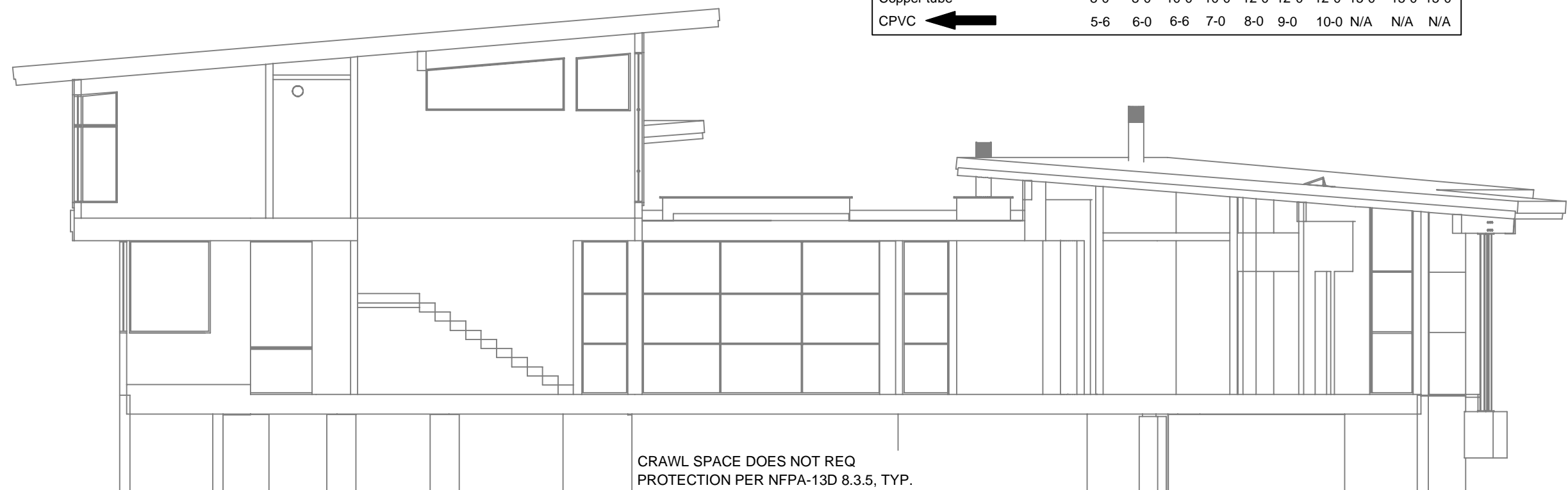


MAIN LEVEL FIRE SPRINKLER PLAN  
SCALE: 1/8" = 1'-0"



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

SUBMITTAL

NO SPRINKLERS REQUIRED IN:  
BATHROOMS 55 SQ. FT. OR LESS IN AREA  
PER NFPA 13D SECTION 8.6.2  
CLOSETS 24 SQ. FT. OR LESS IN AREA  
PER NFPA 13D SECTION 8.6.3

PROJECT SQUARE FOOTAGES

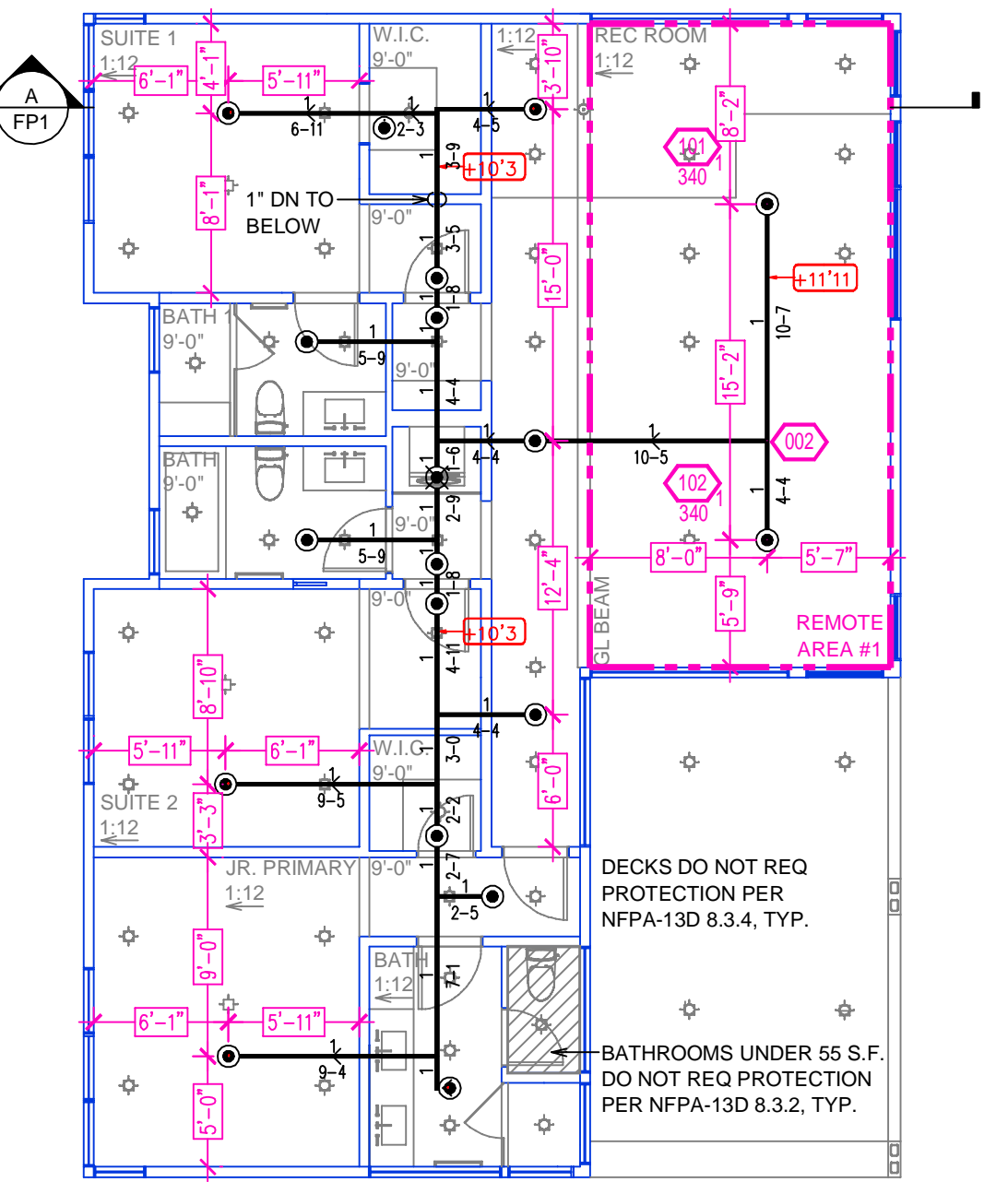
MAIN LEVEL = 4062 SF  
UPPER LEVEL = 1461 SF

SPRINKLER SPACING  
1. A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 18'x18' (324 SQ. FT.) OR UP TO 9' OFF A WALL (MINIMUM 8'-0" BETWEEN SPRINKLERS)  
2. TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 18'x18' (324 SQ. FT.) OR UP TO 9' OFF A WALL (MINIMUM 8'-0" BETWEEN SPRINKLERS)  
3. SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILINGS.

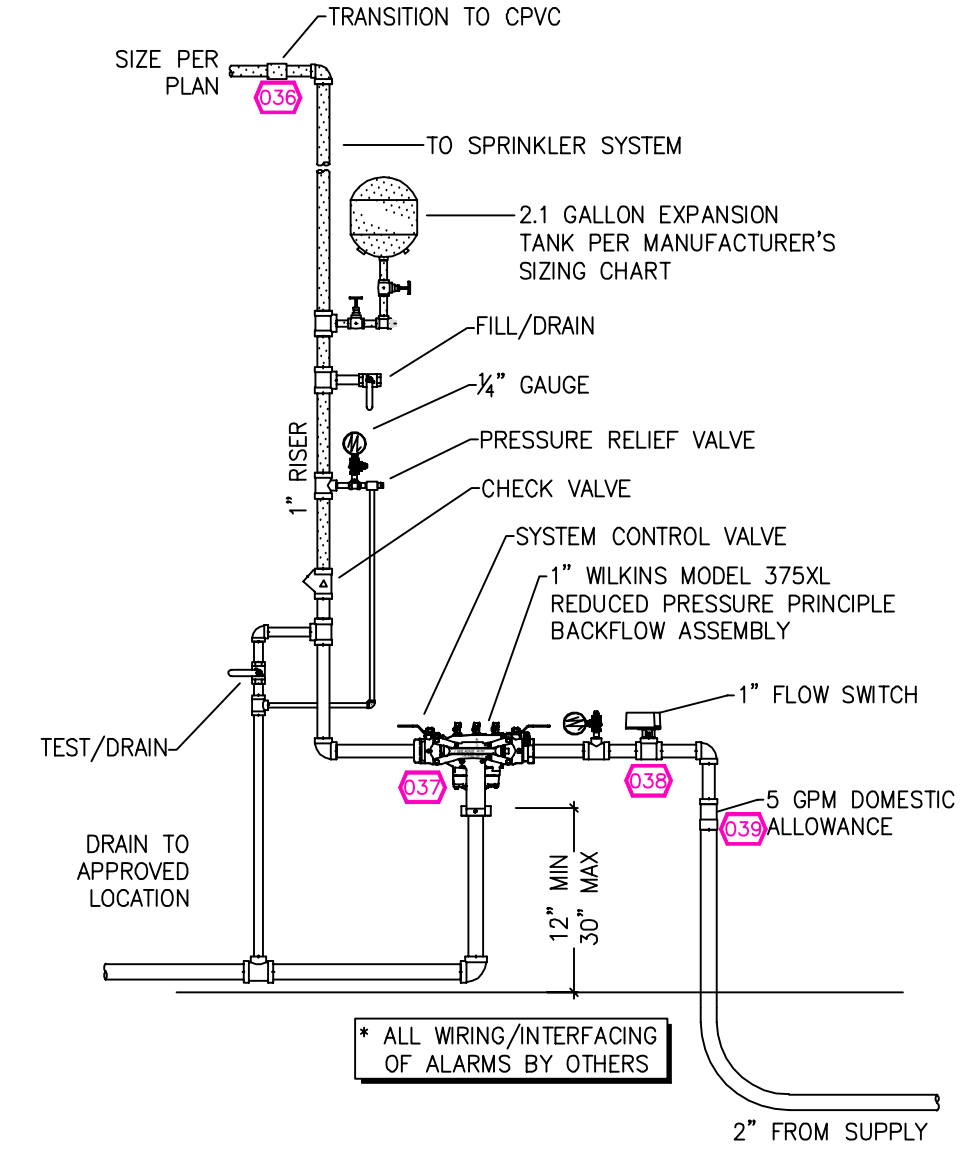
THIS FIRE SPRINKLER SYSTEM UTILIZES THE NOBLE COMPANY FIREFIGHTER ELIMINATOR ANTI-FREEZE SOLUTION

NFPA 13 - Table 9.2.2.1(a) Maximum Distance Between Hangers (ft-in.)												
	Nominal Pipe Size (in.)											
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	6	8		
Steel Pipe except threaded lightwall	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0		
Threaded lightwall steel pipe	N/A	12-0	12-0	15-0	15-0	15-0	15-0	N/A	N/A	N/A		
Copper tube	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0		
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A		

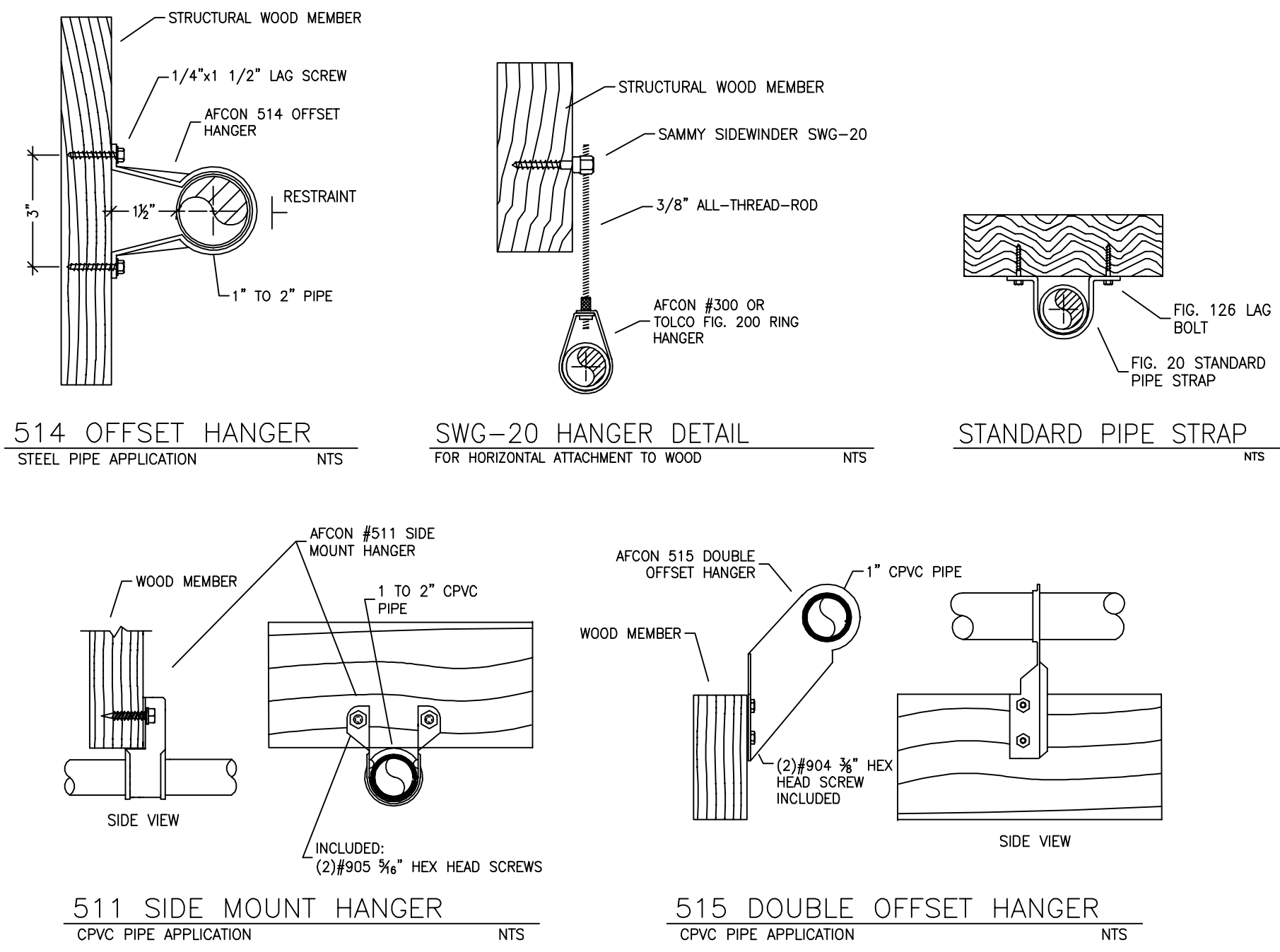
REMOTE AREA 1	REMOTE AREA 2
<b>Hydraulically Calculated System</b> This system as shown on Fire Protection Plan company print no. <u>FP1</u> dated <u>3/21/2025</u> for <u>MILLER RESIDENCE</u> at <u>REC ROOM</u> contract no. _____ is designed to discharge at a rate of <u>0.05</u> gpm (L/min) per sq ft (m <sup>2</sup> ) of floor area over a maximum area of <u>NFPA 13D - 2 SPRINKLERS</u> sq ft (m <sup>2</sup> ) when supplied with water at the rate of <u>39.2</u> gpm (L/min) at <u>72.0</u> psi (bars) at the base of the riser. Hose stream allowance of <u>5</u> gpm (L/min) is included in the above. Occupancy classification <u>1B LIGHT HAZARD</u> Commodity classification <u>N/A</u> Maximum storage height <u>N/A</u> Safety factor <u>18.0</u>	<b>Hydraulically Calculated System</b> This system as shown on Fire Protection Plan company print no. <u>FP1</u> dated <u>3/21/2025</u> for <u>MILLER RESIDENCE</u> at <u>PRIMARY BATHROOM</u> contract no. _____ is designed to discharge at a rate of <u>0.05</u> gpm (L/min) per sq ft (m <sup>2</sup> ) of floor area over a maximum area of <u>NFPA 13D - 2 SPRINKLERS</u> sq ft (m <sup>2</sup> ) when supplied with water at the rate of <u>39.3</u> gpm (L/min) at <u>80.6</u> psi (bars) at the base of the riser. Hose stream allowance of <u>5</u> gpm (L/min) is included in the above. Occupancy classification <u>1B LIGHT HAZARD</u> Commodity classification <u>N/A</u> Maximum storage height <u>N/A</u> Safety factor <u>8.4</u>



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



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



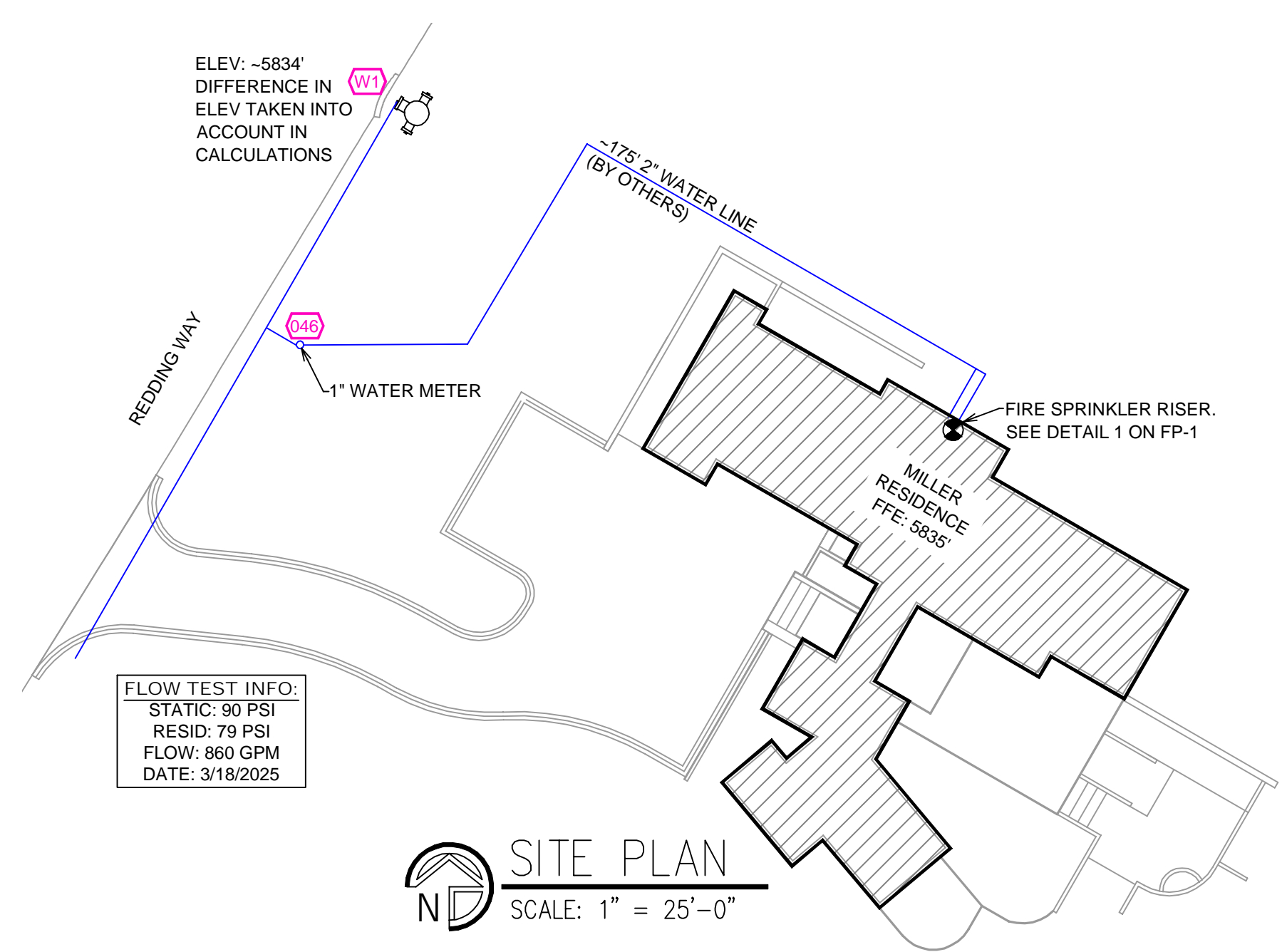
HANGER DETAILS

SPRINKLER HEAT ZONES:		
HEAT SOURCE:	ORDINARY TEMP SPRINKLER	INTERMEDIATE TEMP SPRINKLER
SIDE OF OPEN OR RECESSED FIRE PLACE	36"	12"
FRONT OF RECESSED FIRE PLACE	60"	36"
COAL OR WOOD BURNING STOVE	42"	12"
RANGE/OVEN, HOT AIR FLUES & UNINSULATED HEAT DUCT	18"	9"
UNINSULATED HOT WATER PIPES & 250-499 WATT LIGHTS	12"	6"
SIDE OF CEILING OR WALL MOUNTED	24"	12"
HOT AIR DIFFUSERS		
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER, FURNACE, LIGHT FIXTURE	6"	3"

PIPE VOLUMES:  
(CPVC)  
TOTAL PIPE FOOTAGE AND CAPACITY:  
1" = 506' (25.02 GAL)  
ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES  
TOTAL VOLUME: ± 27.53 GALLONS

NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)						
Nominal Pipe Diameter (in.)	Pipe Schedule 40 Schedule 10	Pipe Schedule 40 Schedule 10	CPVC			
1	0.045	0.049	0.049			
1 1/4	0.078	0.085	0.079			
1 1/2	0.106	0.115	0.104			
2	0.174	0.190				
2 1/2	0.248	0.283				

PROJECT SUMMARY:  
PROJECT NAME: **MILLER RESIDENCE**  
PROJECT ADDRESS: **135 REDDING WAY, CLEAR CREEK LOT 149**  
APN: **1419-04-002-111**  
PROJECT TYPE: ☒ NEW ☐ T.I.  
TYPE OF CONSTRUCTION: V  
OCCUPANCY GROUP(S): R3  
OCCUPIED LEVELS: 2  
TOTAL SPRINKLERED AREA: **5523** SQ. FT.  
NFPA CODE REQUIREMENT: ☐ NFPA 13 ☐ NFPA 13R ☒ NFPA 13D  
NUMBER OF SYSTEMS: 1  
SYSTEM TYPE(S): ☐ WET ☒ ANTI-FREEZE ☐ DRY ☐ PREACTION  
TOTAL SPRINKLERS: **50**  
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET



SITE PLAN  
SCALE: 1" = 25'-0"

NO.	DATE	REVISIONS	DRAWN	CHECKED					
GENERAL CONTRACTOR:		AUTHORITY HAVING JURISDICTION:							
ADDRESS:		EAST FORK FIRE PROTECTION DISTRICT							
CITY:		ADDRESS: 1694 COUNTY RD							
PHONE:		CITY: MINDEN, NV 89423							
CONTACT:		PHONE: 775-782-9040							
ARCHITECT:		CONTACT:							
ADDRESS:		FIELD INSPECTIONS:							
CITY:		1.							
PHONE:		2.							
		3.							
		4.							
FIRE SPRINKLER NOTES:									
1. THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13D 2019.									
2. THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13D TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.									
3. THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 2 SPRINKLERS.									
4. ALL SPRINKLER PIPING CONCEALED ABOVE CEILINGS SHALL BE CPVC PIPING UNLESS OTHERWISE NOTED.									
5. ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.									
6. ALL HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13D AND/OR NFPA 13 REQUIREMENTS.									
7. HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING.									
8. ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.									
9. THE OWNER SHALL BE RESPONSIBLE FOR MAINTAINING A MINIMUM TEMPERATURE OF 40° FAHRENHEIT TO PROTECT FROM FREEZING. THE SECTIONS OF THE SPRINKLER SYSTEM WHERE THERE IS NO ANTI-FREEZE IN THE PIPING (UPSTREAM OF THE RISER).									
SPRINKLER HEAD LEGEND									
SYM	QTY	TYPE	W.C.	MODEL#	NPT	K	TEMP	FINISH	S.N.
⊗	38	CONCEALED	SEN-J	RC-RES	1/2"	4.9	162	WHITE	SS4644
⊗	4	CONCEALED	SEN-J	RC-RES	1/2"	4.9	205	WHITE	SS4644
⊗	8	SEMI-RECESS	SEN-J	FR-RES	1/2"	4.9	205	WHITE	SS4451
50 TOTAL SPRINKLERS ON THIS SHEET									
FIRE SPRINKLER SYMBOLS									
⊗	AUTOMATIC SPRINKLER RISER		+13" ELEV. BELOW DECK OR TOS						
⊕	EARTHQUAKE BRACING		+12'-9" ELEV. ABOVE FINISHED FLOOR						
⊕	2-WAY & 4-WAY		→ CHANGE ELEVATION UP						
⊕	PIPE HANGER & TYPE DESIGNATION		↘ CHANGE ELEVATION DN						
⊕	HYDRAULIC REF PT		⊕ INSPECTORS TEST						
⊕	GRVD OR THRD CAP		⊕ AUX DRAIN						
⊕	GRVD COUPLING		⊕ REVISION NOTATION						
⊕	TYPICAL POINT OF CONNECTION (POC)		⊕ LOCAL ALARM						
SITE LOCATION:									
PROJECT NAME: FIRE SPRINKLER PLANS FOR									
<b>MILLER RESIDENCE</b>									
135 REDDING WAY CLEAR CREEK LOT 149 CARSON CITY, NV									
STAMP:									
DRAWING TITLE:									
<b>FIRE SPRINKLER PLAN</b>									
SCALE: 1/8" = 1'-0"					JOB NO.:				
DRAWN BY:					DWG NO.:				
BORN ON DATE: 3/21/2025					FP-1				
FILE:					SHEET 1 OF 1				