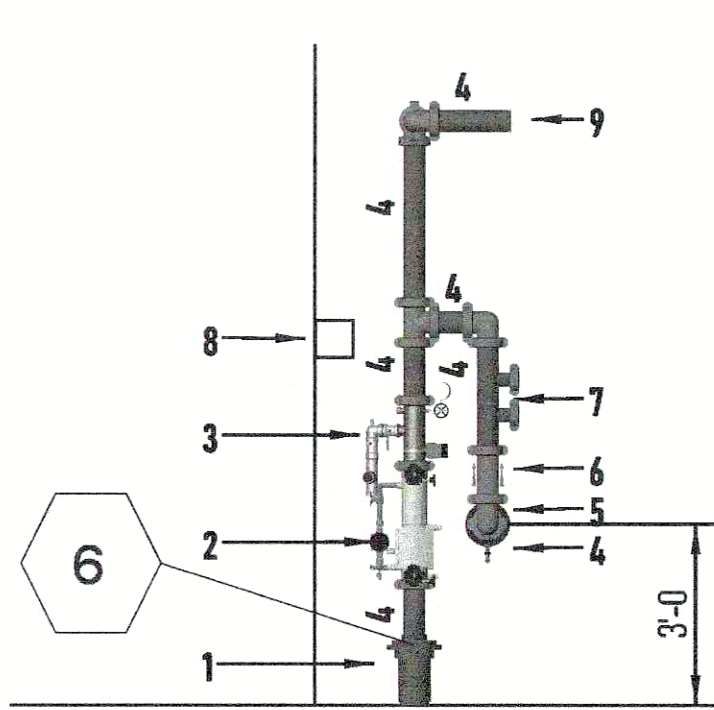


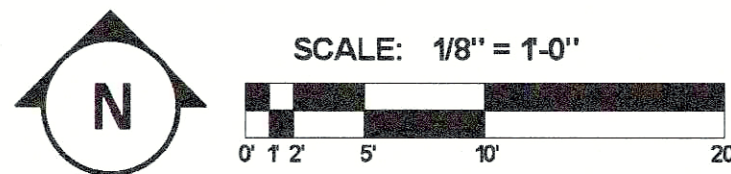
FIRE PROTECTION CODE ANALYSIS
 *SYSTEM DESIGN IS BASED ON 2018 IBC, NFPA 13 2016
 SPRINKLER DESIGN DEMANDS SHALL BE AS FOLLOWS
 **ALL SPACES ARE LIGHT HAZARD UNLESS NOTED OTHERWISE ON DRAWINGS
 *LIGHT HAZARD: 0.10 GPM/SQ FT. 0.10 GPM/SQ FT. 1500 SQ. FT. - 1000 GPM HOSE ALLOWANCE
 *ORDINARY HAZARD GROUP 1: 0.15 GPM/SQ FT. 0.15 GPM/SQ FT. + 250 GPM HOSE ALLOWANCE
 *ORDINARY HAZARD GROUP 2: 0.20 GPM/SQ FT. 0.20 GPM/SQ FT. + 250 GPM HOSE ALLOWANCE
 *DESIGN AREAS UTILIZE QUICK RESPONSE SPRINKLER AREA REDUCTION IN ACCORDANCE WITH NFPA 13



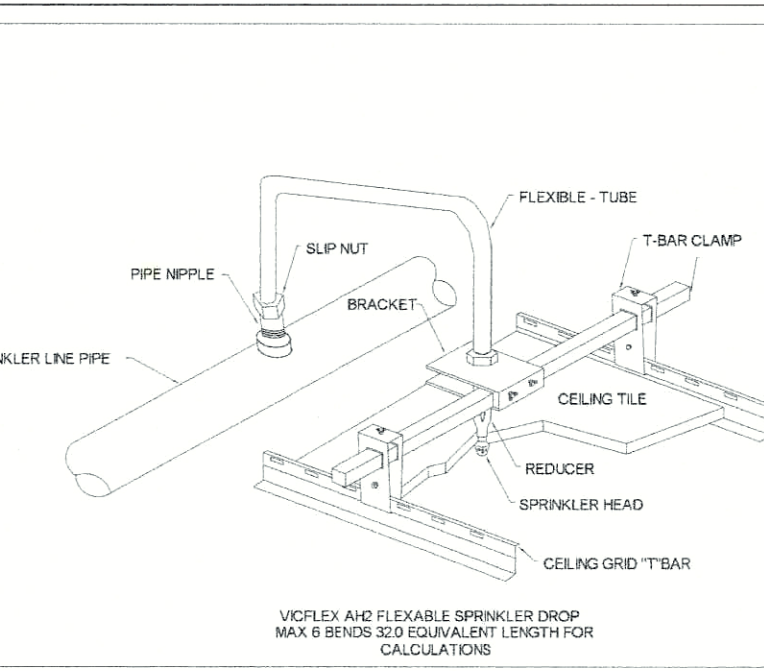
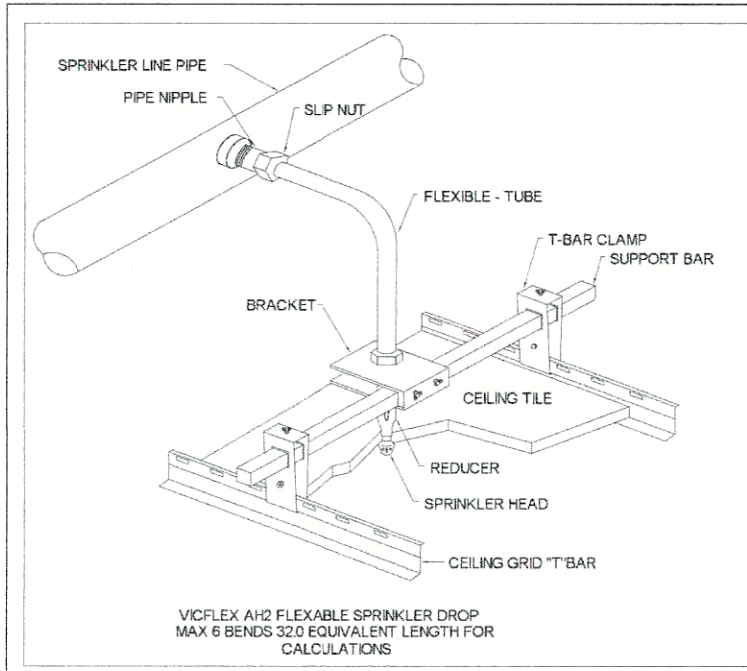
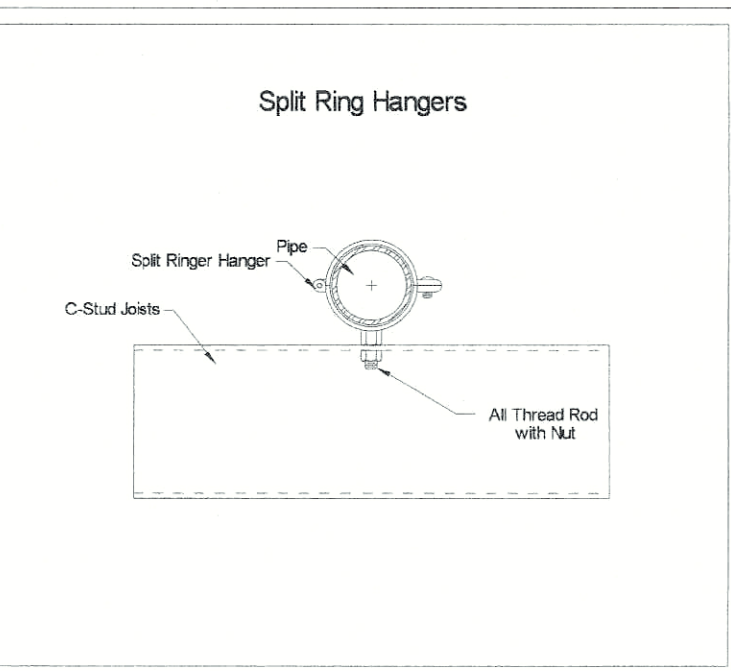
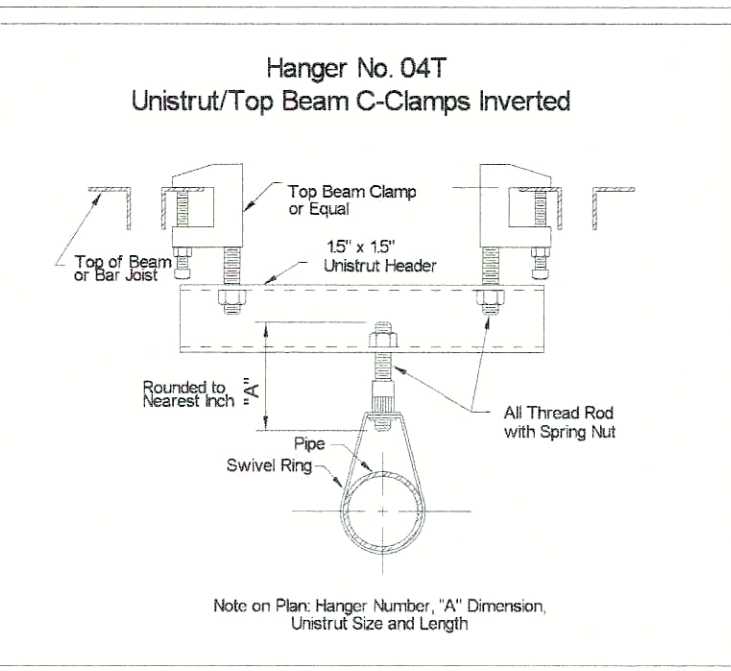
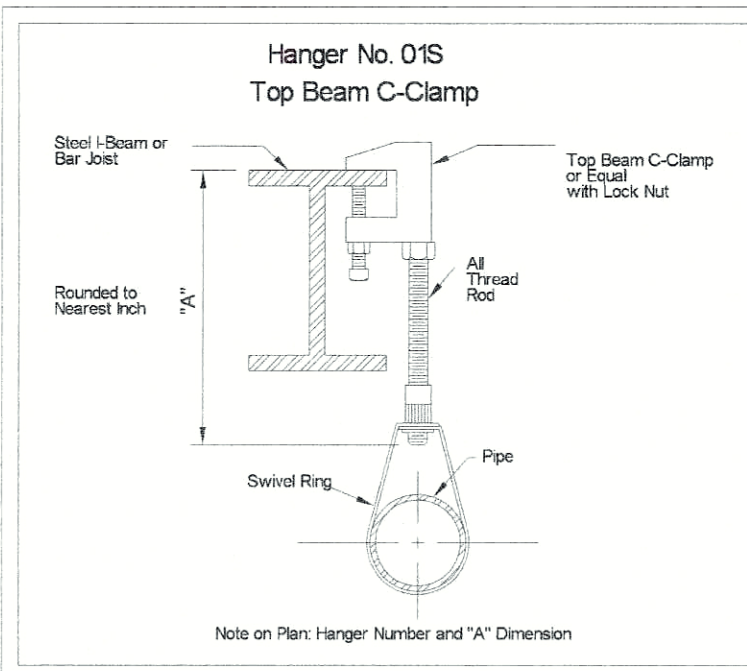
SITE PLAN & UNDERGROUND DETAIL



Supply Flow Test Data	
Test Conducted By	City of Lee's Summit
Test Witnessed By	Ryan McCormick
Date of Test	5/1/2024
Time of Test	2:00pm
Location	SE 3rd St & SE Johnson St
Static Pressure	80.000
Residual Pressure:	73.000
Flow	2000.00






















































Lee's Summit Fire Department
Lee's Summit, Missouri
10/23/2024

[illegible]

Hydraulic Information	
Remote Area OVERHEAD GRID	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft)	0.20 for 5500 ft ³ (Actual 5648 ft ³)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	16
K-FACTOR	8
TOTAL WATER REQUIRED	650.11
TOTAL PRESSURE REQUIRED	65.926
BASE OF RISER (gpm)	400.11
BASE OF RISER (psi)	64.533
SAFETY MARGIN (psi)	+13.169 (96.7%)

Hydraulic Information	
Remote Area CATERING / KITCHEN	
OCCUPANCY CLASSIFICATION	Ordinary Group I
DENSITY (gpm/ft ²)	0.5 for ≤500 ft ² (Actual 547 ft ²)
TOTAL HOSE STREAMS	250.00
TOTAL HEADS FLOWING	17
K-FACTOR	5.6
TOTAL WATER REQUIRED	640.13
TOTAL PRESSURE REQUIRED	57.222
BASE OF RISER (gpm)	380.13
BASE OF RISER (psi)	55.913
SAFETY MARGIN (psi)	+21527 (27.7%)

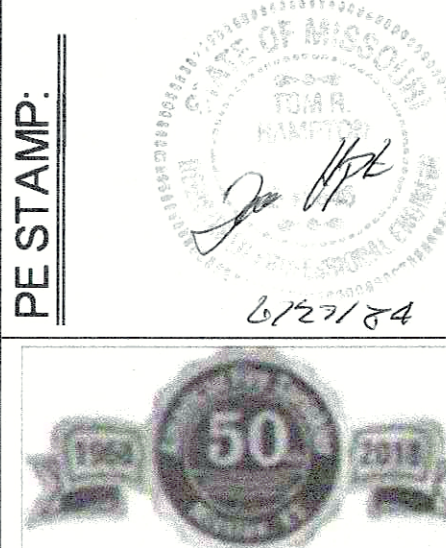
1	UPDATED SYSTEM IN MARKET AREA TO ORDINARY HAZARD GROUP 2 OCCUPANCY	DATE: 06-1-2024
<p>REVISIONS:</p>		

Symbol	Description	1	UPDATED SYSTEM INHALE / AREA TO DOWNGRADE HAZARD OCCUPANCY	06/12/2021
	Hydraulic Reference Points			
	Flow: Top of Stand			
	Flow: Above Stand			
	Flow: Below Stand			
	Flow: Top of Stand			
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LEE'S SUMMIT FARMERS MARKET

209 SE GREEN ST
LEE'S SUMMIT MO 64063

PE STAMP:



AMERICAN
FIRE SPRINKLER

POE. 6750 W. 47TH TERR. MISSION, KS. 66203
MAIL. P.O. BOX 568 MISSION, KS. 66201-0568
913/724-8800

TECTION SYSTEMS • CONSULTANTS • DESIGN
FABRICATION • SALES • SERVICE

PAY ITEM:	SPR
REVIEWING AUTHORITY :	
OWNER / LEE'S SUMMIT, MO	
ALL HEADS THIS SHEET:	176
TOTAL HEADS THIS JOB:	176
DRAWN BY: JONATHAN THOMPSON	
DATE :	05-07-2024
REVISION DATE :	06-17-2024
SCALE:	AS SHOWN
CONTRACT #	4353CH
DWG #:	

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