

### SPRINKLER SPECIFICATIONS

**WET SYSTEMS - AREAS WITH NO HUNG CEILING:** AUTOMATIC UPRIGHT AND PENDENT HEADS SHALL BE TYCO FIRE PRODUCTS MODEL TY-FRB, BRASS PLATED FINISH.

**WET SYSTEMS - GYP. BD. OR ACOUSTICAL CEILING TILE - CONCEALED PENDENT AUTOMATIC SPRINKLER HEADS SHALL BE TYCO FIRE PRODUCTS MODEL RFI-QUICK RESPONSE, WITH WHITE COVER PLATE.**

- SPRINKLER HEADS WITHIN THE MECHANICAL, ELECTRICAL, TELEPHONE AND ELEVATOR MACHINE ROOMS AND WHERE ADDITIONALLY INDICATED SHALL BE RATED AT 212°F.
- ALL HEADS SHALL HAVE TEMPERATURE RATING OF 165°F UNLESS OTHERWISE NOTED.

### SPRINKLER DESIGN CRITERIA

BUILDING IS CLASSIFIED IN 'E' OCCUPANCY GROUP (LIGHT HAZARD) WITH INCIDENTAL STORAGE SPACES AND MECHANICAL SPACES (CLASSIFIED AS ORDINARY HAZARD GROUP 1). THERE ARE NO AREAS CLASSIFIED AS EXTRA HAZARD.

LIGHT HAZARD OCCUPANCY	(OFFICE AREAS, TOILET ROOMS LOBBY AREAS)
AREA OF APPLICATION:	1500 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	225 SQ. FT.
DESIGN DENSITY:	0.10 GPM PER SQUARE FOOT
SPACING BETWEEN SPRINKLERS:	15'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

ORDINARY HAZARD (GROUP 1) OCCUPANCY	(STORAGE ROOMS, MECH & ELEC EQUIPMENT SPACES)
AREA OF APPLICATION:	1500 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	130 SQ. FT.
DESIGN DENSITY:	0.15 GPM PER SQUARE FOOT
SPACING BETWEEN SPRINKLERS:	15'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

CLASS III COMMODITY STORAGE	(HIGH PILE STORAGE WAREHOUSE)
AREA OF APPLICATION:	2000 SQ. FT. (REMOTE AREA)
MAXIMUM COVERAGE PER SPRINKLER:	100 SQ. FT.
DESIGN DENSITY:	SEE DRAWINGS FOR DETAILS
SPACING BETWEEN SPRINKLERS:	10'-0" MAXIMUM
DISTANCE BETWEEN SPRINKLERS & WALLS:	1/2 OF ALLOWABLE DISTANCE BETWEEN SPRINKLERS

### FIRE PROTECTION DEMOLITION NOTES

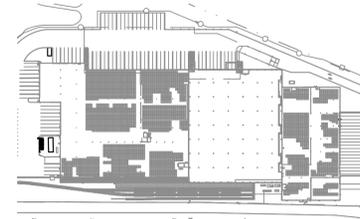
- GENERAL
  - PRIOR TO PROPOSAL SUBMISSION, THIS CONTRACTOR SHALL VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS ASSOCIATED WITH THE SCOPE OF WORK AND ADJACENT AREAS TO ASCERTAIN THE DIFFICULTIES WHICH WILL AFFECT THE EXECUTION OF THE WORK OF THIS CONTRACT.
  - SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT THE ABOVE SITE 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.
  - DEMOLITION WORK SHALL INCLUDE ALL MATERIALS, LABOR, EXTENSIONS, CONNECTIONS, CUTTING, REPAIRING, ADAPTING AND OTHER FIRE PROTECTION WORK REQUIRED TO MAINTAIN SERVICE PENDING THE COMPLETION OF THE PERMANENT WORK. COORDINATE THE EXTENT OF DEMOLITION WORK WITH THE ARCHITECT AND BUILDING MANAGEMENT.
- SCOPE OF WORK
  - ALL EXISTING WORK REQUIRED TO REMAIN BUT INTERFERING WITH PROPOSED NEW FIRE PROTECTION (AS WELL AS ELECTRICAL, MECHANICAL AND GENERAL CONSTRUCTION WORK) SHALL BE RELOCATED AND RECONNECTED USING MATERIALS CONFORMING TO STANDARDS OF THIS CONTRACT.
  - REMOVE ALL SPRINKLER HEADS, PIPING, VALVING AND HANGERS ASSOCIATED WITH PIPING TO BE REMOVED BACK TO MAINS. IDENTIFY ALL PIPING BY SERVICE TYPE AND CAP AT MAINS.
  - REMOVE EXISTING SPRINKLER WORK AS INDICATED BELOW:
    - REMOVE ALL EXISTING SPRINKLER WORK BACK TO RISER AND CAP, OR AS NOTED ON DRAWINGS.
    - CONTRACTOR TO CONTACT BUILDING MANAGEMENT AND TENANT REGARDING REMOVAL SCOPE OF WORK TO MAINTAIN CONTINUITY OF ALL SERVICES TO ALL TENANTS WHO ARE TO REMAIN OPERATIONAL AND NOT BE AFFECTED BY DEMOLITION WORK.
    - ALL EXISTING BUILDING SPRINKLER VALVES SHALL REMAIN.
  - PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING PIPING TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILING AND PARTITIONS.
  - ALL MATERIALS AND EQUIPMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS.
  - COORDINATE WITH OWNER TO DETERMINE WHETHER EQUIPMENT IS TO BE TURNED OVER FOR FUTURE USE AND STORED IN THEIR ASSOCIATED STORAGE LOCATIONS.
  - WHEN EXISTING SPRINKLER SYSTEM IS DEACTIVATED THIS CONTRACTOR, TO DESIGN, FILE AND PROVIDE A TEMPORARY SPRINKLER LOOP (OR REQUIRED SPRINKLER PROTECTION WITHIN THE CONSTRUCTION SPACE (PARTIAL FLOOR CONSTRUCTION) SUBJECT TO FIRE DEPARTMENT APPROVAL) AROUND THE CORE CONSTRUCTION ACCESS PATHS OR PROVIDE A 24 HOUR FIREHATCH (SUBJECT TO FIRE DEPARTMENT APPROVAL) UNTIL NEW SPRINKLER SYSTEM BECOMES ACTIVE. INCLUDE ALL IN BID PRICE.

### FIRE PROTECTION NOTE

- THIS CONTRACTOR SHALL PROVIDE FIRE PROTECTION THROUGHOUT THE ENTIRE SPACE WITHIN THE SCOPE OF WORK AS REQUIRED BY THE LOCAL CODES, LOCAL FIRE DEPARTMENT REGULATIONS, BUILDING MANAGEMENT REQUIREMENTS AND NFPA 13 FOR THE DURATION OF THE PROJECT. ANY TEMPORARY FIRE PROTECTION SHALL BE REMOVED UPON ACTIVATION OF PERMANENT FIRE PROTECTION SYSTEM.
- SPRINKLER HEADS SHALL BE  $\pm 3/8"$  FROM CENTER OF TILE. 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.
- MINIMUM PIPE SIZE TO ANY SPRINKLER HEAD SHALL BE 1 INCH.
- SPRINKLER PIPE SIZES SHOWN ARE FOR COST ESTIMATING ONLY, AND FOR FILING WITH THE BUILDING DEPARTMENT. THIS CONTRACTOR IS TO PROVIDE THEIR OWN HYDRAULIC CALCULATIONS TO VERIFY PIPE SIZING AND INCLUDE ANY INCREASED/DECREASED PIPE SIZING WITHIN THEIR CONTRACT PRICE.

### PLOT PLAN

NOT TO SCALE



### SPRINKLER LEGEND

○	NEW UPRIGHT SPRINKLER	⊠	OS&Y VALVE W/ TS
⊙	NEW PENDENT SPRINKLER	⊠	CHECK VALVE
◄	NEW SIDEWALL SPRINKLER	⊠	PRESSURE REDUCING VALVE
●	NEW PENDENT CONCEALED SPRINKLER	⊠	VALVE TAMPER SWITCH
○	EXISTING UPRIGHT SPRINKLER	⊠	FLOOR CONTROL VALVE ASSEMBLY
⊙	EXISTING PENDENT SPRINKLER	⊠	SIAMESE CONNECTION
◄	EXISTING SIDEWALL SPRINKLER	⊠	FIRE HOSE CABINET
●	EXISTING PENDENT CONCEALED SPRINKLER	⊠	FIRE HOSE RACK
⊗	EXISTING UPRIGHT SPRINKLER TO BE REMOVED	⊠	FIRE HOSE VALVE
⊠	NEW UPRIGHT SPRINKLER, RATED AT 212°F	⊠	3-WAY ROOF MANIFOLD
⊠	NEW PENDENT CONCEALED SPRINKLER, PREACTION	⊠	SPRINKLER PREACTION VALVE
⊠	PIPE UP	⊠	SMOKE DETECTOR
⊠	PIPE DROP	⊠	HEAT DETECTOR
⊠	BOTTOM CONNECTION	⊠	MANUAL PULL STATION
⊠	TOP CONNECTION		
⊠	CAP		

### LINE REPRESENTATION

—	NEW SPRINKLER PIPING
—	EXISTING SPRINKLER PIPING
- - - -	NEW DRAIN PIPING
- X - X -	EXISTING SPRINKLER PIPING TO BE REMOVE AND DISCARDED
⊠	REMOVE EXISTING SPRINKLER HEAD AND ASSOCIATED DROP NIPPLES BACK TO HORIZONTAL PIPING AND EXTEND NEW PIPING TO NEW HEAD LOCATION AS REQUIRED.

### DRAWING NOTATIONS

⊠	DRAWING HEXAGON NOTE TAG
⊠	DRAWING CIRCLE NOTE TAG
⊠	TAG SECTION DESIGNATION ON DRAWING WHERE SECTION IS CUT A-SECTION DESIGNATION B-DRAWING NUMBER
⊠	POINT OF NEW CONNECTION TO EXISTING
⊠	POINT OF DISCONNECTION FROM EXISTING
⊠	REVISION SYMBOL
⊠	RISER SYSTEM RISER NUMBER
→	PIPING FLOW DIRECTION
⊠	HYDRAULIC NODE DESIGNATION
⊠	HYDRAULIC PIPE DESIGNATION

### ABBREVIATION

ABD	AUTOMATIC BALL DRIP
AFF	ABOVE FINISHED FLOOR
DR	DRAIN
FCVA	FLOOR CONTROL VALVE ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FHVC	FIRE HOSE VALVE CABINET
FSP	FIRE STANDPIPE
SP	SPRINKLER
PRV	PRESSURE REDUCING VALVE
RCV	RISER CONTROL VALVE
TS	TAMPER SWITCH
WF	WATERFLOW SWITCH

### SPRINKLER DRAWING LIST

F-001	FIRE PROTECTION LEGEND, NOTES AND DETAILS
F-100	FIRE PROTECTION 10 DUNNIGAN DRIVE DEMOLITION FLOOR PLAN
F-101	FIRE PROTECTION 20 DUNNIGAN DRIVE DEMOLITION FLOOR PLAN
F-102	FIRE PROTECTION 20 DUNNIGAN DRIVE DEMOLITION FLOOR PLAN
F-103	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 1
F-104	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 2
F-105	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 3
F-106	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 4
F-107	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 5
F-108	FIRE PROTECTION L1 FLOOR PLAN QUADRANT 6
F-109	FIRE PROTECTION L2 FLOOR PLAN
F-110	FIRE PROTECTION L3 FLOOR PLAN
F-111	FIRE PROTECTION L4 FLOOR PLAN
F-401	FIRE PROTECTION L1 FLOOR PART PLAN
F-402	FIRE PROTECTION L1 FLOOR ENLARGED PART PLAN
F-403	FIRE PROTECTION L3 ENLARGED PART PLAN
F-501	FIRE PROTECTION DETAILS
F-701	FIRE PROTECTION RISER DIAGRAM
F-801	FIRE PROTECTION SPECIFICATIONS
F-902	FIRE PROTECTION SPECIFICATIONS

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY : M.ESPINAL

CHECKED BY : J.CLARK

APPROVED BY : J.MIZRAHI

DATE : 04/16/21

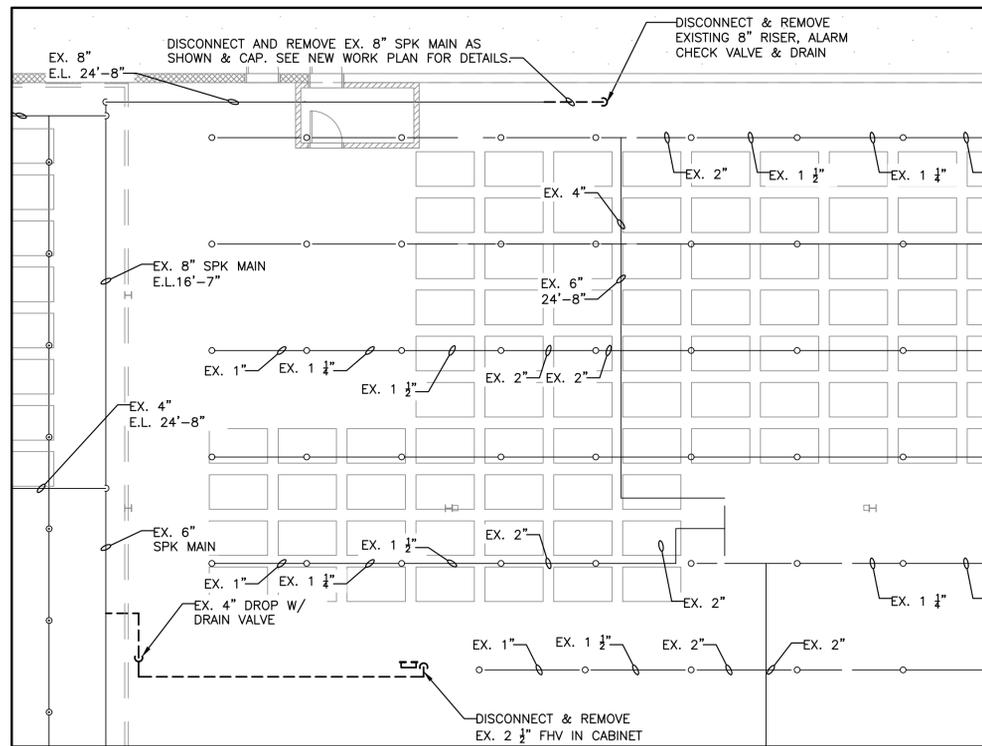
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DRAWING TITLE :

FIRE PROTECTION LEGEND  
AND NOTES

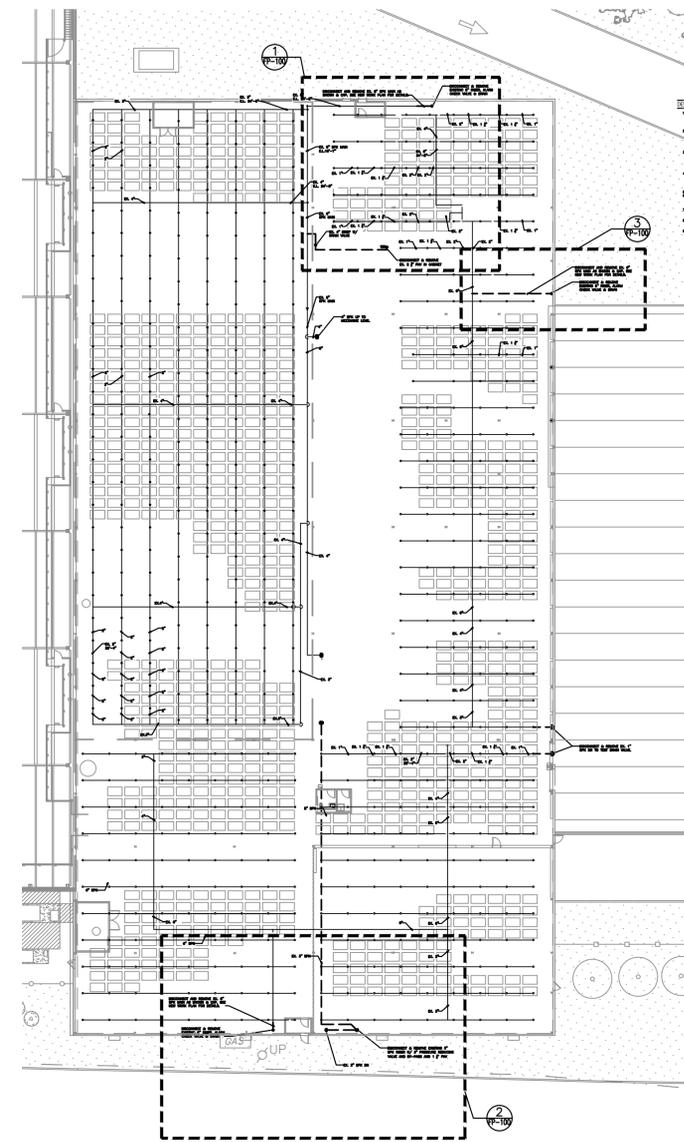
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F-001

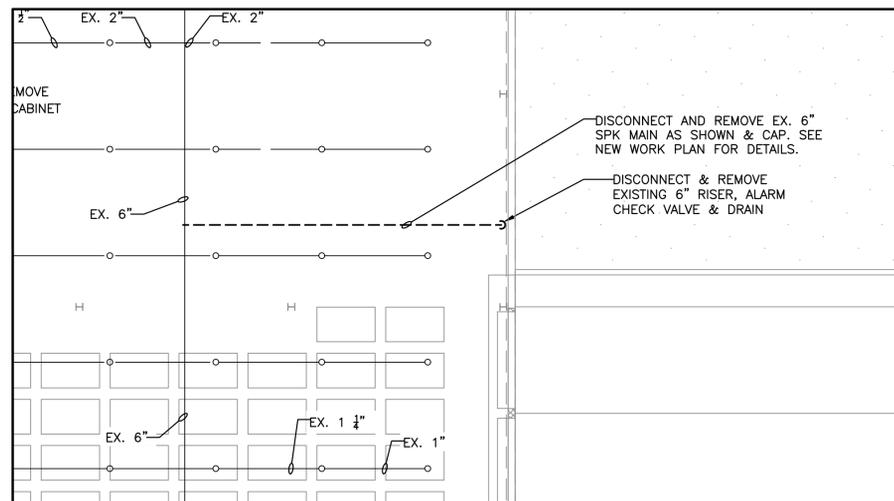
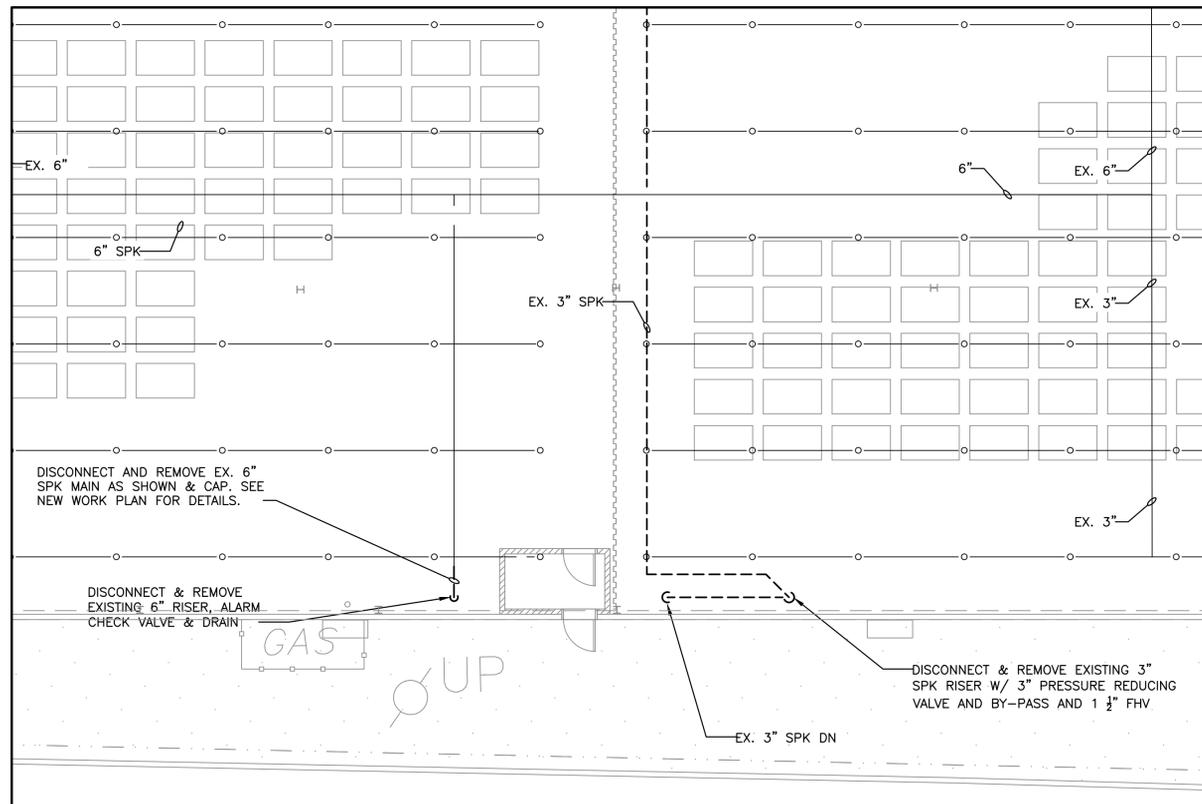


**DEMOLITION NOTES**

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**10 DUNNIGAN DEMOLITION KEY PLAN**  
SCALE: 1/32" = 1'-0"



**1ST FLOOR DEMOLITION PART PLAN**  
SCALE: 1/8" = 1'-0"

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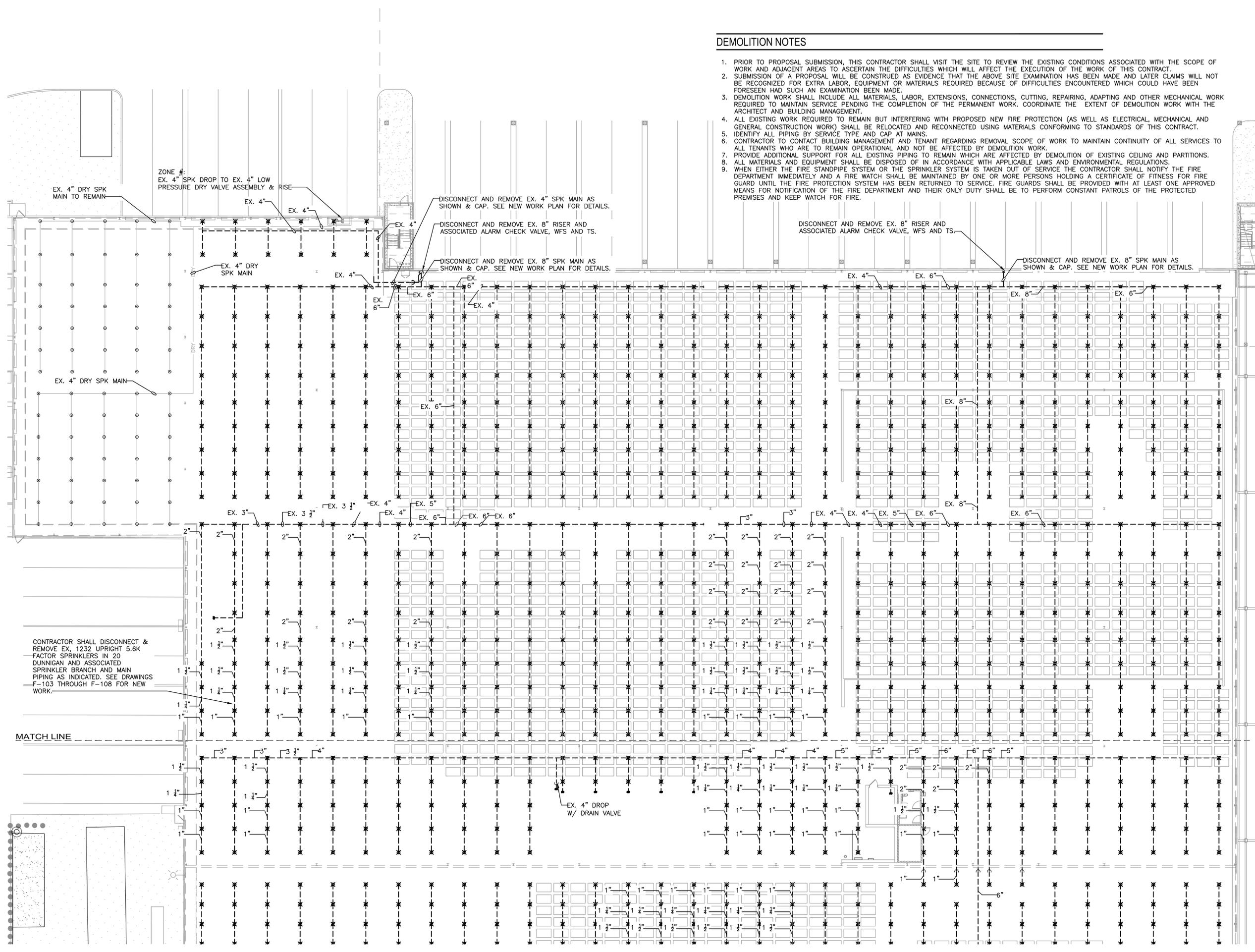
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DRAWN BY: M.ESPINAL  
CHECKED BY: J.CLARK  
APPROVED BY: J.MIZRAHI  
DATE: 04/16/21  
SCALE: SEE PLANS

DRAWING TITLE:  
**SPRINKLER 10 DUNNIGAN  
DEMOLITION PLAN**

DWG NUMBER:  
**F-100**



**DEMOLITION NOTES**

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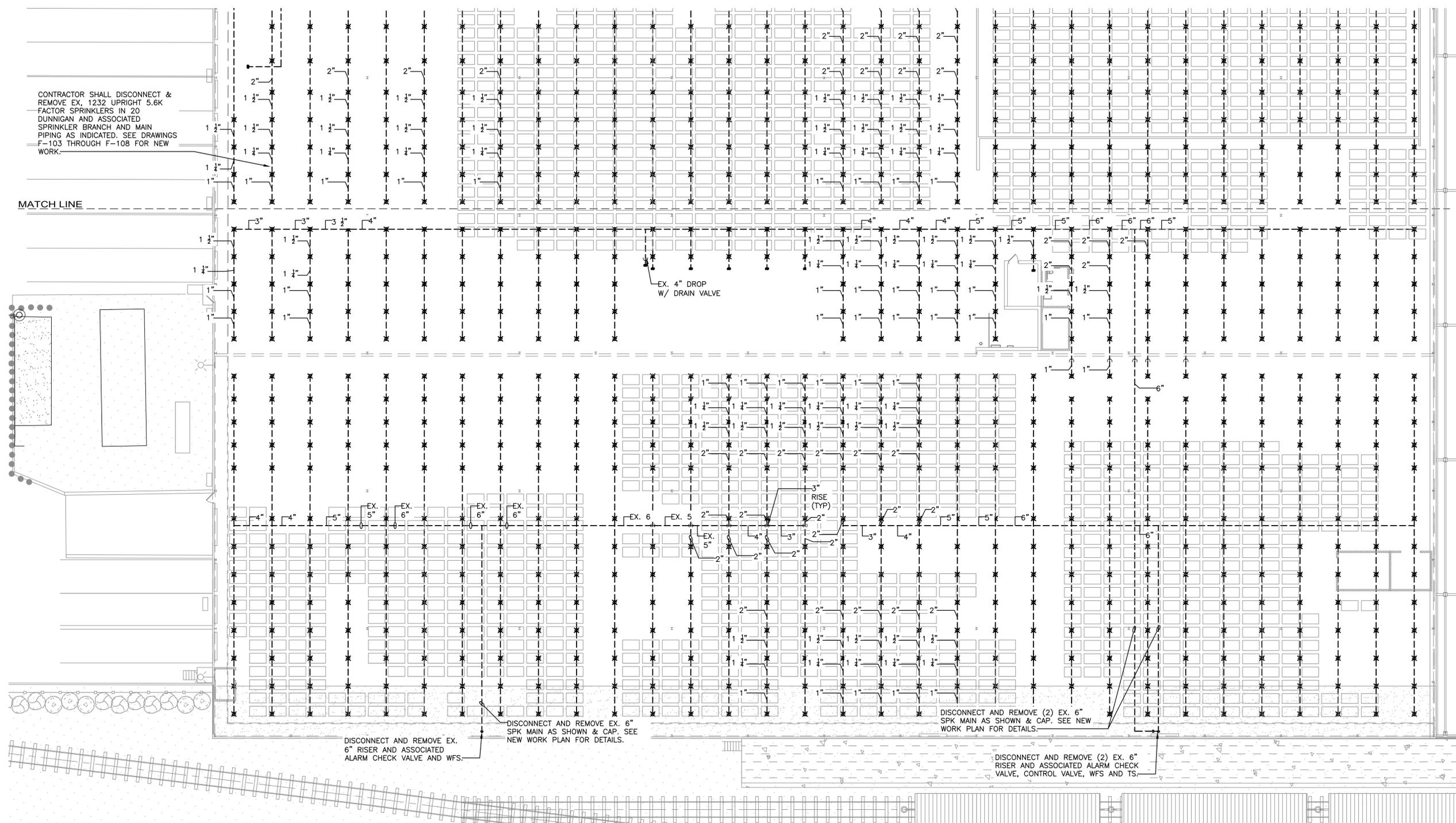
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CHECKED BY:	J.CLARK
APPROVED BY:	J.MIZRAHI
DATE:	04/16/21
SCALE:	1/16" = 1'-0"
DRAWING TITLE:	

**SPRINKLER 20 DUNNIGAN  
 NORTH FLOOR PLAN**

DWG NUMBER:  
**F-102**



**DEMOLITION NOTES**

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KEY PLAN

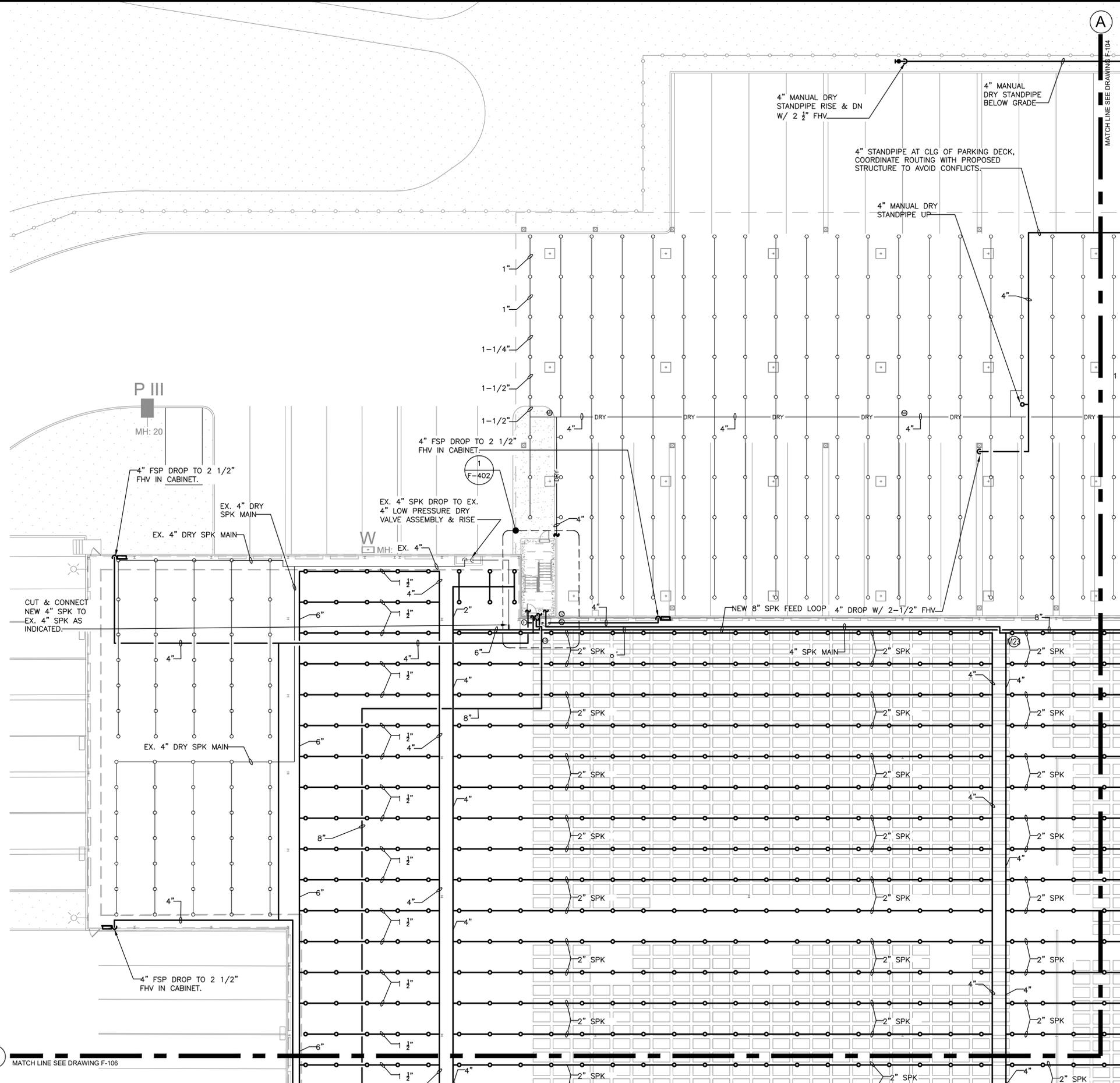
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DRAWN BY: M.ESPINAL  
 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: 1/16" = 1'-0"

**FIRE PROTECTION 20 DUNNIGAN  
 SOUTH DEMOLITION PLAN**

DWG NUMBER:

**F-101**



**HYDRAULIC NOTES:**

1) PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.

2) HYDRAULIC DESIGN DATA/CRITERIA AREA #7:  
 ORDINARY HAZARD, GROUP 2  
 K-FACTOR: 8  
 NUMBER OF FLOWING SPRINKLERS: 12  
 DENSITY: 0.20 G.P.M  
 REMOTE AREA: 1500 SQ. FT.

**SPRINKLER NOTES**

- 1) CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
- 2) CONTRACTOR SHALL COORDINATE ROUTING OF NEW SPRINKLER PIPING WITH THE PROPOSED STRUCTURE AND ALL TRADES TO AVOID CONFLICTS.
- 3) DESIGN DRAWINGS ARE SCHEMATIC. PIPING IS SHOWN APPROXIMATELY ONLY. EXACT LOCATION MUST BE DETERMINED BY THE SPRINKLER CONTRACTOR IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- 4) THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- 5) BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- 6) PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE. THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER. SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.

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**MANHATTAN BEER DISTRIBUTORS**  
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KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY: M.ESPINAL

CHECKED BY: J.CLARK

APPROVED BY: J.MIZRAHI

DATE: 04/16/21

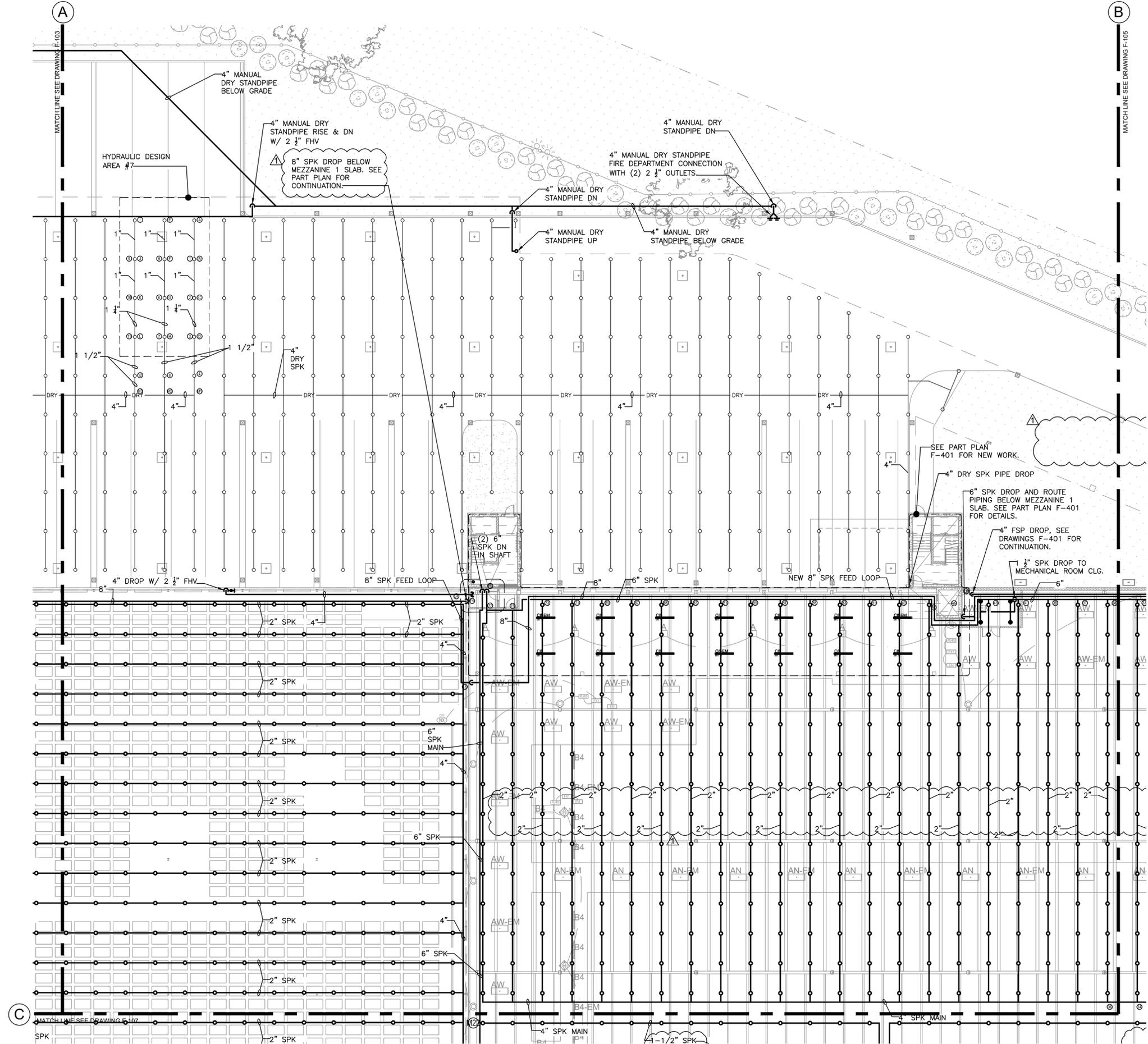
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DRAWING TITLE:

**FIRE PROTECTION L1 FLOOR  
 PLAN QUADRANT 1**

DWG NUMBER:

**F-103**



**HYDRAULIC NOTES:**

- PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
- HYDRAULIC DESIGN DATA/CRITERIA AREA #1:  
CONTROL MODE DENSITY SPRINKLERS  
CLASS III ENCAPSULATED STORAGE FOR 50 FT RACK HEIGHT, MULTIPLE ROW RACKS  
CEILING HEIGHT 55'-0" AFF  
K-FACTOR: 14  
NUMBER OF FLOWING SPRINKLERS: 20  
DENSITY: 0.37 G.P.M/ SQ. FT  
REMOTE AREA: 2000 SQ. FT

**SPRINKLER NOTES**

- CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
- CONTRACTOR SHALL COORDINATE ROUTING OF NEW SPRINKLER PIPING WITH THE PROPOSED STRUCTURE AND ALL TRADES TO AVOID CONFLICTS.
- DESIGN DRAWINGS ARE SCHEMATIC. PIPING IS SHOWN APPROXIMATELY ONLY. EXACT LOCATION MUST BE DETERMINED BY THE SPRINKLER CONTRACTOR IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
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- BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE. THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER. SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.

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KEY PLAN

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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY: M.ESPINAL  
CHECKED BY: J.CLARK  
APPROVED BY: J.MIZRAHI  
DATE: 04/16/21  
SCALE: 1/16" = 1'-0"

DRAWING TITLE:

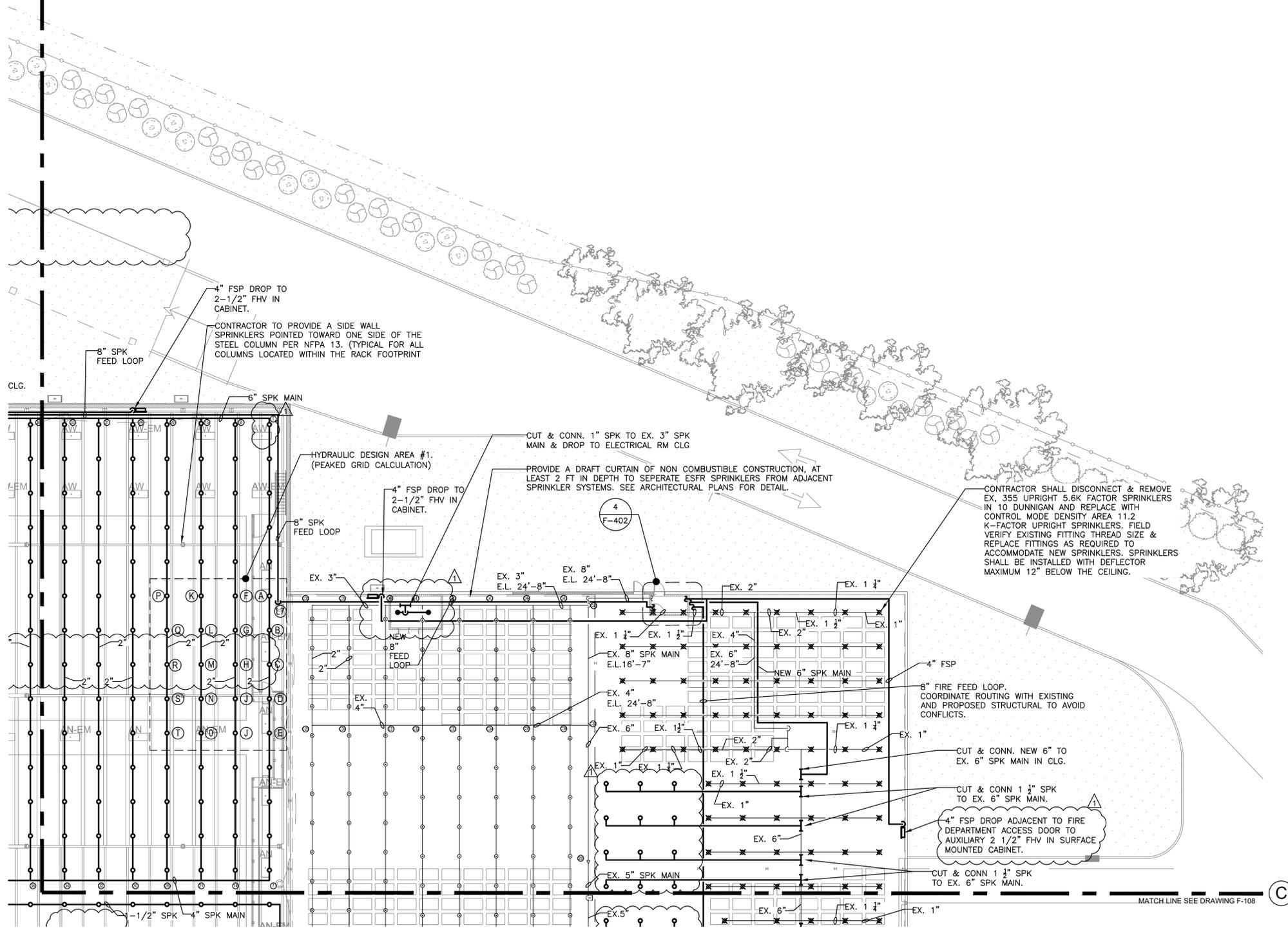
**FIRE PROTECTION L1 FLOOR  
PLAN QUADRANT 2**

DWG NUMBER:

**F-104**

B

MATCHLINE SEE DRAWING F-04



1 PARTIAL WAREHOUSE FLOOR PLAN  
 F-105 1/16" = 1'-0"

**SPRINKLER NOTES**

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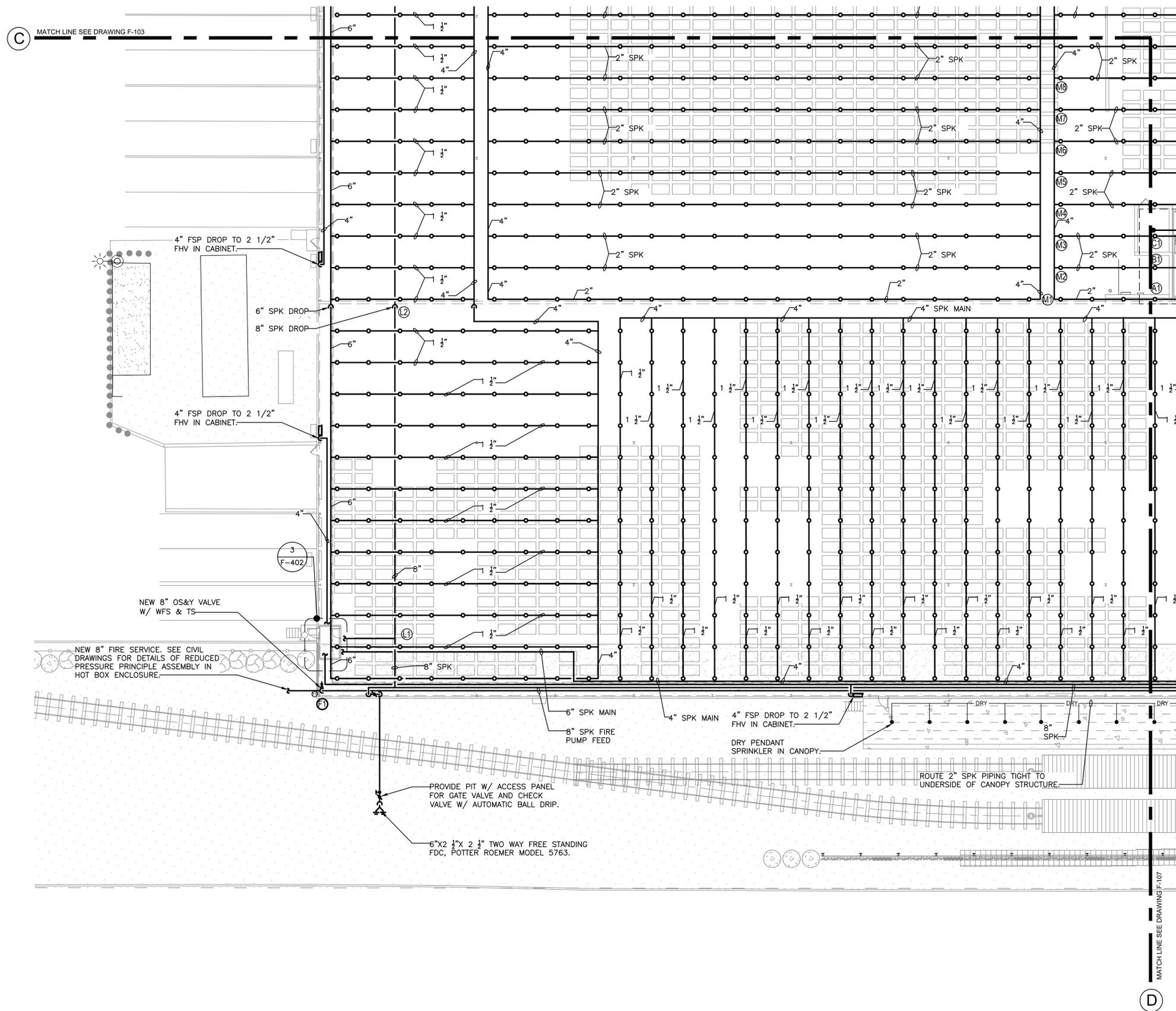
DRAWN BY: M.ESPINAL  
 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: 1/16" = 1'-0"

DRAWING TITLE:

**FIRE PROTECTION L1 PLAN  
 QUADRANT 3**

DWG NUMBER:  
**F-105**

C



**FIRE PROTECTION NOTES**

- 1) CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
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**HYDRAULIC NOTES**

1. PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
2. HYDRAULIC DESIGN DATA #2:  
CONTROL MODE SPECIFIC APPLICATION SPRINKLERS  
K-FACTOR: 11.2  
NUMBER OF SPRINKLERS: 15  
MINIMUM PRESSURE: 25 PSI  
REMOTE AREA: 1500 SQ. FT  
CLASS III COMMODITY ENCAPSULATED STORAGE  
18 FT HIGH PALLETIZED SOLID PILED STORAGE  
CEILING HEIGHT APPROXIMATELY 20'-0" AFF
3. HYDRAULIC DESIGN DATA #3:  
CONTROL MODE SPECIFIC APPLICATION SPRINKLERS  
K-FACTOR: 11.2  
NUMBER OF SPRINKLERS: 15  
MINIMUM PRESSURE: 25 PSI  
REMOTE AREA: 1500 SQ. FT  
CLASS III COMMODITY ENCAPSULATED STORAGE  
20 FT HIGH PALLETIZED SOLID PILED STORAGE  
CEILING HEIGHT APPROXIMATELY 26'-0" AFF

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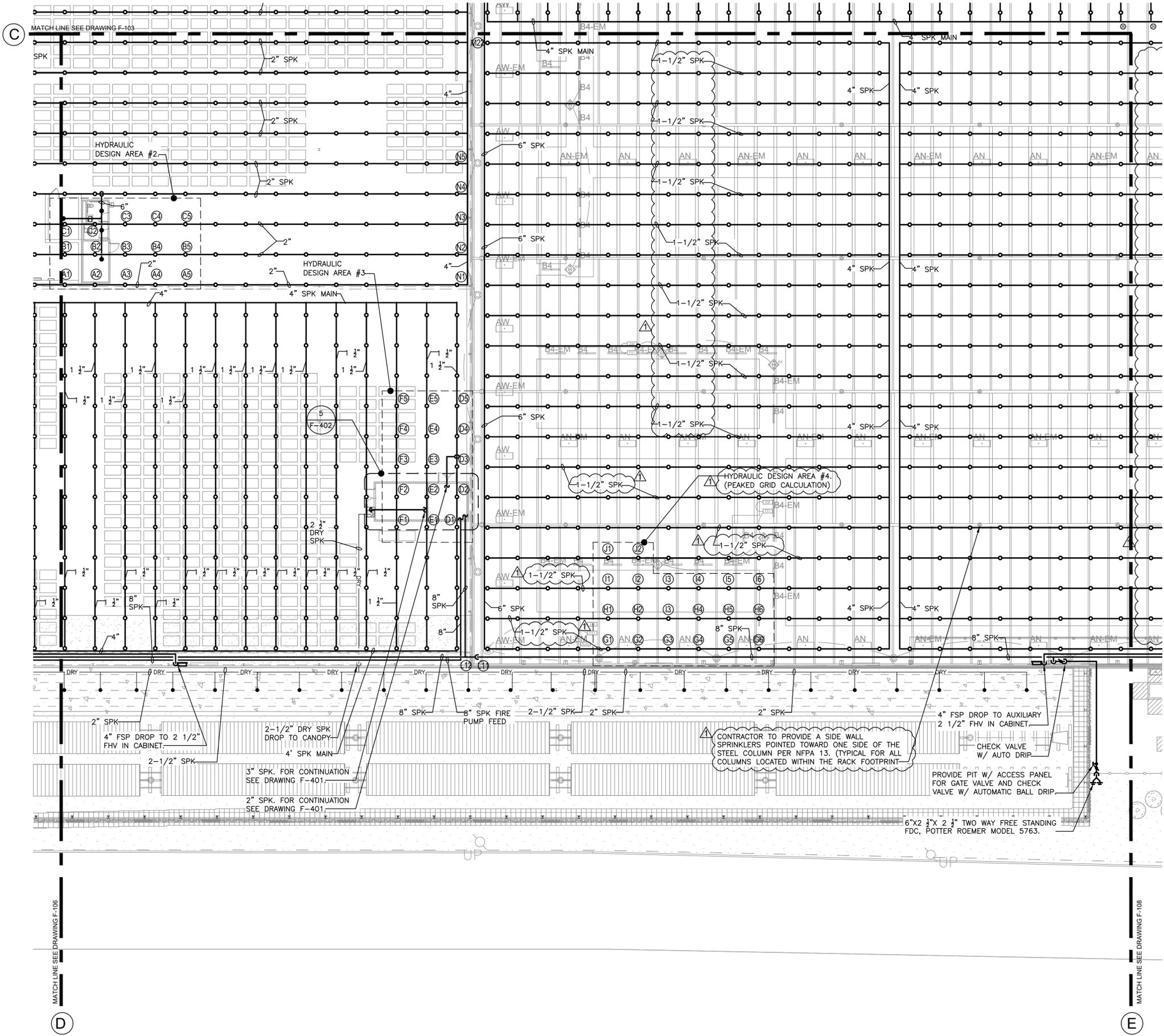
KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
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DRAWN BY: M.ESPINAL  
CHECKED BY: J.CLARK  
APPROVED BY: J.MIZRAHI  
DATE: 04/16/21  
SCALE: 1/16" = 1'-0"

DRAWING TITLE:  
**FIRE PROTECTION L1 FLOOR  
PLAN QUADRANT 4**

DWG NUMBER:  
**F-106**



**FIRE PROTECTION NOTES**

- 1) CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
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- 3) DESIGN DRAWINGS ARE SCHEMATIC. PIPING IS SHOWN APPROXIMATELY ONLY. EXACT LOCATION MUST BE DETERMINED BY THE SPRINKLER CONTRACTOR IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
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- 6) PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE. THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER. SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.

**HYDRAULIC NOTES**

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2. HYDRAULIC DESIGN DATA #4:  
 CONTROL MODE DENSITY AREA SPRINKLERS  
 K-FACTOR: 14  
 NUMBER OF SPRINKLERS: 20  
 DENSITY: 0.37 G.P.M./SQ. FT  
 REMOTE AREA: 2000 SQ. FT  
 CLASS III COMMODITY ENCAPSULATED STORAGE  
 50 FT HIGH MULTIPLE ROW RACKS  
 CEILING HEIGHT 55'-0" AFF

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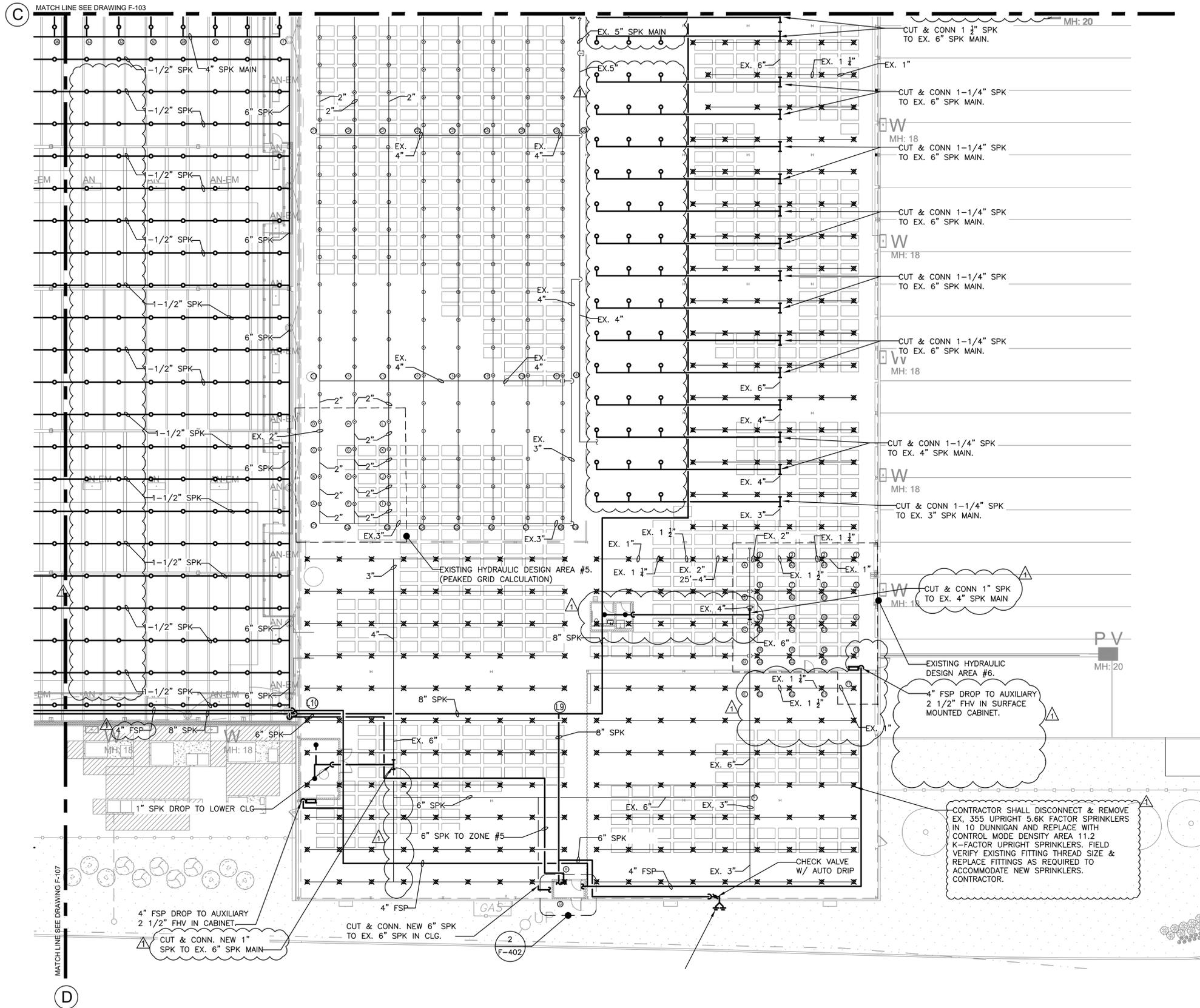
KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY: M.ESPINAL  
 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: 1/16" = 1'-0"

DRAWING TITLE:  
**FIRE PROTECTION L1 FLOOR  
 PLAN QUADRANT 5**

DWG NUMBER:  
**F-107**



**FIRE PROTECTION NOTES**

- 1) CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
- 2) CONTRACTOR SHALL COORDINATE ROUTING OF NEW SPRINKLER PIPING WITH THE PROPOSED STRUCTURE AND ALL TRADES TO AVOID CONFLICTS.
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**HYDRAULIC NOTES**

1. PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.
2. HYDRAULIC DESIGN DATA #5:  
K-FACTOR: 25.20  
NUMBER OF SPRINKLERS: 12 ESFR  
MINIMUM PRESSURE: 15 PSI  
REMOTE AREA: 1200 SQ. FT  
ENCAPSULATED STORAGE  
CLASS III COMMODITY  
15' TO 20' HIGH PALLETIZED SOLID PILED STORAGE  
CEILING HEIGHT APPROX. 25'-10" AFF
3. HYDRAULIC DESIGN DATA #6:  
K-FACTOR: 11.2  
NUMBER OF SPRINKLERS: 17 CMDA  
DENSITY: 0.6 G.P.M/SQ. FT  
REMOTE AREA: 2000 SQ. FT  
ENCAPSULATED STORAGE  
CLASS III COMMODITY  
15' TO 20' HIGH PALLETIZED SOLID PILED STORAGE  
CEILING HEIGHT APPROX. 25'-10" AFF

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KEY PLAN

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DRAWN BY:	M.ESPINAL
CHECKED BY:	J.CLARK
APPROVED BY:	J.MIZRAHI
DATE:	04/16/21
SCALE:	1/16" = 1'-0"

DRAWING TITLE:  
**FIRE PROTECTION L1 FLOOR  
PLAN QUADRANT 6**

DWG NUMBER:

**F-108**

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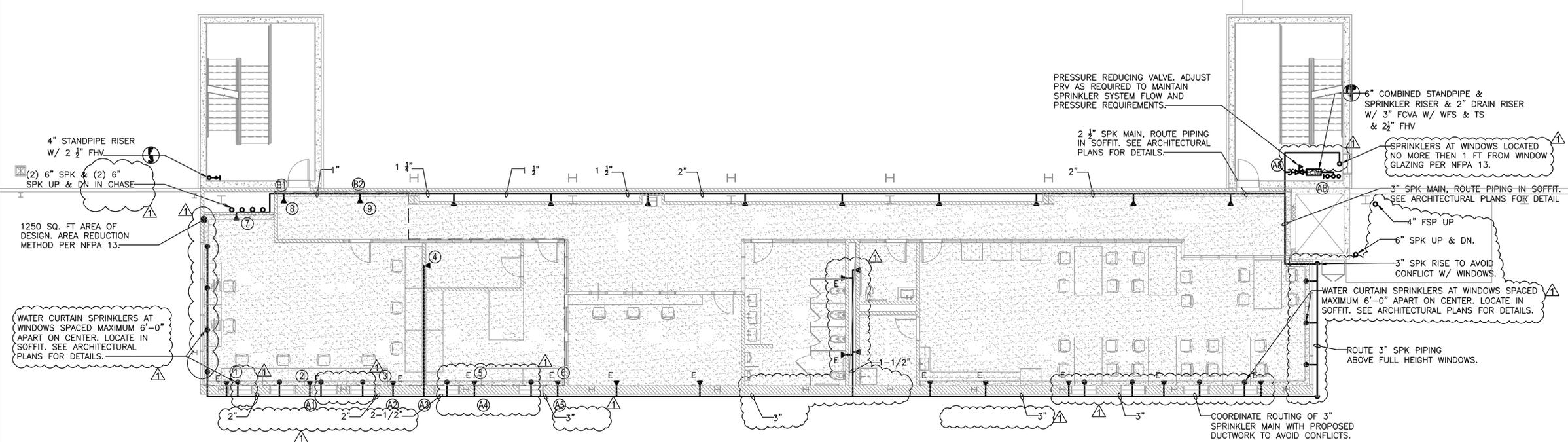
DRAWN BY:	M.ESPINAL
CHECKED BY:	J.CLARK
APPROVED BY:	J.MIZRAHI
DATE:	04/16/21
SCALE:	1/8" = 1'-0"

DRAWING TITLE:  
**FIRE PROTECTION  
 2ND FLOOR PLAN**

DWG NUMBER:  
**F-109**

**FIRE PROTECTION NOTES**

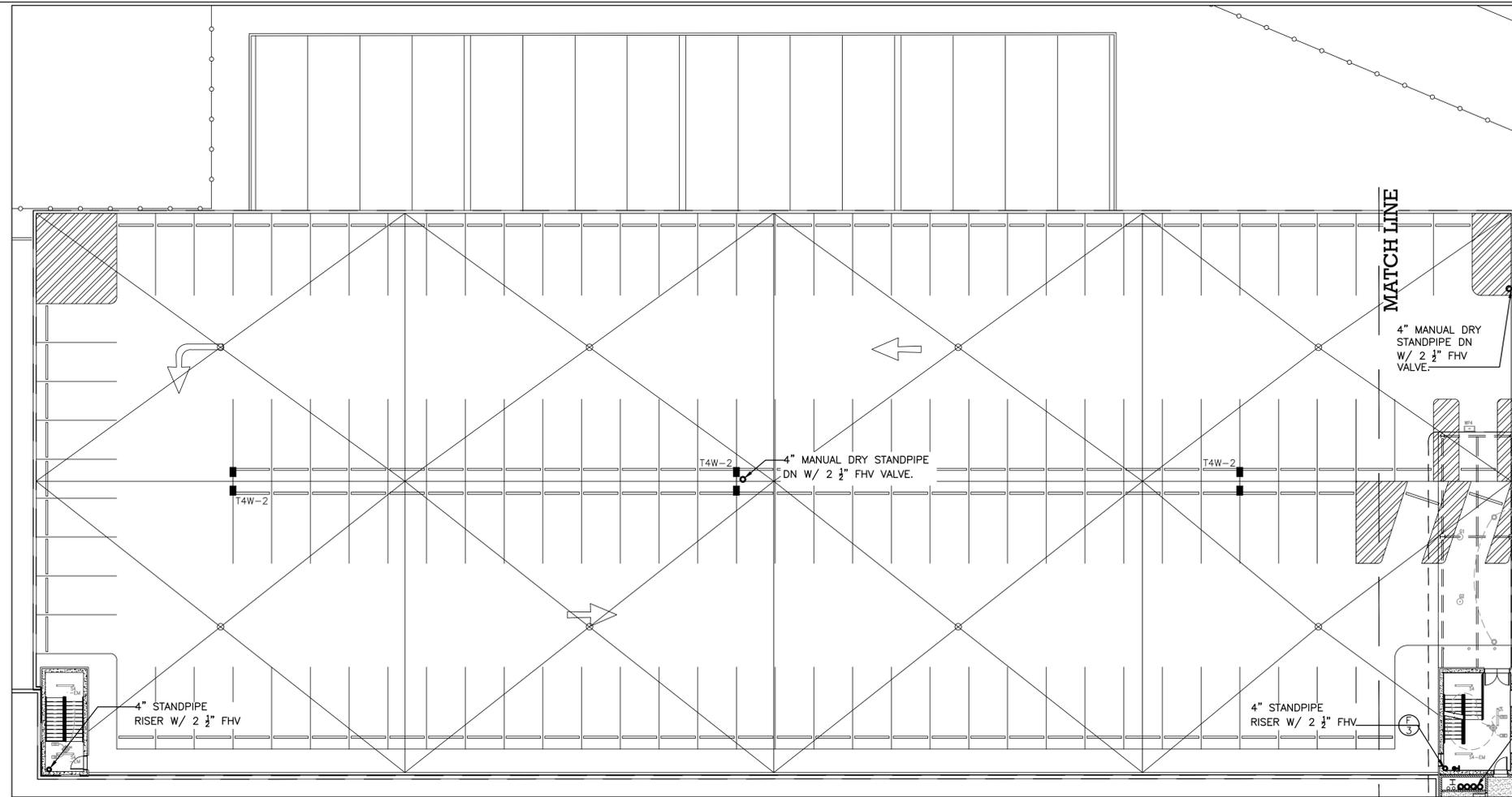
- 1) CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
- 2) CONTRACTOR SHALL COORDINATE ROUTING OF NEW SPRINKLER PIPING WITH THE PROPOSED STRUCTURE AND ALL TRADES TO AVOID CONFLICTS.
- 3) DESIGN DRAWINGS ARE SCHEMATIC. PIPING IS SHOWN APPROXIMATELY ONLY. EXACT LOCATION MUST BE DETERMINED BY THE SPRINKLER CONTRACTOR IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
- 4) THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
- 5) BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
- 6) PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE. THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER. SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.
- 7) PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.



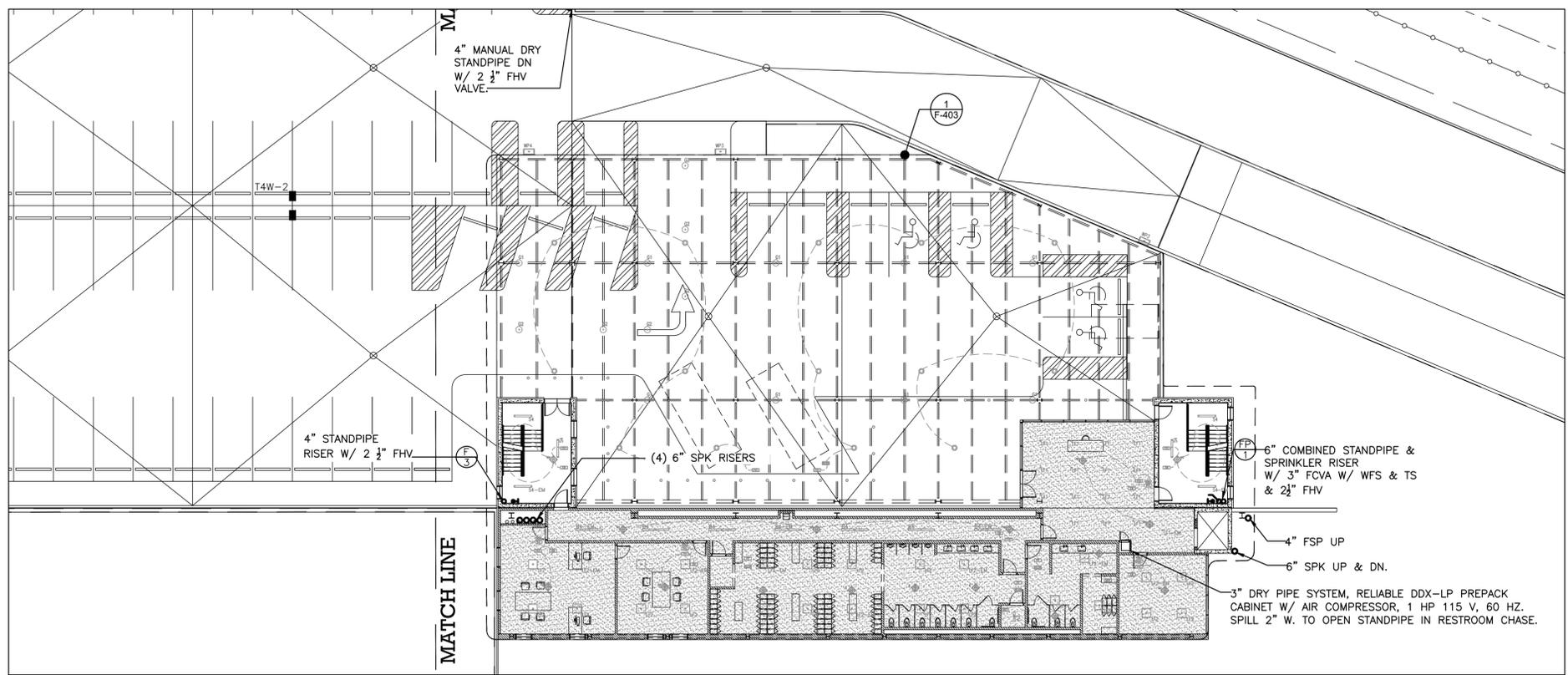
TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT,  
 THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020  
 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

**FIRE PROTECTION NOTES:**

1. CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
2. ALL SPRINKLERS ARE TO BE CENTERED IN CEILING TILE.
3. DESIGN DRAWINGS ARE SCHEMATIC. PIPING IS SHOWN APPROXIMATELY ONLY. EXACT LOCATION MUST BE DETERMINED BY THE SPRINKLER CONTRACTOR IN THE FIELD. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
5. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES. THE PLANS AND SPECIFICATIONS NOT WITHSTANDING, THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.
6. PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.
7. PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.



**1 PARKING DECK PART PLAN**  
P-108 1/16" = 1'-0" NORTH



**2 PARKING DECK PART PLAN**  
P-108 1/16" = 1'-0" NORTH

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Tel 212-687-8282



**MANHATTAN BEER DISTRIBUTORS**  
20 DUNNIGAN DRIVE  
SUFFERN, NEW YORK

KEY PLAN

REV	DESCRIPTION	DATE
	ISSUED FOR DOB SUBMISSION	09/10/2021
	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY: M.ESPINAL  
CHECKED BY: J.CLARK  
APPROVED BY: J.MIZRAHI  
DATE: 04/16/21  
SCALE: 1/16" = 1'-0"

DRAWING TITLE:

**FIRE PROTECTION L3 FLOOR PLAN**

DWG NUMBER:

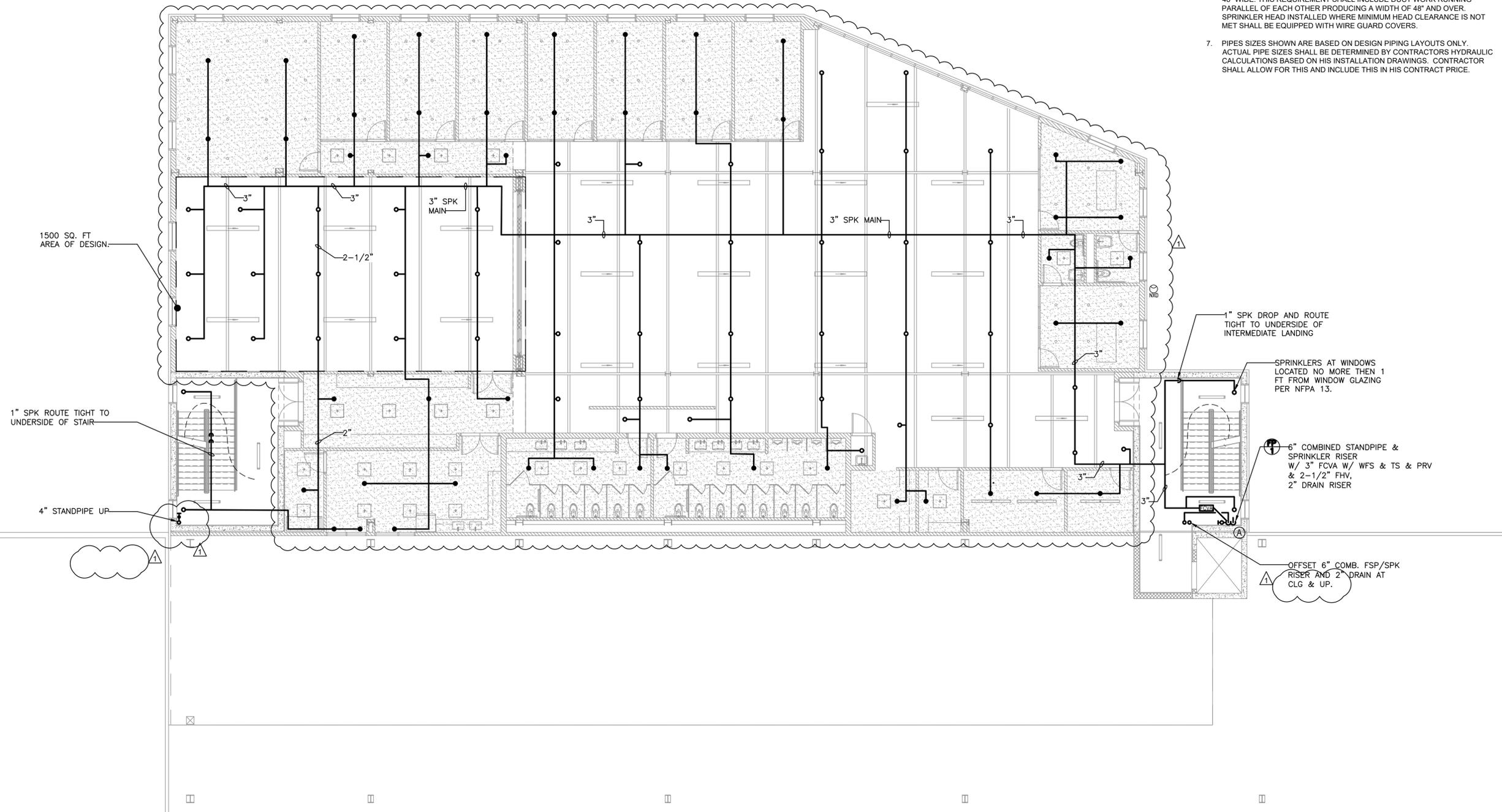
**F-110**

### SPRINKLER PIPE SIZE SCHEDULE

NO. OF SPRINKLERS	PIPE SIZE
1-2	1"
3	1-1/4"
4-5	1-1/2"
6-10	2"
SPRINKLER MAIN & LOOP	3"

### FIRE PROTECTION NOTES

- CONTRACTOR SHALL COORDINATE WITH THE BUILDING THE SHUT DOWN OF THE FIRE STANDPIPE/SPRINKLER RISERS.
- CONTRACTOR SHALL COORDINATE ROUTING OF NEW SPRINKLER PIPING WITH THE PROPOSED STRUCTURE AND ALL TRADES TO AVOID CONFLICTS.
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- PROVIDE SPRINKLER HEADS BELOW ALL EXPOSED OBSTRUCTIONS OVER 48" WIDE. THIS REQUIREMENT SHALL INCLUDE DUCT WORK RUNNING PARALLEL OF EACH OTHER PRODUCING A WIDTH OF 48" AND OVER. SPRINKLER HEAD INSTALLED WHERE MINIMUM HEAD CLEARANCE IS NOT MET SHALL BE EQUIPPED WITH WIRE GUARD COVERS.
- PIPES SIZES SHOWN ARE BASED ON DESIGN PIPING LAYOUTS ONLY. ACTUAL PIPE SIZES SHALL BE DETERMINED BY CONTRACTORS HYDRAULIC CALCULATIONS BASED ON HIS INSTALLATION DRAWINGS. CONTRACTOR SHALL ALLOW FOR THIS AND INCLUDE THIS IN HIS CONTRACT PRICE.



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REV	DESCRIPTION	DATE
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	ISSUED FOR BID	10/15/2021
△	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY : M.ESPINAL  
 CHECKED BY : J.CLARK  
 APPROVED BY : J.MIZRAHI  
 DATE : 04/16/21  
 SCALE : 1/8" = 1'-0"

DRAWING TITLE :

### FIRE PROTECTION 4TH FLOOR PLAN

DWG NUMBER :

F-111

TO THE BEST KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

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	ISSUED FOR BID	10/15/2021
	ISSUED FOR PROGRESS	01/18/2022

DRAWN BY: M.ESPINAL  
 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: NOT TO SCALE

DRAWING TITLE:  
**FIRE PROTECTION 1ST FLOOR PART PLAN**

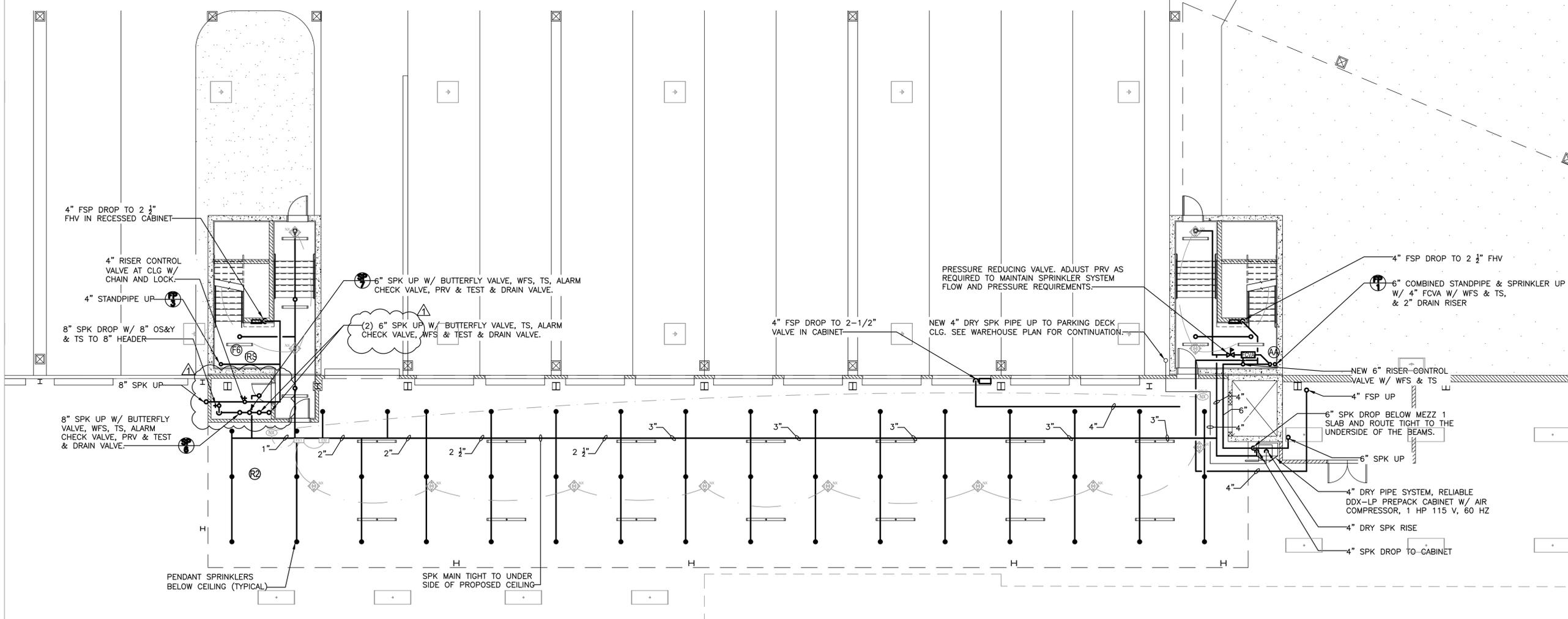
DWG NUMBER:  
**F-401**

**FIRE PROTECTION NOTES**

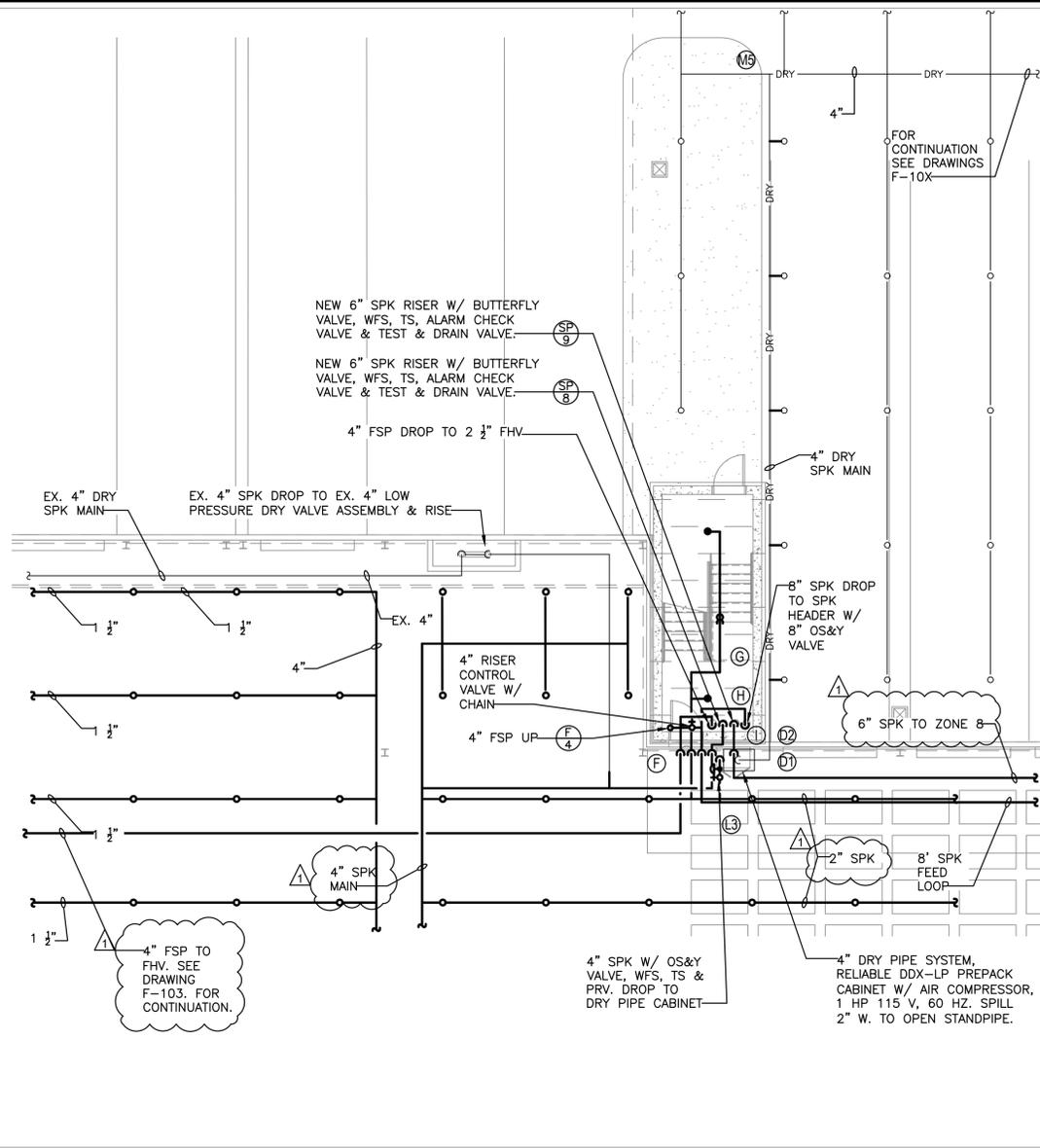
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**SPRINKLER PIPE SIZE SCHEDULE**

NO. OF SPRINKLERS	PIPE SIZE
1-2	1"
3	1-1/4"
4-5	1-1/2"
6-10	2"
SPRINKLER MAIN & LOOP	3"

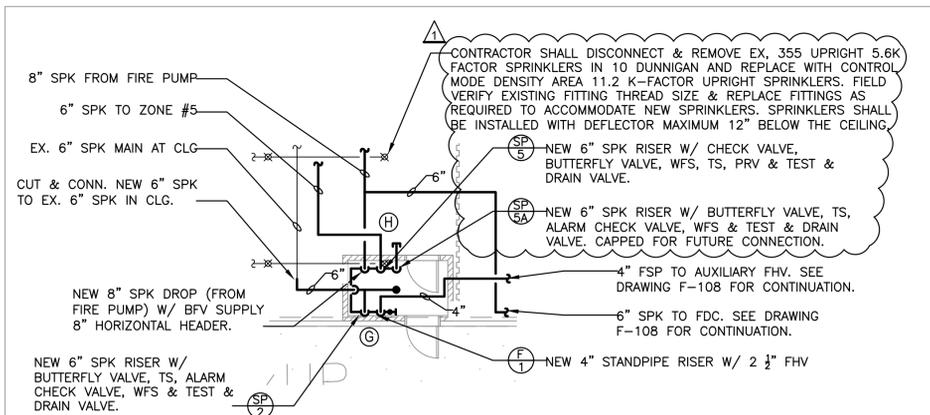


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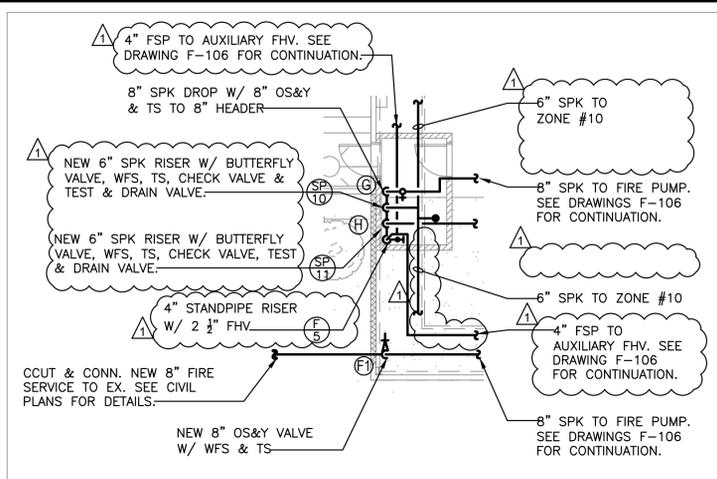
1 FIRE PROTECTION STAIR A PART PLAN

F-402 1/8" = 1'-0"



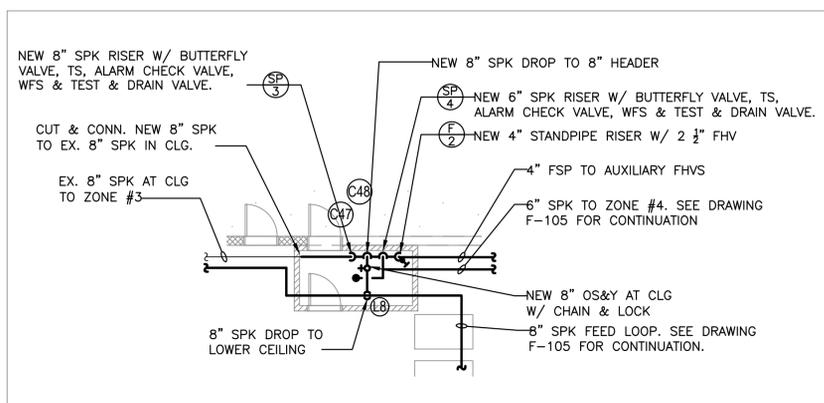
2 SPRINKLER RISER ROOM 111 - PART PLAN

F-402 1/8" = 1'-0"



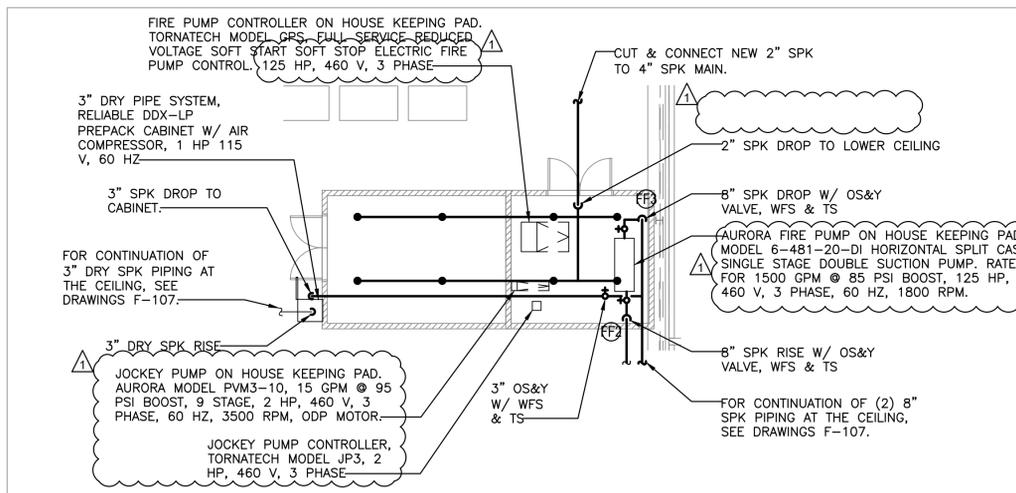
3 SPRINKLER RISER CLOSET 118 PART PLAN

F-402 1/8" = 1'-0"



4 SPRINKLER RISER ROOM 109 - PART PLAN

F-402 1/8" = 1'-0"



5 FIRE PUMP ROOM PART PLAN

F-402 1/8" = 1'-0"

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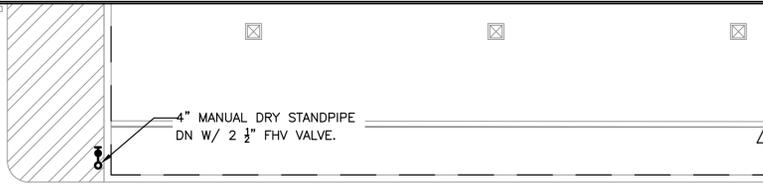
DRAWN BY: M.ESPINAL  
 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: SEE PLANS

DRAWING TITLE:

FIRE PROTECTION  
 PART PLANS

DWG NUMBER:

F-402



### SPRINKLER PIPE SIZE SCHEDULE

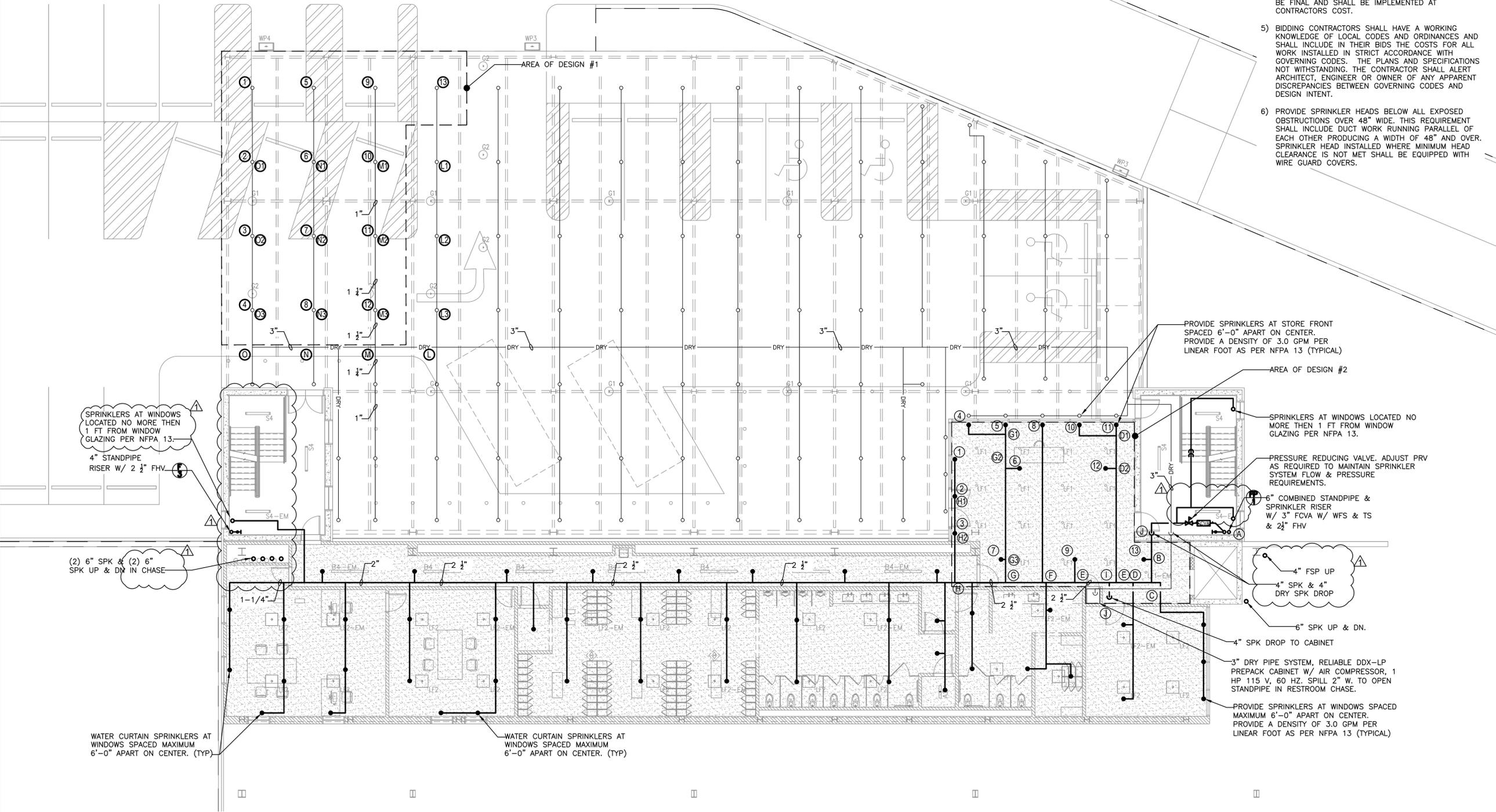
NO. OF SPRINKLERS	PIPE SIZE
1-2	1"
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SPRINKLER MAIN & LOOP	3"

### HYDRAULIC NOTES:

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- HYDRAULIC DESIGN DATA/CRITERIA AREA #1:  
ORDINARY HAZARD, GROUP 2  
K-FACTOR: 8  
NUMBER OF FLOWING SPRINKLERS: 13  
DENSITY: 0.20 G.P.M  
REMOTE AREA: 1500 SQ. FT
- HYDRAULIC DESIGN DATA/CRITERIA AREA #2:  
LIGHT HAZARD  
K-FACTOR: 5.6  
NUMBER OF FLOWING SPRINKLERS: 13  
DENSITY: 0.10 G.P.M  
REMOTE AREA: 855 SQ. FT. AREA REDUCTION METHOD PER NFPA 13.

### FIRE PROTECTION NOTES:

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KEY PLAN

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 CHECKED BY: J.CLARK  
 APPROVED BY: J.MIZRAHI  
 DATE: 04/16/21  
 SCALE: 1/8" = 1'-0"

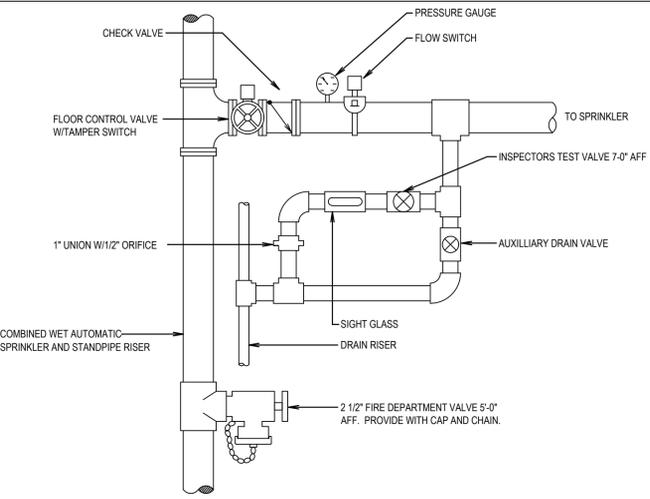
DRAWING TITLE:

### FIRE PROTECTION 3RD FLOOR PLAN

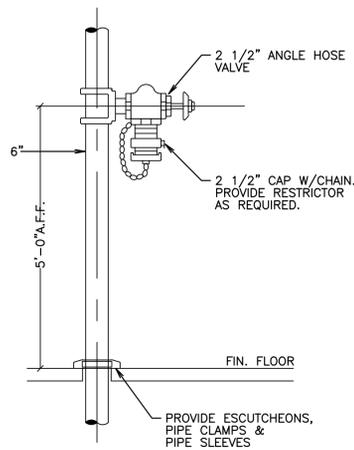
DWG NUMBER:

F-403

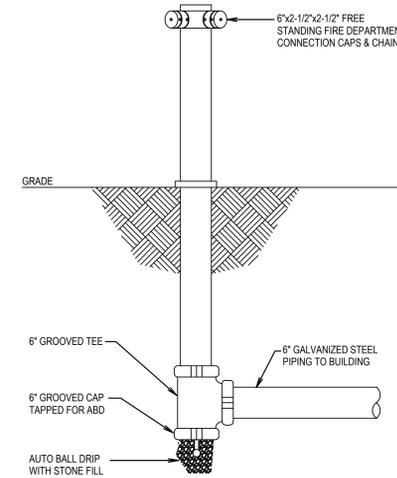
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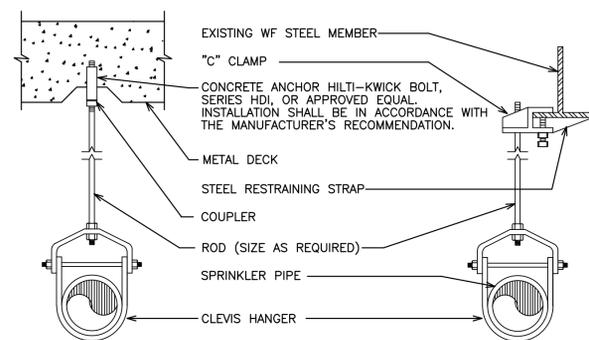
**COMBINED WET AUTOMATIC SPRINKLER AND STANDPIPE RISER FLOOR CONTROL VALVE ASSEMBLY**  
NOT TO SCALE



**FIRE HOSE VALVE ASSEMBLY**  
NOT TO SCALE



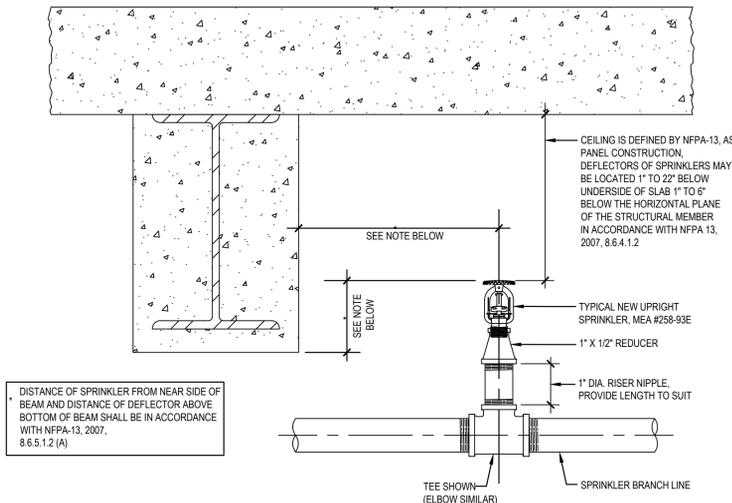
**FREE STANDING FIRE DEPT. CONNECTION**  
NOT TO SCALE



- NOTES:**
1. CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1"
  2. GENERAL PURPOSE HANGERS MAY BE USED ON 1" SPRINKLER PIPING ONLY.
  3. ANY DAMAGED OR MISSING FIREPROOFING TO BE REPAIRED / REPLACED.
  4. HANGER, ROD, SLEEVE, & INSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.

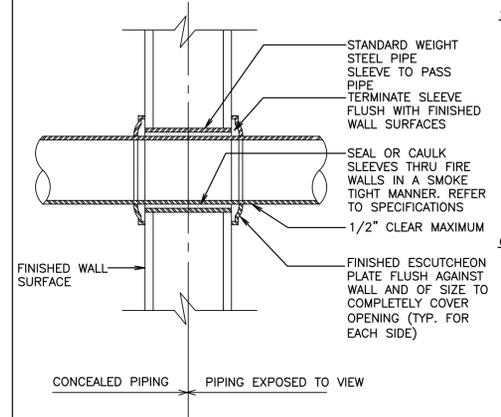
ROD SCHEDULE	
PIPE SIZE	ROD SIZE
1/2" TO 4"	3/8"
5" TO 8"	1/2"
10" TO 12"	5/8"

**TYPICAL HANGER DETAILS**  
NOT TO SCALE



DISTANCE OF SPRINKLER FROM NEAR SIDE OF BEAM AND DISTANCE OF DEFLECTOR ABOVE BOTTOM OF BEAM SHALL BE IN ACCORDANCE WITH NFPA-13, 2007, 8.6.4.1.2 (A)

**TYPICAL UPRIGHT SPRINKLER - NO SUSPENDED CEILING**  
NOT TO SCALE



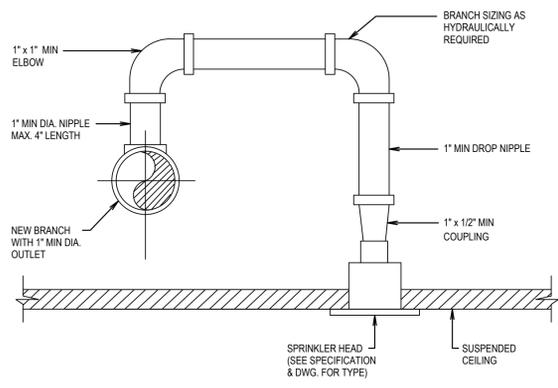
**SLEEVES AND ESCUTCHEONS**

- A. SLEEVES FOR PIPING THROUGH MASONRY WALLS SHALL BE SCHEDULE 40, STANDARD GALVANIZED STEEL PIPE; IN FRAMED PARTITIONS SHALL BE 20 GAUGE SHEET METAL. THE SPACE BETWEEN THE PIPE AND ITS SLEEVE SHALL NOT EXCEED ONE-HALF INCH. THE SLEEVE SHALL HAVE A SUFFICIENT LENGTH TO BE FLUSH WITH THE FINISHED WALL SURFACE.
- B. EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILING SHALL BE FITTED WITH CHROMIUM-PLATED CAST BRASS ESCUTCHEONS WITH FASTENING SET SCREWS.

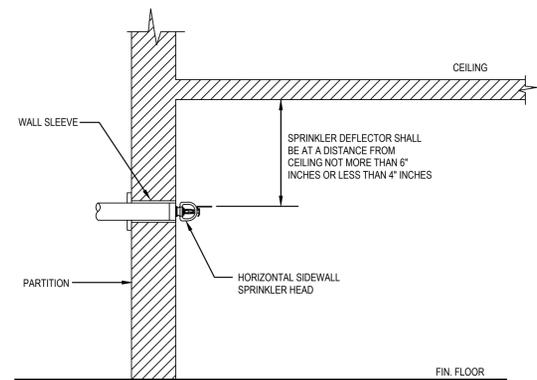
**CUTTING AND PATCHING**

- A. PIPING PASSING THROUGH WALLS SHALL HAVE A TRIM OPENING CUT NO GREATER THAN NECESSARY FOR THE INSTALLATION OF A SLEEVE SECURED THEREIN.
- B. PIPING PASSING THROUGH CONCRETE FLOORS SHALL HAVE AN OPENING CORE DRILLED SO THAT THE SPACE BETWEEN THE OPENING AND THE PIPE SHALL NOT EXCEED ONE-HALF INCH.
- C. ANNULAR SPACES BETWEEN PIPING AND SLEEVES OR CORE DRILLED FLOOR OPENINGS SHALL BE PACKED WITH MINERAL WOOL AND SEALED, TO RETAIN THE FIRE INTEGRITY OF THE WALLS AND FLOORS, WITH A NON-HARDENING COMPOUND SIMILAR OR EQUAL TO DUXSEAL AS MANUFACTURED BY THE J.M. CLIPPER CORP.

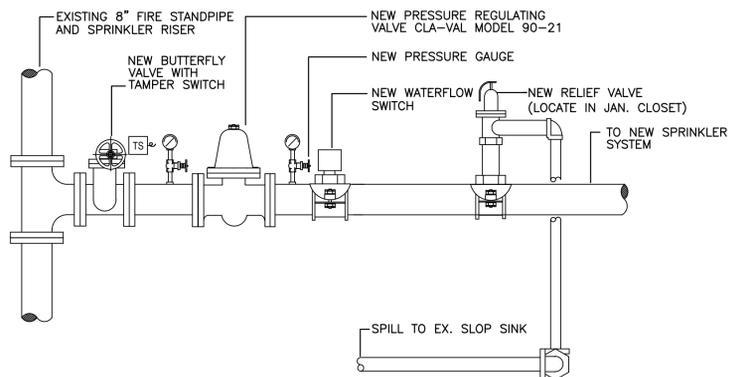
**TYPICAL DETAIL OF PIPE INSTALLATION THRU RATED WALL**  
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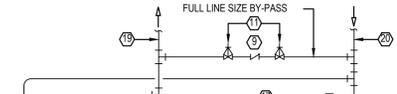
**SPRINKLER HEAD CONNECTION FOR SUSPENDED CEILING**  
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**HORIZONTAL TYPE SIDE WALL SPRINKLER HEAD DETAIL**  
NOT TO SCALE



**NEW FLOOR CONTROL VALVE ASSEMBLY WITH P.R.V.**  
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CHECKED BY: J.CLARK  
APPROVED BY: J.MIZRAHI  
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DRAWING TITLE:  
**FIRE PROTECTION DETAILS**

DWG NUMBER:  
**F-501**

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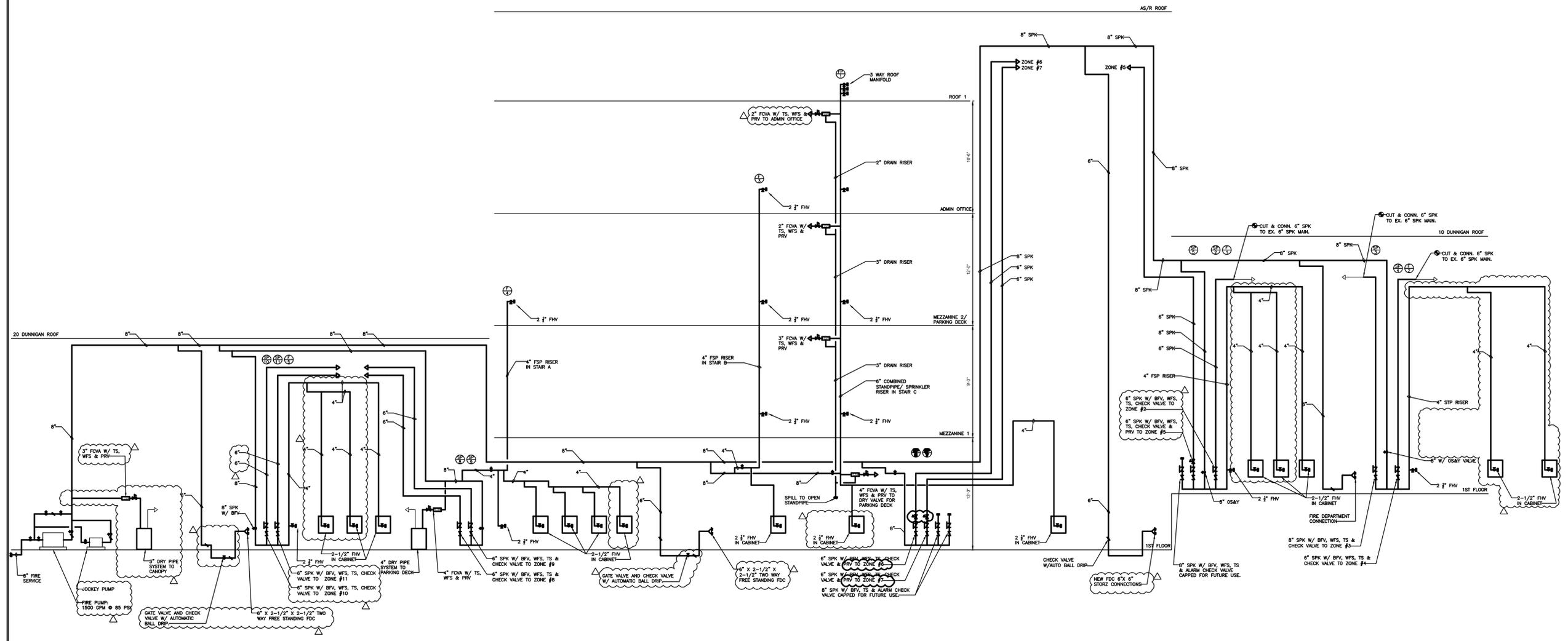
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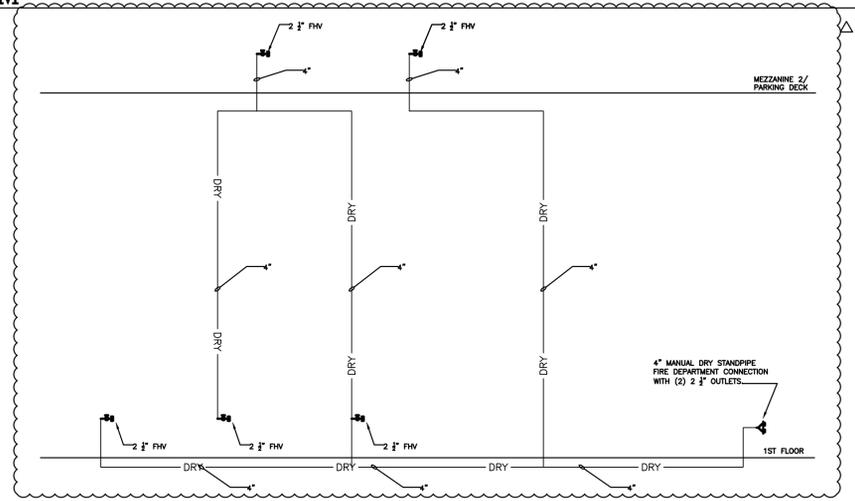


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**1 FIRE PROTECTION RISER DIAGRAM**  
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**2 MANUAL DRY STANDPIPE RISER DIAGRAM**  
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**FIRE PROTECTION RISER DIAGRAM**

DWG NUMBER:  
**F-701**

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DRY SPRINKLER SYSTEM SPECIFICATION

PART 1 GENERAL

1.01 GENERAL REQUIREMENTS

- A. A SELF-CONTAINED, FULLY INTEGRATED LOW PRESSURE DRY PIPE SPRINKLER SYSTEM SHALL BE PROVIDED. THE SYSTEM MUST BE COMPRISED OF UL LISTED/FM APPROVED COMPONENTS WITHIN A CABINET SPECIFICALLY DESIGNED FOR THE INTENDED USE AS AN ASSEMBLED UNIT, CONTAINING ALL OF THE FACTORY INSTALLED HYDRAULIC AND ELECTRICAL COMPONENTS, FITTINGS, GAUGES, MECHANICAL COUPLINGS AND SUPERVISORY AIR SUPPLY NECESSARY FOR THE OPERATION OF AN APPROVED AUTOMATIC DRY SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13.
- B. CABINET SHALL CONTAIN A DOMESTICALLY FACTORY-ASSEMBLED AND TESTED DRY SYSTEM RISER ASSEMBLY WITH GALVANIZED ELECTRIC ACTUATION TRIM. THE CABINET SHALL BE 12-GAUGE STEEL WITH RUSTPROOF EXTERIOR POWDER-COATED BLACK FINISH, AND RUSTPROOF INTERIOR POWDER-COATED WHITE FINISH FOR IMPROVED INTERIOR CABINET VISIBILITY. CABINET ENCLOSURE SHALL HAVE REMOVABLE PANELS FOR ACCESS TO INTERIOR COMPONENTS. CABINET DOOR SHALL BE LINED WITH A NEOPRENE GASKET AND SHALL CONTAIN VIEWING PORTS FOR WATER SUPPLY PRESSURE, SUPERVISORY AIR PRESSURE, AND SYSTEM PRESSURE GAUGES THAT ARE SECURELY MOUNTED.
- C. THE LOW PRESSURE DRY PIPE SYSTEM RISER ASSEMBLY SHALL INCLUDE A PROPERLY SIZED WATER CONTROL VALVE, WATER SUPPLY MANIFOLD AND DRAIN MANIFOLD WITH GROOVED END CONNECTIONS, SYSTEM DRAIN, GROOVED END SYSTEM CONTROL INDICATING BUTTERFLY VALVE WITH A PRE-WIRED SUPERVISORY TAMPER SWITCH ASSEMBLY, GROOVED-END SYSTEM DISCHARGE OUTLET, AND ASSOCIATED PNEUMATIC ACTUATION RELEASE TRIM LISTED AS PART OF THE DRY PIPE VALVE ASSEMBLY. DRY VALVE TRIM SHALL BE GALVANIZED AND SHALL CONSIST OF ALL COMPONENTS NECESSARY TO ENABLE THE SYSTEM TO BE USED AS A LOW PRESSURE SYSTEM. THESE COMPONENTS INCLUDE A LOW PRESSURE DRY PILOT ACTUATOR, MAIN DRAIN, ALARM LINE TEST, WATER PRESSURE GAUGES, PUSH ROD CHAMBER SUPPLY CONNECTIONS, MANUAL EMERGENCY RELEASE VALVE, PRESSURIZING LINE CONNECTION, AND 4" DIAMETER DRIP CUP ASSEMBLY. A CONDENSATE DRAIN VALVE SHALL ALSO BE INCLUDED TO PREVENT WATER COLUMNING ABOVE THE CLAPPER. LOW AIR SUPERVISORY AND WATER FLOW PRESSURE SWITCHES SHALL BE INCLUDED AS PART OF THIS ASSEMBLY.
- D. SUPERVISORY AIR SUPPLY SHALL BE PROVIDED BY AN OIL-LESS, TANK-MOUNTED AIR COMPRESSOR WITH ASSOCIATED PRESSURE SWITCH AND CHECK VALVE LOCATED WITHIN THE CABINET. DRY PIPE SYSTEM SUPERVISORY AIR SHALL BE REGULATED THROUGH A REGULATING PRESSURE MAINTENANCE DEVICE SET IN ACCORDANCE WITH THE MANUFACTURERS DATA SHEET.
- E. A 120/220 VAC WATERTIGHT TERMINAL BOX MOUNTED INSIDE THE CABINET SHALL BE PROVIDED FOR POWER CONNECTION TO THE AIR COMPRESSOR. WIRING OF CONTROL VALVE SUPERVISORY SWITCH, LOW PRESSURE ALARM SWITCH, WATERFLOW ALARM PRESSURE SWITCH, AND OPTIONAL LOW NITROGEN PRESSURE SWITCH SHALL BE TRANSLATED TO A WATERTIGHT TERMINAL BOX MOUNTED INSIDE THE CABINET. ALL FIELD WIRING SHALL BE CONNECTED TO THESE BOXES.
- F. ASSEMBLED UNIT DRY PIPE SYSTEM TO BE RELIABLE MODEL DDX-LP DRYPAK. [NOTE THAT THIS SYSTEM IS AVAILABLE IN SIZES 2 1/2", 3", 4", 6", AND 8"]

PART 2 MATERIALS

2.01 SYSTEM CONTROL VALVE

- A. A [2"] [2-1/2"] [3"] [4"] [6"] [8"] SLOW CLOSE, UL LISTED/FM APPROVED INDICATING WAFER-STYLE BUTTERFLY VALVE WITH GROOVED END CONNECTIONS AND INTEGRAL SUPERVISORY TAMPER SWITCH ASSEMBLY SHALL BE PROVIDED. BUTTERFLY VALVE SHALL HAVE A WORKING PRESSURE RATING OF 250 PSI. VALVE BODY SHALL BE CAST DUCTILE IRON CONSTRUCTION IN ACCORDANCE WITH ASTM A 536 AND STEM TO BE 416 STAINLESS STEEL. BOTH THE STEM SEAL AND THE DISC SEAL TO BE CONSTRUCTED OF NITRILE (BUNA-N) RUBBER. THE VALVE SHALL HAVE A WEATHERPROOF GEAR OPERATOR RATED FOR INDOOR/OUTDOOR USE WITH HAND WHEEL AND RAISED POSITION INDICATOR.
- B. TWO INTERNAL, FACTORY-MOUNTED SUPERVISORY SWITCHES SHALL BE HOUSED WITHIN THE SWITCH BOX HOUSING; A S.P.S.T. SWITCH HAVING A RATING OF 15A @ 125 VAC, 1/2A @ 125 VDC, AND A S.P. D. T. SWITCH HAVING A RATING OF 11A @ 125 VAC, 1 A @ 28 VDC. ALL LEAD WIRES FOR EXTERNAL CONNECTIONS ARE TO BE 18 AWG, EXITING THE SWITCH BOX HOUSING THROUGH A SINGLE HOLE SUITABLE FOR 1/2" CONDUIT FITTINGS. WATER SUPPLY CONTROL VALVE SHALL BE A [2"] [2-1/2"] [3"] [4"] [6"] [8"] NIBCO MODEL WD3510-8 BUTTERFLY VALVE.

2.02 DELUGE VALVE

- A. THE ASSEMBLED UNIT DRY PIPE SYSTEM SHALL UTILIZE A [2"] [2-1/2"] [3"] [4"] [6"] [8"] RELIABLE MODEL DDX DELUGE VALVE. 2", 2 1/2", 3", AND 8" DELUGE VALVES SHALL HAVE A RATED WORKING PRESSURE OF 250 PSI AND SHALL BE FACTORY HYDROSTATIC TESTED AT 500 PSI. 4" AND 6" DELUGE VALVES SHALL HAVE A RATED WORKING PRESSURE OF 300 PSI AND SHALL BE FACTORY HYDROSTATIC TESTED AT 600 PSI.
- B. DELUGE VALVE SHALL BE A [2"] [2-1/2"] [3"] [4"] [6"] [8"] UL LISTED/FM APPROVED HYDRAULICALLY OPERATED, DIFFERENTIAL LATCHING CLAPPER-TYPE VALVE. DELUGE VALVE CONSTRUCTION SHALL BE OF LIGHTWEIGHT, DUCTILE-IRON CONSTRUCTION WITH "SCREW IN" STAINLESS STEEL SEAT AND CLAPPER ASSEMBLY. SEAT SHALL HAVE O-RING SEALS TO RESIST CORROSION AND LEAKAGE. CLAPPER FACING SHALL BE PRESSURE ACTUATED, PROVIDING A LIMITED COMPRESSION SEAT FOR THE SEALING FORCE BETWEEN THE CLAPPER RUBBER FACING AND THE VALVE SEAT. DELUGE VALVE SHALL HAVE AN EXTERNAL RESET KNOB FOR RESETTING THE CLAPPER WITHOUT HAVING TO REMOVE THE VALVE FACE PLATE. PUSH-ROD CHAMBER DESIGN SHALL CONSIST OF A STAINLESS STEEL PISTON/ PUSH-ROD AND SPRING ASSEMBLY WITH DIAPHRAGM SEAL SECURED TO THE CASTING THROUGH A PUSH-ROD GUIDE CONSTRUCTED OF A SYNTHETIC ENGINEERING PLASTIC TO RESIST CORROSION. CASTING SHALL HAVE A BLEEDER HOLE LOCATED ON THE PUSHROD CHAMBER FOR AIR/WATER LEAKAGE INDICATION. TRIP RATIO SHALL BE APPROXIMATELY A 3:1 FORCE DIFFERENTIAL. DELUGE VALVE SHALL BE OF THE STRAIGHT-THROUGH DESIGN TO MINIMIZE FRICTION LOSS AND SHALL BE ACTIVATED BY PNEUMATIC ACTUATION TRIM. INLET RESTRICTION ORIFICE SHALL BE FACTORY INSTALLED INTO INLET PORT OF DELUGE VALVE PUSH-ROD COVER PLATE AND NOT BE A SEPARATE PART OF THE DELUGE VALVE TRIM. END CONNECTION STYLE TO BE GROOVED INLET AND GROOVED OUTLET, PER ANSI/AWWA C606.
- C. VALVE TRIM SHALL CONSIST OF GALVANIZED AND BRASS COMPONENTS SPECIFICALLY LISTED/APPROVED WITH THE DELUGE VALVE. TRIM COMPONENTS SHALL INCLUDE [1-1/4-INCH] [2-INCH] MAIN DRAIN, ALARM LINE TEST, WATER PRESSURE GAUGES, PUSH ROD CHAMBER SUPPLY CONNECTIONS, MANUAL EMERGENCY RELEASE VALVE, AND 4" DIAMETER DRIP CUP ASSEMBLY. CONDENSATE DRAIN VALVE SHALL ALSO BE INCLUDED TO PREVENT WATER COLUMNING ABOVE THE CLAPPER. DELUGE VALVE RELEASING DEVICE SHALL BE A LOW PNEUMATIC PRESSURE DRY PILOT ACTUATOR.

2.03 DRY PILOT ACTUATOR

- A. THE LOW PRESSURE PNEUMATIC ACTUATOR SHALL BE OF CAST IRON CONSTRUCTION UTILIZING A DIAPHRAGM AND COMPRESSION SPRING DESIGN TO SEPARATE THE PUSH-ROD CHAMBER WATER PRESSURE FROM THE SYSTEM PIPING PNEUMATIC SUPERVISORY PRESSURE. THE LOW PRESSURE ACTUATOR SHALL ONLY REQUIRE BETWEEN 8 AND 28 PSI SUPERVISORY PRESSURE FOR PROPER SETTING IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. LOW PRESSURE ACTUATOR SHALL BE RELIABLE MODEL LP ACTUATOR.

2.04 SUPERVISORY AIR SUPPLY

- A. A TANK-MOUNTED AIR COMPRESSOR WITH ASSOCIATED PRESSURE SWITCH AND CHECK VALVE SHALL BE CONTAINED WITHIN THE CABINET. COMPRESSOR SHALL BE SELECTED FROM THOSE AVAILABLE FROM MANUFACTURER AND LISTED WITH UNIT BASED UPON SYSTEM SIZE. MOTOR SIZE, VOLTAGE, AND OTHER ELECTRICAL CHARACTERISTICS SHALL BE COORDINATED WITH ELECTRICAL SUBCONTRACTOR. AIR

SUPPLY SHALL BE REGULATED BY AN APPROVED REGULATING TYPE AIR MAINTENANCE DEVICE CONTAINING A FIELD ADJUSTABLE REGULATOR HAVING A RANGE OF 5 TO 100 PSI, A CHECK VALVE, STRAINER, AND A RAPID FILL VALVE. DRY SYSTEM SUPERVISORY AIR PRESSURE SHALL BE SET IN ACCORDANCE WITH THE MANUFACTURERS DATA SHEET.

2.05 SPRINKLERS

- A. REFER TO SPRINKLER SECTION OF SPECIFICATIONS

2.06 ACCELERATOR

- A. FOR SYSTEM CAPACITIES IN ACCORDANCE WITH NFPA 13, AN ACCELERATOR WITH ASSOCIATED GALVANIZED TRIM KIT SHALL BE PROVIDED TO EXHAUST AIR PRESSURE FROM THE PNEUMATIC ACTUATOR TRIM PIPING IN ORDER TO HASTEN OPERATION OF THE DRY PIPE SYSTEM. MINIMUM PNEUMATIC PRESSURE SHALL BE 15 PSI TO ENSURE PROPER ACCELERATOR OPERATION. ACCELERATOR SHALL BE UL LISTED/FM APPROVED FOR USE WITH THE LOW PRESSURE DRY PIPE VALVE TRIM. ACCELERATOR SHALL BE CAPABLE OF ADJUSTING FOR SMALL FLUCTUATIONS IN SYSTEM AIR PRESSURE WITHOUT CAUSING OPERATION. THE ACCELERATOR SHALL CONTAIN AN INTEGRAL ACCELO-CHECK (ANTI-FLOODING) ASSEMBLY TO PREVENT ENTRY OF WATER AND DEBRIS INTO CRITICAL INTERNAL AREAS DURING OPERATION. ACCELERATOR BODY AND DOME TO BE OF CAST ALUMINUM AND EPOXY COATED INSIDE AND OUT. DIAPHRAGM CONSTRUCTION SHALL CONSIST OF DUPONT FAIRPRENE BN 5049 WITH STAINLESS STEEL FILTER ASSEMBLY. TRIM KIT SHALL CONSIST OF ALL GALVANIZED AND BRASS PARTS, INCLUDING AN ISOLATING BALL VALVE. ACCELERATOR AND TRIM KIT SHALL BE RELIABLE MODEL B-1 ACCELERATOR TRIM KIT.

2.07 LOW AIR SUPERVISORY PRESSURE SWITCH

- A. SUPERVISORY AIR PRESSURE WITHIN THE DRY SYSTEM PIPING SHALL BE MONITORED THROUGH THE USE OF A LOW AIR SUPERVISORY PRESSURE SWITCH. IT SHALL BE UL LISTED/FM APPROVED. THE SWITCH SHALL BE A FIELD-ADJUSTABLE, BELLOWS-ACTIVATED TYPE PRESSURE SWITCH COMPATIBLE WITH SYSTEM DEVICES. THE PRESSURE SWITCH SHALL HAVE THE CAPABILITY TO PROVIDE ALARM RESPONSE BETWEEN 10 AND 100 PSI, AND SHALL BE FIELD ADJUSTED TO CORRELATE WITH NORMAL SYSTEM OPERATING PRESSURE. THE PRESSURE SWITCH SHALL HAVE TWO FIELD-REPLACEABLE SPDT CONTACTS RATED AT 10.0 AMP @ 125/250 VAC AND 2.5 AMP @ 6/12/24 VDC. SWITCH SHALL BE PROVIDED WITH A 1/2" NPT MALE GLASS-REINFORCED NYLON PRESSURE CONNECTION, AND SHALL HAVE A MAXIMUM PRESSURE RATING OF 250 PSI. TWO CONDUIT CONNECTION HOLES SHALL BE PROVIDED IN THE MOUNTING PLATE TO ACCEPT STANDARD 1/2" CONDUIT FITTINGS. THE SWITCH ENCLOSURE SHALL BE WEATHERPROOF AND CARRY A UL 4X/NEMA 4 RATING WHEN USED WITH PROPER ELECTRICAL FITTINGS AND CONDUIT. THE COVER SHALL HAVE THE WIRING DIAGRAM CAST INTO IT AND INCORPORATE TAMPER-RESISTANT SCREWS. LOW AIR SUPERVISORY PRESSURE SWITCH SHALL BE A SYSTEM SENSOR EPS 40-2 PRESSURE SWITCH.

2.08 WATER FLOW PRESSURE SWITCH

- A. AN ALARM PRESSURE SWITCH INSTALLED ON THE ALARM LINE TRIM OF THE DELUGE VALVE SHALL PROVIDE A WATER FLOW ALARM. IT SHALL BE [CULUS LISTED] [FM APPROVED] [NYC MEA APPROVED]; THE SWITCH SHALL BE A FIELD-ADJUSTABLE, BELLOWS-ACTIVATED TYPE PRESSURE SWITCH COMPATIBLE WITH SYSTEM DEVICES. THE PRESSURE SWITCH SHALL HAVE THE CAPABILITY TO PROVIDE ALARM RESPONSE BETWEEN 4 AND 20 PSI, BUT SHALL BE FACTORY ADJUSTED TO RESPOND AT 4 TO 8 PSI ON RISING PRESSURE. THE PRESSURE SWITCH SHALL HAVE A FIELD-REPLACEABLE SPDT CONTACT(S) RATED AT 10.0 AMP @ 125/250 VAC AND 2.5 AMP @ 6/12/24 VDC. SWITCH SHALL BE PROVIDED WITH A 1/2" NPT MALE GLASS-REINFORCED NYLON PRESSURE CONNECTION, AND SHALL HAVE A MAXIMUM PRESSURE RATING OF 250 PSI. TWO CONDUIT CONNECTION HOLES SHALL BE PROVIDED IN THE MOUNTING PLATE TO ACCEPT STANDARD 1/2" CONDUIT FITTINGS. THE SWITCH ENCLOSURE SHALL BE WEATHERPROOF AND CARRY A UL 4X/NEMA 4 RATING WHEN USED WITH PROPER ELECTRICAL FITTINGS AND CONDUIT. THE COVER SHALL HAVE THE WIRING DIAGRAM CAST INTO IT AND INCORPORATE TAMPER-RESISTANT SCREWS. ALARM PRESSURE SWITCH SHALL BE A SYSTEM SENSOR EPS 10-1 PRESSURE SWITCH.

2.09 PIPING

- A. SYSTEM PIPING AND FITTINGS SHALL BE AS RECOMMENDED BY NFPA 13. REFER TO PIPING SECTION OF SPECIFICATIONS.

2.10 SYSTEM DRAIN

- A. THE SINGLE DRAIN COLLECTOR OF THE DRY SYSTEM SHALL BE CONNECTED TO AN OPEN DRAIN CONSISTING OF A VERTICAL PIPE WITH AN AIR GAP AROUND THE DRAIN COLLECTOR PIPE.
- B. THE DRAIN PIPING SHALL NOT BE RESTRICTED OR REDUCED AND SHALL BE OF THE SAME DIAMETER AS THE DRAIN COLLECTOR.
- C. MULTIPLE DRAIN COLLECTORS AND OPEN DRAIN CUPS INSIDE THE CABINET WILL NOT BE ACCEPTED.

PART 3 EXECUTION

3.01 INSTALLATION

- A. THE INSTALLATION MUST MEET ALL ESTABLISHED STANDARDS AND BE ACCORDING TO ALL APPLICABLE LAWS, REGULATIONS AND CODES.
- B. THE PROPER OPERATION AND COORDINATION FOR THE SYSTEM'S INSTALLATION, INCLUDING THE AUTOMATIC SPRINKLER SYSTEM, AND INITIAL START-UP ARE ALL UNDER THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR.
- C. WATER SUPPLY FOR THE CABINET SHALL ALLOW A GROOVED CONNECTION TO SUPPLY MANIFOLD FROM THE LEFT OR RIGHT-HAND SIDE OF THE UNIT.
- D. DRAIN OUTPUT FOR THE CABINET SHALL BE CONNECTED THROUGH THE BOTTOM CENTER OF THE UNIT.

3.02 TRAINING

- A. THE CONTRACTOR MUST PLAN AND ORGANIZE A TRAINING SESSION OF AT LEAST TWO HOURS FOR THE BUILDING MAINTENANCE STAFF, IN THE PRESENCE OF BUILDING OWNER OR HIS REPRESENTATIVE.
- B. THE TRAINING SESSION MUST INCLUDE NORMAL OPERATION, EMERGENCY PROCEDURES AND SYSTEM MAINTENANCE.

3.03 TESTS AND VERIFICATIONS

- A. HYDROSTATIC TESTS MUST BE PERFORMED ON THE ENTIRE SPRINKLER PIPING SYSTEM, AS REQUIRED BY NFPA 13.
- B. A DRAIN TEST USING THE AUXILIARY DRAIN VALVE FULLY OPEN (DRAIN LOCATED ON WATER SUPPLY SIDE, DRY VALVE INLET) MUST BE PERFORMED TO MAKE SURE THAT NO BACK PRESSURE IN DRAIN PIPING EXISTS, WHICH COULD AFFECT THE PROPER OPERATION OF THE DRY SYSTEM.
- C. AN AIR SUPPLY TEST MUST BE PERFORMED, TO CONFIRM THAT NORMAL AIR PRESSURE CAN BE RESTORED WITHIN 30 MINUTES.

3.04 REPORT & CERTIFICATE

- A. AN INSPECTION REPORT AND A CERTIFICATE MUST BE SUPPLIED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. ALL TEST RESULTS SHALL BE REGISTERED IN A BOOKLET TO BE INCLUDED WITH THE INSPECTION REPORT.

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**FIRE PROTECTION SPECIFICATIONS**

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