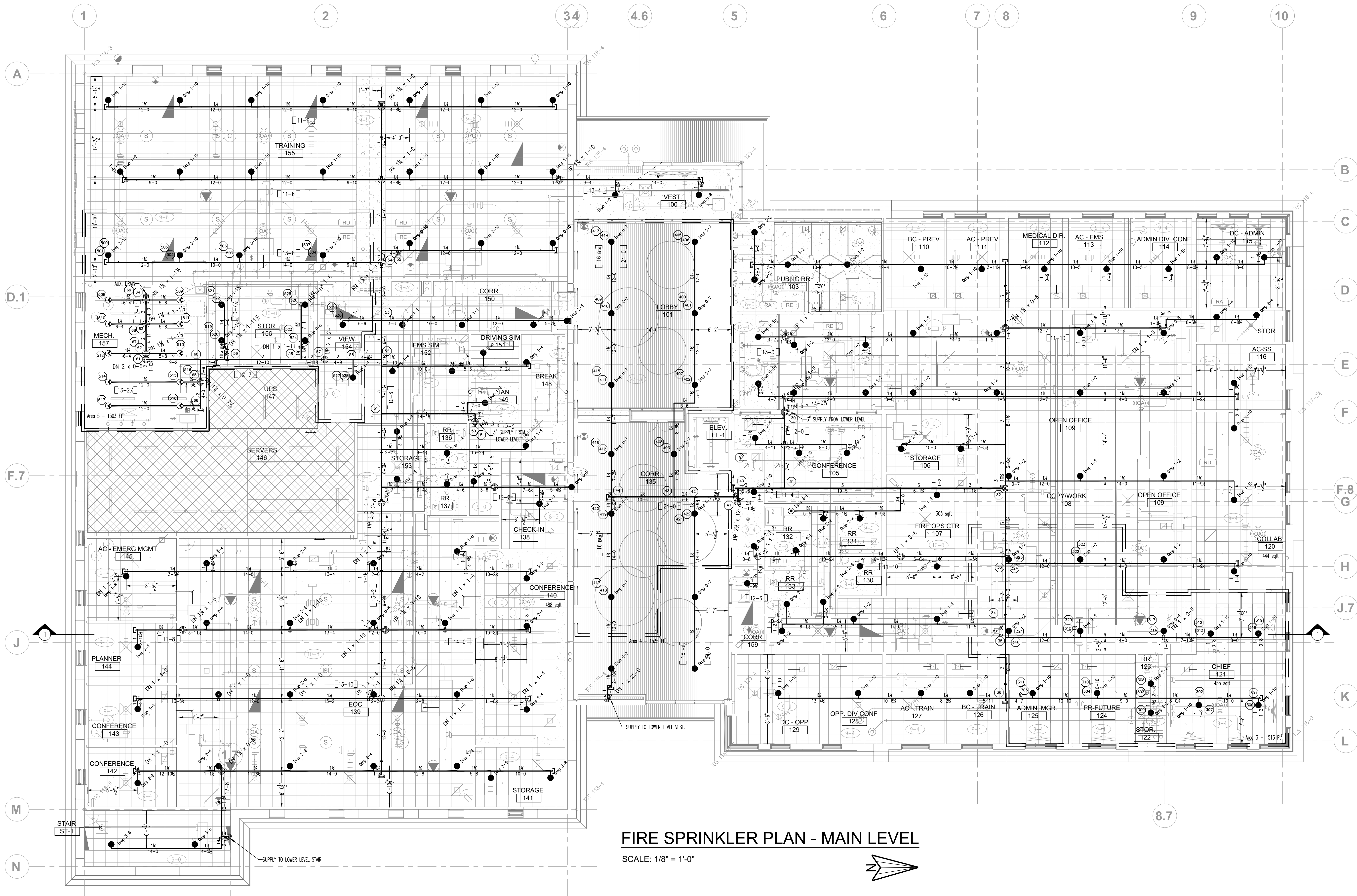
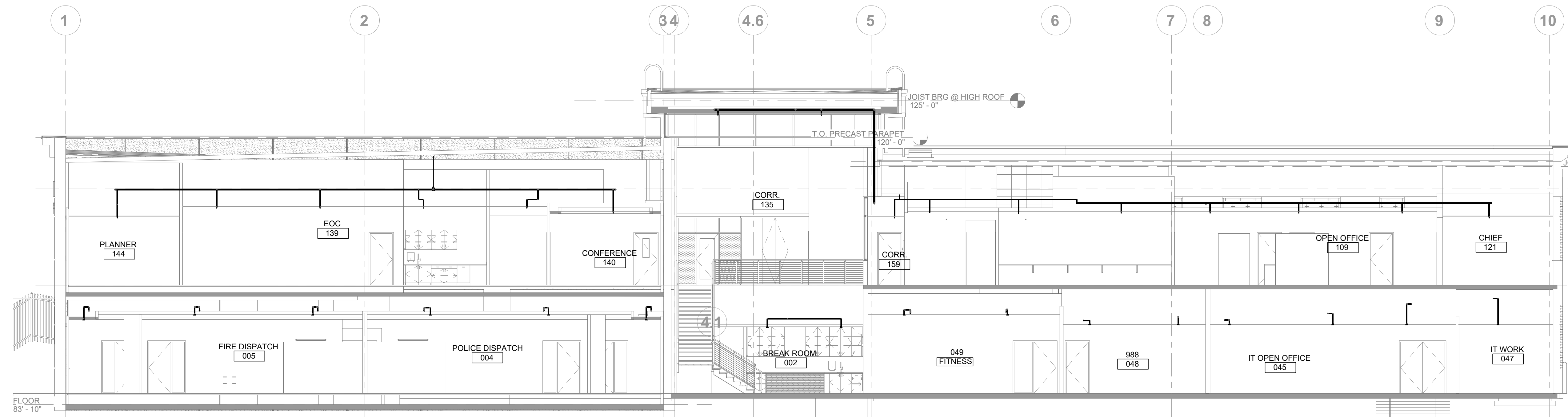
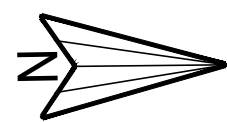




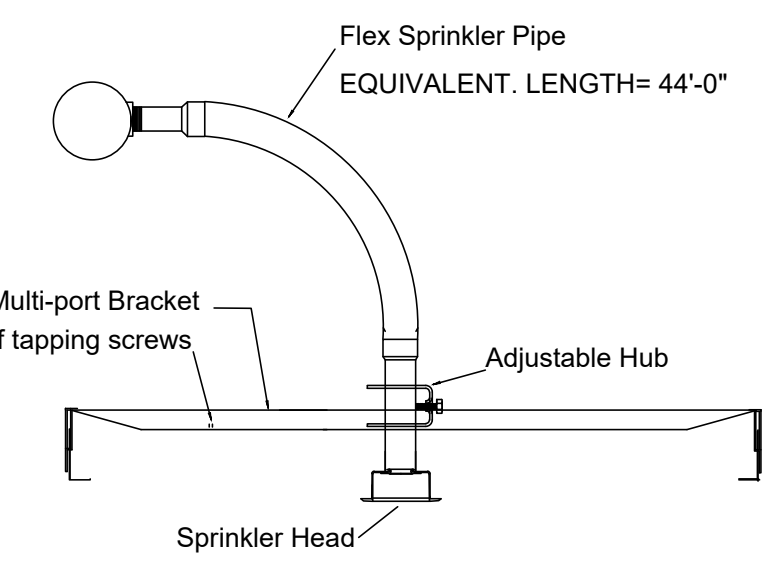
FIRE SPRINKLER PLAN - MAIN LEVEL

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

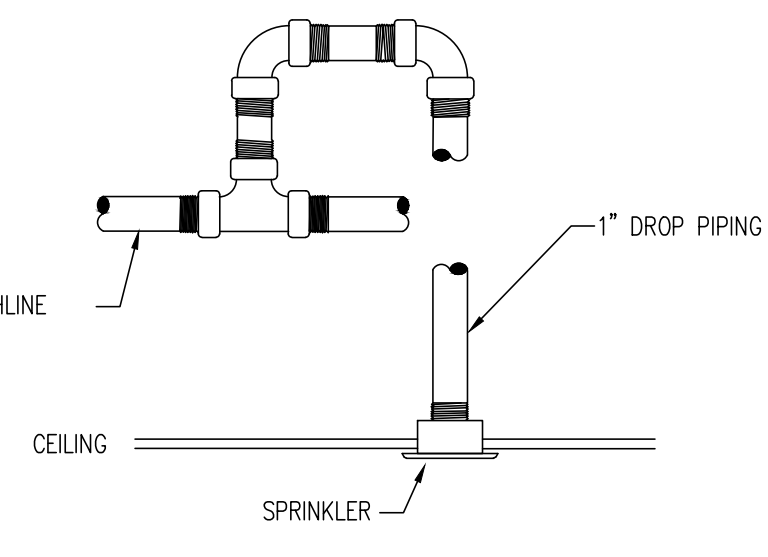


FIRE SPRINKLER PLAN - SECTION 1

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



TYPICAL INSTALLATION - STANDARD COVERAGE SPRINKLER



TYPICAL INSTALLATION - EXTENDED COVERAGE SPRINKLER

Hydraulic Calculation Data

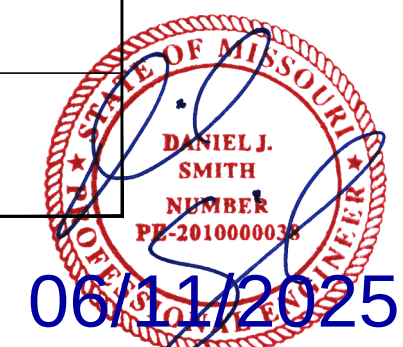
Design Area Number: 3
Design Area Location: Main Level - North
Hazard/Occupancy: Light
Design Density: 0.1 gpm/ft²
Design Area: 1500
Number of Sprinklers in Design Area: 13
Flow: 275.80 gpm at node BR1
Pressure: 63.06 psi at node BR1
Hose Allowance: 100 gpm
Safety Margin: 21.06 psi

Hydraulic Calculation Data

Design Area Number: 4
Design Area Location: Lobby
Hazard/Occupancy: Light
Design Density: 0.1 gpm/ft²
Design Area: 1500
Number of Sprinklers in Design Area: 11
Flow: 237.27 gpm at node BR1
Pressure: 66.58 psi at node BR1
Hose Allowance: 100 gpm
Safety Margin: 18.13 psi

Hydraulic Calculation Data

Design Area Number: 5
Design Area Location: Main Level - South Mech
Hazard/Occupancy: Light
Design Density: 0.15 gpm/ft²
Design Area: 1500
Number of Sprinklers in Design Area: 20
Flow: 364.97 gpm at node BR1
Pressure: 58.80 psi at node BR1
Hose Allowance: 250 gpm
Safety Margin: 21.47 psi

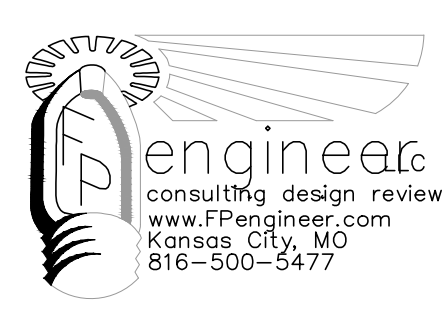


GENERAL NOTES:

- CONSTRUCTION: MIXED TYPE III B
- OCCUPANCY: A-3 ASSEMBLY
B - BUSINESS
- SEISMIC DESIGN - CATEGORY A
- SCOPE - INSTALL NEW HYDRAULIC CALCULATED WET SYSTEM & DOUBLE INTERLOCK PRE-ACTION SYSTEM PER NFPA 13 2016 & IBC 2018. ALL NEW PIPING TO BE HYDROSTATICALLY TESTED FOR 2 HRS. IN ACCORDANCE WITH NFPA
- DESIGN - NEW WET & DRY PRE-ACTION SYSTEMS HYDRAULICALLY CALCULATED, PER NFPA 13-2016, SEE PLAN FOR HYDRAULIC SUMMARY.
- LIGHT HAZARD :
.10 GPM/SF WITH A DESIGN AREA OF 1500 SF & A HOSE ALLOWANCE OF 100 GPM
- (H) ORDINARY HAZARD I:
.15 GPM/SF WITH A DESIGN AREA OF 1500 SF & A HOSE ALLOWANCE OF 250 GPM
MISC STORAGE OF MODERATE COMBUSTIBLES LIMIT TO 8'-0" HIGH
- MATERIALS - ALL MATERIAL, PIPES AND HANGERS TO BE IN ACCORDANCE WITH NFPA 13
ALL THREADED PIPE TO BE BLK STEEL SCH. 40 & ALL GROOVED PIPE TO BE BLK STEEL SCH. 10 (1 1/4" & LARGER SCH 10), ALL FITTINGS TO BE DUCTILE IRON
SCREWED/CAST IRON GROOVED, HANGERS SHALL BE SPACED IN ACCORDANCE WITH NFPA 13
- SPECIAL INSTRUCTIONS - SPRINKLER ARE TO BE PLACED CENTER OF TILE/QUARTER POINT.
IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE ADEQUATE HEAT (40°F) TO PREVENT SYSTEM FROM FREEZING IN WET PIPE AREA.
FIRE EXTINGUISHERS AND CABINETS BY OTHERS. ELECTRICAL WIRING BY OTHERS. ALARM CONNECTIONS BY OTHER. ALL CONTROL VALVES TO BE EQUIPPED WITH TAMPER SWITCHES, TAMPER & FLOW SWITCHES TO BE WIRED TO ALARM PANEL PER NFPA 72.

Sprinkler Head Schedule					
Symbol	Count	Thread	K-Factor	SIN	Description
●	1	3/4"	8.0	17/32 QR 200 B UP	ON SPRIG
●	1	1/2"	5.6	1/2 QR 200 B PD	ON SPRIG
●	158	1/2"	5.6	1/2 QR 155 B CC	ON DROP
158 = Total Number of Heads This Floor					

REV	DATE	DESCRIPTION



Century Fire Sprinklers, Inc.
1901 Bedford Ave,
North Kansas City, MO 64116

CONTRACT NUMBER
KC1-1508

LEE'S SUMMIT JOINT OPERATIONS FACILITY
ADDRESS
2 NE TUDOR RD
LEE'S SUMMIT, MO. 64086
OWNER
CONTRACT WITH

DRAWN BY
D.J.S.

SCALE
1/8" = 1'-0"

DATE
05-07-2025

SHEET NUMBER
FP2 OF 2