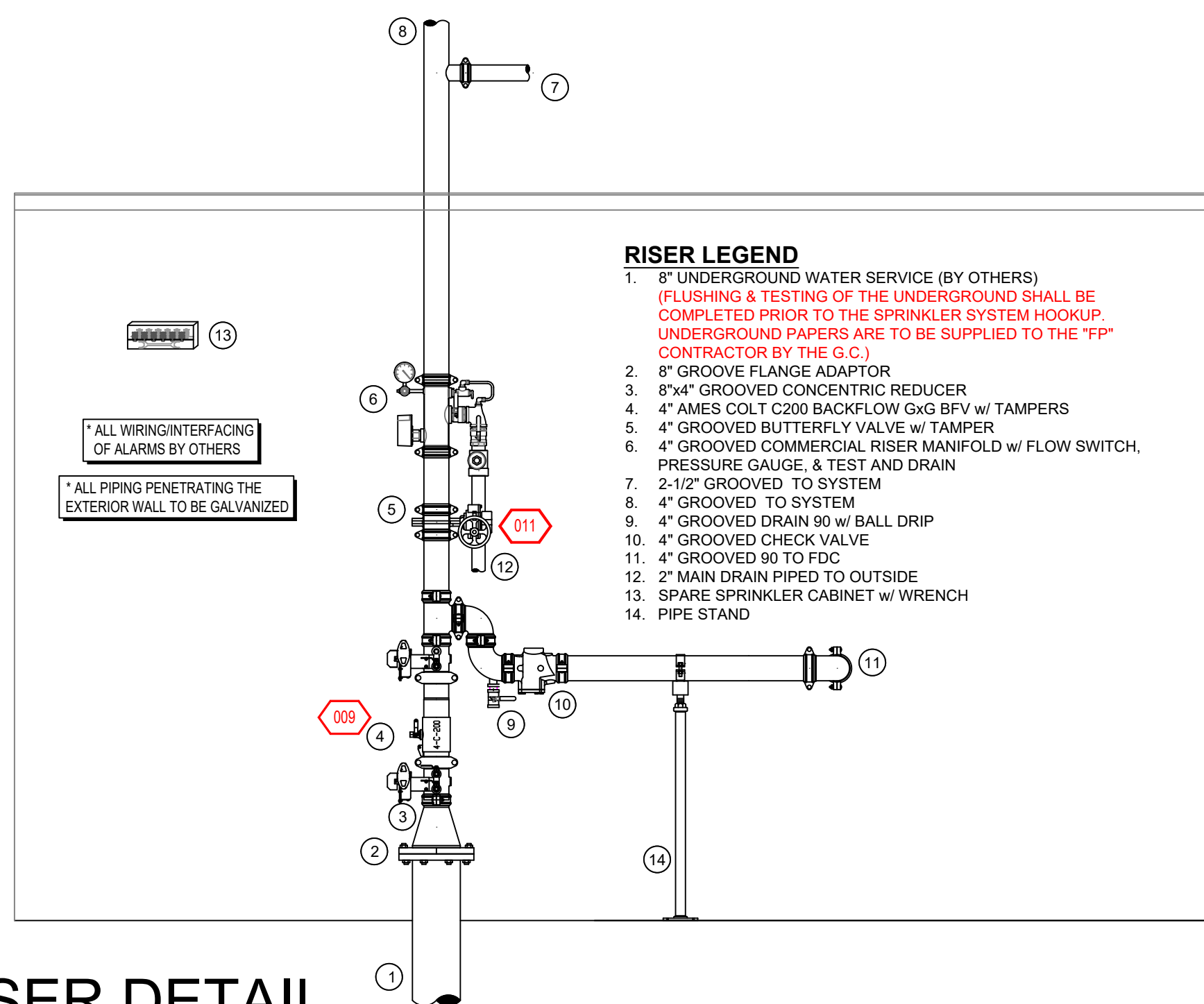
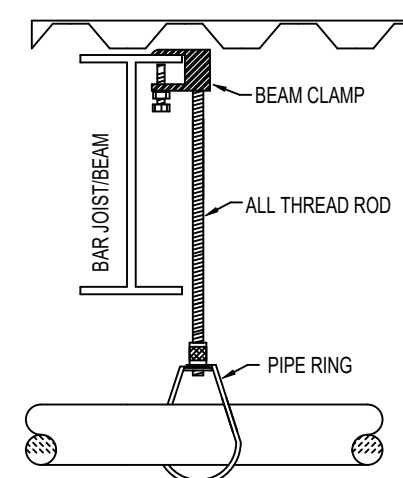
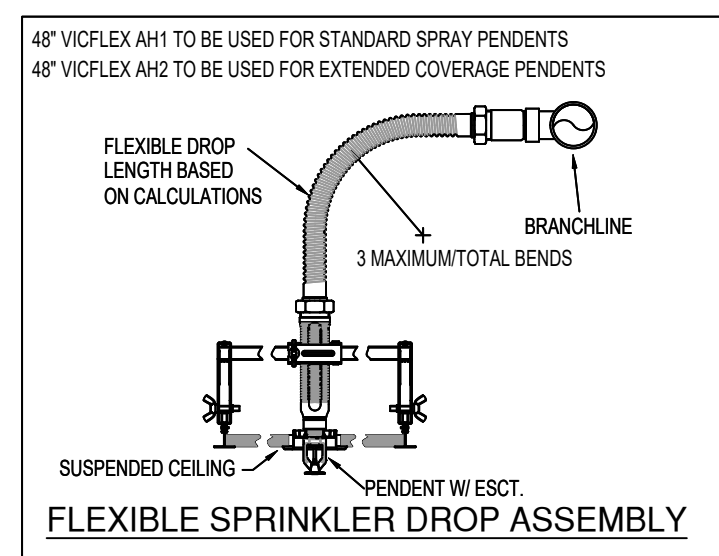


[illegible]

SCALE= 1/2" : 1'-0"

NFPA 13 STEEL PIPE HANGER SPACING

(EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE Inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"

[illegible]

LEVEL 01
EL. = 100'-0"

WASH BAY 150

VEHICLE STORAGE 140

WELD SHOP 145

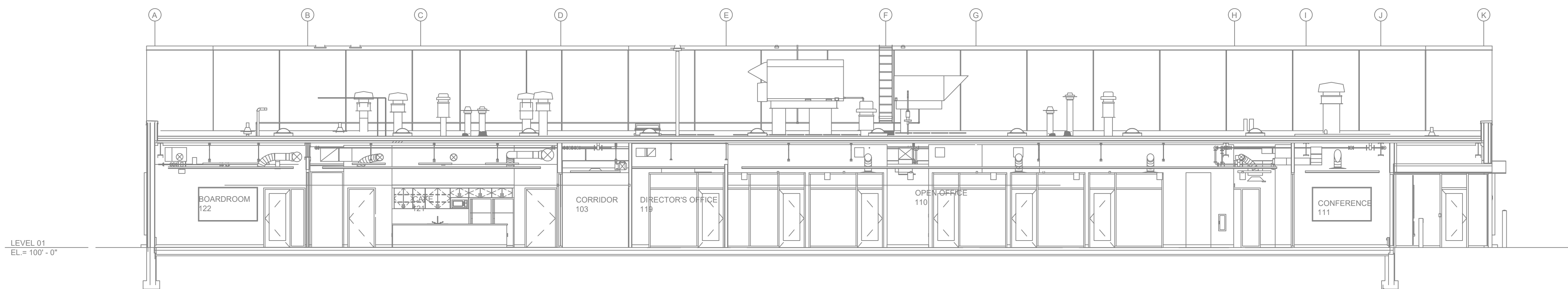
SERVER 126A

IT 126

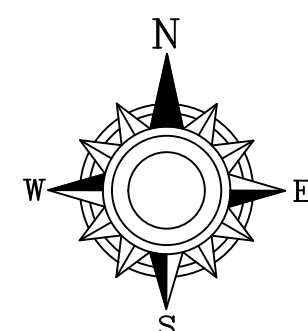
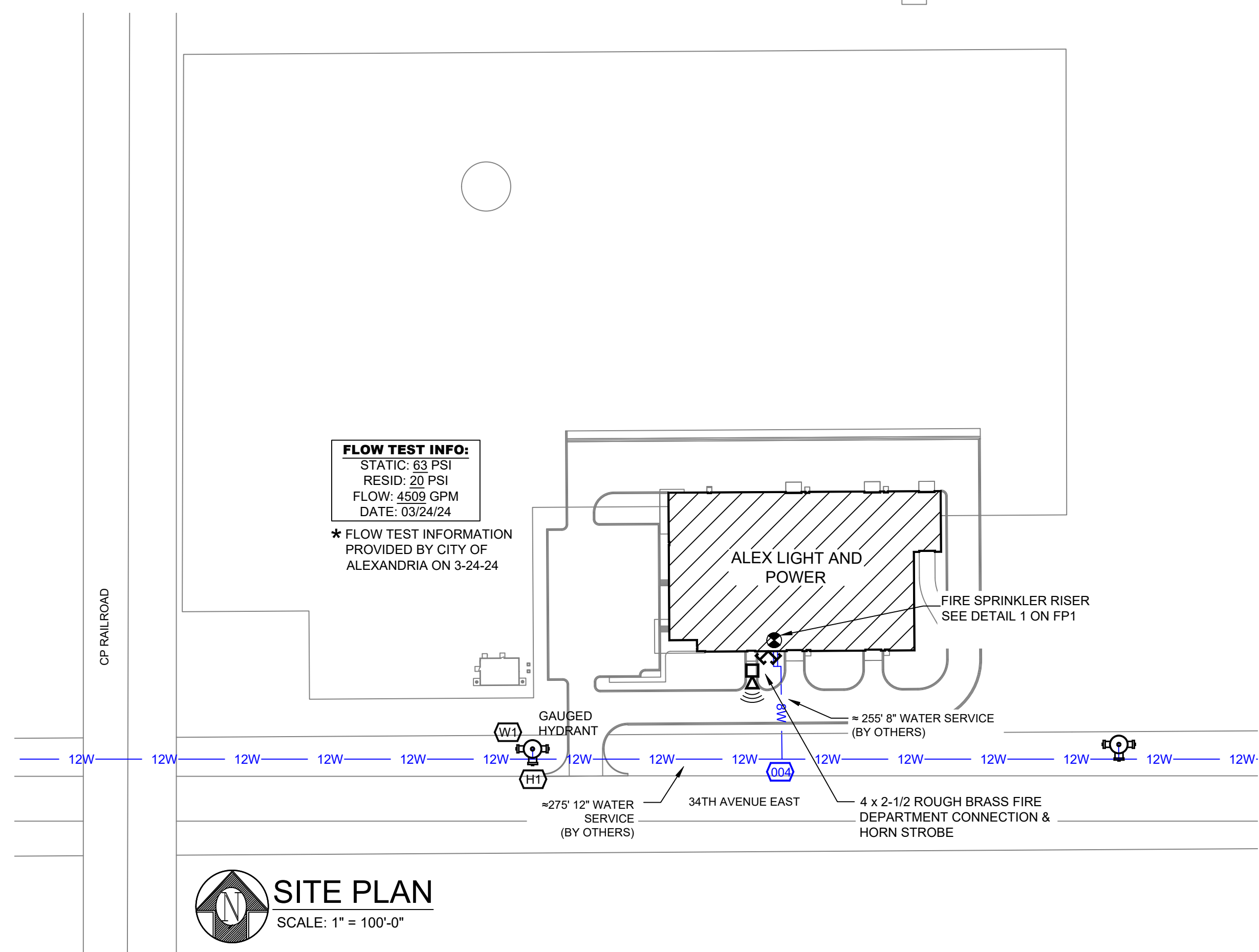
FURNITURE STORAGE 121A

CAFE 121

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



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



GENERAL NOTES

2. SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
3. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.S. LISTED
4. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
5. ALL SCH-40 LIGHTWALL PIPE WITH WELDED OUTLETS & GROOVED SHOP DRADING FITTINGS
6. ALL WELDING PER NFPA-13(4.2)
7. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
8. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
9. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
10. HIGH TEMPERATURE HEADS ARE TO BE FIELD MEASURED WHERE REQUIRED
11. PROVIDE ONE SPARE HEAD CABINET W/8 HEADS & 1 HEAD WRENCH
12. HANGERS ARE TO BE U.S. LISTED
13. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
14. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

[illegible]Drawing
Title: BUILDING SECTIONS AND DETAILS

**ALEXANDRIA
LIGHT & POWER
ALEXANDRIA, MN**

Contract N

C24-96

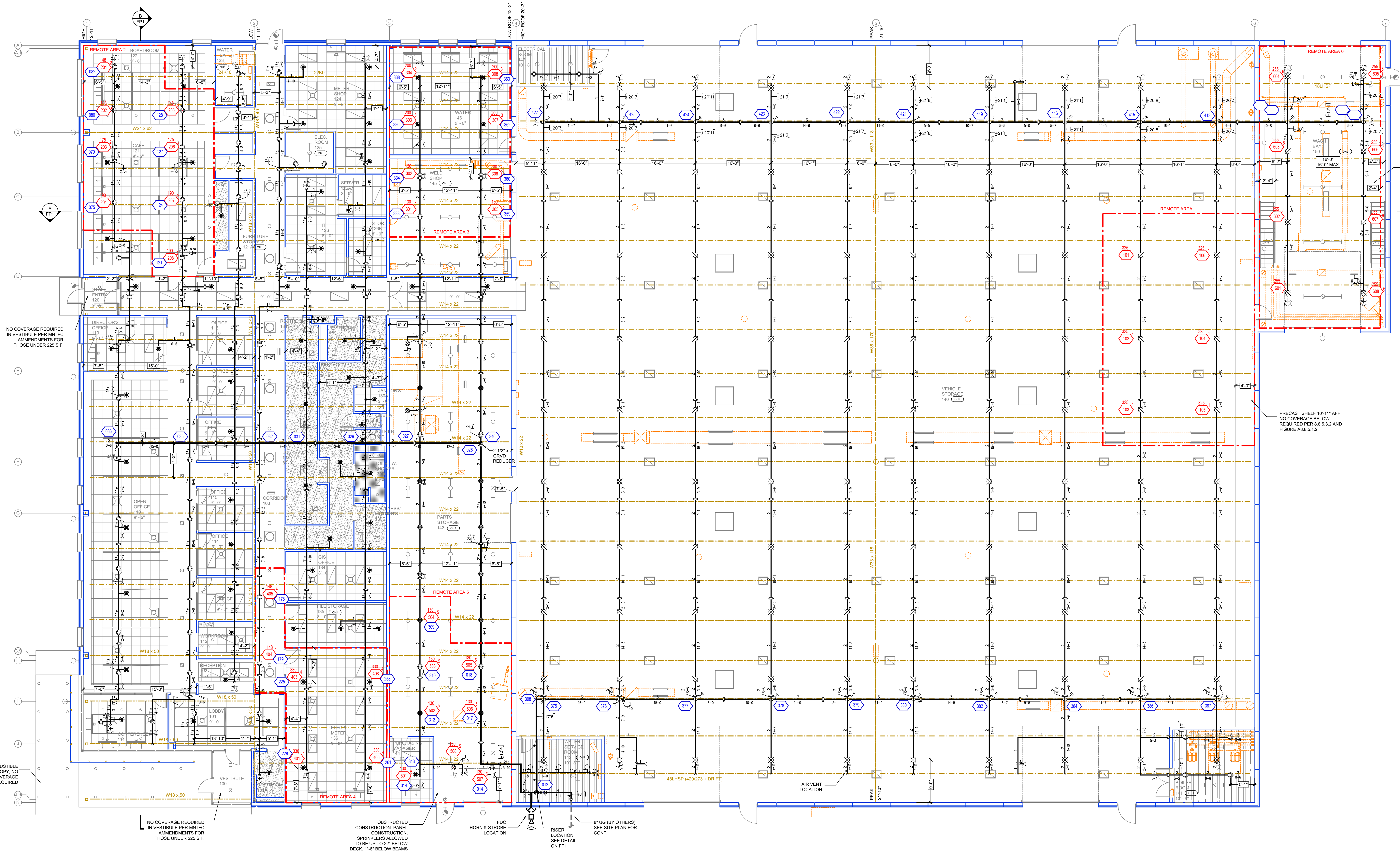
Drawing Date: 1/30/2

Scale: $1/8" = 1'-0"$

Drawn By: AMM

Approval By: STATE
MARSH

SHEET NO. **FP 1 of 2**



MAIN LEVEL FIRE SPRINKLER PLAN
SCALE = 1/8" = 1'-0"

Design Area #1 HAZARD: OH-2
Zone: 1 System Type: WET
Location: VEHICLE STORAGE 140
Flowing Outlets: 6
Density: 0.20 Remote Area: 1500
Flow: 641.4 gpm @ 51.9 psi
Calculation Safety: 9.9 psi
Includes 250 gpm Hose allowance
NOTE: DESIGN AREA IS 18X18
EXTENDED COVERAGE SPRINKLERS,
1500 SF CALCULATED PER 11.2.3.2.3

Design Area #2 HAZARD: LIGHT
Zone: 1 System Type: WET
Location: CAFE 121
Flowing Outlets: 8
Density: 0.10 Remote Area: 975
Flow: 253.8 gpm @ 52.8 psi
Calculation Safety: 10 psi
Includes 100 gpm Hose allowance
NOTE: DESIGN AREA REDUCED BY
35% TO 975 SF PER 11.2.3.2.3.1

Design Area #3 HAZARD: OH-1
Zone: 1 System Type: WET
Location: WELD SHOP 145
WATER 146
Flowing Outlets: 8
Density: 0.15 Remote Area: 975
Flow: 433.5 gpm @ 44.7 psi
Calculation Safety: 17.8 psi
Includes 250 gpm Hose allowance
NOTE: DESIGN AREA REDUCED BY
35% TO 975 SF PER 11.2.3.2.3.1

Design Area #4 HAZARD: LIGHT
Zone: 1 System Type: WET
Location: ELEC & METER 136
Flowing Outlets: 9
Density: 0.10 Remote Area: 900
Flow: 286.4 gpm @ 54.7 psi
Calculation Safety: 8.7 psi
Includes 250 gpm Hose allowance
NOTE: ROOM DESIGN METHOD USED
FOR REMOTE AREA PER 11.2.3.3

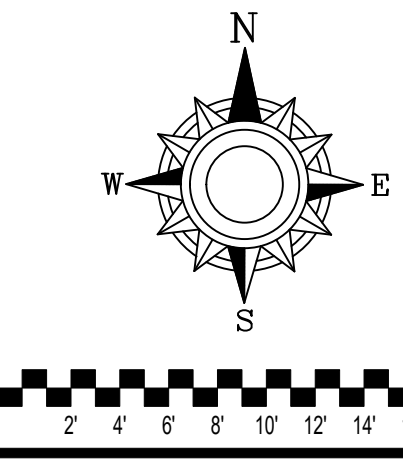
Design Area #5 HAZARD: OH-2
Zone: 1 System Type: WET
Location: PARTS STORAGE 143
Flowing Outlets: 8
Density: 0.20 Remote Area: 975
Flow: 511.2 gpm @ 51.5 psi
Calculation Safety: 14.4 psi
Includes 250 gpm Hose allowance
NOTE: DESIGN AREA REDUCED BY
35% TO 975 SF PER 11.2.3.2.3.1

Design Area #6 HAZARD: OH-2
Zone: 1 System Type: WET
Location: WASH BAY 150
Flowing Outlets: 8
Density: 0.20 Remote Area: 1500
Flow: 673 gpm @ 51.5 psi
Calculation Safety: 10.3 psi
Includes 250 gpm Hose allowance
NOTE: DESIGN AREA IS 18X18
EXTENDED COVERAGE SPRINKLERS,
1500 SF CALCULATED PER 11.2.3.2.3

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	SPACING
108	UPRIGHT	BRASS	286	14.00	3/4"	V3425	VICTAULIC	FL-ECOH	NA	18x18	
39	PENDENT	WHITE	200	5.60	1/2"	V2708	VICTAULIC	FL-QR	RECESSED	LIGHT 225 SF	OH 130 SF
108	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	NA	LIGHT 225 SF	OH 130 SF
39	PENDENT	WHITE	200	11.20	3/4"	TYG237	TYCO	EC-11	RECESSED	18x18	
39	SIDEWALL	BRASS	200	5.60	1/2"	V2758	VICTAULIC	FL-EC1H	NA	18x18	
22	UPRIGHT	BRASS	286	8.00	3/4"	V3402	VICTAULIC	FL-QR	NA	LIGHT 130 SF	
3	UPRIGHT	BRASS	286	5.60	1/2"	V2704	VICTAULIC	FL-QR	NA	LIGHT 225 SF	OH 130 SF
276	TOTAL										

ALL SPRINKLERS ARE INTERMEDIATE TEMP HEADS U.N.O. PER 8.3.2.1



- GENERAL NOTES**
- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
 - ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
 - MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
 - ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
 - ALL WELDING PER NFPA-514 (2015)
 - NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
 - ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
 - ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
 - HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
 - PROVIDE ONE SPARE HEAD CABINET W/6 HEADS & 1 HEAD WRENCH
 - HANGERS ARE TO BE U.L. LISTED
 - ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
 - OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

NO	REVISIONS	DATE	APPROVAL STAMPS
1	CHANGED PENDENT EC TYPE TO TYCO 5237	4/22/25	

Drawing Title: FIRE PROTECTION PLAN

ALEXANDRIA
LIGHT & POWER
ALEXANDRIA, MN

Contract No: C24-96

Drawing Date: 1/30/25

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

Drawn By: AMM

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO: FP 2 of 2