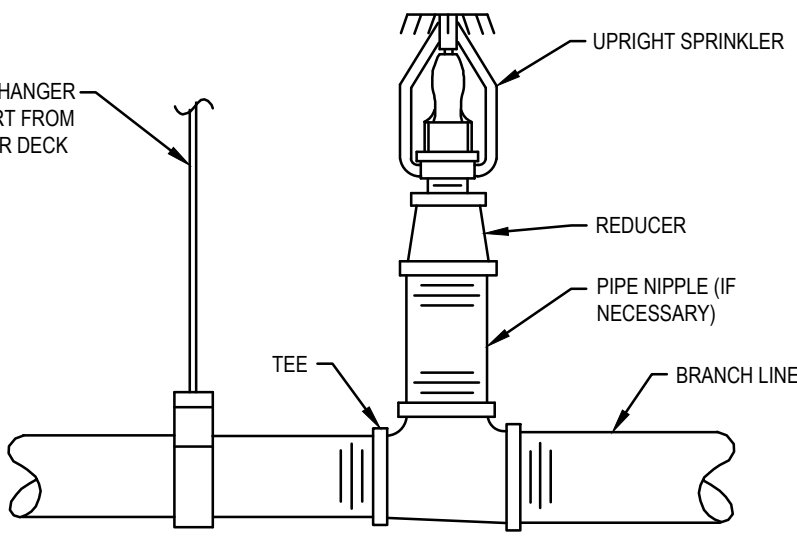
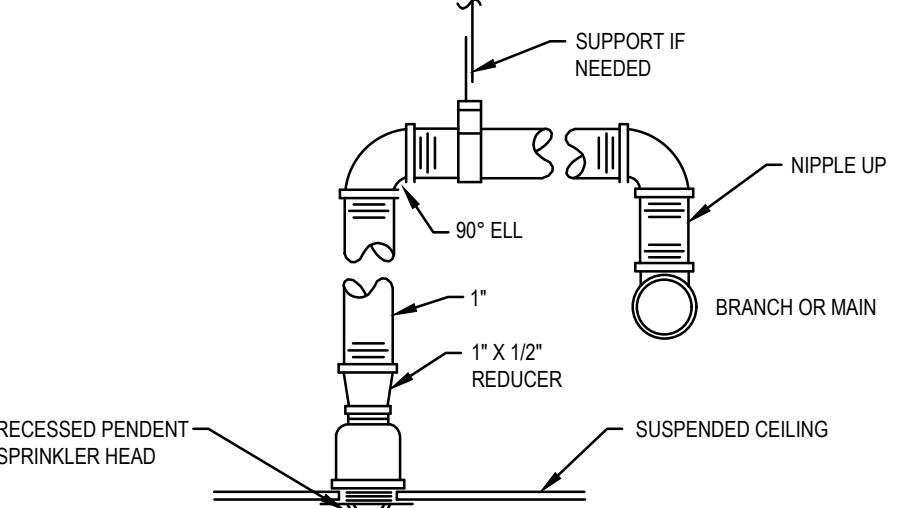


Oct 24, 2021 - 12:07:11 D:\Ks Name: D:\Jobs\2021\NORR - Detroit\Panda Express\MD Townson\Drawings\04-Construction_Bld 6e\F-100_Fire Protection Floor Plan -D71826_TownsonMD.dwg Updated By: alelak



UPRIGHT SPRINKLER HEAD DETAIL

NOT TO SCALE



PENDENT SPRINKLER HEAD DETAIL

NOT TO SCALE

FIRE PROTECTION DESIGN CRITERIA			
ROOM NAME	NFPA 13 HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SQ FT)(AREA)	SPRINKLER HEAD TEMPERATURE RATING DEG F
KITCHEN	ORDINARY HAZARD GROUP 2	(0.15) (1500)	165
SERVING AREA	ORDINARY HAZARD GROUP 2	(0.15) (1500)	165
QUEUING AREA	ORDINARY HAZARD GROUP 2	(0.20) (1500)	165
KITCHEN PREP	ORDINARY HAZARD GROUP 2	(0.20) (1500)	165
WALK IN COOLER/FREEZER	ORDINARY HAZARD GROUP 2	(0.20) (1500)	165

FIRE PROTECTION DESIGN CRITERIA

NOT TO SCALE

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE TURN KEY INSTALLATION USING UNDERWRITER LABORATORIES UL LISTED PRODUCTS INCLUDING DESIGN, OBTAINING APPROVALS AND COORDINATION WITH OTHER TRADES. INSTALL TO MEET NFPA NO. 13 AND 72 AND THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.

2. SUBMIT WORKING PLANS AND HYDRAULIC CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL FIRE PROTECTION ENGINEER REGISTERED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO AUTHORITIES THAT HAVE JURISDICTION. NORR (PARTNERSHIP) DESIGN DOCUMENTS ARE FOR PERMIT PURPOSES. THE DESIGN IS NOT INTENDED TO LIMIT THE CONTRACTOR FROM PROVIDING ANOTHER DESIGN THAT MAY BE MORE ECONOMICAL AND STILL MEET THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.

3. WORKING PLANS AND COMPUTERIZED HYDRAULIC CALCULATIONS SHALL BE PREPARED BY A MINIMUM LEVEL 3 N.I.C.E.T. CERTIFIED SPRINKLER LAYOUT DESIGNER. DRAWINGS SHALL BE SIGNED AND THE N.I.C.E.T. CERTIFICATE NUMBER INDICATED ON PLAN. ALL DRAWINGS, INCLUDING AS-BUILTS, SHALL BE SUBMITTED ON DISC USING AUTO CAD.

4. THE HYDRAULIC CALCULATIONS SHALL INCLUDE THE PRESSURE DROP THROUGH ALL PIPE, FITTINGS AND DEVICES, INCLUDING THE PRESSURE DROP THROUGH THE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER, FROM THE MOST HYDRAULIC REMOTE POINT OF THE SPRINKLER SYSTEM TO THE LOCATION OF THE TEST HYDRANT.

5. SUBMIT DRAWINGS TO LOCAL FIRE DEPT. AND OBTAIN NECESSARY APPROVALS, PERMITS AND CERTIFICATES PRIOR TO SUBMISSION TO THE ENGINEER FOR FINAL REVIEW.

6. WHERE REQUIRED BY CODE OR DIRECTED BY LOCAL AUTHORITIES, CONTRACTOR SHALL PROVIDE SEISMIC HANGING & CONSTRAINTS ON ALL PIPING IN COMPLETE ACCORDANCE WITH THE LATEST ISSUE OF THE STATE MECHANICAL BUILDING CODE, LOCAL CODES AND NFPA.

7. FIRE PROTECTION CONTRACTOR SHALL PROVIDE A GUARANTEE COVERING ALL DESIGN, INSTALLATION, MATERIAL AND WORKMANSHIP FOR ONE YEAR FOLLOWING DATE OF ACCEPTANCE BY PANDA.

8. THE HYDRAULIC CALCULATIONS SHALL BE BASED ON THE LATEST FLOW TEST DATA.

9. THE FOLLOWING INFORMATION SHALL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR AT SUBMITTAL OF SHOP DRAWINGS AND CALCULATIONS:

a. STATIC PRESSURE PSI

b. RESIDUAL PRESSURE PSI

c. FLOW GPM

d. FLOW TEST HYDRANT LOCATIONS

e. DATE OF TEST

f. TIME OF TEST

g. RESPONSIBLE PARTY CONDUCTING TEST

h. HYDRANT OUTLET DISCHARGE COEFFICIENT

10. PIPING SHALL BE SLOPED TO DRAIN BACK TO SPRINKLER RISER. AUXILIARY DRAINAGE IN ACCORDANCE WITH NFPA 13 SHALL BE PROVIDED FOR ALL TRAPPED SECTIONS OF PIPE.

11. PIPE ALL DRAINS AND INSPECTOR'S TEST TO OUTSIDE, OR DISCHARGE TO A DRAIN APPROVED BY THE OWNER FOR SPRINKLER DISCHARGE.

12. PROVIDE AUTOMATIC SPRINKLER BELOW OBSTRUCTIONS 48 INCHES AND WIDER. (PLATFORMS, DUCTWORK, STAIRWAYS, UNIT HEATER, ETC).

13. PROVIDE 10 POUND ABC TRIPLE CLASS FIRE EXTINGUISHERS, BASED ON 3000 SQ FT OF FLOOR AREA WITH A MAX OF 75 FT TRAVEL DISTANCE.

14. REFER TO THE ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLANS AND COORDINATE ALL WORK WITH ALL OTHER CONTRACTORS PRIOR TO INSTALLATION OF THE SPRINKLER SYSTEM.

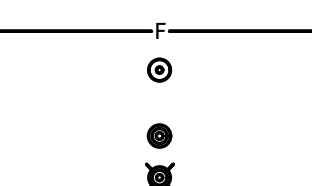
15. THE PUBLIC WATER SUPPLY IS NOT SUBJECT TO MICROBIAL INDUCED CORROSION (MIC).

16. THE SPRINKLER DESIGN SHALL BE BASED ON STANDARD RESPONSE SPRINKLERS. AT THE CONTRACTOR'S OPTION, EXTENDED COVERAGE SPRINKLER MAY BE USED, IN CONFORMANCE WITH NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.

17. INSTALL HIGHER TEMPERATURE SPRINKLER HEADS WHERE REQUIRED BY CODE.

FIRE PROTECTION NOTES

NOT TO SCALE



FIRE PROTECTION PIPING

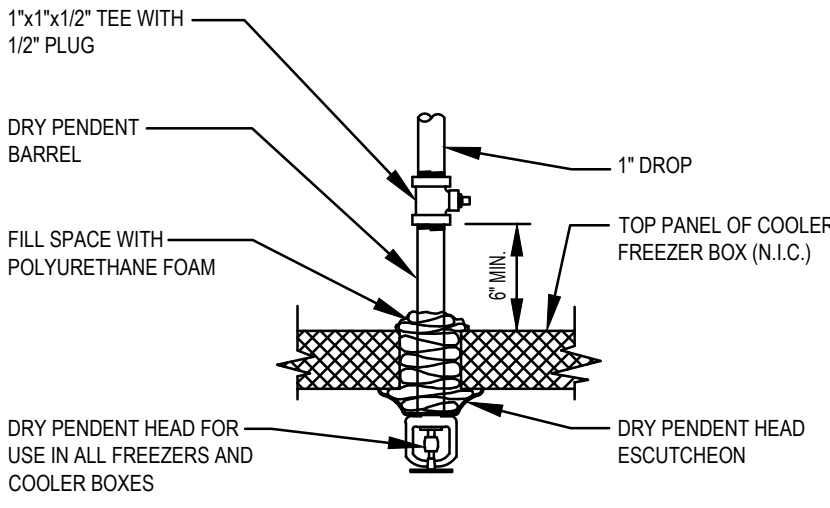
RECESSED PENDENT SPRINKLER HEAD FOR AREAS WITH FINISHED TILED CEILINGS

CONCEALED PLATE SPRINKLER HEAD (IN AREAS WITH GYPSUM BOARD CEILINGS)

DRY CONCEALED PENDENT SPRINKLER HEAD

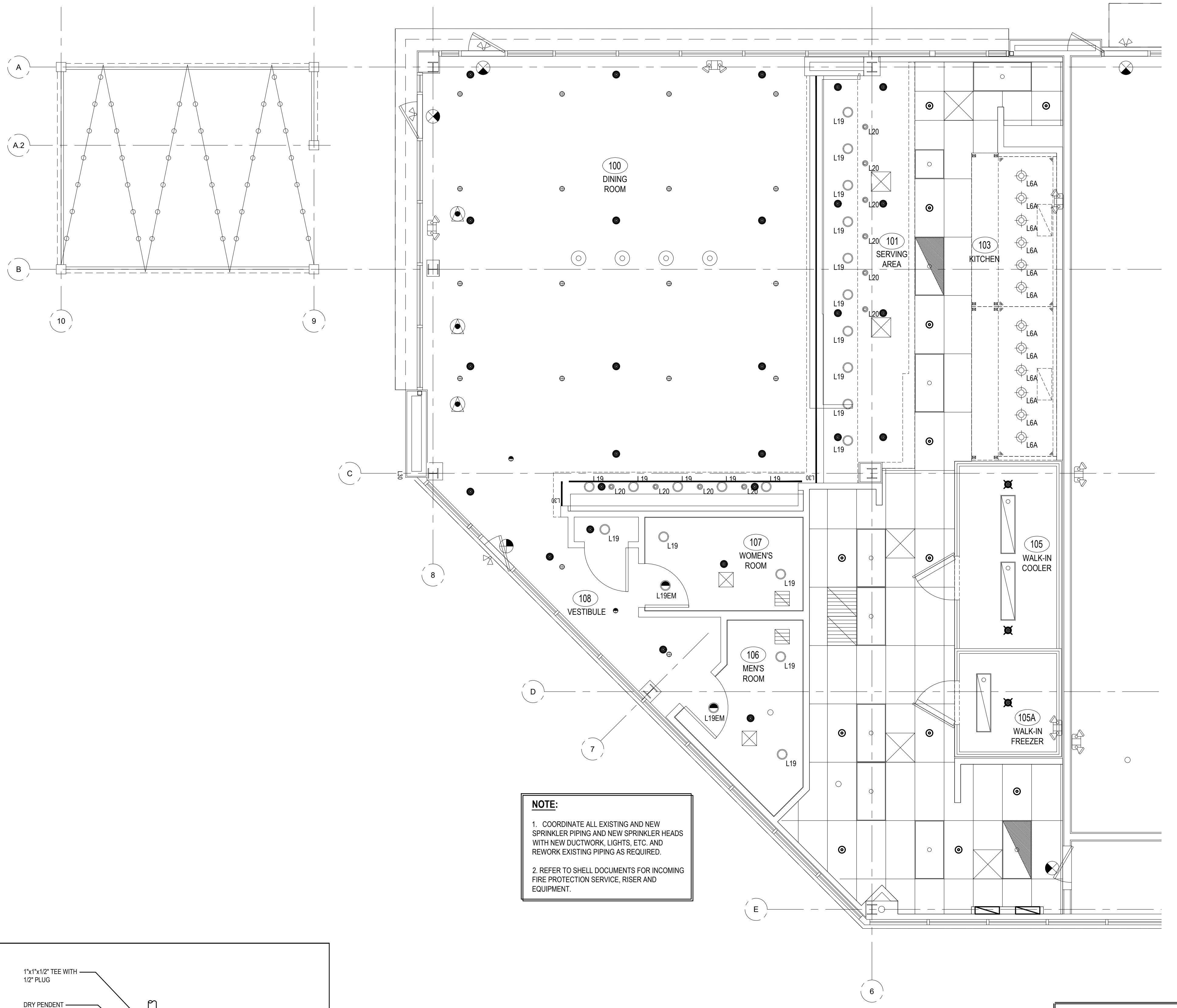
FIRE PROTECTION LEGEND

NOT TO SCALE



DRY PENDENT SPRINKLER HEAD DETAIL

NOT TO SCALE



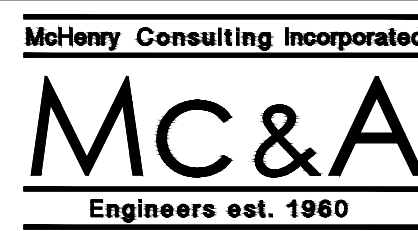
NOTE:

1. COORDINATE ALL EXISTING AND NEW SPRINKLER PIPING AND NEW SPRINKLER HEADS WITH NEW DUCTWORK, LIGHTS, ETC. AND REWORK EXISTING PIPING AS REQUIRED.

2. REFER TO SHELL DOCUMENTS FOR INCOMING FIRE PROTECTION SERVICE, RISER AND EQUIPMENT.

CONTRACTOR MUST VERIFY ALL CLEARANCES AND DIMENSIONS IN FIELD

Scale= 1/4" = 1'-0"



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FIRE PROTECTION FLOOR PLAN

Scale= 1/4" = 1'-0"



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REVISIONS:

NO.	DESCRIPTION	DATE

ISSUE DATE:

SET	DATE
PERMIT SET	06-30-2021
CONSTRUCTION/BID SET	10-29-2021

DRAWN BY:

PANDA PROJECT #: D7826
ARCH PROJECT #: JCDT20-0381

NORR
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FIRE PROTECTION FLOOR PLAN

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