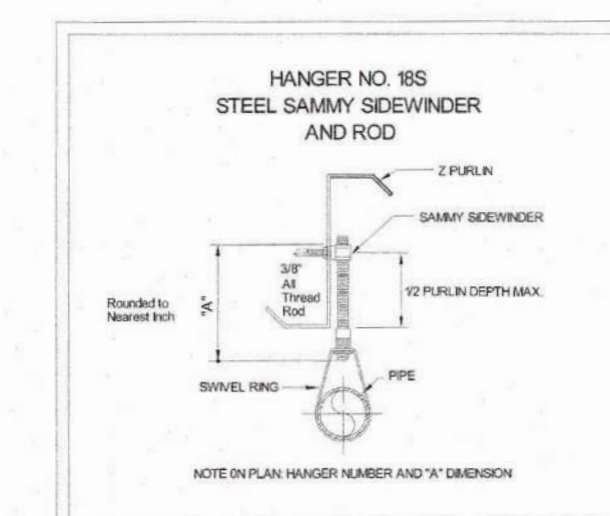
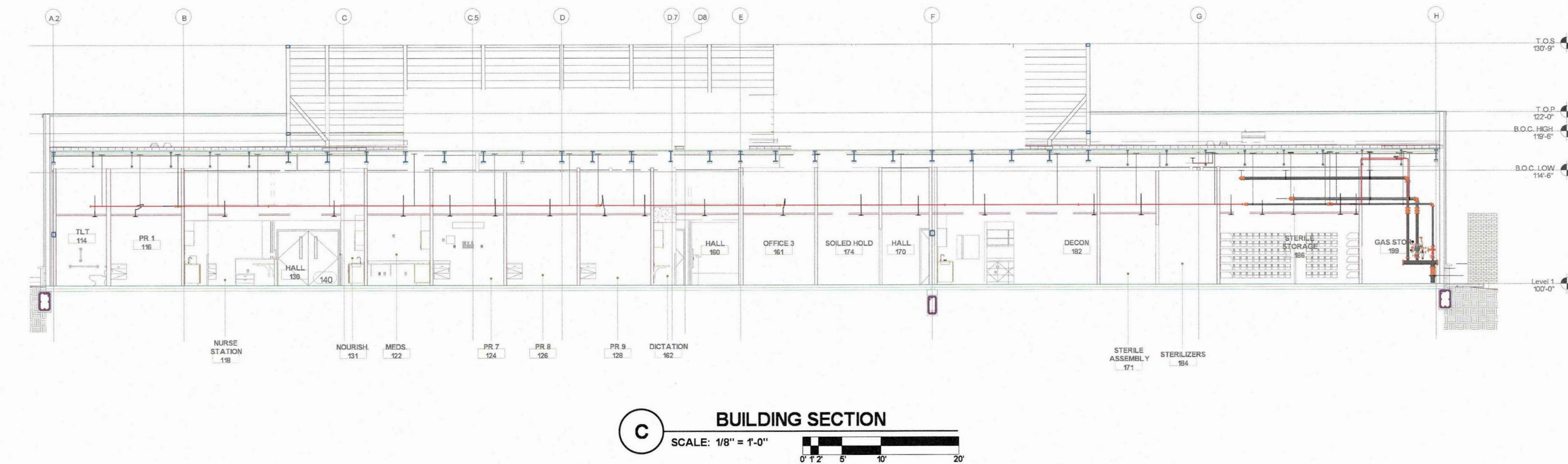




Sprinkler Legend									
Symbol	Quantity	Manufacturer	SIN	K-Factor	Type	Size	Finish	Temperature	Note
	149	Viking	VK3021	5.6	Pendent	%	Chrome	200 °F	
	12	Viking	VKA421	5.6	Pendent	%	Chrome	200 °F	
	12	Viking	VKA421	5.6	Pendent	%	Chrome	200 °F	W/ SEALING CVR PL
	26	Viking	VK3001	5.6	Upright	%	Brass	200 °F	
	2	Viking	VK3001	5.6	Upright	%	Brass	200 °F	ON SPRIG
	17	Tyco	TY5137	11.2	Upright	%	Brass	200 °F	
Total = 218									

Hydraulic Information		Hydraulic Information	
OCCUPANCY CLASSIFICATION	Light Hazard - AREA 1 -	OCCUPANCY CLASSIFICATION	Light Hazard - AREA 2 -
DENSITY (gpm/ft ²)	0.5 @ 9500 ft ² (Actual 1056 ft ²)	DENSITY (gpm/ft ²)	0.5 @ 9500 ft ² (Actual 1122 ft ²)
QUICK RESPONSE REDUCTION	9"-5 Ceiling (40.0%) 900 ft ²	QUICK RESPONSE REDUCTION	12"-0 Ceiling (37.0%) 945 ft ²
TOTAL HOSE STREAMS	10.00	TOTAL HOSE STREAMS	10.00
TOTAL HEADS FLOWING	12.00	TOTAL HEADS FLOWING	12.00
K-FACTOR	6.8	K-FACTOR	5.6
TOTAL WATER REQUIRED	287.27	TOTAL WATER REQUIRED	288.47
TOTAL PRESSURE REQUIRED	46.303	TOTAL PRESSURE REQUIRED	50.363
BASE OF RISER (gpm)	197.67	BASE OF RISER (gpm)	186.47
BASE OF RISER (psi)	32.25	BASE OF RISER (psi)	36.714
SAFETY MARGIN (psi)	+43.305 (48.3%)	SAFETY MARGIN (psi)	+35.240 (43.8%)
Hydraulic Information		Hydraulic Information	
OCCUPANCY CLASSIFICATION	Ordinary Group I - AREA 3 -	OCCUPANCY CLASSIFICATION	Ordinary Group I - AREA 4 -
DENSITY (gpm/ft ²)	0.5 @ 9500 ft ² (Actual 1077 ft ²)	DENSITY (gpm/ft ²)	0.5 @ 9500 ft ² (Actual 988 ft ²)
TOTAL HOSE STREAMS	250.00	TOTAL HOSE STREAMS	250.00
DRY CAPACITY	292.91 gal	DRY CAPACITY	292.91 gal
TOTAL HEADS FLOWING	14.00	TOTAL HEADS FLOWING	14.00
K-FACTOR	5.6	K-FACTOR	4.12
TOTAL WATER REQUIRED	686.35	TOTAL WATER REQUIRED	785.50
TOTAL PRESSURE REQUIRED	79.816	TOTAL PRESSURE REQUIRED	74.887
BASE OF RISER (gpm)	339.15	BASE OF RISER (gpm)	525.50
BASE OF RISER (psi)	42.976	BASE OF RISER (psi)	61.039
SAFETY MARGIN (psi)	127.37 (13.7%)	SAFETY MARGIN (psi)	112.98 (14.4%)

PAY ITEM: SPI
REVIEWING AUTHORITY: OWNER / CITY
ALL HEADS THIS SHEET: 2
TOTAL HEADS THIS 2
DRAWN BY: ALEC MOBLE
DATE: 11-20-2023
REVISION DATE --
SCALE: AS SHOWN
CONTRACT 4333C
DWG #: EDC