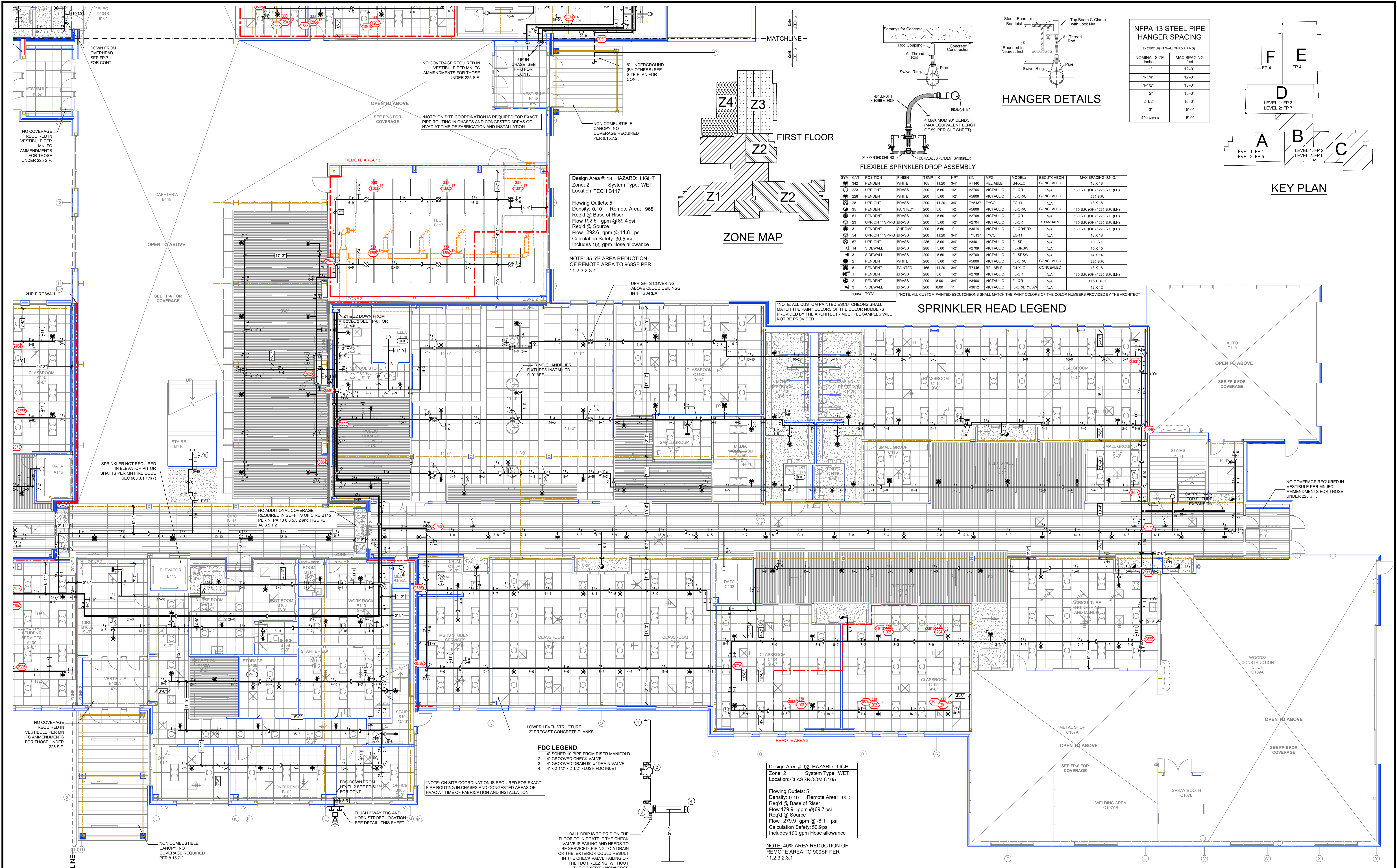
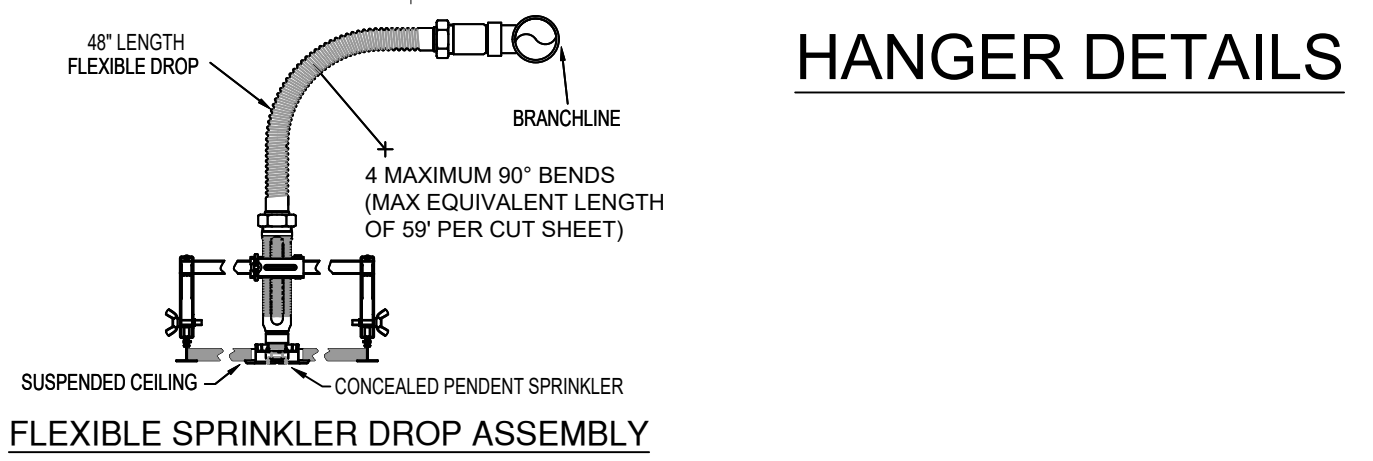
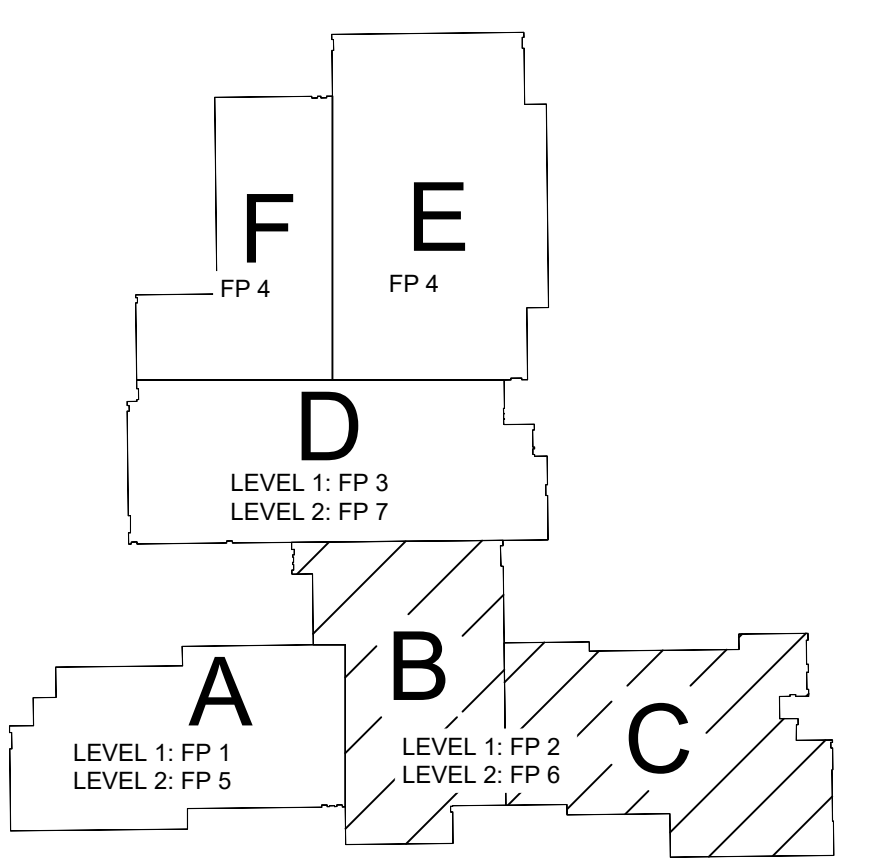




NFPA 13 STEEL PIPE HANGER SPACING

(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"



FLEXIBLE SPRINKLER DROP ASSEMBLY

SYM	CNT	POSITION	FINISH	TEMP	K	NPT	SIN	MFG	MODEL#	ESCUTCHEON	MAX SPACING U.O.
342	PENDENT	WHITE	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	N/A	18 X 18
223	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	225 S.F.
228	PENDENT	WHITE	200	5.60	1/2"	V5606	VICTAULIC	FL-QRC	CONCEALED	N/A	18 X 18
28	UPRIGHT	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A	130 S.F. (CH) / 225 S.F. (LH)	18 X 18
35	PENDENT	PAINTED*	200	5.6	1/2"	V5606	VICTAULIC	FL-QRC	CONCEALED	N/A	130 S.F. (CH) / 225 S.F. (LH)
51	PENDENT	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	225 S.F.
23	UPR ON 1" SPRIG	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	STANDARD	130 S.F. (CH) / 225 S.F. (LH)	18 X 18
3	PENDENT	CHROME	200	5.60	1"	V3614	VICTAULIC	FL-GRDARY	N/A	130 S.F. (CH) / 225 S.F. (LH)	18 X 18
54	UPR ON 1" SPRIG	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A	130 S.F. (CH) / 225 S.F. (LH)	18 X 18
67	UPRIGHT	BRASS	286	8.00	3/4"	V3401	VICTAULIC	FL-SR	N/A	130 S.F.	10 X 10
14	SIDEWALL	BRASS	286	5.60	1/2"	V2709	VICTAULIC	FL-SRWS	N/A	10 X 10	14 X 14
3	SIDEWALL	BRASS	200	5.60	1/2"	V2709	VICTAULIC	FL-SRWS	N/A	14 X 14	225 S.F.
2	PENDENT	WHITE	286	5.60	1/2"	V5606	VICTAULIC	FL-QRC	CONCEALED	N/A	18 X 18
5	PENDENT	PAINTED	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	N/A	18 X 18
1	PENDENT	BRASS	286	5.6	1/2"	V2708	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	90 S.F. (EH)
2	PENDENT	BRASS	200	8.00	3/4"	V3406	VICTAULIC	FL-QR	N/A	90 S.F. (EH)	12 X 12
3	SIDEWALL	BRASS	200	8.00	1"	V3612	VICTAULIC	FL-GRDARYSW	N/A	12 X 12	
1,084	TOTAL										

SPRINKLER HEAD LEGEND

LEVEL 1 - B & C FIRE SPRINKLER PLAN
SCALE= 1/8" = 1'-0"

FDC DETAIL

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 (2011)
- 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 SPRINKLER HEAD CABINET WITH HEADS & HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

NO	REVISIONS	DATE	APPROVAL STAMPS
1	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	1/27/25	I certify that this plan was prepared by me or under my direct supervision and that I am NICET Certified at Level IV in Water-Based Sprinkler System Layout. Darin T. Syverson Reg. No. 125413 1/27/2025

Drawing Title: FIRE PROTECTION PLAN

GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

Contract No. C24.41

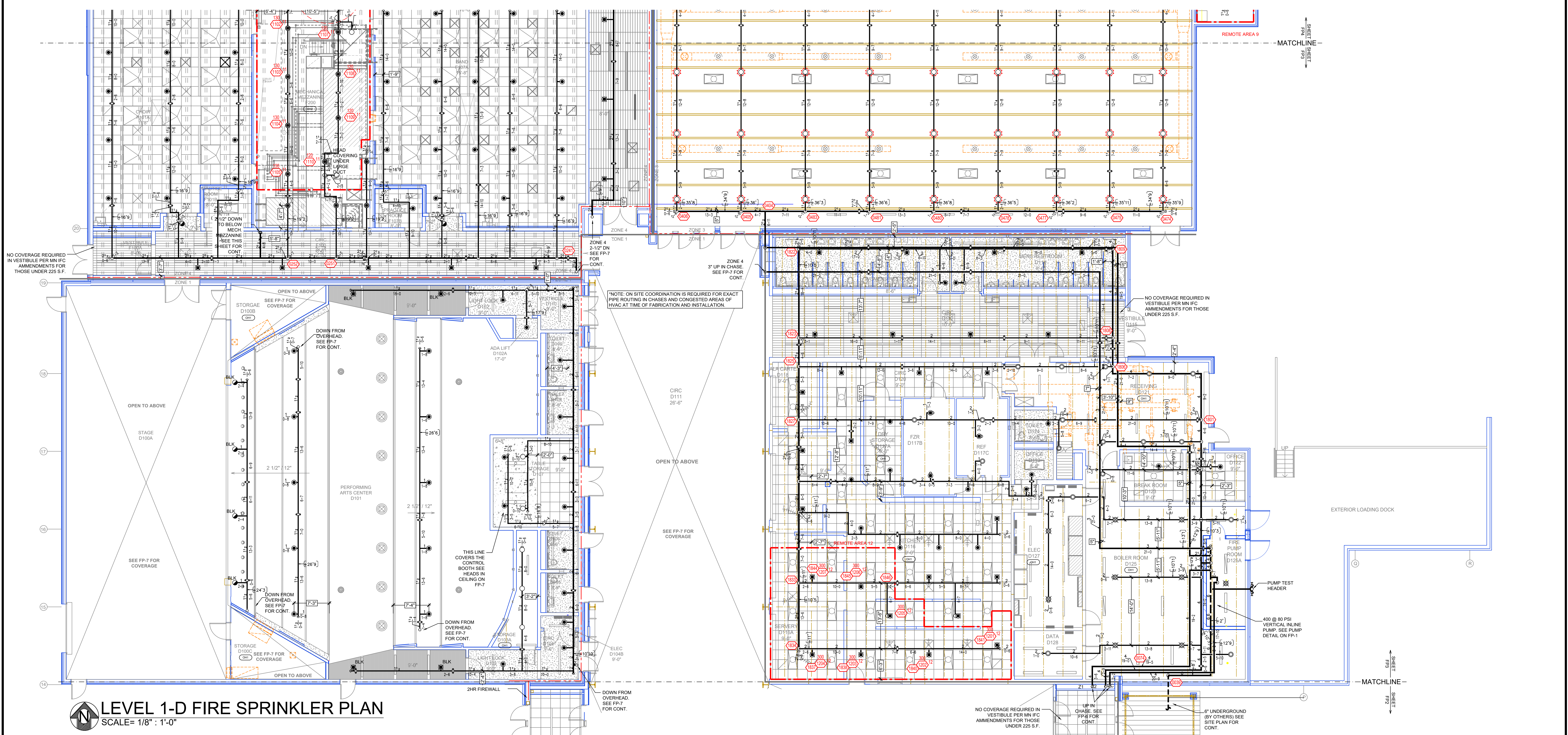
Drawing Date: 10/18/24

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

Drawn By: AMM

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 2 of 7

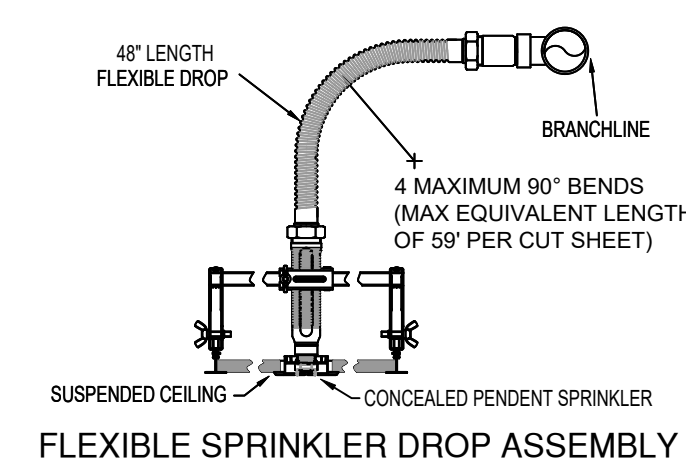


LEVEL 1-D FIRE SPRINKLER PLAN
SCALE= 1/8" = 1'-0"

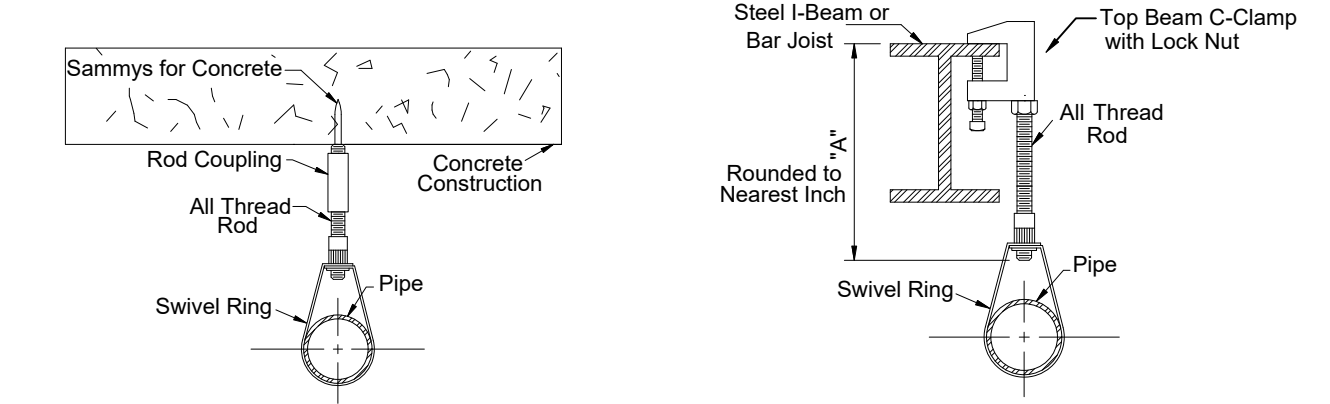
SYM	QTY	POSITION	FINISH	TEMP	K	NPT	SIN	MFG.	MODEL#	ESCUTCHEON	MAX SPACING	U.N.O.
342	PENDENT	WHITE	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	N/A	18 X 18	
223	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QRC	N/A	130 S.F. (OH) / 225 S.F. (LH)		
228	PENDENT	WHITE	200	5.60	1/2"	V5006	VICTAULIC	FL-QRC	CONCEALED	N/A	225 S.F.	
28	UPRIGHT	BRASS	200	11.20	3/4"	TYS137	TYCO	EC-11	N/A	18 X 18		
35	PENDENT	PAINTED*	200	5.6	1/2"	V5006	VICTAULIC	FL-QRC	CONCEALED	N/A	130 S.F. (OH) / 225 S.F. (LH)	
51	PENDENT	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-QRC	N/A	130 S.F. (OH) / 225 S.F. (LH)		
23	UPR ON 1" SPRING	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QRC	STANDARD	N/A	130 S.F. (OH) / 225 S.F. (LH)	
3	PENDENT	CHROME	200	5.60	1"	V3614	VICTAULIC	FL-QRC	N/A	130 S.F. (OH) / 225 S.F. (LH)		
14	UPR ON 1" SPRING	BRASS	200	11.20	3/4"	TYS137	TYCO	EC-11	N/A	18 X 18		
17	UPRIGHT	BRASS	200	8.00	3/4"	V3601	VICTAULIC	FL-SR	N/A	130 S.F.		
14	SIDEWALL	BRASS	286	5.60	1/2"	V2709	VICTAULIC	FL-SR	N/A	10 X 10		
3	SIDEWALL	BRASS	200	5.60	1/2"	V2709	VICTAULIC	FL-SR	N/A	14 X 14		
2	PENDENT	WHITE	286	5.60	1/2"	V5006	VICTAULIC	FL-QRC	CONCEALED	N/A	225 S.F.	
5	PENDENT	PAINTED	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	N/A	18 X 18	
1	PENDENT	BRASS	200	5.6	1/2"	V2709	VICTAULIC	FL-QRC	N/A	130 S.F. (OH) / 225 S.F. (LH)		
2	PENDENT	BRASS	200	8.00	3/4"	V3606	VICTAULIC	FL-QRC	N/A	80 S.F. (EH)		
3	SIDEWALL	BRASS	200	8.00	1"	V3612	VICTAULIC	FL-QRC	CONCEALED	N/A	12 X 12	
1,084	TOTAL											

*NOTE: ALL CUSTOM PAINTED ESCUTCHEONS SHALL MATCH THE PAINT COLORS OF THE COLOR NUMBERS PROVIDED BY THE ARCHITECT.

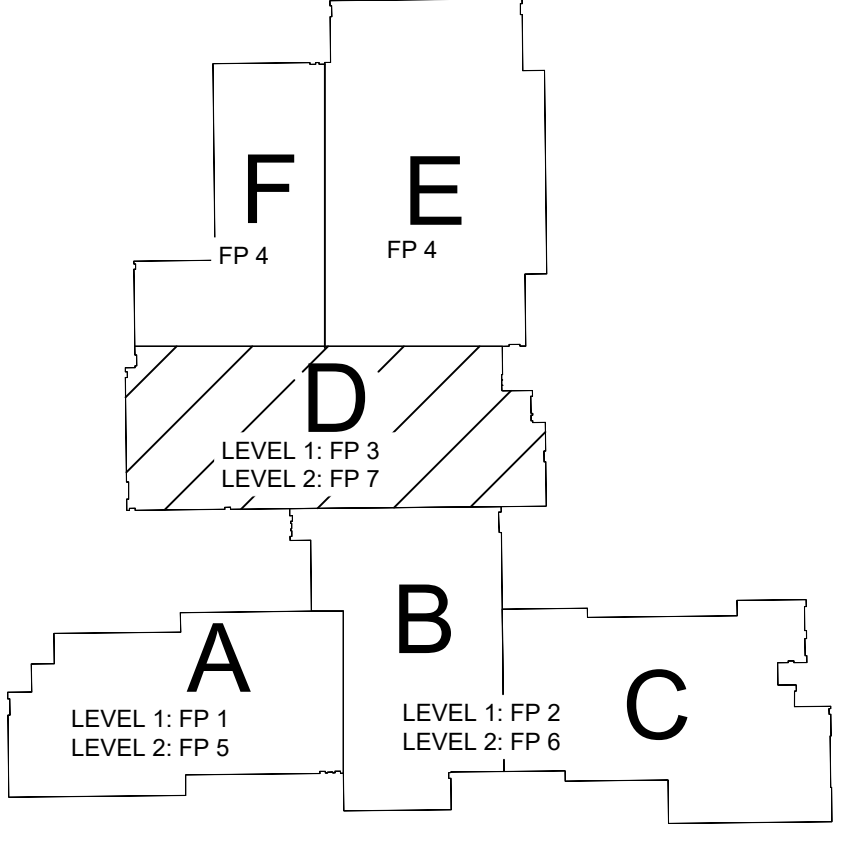
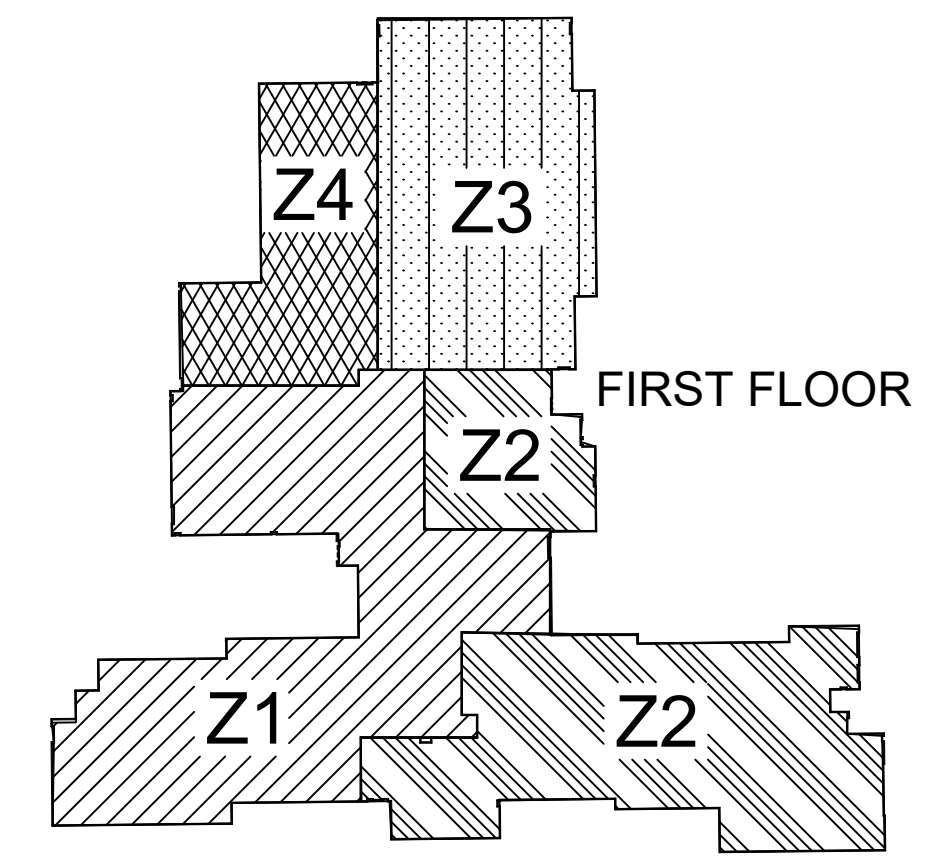
SPRINKLER HEAD LEGEND



HANGER DETAILS



NFFA 13 STEEL PIPE HANGER SPACING	
(EXCEPT LIGHT WALL THIRD PIPING)	
NOMINAL SIZE	MAX SPACING
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"



ZONE MAP

KEY PLAN

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 ON SPARK HEAD CABINET WITH HEADS & HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED & F.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNER RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING

NO	REVISIONS	DATE
1	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	1/27/25

APPROVAL STAMPS

I certify that this plan was prepared by me or under my direct supervision and that I am NICET Certified at Level IV in Water-Based Sprinkler System Layout.

Darin T. Syverson
Reg. No. 125413 1/27/2025

Drawing Title: FIRE PROTECTION PLAN

GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

Contract No. C24.41

Drawing Date: 10/18/24

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

Drawn By: AMM

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 3 of 7

Design Area #: 10 HAZARD: LIGHT
Zone: 4 System Type: WET
Location: FITNESS ROOM F122

Flowing Outlets: 6
Density: 0.10 Remote Area: 975
Req'd @ Base of Riser
Flow 138.7 gpm @ 45.8 psi
Req'd @ Source
Flow 238.7 gpm @ -32.4 psi
Calculation Safety: 76 psi
Includes 100 gpm Hose allowance

NOTE: 27.8% AREA REDUCTION
OF REMOTE AREA TO 975SF PER
11.2.3.2.3.1

CONCRETE TEE CONSTRUCTION
-7'-6" APART. HEADS CAN BE
LOCATED AT OR ABOVE A
HORIZONTAL PLANE 1" BELOW
BOTTOM STEMS OF TEE PER
8.6.4.1.2(6)

NO COVERAGE REQUIRED IN
VESTIBULE PER MIN IFC
AMENDMENTS FOR THOSE
UNDER 225 S.F.

GALVANIZED
SCHED 40 PER
SPEC.

CAPPED MAIN FOR
FUTURE EXPANSION

ZONE 3
AIR VENT

SCHED 40 PER
SPEC.

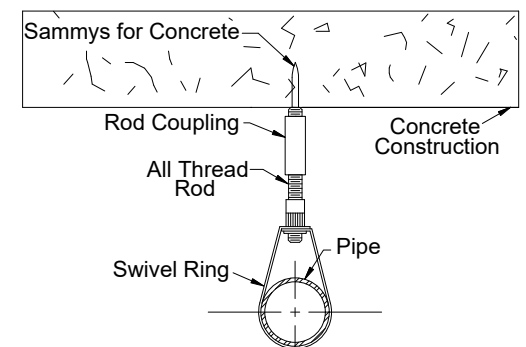
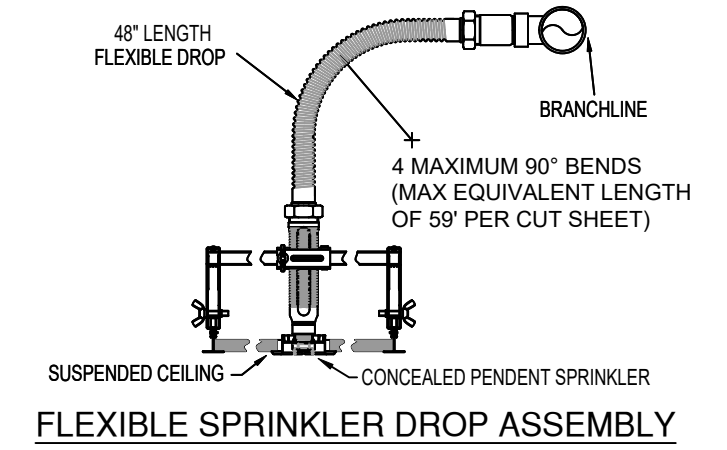
COORDINATE
DROP WITH HVAC
TO CONCEAL
ALONG WALL

ZONE MAP

KEY PLAN

NFPA 13 STEEL PIPE HANGER SPACING

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"



HANGER DETAILS

Design Area #: 08 HAZARD: LIGHT
Zone: 3 System Type: WET
Location: GYM E100

Flowing Outlets: 11
Density: 0.10 Remote Area: 1500
Req'd @ Base of Riser
Flow 199.8 gpm @ 60.4 psi
Req'd @ Source
Flow 299.8 gpm @ -13.5 psi
Calculation Safety: 55.4 psi
Includes 100 gpm Hose allowance

NOTE: GRID PEAKED

Design Area #: 09 HAZARD: OH-1
Zone: 3 System Type: WET
Location: STORAGE E101
ELEC 101B

Flowing Outlets: 7
Density: 0.15 Remote Area: 1500
Req'd @ Base of Riser
Flow 127.7 gpm @ 99.6 psi
Req'd @ Source
Flow 377.7 gpm @ 23.1 psi
Calculation Safety: 15.1 psi
Includes 250 gpm Hose allowance

NOTE: AREA PROTECTED BY
SINGLE LINE OF SPRINKLERS. ALL
SPRINKLERS UP TO MAX OF 7
CALCULATED PER 11.2.3.4.2

SYM	ICN	POSITION	FINISH	TEMP	K	NPT	SN	MFG.	MODEL#	ESCUICHEON	MAX SPACING U.O.
342	PENDING	WHITE	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	18 X 18	
223	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-GR	CONCEALED	130 S.F. (OH) / 225 S.F. (LH)	
228	PENDING	WHITE	200	5.60	1/2"	V5606	VICTAULIC	FL-GR	CONCEALED	225 S.F.	
18	UPRIGHT	BRASS	200	11.20	3/4"	TV5197	TYCO	EC-11	N/A	18 X 18	
35	PENDING	PAINTED	200	5.6	1/2"	V5606	VICTAULIC	FL-GR	CONCEALED	130 S.F. (OH) / 225 S.F. (LH)	
51	PENDING	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-GR	CONCEALED	130 S.F. (OH) / 225 S.F. (LH)	
23	UPR ON 1" SPRIG	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-GR	STANDARD	130 S.F. (OH) / 225 S.F. (LH)	
3	PENDING	CHROME	200	5.60	1"	V3614	VICTAULIC	FL-GRDRY	N/A	130 S.F. (OH) / 225 S.F. (LH)	
54	UPR ON 1" SPRIG	BRASS	200	11.20	3/4"	TV5197	TYCO	EC-11	N/A	18 X 18	
17	UPRIGHT	BRASS	200	8.00	3/4"	V3407	VICTAULIC	FL-GR	N/A	130 S.F.	
14	SIDEWALL	BRASS	286	5.60	1/2"	V2709	VICTAULIC	FL-SRWS	N/A	10 X 10	
3	SIDEWALL	BRASS	200	5.60	1/2"	V2709	VICTAULIC	FL-SRWS	N/A	14 X 14	
2	PENDING	WHITE	286	5.60	1/2"	V5606	VICTAULIC	FL-GR	CONCEALED	225 S.F.	
5	PENDING	PAINTED	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED	18 X 18	
1	PENDING	BRASS	286	5.6	1/2"	V2708	VICTAULIC	FL-GR	N/A	130 S.F. (OH) / 225 S.F. (LH)	
2	PENDING	BRASS	200	8.00	3/4"	V3406	VICTAULIC	FL-GR	N/A	80 S.F. (EH)	
3	SIDEWALL	BRASS	200	8.00	1"	V3612	VICTAULIC	FL-GRDRY	N/A	12 X 12	
1,084	TOTAL										

NOTE: ALL CUSTOM PAINTED ESCUICHEONS SHALL MATCH THE PAINT COLORS OF THE COLOR NUMBERS PROVIDED BY THE ARCHT

SPRINKLER HEAD LEGEND

APPROVAL STAMPS

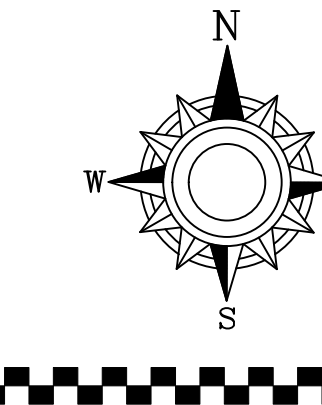
I certify that this plan was prepared by me
or under my direct supervision and that I am
NOTET Certified at Level IV in Water-Based
Sprinkler System Layout.

Darin T. Syverson

Reg. No. 125413 1/27/2025

GENERAL NOTES

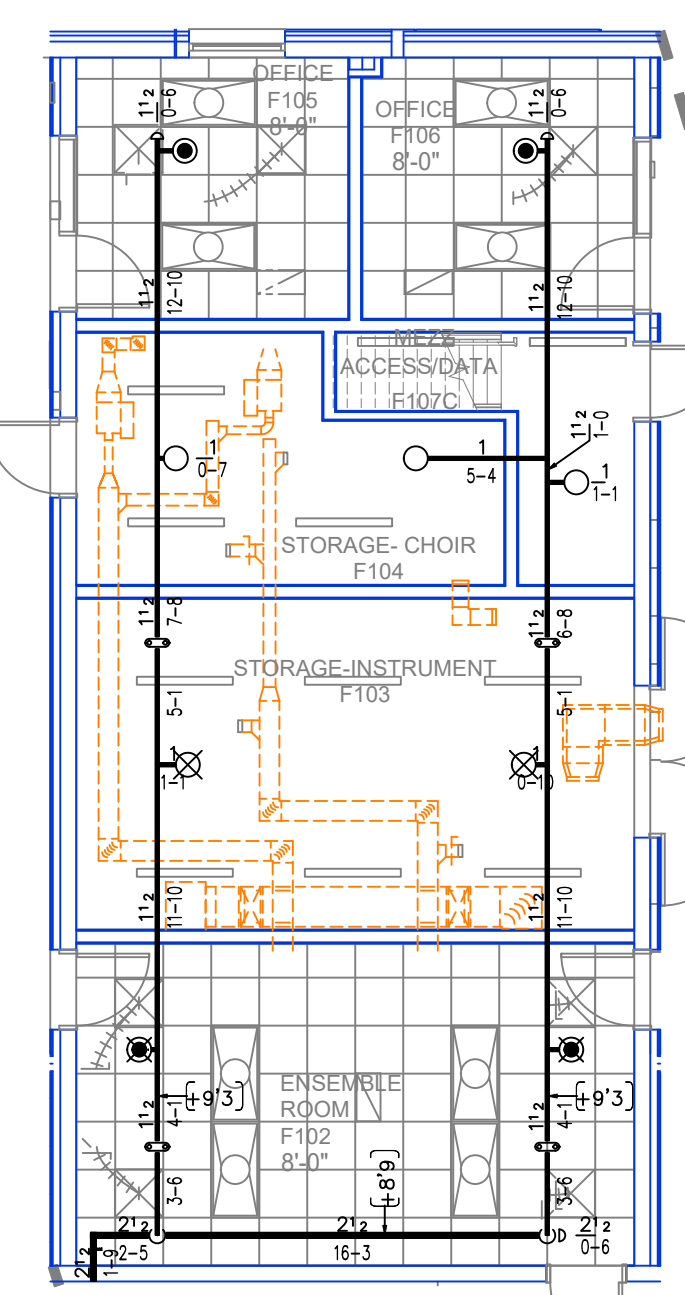
- SYSTEM INSTALLED PER NFPA-13 (2016 EDITION) AND STATE FIRE MARSHAL
- ALL EQUIPMENT FOR THIS SYSTEM SHALL BE U.L. LISTED
- MINIMUM PIPE SIZE SHALL BE 1" NOMINAL PIPE
- ALL SCH-80 & LIGHTWALL PIPING HAS WELDED OUTLETS & GROOVED SHORT RADIUS FITTINGS
- ALL WELDING PER NFPA-504 (2016 EDITION)
- NO INSTALLATION 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/8 HEADS & 1 HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED
- ELECTRICAL WIRING, ALARM DETECTION AND SUPERVISORY BY OWNER
- OWNERS RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING



FIRE PROTECTION PLAN

GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

Contract No.
C24.41
Drawing Date: 10/18/24
Scale: 1/8" = 1'-0"
Drawn By: AMM
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. **FP 4 of 7**



AREA F MEZZANINE

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

CALC PLACARD

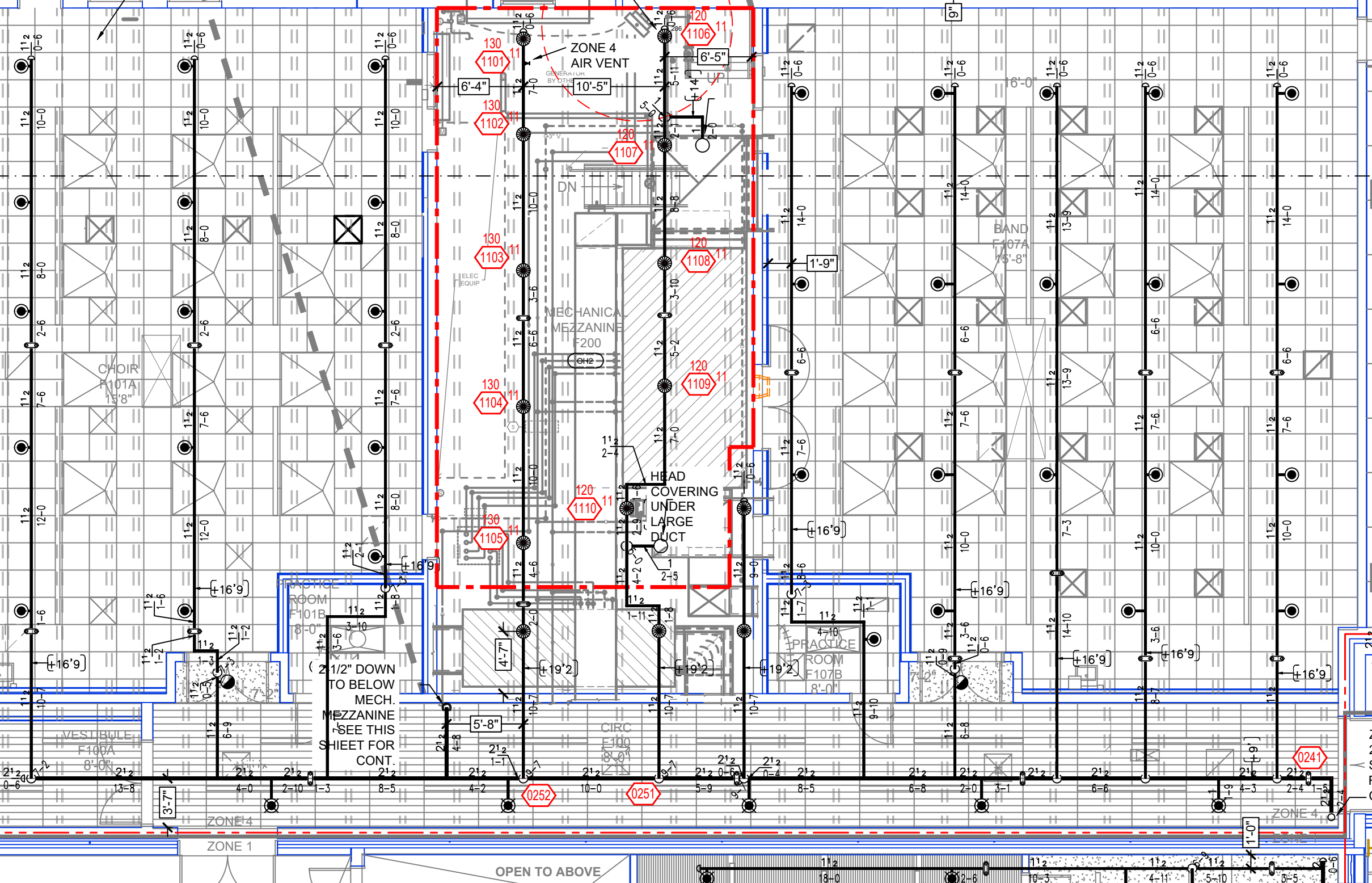
Design Area #: 11 HAZARD: OH-2
Zone: 4 System Type: WET
Location: MECH MEZZ F200

Flowing Outlets: 10
Density: 0.20 Remote Area: 1500
Req'd @ Base of Riser
Flow 264.2 gpm @ 84.4 psi
Req'd @ Source
Flow 514.2 gpm @ 14.2 psi
Calculation Safety: 15.6 psi
Includes 250 gpm Hose allowance

STORM SHELTER IS 36" DEEP PRECAST
DOUBLE TEES AND 8" PRECAST PLANK W/
4" STRUCTURAL TOPPING

HIGH TEMP HEAD
REQUIRED NEAR
UNIT HEATER

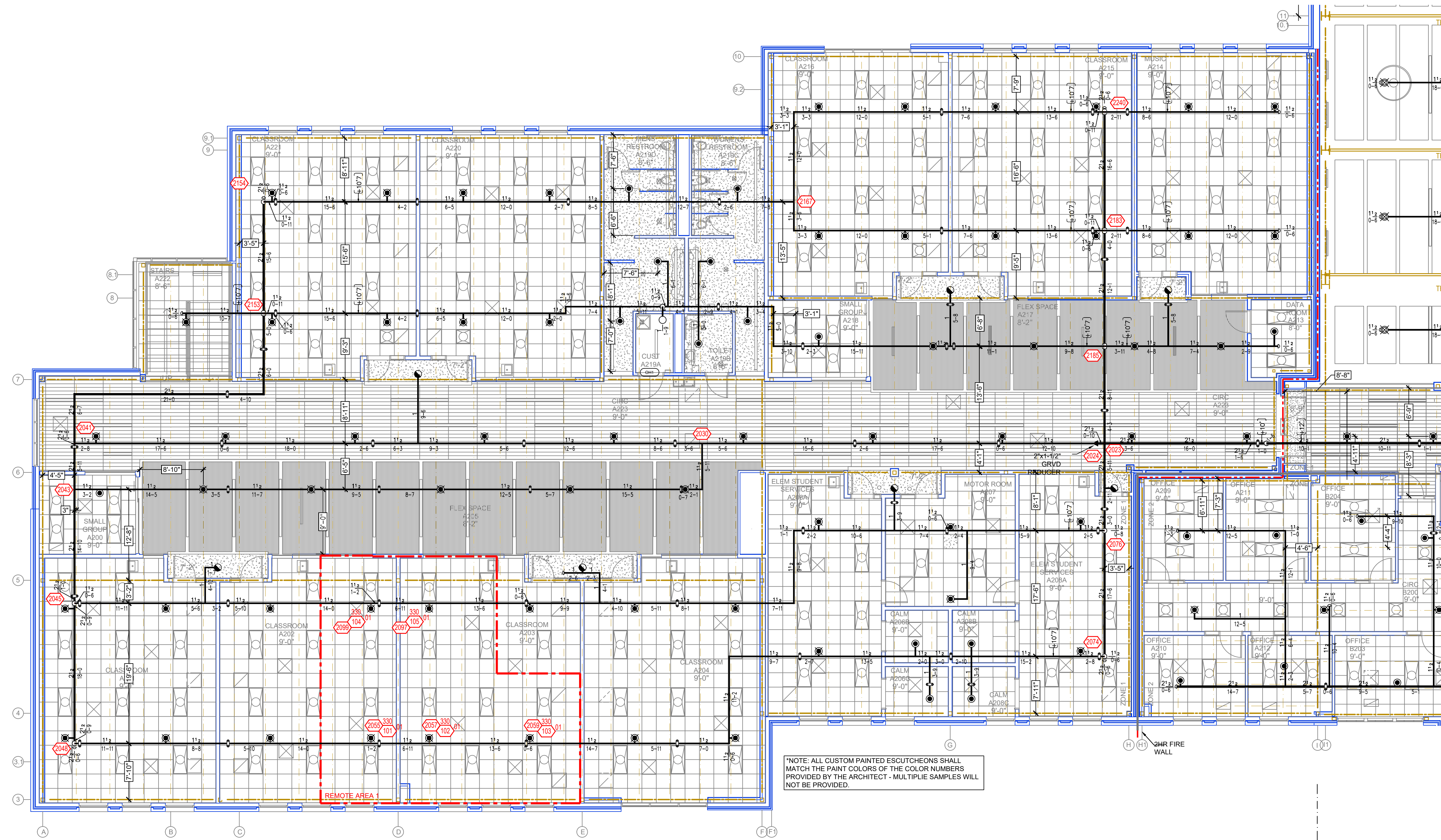
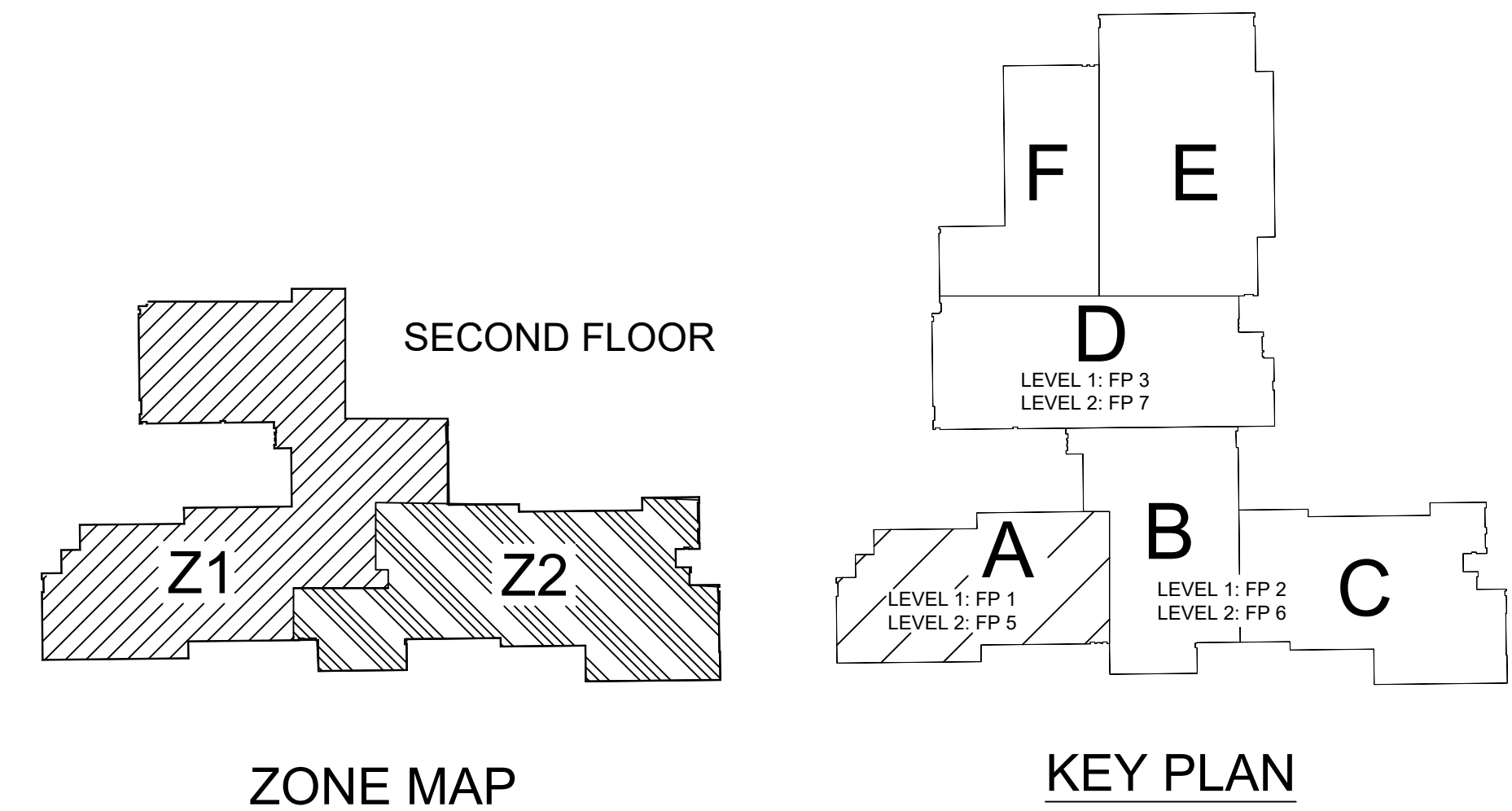
REMOTE AREA 11



LEVEL 1 - E & F FIRE SPRINKLER PLAN

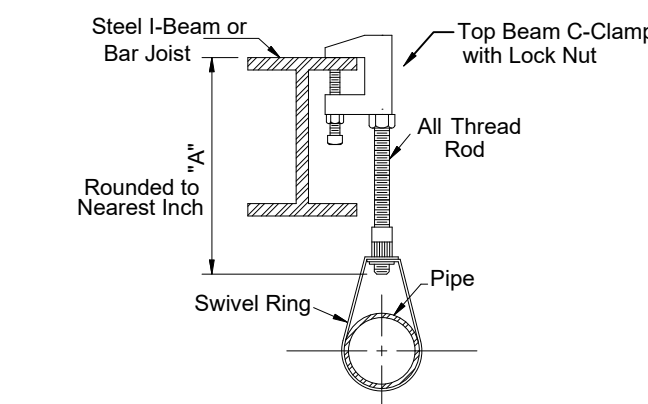
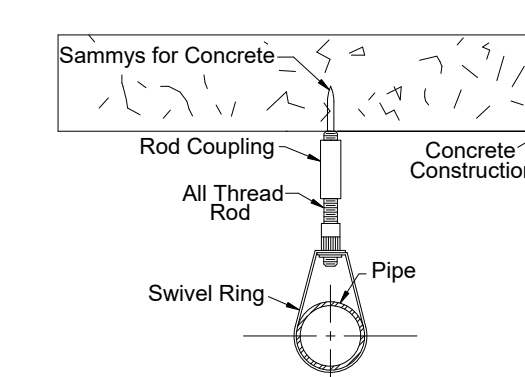
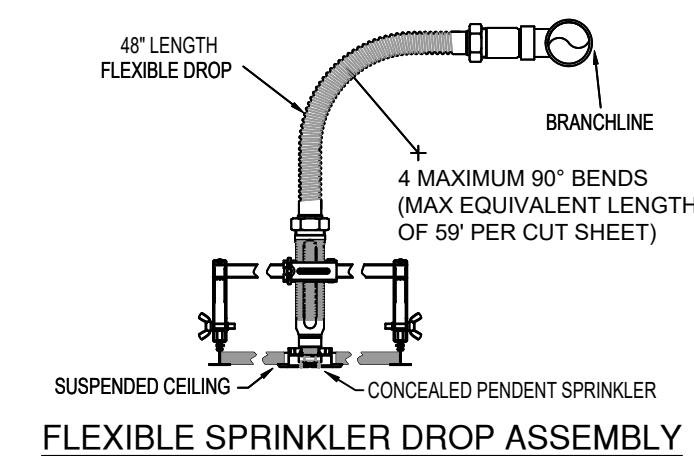
SCALE= 1/8" : 1'-0"

NO	REVISIONS	DATE
1	CHANGED PENETRATION LOCATIONS FOR ZONE 4 MAINS	1/27/25
2	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	



NFPA 13 STEEL PIPE HANGER SPACING

NOMINAL SIZE	MAX SPACING
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"



HANGER DETAILS

LEVEL 2-A FIRE SPRINKLER PLAN

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

Design Area #: 01 HAZARD: LIGHT
Zone: 1 System Type: WET
Location: CLASSROOM A202/A203

Flowing Outlets: 5
Density: 0.10 Remote Area: 900
Req'd @ Base of Riser
Flow 168.2 gpm @ 62.8 psi
Req'd @ Source
Flow 268.2 gpm @ -15.7 psi
Calculation Safety: 58.9 psi
Includes 100 gpm Hose allowance

NOTE: 40% AREA REDUCTION OF
REMOTE AREA TO 900SF PER
11.2.3.2.3.1

SYM	QTY	POSITION	FINISH	TEMP	K	NPT	SIN	MFG	MODEL#	ESCUICHEON	MAX SPACING U.O.
342	PENDENT	WHITE	165	11.20	3/4"	R7146	RELIABLE	G4-XLO	CONCEALED		18 X 18
223	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	
228	PENDENT	WHITE	200	5.60	1/2"	V5606	VICTAULIC	FL-QRC	CONCEALED		225 S.F.
28	UPRIGHT	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A		18 X 18
55	PENDENT	PAINTED*	200	5.6	1/2	V5606	VICTAULIC	FL-QRC	CONCEALED		130 S.F. (CH) / 225 S.F. (LH)
51	PENDENT	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	
23	UPR ON 1" SPRIG	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	STANDARD	130 S.F. (CH) / 225 S.F. (LH)	
1	PENDENT	CHROME	200	5.60	1"	V3614	VICTAULIC	FL-QRDYR	N/A	130 S.F. (CH) / 225 S.F. (LH)	
14	UPR ON 1" SPRIG	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A		18 X 18
67	UPRIGHT	BRASS	286	8.00	3/4"	V3401	VICTAULIC	FL-BR	N/A		130 S.F.
14	SIDEWALL	BRASS	286	5.60	1/2"	V2709	VICTAULIC	FL-BRSW	N/A		10 X 10
13	SIDEWALL	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-BRSW	N/A		14 X 14
2	PENDENT	WHITE	286	5.60	1/2"	V5606	VICTAULIC	FL-QRC	CONCEALED		225 S.F.
15	PENDENT	PAINTED	165	11.20	3/4"	R7146	RELIABLE	G4-XLO	CONCEALED		18 X 18
1	PENDENT	BRASS	286	5.6	1/2"	V2708	VICTAULIC	FL-QR	N/A	130 S.F. (CH) / 225 S.F. (LH)	
2	PENDENT	BRASS	200	8.00	3/4"	V3406	VICTAULIC	FL-QR	N/A	90 S.F. (EH)	
13	SIDEWALL	BRASS	200	8.00	1"	V3612	VICTAULIC	FL-QRDYR/SW	N/A		12 X 12
1,084	TOTAL										

SPRINKLER HEAD LEGEND

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 ON SPARE HEAD CABINET W/8 HEADS & 1 HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND F.M. APPROVED
- ELECTRICAL WIRING, ALARM, DETECTION AND SUPERVISORY BY OWNER
- OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEATING TO PREVENT WET SYSTEM PIPING FROM FREEZING.

REVISIONS

NO	REVISIONS	DATE
1	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	1/27/25

APPROVAL STAMPS

I certify that this plan was prepared by me or under my direct supervision and that I am NICET Certified at Level IV in Water-Based Sprinkler System Layout.

Darin T. Syverson
Reg. No. 125413 1/27/2025

Drawing Title: FIRE PROTECTION PLAN

GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

Contract No. C24.41

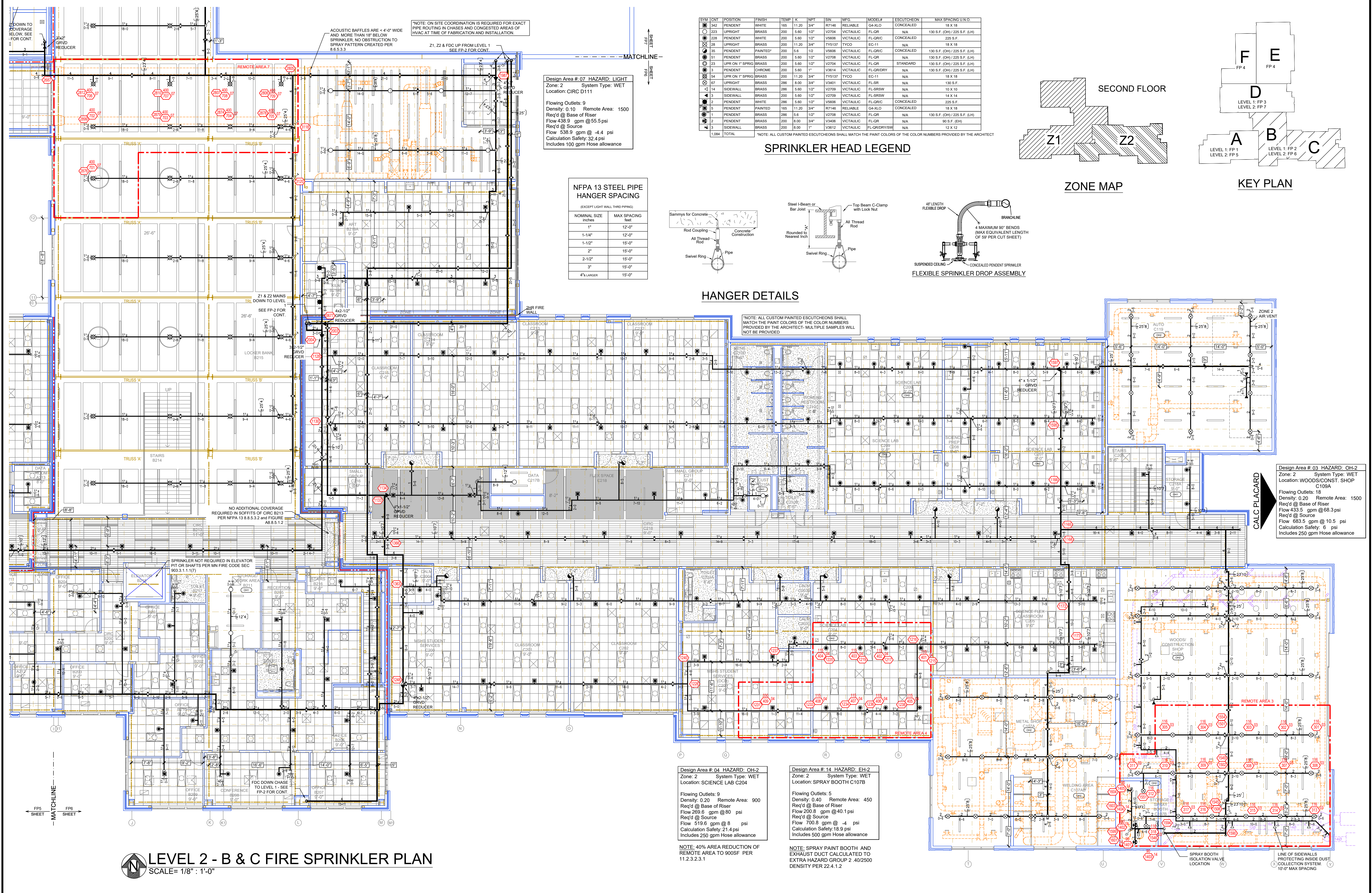
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Scale: 1/8" = 1'-0"

Drawn By: AMM

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 5 of 7



LEVEL 2 - B & C FIRE SPRINKLER PLAN
SCALE = 1/8" = 1'-0"

- GENERAL NOTES
1. SYSTEM INSTALLED PER NFPA-13 (2016 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-54(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 WITH HEADS & HEAD WRENCH
 11. HANGERS ARE TO BE U.L. LISTED AND "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
1	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	1/27/25	

I certify that this plan was prepared by me or under my direct supervision and that I am NICET Certified at Level IV in Water-Based Sprinkler System Layout.

Darin T. Syverson
Reg. No. 125413 1/27/2025

Contract No. **C24.41**
Drawing Date: 10/18/24
Scale: 1/8" = 1'-0"
Drawing By: AMM
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. **FP 6 of 7**

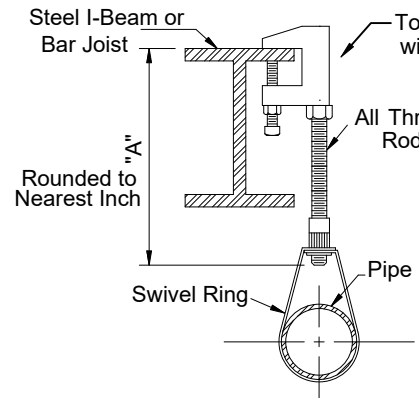
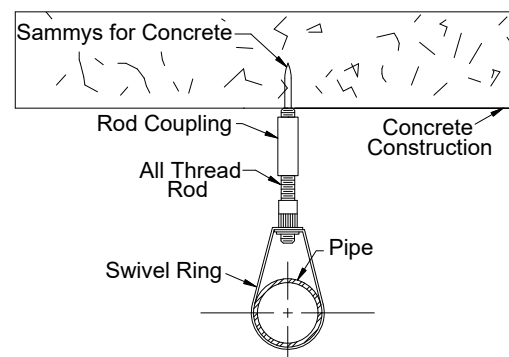
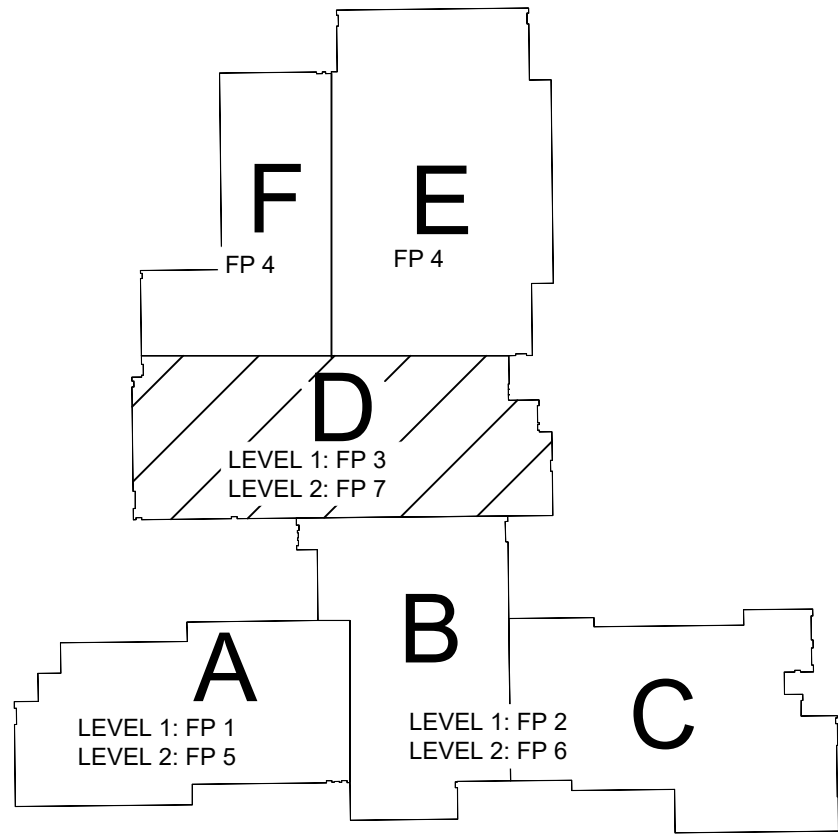
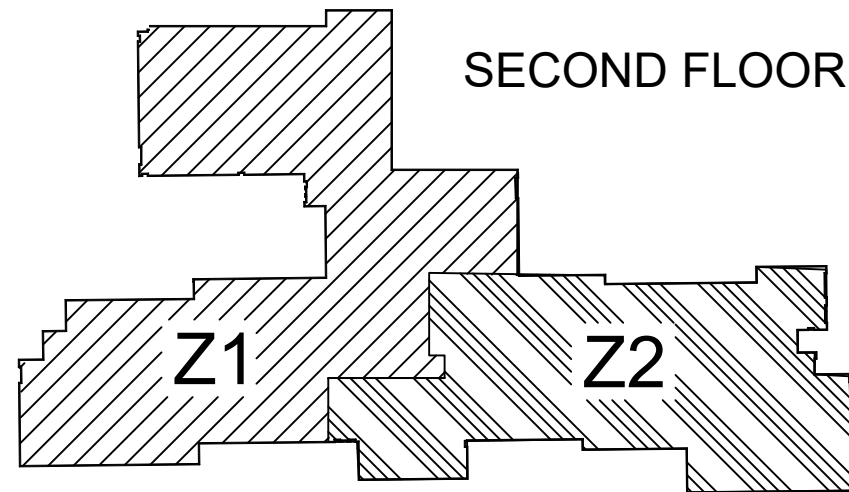
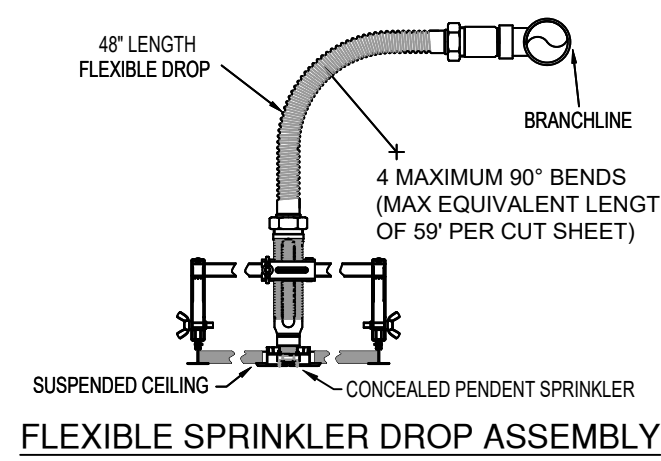
GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

SYM	QTY	POSITION	FINISH	TEMP	K	NPY	SIN	MFG.	MODEL#	ESCUTCHEON	MAX SPACING U.N.O.
342	PENDENT	WHITE	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED		18 X 18
223	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	N/A		130 S.F. (OH) / 225 S.F. (LH)
228	PENDENT	WHITE	200	5.60	1/2"	V5606	VICTAULIC	FL-QRVC	CONCEALED		225 S.F.
28	UPRIGHT	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A		18 X 18
35	PENDENT	PAINTED*	200	5.6	1/2"	V5606	VICTAULIC	FL-QRVC	CONCEALED		130 S.F. (OH) / 225 S.F. (LH)
51	PENDENT	BRASS	200	5.60	1/2"	V2708	VICTAULIC	FL-QR	N/A		130 S.F. (OH) / 225 S.F. (LH)
23	UPR ON 1" SPRIG	BRASS	200	5.60	1/2"	V2704	VICTAULIC	FL-QR	STANDARD		130 S.F. (OH) / 225 S.F. (LH)
3	PENDENT	CHROME	200	5.60	1"	V3614	VICTAULIC	FL-QRDRY	N/A		130 S.F. (OH) / 225 S.F. (LH)
54	UPR ON 1" SPRIG	BRASS	200	11.20	3/4"	TY5137	TYCO	EC-11	N/A		18 X 18
67	UPRIGHT	BRASS	286	8.00	3/4"	V3401	VICTAULIC	FL-SR	N/A		130 S.F.
14	SIDEWALL	BRASS	286	5.60	1/2"	V2709	VICTAULIC	FL-SRSW	N/A		10 X 10
3	SIDEWALL	BRASS	200	5.60	1/2"	V2709	VICTAULIC	FL-SRSW	N/A		14 X 14
2	PENDENT	WHITE	286	5.60	1/2"	V5606	VICTAULIC	FL-QRVC	CONCEALED		225 S.F.
5	PENDENT	PAINTED	165	11.20	3/4"	R7146	RELIABLE	GA-XLO	CONCEALED		18 X 18
1	PENDENT	BRASS	286	5.6	1/2"	V2708	VICTAULIC	FL-QR	N/A		130 S.F. (OH) / 225 S.F. (LH)
2	PENDENT	BRASS	200	8.00	3/4"	V3406	VICTAULIC	FL-QR	N/A		80 S.F. (EH)
3	SIDEWALL	BRASS	200	8.00	1"	V3612	VICTAULIC	FL-QRDRY/SW	N/A		12 X 12
1,084	TOTAL										

*NOTE: ALL CUSTOM PAINTED ESCUTCHEONS SHALL MATCH THE PAINT COLORS OF THE COLOR NUMBERS PROVIDED BY THE ARCHITECT.

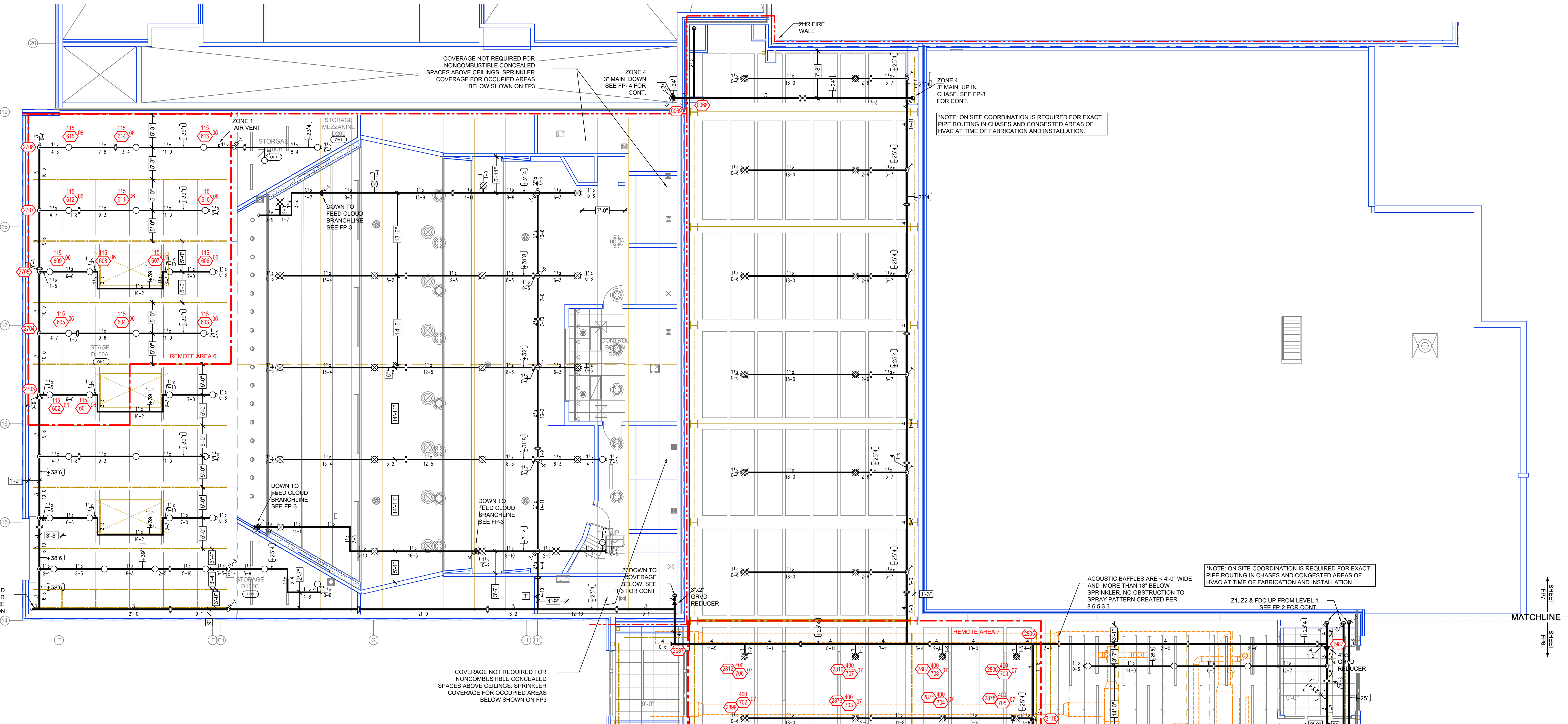
SPRINKLER HEAD LEGEND

NFPA 13 STEEL PIPE HANGER SPACING	
(EXCEPT LIGHT WALL THRO 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"

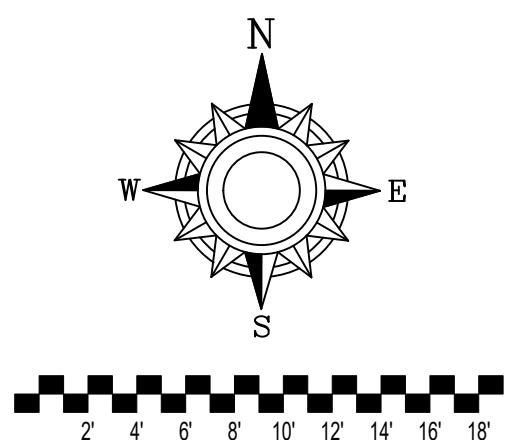


HANGER DETAILS

Design Area #: 06 HAZARD: OH-2
Zone: 1 System Type: WET
Location: STAGE D100A
Flowing Outlets: 15
Density: 0.20 Remote Area: 1500
Req'd @ Base of Riser
Flow 410.4 gpm @ 72.8 psi
Req'd @ Source
Flow 659.6 gpm @ 11.5 psi
Calculation Safety: 7 psi
Includes 250 gpm Hose allowance



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



GENERAL NOTES

1. SYSTEM INSTALLED PER NFPA-13 (2016 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-554.2
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 WITH 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
1	VARIOUS NOTES AND DETAILS ADDED OR AMENDED FOR REVISE AND RESUBMIT	1/27/25

APPROVAL STAMPS

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Darin T. Syverson
Reg. No. 125413 1/27/2025

Drawing Title: FIRE PROTECTION PLAN

GIBBON SCHOOL
1157 EAST 13TH STREET
GIBBON, MN 55335

Contract No.

C24.41

Drawing Date: 10/18/24

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

Drawn By: AMM

Approval By: STATE FIRE MARSHAL DIV.

SHEET NO. FP 7 of 7