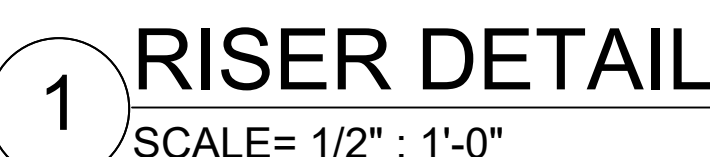
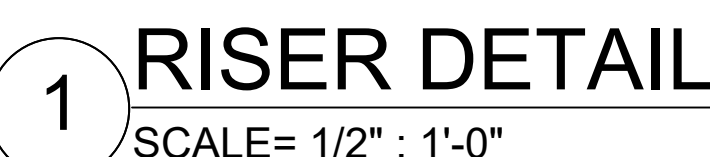
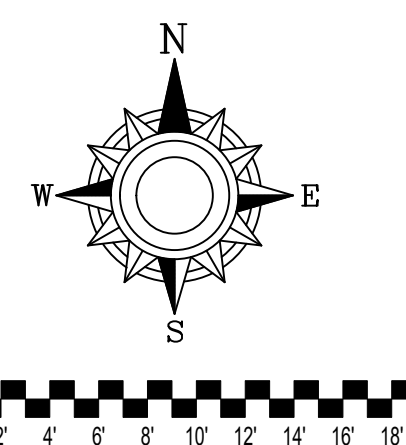




SPRINKLER HEAD LEGEND

HANGER DETAILS

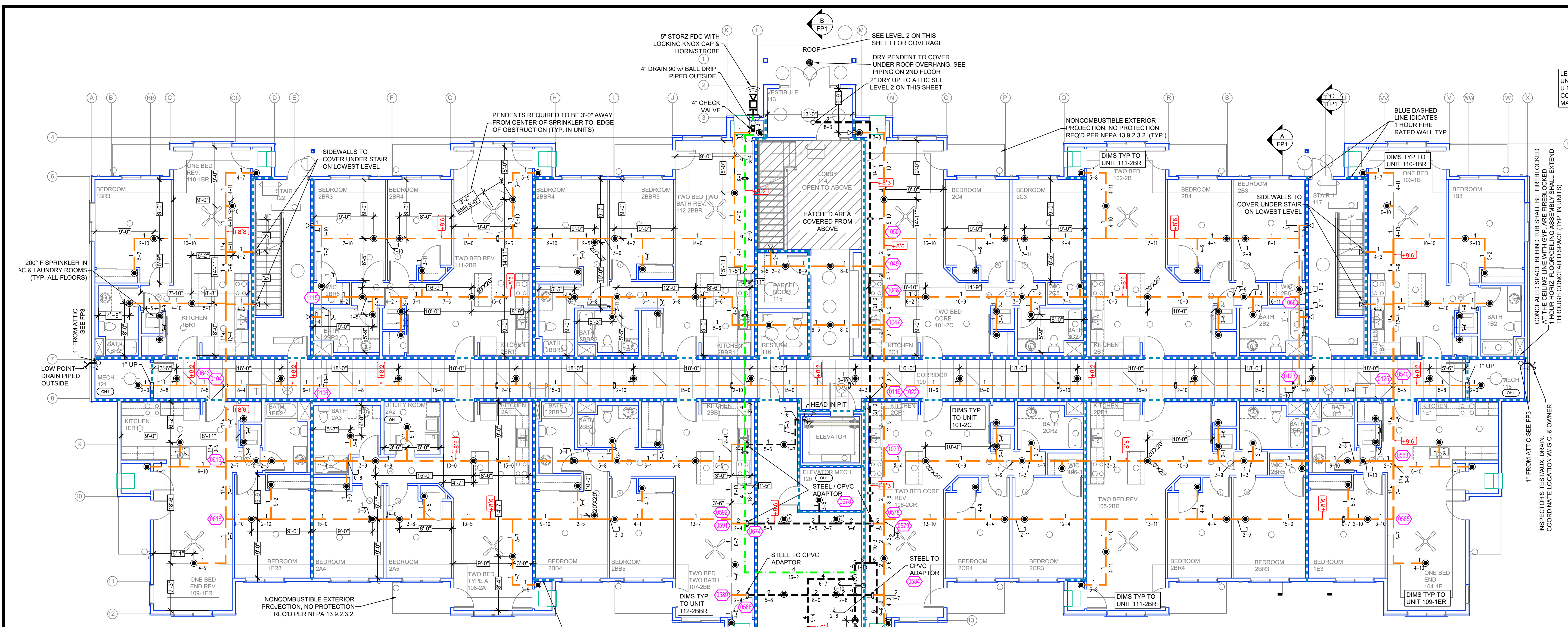
NFPA 13 STEEL PIPE HANGER SPACING (EXCEPT LIGHT WALL THRD PIPING)	
NOMINAL SIZE inches	MAX SPACING feet
1"	12'-0"
1-1/4"	12'-0"
1-1/2"	15'-0"
2"	15'-0"
2-1/2"	15'-0"
3"	15'-0"
4" & LARGER	15'-0"



2	SYSTEM INSTALLED PER NFPA-13 (2019 EDITION) AND STATE FIRE MARSHAL
3	ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
4	MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
5	ALL SCH-40 LIGHTWALL PIPING SHALL BE INSTALLED WITH APPROVED SHOP DRADINGS
6	ALL WELDING PER NFPA-13(2-6)
7	ALL 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 LOCATED WHERE REQUIRED
11	PROVIDE ON SPARE HEAD CABINET w/12 HEADS & 1 HEAD WRENCH
12	HANGERS ARE TO BE U.L. LISTED AND 1/2" APPROX
13	ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
14	OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT
15	WET SYSTEM PIPING FROM FREEZING

[illegible]

Drawing Title: FIRE PROTECTION PLAN	Contract No: C26-20
<div> <div>CEDAR WEST</div> <div>APARTMENT BUILDING 1</div> <div>4530 CEDAR HEIGHTS DRIVE</div> <div>CEDAR FALLS, IA. 55013</div> </div>	Drawing Date: 04/07/2026
	Scale: 1/8" = 1'-0"
	Drawn By: BCJ
	Approval By: STATE FIRE MARSHAL DIV.
	SHEET NO. FP 1 of 3



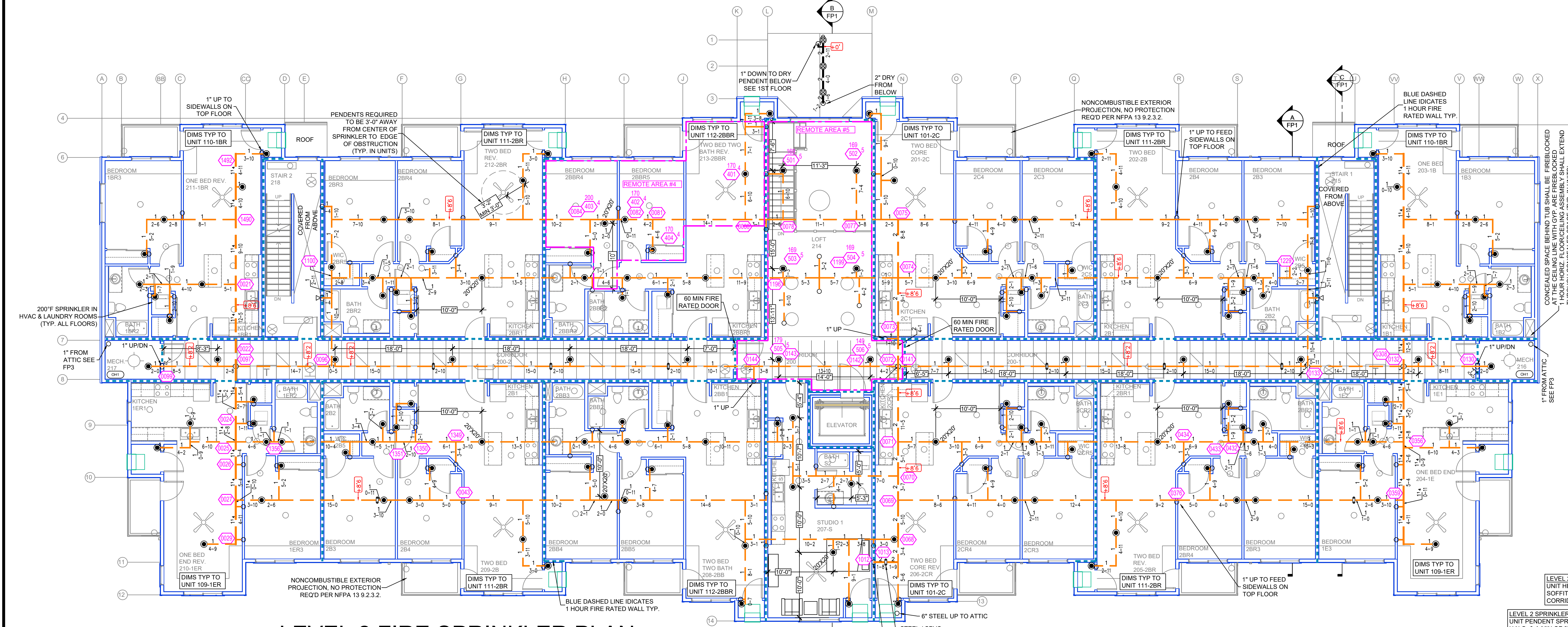
LEVEL 1 FIRE SPRINKLER PLAN
SCALE = 1/8" : 1'-0"

LEVEL 1 NOTE
UNIT HEIGHT: 8'-0", TYP.
SOFFIT HEIGHT: 7'-0", TYP.
CORRIDOR HEIGHT: 8'-0", TYP.

LEVEL 1 SPRINKLER NOTES
UNIT PENDENT SPRINKLERS SPACED A MAX OF 18'x18'
U.N.O. & A MIN OF 3'-0" FROM HOUSING OF FANS
CORRIDOR PENDENT SPRINKLERS ARE SPACED A
MAX OF 18'x18' TYP.

Design Area # 4 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: LEVEL 2 TWO BED
TWO BATH 213-2B8R
Flowing Outlets: 4
Density: 0.10 Remote Area: 517
Flow: 180.8 gpm @ 45.5 psi
Calculation Safety: 7.5 psi
Includes 100 gpm hose allowance

NOTE:
FOUR MOST DEMANDING RESIDENTIAL
SPRINKLERS CALCULATED PER NFPA 13 SEC.
19.4.1.1.



LEVEL 2 FIRE SPRINKLER PLAN
SCALE = 1/8" : 1'-0"

Design Area # 5 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: LEVEL 2 UPPER LOBBY/
LOFT
Flowing Outlets: 6
Density: 0.10 Remote Area: 697
Flow: 205.5 gpm @ 30.2 psi
Calculation Safety: 22.7 psi
Includes 100 gpm hose allowance

NOTE:
CALCULATED PER ROOM DESIGN METHOD
NFPA 13 SEC. 19.3.3.3.

PIPE LEGEND

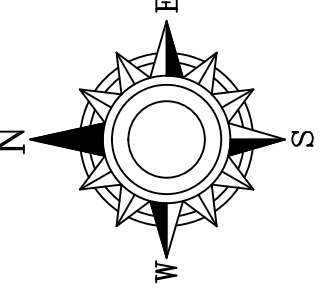
—	BLACK STEEL FIRE SPRINKLER PIPING
---	CPVC FIRE SPRINKLER PIPING
---	FIRE SPRINKLER FDC PIPING

SPRINKLER FDC PIPING LEGEND

SYN	CNT	POSITION	FINISH	TEMP	K	NPT	SR	IMG	MODEL#	ESCUTCHEON	MAX SPACING
234	1	UPRIGHT	BRASS	200°	5.80	1/2"	V2704	VICTAULIC	V2740	SEM-RECESS	225 SF (LH) - 130 SF (OH)
68	1	PENDENT	WHITE	155°	4.90	1/2"	V2708	VICTAULIC	V2708	SEM-RECESS	18' x 18' U.N.O.
46	1	SIDEWALL	WHITE	200°	5.80	1/2"	V2710	VICTAULIC	V2710	SEM-RECESS	225 SF (LH) - 130 SF (OH)
132	1	SIDEWALL	WHITE	155°	4.90	1/2"	VK486	VIKING	VK486	SEM-RECESS	16' x 16' U.N.O.
78	1	UPRIGHT / SPRIG	BRASS	200°	5.80	1/2"	RA5626	RELIABLE	RA5626	N/A	10' x 10'
23	1	UPRIGHT / SPRIG	BRASS	200°	5.80	1/2"	RA5624	RELIABLE	RA5624	N/A	8' x 40'
25	1	UPRIGHT / SPRIG	BRASS	200°	8.00	3/4"	RA5622	RELIABLE	RA5622	N/A	8' x 40'
1	1	PENDENT	CHROME	200°	5.80	1"	RS714	RELIABLE	F30R56	401	14' x 14'
609		TOTAL SPRINKLER									

LEVEL 2 NOTE
UNIT HEIGHT: 7'-11", TYP.
SOFFIT HEIGHT: 6'-11", TYP.
CORRIDOR HEIGHT: 8'-0", TYP.

LEVEL 2 SPRINKLER NOTES
UNIT PENDENT SPRINKLERS SPACED A MAX OF 18'x18'
U.N.O. & A MIN OF 3'-0" FROM HOUSING OF FANS
CORRIDOR PENDENT SPRINKLERS ARE SPACED A
MAX OF 18'x18' TYP.



2 4 6 8 10 12 14 16 18

GENERAL NOTES

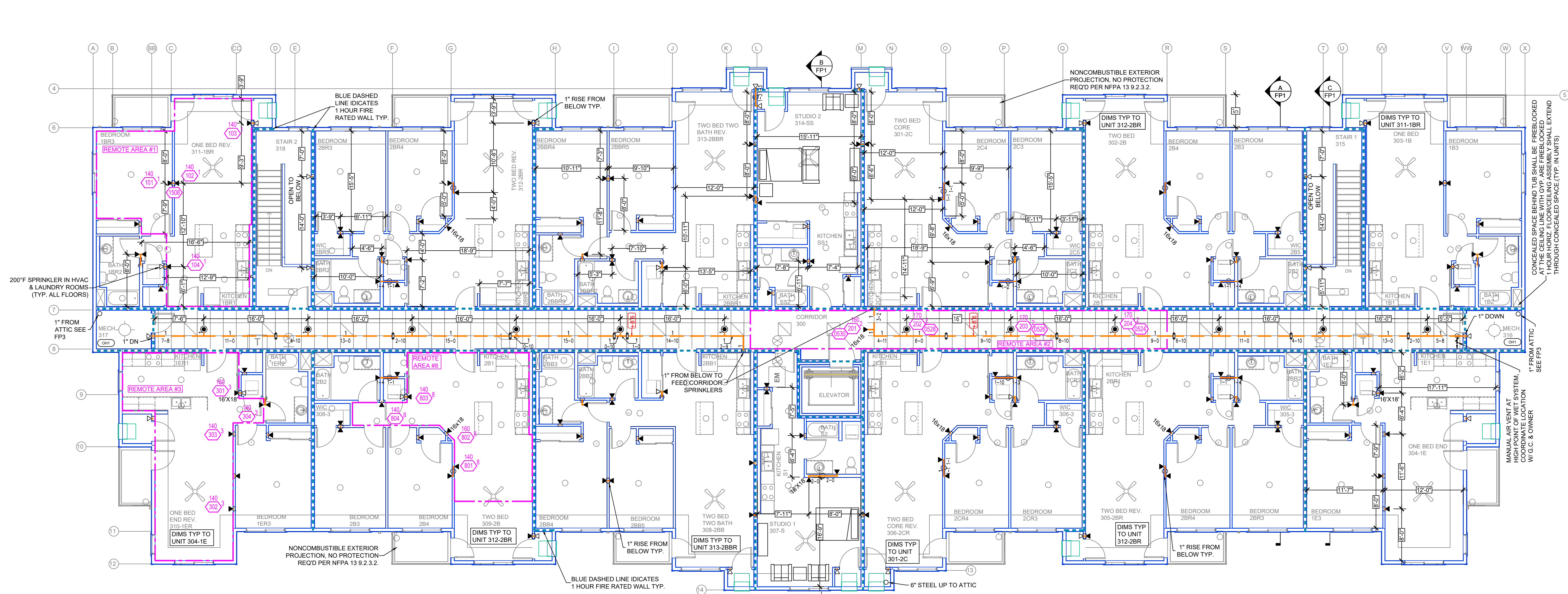
- SYSTEM INSTALLED PER NFPA-13 (2019 EDITION) AND STATE FIRE MARSHAL
- ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
- MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
- ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
- ALL WELDS PER NFPA-13 (2019 EDITION)
- NO INSTALLATION 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 ON SPARE HEAD CABINET w/12 HEADS & 1 HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND APPROVED
- 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

Drawing Title: FIRE PROTECTION PLAN

CEDAR WEST
APARTMENT BUILDING 1
4530 CEDAR HEIGHTS DRIVE
CEDAR FALLS, IA. 55013

Contract No: C26-20
Drawing Date: 04/07/2026
Scale: 1/8" = 1'-0"
Drawn By: BCJ
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO: FP 2 of 3



LEVEL 3 FIRE SPRINKLER PLAN
SCALE= 1/8" : 1'-0"

LEVEL 3 NOTE:
UNIT HEIGHT: 7'-11" TYP.
SOFFIT HEIGHT: 6'-11" TYP.
CORRIDOR HEIGHT: 8'-2" TYP.

LEVEL 3 SPRINKLER NOTES:
4.0K RES. SIDEWALL SPK'S SPACED A MAX OF 16'X16' U.N.O. & INSTALLED 6"-12" DN. TYP.
CORRIDOR PENDENTS ARE SPACED A MAX OF 18'X18' TYP.

Design Area #1 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: 3RD FLOOR ONE BED REV 311-1BR
Flowing Outlets: 4
Density: 0.10 Remote Area: 559
Flow: 159.2 gpm @ 42.8 psi
Calculation Safety: 10.1 psi
Includes 100 gpm Hose allowance

NOTE:
FOUR MOST DEMANDING RESIDENTIAL SPRINKLERS CALCULATED PER NFPA 13 SEC. 19.4.1.1.

Design Area #8 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: LEVEL 3 TWO BED 309-2B
Flowing Outlets: 4
Density: 0.10 Remote Area: 488
Flow: 165.4 gpm @ 43.6 psi
Calculation Safety: 9.4 psi
Includes 100 gpm Hose allowance

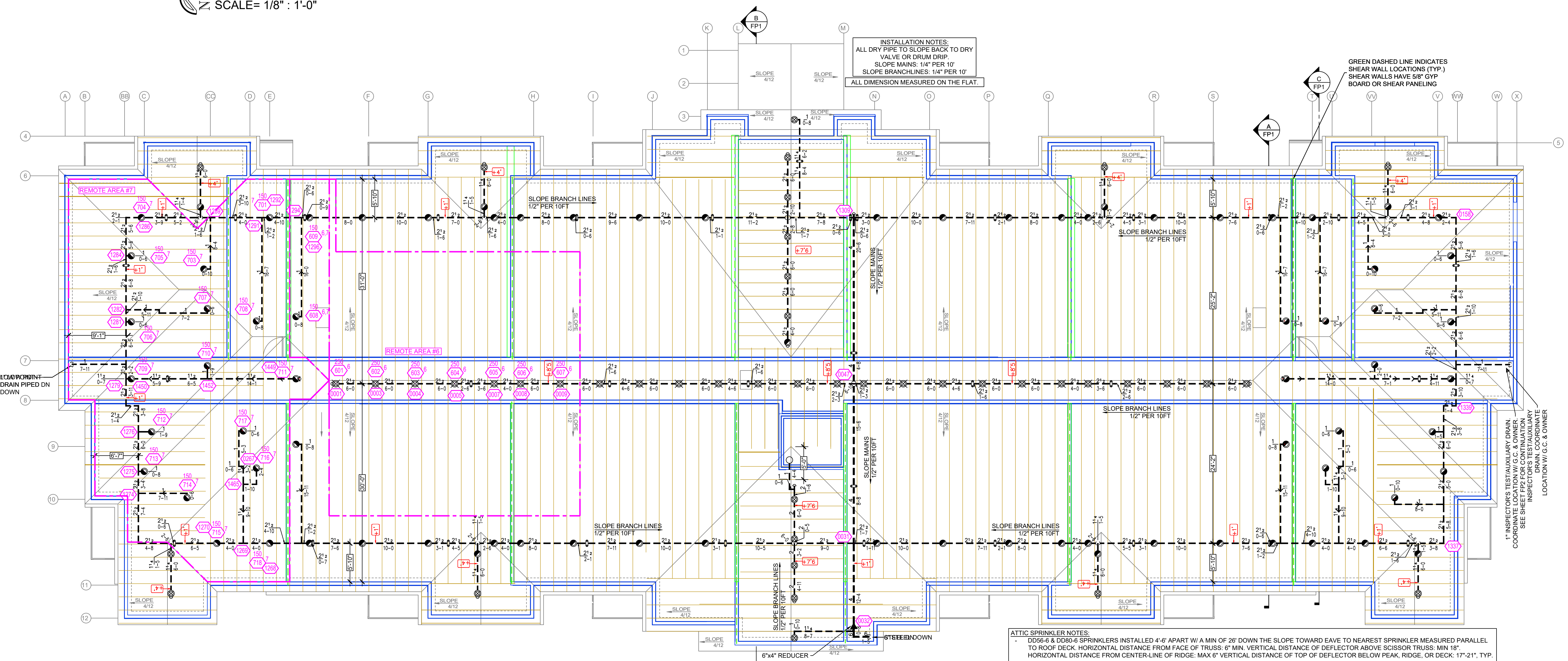
NOTE:
FOUR MOST DEMANDING RESIDENTIAL SPRINKLERS CALCULATED PER NFPA 13 SEC. 19.4.1.1.

Design Area #2 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: 3RD FLOOR CORRIDOR
Flowing Outlets: 4
Density: 0.10 Remote Area: 404
Flow: 171.9 gpm @ 45.8 psi
Calculation Safety: 7.2 psi
Includes 100 gpm Hose allowance

NOTE:
FOUR MOST DEMANDING RESIDENTIAL SPRINKLERS CALCULATED PER NFPA 13 SEC. 19.4.1.1.

Design Area #3 HAZARD: LIGHT
Zone: 2 System Type: WET
Location: LEVEL 3 ONE BED END REV 310-1ER
Flowing Outlets: 4
Density: 0.10 Remote Area: 451
Flow: 163.7 gpm @ 40.9 psi
Calculation Safety: 12.1 psi
Includes 100 gpm Hose allowance

NOTE:
FOUR MOST DEMANDING RESIDENTIAL SPRINKLERS CALCULATED PER NFPA 13 SEC. 19.4.1.1.



ATTIC FIRE SPRINKLER PLAN
SCALE= 1/8" : 1'-0"

Design Area #6 HAZARD: LIGHT
Zone: 3 System Type: DRY
Location: ATTIC RIDGE
Flowing Outlets: 9
Density: 0.10 Remote Area: 9
Flow: 328.4 gpm @ 44.3 psi
Calculation Safety: 8.6 psi
Includes 100 gpm Hose allowance

NOTE:
7 DD AND 2 AH SPRINKLERS CALCULATED PER MANUFACTURER'S CUT SHEET

Design Area #7 HAZARD: LIGHT
Zone: 3 System Type: DRY
Location: ATTIC HIP
Flowing Outlets: 21
Density: 0.10 Remote Area: 1950
Flow: 435.3 gpm @ 45.5 psi
Calculation Safety: 7.3 psi
Includes 100 gpm Hose allowance

NOTE:
UP TO 1950 SF CALCULATION PER MANUFACTURER'S CUT SHEET

PIPE LEGEND

	BLACK STEEL FIRE SPRINKLER PIPING
	CPVC FIRE SPRINKLER PIPING
	FIRE SPRINKLER FDC PIPING

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	YEAR	K	N/P	SN	MFG	MODEL#	ESCUTCHEON	MAX SPACING
○	1	UPRIGHT	BRASS	2007	5.60	1/2"	V2704	VICTAULIC	V27	N/A	225 SF (LH) - 130 SF (CH)
●	234	PENDENT	WHITE	2007	5.60	1/2"	V2740	VICTAULIC	V2740	SEM-RECESS	18' x 18' U.N.O.
●	69	PENDENT	WHITE	2007	5.60	1/2"	V2708	VICTAULIC	V2708	SEM-RECESS	225 SF (LH) - 130 SF (CH)
●	46	SIDEWALL	WHITE	2007	5.60	1/2"	V2710	VICTAULIC	V27	SEM-RECESS	186 SF (LH) - 100 SF (CH)
●	132	SIDEWALL	WHITE	1957	4.00	1/2"	W448	WYKING	W448	SEM-RECESS	18' x 18' U.N.O.
●	78	UPRIGHT / SPRIG	BRASS	2112	5.60	1/2"	RA5626	RELIABLE	AH56	N/A	10' x 15'
●	23	UPRIGHT / SPRIG	BRASS	2007	5.60	1/2"	RA5624	RELIABLE	D056-6	N/A	6' x 40'
●	25	UPRIGHT / SPRIG	BRASS	2007	8.00	3/4"	RA5622	RELIABLE	D080-6	N/A	6' x 40'
●	1	PENDENT	CHROME	2007	5.60	1"	RS714	RELIABLE	F3QR56	401	14' x 14'
●	609	TOTAL SPRINKLER									

ATTIC SPRINKLER NOTES:
- D056-6 & D080-6 SPRINKLERS INSTALLED 4'-6" APART W/ A MIN OF 26" DOWN THE SLOPE TOWARD EAVE TO NEAREST SPRINKLER MEASURED PARALLEL TO ROOF DECK. HORIZONTAL DISTANCE FROM FACE OF TRUSS: 6" MIN. VERTICAL DISTANCE OF DEFLECTOR ABOVE SCISSOR TRUSS: MIN 18". HORIZONTAL DISTANCE FROM CENTERLINE OF RIDGE: MAX 9" VERTICAL DISTANCE OF TOP OF DEFLECTOR BELOW PEAK RIDGE, OR DECK: 17'-21" TYP.
- AH56 SPRINKLERS INSTALLED 6'-10" APART W/ A MIN OF 12" DOWN THE SLOPE TO NEAREST SPRINKLER MEASURED PARALLEL TO ROOF DECK. TYP. A MIN 2" LATERAL OFFSET IS REQUIRED BETWEEN SPRINKLERS WHEN VIEWED LOOKING UP THE ROOF SLOPE. DISTANCE FROM TOP OF DEFLECTOR TO BOTTOM OF TRUSS TOP CORD: 1'-3" TYP.

GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2019 EDITION) AND STATE FIRE MARSHAL
2. ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
3. MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
4. ALL SCH-40 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
5. ALL WELDING PER NFPA-514(2)
6. NO INSTALLATION OR FABRICATION TO BEGIN WITHOUT APPROVED SHOP DRAWINGS
7. ALL PIPE LOCATIONS ARE TO BE FIELD MEASURED PRIOR TO FABRICATION AND INSTALLATION BY SPRINKLER CONTRACTOR
8. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER
9. HIGH TEMPERATURE HEADS ARE TO BE FIELD LOCATED WHERE REQUIRED
10. PROVIDE ON SPRINKLER HEAD CABINET W/2 HEADS & 1 HEAD WRENCH
11. HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED
12. ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
13. OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

NO	REVISIONS	DATE	APPROVAL STAMPS

Drawing Title: FIRE PROTECTION PLAN

CEDAR WEST
APARTMENT BUILDING 1
4530 CEDAR HEIGHTS DRIVE
CEDAR FALLS, IA. 55013

Contract No: **C26-20**

Drawing Date: 04/07/2026

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

Drawn By: BCJ

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO: FP 3 of 3