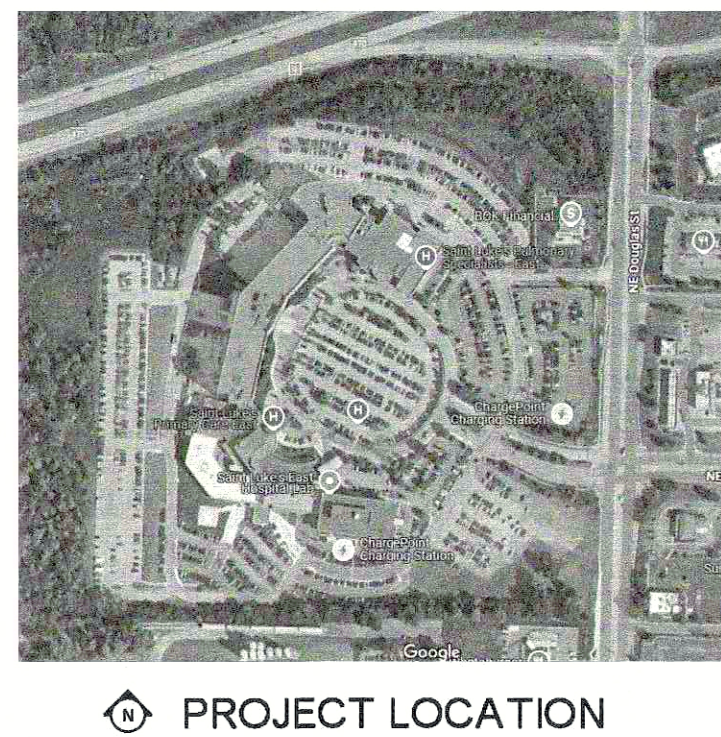
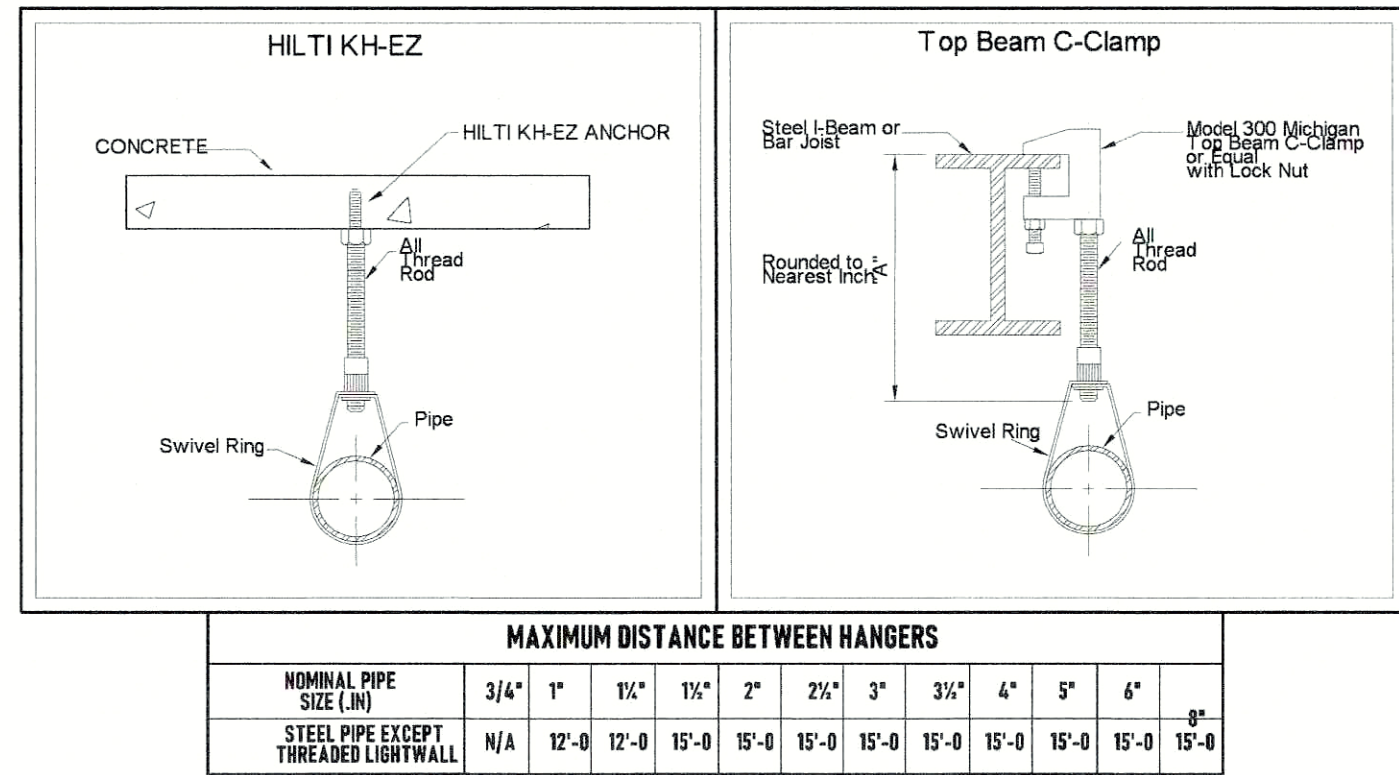
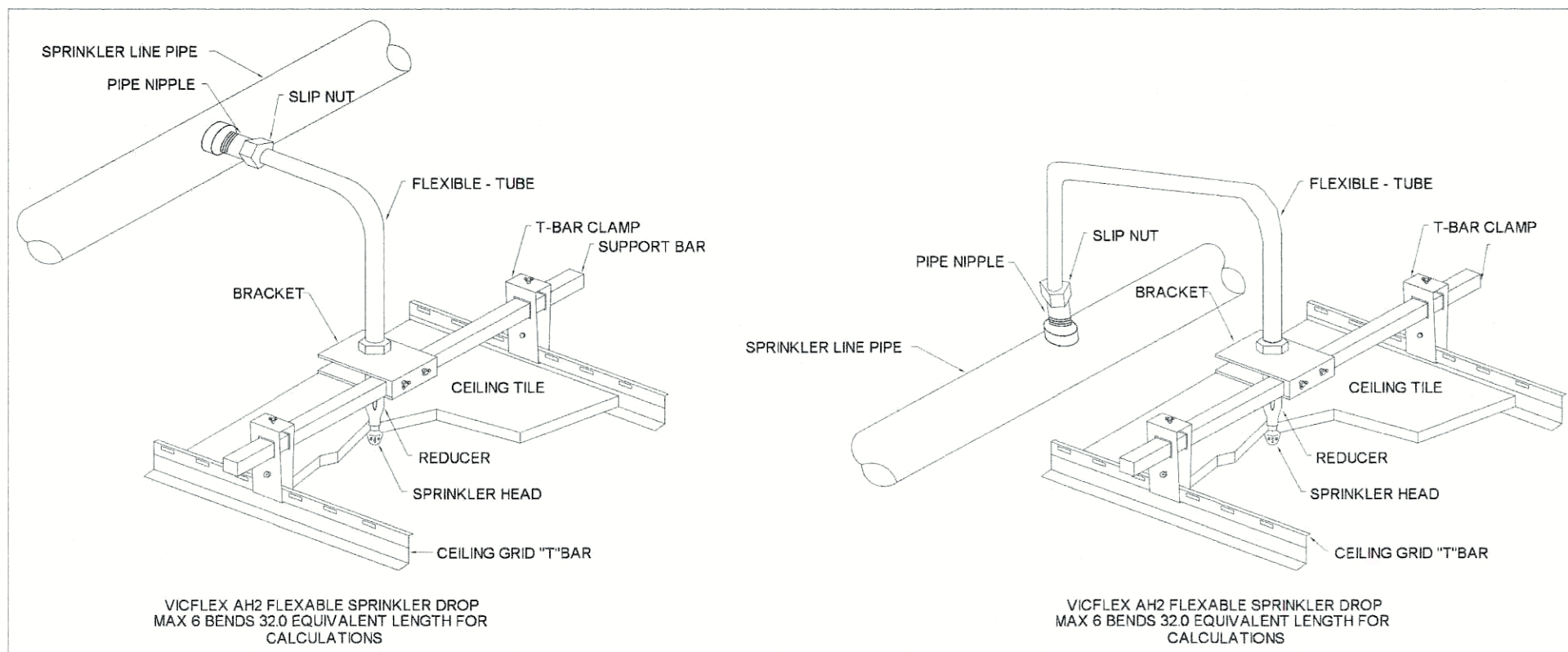


'ALL CEILINGS TO BE 9'-0" AFF UNLESS NOTED OTHERWISE
'ALL SPRINKLER SYSTEMS SHALL CONFORM WITH THE REQUIREMENTS OF NFPA
'ALL SECTIONS OF TRAPPED PIPING TO HAVE AUXILIARY DRAINS WHERE REQUIRED PER NFPA
'ALL HANGER TO BE INSTALLED PER REQUIREMENTS OF NFPA
'PENETRATIONS THROUGH FIRE RATED WALL SHALL BE FIRE CAULKED AS REQUIRED PER CONTRACT
'THE OWNER SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE HEAT TO PREVENT
WATER FILLED PIPE FROM FREEZING
'AMERICAN FIRE SPRINKLER CORP. IS NOT CONTRACTED TO PROVIDE THE ALARM WIRING TO THE
CENTRAL STATION ALARM SYSTEM
'THREADED PIPING 1" -2" SHALL BE SCH 40 BLACK STEEL WITH DUCTILE THREADED FITTINGS
'GROOVED PIPING 1" -2" SHALL BE SCH 40 BLACK STEEL WITH VICTAULAC GROOVED FITTINGS
'GROOVED PIPING 2 1/2" -8" SHALL BE SCH 40 BLACK STEEL WITH VICTAULAC GROOVED FITTINGS
'SYSTEM PIPE SHALL BE SIZED PER HYDRAULIC CALCULATION

*BUILDING USE: HOSPITAL
*CONSTRUCTION TYPE: 1-A
*OCCUPANCY GROUP IS: B - BUSINESS
*AREA OF WORK: 7,530 +/- SF

SYSTEM DESIGN IS BASED ON 2018 IBC, NFPA 13 2016
SPRINKLER DESIGN DEMANDS SHALL BE AS FOLLOWS
*ALL SPACES ARE LIGHT HAZARD UNLESS NOTED OTHERWISE ON DRAWINGS
*LIGHT HAZARD: 0.10 GPM/SF OVER 1500 SQ. FT. + 100 GPM HOSE ALLOWANCE
*ORDINARY HAZARD GROUP 1: 0.15 GPM/SF OVER 1500 SQ. FT. + 250 GPM HOSE ALLOWANCE
*ORDINARY HAZARD GROUP 2: 0.20 GPM/SF OVER 1500 SQ. FT. + 250 GPM HOSE ALLOWANCE
*DESIGN AREAS UTILIZE QUICK RESPONSE SPRINKLER AREA REDUCTION IN ACCORDANCE WITH NFPA 13

[illegible]

Symbol	Description
	Hydraulic Reference Points
★ 0"	Elev. Below Top of Steel
★ 0"	Elev. Above Finished Floor
(0-0)	Elev. of Top of Steel
	Ceiling Height
	Denotes Hang Location
○	Rise up or down
	FLEXIBLE COUPLING
	HAZARD CLASSIFICATION

PE STAMP: SAINT LUKE'S EAST
SUMMIT GI ADDITION

100 NE SAINT LUKE'S BLVD
LEE'S SUMMIT, MO 64086

STATE OF MISSOURI
TOM R. HAMPTON
REGISTERED PROFESSIONAL ENGINEER
NUMBER E-10846
7/19/25

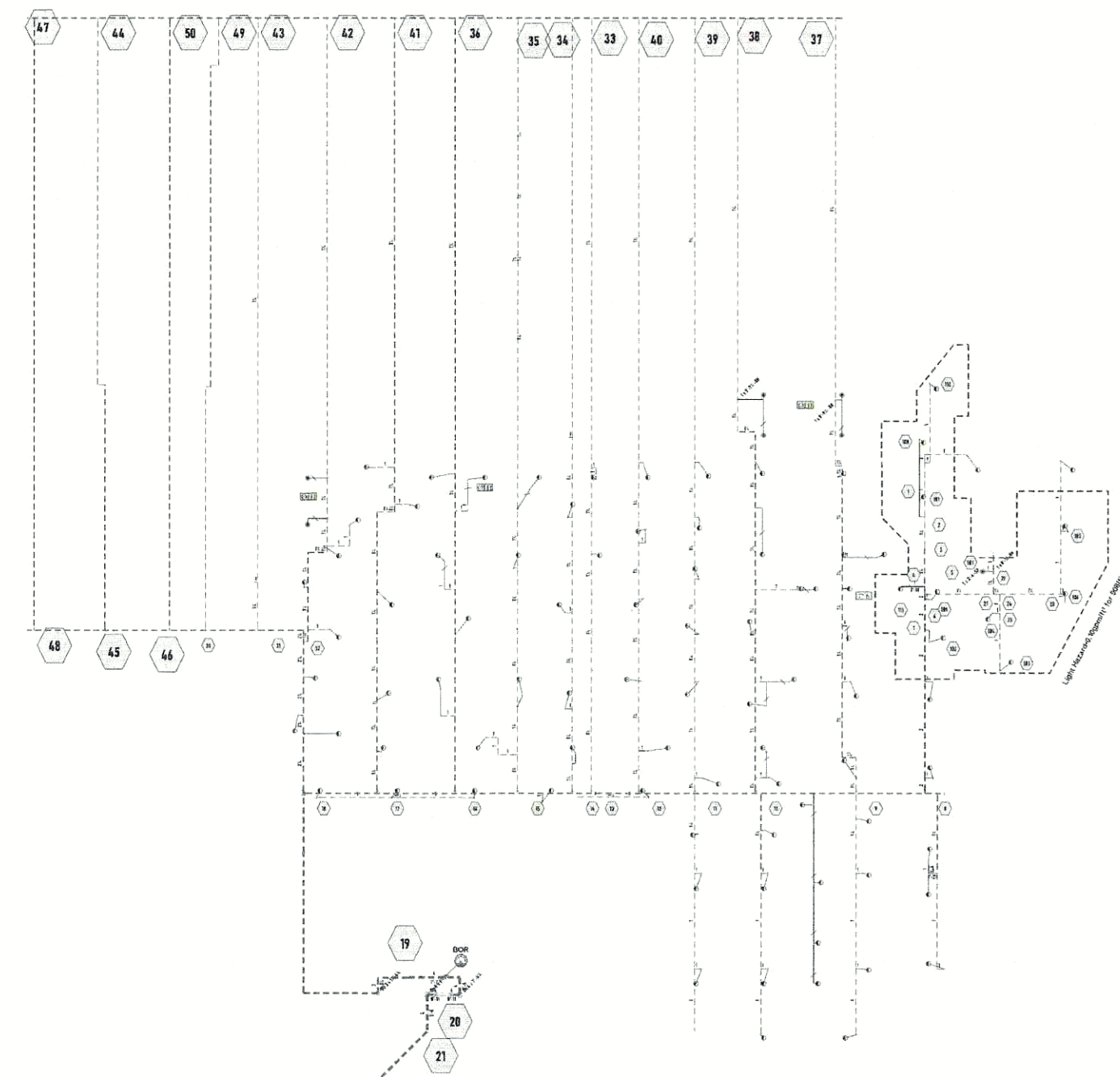


AMERICAN
FIRE SPRINKLER

OFFICE: 9750 W. 47TH TERR. MISSION, KS 66203
MAIL: P.O. BOX 958 MISSION, KS 66201-0958
913-722-4800

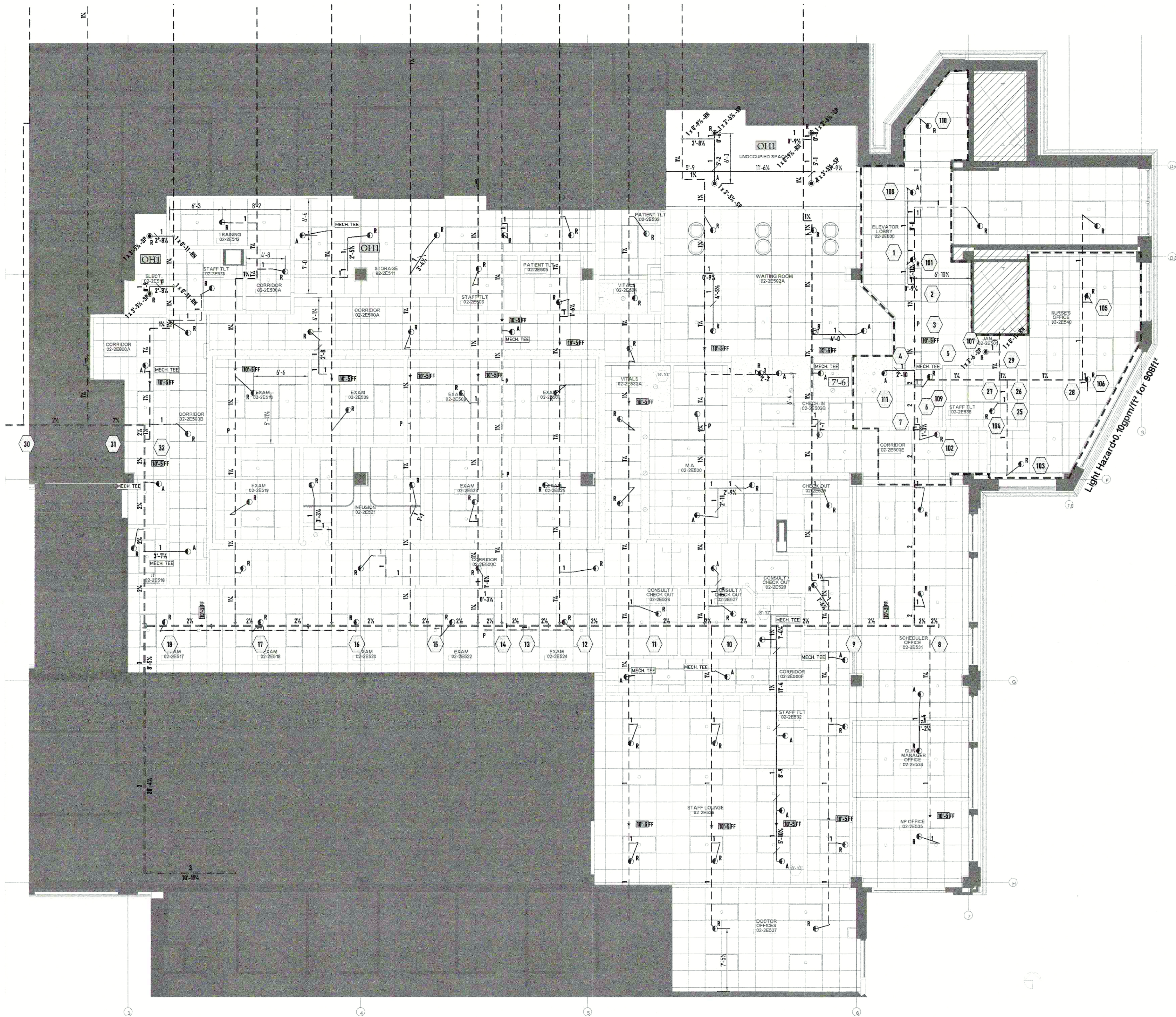
FIRE PROTECTION SYSTEMS • CONSULTANTS • DESIGN
FABRICATION • SALES • SERVICE

PAY	SPR
REVIEWING AUTHORITY : OWNER / LEE'S SUMMIT, MO	
ALL HEADS THIS SHEET:	98
TOTAL HEADS THIS	98
DRAWN BY: JONATHAN THOMPSON	
DATE:	07-03-2025
REVISION DATE	
SCALE:	AS SHOWN
CONTRACT	SK 1265
DWG #:	
FP01	
SHEET:	1 OF 1

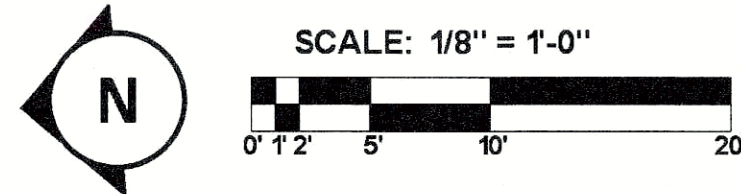


Supply Flow Test Data	
Test Conducted By	CITY OF LEE'S SUMMIT
Date of Test	7/9/2025
Time of Test	8:30am
Location	ST. LUKES EAST HOSPITAL
Static Pressure	104.000
Residual Pressure:	88.000
Flow	2100.00

HYDRAULIC REFERENCE
SCALE:N.T.S.



Hydraulic Information	
OCCUPANCY CLASSIFICATION	Light Hazard
DENSITY (gpm/ft ²)	0.10 for 1500ft ² (Actual 908ft ²)
TOTAL HOSE STREAMS	100.00
TOTAL HEADS FLOWING	11
K-FACTOR	5.6
TOTAL WATER REQUIRED	313.64
TOTAL PRESSURE REQUIRED	62.757
BASE of RISER (gpm)	213.64
BASE of RISER (psi)	61.574
SAFETY MARGIN (psi)	+40.768 (39.4%)



LEGEND	
	NOT IN CONTRACT
	EXISTING PIPE
	NEW PIPE
A	ADD SPRINKLER
R	RELOCATE / REPLACE SPRINKLER

SPRINKLER LEGEND										
SYMBOL	QUANTITY	MANUFACTURER	SIN	K-FACTOR	TYPE	SIZE	FINISH	TEMPERATURE	RESPONSE	NOTES
	91	VIKING	VK4621	5.6	CONC. PENDENT	½	WHITE	200°	QUICK	
	7	VIKING	VK3001	5.6	UPRIGHT	½	BRASS	200°	QUICK	ON SPRIG
TOTAL	98									

2ND FLOOR
FIRE PROTECTION SUBMITTAL