

**ABBREVIATIONS**

**Fire Protection Abbreviations**

(D)	DEMOLISHED
(E)	EXISTING
(R)	RELOCATED
Ø	DIAMETER
AAP	ALARM ANNUNCIATOR PANEL
ACC	ACCESSIBLE
ADO	AUTOMATIC DOOR OPENER
AFC	ABOVE FINISHED COUNTER
AFB	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BAT	BATTERY
BC	BARE COPPER
BFF	BELOW FINISH FLOOR
C	CONDUIT
CD	CONSTRUCTION DOCUMENTS
CF	CUBIC FEET
CKT	CIRCUIT
COMM	COMMUNICATIONS
CTL	CONTROL
DB	DECIBEL
DC	DIRECT CURRENT
EA	EACH
ELEV	ELEVATOR
F	FIRE WATER PIPING
F.V.	FIELD VERIFY
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEK	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOW SWITCH
FSD	FIRE SMOKE DAMPER
GRM	GALLONS PER MINUTE
HZ	HERTZ (FREQUENCY)
JB	JUNCTION BOX
MOP	MIDDLE OF PIPE
MTG	MOUNTING
NEC	NATIONAL ELECTRIC CODE
NOM	NOMINAL
PB	PULL BOX
PERP	PERPENDICULAR
PIV	PISTON INDICATOR VALVE
PNL	PANEL
PSI	POUNDS PER SQUARE INCH
PWR	POWER
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
REF	REFERENCE
SD	SMOKE DAMPER
SPR	SPRINKLER PIPING
STOR	STORAGE
SUSP	SUSPENDED
SWBD	SWITCHBOARD
TS	TAMPER SWITCH
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
V	VOLT
VA	VOLT-AMPERE
W	WIRE
W	WATT
WG	WIRE GUARD
WP	WEATHER-PROOF (NEMA 3R)

**SHEET INDEX**

FP0.1 GENERAL NOTES, FIRE PROTECTION SYMBOLS & ABBREVIATIONS

FP1.01 FIRE PROTECTION OVERALL PLAN  
 FP1.11 FIRE PROTECTION PLAN - AREA A  
 FP1.21 FIRE PROTECTION PLAN - AREA B  
 FP1.31 FIRE PROTECTION PLAN - AREA C

FP3.1 FIRE PROTECTION DETAILS

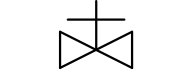






**GENERAL NOTES**

- 1 REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
- 2 THE CONTRACTOR SHALL PERFORM, DURING PHASE 2, 3, AND 4, SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
- 3 WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSIGNAL DRAINS AT COMPLETION OF CONSTRUCTION.
- 4 COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
- 5 THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
- 6 FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
- 7 LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
- 8 ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
- 9 LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
- 10 FIRE SEAL AROUND DUCT AND PIPING PENETRATIONS OF FIRE RATED WALLS. REFER TO SPECIFICATION.
- 11 PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
- 12 ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
- 13 REFER TO PIPING SERIES DRAWINGS FOR REFRIGERANT AND CONDENSATE DRAIN PIPING.
- 14 PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
- 15 FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, EQUIPMENT MANUALS, AND SPECIFICATIONS.
- 16 INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
- 17 LOCATIONS OF PIPING, DUCTWORK AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
- 18 INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL, TIGHT TO STRUCTURE, IN ROOMS WITHOUT CEILINGS.
- 19 CONTRACTOR SHALL NOT DRILL, NOTCH, OR PENETRATE ANY STRUCTURAL ELEMENT WITHOUT PRIOR WRITTEN CONSENT OF STRUCTURAL ENGINEER. COORDINATE REQUIRED NOTCHES, HOLES, AND PENETRATIONS WITH THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
- 20 AREAS, SCHEDULES, AND DETAILS, MARKED "NOT USED", GREYED/HALFTONED, OR LABELED PHASE 2, 3, OR 4, ARE NOT PART OF THE CURRENT SCOPE OF WORK. THEY PERTAIN TO FUTURE PHASES TO BE CONSTRUCTED AT A LATER DATE. PROVIDE WITHIN CURRENT PHASE PROVISIONS FOR FUTURE PHASE WORK/CONNECTIONS WHERE INDICATED IN DRAWINGS.
- 21 ALL EXPOSED STEEL DUCTWORK SHALL HAVE PAINT GRIP SURFACE, PAINT AND COLOR PER ARCHITECTURAL DIV. 09.
- 22 ALL PIPE INSULATION SHALL HAVE PAINTABLE JACKET, PAINT AND COLOR PER ARCHITECTURAL DIV. 09.

**GENERAL FIRE PROTECTION NOTES**

- 1.1
  - A. ALL FIRE PROTECTION WORK PERFORMED SHALL COMPLY WITH ALL CODES, LAWS AND GOVERNING BODIES. IF THE DRAWINGS AND/OR SPECIFICATIONS ARE MORE RESTRICTIVE OR EXCEED THE GOVERNING CODE REQUIREMENTS, THESE DRAWINGS AND SPECIFICATIONS SHALL GOVERN.
  - B. THE SPRINKLER DESIGN SHALL BE COORDINATED WITH ALL OTHER ASPECTS OF THE BUILDING. TO THAT END, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR REVIEWING THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND CIVIL DRAWINGS.
    1. REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING ELEVATIONS, CEILING DETAILS, PARTITIONS, AND OCCUPANCIES.
    2. REFER TO STRUCTURAL DRAWINGS TO COORDINATE PIPING LAYOUT WITH STRUCTURAL ELEMENTS OF THE BUILDING.
    3. REFER TO THE PLUMBING AND MECHANICAL DRAWINGS TO ASSESS THE CONGESTION ABOVE THE CEILINGS. THE SPRINKLER CONTRACTOR SHALL SPECIFICALLY BE CONSCIOUS OF ANY HORIZONTAL MECHANICAL EQUIPMENT LOCATIONS AS WELL AS THEIR SERVICE REQUIREMENTS.
    - a. THE MECHANICAL UNITS HAVE BEEN LOCATED IN AREAS THAT ALLOW FOR EASY ACCESS TO THE EQUIPMENT AND ACCESS PANELS. LEAVE ENOUGH SPACE FOR SERVICE PERSONNEL TO PERFORM MAINTENANCE OR REPAIR. PROVIDE SUFFICIENT ROOM TO MAKE WATER, ELECTRICAL AND DUCT CONNECTIONS.
    - b. IF ANY SPRINKLER PIPING IS RUN WITHIN THE EQUIPMENT SERVICE AREAS, THE PIPE SHALL BE REMOVED AND RE-ROUTED SO IT IS NOT WITHIN THE SERVICE AREA AT NO ADDITIONAL COST TO THE TENANT.
    - c. ALLOW ADEQUATE ROOM BELOW THE MECHANICAL UNIT FOR ACCESS. DO NOT LOCATE ANY PIPING SYSTEMS BELOW ANY SUSPENDED MECHANICAL EQUIPMENT.
    4. REFER TO THE ELECTRICAL DRAWINGS FOR THE INTERFACE BETWEEN THE FIRE SPRINKLER AND ALARM SYSTEMS.
    5. PROVIDE PROTECTION ABOVE CEILINGS WHENWHERE COMBUSTIBLE MATERIALS ARE LOCATED WITHIN THE CEILING PLENUM.
    6. PROVIDE HEAVY DUTY PROTECTIVE GUARDS FOR SPRINKLER HEADS IN ALL EXPOSED AREAS SUBJECT TO ABUSE (INCLUDING LOCKER ROOMS, MULTI-PURPOSE ROOMS, STORAGE, MECHANICAL AND ELECTRICAL ROOMS).
    7. PER NFPA 13, FIRE SPRINKLER PIPING SHALL BE SUPPORTED BY AN INDEPENDENT PIPE HANGER SYSTEM. FIRE SPRINKLER PIPING NOT BE SUPPORTED FROM OTHER PIPING, CONDUIT, OR DUCTWORK HANGING SYSTEMS.
    8. WHERE CEILINGS ARE TO BE INSTALLED, SPRINKLER PIPING SHALL BE INSTALLED WITHIN THE CEILING PLENUM UNLESS NOTED OTHERWISE ON THE DRAWINGS. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.
  - C. THE SPRINKLER SYSTEM FOR THIS FACILITY SHALL BE UP-SIZED TO ACCOMMODATE THE ANTICIPATED FUTURE PHASES AS SHOWN ON THESE PLANS.
  - D. THE SUCCESSFUL SPRINKLER CONTRACTOR SHALL CONDUCT A WATER FLOW TEST PRIOR TO THE DESIGN OF THE SPRINKLER SYSTEM.
- 1.2
  - A. THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THE SPRINKLER CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.
  - B. ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.
  - C. AESTHETICS AND FUNCTIONALITY ARE A PRIMARY CONSIDERATION WHEN INSTALLING SPRINKLERS AND SPRINKLER PIPING IN ALL AREAS.
1.
  1. THE DRAWINGS SHOW THE GENERAL INTENDED ROUTING FOR THE SPRINKLER MAINS. ALL PIPING AND DEVICES SHALL BE INSTALLED AS HIGH AS POSSIBLE.
  2. APPROVAL PRIOR TO INSTALLATION: NO WORK SHALL COMMENCE PRIOR TO APPROVAL OF SHOP DRAWINGS BY THE APPROVING AUTHORITIES. ANY CHANGE IN WORK THAT HAS BEEN INSTALLED PRIOR TO APPROVAL OF THE SHOP DRAWINGS SHALL BE MADE WITHOUT ADDITIONAL COMPENSATION TO CONTRACTOR.
  3. ANY FACET OF SPRINKLER INSTALLATION THAT DEVIATES FROM THE APPROVED SHOP DRAWINGS AND DOES NOT MEET WITH ENGINEER AND TENANT'S APPROVAL SHALL BE REVISED BY CONTRACTOR TO TENANT'S SATISFACTION AT NO ADDITIONAL COST.

**FIRE PROTECTION LEGEND**

	OS & Y VALVE
	VALVE IN RISER
	PIPING IDENTIFIER, SEE ABBREVIATIONS
	FIRE DEPARTMENT CONNECTION
	FLOW SWITCH
	GAUGE, AIR OR WATER AS NOTED ON DRAWINGS
	FLOW CALCULATION NODE

\*NOTE\*  
 ALL NOTES ON THIS SHEET ARE APPLICABLE TO ALL OTHER SHEETS IN THIS SET.  
 THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE APPLICABLE IN THIS SET OF DRAWINGS.

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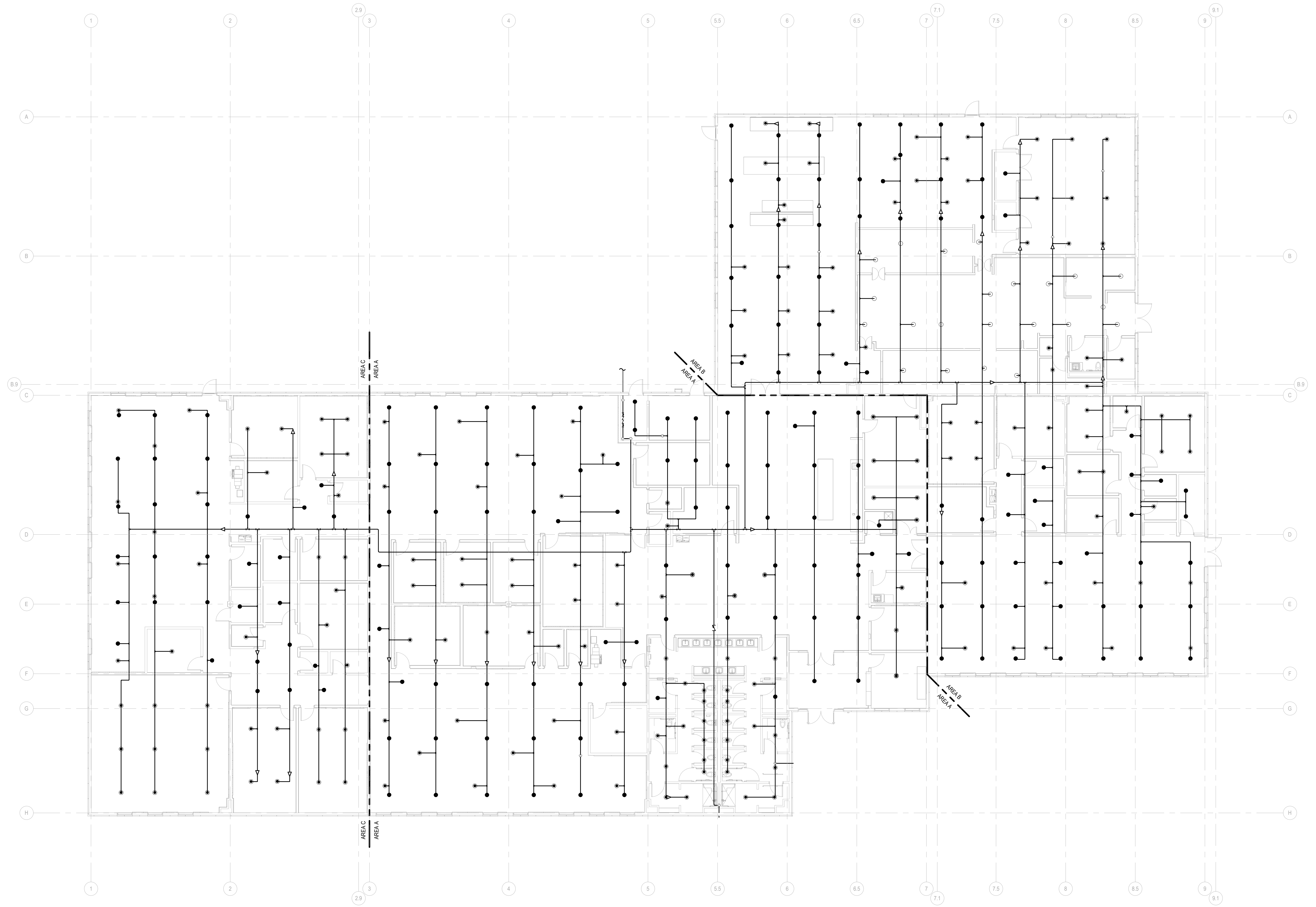
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**GENERAL NOTES, FIRE PROTECTION  
 SYMBOLS & ABBREVIATIONS**  
 SCALE: As indicated

SHEET NUMBER:  
**FP0.1**  
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**GENERAL NOTES**

1. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ONLY SHOW THE PREFERRED ROUTING OF SPRINKLER DISTRIBUTION MAINS, BRANCH LINES, AND PREFERRED SPRINKLER LOCATIONS.
2. PROVIDE SPRINKLER PROTECTION THROUGHOUT IN ACCORDANCE WITH NFPA 13, IN AREAS WHERE FIRE SUPPRESSION OR ARCHITECTURAL DRAWINGS INDICATE SPRINKLER LOCATIONS. COMPLY WITH THE DESIGN INTENT INDICATED BY THE DRAWINGS AND NFPA 13, IN AREAS WHERE FIRE SUPPRESSION OR ARCHITECTURAL DRAWINGS DO NOT INDICATE SPRINKLER LOCATIONS. COMPLY WITH NFPA 13.



**FIRE PROTECTION OVERALL PLAN**

SCALE: 1" = 10'-0"

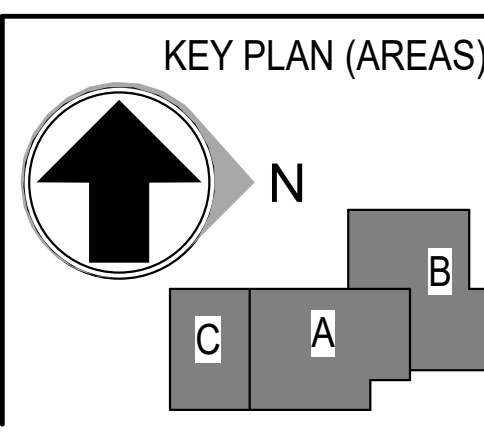
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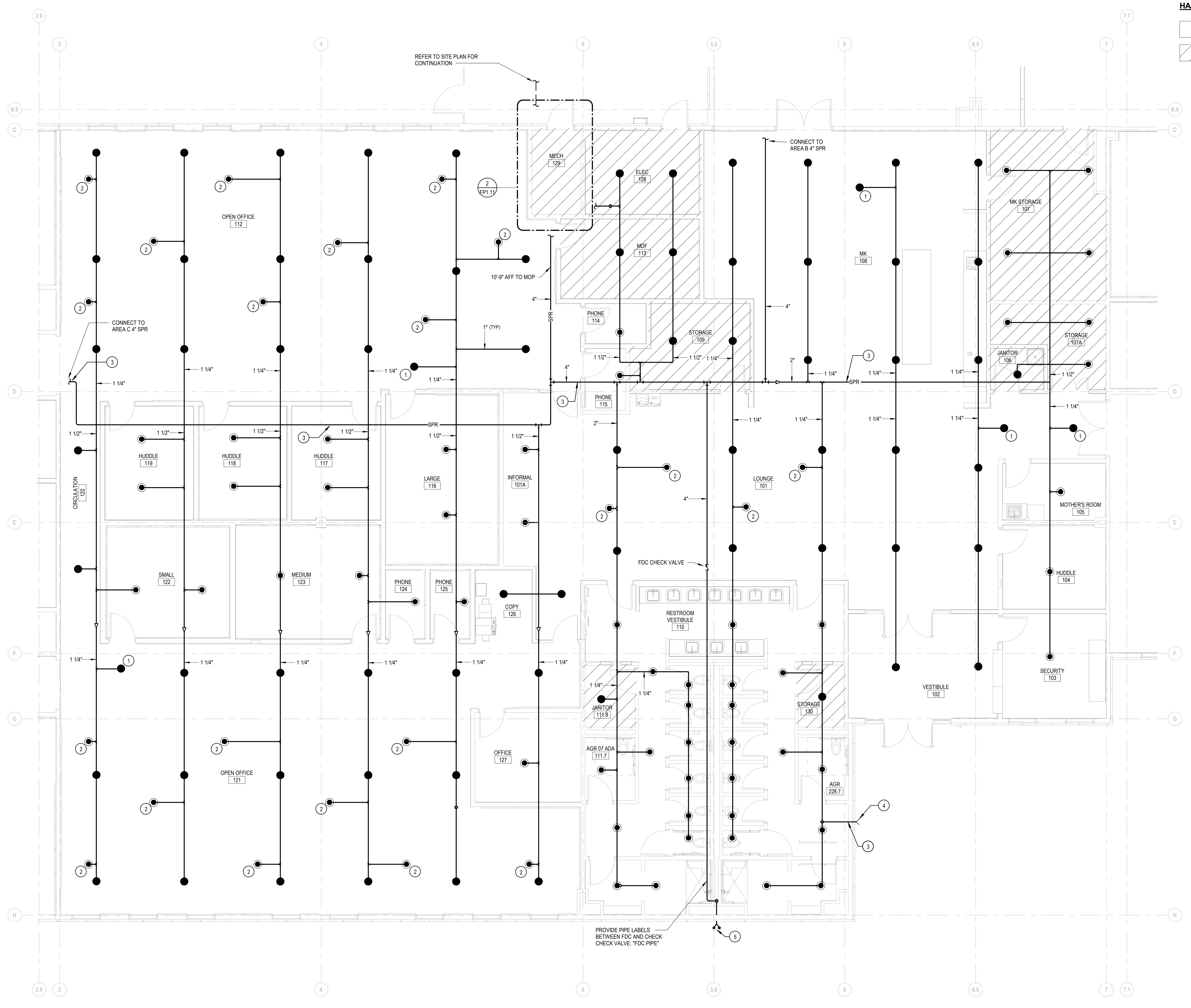
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**FIRE PROTECTION OVERALL PLAN**  
SCALE: 1" = 10'-0"

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**FP1.01**  
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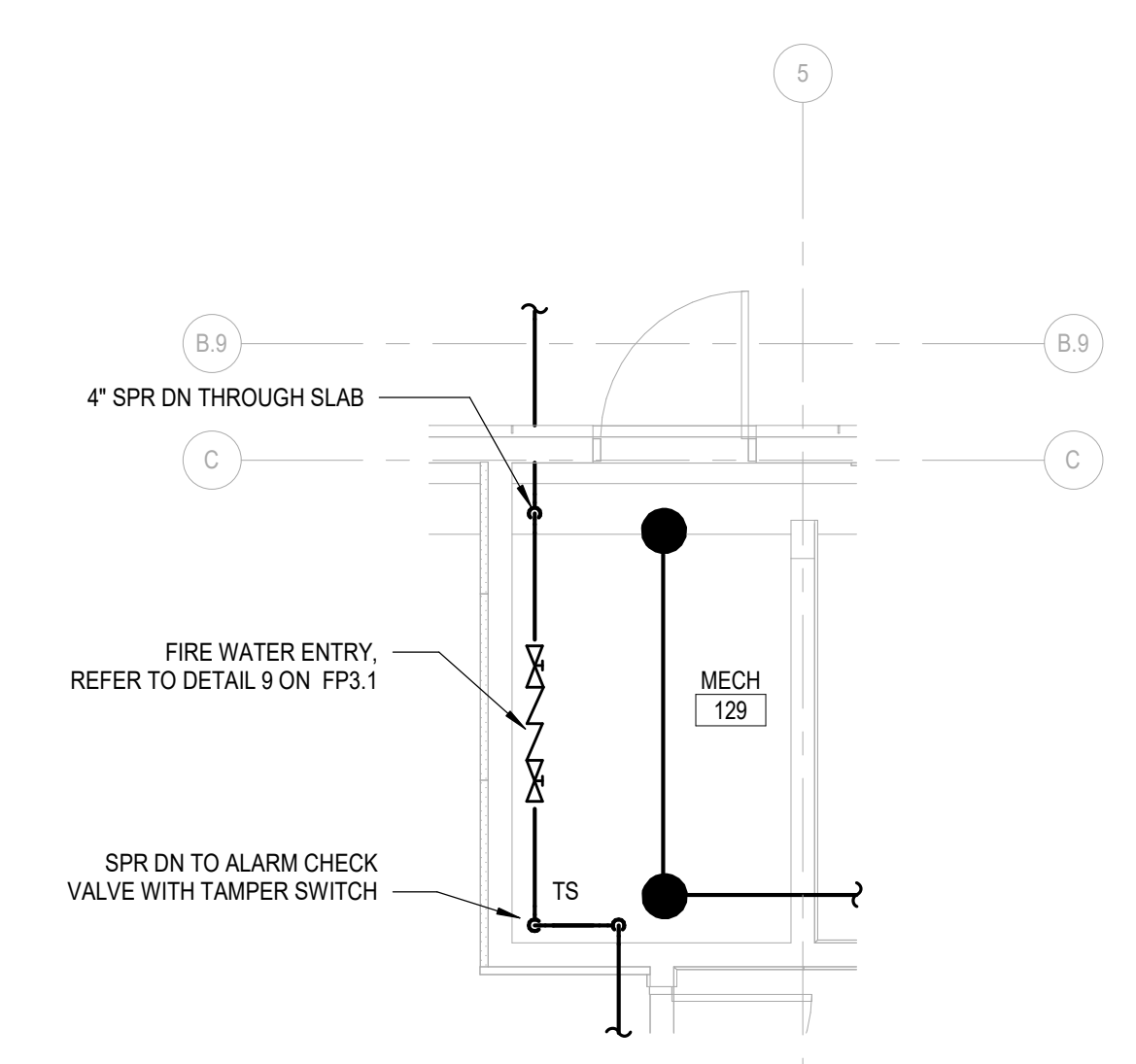
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**HAZARD CLASSIFICATION**

□ LIGHT HAZARD OCCUPANCY (ENTIRE BUILDING UNLESS NOTED OTHERWISE)

▨ ORDINARY HAZARD, GROUP 1 OCCUPANCY



**2 MECHANICAL ROOM PLAN**  
FP1.11/ SCALE: 1/4" = 1'-0"

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**SHEET NOTES**

- LOCATE SPRINKLER HEAD ABOVE AND BELOW AC UNIT.
- LOCATE CONCEALED SPRINKLER HEAD IN THE CENTER OF ACOUSTIC CEILING PANEL.
- PIPE PENETRATION REFER TO STRUCTURAL DRAWINGS FOR WEB HOLE CUTTING DETAIL.
- PROVIDE VIKING VK188 EXTENDED COVERAGE QUICK RESPONSE DRY HORIZONTAL SIDEWALL SPRINKLER HEAD 8\"/>
- 4\"/>

**SPRINKLER LEGEND - AREA A**

SYMBOL	MANUFACTURER	MODEL	K-FACTOR	TYPE	RESPONSE
●	VICTAULIC	FL-QR	5.6	UPRIGHT	QUICK
○	VICTAULIC	FL-SC	5.6	PENDENT	QUICK

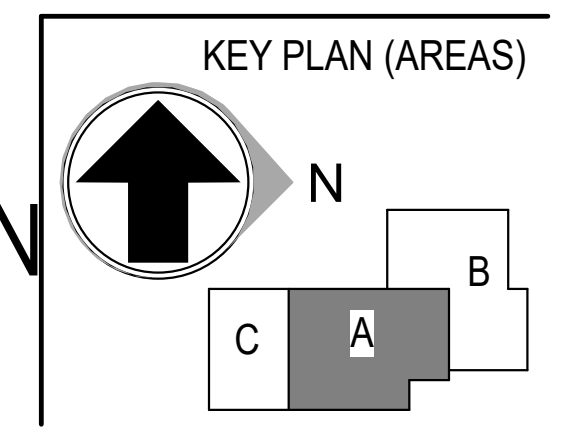
**FIRE PROTECTION PLAN - AREA A**  
SCALE: 3/16" = 1'-0"

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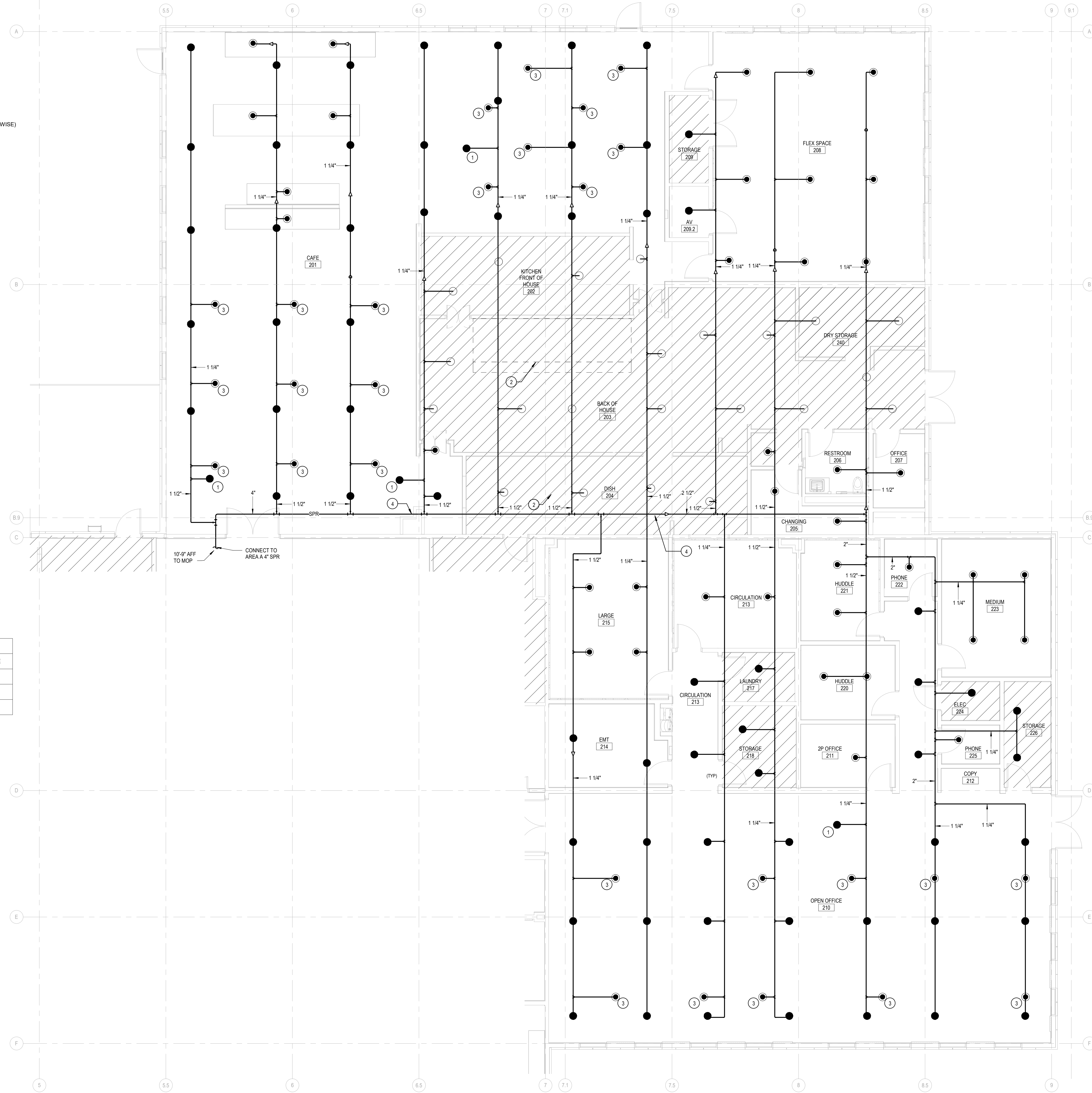
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**SHEET NOTES**

1. LOCATE SPRINKLER HEAD ABOVE AND BELOW AC UNIT.
2. TYPE I HOODS HAVE CHEMICAL SUPPRESSION, TYPE II HOODS REQUIRE SPRINKLER COVERAGE. COORDINATE WITH FOOD SERVICE EQUIPMENT LOCATIONS.
3. LOCATE CONCEALED SPRINKLER HEAD IN THE CENTER OF ACOUSTIC CEILING PANEL.
4. PIPE PENETRATION, REFER TO STRUCTURAL DRAWINGS FOR WEB HOLE CUTTING DETAIL.

**SPRINKLER LEGEND - AREA B**

SYMBOL	MANUFACTURER	MODEL	K-FACTOR	TYPE	RESPONSE	TEMPERATURE
●	VICTAULIC	FL-QR	5.6	UPRIGHT	QUICK	155 °F
●	VICTAULIC	FL-SC	5.6	PENDENT	QUICK	155 °F
○	VICTAULIC	FL-QR	5.6	PENDENT	QUICK	200 °F

**FIRE PROTECTION PLAN - AREA B**

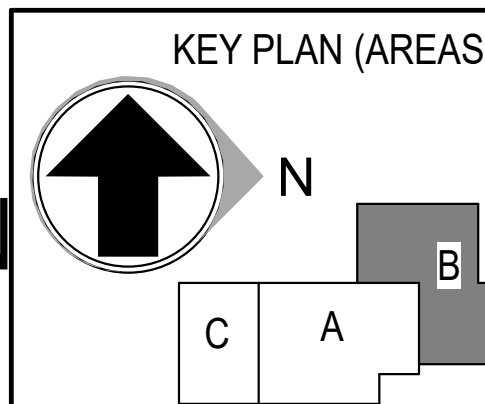
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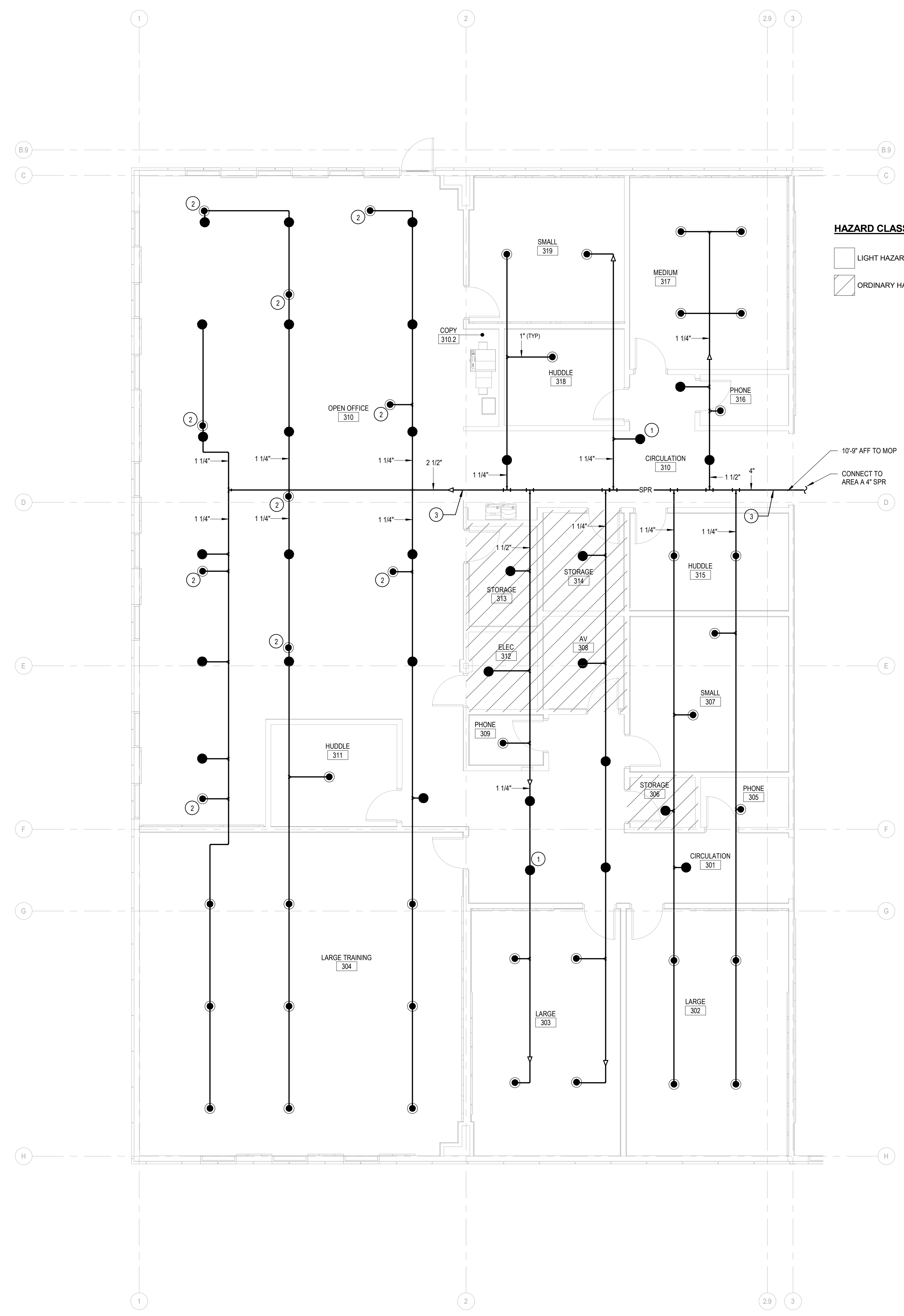
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**FIRE PROTECTION PLAN - AREA B**  
SCALE: As indicated

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**SHEET NOTES**

- LOCATE SPRINKLER HEAD ABOVE AND BELOW AC UNIT.
- LOCATE CONCEALED SPRINKLER HEAD AT THE CENTER OF ACOUSTIC CEILING PANEL.
- PIPE PENETRATION, REFER TO STRUCTURAL DRAWINGS FOR WEB HOLE CUTTING DETAIL.

SPRINKLER LEGEND - PHASE 3					
SYMBOL	MANUFACTURER	MODEL	K-FACTOR	TYPE	RESPONSE
●	VICTAULIC	FL-QR	5.6	UPRIGHT	QUICK
○	VICTAULIC	FL-SC	5.6	PENDENT	QUICK

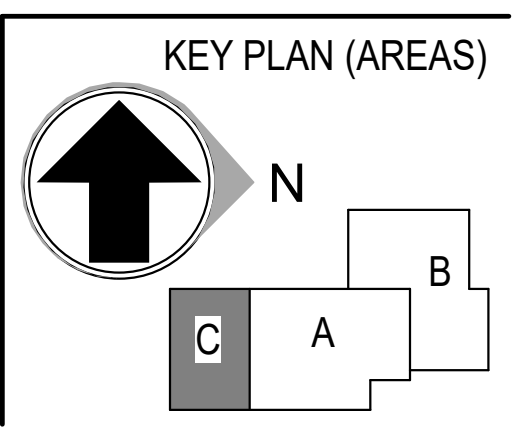
**FIRE PROTECTION PLAN - AREA C**  
SCALE: 3/16" = 1'-0"

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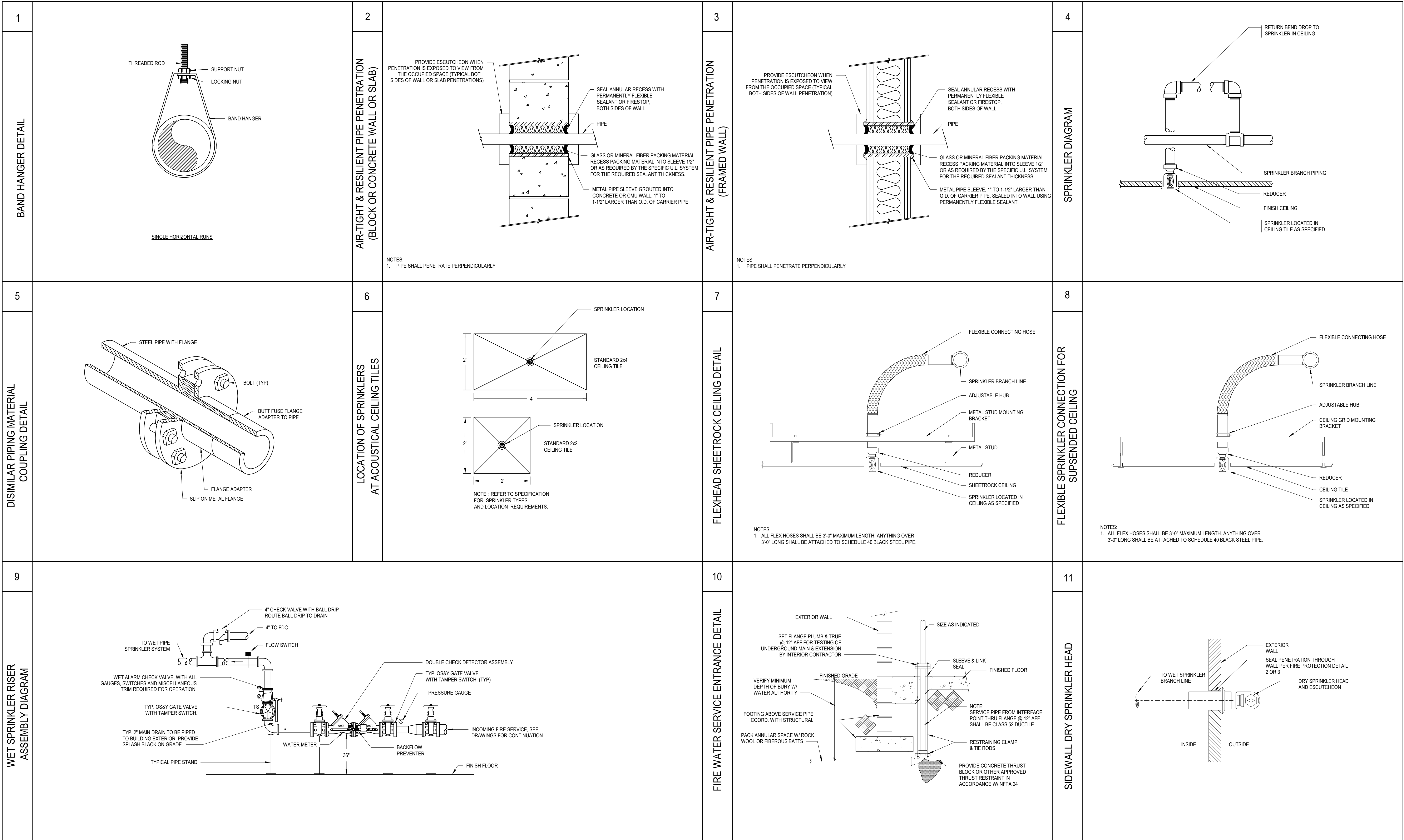
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APPRVD: BPR

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PROJ. NO. 43-25105-00

**FIRE PROTECTION PLAN - AREA C**  
SCALE: As indicated

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**FP1.31**  
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 DLR GROUP  
 6457 FRANCES ST., STE. 200  
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 1437 S BOULDER AVE.  
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CONFIDENTIAL CLIENT  
 ISSUE FOR CONSTRUCTION  
 2026-04-03

REVISIONS		
NO.	DATE	DESCRIPTION

DRAWN: IGH  
 APPRVD: BPR

DATA CENTER OFFICE  
 HUB  
 PROJECT ADDRESS:  
 TULSA COUNTY, OK  
 PROJ. NO. 43-25105-00

FIRE PROTECTION DETAILS  
 SCALE: As indicated

SHEET NUMBER:  
**FP3.1**  
 PHASE: ISSUE FOR CONSTRUCTION - HUB