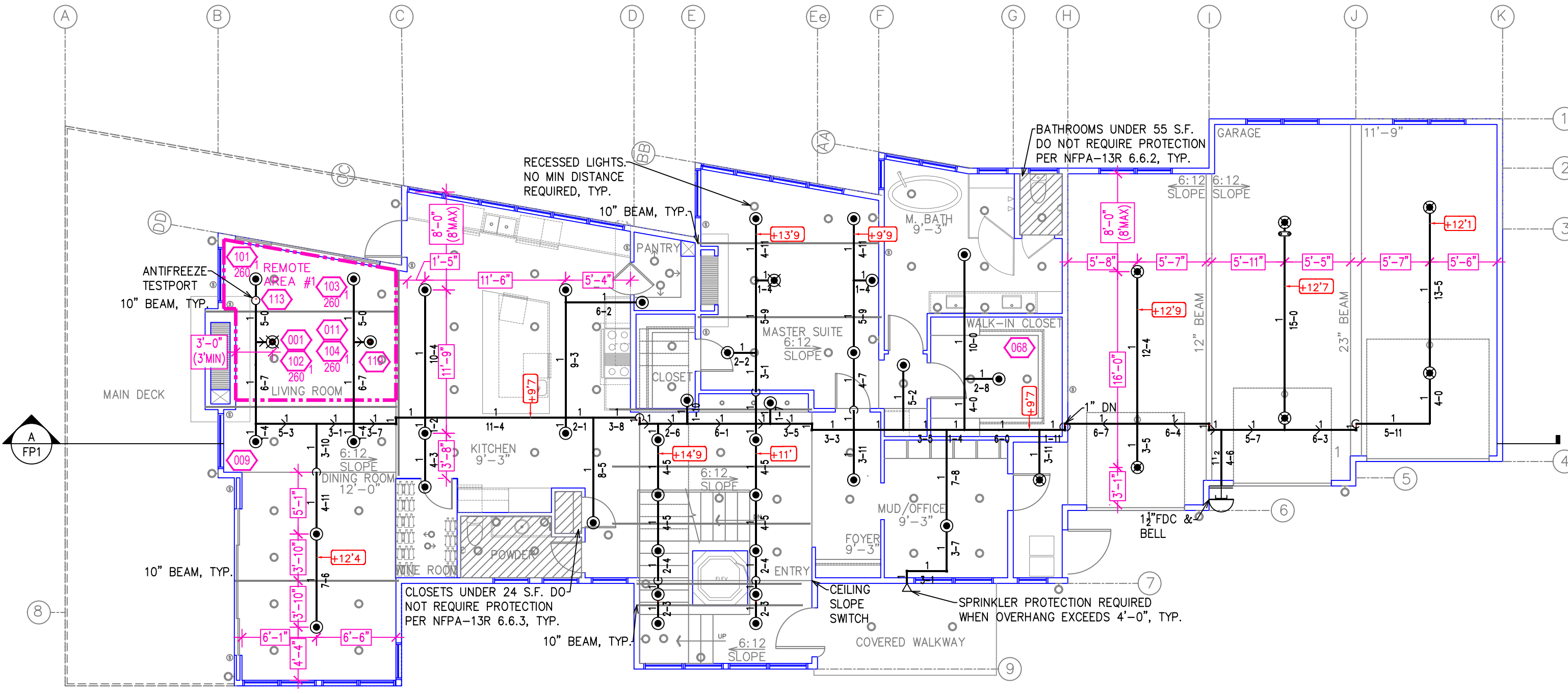


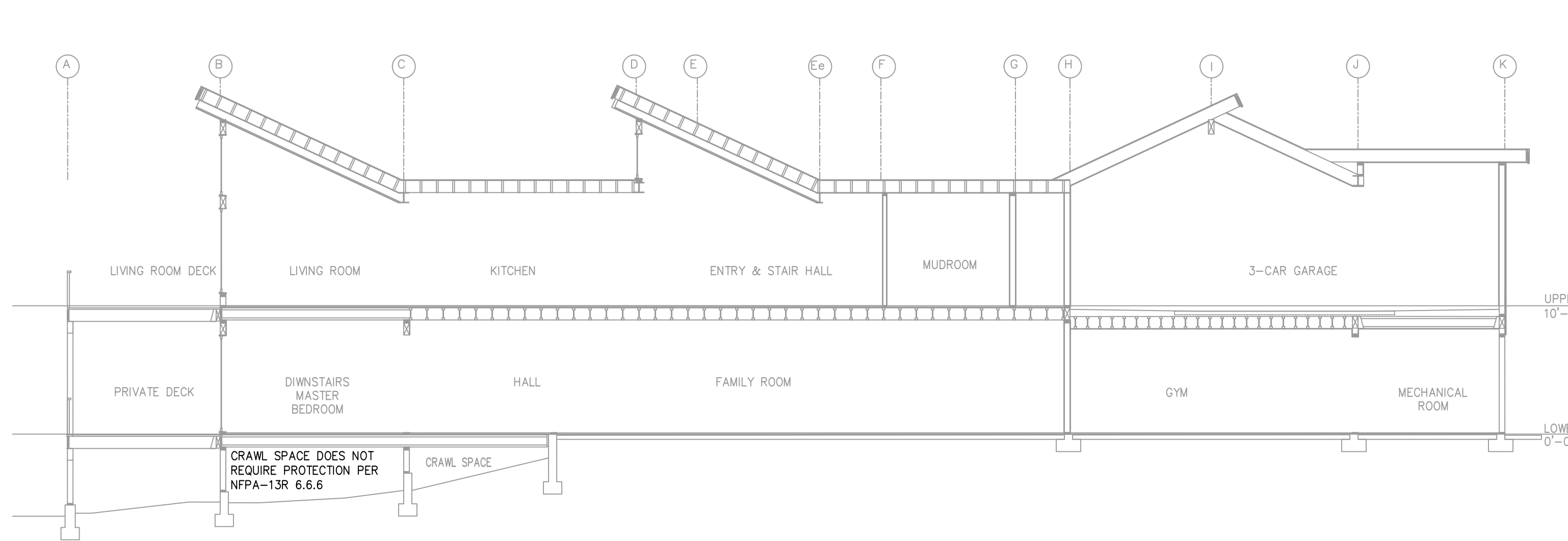
**FIRE SPRINKLER PLAN - LOWER LEVEL**

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



**FIRE SPRINKLER PLAN - UPPER LEVEL**

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

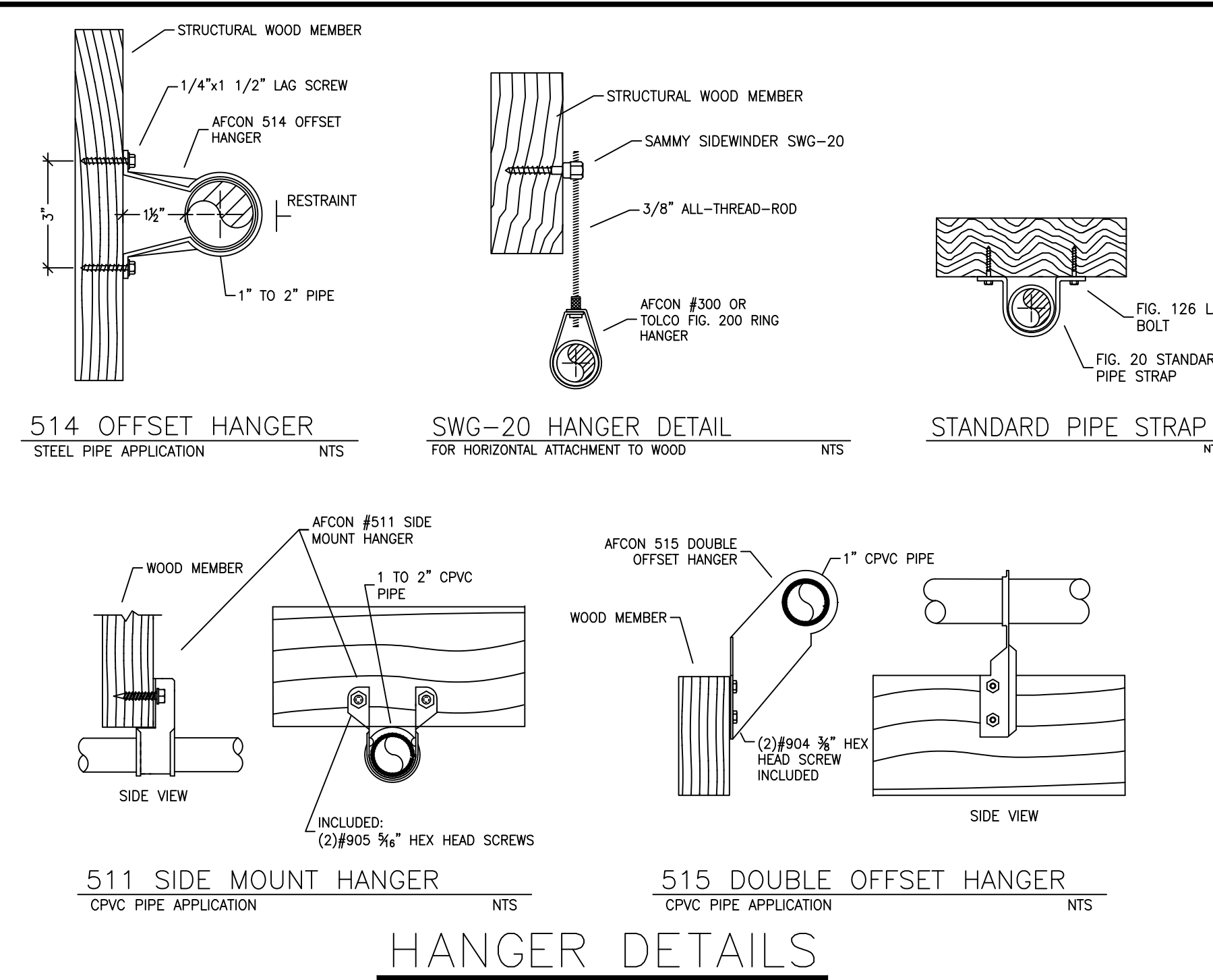


**BUILDING SECTION A**

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

**SPRINKLER SPACING**

- A SINGLE PENDENT SPRINKLER MAY BE SPACED AT A MAXIMUM OF 16'x16' (256SQ. FT.) OR UP TO 8' OFF A WALL.
- TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 16'x16' (256SQ. FT.) OR UP TO 8' OFF A WALL.
- SPRINKLERS SHALL BE MEASURED AT PERPENDICULAR ANGLES TO WALLS AND ALONG THE SLOPES OF CEILINGS.



**HANGER DETAILS**

**PROJECT SUMMARY:**

PROJECT NAME: **SABIN RESIDENCE**  
 PROJECT ADDRESS: **519 DALE DRIVE, INCLINE VILLAGE NV**  
 APN: \_\_\_\_\_  
 PROJECT TYPE:  NEW  T.I.  
 TYPE OF CONSTRUCTION: **V**  
 OCCUPANCY GROUP(S): **R3**  
 OCCUPIED LEVELS: **2**  
 TOTAL SPRINKLERED AREA: **6655** 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: **82**  
 SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

**PIPE VOLUMES:**  
(CPVC)

TOTAL PIPE FOOTAGE AND CAPACITY:  
 1" = 725' (35.85 GAL)  
 1 1/2" = 14' (1.11 GAL)

TOTAL VOLUME: ± 36.96 GALLONS

NFPA 13 - Table A.7.2.3 Capacity of 1 ft of pipe (Based on Actual Internal Pipe Diameter)

Nominal Pipe Diameter (in.)	Schedule 40	Schedule 10	CPVC
1	0.045	0.049	0.049
1 1/2	0.078	0.085	0.079
2	0.106	0.115	0.104
2 1/2	0.174	0.190	0.174
3	0.248	0.283	0.248

**PROJECT SQUARE FOOTAGES**

LOWER LEVEL = 3305 S.F.  
 UPPER LEVEL = 3350 S.F.

**SUBMITTAL**

NO SPRINKLERS REQUIRED IN:  
 BATHROOMS 55 SQ.FT. OR LESS IN AREA PER NFPA 13R SECTION 6.6.2  
 CLOSETS 24 SQ.FT. OR LESS IN AREA PER NFPA 13R SECTION 6.6.3

**REMOTE AREA 1**

Hydraulically Calculated System

This system as shown on Fire Protection Plan company print no. \_\_\_\_\_ dated 10/4/2021 for Sabin Residence contract no. \_\_\_\_\_ at Living Room is designed to discharge at a rate of 0.05 gpm (L/min) per sq ft (m<sup>2</sup>) of floor area over a maximum area of \_\_\_\_\_ sq ft (m<sup>2</sup>) when supplied with water at the rate of 80.3 gpm (L/min) at 124.7 psi (bars) at the base of the riser. Hose stream allowance of 25 gpm (L/min) is included in the above.

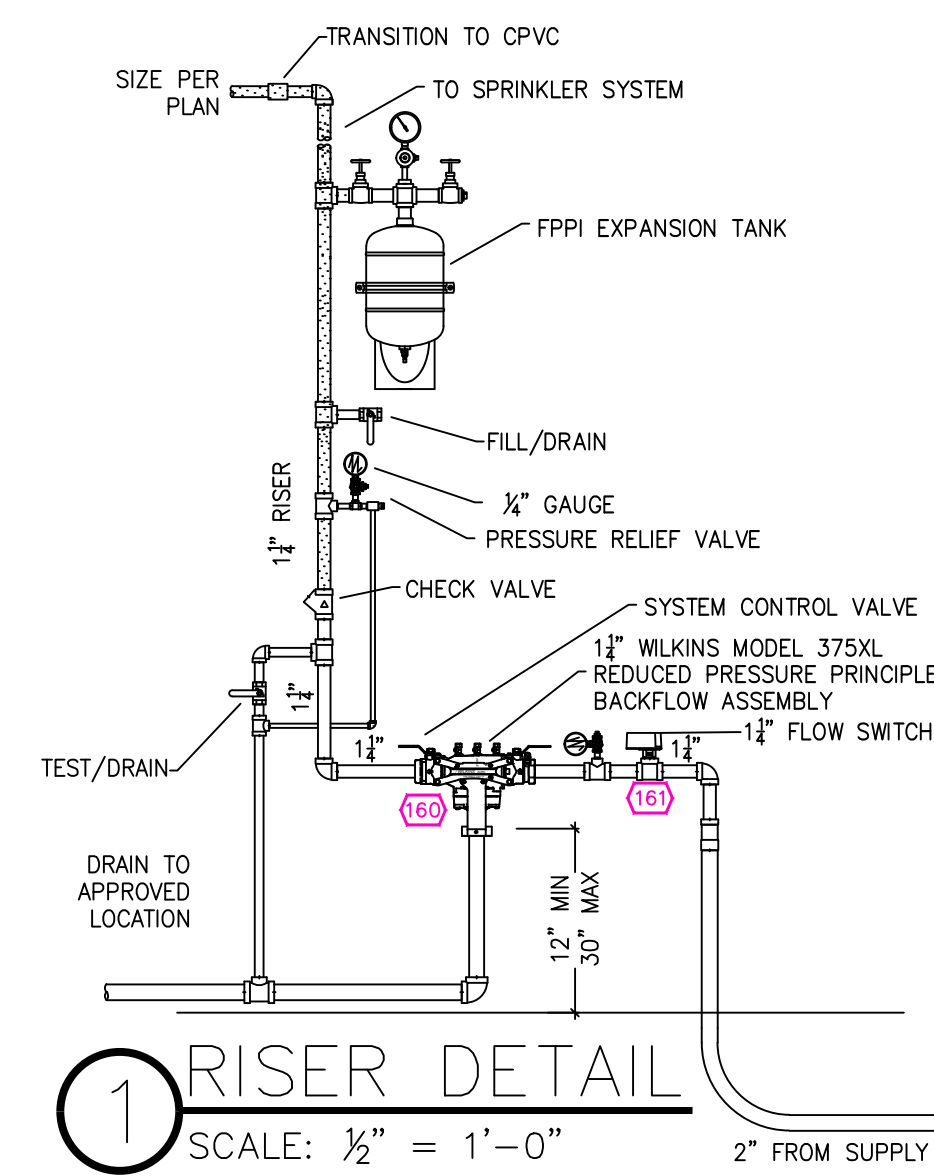
Occupancy classification: **13R LIGHT HAZARD**  
 Commodity classification: **N/A**  
 Maximum storage height: **N/A**  
 Safety factor: **13.0**

**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 HOT AIR DIFFUSERS	24"	12"
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER, FURNACE, LIGHT FIXTURE 0-250 WATT	6"	3"

NFPA 13 - Table 9.2.2.1(a) Maximum Distance Between Hangers (ft-in.)

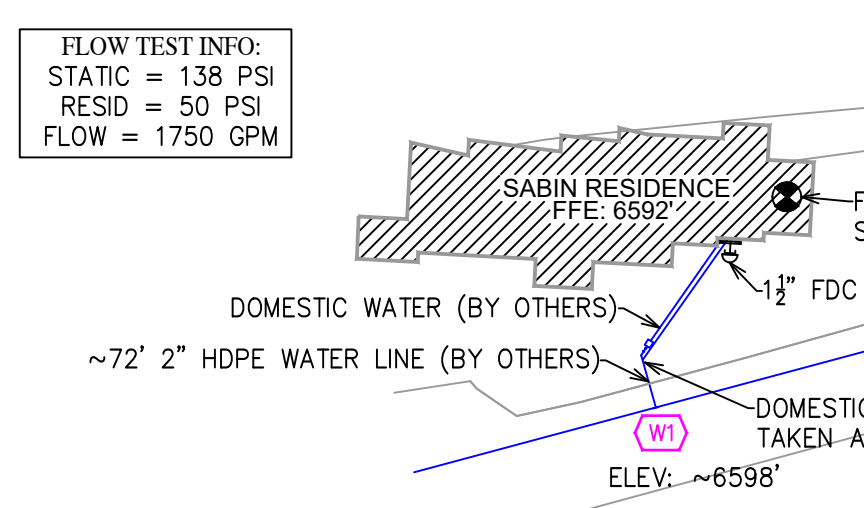
Nominal Pipe Size (in.)	Steel Pipe except threaded								Threaded lightwall steel pipe								Copper tube								CPVC																								
	3/8	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8	1/2	3/4	1	1 1/2	2	2 1/2	3	4	6	8								
1/2	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	N/A	N/A	N/A	8-0	8-0	10-0	10-0	10-0	12-0	12-0	15-0	15-0	15-0	N/A	N/A	N/A	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A



**1 RISER DETAIL**

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

THIS FIRE SPRINKLER SYSTEM UTILIZES THE TYCO LFP ANTI-FREEZE SOLUTION



**SITE PLAN**

SCALE: 1" = 50'-0"

NO.	DATE	REVISIONS	DRAWN	CHECKED

GENERAL CONTRACTOR: \_\_\_\_\_ AUTHORITY HAVING JURISDICTION: N LAKE TAHOE FIRE PROTECTION DISTRICT  
 ADDRESS: 866 ORIOLE WAY  
 CITY: INCLINE VILLAGE, NV  
 PHONE: 775-831-0351  
 CONTACT: \_\_\_\_\_

ARCHITECT: \_\_\_\_\_ FIELD INSPECTIONS: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY: \_\_\_\_\_  
 PHONE: \_\_\_\_\_

**FIRE SPRINKLER NOTES:**

- THE PROPOSED FIRE SPRINKLER SYSTEM IS AN ANTI-FREEZE SYSTEM AND SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13R WITH MODIFICATIONS MANDATED BY THE AHJ AS FOLLOWS:
  - SPRINKLER PROTECTION FOR OVERHANGS OVER 4'-0"
  - HEAD CALCULATION
  - ANTIFREEZE TESTPORT
- THIS SPRINKLER SYSTEM IS HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA 13R TO PROVIDE 0.05 GPM PER SQ. FT. OVER THE MOST REMOTE AREA.
- THE NUMBER OF DESIGN SPRINKLERS SHALL INCLUDE ALL SPRINKLERS WITHIN A COMPARTMENT UP TO A MAXIMUM OF 4 SPRINKLERS.
- ALL SPRINKLER PIPING CONCEALED ABOVE CEILINGS SHALL BE CPVC PIPING UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS SHOWN ARE CENTER TO CENTER U.O.N.
- ALL HANGERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13R AND/OR NFPA 13 REQUIREMENTS.
- HOLES THROUGH SOLID STRUCTURAL MEMBERS SHALL BE PERMITTED TO SERVE AS HANGERS FOR THE SUPPORT OF SYSTEM PIPING.
- ALL SYSTEM PIPING SHALL BE TESTED FOR LEAKAGE AT NORMAL SYSTEM OPERATING PRESSURE.
- 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).

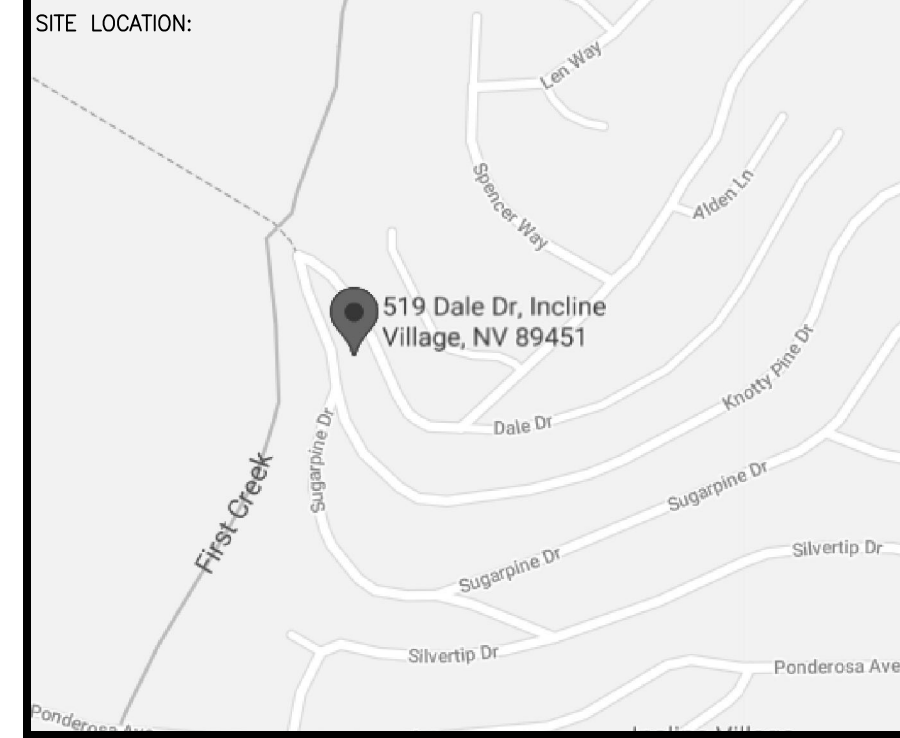
**SPRINKLER HEAD LEGEND**

SYM	QTY	TYPE	MFG.	MODEL#	NPT	K	TEMP	FINISH	SL
⊗	62	CONCEALED	SENJU	RC-RES	1/2"	4.9	162	WHITE	SS8464
⊗	7	SEMI-RECESS	SENJU	FR-RES	1/2"	4.9	175	WHITE	SS8451
⊗	4	CONCEALED	SENJU	RC-RES	1/2"	4.9	175	WHITE	SS8464
⊗	6	SIDEWALL	SENJU	FR-OR	1/2"	5.6	155	CHROME	SS2553
⊗	1	SEMI-RECESS	SENJU	FR-OR	1/2"	5.6	286	WHITE	SS2551
⊗	2	SEMI-RECESS	SENJU	FR-OR	1/2"	5.6	162	CHROME	SS2551

**82 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
- CHANGE ELEVATION DN
- PIPE HANGER & TYPE DESIGNATION
- HYDRAULIC REF PT
- ⊕ INSPECTORS TEST
- ⊕ GRID OR THRD CAP → AUX DRAIN
- ⊕ GRID COUPLING → REVISION NOTATION
- ⊕ TYPICAL POINT OF CONNECTION (POC) → LOCAL ALARM



PROJECT NAME: FIRE SPRINKLER PLANS FOR  
**SABIN RESIDENCE**  
 519 DALE DRIVE  
 INCLINE VILLAGE, NV 89451

STAMP: \_\_\_\_\_

DRAWING TITLE: **FIRE SPRINKLER PLAN**

SCALE: 1/8" = 1'-0" JOB NO.: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_ DWG NO.: \_\_\_\_\_  
 BORN ON DATE: 10/4/2021  
 FILE: 10/4/2021 SHEET 1 OF 1