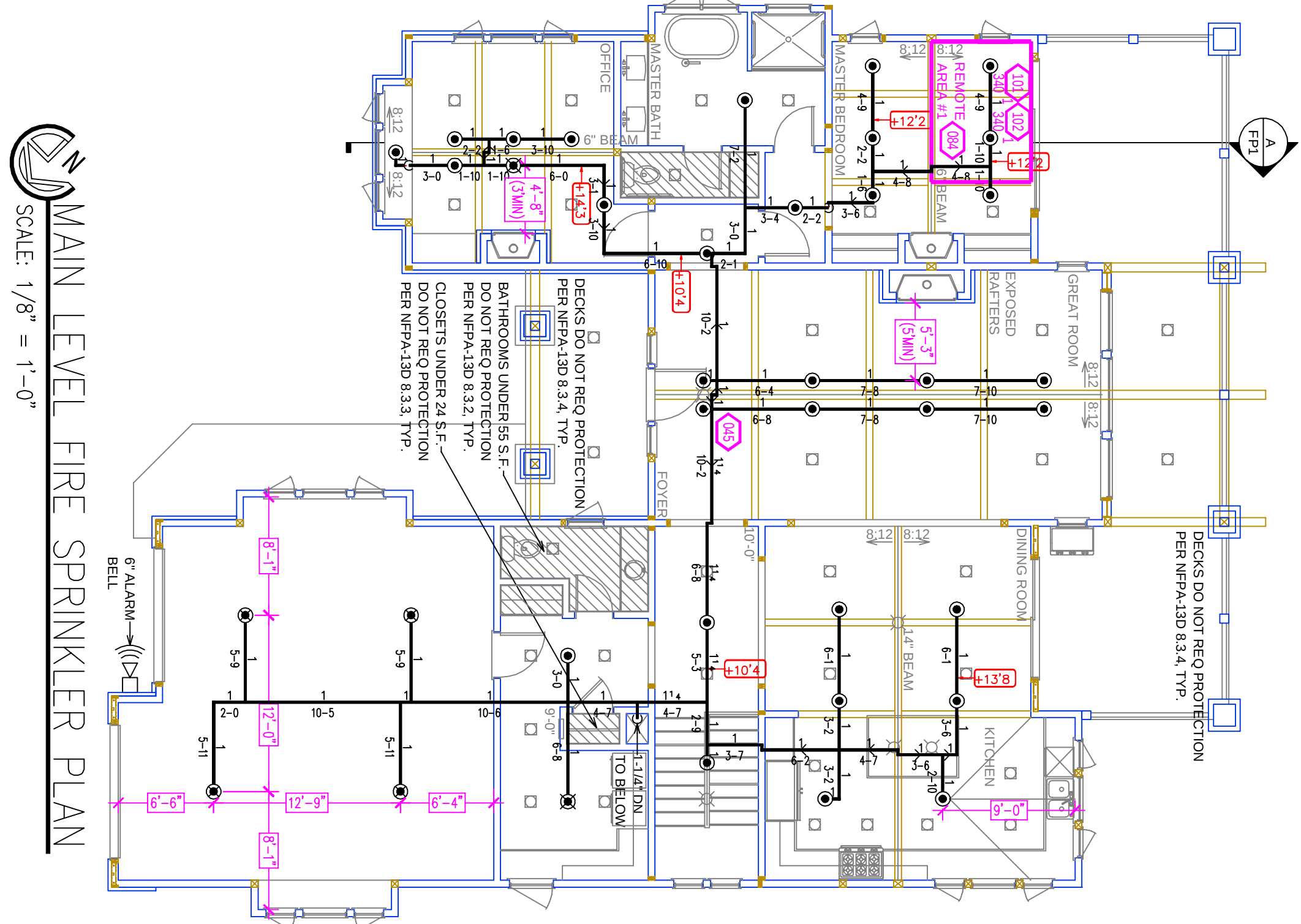
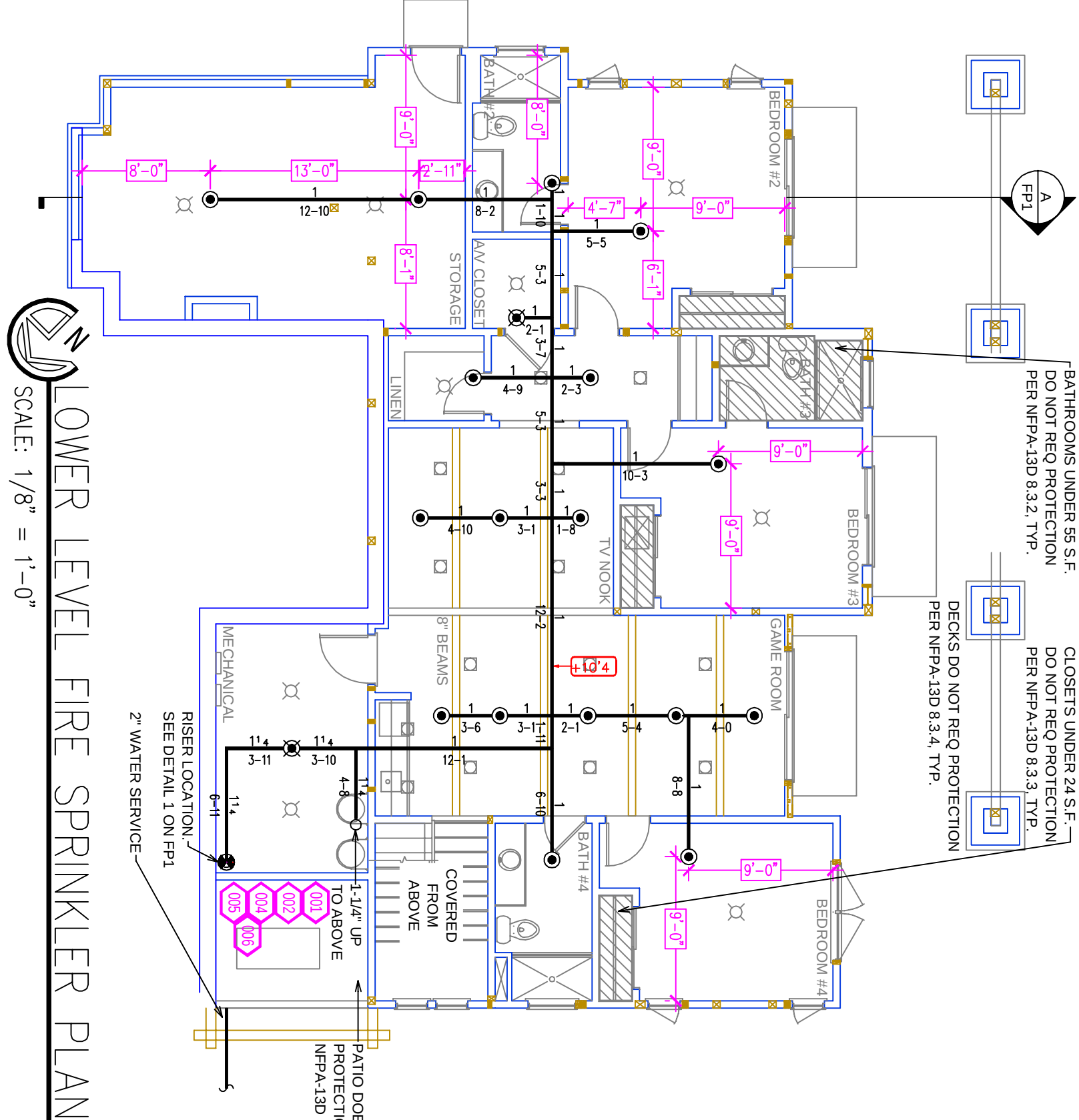




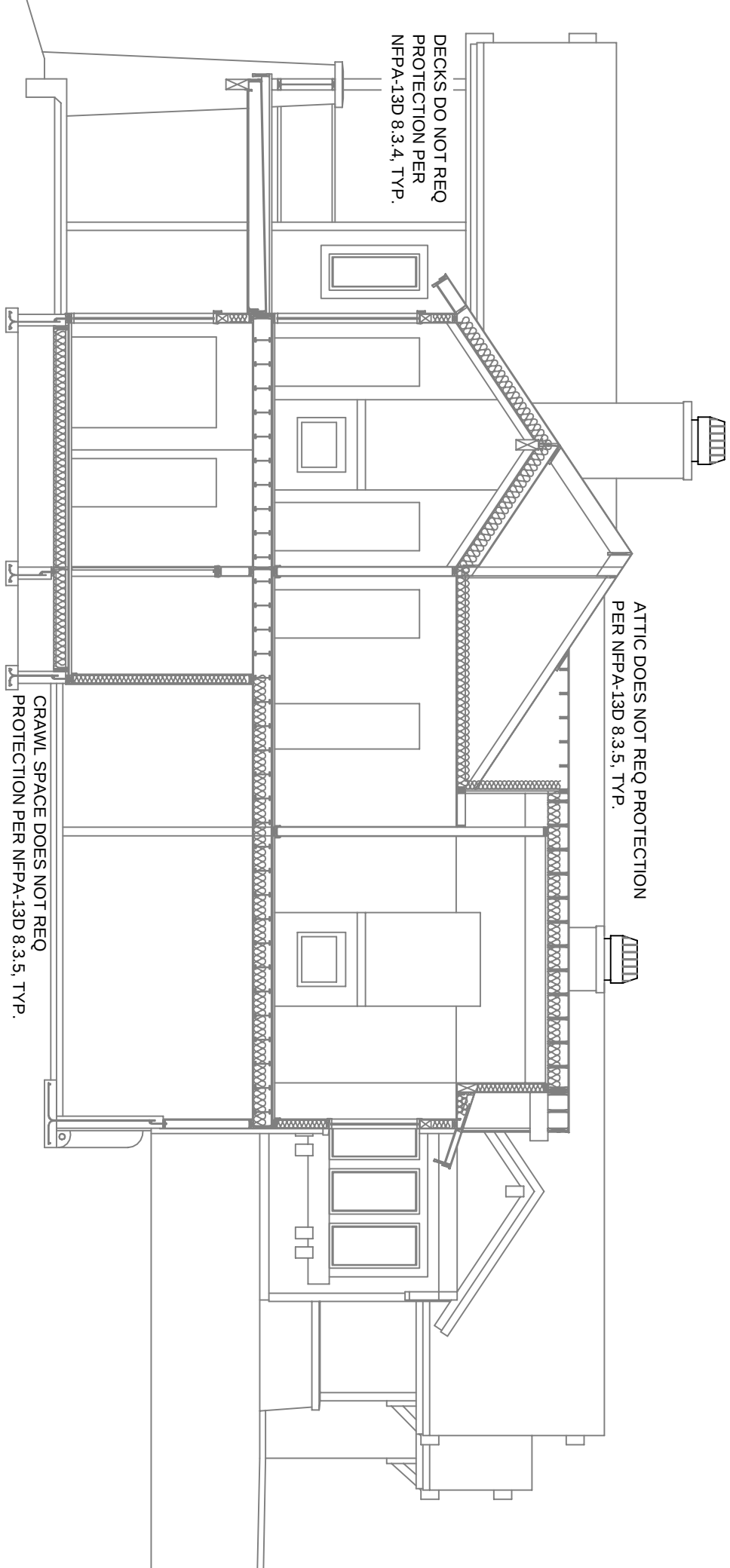
SPRINKLER HEAT ZONES:		
HEAT SOURCE:	TEMP SPRINKLER	INTERMEDIATE SPRINKLER
SIDE OF OPEN OR RECESSED FIRE PLACE	36"	12"
FRONT OF RECESSED FIRE PLACE	60"	36"
COAL OR WOOD BURNING STOVE	42"	12"
RANGE/STOVE, HOT AIR FLEX & UNINSULATED HOT WATER PIPES & 250-499 WATT LIGHTS	18"	9"
250-499 WATT LIGHTS	12"	6"
FRONT OF WALL MOUNTED HOT AIR DIFFUSERS	24"	12"
HOT AIR DIFFUSERS	36"	18"
HOT WATER HEATER, FURNACE, LIGHT FIXTURE	6"	3"
0-250 WATT		

PROJECT SUMMARY:

PROJECT NAME: SCRUGGS RESIDENCE
PROJECT ADDRESS: 102 WOODCREST TRAIL, MAMMOTH LAKES, CA 93246
APN: 040-120-019-000
PROJECT TYPE: NEW T.I.
TYPE OF CONSTRUCTION: V
OCCUPANCY GROUP(S): R3
TOTAL SPRINKLERED AREA: 4619 SQ. FT.
NFPA CODE REQUIREMENT: NFPA 13 NFPA 13R NFPA 13D
SYSTEM TYPE(S): WET ANTI-FREEZE DRY PREACTION
TOTAL SPRINKLERS: 57
SPECIAL NOTES: SEE FIRE SPRINKLER NOTES THIS SHEET

- SPRINKLER SPACING**
- A SINGLE REMOTE 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).
 - TWO OR MORE HEADS IN A COMPARTMENT SHALL BE SPACED AT A MAXIMUM OF 8'-0" BETWEEN SPRINKLERS AT CORNERS AND ANGLES.
 - TO WALLS AND ALONG THE SLOPES OF CEILING.

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



SUBMITTAL

NO SPRINKLERS REQUIRED IN:
BATHROOMS 55 SQ. FT. OR LESS IN AREA CLOSETS 24 SQ. FT. OR LESS IN AREA PER NFPA 13D SECTION 8.3.3

PROJECT SQUARE FOOTAGES
LOWER FLOOR = 1808 SF
MAIN FLOOR = 2811 SF

PIPE VOLUMES:

(CPVC)
TOTAL PIPE PROTECT AND CAPACITY:
1" = 415' (2052 GAL)
1-1/4" = 61' (484 GAL)

ADD 10% FOR DROPS AND PIPE SIZE DISCREPANCIES
TOTAL VOLUME: ± 27,900 GALLONS

NFPA 13.1 Table A.7.2.3 Capacity of 1" & 1-1/4" Pipe		
(Based on Actual Internal Pipe Diameters)		
Nominal Pipe Diameter (in.)	Schedule 40	CPVC
1"	0.845	0.848
1-1/4"	0.978	0.985
1-1/2"	1.006	0.915
2"	0.174	0.180
2-1/2"	0.248	0.283

NFPA 13.1 Table 8.2.2.1.0 Maximum Distances Between Hangers (ft/in.)									
Nominal Pipe Size (in.)									
1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
Steel pipe except threaded									
Upstream									
NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Threaded									
NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Downstream									
NA	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Copper tube									
5-0	6-0	6-6	7-0	8-0	9-0	10-0	NA	NA	NA

REMOTE AREA 1

Hydraulically Calculated System

This system is designed to protect the entire area of the property per NFPA 13.1, 13.2, 13.3, 13.4, 13.5, 13.6, 13.7, 13.8, 13.9, 13.10, 13.11, 13.12, 13.13, 13.14, 13.15, 13.16, 13.17, 13.18, 13.19, 13.20, 13.21, 13.22, 13.23, 13.24, 13.25, 13.26, 13.27, 13.28, 13.29, 13.30, 13.31, 13.32, 13.33, 13.34, 13.35, 13.36, 13.37, 13.38, 13.39, 13.40, 13.41, 13.42, 13.43, 13.44, 13.45, 13.46, 13.47, 13.48, 13.49, 13.50, 13.51, 13.52, 13.53, 13.54, 13.55, 13.56, 13.57, 13.58, 13.59, 13.60, 13.61, 13.62, 13.63, 13.64, 13.65, 13.66, 13.67, 13.68, 13.69, 13.70, 13.71, 13.72, 13.73, 13.74, 13.75, 13.76, 13.77, 13.78, 13.79, 13.80, 13.81, 13.82, 13.83, 13.84, 13.85, 13.86, 13.87, 13.88, 13.89, 13.90, 13.91, 13.92, 13.93, 13.94, 13.95, 13.96, 13.97, 13.98, 13.99, 14.00, 14.01, 14.02, 14.03, 14.04, 14.05, 14.06, 14.07, 14.08, 14.09, 14.10, 14.11, 14.12, 14.13, 14.14, 14.15, 14.16, 14.17, 14.18, 14.19, 14.20, 14.21, 14.22, 14.23, 14.24, 14.25, 14.26, 14.27, 14.28, 14.29, 14.30, 14.31, 14.32, 14.33, 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