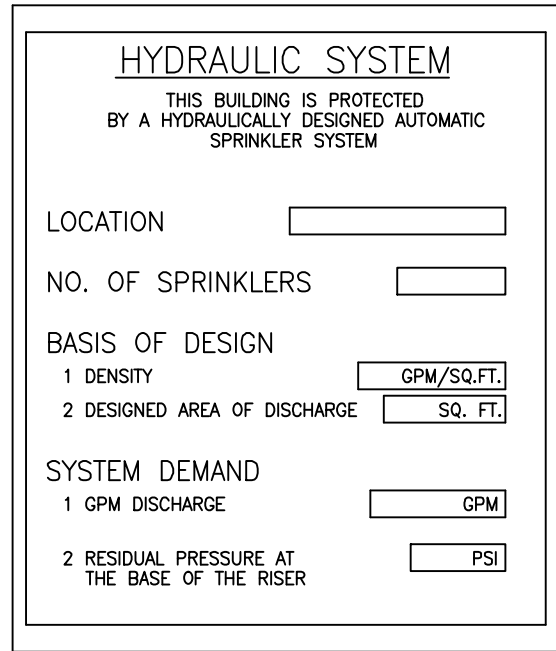
PROJECT No. **2501**
EMTEC-7611

CHECKED BY: **MF/APS**

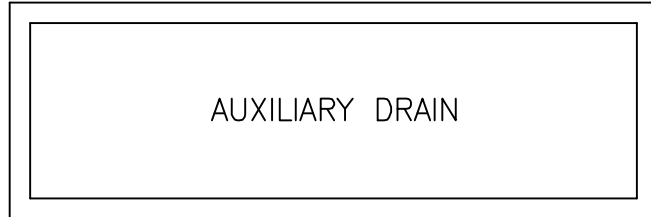
DRAWING:

FS-5.1

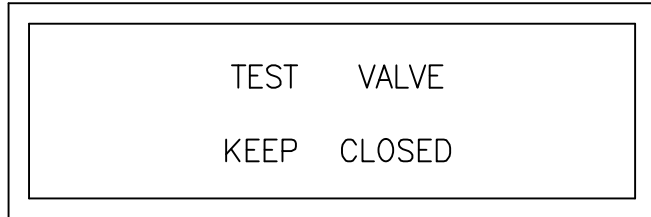
EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS



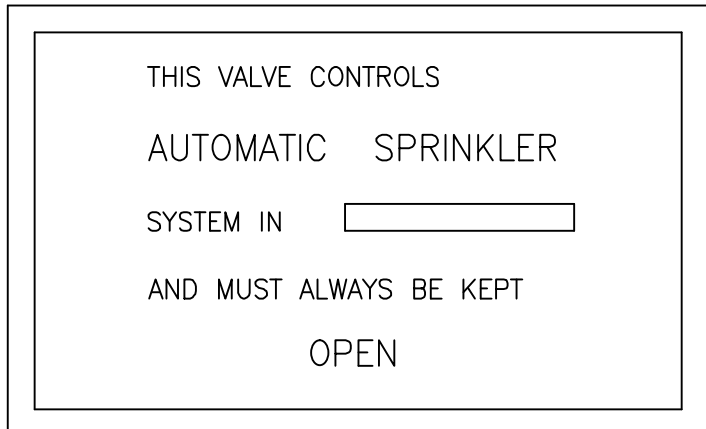
SIGN-1



SIGN-2



SIGN-3



SIGN-4

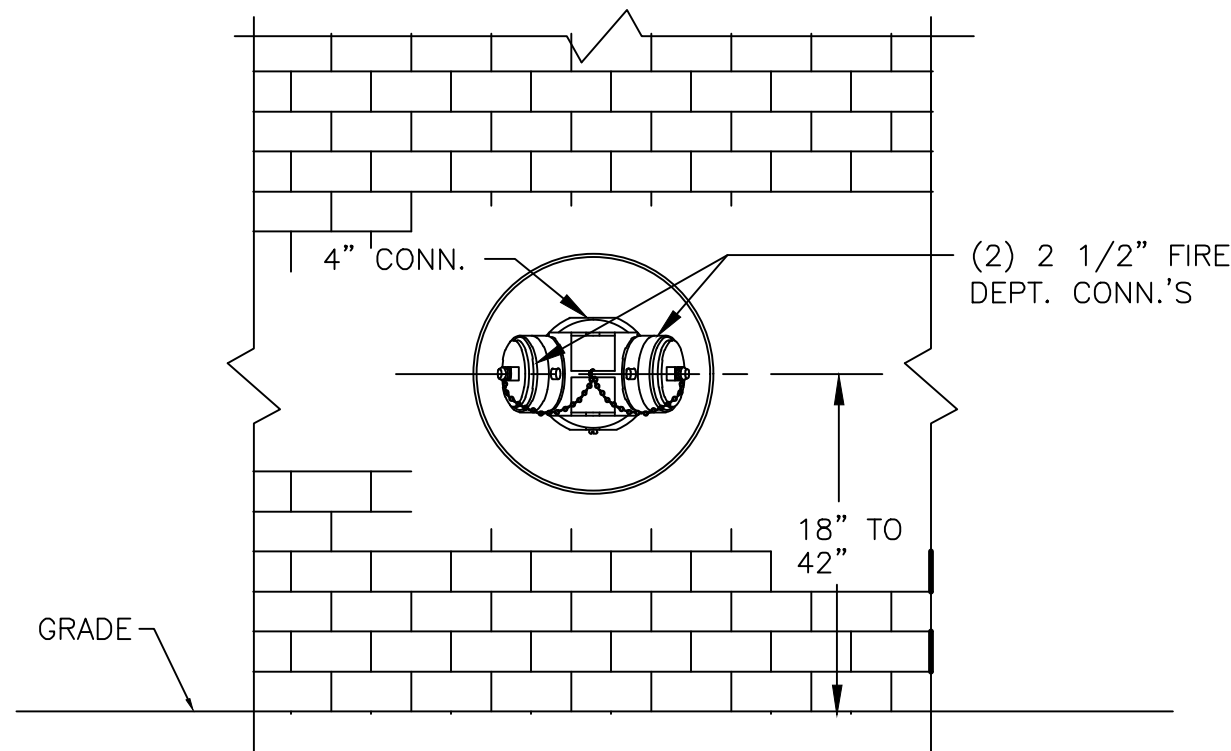


SIGN-5

TYPICAL SIGNS

SCALE: NONE

- NOTES
- SPRINKLER CONTRACTOR TO COORDINATE HEIGHT & LOCATION OF FIRE DEPT. CONNECTION WITH LOCAL FIRE DEPARTMENT.
 - SPRINKLER CONTRACTOR TO COORDINATE THREADS ON FIRE DEPT. CONNECTION WITH LOCAL FIRE DEPARTMENT.



FIRE DEPARTMENT CONNECTION DETAIL

SCALE: NONE

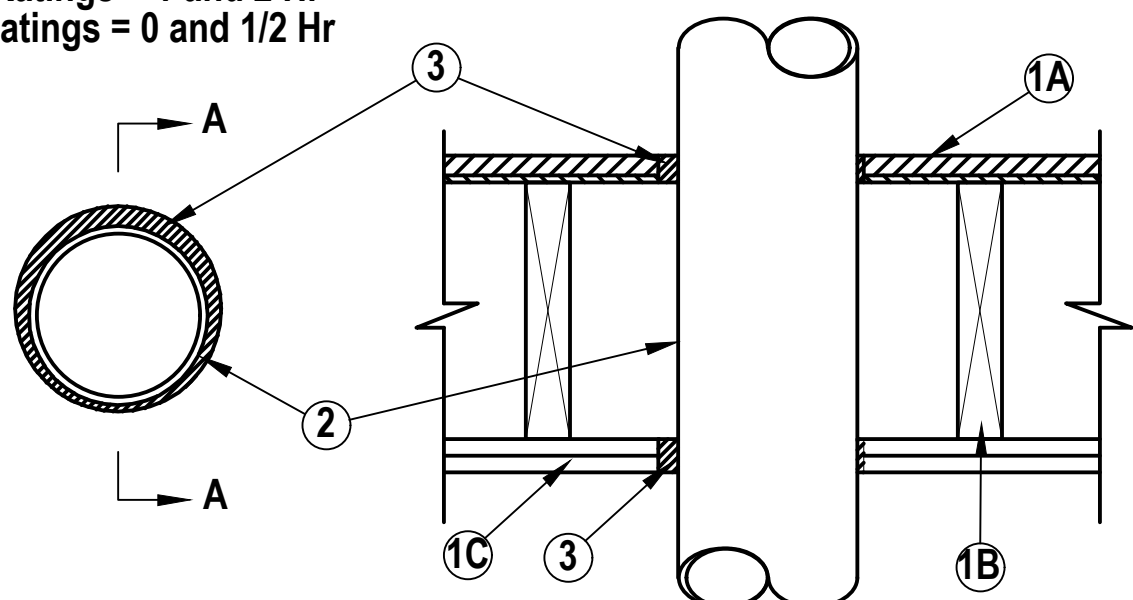
NOTES:

- All penetrations through rated walls, including but not limited to Boiler Rooms, Mechanical Equipment Rooms and Rated Shafts, shall be fire stopped per details sheets included in this drawing set. Refer to Architectural drawings for all wall ratings. Detail sheets show only a few common applications however, they do not show all applications. Contractor must use only firestop products that have been UL 1479 or ASTM E 814 tested for specific fire-rated construction conditions conforming to construction assembly type, penetrating item type, annular space requirements, and fire-rating involved for each separate instance.
- Details shown are typical details. If field conditions do not match requirements of typical details, approved alternate details shall be utilized. Field conditions and dimensions need to be verified for compliance with the details, including but not limited to the following:
 - Minimum and maximum Width of Joints
 - Type and thickness of fire-rated construction. The minimum assembly rating of the firestop assembly shall meet or exceed the highest rating of the adjacent construction.
- If alternate details matching the field conditions are not available, manufacturer's engineering judgment drawings are acceptable. Drawings shall follow the International Firestop Council (IFC) Guidelines for Evaluating Firestop Systems Engineering Judgments.
- References:
 - 2013 Underwriter's Laboratories Fire Resistance Directory, Volume 2
 - NFPA 101 Life Safety Code
 - All governing local and regional building codes
- Firestop System installation must meet requirements of ASTM E-814 (UL 1479) tested assemblies that provide a fire rating equal to that of construction being penetrated.
- All rated through-penetrations shall be prominently labeled with the following information:
 - ATTENTION: Fire Rated Assembly
 - UL System #
 - Product(s) used
 - Hourly Rating (F-Rating)
 - Installation Date

UL/cUL System No. F-C-1059

F Ratings = 1 and 2 Hr

T Ratings = 0 and 1/2 Hr



SECTION A-A

- Floor-Ceiling Assembly - The 1 or 2 hr fire-rated solid or trussed lumber joist floor-ceiling assembly shall be constructed of the materials and in the manner specified in the individual L500 Series Floor-Ceiling Designs in the UL Fire Resistance Directory. The F Rating of the firestop system is equal to the rating of the floor-ceiling and wall assemblies. The general construction features of the floor-ceiling assembly are summarized below:
 - Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture as specified in the individual Floor-Ceiling Design. Max diam of opening shall be 7-5/8 in.
 - Wood Joists - Nom 10 in deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members with bridging as required and with ends firestopped.
 - Gypsum Board - Thickness, type, number of layers and fasteners shall be as specified in the individual Floor-Ceiling Design. Diam of opening shall be 1 in. larger than the outside diam of pipe (Item 2).
 - Furring Channels - (Not Shown) (As required) Resilient galvanized steel furring installed in accordance with the manner specified in the individual L500 Series Designs in the Fire Resistance Directory.
- Chase Wall - (Not Shown, Optional) - The through penetrants (Item 2) may be routed through a 1 or 2 hr fire-rated single, double or staggered wood stud/gypsum wallboard chase wall having a fire rating consistent with that of the floor-ceiling assembly. The chase wall shall be constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Nom 2 by 8 in. lumber or double nom 2 by 6 in. lumber studs.
 - Sole Plate - Nom 2 by 8 in. lumber or parallel 2 by 6 in. lumber plates, tightly butted.
 - Top Plate - The double top plate shall consist of two nom 2 by 8 in. lumber plates or two sets of nom 2 by 6 in. lumber plates tightly butted. Max diam of opening is 7-5/8 in.
 - Gypsum Board - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Designs.
- Through Penetrants - One metallic tubing, pipe or conduit to be installed concentrically or eccentrically within the firestop system. Annular space between pipe or conduit and edge of opening to be min 1/4 in. and max 3/4 in. Pipe, tubing or conduit to be rigidly supported on both sides of floor-ceiling assembly. The following types and sizes of metallic pipes, tubing or conduit may be used:
 - Steel Pipe - Nom 6 in. diam (or smaller) Schedule 40 (or heavier) steel pipe.
 - Iron Pipe - Nom 6 in. diam (or smaller) cast or ductile pipe.
 - Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing or nom 6 in. diam (or smaller) steel conduit.
 - Steel Flexible Metal Conduit - Nom 2 in. diam (or smaller) steel flexible metal conduit.
- Fill, Void or Cavity Material - Sealant - Min 5/8 in. or 1-1/4 in. thickness of sealant applied within annular space, flush with the bottom surface of gypsum wallboard or lower top plate for 1 and 2 hr floors respectively. Min. 3/4 in. thickness of sealant applied within annular space, flush with top surface of floor.

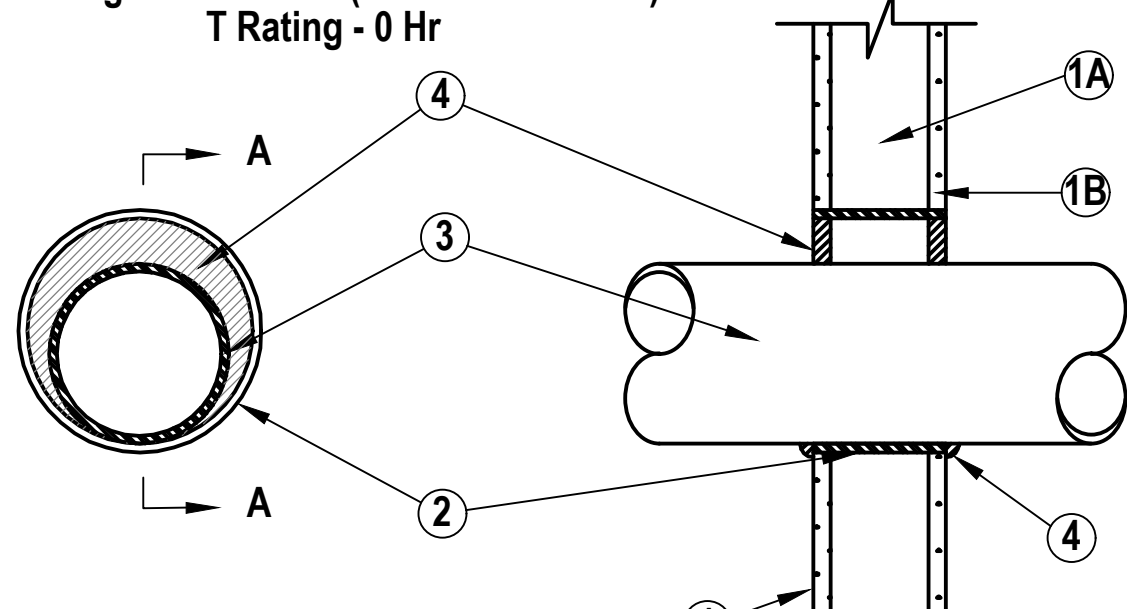
FIRESTOP OF METAL CONDUIT THROUGH WOOD FLOOR/CEILING RATED DETAIL

N.T.S.

UL/cUL System No. W-L-1164

F Ratings - 1 and 2 Hr (See Items 1 and 4)

T Rating - 0 Hr

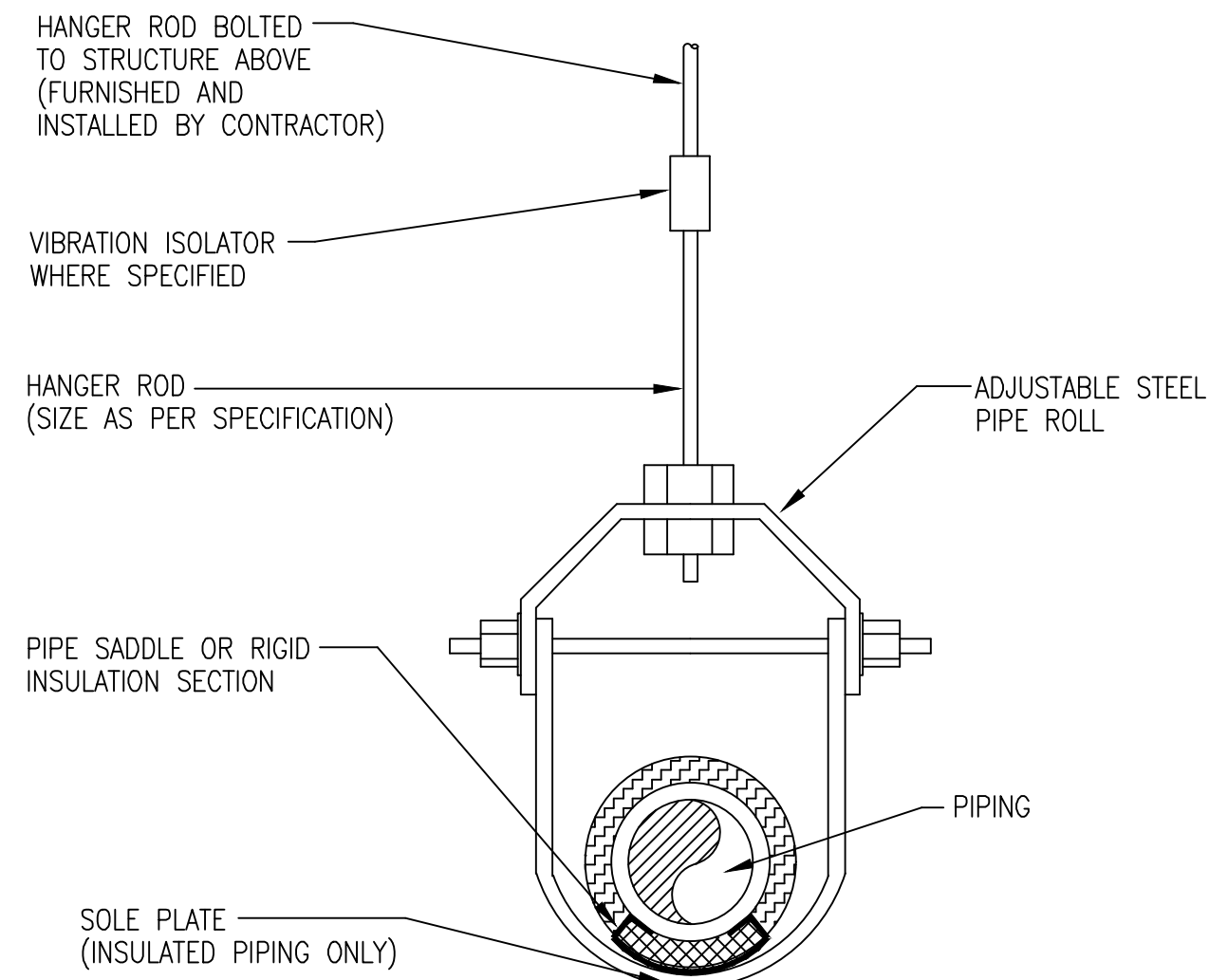


SECTION A-A

- Wall Assembly The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs -Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
 - Gypsum Board - The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening in steel stud walls is 32in.. Max diam of openings in wood stud walls is 14-1/2 in.The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
- Steel Sleeve - Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel pipe sleeve friction fit in nom 32 in. diam circular opening cut through gyp-sum wallboard layers. Length of steel sleeve to be equal to thickness of wall.
- Through-Penetrant - One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and the steel sleeve shall be min of 0 in. (point contact) to max 1-7/8 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - Steel Pipe - Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
 - Iron Pipe - Nom 30 in. diam (or smaller) service weight (or heavier) cast iron soil pipe or Class 50 (or heavier) ductile iron pressure pipe.
 - Conduit - Nom 4 in. diam (or smaller) steel electrical metallic tubing.
 - Copper Tubing - Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
 - Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
- Fill, Void or Cavity Material - Sealant - Min 5/8 in. and 1-1/4 in. thickness of fill material applied within annulus, flush with both surfaces of wall assembly for 1 or 2 hr rated walls, respectively. Min 1/2 in. diam bead of caulk applied to the penetrant/wallboard interface at the point contact location on both sides of wall.

FIRESTOP OF METAL PIPING THROUGH GYPSUM RATED WOOD OR STEEL WALL DETAIL

N.T.S.



SUSPENDED PIPING SUPPORT

NOT TO SCALE

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

FIRE SPRINKLER
DETAILS

PROJECT No. 2501

EMTEC 7611

CHECKED BY: MF/APS

DRAWING:

FS-5.2

EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS

ROOF

ATTIC

SECOND FLOOR

MEZZANINE

FIRST FLOOR

DATE

ISSUED

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203 S. MAIN ST. NYS ROUTE 209
ELLENVILLE, NY 12428

FIRE SPRINKLER
RISER DIAGRAM

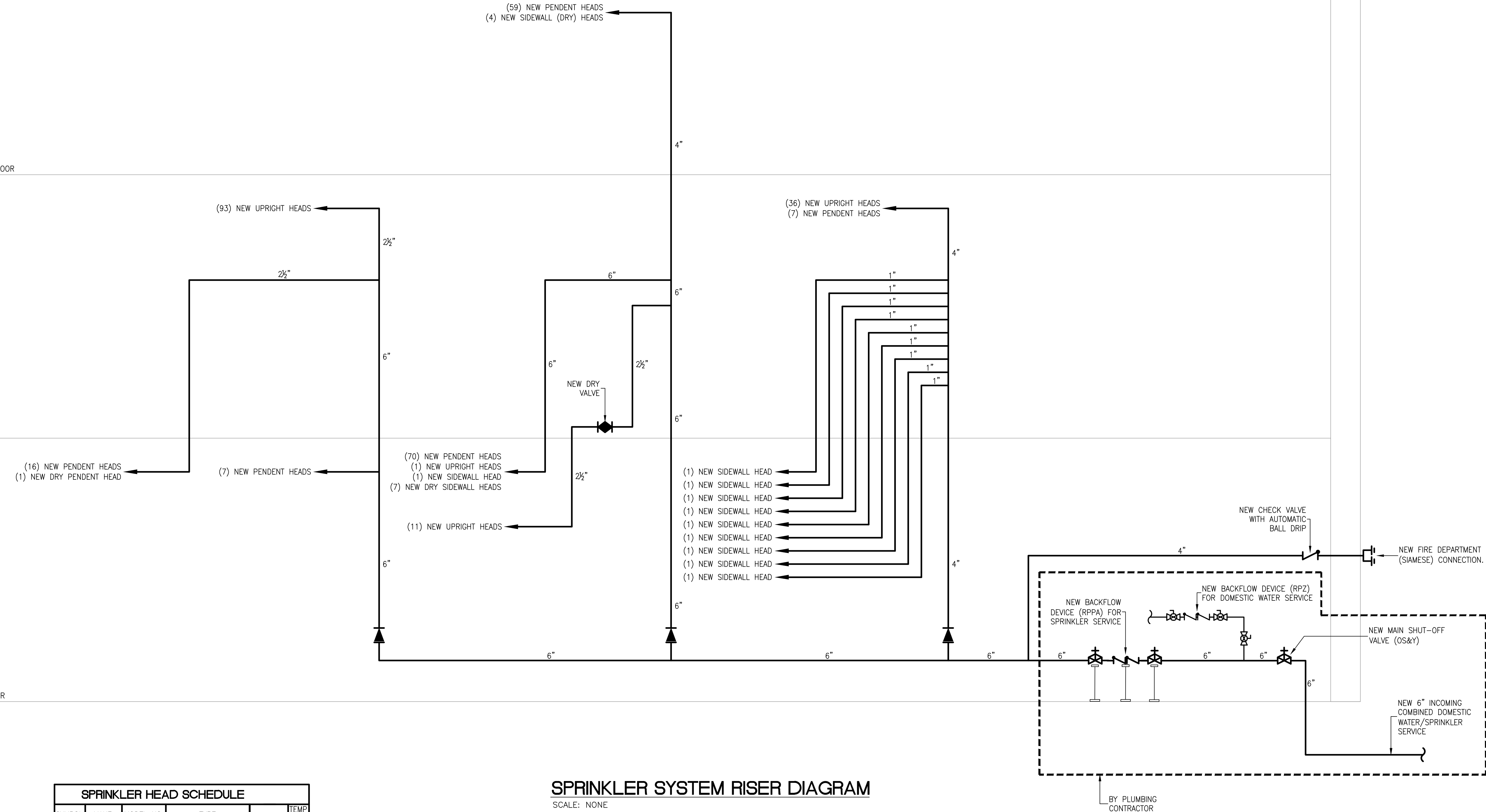
PROJECT No. 2501
EMTEC-7611

CHECKED BY: MF/APS

DRAWING:

FS-6.1

EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS



SPRINKLER HEAD SCHEDULE					
SYMBOL	MAKE	MODEL NO.	TYPE	K FACTOR	TEMP (°F)
●	RELIABLE	G5-56	CONCEALED PENDENT	5.6	155
○	RELIABLE	F1FR56	UPRIGHT	5.6	155
◁	RELIABLE	F1FR56	SIDEWALL	5.6	155
◄	RELIABLE	F3QR56	SIDEWALL (DRY)	5.6	155

SPRINKLER SYSTEM RISER DIAGRAM

SCALE: NONE

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SPRINKLER SPECIFICATIONS

1. GENERAL CONDITIONS

- A. THE "GENERAL CONDITIONS" OF THE CONTRACT FOR CONSTRUCTION OF THE AMERICAN INSTITUTE OF ARCHITECTS CURRENT EDITION SHALL FORM A PART OF THIS SPECIFICATION EXCEPT AS OTHERWISE HEREIN PROVIDED.
- B. INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION IN A MANNER SATISFACTORY TO THE ARCHITECT, INCLUDING ALL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.
- C. THE INSTALLATION SHALL BE ACCOMPLISHED BY AN AUTHORIZED (FIRE STANDPIPE) AND (SPRINKLER) CONTRACTOR RECOGNIZED AS A FULLY EXPERIENCED SPECIALIST IN THE INSTALLATION OF (FIRE STANDPIPE) AND (AUTOMATIC SPRINKLER SYSTEMS) BY THE BUILDING DEPARTMENT OF THE CITY OF NEW YORK.

2. LAWS AND ORDINANCES

- A. ALL NEW YORK STATE LAWS AND REGULATIONS AND OSHA RECOMMENDATIONS, GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY MADE A PART OF THESE SPECIFICATIONS. RESPONSIBILITY FOR COMPLIANCE TO THEIR PROVISIONS IS INCLUDED.

3. NOTICE TO BIDDERS

- A. BEFORE SUBMITTING PROPOSALS, EXAMINE THE SPECIFICATIONS AND ALL DRAWINGS RELATING TO THE WORK AND BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK.

4. EXAMINATION OF EXISTING CONDITIONS

- A. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK, BEFORE SUBMITTING PROPOSALS.
- B. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

5. PERMITS AND CERTIFICATES

- A. INSTALL ALL WORK IN FULL ACCORDANCE WITH THE REQUIREMENTS OF ALL LOCAL AND GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION OVER THESE MATTERS, AS WELL AS WITH ANY REQUIREMENTS OF THE NFPA 13 (2016), UL, FM, BS&A, MEA AND OTHER APPLICABLE CODES.
- B. GIVE NECESSARY NOTICES AND OBTAIN PERMITS OR LICENSES NECESSARY TO CARRY OUT THIS WORK AND PAY ALL FEES THEREFOR.
- C. ARRANGE FOR INSPECTIONS AND TESTS OF ANY OR ALL PARTS OF THE WORK AS REQUIRED BY AUTHORITIES OR UTILITY COMPANIES HAVING JURISDICTION AND PAY ALL CHARGES FOR SAME.
- D. PAY ALL COSTS FOR, AND FURNISH TO THE OWNER, ALL CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH ALL REGULATIONS AS THEY APPLY TO THIS WORK.

6. SHOP DRAWINGS

- A. APPROVED SPRINKLER PIPING DRAWINGS: WORKING PLANS, PREPARED ACCORDING TO NFPA 13 (2016), THAT HAVE BEEN APPROVED BY AUTHORITIES HAVING JURISDICTION, INCLUDING HYDRAULIC CALCULATIONS IF APPLICABLE BEFORE ORDERING OR INSTALLING EQUIPMENT OR MATERIAL.
- B. SHOP DRAWINGS FOR PIPING AND SIMILAR DISTRIBUTION SERVICES SHALL SHOW BY DIMENSION THE EXACT SIZE AND LOCATION OF EACH ELEMENT OF THE SYSTEM IN BOTH THE HORIZONTAL AND VERTICAL PLANE, AS WELL AS RELATIONSHIP TO THE BUILDING STRUCTURE, ARCHITECTURAL CONSTRUCTION, EQUIPMENT AND THE WORK OF OTHER TRADES. WHERE NEW WORK IS ADDED TO AN EXISTING STRUCTURE, THE SHOP DRAWINGS SHALL SHOW THE LOCATION OF ALL EXISTING SERVICES AND EQUIPMENT. THE WORK DESCRIBED IN ANY SHOP DRAWING SUBMISSION SHALL BE CAREFULLY CHECKED BY THIS CONTRACTOR FOR ALL CLEARANCES, FIELD CONDITIONS, MAINTENANCE OF ARCHITECTURAL CONDITIONS AND PROPER COORDINATION WITH ALL TRADES ON THE JOB.
- C. AT THE COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL TURN OVER TO THE OWNER FOR RECORD PURPOSES ONE SET OF REPRODUCIBLE APPROVED, AS-INSTALLED SHOP DRAWINGS.

7. SUBMITTALS

- A. SUBMIT NAMES, SIZES, CATALOG NUMBERS AND/OR SAMPLES OF THE FOLLOWING MATERIALS:
- | | |
|-------------------------|----------|
| SPRINKLER HEADS | FITTINGS |
| PIPE | |
| SPRINKLER HEAD CABINET | |
| SLEEVES AND ESCUTCHEONS | HANGERS |

8. AS-BUILT DRAWINGS

- A. UPON COMPLETION OF THE WORK, FURNISH RECORD DRAWINGS SHOWING THE EXACT LOCATION OF WORK INSTALLED. DRAWINGS SHALL BE MARKED "AS-BUILT RECORD DRAWINGS" AND CARRY CONTRACTOR'S NAME AND ADDRESS. DRAWINGS SHALL BE ISSUED IN PDF FORMAT.

9. CUTTING, CORE DRILLING, CHOPPING, ALTERING AND PATCHING

- A. THIS CONTRACTOR SHALL PERFORM ALL CUTTING, CORE DRILLING, CHOPPING, ALTERING AND PATCHING AS REQUIRED FOR THE INSTALLATION OF THE WORK PERFORMED UNDER THE SPRINKLER CONTRACT, INCLUDING THE RESTORING OF EXISTING WORK THAT IS DAMAGED AND/OR ALTERED DUE TO REMOVAL WORK. ALL MATERIALS AND WORKMANSHIP REQUIRED IN CONNECTION WITH CUTTING, ALTERING AND PATCHING SHALL MATCH THE EXISTING WORK IN EVERY RESPECT.

10. SHUT-DOWNS

- A. WHEN INSTALLATION OF NEW WORK REQUIRES THE SHUT-DOWN OF AN OPERATING SYSTEM, THE CONNECTION OF THE NEW WORK SHALL BE PERFORMED ONLY AFTER GIVING AT LEAST 72 HOURS (3 WORKING DAYS) NOTICE AND OBTAINING THE WRITTEN AUTHORIZATION OF THE OWNER. DURING CONNECTION OF NEW WORK THE SYSTEM MUST BE TURNED ON AND OFF AT THE BEGINNING AND ENDING OF EACH WORK DAY.

11. WORK IN EXISTING BUILDING

- A. PERFORM THE WORK IN THE EXISTING BUILDING WHEN AND AS DIRECTED, AND GENERALLY IN ACCORDANCE WITH THE SEQUENCE OF OPERATIONS. CAUTION IS HEREBY GIVEN THAT THE WORK SHALL BE PERFORMED SO AS TO CAUSE THE LEAST POSSIBLE INCONVENIENCE AND DISTURBANCE TO THE OCCUPANTS.
- B. THE PROPOSAL FOR WORK IN THE EXISTING BUILDING SHALL BE PREDICATED ON THE PERFORMANCE OF THE WORK DURING REGULAR WORKING HOURS. WHEN SO DIRECTED, HOWEVER, INSTALL WORK ON OVERTIME AND THE ADDITIONAL COST AND CHARGES THEREFOR SHALL BE ONLY THE "PREMIUM" PORTION OF THE WAGES PAID.
- C. SCRAP AND DEBRIS, EXCEPT AS OTHERWISE SPECIFIED, SHALL BE DISPOSED OF AND/OR REMOVED FROM THE SITE.

12. MATERIALS AND INSTALLATION

- A. SYSTEM AND COMPONENT PARTS SHALL BE THE PRODUCTS OF A MANUFACTURER EQUIPPED AND EXPERIENCED IN THE MANUFACTURING OF (FIRE STANDPIPE) AND (SPRINKLER SYSTEMS). DEVICES SHALL BE UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL APPROVED AND SHALL HAVE A CURRENT LISTING IN THEIR RESPECTIVE "APPROVED EQUIPMENT" LISTS. COMPONENTS AND PARTS SHALL BE SUBJECT TO THE ACCEPTANCE OF THE ARCHITECT.
- B. PIPE SHALL BE BLACK STEEL, SCHEDULE 40.
- C. PIPING FOR SPRINKLER SYSTEMS MAY BE SCHEDULE 10 ROLLED GROOVE WITH COUPLINGS AND FITTINGS FOR PIPING 2-1/2" AND LARGER.
- D. THREADS SHALL BE FULL AND CLEAN CUT AND BURRS FORMED IN CUTTING SHALL BE REAMED. WHEN ASSEMBLING PIPE, CARE SHALL BE TAKEN THAT THE PIPE DOES NOT EXTEND INTO THE FITTING OBSTRUCTING THE WATERWAY. JOINT COMPOUND SHALL BE APPLIED TO THE THREADS OF THE PIPE AND NOT TO THE FITTINGS OR SPRINKLERS. PIPES SHALL BE STRAIGHTENED BEFORE INSTALLATION TO PREVENT POCKETS. PIPES SHALL PITCH NOT LESS THAN 1/4" IN 10 FEET.
- E. FITTINGS, UNLESS OTHERWISE SPECIFIED, SHALL BE BLACK CAST IRON STANDARD MALLEABLE FITTINGS.
- F. SCREWED FITTINGS FOR SPRINKLER SYSTEMS SHALL BE 175# CAST IRON, ANSI B16.4.
- G. FLANGED FITTINGS FOR SPRINKLER SYSTEMS SHALL BE 175# CAST IRON ANSI B16.1.
- H. THREADED AND MECHANICAL FITTINGS FOR FIRE STANDPIPE SHALL BE OF REQUIRED PRESSURE RATING FOR THE THEIR RESPECTIVE PRESSURE ZONES.
- I. COUPLINGS SHALL NOT BE USED EXCEPT WHERE PIPE IS MORE THAN 20 FEET IN LENGTH BETWEEN FITTINGS.
- J. A ONE-PIECE REDUCING FITTING SHALL BE USED WHEREVER A CHANGE IS MADE IN THE SIZE. THE USE OF BUSHINGS OR REDUCING FLANGES WILL NOT BE PERMITTED.
- K. UNIONS SHALL BE OF THE HEAVY GROUND TYPE AND SHALL BE USED ONLY ON PIPES 2" AND SMALLER.
- L. CUT OR ROLLED GROOVES IN PIPE FOR USE WITH MECHANICAL GROOVED COUPLINGS SHALL BE MADE WITH AN APPROVED MACHINE MANUFACTURED BY THE SUPPLIER OF THE COUPLINGS. MECHANICAL COUPLINGS SHALL BE VICTAULIC #07 "ZERO-FLEX".
- M. INSTALL SPRINKLER HEADS IN ALL AREAS ON TRUE AXIS LINE IN BOTH DIRECTIONS WITH A MAXIMUM DEVIATION OF 1/2" Æ FROM THE AXIS LINE ESTABLISHED BY THE ARCHITECT FOR THE USE OF ALL TRADES. AT THE COMPLETION OF THE INSTALLATION, REMOVE AND REINSTALL ANY SPRINKLER HEADS FOUND TO EXCEED THE ABOVE-MENTIONED TOLERANCE.

13. HANGERS

- A. SUPPORT ALL PIPING WITH ACCEPTABLE HANGERS, ANCHORS, FRICTION HANGERS, AND SUPPORTS AS INDICATED OR SPECIFIED. HANGERS SHALL BE OF HEAVY IRON OR STEEL CONSTRUCTION. NO CAST STEEL OR CAST IRON SHALL BE USED. HANGERS SHALL HAVE NUT ABOVE AND BELOW HANGER. UPPER NUT SHALL BE LOCKED AGAINST HANGER TO PREVENT LOOSENING BY VIBRATION.
- B. SUPPORT HORIZONTAL PIPING AS FOLLOWS:
- (1) PIPING 1" SIZE AND SMALLER: ADJUSTABLE RING HANGER NOT MORE THAN 8'-0" APART.
- (2) PIPING 1-1/4" AND LARGER: CLEVIS HANGER NOT MORE THAN 10'-0" APART.
- (3) PIPING SUPPORTED FROM WALL SHALL BE PROVIDED WITH WELDED ANGLE IRON BRACKETS.
- C. PROVIDE HANGERS ON EVERY BRANCH OVER 3'-0" LONG.
- D. NO CHAIN, METAL STRAP OR WIRE WILL BE PERMITTED FOR THE SUPPORT OF ANY PIPING.

14. SPRINKLERS

- A. ANY NEW SPRINKLER HEADS TO MATCH EXISTING.
- B. EXISTING SPRINKLER HEADS SHALL BE REUSED.

15. TESTS

- A. THE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY TESTED UNDER A PRESSURE OF 200 PSI FOR TWO HOURS AND ANY DEFECTS OR LEAKS SHALL BE REMEDIED. CAULKING OF THREADS SHALL NOT BE PERMITTED.
- B. APPROVAL OF AUTHORITIES HAVING JURISDICTION SHALL BE OBTAINED IN WRITING BEFORE FINAL ACCEPTANCE OF THIS WORK.

16. GUARANTEE

- A. NEITHER THE FINAL CERTIFICATE OF PAYMENT NOR ANY PROVISION IN THE CONTRACT DOCUMENTS, NOR PARTIAL OR ENTIRE OCCUPANCY OF THE AREAS BY THE OWNER SHALL CONSTITUTE AN ACCEPTANCE OF WORK NOT DONE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR RELIEVE THE CONTRACTOR OF LIABILITY IN RESPECT TO ANY EXPRESS WARRANTIES OR RESPONSIBILITY FOR FAULTY MATERIALS OR WORKMANSHIP. THE CONTRACTOR SHALL REMEDY ANY DEFECTS OR INADEQUACIES IN THE WORK AND PAY FOR ANY DAMAGE TO OTHER WORK RESULTING THEREFROM, WHICH SHALL APPEAR WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. THE OWNER WILL GIVE NOTICE OF OBSERVED DEFECTS OR INADEQUACIES WITH REASONABLE PROMPTNESS.

DATE

ISSUED

06-22-2026 ISSUED FOR
100%DD/50%CD REVIEW
07-20-2026 ISSUED FOR 90%CD
REVIEW
08-17-2026
ISSUED FOR GENERAL
CONSTRUCTION BID AS SINGLE
PRIME CONTRACT INCLUDING
ALL TRADES

SEAL



SENDLEWSKI ARCHITECTS, P.C.

ARCHITECTS - PLANNERS

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PROPOSED NEW FACILITY

ELLENVILLE FIRE DISTRICT

203 S. MAIN ST. NYS ROUTE 209

ELLENVILLE, NY 12428

FIRE SPRINKLER
SPECIFICATIONS

PROJECT No. 2501
EMTEC-7611

CHECKED BY: MF/APS

DRAWING:

FS-7.1

"It is a violation of the State Education Law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration."

This plan is approved only for the work indicated on the application specification sheet, all other matters are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

EMTEC PROJECT NO. 7611 DRAWN BY: MF CHECKED BY: APS