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A SPRINKLER MONITORING SYSTEM SUBMITTAL

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- COMMUNICATOR NOTE -

SCOPE OF WORK

STARLINK FIRE SELF-SUPERVISION INSTALLATION OF A NEW POTTER SPRINKLER MONITORING NFPA 72 REQUIRES THAT ANY FIRE COMMUNICATOR TROUBLE BE LOCALLY SYSTEM TO REPLACE THE CURRENT SPRINKLER MONITORING ANNUNCIATED BY THE FIRE PANEL WITHIN 200 SECONDS OF THE TROUBLE. TH SYSTEM LOCATED IN AN EXISTING COMMERCIAL BUSINESS TROUBLES INCLUDE LOSS OF SIGNAL, NOC SUPERVISION CHECKING FAILURE ETC. THE STARLINK SLE-LTEV-FIRE FIRE COMMUNICATOR MODELS INCLUDE A SPACE. "SELF-SUPERVISING FIRE COMMUNICATOR" FEATURE THAT ALLOWS THE PURPOSE OF THE INSTALLATION IS TO REPLACE OBSOLETE COMMUNICATOR TO ANNUNCIATE A COMMUNICATION TROUBLE WITHOUT TH NEED FOR WIRING TO AN FACU ZONE INPUT OR ANY FACU REPROGRAMMING. FIRE ALARM EQUIPMENT. THIS IS ACCOMPLISHED BY DROPPING THE EMULATED PHONE LINE VOLTAGE ALL SIGNALS TRANSMITTED VIA SOLE PATH CELL UNIT IN TO THE FACU SECONDARY PHONE LINE. CAUSING THE FACU TO ANNUNCIATE COMPLIANCE WITH NFPA 72. COMMUNICATION TROUBLE. TO ENABLE SELF-SUPERVISION, SIMPLY REMOVE JUMPER JP2. NOTE THAT WHEN USING SELF-SUPERVISION. SOME FACUS MAY ALL DEVICES TO BE TESTED IN COMPLIANCE WITH NFPA 72. REQUIRE THE JUMPER J7 SHUNT TO BE REMOVED FOR THE PRIMARY PHONE LINE TO RESTORE CORRECTLY. TO ALSO REPORT A COMMUNICATOR TROUBLE TO THE CENTRAL STATION. ENABLE THE FEATURE "TIP/RING WIRING FAULT REPORT" IN THE ADVANCED TAB IN THE STARLINK NOC. **GENERAL NOTES** SOLE PATH CELLULAR COMMUNICATOR INSTALLATION AND ANNUNCIATO 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 CELLULAR 4221 W. JOHN CARPENTER FWY. COMM IRVING, TEXAS 75063 THE ALARM SERVICE COMPANY IS UL LISTED IN THE FOLLOWING CERTIFICATE SERVICE CATEGORIES: FILE-VOL NO. CCN LISTING CATEGORY UUFX [SIGNAL AND FIRE ALARM EQUIPMENT AND S2684-20 SERVICES] (PROTECTIVE SIGNALING SERVICES) CENTRAL STATION BP1790-3 CPVX [BURGLAR ALARMS SYSTEMS] CENTRAL STATION CZRM MONITORING STATIONS, NATIONAL BP10566-1 N1 INDUSTRIAL SECURITY 750 THIS CERTIFICATE EXPIRES ON 31-DEC-2024 IRVING, TX WF ALARM SERVICE COMPANY: (567560) PARTY SITE NO: (567560) FIRE ALARM **CONTROL PANEL** SITE LOCATION $\langle S \rangle$

Home Services at O OTC Industrial Technologies (JC Spirit Zone 🔘 Lee's Summit Water Utilities



H & E EQUIPMENT SERVICES #4186

1100 SW HAMBLEN RD LEE'S SUMMIT, MO 64081

	-					
		LABEL	PART NO	MFT	AWG	DESCRIPTION
		А	16/2 FPLR (SLC)	4.890	16 2 CO	ND. SOLID COPPER FPLR ADDRESSABLE
	_	PLINK+	18/4 FPLP/R (P-LINK/PWR)	7.770	18 4 COND. S	SOLID COPPER FPLP/R ANALOG UNSHIELDED
		V	14/2 FPLP/R (NAC)	3.070	14 2 COND. S	SOLID COPPER FPLP/R ANALOG UNSHIELDED
				DEVIC	CELEGEND	
	SYMB	OL QUANTI	ITY IS EXISTING	MANUFACTURER	PART NO	DESCRIPTION
P-LINK•1	FAC	J 1	NEW	POTTER	AFC-100	FIRE ALARM CONTROL PANEL
DR ®	FAA	.] 1	NEW	POTTER	RA-6500	160 CHARACTER LCD ANNUNCIATOR
	CELI	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)
	AIM	2	NEW	POTTER	PAD100-MIM	MICRO INPUT MODULE
	F	1	NEW	POTTER	PAD100-PSSA	ADDRESSABLE PULL STATION SINGLE ACTION
	$\langle s \rangle$	> 1	NEW	POTTER	PAD200-PD	PHOTOELECTRIC SMOKE SENSOR
120V	WF] 1	EXISTING	GENERIC	WATERFLOW SWITCH	WATERFLOW SWITCH
	VS] 1	EXISTING	GENERIC	VALVE TAMPER SUPERVISORY SWITCH	VALVE TAMPER SUPERVISORY SWITCH
	∑ M	/P 1	NEW	POTTER	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED
•01 EOL 5.1k cd	DOC	3 1	NEW	SPACE AGE ELECTRONICS	SSU00690	FIRE ALARM DOCUMENT CABINET W/8GB USB DRIVE (ACE-11), RED WITH CUSTOM LOGO

RISER DIAGRAM

SYMBOL LEGEND

CENTRAL STATION LISTING CCN File No. Vol. No.					
UUFX S2684 20 REVISIONS					
1 0.	DATE	REVISION			
Δ	10/28/24 BY: DB	- FOR PERMIT			
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COI 014 N 015 II 015 II 013 N	CODES ADOPTED BY LOCAL AHJ)14 NEC)15 IBC)15 IFC)13 NFPA 72				
BUILDING INFORMATION OCCUPANCY TYPE = M/S-1 TOTAL AREA = 14,887 SF (APPROX)					
ONE STORY FULLY-SPRINKLERED					
REP.	REPARED BY: D. BARRON				
HEC	CKED BY:	T. CARROLL			
ATE	:	10/28/2024			
i Sale	DESIGN REC S AGREEME JOB #:3	QUEST #:98380 INT #:891937147 00118734			
I ^{TLE:} COVER SHEET NOTES/LEGENDS OPS MATRIX RISER DIAGRAM					
HEET:					
FA-0					

1 of 3

everOn

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

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

H&E EQUIPMENT

1100 SW HAMBLEN RD

LEE'S SUMMIT, MO 6408

SPRINKLER

MONITORING

SYSTEM

This fire alarm shop drawing was prepare

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

Signed Ma Laud

Tara Carroll, ET Ohio #6387

NICET #: 142654

NICET LEVEL III FIRE ALARM SYSTEMS

for equipment application only. The

				PANEL				
				C-100) BATTERY CALCULA				
			(SECOND/		STANDBY	CURRENT	SECONDARY AL	ARM C
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	
PANEL CO	OMPONENTS	1	AFC-100	FIRE ALARM CONTROL PANEL	0.000	0.000	0.000	
		1	AFC-100 MAIN BOARD	FIRE ALARM CONTROL PANEL MAIN BOARD	0.130	0.130	0.200	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	
	AIM	2	PAD100-MIM	MICRO INPUT MODULE	0.0002	0.000	0.0002	
L1	F	1	PAD100-PSSA	ADDRESSABLE PULL STATION SINGLE ACTION	0.0002	0.000	0.0002	
	$\langle s \rangle$	1	PAD200-PD	PHOTOELECTRIC SMOKE SENSOR	0.0003	0.000	0.0003	
N1	WP WP	1	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0.000	0.000	0.168	
P-LINK	FAA	1	RA-6500	160 CHARACTER LCD ANNUNCIATOR	0.020	0.020	0.025	
					TOTAL STANDBY (A)	0.151	TOTAL ALARM (A)	
					REQUIRED STAND	BY TIME (HOURS)	24	ł
					REQUIRED ALARM	1 TIME (MINUTES)	5	
	SECONDARY S	STANDBY LOAD (A)		0.151	24.0	000	3.6	22
				0.394	0.0	83	0.03	33
					3.054			
	SECONDARY LOAD REC				1.200			
			PF	L ROVIDE (2) 12V 8AH BATTERI	IES			
		*BATTE	RY BOX SIZE CAPACITY N	OT SPECIFIED. REFER TO M	ANUFACTURER DOCUMEN	ATION.		

				PANEL				
			(SLE-MA	X2-CFBPS) BATTERY CALC	ULATION			
			(SECONDA	RY POWER SOURCE REQUI	REMENTS)			
					STANDBY C	URRENT	SECONDARY AL	ARM CURRENT
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PANEL CO	MPONENTS	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	BY TIME (HOURS)	24	
					REQUIRED ALARM	TIME (MINUTES)	5	
	SECONDARY ST	ANDBY LOAD (A)		0.200	24.00	00	4.80	00
	SECONDARY A	LARM LOAD (A)		0.200	0.08	3	0.01	17
	STANDBY AND ALARM S	UBTOTAL (AMP HOURS)				2	1.817	
	DERATING	FACTOR				1	.250	
	SECONDARY LOAD REQU	IREMENTS (AMP HOURS)				6	5.021	
			PI	ROVIDE (1) 12V 7AH BATTER	Y			

BATTERY CALCULATIONS

ARM CURRENT
TOTAL (A)
0.000
0.200
TOTAL (A)
0.000
0.000
0.000
0.168
0.025
0.394
2
3

			STARTING CALCULATION VOLTAGE:
			MIN. OPERATIONAL VOLTAGE:
	N1 LUMP S	UM REPORT	MAX. CIRCUIT CURRENT (A):
			WIRE RESISTANCE (Ω/KFT):
		CIRCUIT WIRING P	ROPERTIES: 'V' 14/2 FPLP/R (NAC) 14 AWG, 2 COND. SOL
	-	DISTANCE MEA	SURED USING DRAWN SEGMENT LENGTHS WITH 10.00
SYMBOL	QUANTITY	PART NO	DESCRIPTION
WP	1	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, ST ENCLOSURE, RED
CALCULATION M	ETHODS:	1	
TOTAL RESISTAN	$CE(\Omega) = WIRE RE$	SISTANCE (Ω /FT) X 2 X TOTAL CI	RCUIT LENGTH (FT)
TOTAL VOLTAGE	DROP = TOTAL RE	ESISTANCE (Ω) X TOTAL CIRCUIT	CURRENT (A)

CIRCUIT SETTINGS		TOT	ALS
	20,400	MAX. VOLTAGE DROP:	0.04
TION VOLTAGE.	20.400	VOLTAGE DROP %:	0.21 %
AL VOLTAGE:	16	END OF LINE VOLTAGE:	20.36
		TOTAL CIRCUIT CURRENT	0.168
URRENT (A):	3	SPARE CIRCUIT CURRENT (A):	2.832
		SPARE CIRCUIT CURRENT %:	94.40 %
	2 070	TOTAL CIRCUIT LENGTH (FT):	41
	3.070	TOTAL CIRCUIT RESISTANCE (Ω):	0.250754
AWG, 2 COND. SOLID COPPER	R FPLP/R ANALOG UNSHIEL	DED	
NGTHS WITH 10.00 % ADDITIC	NAL LENGTH CALCULATE)	
TION	CANDELAS	ALARM CURRENT (A)	TOTAL CURRENT (A)
ED 75 CANDELA, STANDARD E, RED	75CD	0.168	0.168

VOLTAGE DROP CALCULATIONS

	Dated:	10/28/24		
т	Signed.	ET Obio #6387		
I	NICET #	#: 142654 LEVEL III		
	FIRE ALA	RM SYSTEMS		
	CN File	No. Vol. No.		
	UUFX S	2684 20		
	REV	ISIONS		
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2015 II	BC			
2015 II 2013 N	FC NFPA 72			
	BUILDING I	NFORMATION		
<u>0C0</u> T01	CUPANCY TYPE = TAL AREA = 14,883	M/S-1 7 SF (APPROX)		
101				
PREP	ARED BY:	D. BARRON		
CHEC	CKED BY:	T. CARROLL		
ΠΔΤΕ		10/28/2024		
i Sale	Design rec Es agreeme Iob #·3	EUEST #:98380 NT #:891937147 00118734		
TITLE	:			
	CALCU	LATIONS		
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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.



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eve	r⊖n [∞]
BRAN 15441 W 10 LENEX	CH #66711 0th TERRACE,
844-5	538-3766
WEB: EVERON	SOLUTIONS.COM
H&E EQ 1100 SW H. LEE'S SUMN	UIPMENT AMBLEN RD MIT, MO 64081
SPRI MONI SYS	NKLER TORING STEM
This fire alarm shop for equipment a information contai to aid in the install design changes h engineer of record Dated: Signed Tara Carroll, NICET NICET FIRE ALA	o drawing was prepared application only. The ned herein is intended ation of this system. No ave been made to the l's contract documents. 10/28/24 WWWWWWWWWWWWWWWWWW ET Ohio #6387 #: 142654 F LEVEL III RM SYSTEMS
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BY:	- - D BY LOCAL AHJ NFORMATION M/S-1 7 SE (ADDDOV)
BY: CODES ADOPTEI 2014 NEC 2015 IBC 2015 IFC 2013 NFPA 72 BUILDING OCCUPANCY TYPE = TOTAL AREA = 14,88 ONE STORY	
BY:	
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BY:	
BY:	D BY LOCAL AHJ D BY LOCAL AHJ NFORMATION M/S-1 7 SF (APPROX) D. BARRON T. CARROLL 10/28/2024
BY:	
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BY:	
BY: CODES ADOPTEI 2014 NEC 2015 IBC 2015 IFC 2013 NFPA 72 BUILDING I OCCUPANCY TYPE = TOTAL AREA = 14,88 ONE STORY FULLY-SPRINKLERED PREPARED BY: CHECKED BY: DATE: DESIGN REC SALES AGREEME JOB #: 3 TITLE: FLOC SHEET:	