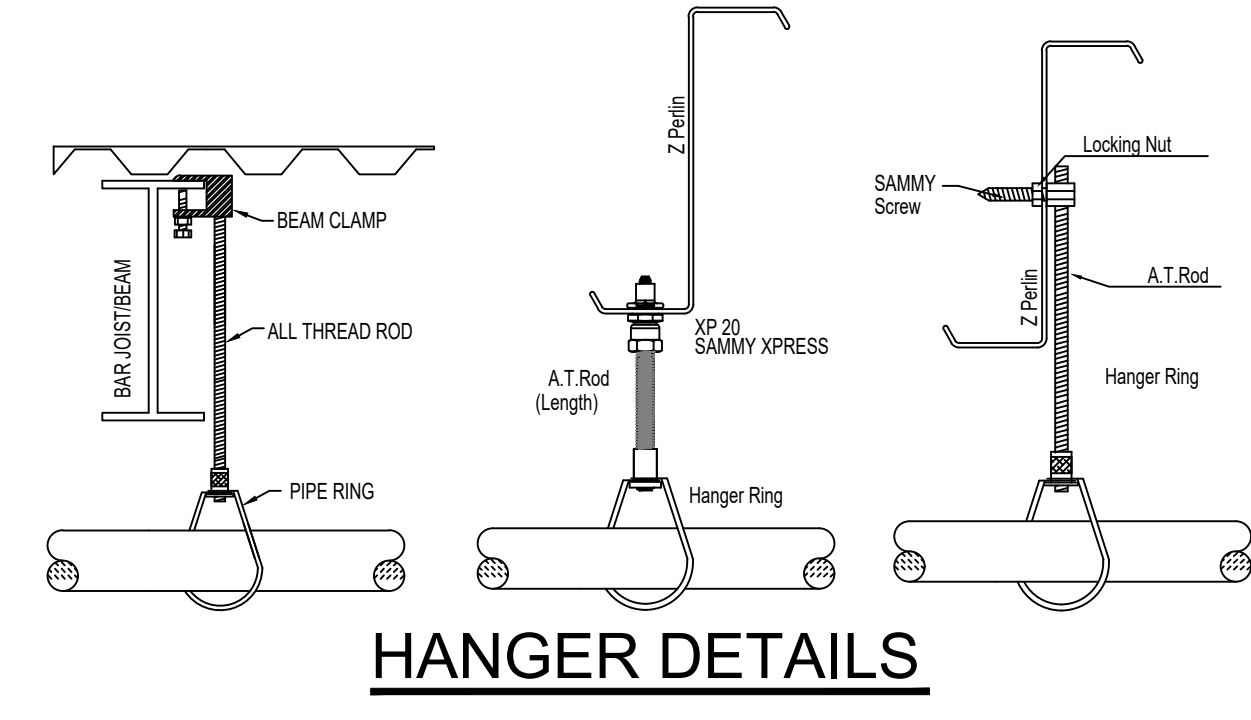


NFPA 13 STEEL PIPE HANGER SPACING
(EXCEPT LIGHT WALL THIRD PIPING)

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"



- GENERAL NOTES**
- MINNESOTA BUILDING CODE (2020)
 - OCCUPANCY: A-3, B, S-1
 - TYPE OF CONSTRUCTION: I-B
- INSTALLATION STANDARDS:**
- SPRINKLER SYSTEM DESIGNED AND INSTALLED PER NFPA-13 (2016)
 - SPRINKLERED AREAS: MAIN LEVEL = 13,766 S.F.
- SPRINKLER PIPE TYPES:**
- 1" BRANCH LINES TO BE BLK SCHEDULE 40 PIPING WITH THREADED FITTINGS
 - 1-1/2" AND LARGER PIPE TO BE BLK SCHEDULE 10 PIPING WITH GROOVED FITTINGS
- DESIGN CRITERIA**
- HALLWAY, LOBBY, AND MULTI-PURPOSE WORSHIP AREAS DESIGNED TO LIGHT HAZARD
 - MECH ROOMS, KITCHEN, AND PANTRY AREAS DESIGNED TO ORDINARY HAZARD GROUP 1
- NOTES:**
- ALL MATERIAL TO BE NEW AND MEET U.L. STANDARDS
 - HANGERS TO BE INSTALLED IN ACCORDANCE WITH NFPA-13 (2016)- SEE PLAN FOR HANGING REQUIREMENTS
- SYMBOLS USED ON DRAWINGS:**
- (ELEVATION) PIPE ELEVATION A.F.F.
 - (-ELEVATION) PIPE ELEVATION BELOW B.O.D.
 - (RHS) ROOM HAZARD CLASSIFICATION (ALL ROOMS ARE CONSIDERED LIGHT HAZARD UNLESS NOTED)
 - (HT) HYDRAULIC CALCULATION JUNCTION POINT
 - (0'-0") CEILING HEIGHT

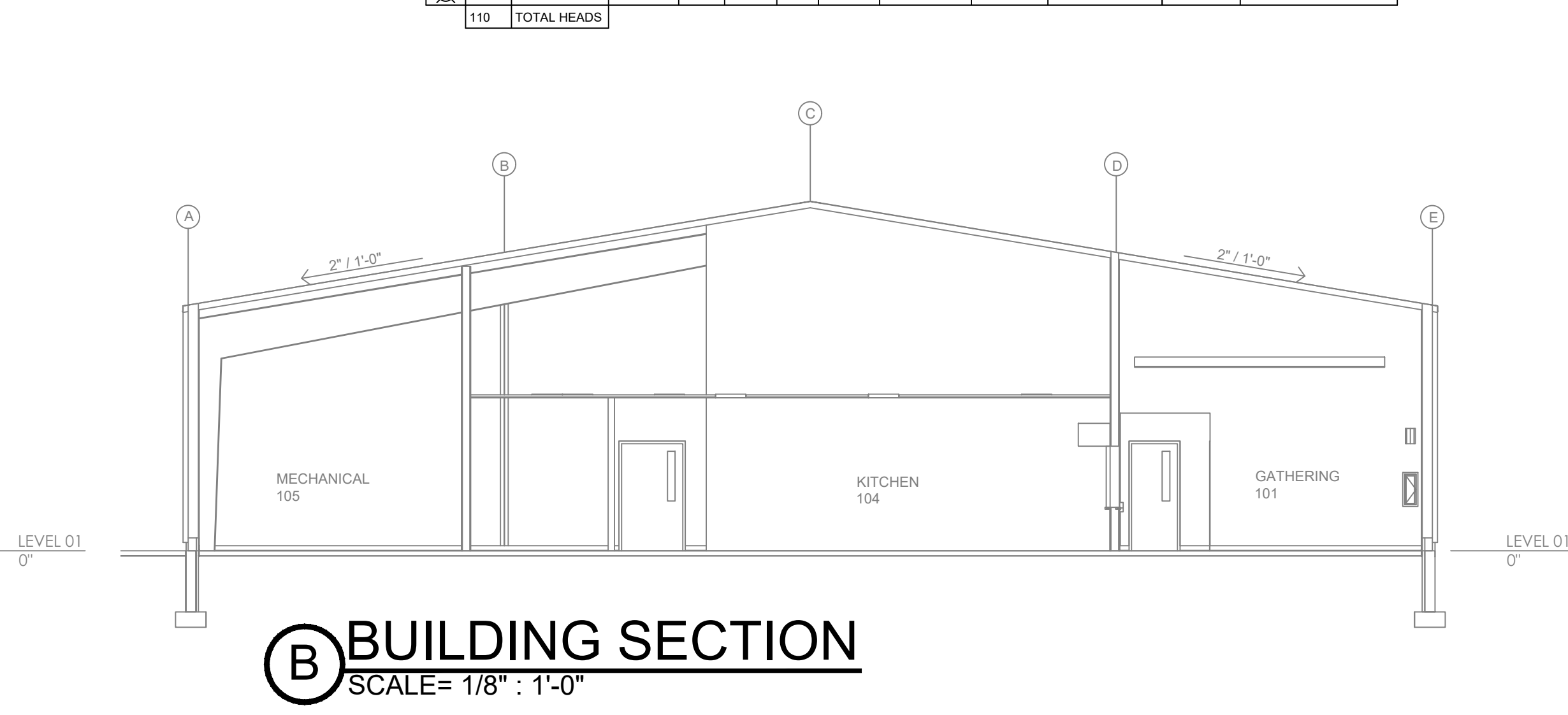
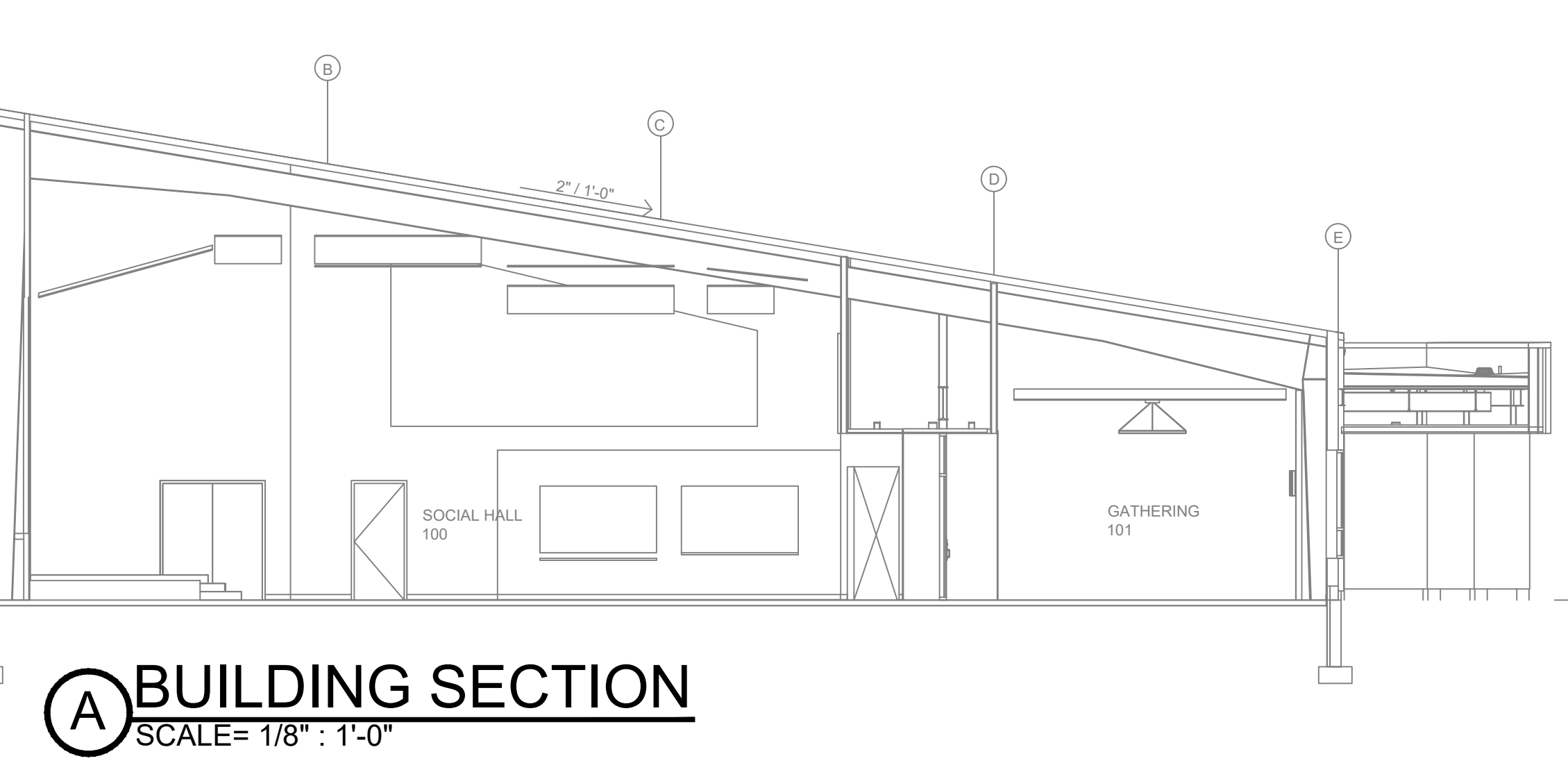
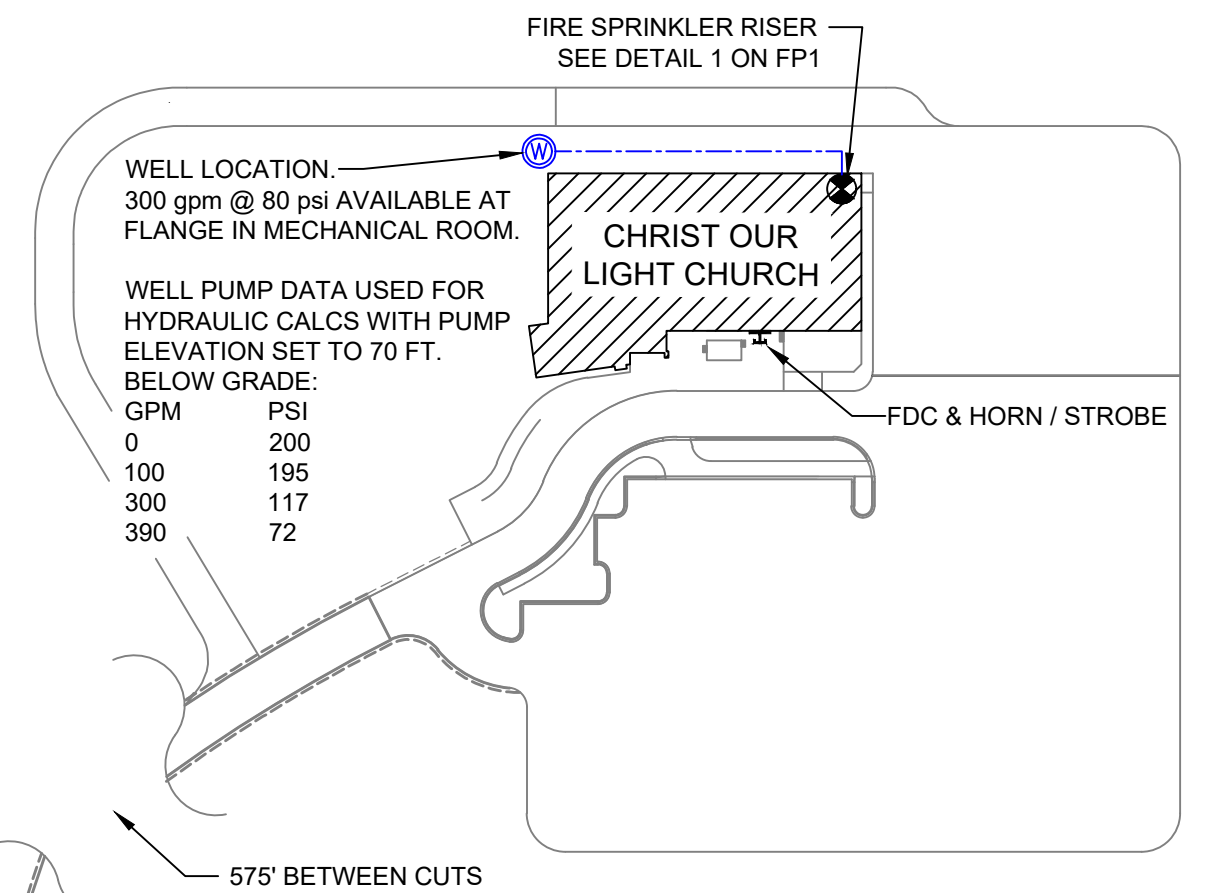
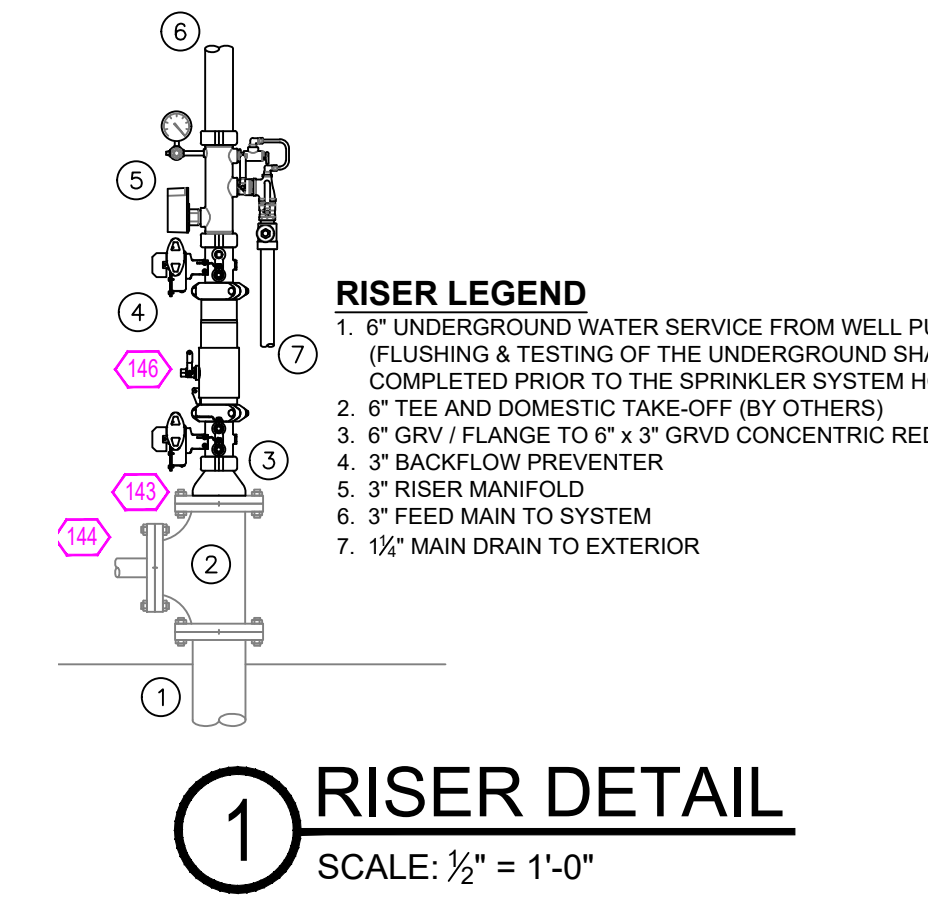
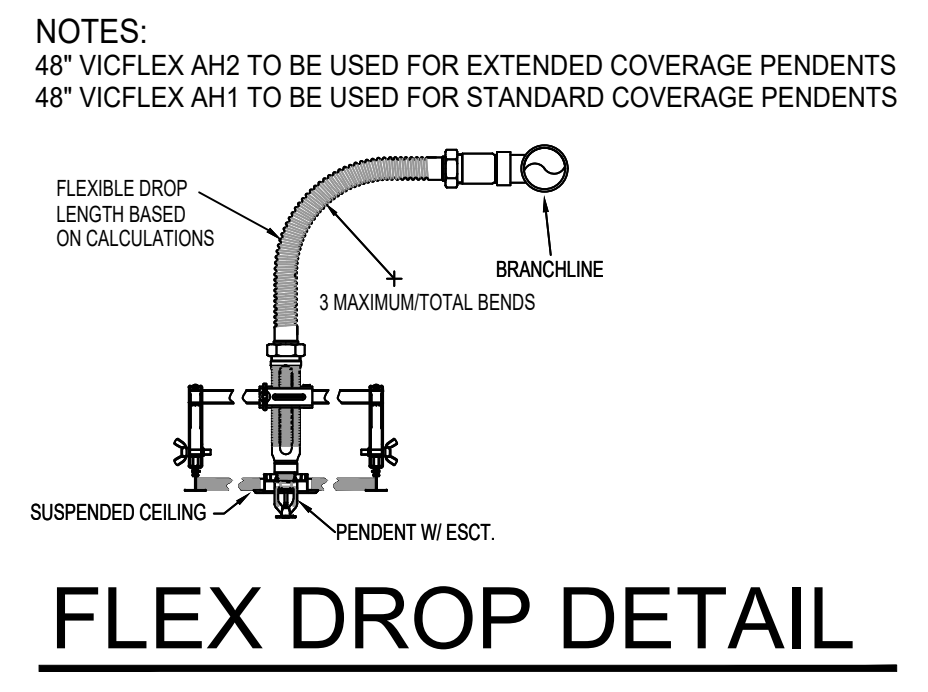
HAZYRICAL CALCULATION RESULTS

Design Area #	HAZARD	System Type	Location	Flowing Outlets	Remote Area	Density	Req'd @ Base of Riser	Flow	Calculation Safety	Includes
1	HAZARD: LH	WET	SOCIAL HALL 100	5	1772	0.10	45.6	294.3 gpm @ 45.6 psi	44.7	69 gpm domestic demand
2	HAZARD: LH	WET	CHapel 112	6	1020	0.10	41.3	271.1 gpm @ 41.3 psi	61.3	69 gpm domestic demand
3	HAZARD: LH	WET	Work Room 122	6	1514	0.10	46.3	307.7 gpm @ 46.3 psi	37.3	69 gpm domestic demand
4	HAZARD: LH	WET	Classroom 121	7	962	0.10	60.6	294.1 gpm @ 60.6 psi	58.3	69 gpm domestic demand
5	HAZARD: OH1	WET	Kitchen/Mechanical	15	1105	0.15	30.7	296.6 gpm @ 30.7 psi	29.8	69 gpm domestic demand

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

SPRINKLER HEAD LEGEND

SYM	CNT	POSITION	FINISH	TEMP	K	INP	SN	MPG	MODEL#	ESCU/CHCON	HEAD BOX	MAX SPACING
9	PENDENT	CHROME	200	11.20	3/4"	V3412	VICTALIC	FL-QLH	SEM-RECESSED	2	18x18"	
39	PENDENT	CHROME	200	5.60	1/2"	V2708	VICTALIC	FL-QR	SEM-RECESSED	2	225 s.f.A, 130 s.f. OH1	
10	PENDENT	WHITE	200	5.60	1/2"	V0802	VICTALIC	FL-QRC	CONCEALED	2	225 s.f.A, 130 s.f. OH1	
26	PENDENT	WHITE	165	11.20	3/4"	R2146	RELIABLE	G4-XLO	CONCEALED	2	18x18"	
7	UPRIGHT	BRASS	200	5.60	1/2"	V2704	VICTALIC	FL-QR	N/A	2	130 s.f. OH1	
1	SPRIG	BRASS	200	5.60	1/2"	V2704	VICTALIC	FL-QR	N/A	2	130 s.f. OH1	
17	UPRIGHT	BRASS	175	11.20	3/4"	TY9137	TYCO	EC-11	N/A	2	20'x20'	
1	UPRIGHT	BRASS	175	11.20	3/4"	TY9137	TYCO	EC-11	N/A	2	20'x20'	
110	TOTAL HEADS											



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-10 & 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 WITH HEADS & HEAD WRENCH
- HANGERS ARE TO BE U.L. LISTED AND I.M. 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
1			

Drawing Title: **FIRE PROTECTION PLAN**

CHRIST OUR LIGHT CHURCH

11604 293RD AVENUE NW
PRINCETON, MN 55371

Contract No. **C24-61**
Drawing Date: 11/7/2024
Scale: 1/8" = 1'-0"
Drawn By: DS
Approval By: STATE FIRE MARSHAL DIV.
SHEET NO. **FP 1 of 1**