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PROJECT INFORMATION

CONSTRUCTION TYPE	IIB
OCCUPANCY	A-3 / B / S-2
SPRINKLER SYSTEM TYPE	13-2016

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CLG	CEILING
(D)	DEMOLISH
DCV	DOUBLE CHECK VALVE DEVICE
DIA	DIAMETER
DN	DOWN
(E)	EXISTING
EA	EACH
FD	FLOOR DRAIN
FP	FIRE PUMP
FT.	FEET
'GC'	GENERAL CONTRACTOR
GPM	GALLONS PER MINUTE
'H'	HVAC CONTRACTOR
HP	HORSEPOWER
HZ	HERTZ
JP	JOCKEY PUMP
IN.	INCHES
KW	KILOWATTS
LBS	POUNDS
M	METER
MAX	MAXIMUM
MIN	MINIMUM
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NTS	NOT TO SCALE
OD	OUTER DIAMETER
(P)	PROPOSED
'P'	PLUMBING CONTRACTOR
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE DEVICE
TYP	TYPICAL

LIGHT HAZARD - WET SYSTEM

APPLICABLE AREAS	OFFICES, CORRIDOR, MEETING ROOM, ETC.
DESIGN DENSITY	0.1 GPM PER SQ. F.T
AREA OF APPLICATION	1,500 SQ. FT.
HOSE DEMAND	100 GPM FOR 30-60 MINUTES

LIGHT HAZARD - DRY ATTIC

APPLICABLE AREAS	DRY ATTIC SPACES
DESIGN DENSITY	0.1 GPM PER SQ. F.T
AREA OF APPLICATION	1,500 SQ. FT. X 30% (DRY SYSTEM) + 30% (SLOPED ROOF)
HOSE DEMAND	100 GPM FOR 30-60 MINUTES

ORDINARY HAZARD - GROUP 2

APPLICABLE AREAS	FIRE TRUCK APPARATUS BAY
DESIGN DENSITY	0.2 GPM PER SQ. F.T
AREA OF APPLICATION	1,500 SQ. FT.
HOSE DEMAND	250 GPM FOR 60-90 MINUTES

ORDINARY HAZARD - GROUP 1

APPLICABLE AREAS	COMMERCIAL KITCHEN, STORAGE, ETC.
DESIGN DENSITY	0.15 GPM PER SQ. F.T
AREA OF APPLICATION	1,500 SQ. FT.
HOSE DEMAND	250 GPM FOR 60-90 MINUTES

SYMBOLS LIST

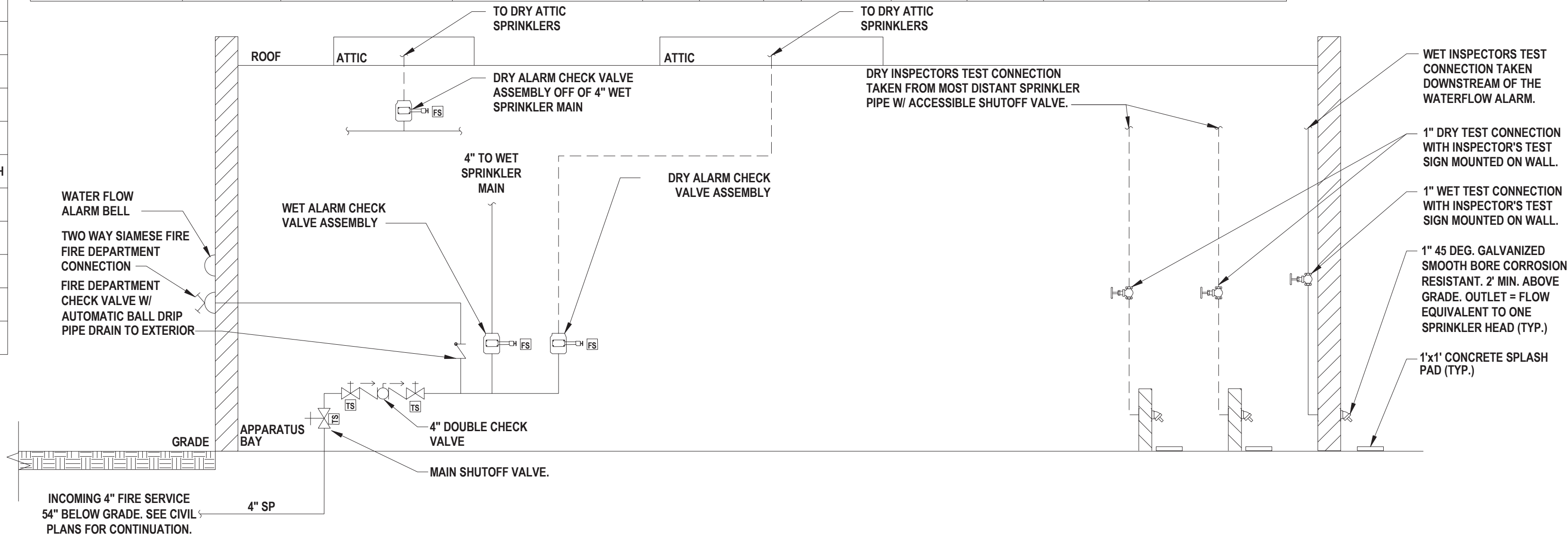
	GENERAL VALVE
	GATE VALVE (NON-RISING STEM)
	OS & Y GATE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	SOLENOID VALVE
	PRESSURE REGULATING VALVE
	POST INDICATOR VALVE
	DRAIN VALVE
	DRY PIPE VALVE
	DRY PIPE VALVE WITH QUICK OPENING DEVICE
	PREACTION DRY VALVE
	PREACTION VALVE
	BACKFLOW PREVENTER - DOUBLE CHECK VALVE
	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE (RPZ)
	REDUCER
	ROOF MANIFOLD
	PRESSURE GAUGE
	METER
	PUMP
	SPRINKLER PIPING AND BRANCH LINE - WET SYSTEM
	DRY SPRINKLER PIPING - DRY SYSTEM
	WATER MAIN UNDER BUILDING
	PIPE TRACE HEATER
	CAP END
	FLOW IN DIRECTION OF ARROW
	PIPE UP
	PIPE DOWN
	RISER
	SIAMESE FIRE DEPARTMENT CONNECTION
	FREE STANDING SIAMESE FIRE DEPARTMENT CONNECTION
	FREE STANDING TEST HEADER
	WALL MOUNTED TEST HEADER
	ALARM VALVE
	WATER MOTOR GONG
	HOSE STATION, WET STANDPIPE
	HOSE STATION, DRY STANDPIPE
	UPRIGHT SPRINKLER
	CONCEALED PENDENT SPRINKLER
	UPRIGHT SPRINKLER ON SPRIG
	PENDENT SPRINKLER ON SPRIG
	SPRINKLER WITH GUARD
	SIDEWALL SPRINKLER
	OUTSIDE SPRINKLER
	WINDOW SPRINKLERS
	FLOW DETECTOR / SWITCH
	PRESSURE DETECTOR / SWITCH
	TAMPER SWITCH / VALVE SUPERVISORY SWITCH
	VALVE WITH TAMPER SWITCH / VALVE SUPERVISORY SWITCH
	FLOW CONTROL VALVE ASSEMBLY
	THRUST BLOCK
	POINT OF CONNECTION
	POINT OF DISCONNECT
	HYDRAULIC NODE

GENERAL SPRINKLER NOTES

- ALL EQUIPMENT SHALL BE APPROVED AND LISTED FOR FIRE PROTECTION SERVICE.
- PROVIDE A WATER SUPPLY LETTER WITH FLOW TEST DATA INDICATING DATE OF TEST AND DATA USED FOR HYDRAULIC CALCULATIONS.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE APPLICATIONS, PAY FEES, AND OBTAIN ALL PERMITS AND APPROVALS AS REQUIRED. DESIGN AND INSTALL SYSTEMS COMPLETE AND IN WORKING ORDER, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE UNIFORM CODE, NFPA, LOCAL FIRE DEPARTMENT, AND AUTHORITY HAVING JURISDICTION.
- FLOOR PLANS ARE PROVIDED FOR CONTRACTOR'S USE AS BACKGROUND DRAWINGS. CONTRACTOR SHALL REVIEW AND COORDINATE WORK WITH ALL OTHER BUILDING DRAWINGS AS REQUIRED TO PROVIDE A COMPLETE AUTOMATIC SPRINKLER PROTECTION IN THE AREAS OF WORK AS DESCRIBED IN SCOPE OF WORK AND IN THE PROJECT SPECIFICATIONS.
- A FULLY COORDINATED SET OF FIRE SPRINKLER DESIGN DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND AUTHORITY HAVING JURISDICTION FOR REVIEW.
- THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES REQUIRED BY THE UNIFORM CODE AND NFPA FOR ABOVE GROUND AND UNDERGROUND PIPE SHALL BE SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PRIOR TO APPROVAL OF THE INSTALLATION.
- INSPECTION AND TESTS OF FIRE SUPPRESSION SYSTEM SHALL BE CONDUCTED AS SPECIFIED IN THE UNIFORM CODE AND NFPA. DOCUMENTATION OF ALL REQUIRED SYSTEMS INSPECTION AND TEST CERTIFICATES SHALL BE PROVIDED IN WRITING TO THE OWNER, ENGINEER AND AUTHORITY HAVING JURISDICTION.
- PIPING SPECIFICATIONS, PIPE SCHEDULES, SYSTEM TEST PIPES, PROTECTION AGAINST CORROSION, DAMAGE FITTINGS, VALVES, HANGERS, SPRINKLERS, GUARDS AND SHIELDS SHALL BE IN ACCORDANCE NFPA 13, 2016 EDITION.
- WET-PIPE FIRE SUPPRESSION SYSTEMS SHALL BE PROTECTED AGAINST FREEZING AT ALL TIMES. THE OWNER SHALL PROVIDE HEAT THROUGHOUT THE ENTIRE AREA WHERE WET-PIPE FIRE SUPPRESSION SYSTEMS ARE INSTALLED.
- FIRE SUPPRESSION SYSTEMS, EQUIPMENT, AND APPURTENANCES SHALL BE PROTECTED AGAINST MECHANICAL DAMAGE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL REQUIRED SIGNAGE AND HYDRAULIC NAMEPLATES. ALL VALVES SHALL BE IDENTIFIED AS REQUIRED BY THE UNIFORM CODE AND NFPA.
- THE CONTRACTOR SHALL PROVIDE PERMANENT PROVISIONS TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS.
- ALL VALVES ON CONNECTIONS TO WATER SUPPLIES AND IN SUPPLY TO FIRE SUPPRESSION SYSTEMS SHALL BE APPROVED OS&Y OR APPROVED INDICATOR TYPE WITH FIRE ALARM SYSTEM SUPERVISORY SWITCHES. CONTRACTOR SHALL FURNISH AND INSTALL SUPERVISORY SWITCHES FOR ALL FIRE SUPPRESSION VALVES ON THE PROJECT.
- WATER SUPPLY TEST PIPES AND GAUGES SHALL BE PROVIDED AS SPECIFIED IN NFPA 13-2016.
- ALL PIPES PASSING THROUGH FOUNDATION WALLS SHALL BE PROTECTED. UNDERGROUND PIPING, INCLUDING WHERE IT ENTERS THE BUILDING, SHALL BE SUPPORTED AS SPECIFIED BY NFPA 24 PERTAINING TO RODDING, CLAMPING AND THRUST BLOCKING OF THE PIPE.
- HANGING AND BRACING SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH CHAPTER 9 OF NFPA 13-2016. SPRINKLER PIPING SHALL BE SUPPORTED BY ADJUSTABLE HANGERS AND SEISMIC BRACING PER THE UNIFORM CODE AND NFPA. LISTED FLEXIBLE COUPLINGS SHALL BE INSTALLED AT THE TOP AND BOTTOM OF ALL RISERS.
- HANGERS SHALL BE OF A TYPE APPROVED FOR USE WITH THE PIPE OR TUBE INVOLVED AND APPROPRIATE FOR THE TYPE OF BUILDING CONSTRUCTION. SPRINKLER PIPING SHALL BE SUPPORTED BY ADJUSTABLE HANGERS PER NFPA.
- CLEARANCES FOR WALL PENETRATIONS SHALL BE IN ACCORDANCE WITH NFPA 13-2016.
- ALL PIPING PASSING THROUGH FIRE-RESISTANCE RATED CONSTRUCTION SHALL BE INSTALLED WITH UL LISTED MATERIALS AND ASSEMBLIES TO MAINTAIN THE REQUIRED RATING. MATERIALS AND INSTALLATION SHALL COMPLY WITH THE UNIFORM AND CONTRACT SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PAINTING FIRE PROTECTION PIPING IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. ALL EXPOSED SPRINKLER PIPING SHALL BE PAINTED RED IN BACK-OF-HOUSE AREAS AND PAINTED TO MATCH ARCHITECTURAL FINISHES IN FINISHED AREAS. WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION THE CONTRACTOR SHALL PAINT ALL PIPING RED, INCLUDING FIRE PROTECTION PIPING IN CHASES AND ALL OTHER ENCLOSED PIPING.
- FIRE SUPPRESSION SYSTEMS SHALL BE ARRANGED TO DRAIN PROPERLY IN ACCORDANCE WITH THE UNIFORM CODE AND NFPA.
- A ONE PIECE REDUCING FITTING OF GOOD DESIGN SHOULD BE USED WHEREVER A CHANGE IS MADE IN THE SIZE OF PIPE IN ACCORDANCE WITH NFPA.

SPRINKLER SCHEDULE

SYMBOL	MANUFACTURER	MODEL	TYPE	SIN	K-FACTOR	SIZE	TEMPERATURE	COVERAGE	REQUIRED FLOW (GPM)	REQUIRED PRESSURE	FINISH
	VIKING	MICROFAST QUICK RESPONSE	UPRIGHT	VK300	5.6	1/2"	155 DEG. F	REFER TO LISTING	REFER TO LISTING	7 PSI	BRASS
	VIKING	MIRAGE QUICK RESPONSE	CONCEALED PENDENT	VK462	5.6	1/2"	155 DEG. F	REFER TO LISTING	REFER TO LISTING	7 PSI	WHITE COVERPLATE
	VIKING	MICROFAST QUICK RESPONSE	SIDEWALL	VK305	5.6	1/2"	155 DEG. F	REFER TO LISTING	REFER TO LISTING	7 PSI	BRASS
	VIKING	QUICK RESPONSE	DRY UPRIGHT	VK184	5.6	1/2"	155 DEG. F	REFER TO LISTING	REFER TO LISTING	7 PSI	BRASS
	VIKING	MICROFAST QUICK RESPONSE EXTENDED COVERAGE	SIDEWALL	VK605	5.6	1/2"	155 DEG. F	REFER TO LISTING	REFER TO LISTING	21.6 PSI	BRASS



SPRINKLER SYSTEM NOTES

- THE CONTRACTOR IS RESPONSIBLE TO SUPPLY AND INSTALL COMPLETE AUTOMATIC SPRINKLER PROTECTION THROUGHOUT THE BUILDING.
- ALL WORK SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE 2020 NEW YORK STATE FIRE PREVENTION AND WORKING CODE (UNIFORM CODE, NYSUC) AND ITS REFERENCED STANDARDS, INCLUDING BUT NOT LIMITED TO, NFPA 13-2016 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. SYSTEMS SHALL BE DESIGNED AS OUTLINED IN THE IN CONTRACT DRAWINGS AND SPECIFICATIONS. THE SYSTEMS SHALL INCLUDE BACKFLOW PREVENTION, PUMPS, PIPING, FITTINGS, HANGERS, SPRINKLERS, ETC. AND ALL REQUIRED APPURTENANCES TO FORM A COMPLETE WORKING SYSTEM. THE INSTALLATION COMPONENTS, SIZING, SPACING, MATERIALS, LOCATION, CLEARANCES, POSITION, AND TYPE OF SYSTEM SHALL CONFORM TO NFPA 13-2016 AND THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR SHALL SUBMIT THE DESIGN DRAWINGS AND HYDRAULIC CALCULATIONS FOR THE SPRINKLER SYSTEM AS OUTLINED IN NFPA 13-2016 TO THE ENGINEER AND FOR APPROVAL TO THE AUTHORITY HAVING JURISDICTION. PLANS AND CALCULATIONS SHALL BE BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, WHOSE NAME AND LICENSE NUMBER SHALL BE CLEARLY INDICATED ON THE DRAWINGS AND CALCULATIONS. THE SPRINKLER CONTRACTOR SHALL BE LICENSED IN THE STATE OF NEW YORK AND THE LOCAL MUNICIPALITY.
- ALL PIPING SHALL BE A MINIMUM OF 1-INCH.
- PROVISIONS SHOULD BE MADE TO FACILITATE FLUSHING SYSTEM PIPING BY PROVIDING FLUSHING CONNECTIONS CONSISTING OF A CAPPED NIPPLE 4" LONG ON THE END OF THE CROSS MAIN.
- A MINIMUM OF 18 INCHES MUST BE KEPT CLEAR BELOW SPRINKLERS TO TOP OF STORAGE.
- SPACING, LOCATION AND POSITION OF SPRINKLERS SHALL BE IN ACCORDANCE WITH ALL REQUIRED OBSTRUCTION CRITERIA OF THE UNIFORM CODE AND NFPA.
- CENTER SPRINKLER HEADS ON CEILING TILES.
- SUSPENDED CEILING TILE SYSTEMS AND GYPSUM BOARD CEILINGS ARE SHOWN. ALL OTHER CEILINGS ARE OPEN TO THE STRUCTURE. REFER TO 'A' AND 'S' DRAWINGS FOR SECTIONS CLEARANCES, AND FINAL REFLECTED CEILING PLANS.
- DISTANCE OF SPRINKLERS FROM HEAT SOURCES SHALL BE IN ACCORDANCE WITH NFPA.
- SPRINKLER TEMPERATURE RATINGS SHALL BE ORDINARY UNLESS SPRINKLERS ARE EXPOSED TO HIGH TEMPERATURE EQUIPMENT. IN SUCH CASE, SPRINKLER TEMPERATURE RATINGS SHALL BE IN ACCORDANCE WITH NFPA.
- ALL SPRINKLERS SHALL BE QUICK RESPONSE UNLESS OTHERWISE NOTED. THE USE OF QUICK RESPONSE AND STANDARD RESPONSE SPRINKLERS IN THE SAME SPACE IS NOT PERMITTED.
- CONTRACTOR SHALL PROVIDE A SPRINKLER CABINET WITH SPRINKLER WRENCHES AND A STOCK OF EXTRA SPRINKLERS AS REQUIRED BY THE NFPA. THE QUANTITY AND TYPE OF WRENCHES SHALL BE AS REQUIRED BY NFPA, INCLUDING FOR EACH TEMPERATURE RATING.
- STOCK OF EXTRA SPRINKLERS WILL BE FURNISHED AS PER NFPA.
- SPRINKLER ALARMS SHALL BE INSTALLED IN ACCORDANCE WITH THE UNIFORM CODE AND NFPA.
- ALL BLIND SPACES EXCEEDING 6 INCHES IN WIDTH OR DEPTH WHICH CONTAIN COMBUSTIBLE MATERIAL SHALL BE SPRINKLERED.
- CONTRACTOR SHALL SPRINKLER ALL COMBUSTIBLE ABOVE-CEILING SPACES.
- SYSTEM PIPING IS NOT PERMITTED TO BE RUN OVER ELECTRICAL PANELS OR TELECOMMUNICATIONS PANELS.

PERFORMANCE SPECIFICATION NOTES

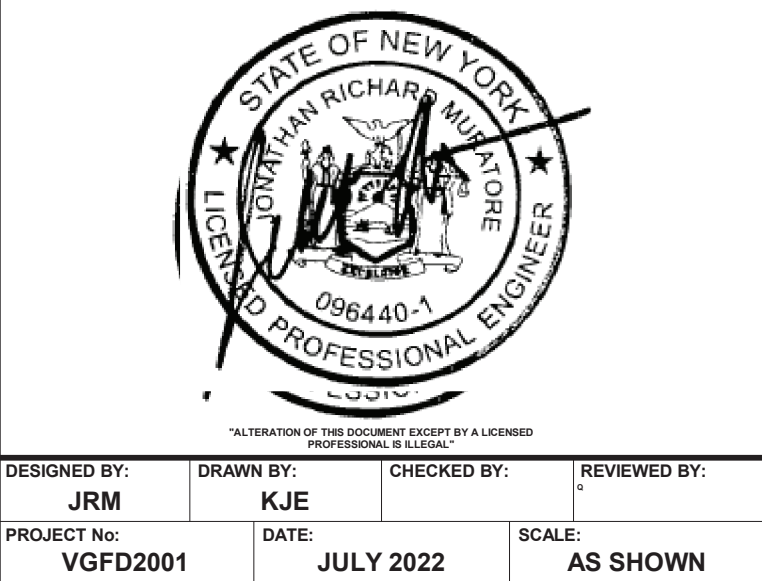
- QUANTITY OF SPRINKLER HEADS SHOWN ON DRAWINGS ARE TO SHOW DESIGN INTENT AND FOR REFERENCE ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES.



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CONSULTANTS:

MARK	DATE	DESCRIPTION
2	12/22/2022	REVS. PER TOWN COMMENTS



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PROJECT No: VGFD2001 DATE: JULY 2022 SCALE: AS SHOWN

CLIENT

VAILS GATE FIRE DISTRICT

New Storage Building (Phase I)
New Fire Station (Phase II)

872 Blooming Grove Turnpike
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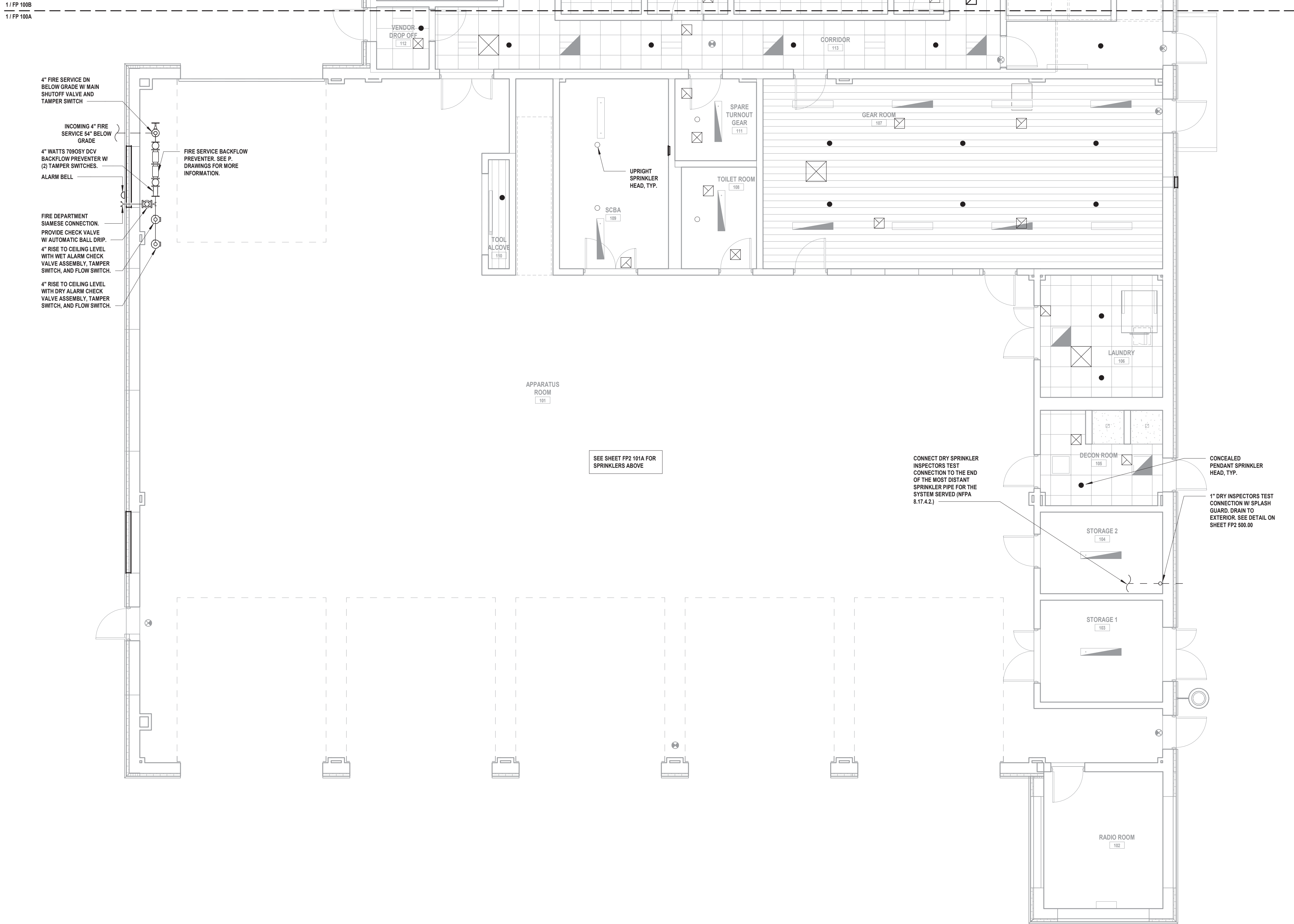
FIRE PROTECTION GENERAL NOTES, LEGEND, ABBREVIATIONS, AND SCHEDULE

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1 Fire Protection First Floor Plan - Area A
SCALE: 3/16" = 1'-0"

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engineers

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PHASE 2

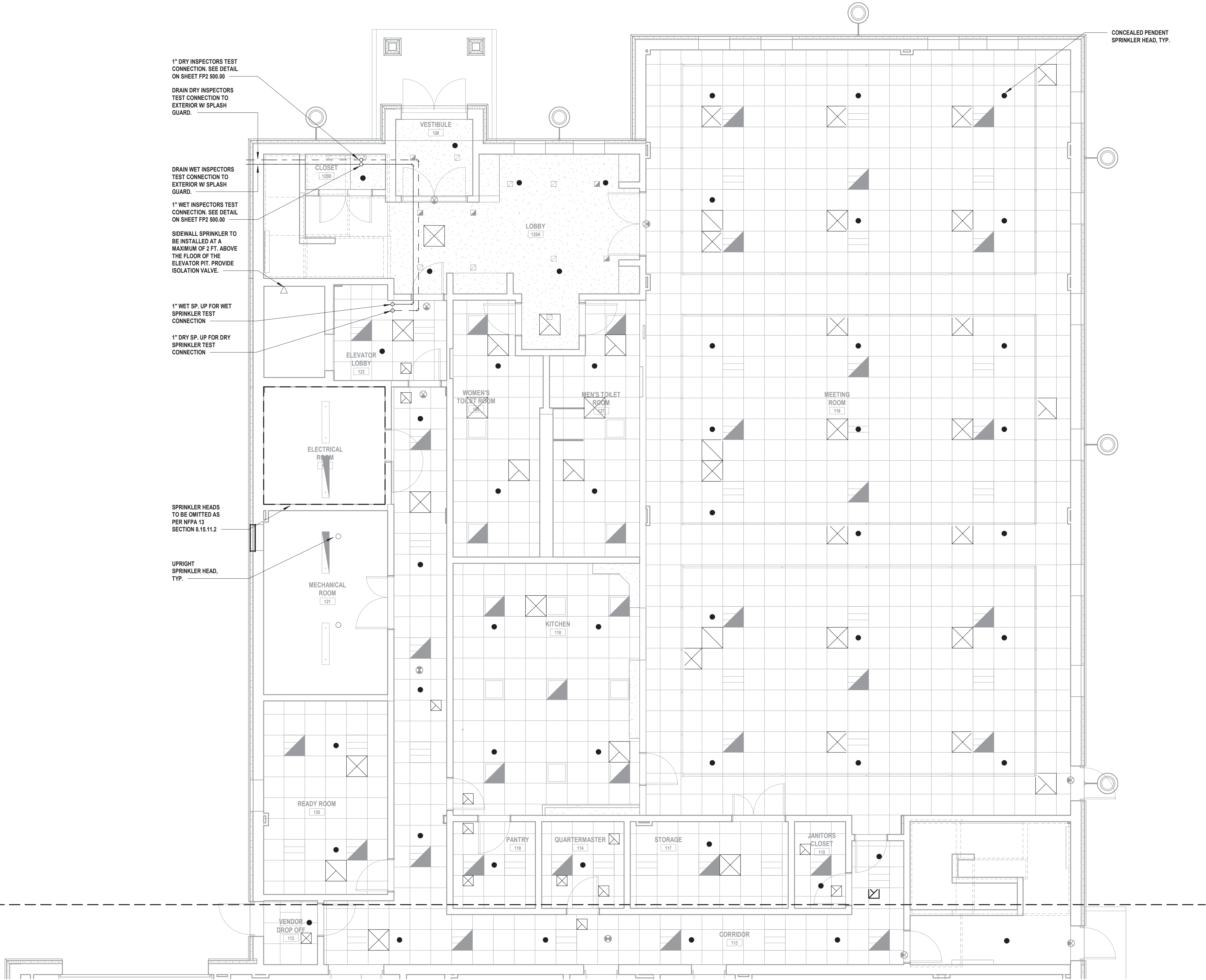
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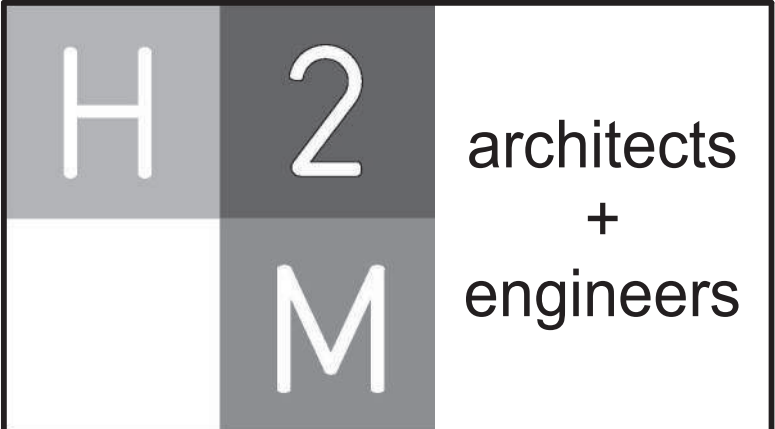
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1 / FP 100B
1 / FP 100A



① Fire Protection First Floor Plan - Area B
SCALE: 3/16" = 1'-0"



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PHASE 2**

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CONSULTANTS:		

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STATE OF NEW YORK
JONATHAN RICHARD MULLONE
0096440-1
LICENSED PROFESSIONAL ENGINEER

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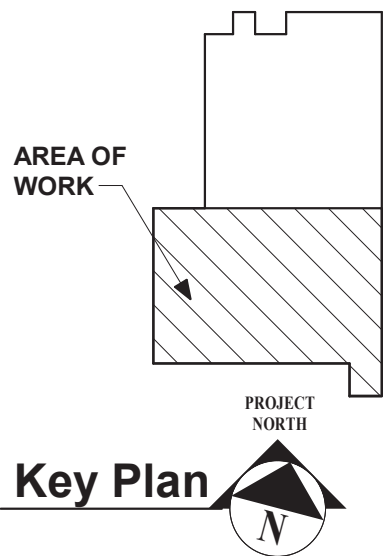
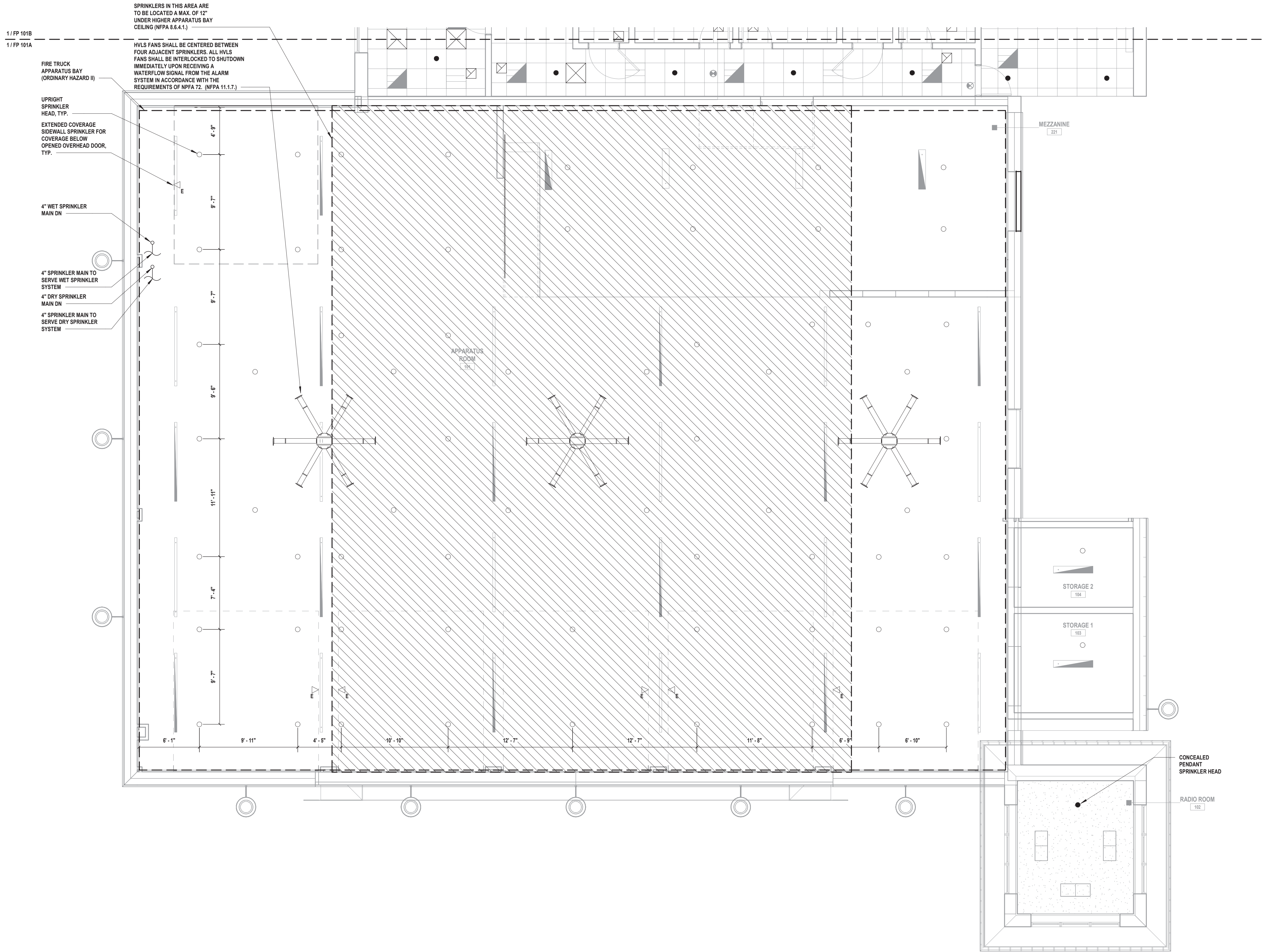
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FIRE PROTECTION
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NEW FIRE HOUSE
PHASE 2

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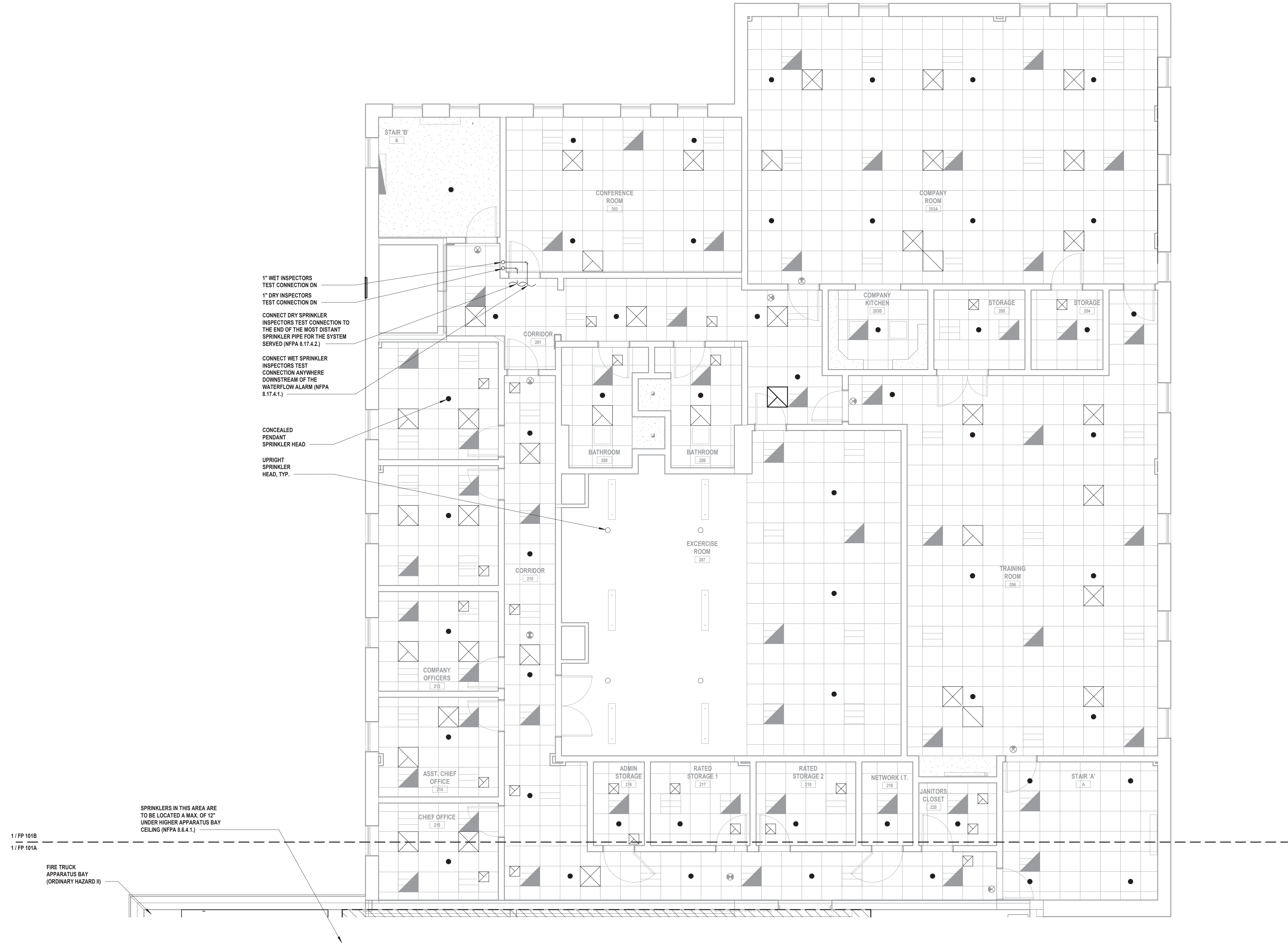
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1 Fire Protection Second Floor Plan - Area A
SCALE: 3/16" = 1'-0"

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1 Fire Protection Second Floor Plan - Area B
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engineers

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DATE: JULY 2022

CHECKED BY:
SCALE: AS SHOWN

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VAILS GATE FIRE DISTRICT

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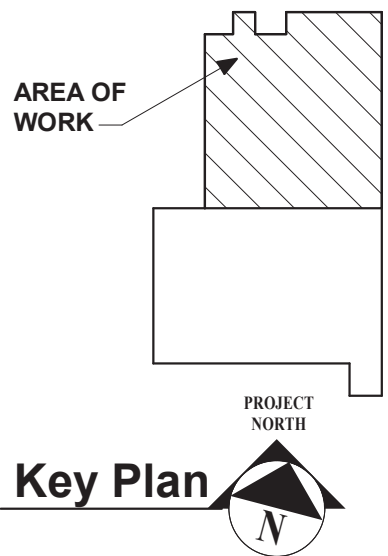
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New Fire Station (Phase II)



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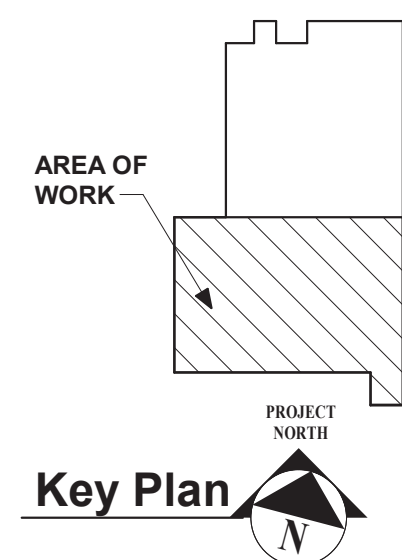
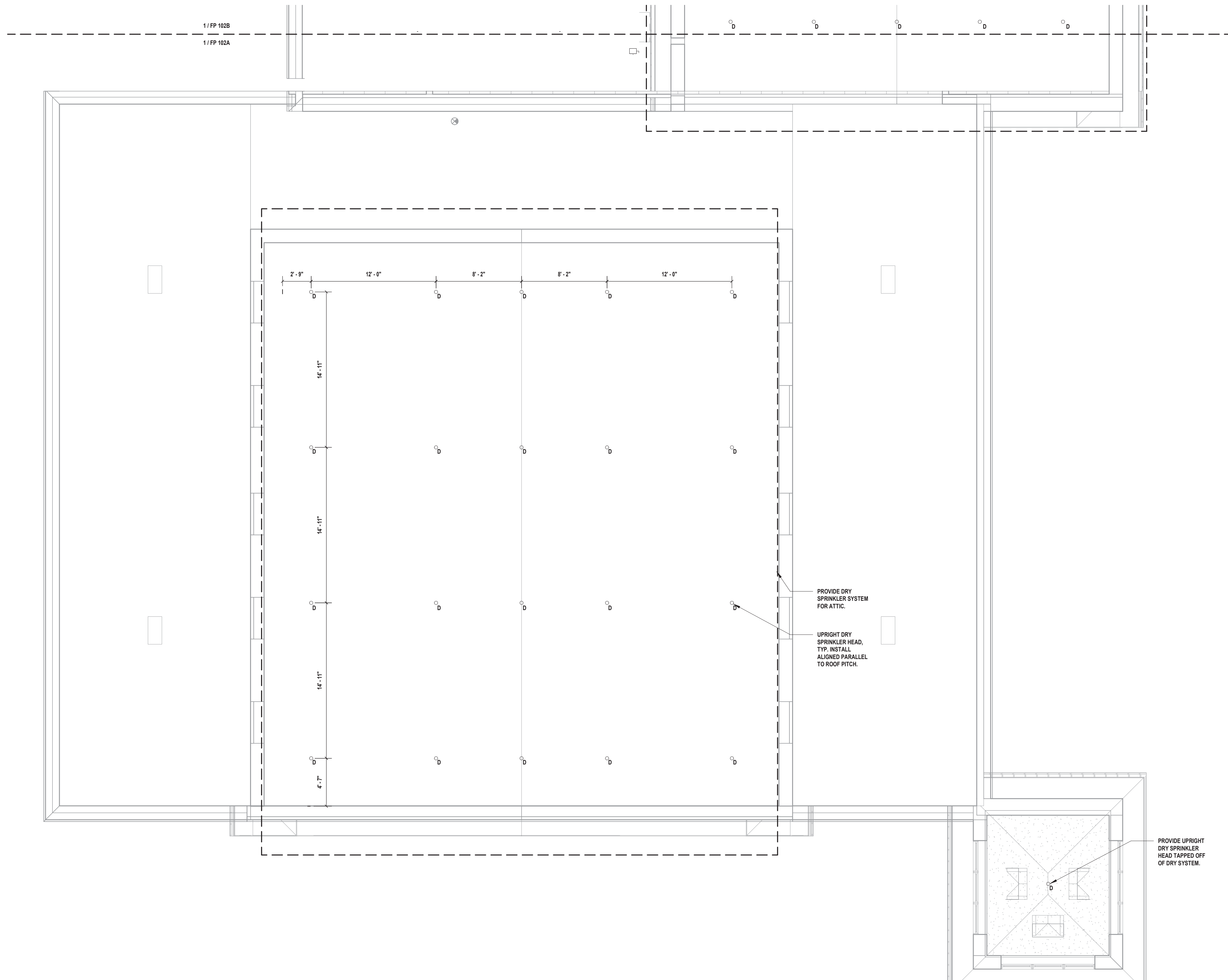
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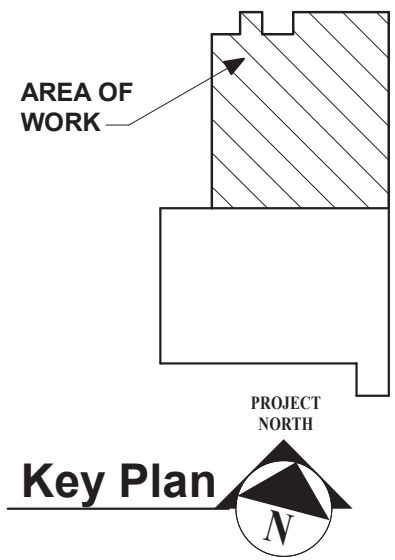
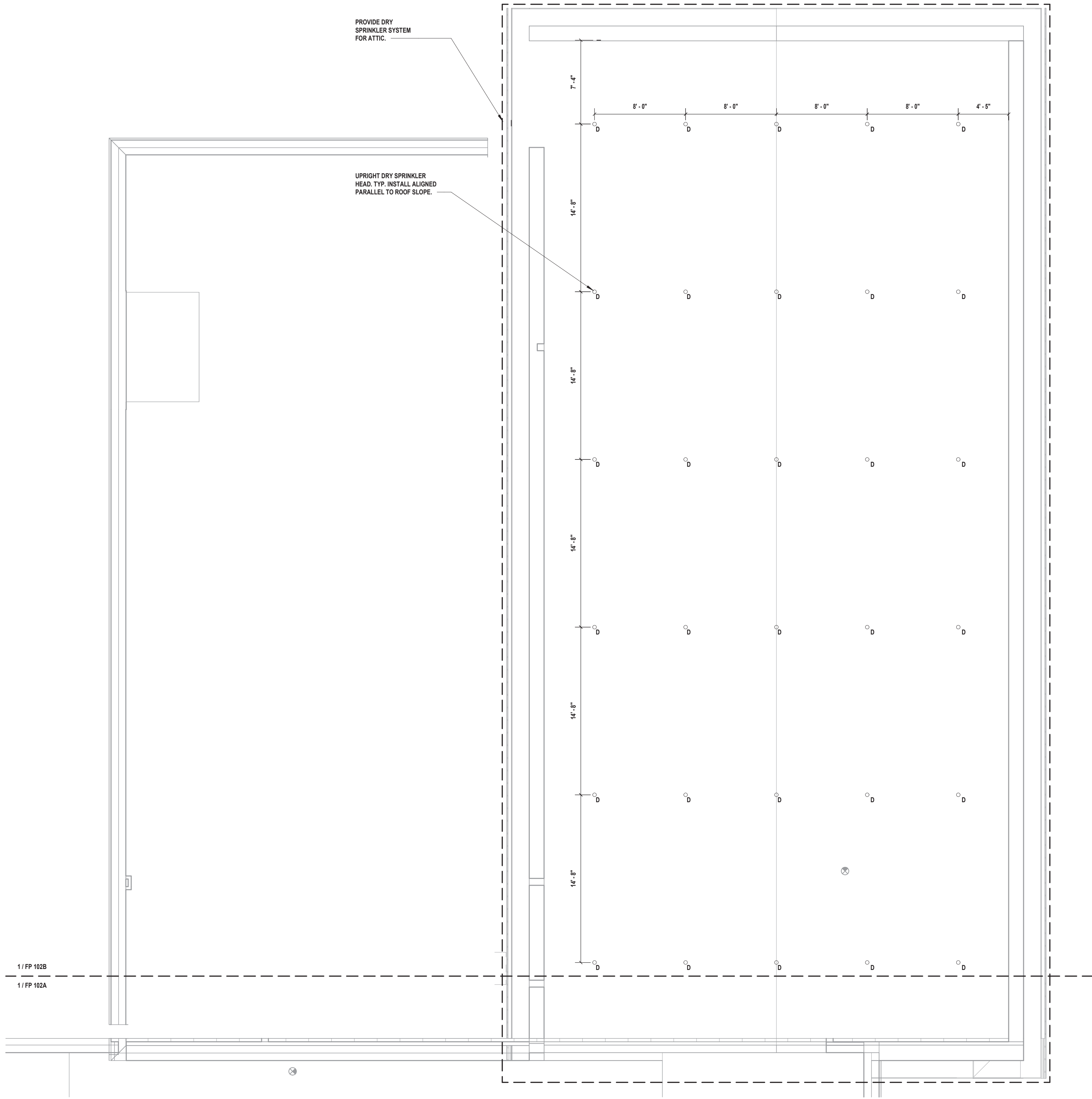
1 Fire Protection Attic Plan - Area A
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1 Fire Protection Attic Plan - Area B

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H2M architects + engineers

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