DOC



## A SPRINKLER MONITORING SYSTEM SUBMITTAL

RELEASED FOR CONSTRUCTION Lee's Summit Fire Departmen Lee's Summit, Missouri 03/31/2025

(ACE-11), RED WITH CUSTOM LOGO

# H & E EQUIPMENT SERVICES #4186

1100 SW HAMBLEN RD LEE'S SUMMIT, MO 64081

#### SCOPE OF WORK

- INSTALLATION OF A NEW POTTER SPRINKLER MONITORING SYSTEM TO REPLACE THE CURRENT SPRINKLER MONITORING SYSTEM LOCATED IN AN EXISTING COMMERCIAL BUSINESS
- PURPOSE OF THE INSTALLATION IS TO REPLACE OBSOLETE FIRE ALARM EQUIPMENT.
- ALL SIGNALS TRANSMITTED VIA SOLE PATH CELL UNIT IN
- COMPLIANCE WITH NFPA 72. ALL DEVICES TO BE TESTED IN COMPLIANCE WITH NFPA 72.

## GENERAL NOTES

- SOLE PATH CELLULAR COMMUNICATOR INSTALLATION AND SIGNAL VERIFICATION TO BE PERFORMED ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
- SOLE PATH CELLULAR SIGNAL STRENGTH SHALL MEET MANUFACTURERS MINIMUM REQUIREMENTS.
- ALL WORK PERFORMED IN THE FIELD SHALL BE ACCURATELY RECORDED AND AVAILABLE FOR FINAL INSPECTION.
- SYSTEM HAS A SURVIVABILITY LEVEL OF 0 PER NFPA 72.
- 5. SYSTEM SHALL BE MONITORED BY UL LISTED CENTRAL STATION.

### - MONITORING NOTES -

ADT COMMERCIAL 4221 W. JOHN CARPENTER FWY. IRVING, TEXAS 75063

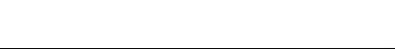
THE ALARM SERVICE COMPANY IS UL LISTED IN THE FOLLOWING CERTIFICATE SERVICE CATEGORIES:

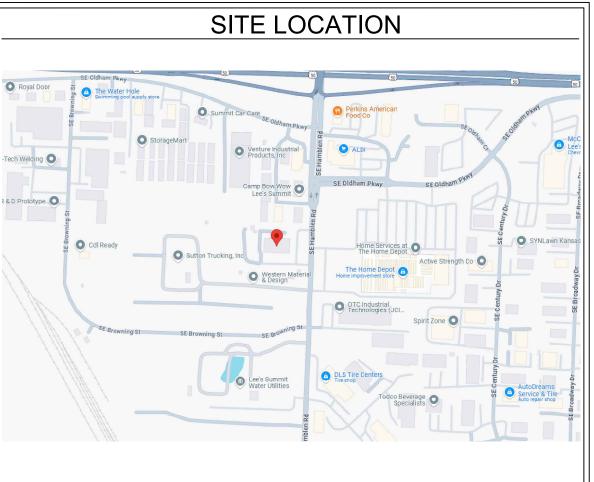
#### FILE\_VOL NO CON LISTING CATEGORY

l	FILE-VOL NO.	CCN	LISTING CATEGORY
	S2684-20	UUFX	[SIGNAL AND FIRE ALARM EQUIPMENT AND
			SERVICES]
			(PROTECTIVE SIGNALING SERVICES) CENTRAL
			STATION
	BP1790-3	CPVX	[BURGLAR ALARMS SYSTEMS] CENTRAL
			STATION
	BP10566-1	CZRM	MONITORING STATIONS, NATIONAL
			INDUSTRIAL SECURITY

ALARM SERVICE COMPANY: (567560) PARTY SITE NO: (567560)

THIS CERTIFICATE EXPIRES ON 31-DEC-2024 IRVING, TX

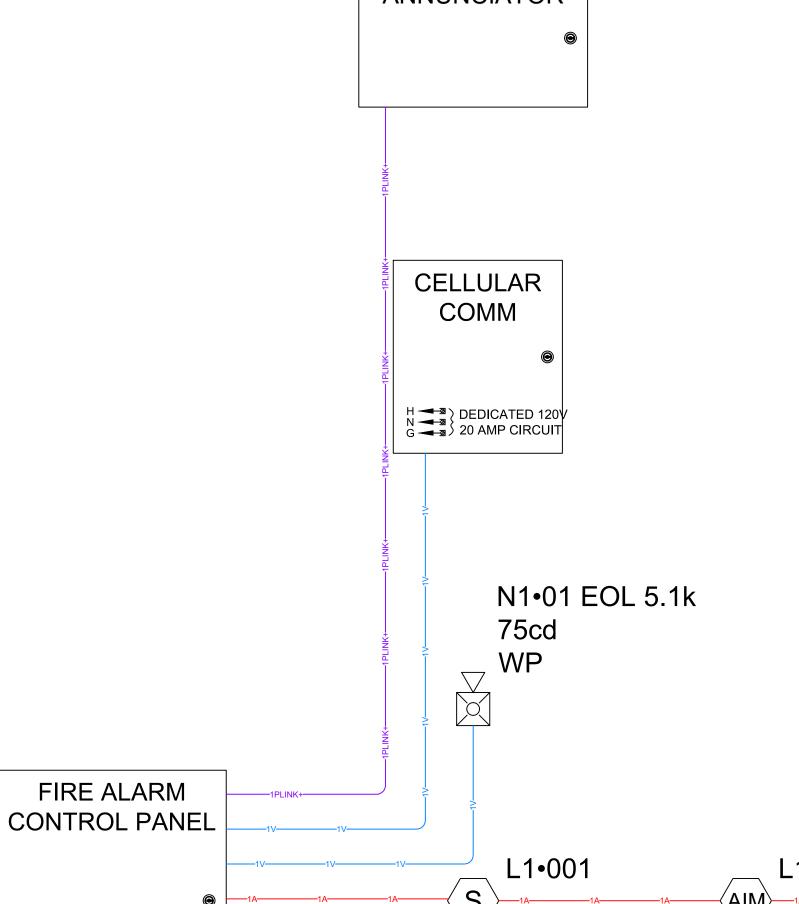




### - COMMUNICATOR NOTE -

NFPA 72 REQUIRES THAT ANY FIRE COMMUNICATOR TROUBLE BE LOCALLY ANNUNCIATED BY THE FIRE PANEL WITHIN 200 SECONDS OF THE TROUBLE. THE TROUBLES INCLUDE LOSS OF SIGNAL, NOC SUPERVISION CHECKING FAILURE ETC. THE STARLINK SLE-LTEV-FIRE FIRE COMMUNICATOR MODELS INCLUDE A COMMUNICATOR TO ANNUNCIATE A COMMUNICATION TROUBLE WITHOUT THE NEED FOR WIRING TO AN FACU ZONE INPUT OR ANY FACU REPROGRAMMING. THIS IS ACCOMPLISHED BY DROPPING THE EMULATED PHONE LINE VOLTAGE TO THE FACU SECONDARY PHONE LINE. CAUSING THE FACU TO ANNUNCIATE A COMMUNICATION TROUBLE. TO ENABLE SELF-SUPERVISION. SIMPLY REMOVE JUMPER JP2. NOTE THAT WHEN USING SELF-SUPE REQUIRE THE JUMPER J7 SHUNT TO BE REMOVED LINE TO RESTORE CORRECTLY. TO ALSO REPORT TO THE CENTRAL STATION, ENABLE THE FEATURE

JUMPER JP2. NOTE THAT WHEN USING SELF-SUPERVIS   REQUIRE THE JUMPER J7 SHUNT TO BE REMOVED FOR   LINE TO RESTORE CORRECTLY. TO ALSO REPORT A C	R THÉ PRIMARY PHONE		
TO THE CENTRAL STATION, ENABLE THE FEATURE "TIP REPORT" IN THE ADVANCED TAB IN THE STARLINK NO			S`
		P-LINK•1	F
	ANNUNCIATOR		



RISER DIAGRAM

**ELECTRONICS** 

SYMBOL LEGEND

SSU00690

CABLE AND WIRE LEGEND									
LABEL	LABEL PART NO		AWG	DESCRIPTION					
Α	16/2 FPLR (SLC)	4.890	16	2 COND. SOLID COPPER FPLR ADDRESSABLE					
PLINK+	18/4 FPLP/R (P-LINK/PWR)		18	4 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED					
V	14/2 FPLP/R (NAC)	3.070	14	2 COND. SOLID COPPER FPLP/R ANALOG UNSHIELDED					

**DEVICE LEGEND** 

SYMBOL	QUANTITY	IS EXISTING	MANUFACTURER	PART NO	DESCRIPTION
FACU	1	NEW	POTTER	AFC-100	FIRE ALARM CONTROL PANEL
FAA	1	NEW	POTTER	RA-6500	160 CHARACTER LCD ANNUNCIATOR
CELL	1	NEW	NAPCO	SLE-MAX2-CFBPS	UNIVERSAL FIRE COMMUNICATOR, DUAL SIM, DUAL PATH, DIRECT AC POWER 120VAC METAL HOUSING W/ PROVISION FOR PLUG-IN TRF12 XFORMER, 16VAC, 20VA (W/ PROVISION FOR BACKUP BATTERY)
<b>(AIM)</b>	2	NEW	POTTER	PAD100-MIM	MICRO INPUT MODULE
F	1	NEW	POTTER	PAD100-PSSA	ADDRESSABLE PULL STATION SINGLE ACTION
⟨s⟩	1	NEW	POTTER	PAD200-PD	PHOTOELECTRIC SMOKE SENSOR
WF	1	EXISTING	GENERIC	WATERFLOW SWITCH	WATERFLOW SWITCH
VS	1	EXISTING	GENERIC	VALVE TAMPER SUPERVISORY SWITCH	VALVE TAMPER SUPERVISORY SWITCH
₩P	1	NEW	POTTER	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED
DOC	1	NEW	SPACE AGE	SSU00690	FIRE ALARM DOCUMENT CABINET W/8GB USB DRIVE

D. BARROI

CODES ADOPTED BY LOCAL AHJ

BUILDING INFORMATION

ever n

BRANCH #66711

15441 W 100th TERRACE.

LENEXA, KS 66219

844-538-3766 **NEB: EVERONSOLUTIONS.CO** 

**H&E EQUIPMENT** 

1100 SW HAMBLEN RD

LEE'S SUMMIT, MO 6408

**SPRINKLER** 

**MONITORING** 

SYSTEM

for equipment application only. The

information contained herein is intended

to aid in the installation of this system. N design changes have been made to the

engineer of record's contract documents

Tara Carroll, ET Ohio #6387

NICET LEVEL III FIRE ALARM SYSTEMS

**CENTRAL STATION LISTING** CCN File No. Vol. No.

UUFX S2684 20

REVISIONS

REVISION

NO. DATE

1 BY: \_\_\_

BY: \_\_\_

3 BY: \_\_\_

<u>S</u> BY: \_\_\_

2015 IFC

2013 NFPA 72

T. CARROL CHECKED BY: 10/28/2024 DESIGN REQUEST #: 98380 SALES AGREEMENT #:89193714 JOB #:300118734

> TITLE: COVER SHEET NOTES/LEGENDS **OPS MATRIX** RISER DIAGRAM

FA-0

© 2024 Everon Solutions. All rights reserved. The product/service names listed in this document are marks and/or registered marks of their respective owners and used under license. Unauthorized use strictly prohibited.

			(AF	PANEL C-100) BATTERY CALCULAT	ΓΙΟΝ			
				ARY POWER SOURCE REQUI				
			,		STANDBY C	URRENT	SECONDARY ALA	RM CURRENT
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A
PANEL COI	MPONENTS	1	AFC-100	FIRE ALARM CONTROL PANEL	0.000	0.000	0.000	0.000
		1	AFC-100 MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD	0.130	0.130	0.200	0.200
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A
	(AIM)	2	PAD100-MIM	MICRO INPUT MODULE	0.0002	0.000	0.0002	0.000
L1	F	1	PAD100-PSSA	ADDRESSABLE PULL STATION SINGLE ACTION	0.0002	0.000	0.0002	0.000
	<b>S</b>	1	PAD200-PD	PHOTOELECTRIC SMOKE SENSOR	0.0003	0.000	0.0003	0.000
N1	₩P	1	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0.000	0.000	0.168	0.168
P-LINK	FAA	1	RA-6500	160 CHARACTER LCD ANNUNCIATOR	0.020	0.020	0.025	0.025
					TOTAL STANDBY (A)	0.151	TOTAL ALARM (A)	0.394
					REQUIRED STANDB	,	24	
					REQUIRED ALARM		5	
		ANDBY LOAD (A)		0.151	24.000 3.622			
		LARM LOAD (A)		0.394	0.083		0.03	3
	STANDBY AND ALARM S	,					3.654	
	DERATING SECONDARY LOAD REQU		1				1.250 4.568	
	OLOONDAINT LOAD REQU	VILLIVIENTO (AIVIE HOURO)		_lI ROVIDE (2) 12V 8AH BATTERI	FS .		4.J00	

			(SLE-MA	PANEL AX2-CFBPS) BATTERY CALC	ULATION				
				ARY POWER SOURCE REQUI					
					STANDBY CURRENT		SECONDARY ALA	RM CURRENT	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A	
PANEL COMPONENTS	1	SLE-MAX2-CFBPS	UNIVERSAL FIRE COMMUNICATOR, DUAL SIM, DUAL PATH, DIRECT AC POWER 120VAC METAL HOUSING W/ PROVISION FOR PLUG-IN TRF12 XFORMER, 16VAC, 20VA (W/ PROVISION FOR BACKUP BATTERY)	0.000	0.000	0.000	0.000		
		1	SLE-MAX2-CFBPS MAIN BOARD		0.200	0.200	0.200	0.200	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A	
	•	•	•		TOTAL STANDBY (A)	0.200	TOTAL ALARM (A)	0.200	
					REQUIRED STANDE	Y TIME (HOURS)	24		
					REQUIRED ALARM	TIME (MINUTES)	5		
	SECONDARY ST	ANDBY LOAD (A)		0.200	24.000		4.80	4.800	
	SECONDARY A	LARM LOAD (A)		0.200			0.01		
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					4.817				
DERATING FACTOR					1.250				
	SECONDARY LOAD REQU	JIREMENTS (AMP HOUR	S)				6.021		
			Р	ROVIDE (1) 12V 7AH BATTER	Y				

BATTERY CALCULATIONS

			CIRCUIT SETTINGS		TOTA	ALS
			STARTING CALCULATION VOLTAGE:	20.400	MAX. VOLTAGE DROP:	0.04
			STARTING CALCULATION VOLTAGE:	20.400	VOLTAGE DROP %:	0.21 %
			MIN. OPERATIONAL VOLTAGE:	16	END OF LINE VOLTAGE:	20.36
				3	TOTAL CIRCUIT CURRENT (A):	0.168
	N1 LUMP SU	M REPORT	MAX. CIRCUIT CURRENT (A):		SPARE CIRCUIT CURRENT (A):	2.832
					SPARE CIRCUIT CURRENT %:	94.40 %
			WIRE RESISTANCE (Ω/KFT):	3.070	TOTAL CIRCUIT LENGTH (FT):	41
			WINE REGISTANCE (22/11/17).		TOTAL CIRCUIT RESISTANCE (Ω):	0.250754
		CIRCUIT WIRING PRO	PERTIES: 'V' 14/2 FPLP/R (NAC) 14 AWG, 2 COND. SOLID COPPER	R FPLP/R ANALOG UNSHI	ELDED	
		DISTANCE MEASU	JRED USING DRAWN SEGMENT LENGTHS WITH 10.00 % ADDITIO	NAL LENGTH CALCULATE		
SYMBOL	QUANTITY	PART NO	DESCRIPTION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
MP 1 HS-24WR-WP			OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED	75CD	0.168	0.168
CALCULATION M	ETHODS:					
TOTAL RESISTAN	ICE $(\Omega)$ = WIRE RES	ISTANCE ( $\Omega$ /FT) X 2 X TOTAL CIRC	UIT LENGTH (FT)			
TOTAL VOLTAGE	DROP = TOTAL RE	SISTANCE ( $\Omega$ ) X TOTAL CIRCUIT CI	JRRENT (A)			

VOLTAGE DROP CALCULATIONS

ever On \*\*

BRANCH #66711 15441 W 100th TERRACE, LENEXA, KS 66219

844-538-3766 WEB: EVERONSOLUTIONS.COM

H&E EQUIPMENT
1100 SW HAMBLEN RD
LEE'S SUMMIT, MO 64081

SPRINKLER MONITORING SYSTEM

This fire alarm shop drawing was prepared for equipment application only. The information contained herein is intended to aid in the installation of this system. No design changes have been made to the engineer of record's contract documents.

Dated: 10/28/24

Signed: 10/28/24

Tara Carroll, ET Ohio #6387

NICET #: 142654

NICET LEVEL III

FIRE ALARM SYSTEMS

CENTRAL STATION LISTING
CCN File No. Vol. No.
UUFX S2684 20

REVISIONS

NO. DATE REVISION

A 10/28/24
BY: DB - FOR PERMIT

BY: \_\_\_ -

CODES ADOPTED BY LOCAL AHJ
2014 NEC
2015 IBC
2015 IFC
2013 NFPA 72

BUILDING INFORMATION

OCCUPANCY TYPE = M/S-1

TOTAL AREA = 14,887 SF (APPROX)

ONE STORY

FULLY-SPRINKLERED

PREPARED BY: D. BARRON
CHECKED BY: T. CARROLI
DATE: 10/28/2024

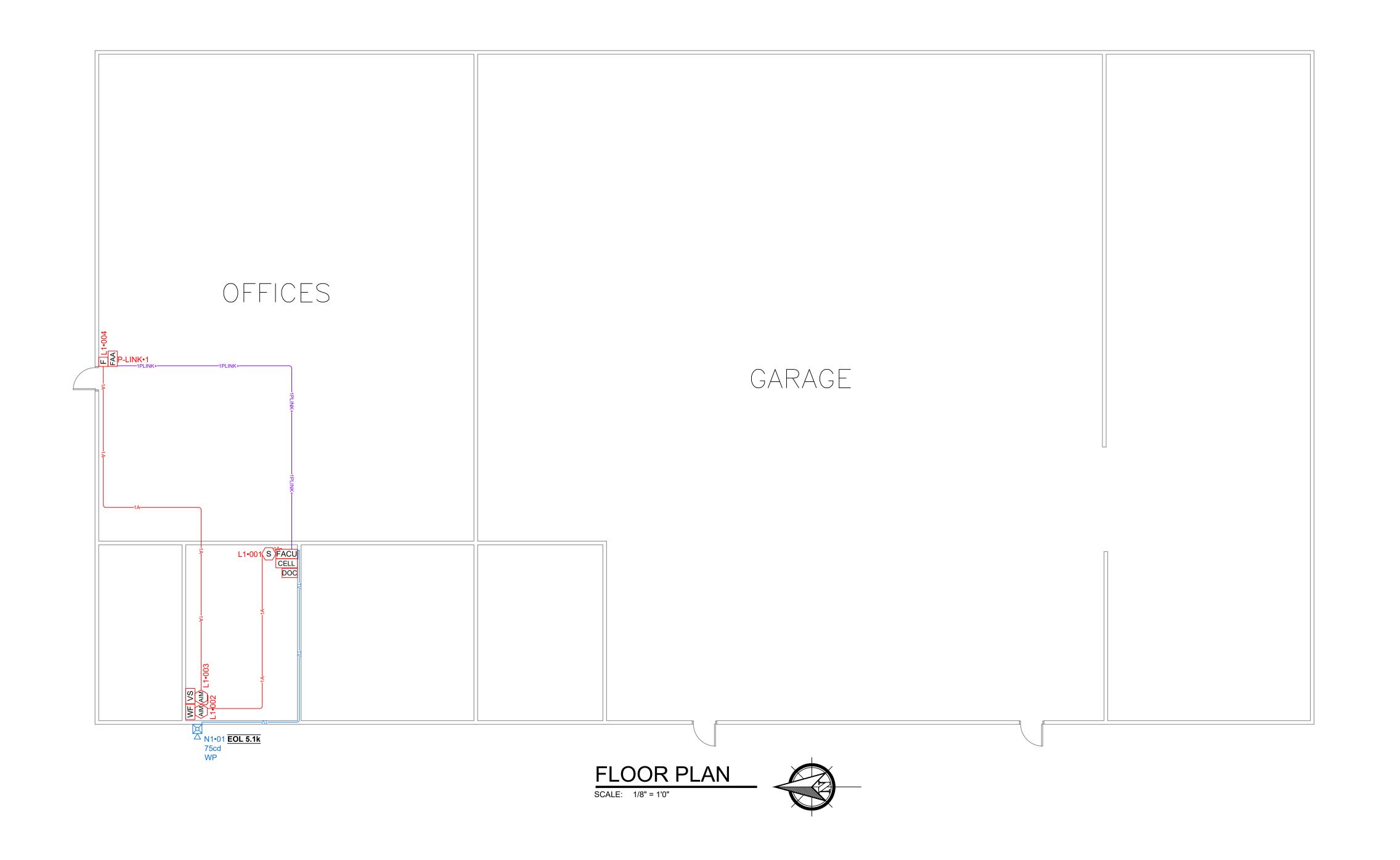
DESIGN REQUEST #:98380 SALES AGREEMENT #:891937147 JOB #:300118734

CALCULATIONS

TITLE:

SHEET

FA-1



ever on™

BRANCH #66711 15441 W 100th TERRACE, LENEXA, KS 66219

844-538-3766 WEB: EVERONSOLUTIONS.COM

**H&E EQUIPMENT** 1100 SW HAMBLEN RD LEE'S SUMMIT, MO 64081

> SPRINKLER MONITORING SYSTEM

This fire alarm shop drawing was prepared for equipment application only. The information contained herein is intended to aid in the installation of this system. No design changes have been made to the engineer of record's contract documents. Dated: 10/28/24
Signed: La Sudd
Tara Carroll, ET Ohio #6387
NICET #: 142654
NICET LEVEL III
FIRE ALARM SYSTEMS

CENTRAL STATION LISTING
CCN File No. Vol. No.
UUFX S2684 20 REVISIONS NO. DATE REVISION 10/28/24 - FOR PERMIT <u>A</u> BY: \_\_\_ <u>A</u> BY: \_\_\_ <u></u> BY: \_\_\_

BY: \_\_\_ CODES ADOPTED BY LOCAL AHJ 2015 IFC

BY: \_\_\_

2013 NFPA 72

BUILDING INFORMATION

PREPARED BY: D. BARRON T. CARROLI CHECKED BY: 10/28/2024

DESIGN REQUEST #: 98380 SALES AGREEMENT #:89193714

JOB #:300118734

**FLOORPLAN** 

FA-2