

FIRE ALARM SYSTEM

PROJECT

GENERAL NOTES

- THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT CONDITIONS.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS AND GROUNDS.
- SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE DESIGNER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE.
- CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE.
- THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
- ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST.
- INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
- FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.
- ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
- ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.
- ONLY FIRE ALARM SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.
- MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.
- EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY. HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND CODES.
- THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A CENTRAL UL LISTED MONITORING STATION.
- ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.

SCOPE OF WORK

REPLACEMENT AND IMPROVEMENT OF AN EXISTING FIRE ALARM SYSTEM IN AN EXISTING BUILDING. NEW FIRE ALARM PANEL IS BEING INSTALLED AND WILL MONITOR THE EXISTING FIRE ALARM CONTROL PANELS AND BOOSTER POWER SUPPLIES. NOTIFICATION AND INITATION DEVICES IN COMMON AREAS ARE EXISTING TO REMAIN. SMOKE WITH SOUNDER BASES WILL BE PROVIDED WITHIN EACH UNIT AND ELEVATOR CONTROL. FUNCTIONS WILL BE PROVIDED FOR EVERY ELEVATOR. THE WATERFLOW SWITCH IS BEING MONITORED TO ACTIVATE NOTIFICATION DEVICES UPON ALARM.

APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE WITH DALLAS AMENDMENTS
2021 INTERNATIONAL MECHANICAL CODE WITH DALLAS AMENDMENTS
2021 UNIFORM PLUMBING CODE WITH FORT DALLAS AMENDMENTS
2021 INTERNATIONAL FUEL GAS CODE WITH DALLAS AMENDMENTS
2021 INTERNATIONAL ENERGY CODE WITH DALLAS AMENDMENTS
2020 NATIONAL ELECTRICAL CODE WITH DALLAS AMENDMENTS
2021 INTERNATIONAL FIRE CODE WITH DALLAS AMENDMENTS
ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.
NFPA 72 2019 EDITION

CONTRACTOR INFO

SYSTEM DESIGNER/INSTALLER
NAME:
EMAIL:
PHONE #:

DRAWINGS PREPARED BY
JEM SYSTEMS LLC
jemdesign@jemsystems.com
480-977-3555

SHEET INDEX

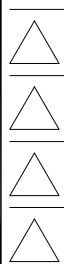
SHEET#	SHEET DESCRIPTION
FA-00	COVER SHEET
FA-01	PROJECT INFORMATION & CALCULATIONS PART A
FA-02	CALCULATIONS PART B
FA-03	WIRING DIAGRAMS
FA-04	B2 FLOOR & B1 FLOOR
FA-05	1ST FLOOR - OVERALL PLAN
FA-06	1ST FLOOR PLAN - AREA A
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FA-22	4TH FLOOR PLAN - AREA B
FA-23	4TH FLOOR PLAN - AREA C
FA-24	4TH FLOOR PLAN - AREA D
FA-25	RISER DIAGRAM - PART A
FA-26	RISER DIAGRAM - PART B

REVISION:

FIRST RELEASE



SHEET DESCRIPTION:

FIRE ALARM SYSTEM
COVER SHEET

DRAWN BY: JEM SYSTEMS

DATE: 02.27.2025

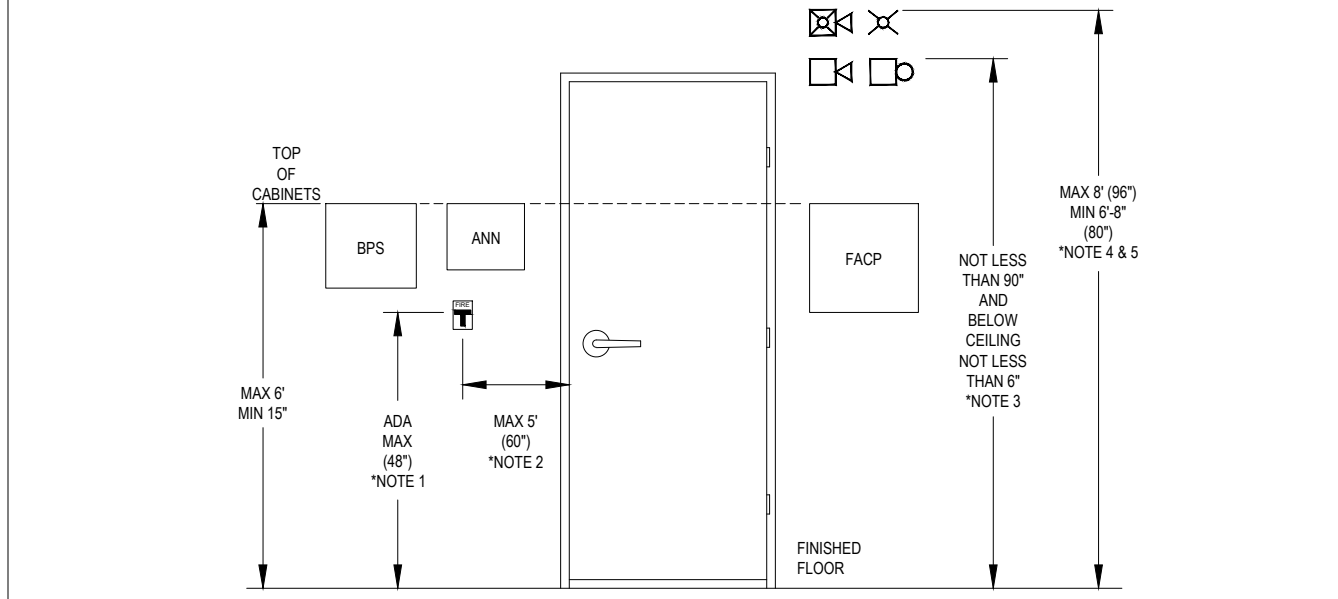
SCALE: SEE DRAWINGS

SHEET:

FA-00

BUILDING DATA			
FIRE PROTECTION:	FULLY SPRINKLERED	OCCUPANCY GROUP:	A-2, A-3, M, R-1
NUMBER OF STORIES:	4	WORK AREA:	130,000 SQFT

- TYPICAL MOUNTING HEIGHTS**
- NFPA 72 2019 17.15.6 THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42in AND NOT MORE THAN 48in FROM THE FINISHED FLOOR.
 - NFPA 72 2019 17.15.9.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5R OF EACH EXIT DOORWAY ON EACH FLOOR.
 - NFPA 72 2019 18.4.9.1 IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.9.2 THROUGH 18.4.9.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS THAN 6in.
 - NFPA 72 2019 18.4.9.3 IF COMBINATION AUDIBLE/ VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5. (SEE NOTE 5).
 - NFPA 72 2019 18.5.5.1 WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in, AND NOT GREATER THAN 96in ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT SPECIFIED USING THE PERFORMANCE BASED ALTERNATIVE OF 18.5.5.7.



EQUIPMENT LIST					
SYMBOL	NEW	EXISTING	MANUFACTURER	PART NO	DESCRIPTION
[FACP]	1	3	SILENT KNIGHT	6820	FIRE ALARM CONTROL PANEL
[DOC]	1		SPACE AGE ELECTRONICS	SSU00691	DOCUMENT BOX
[FATC]	3		SPACE AGE ELECTRONICS	SSU00635	FIRE ALARM TERMINAL CABINET
	3		SILENT KNIGHT	6815 SK PROTOCOL	SIGNALING LINE CIRCUIT EXPANDER, 159 PTS (SK)
	3		SILENT KNIGHT	SK-NIC	NETWORK INTERFACE CARD
[NAC]	9	10	POTTER	PSN-106	POTTER 10A POWER SUPPLY
[NAC] 6		1	HONEYWELL	HPF-PS6	HONEYWELL 6A POWER SUPPLY
[NAC] 64		1	POTTER	PSN-64	POTTER 6A POWER SUPPLY
[CELL]	1		NAPCO	SLE-MAX2-FIRE	COMMUNICATOR
[AM]	49		SILENT KNIGHT	SK-MONITOR	ADDRESSABLE MONITOR MODULE
[AR]	33		SILENT KNIGHT	SK-RELAY	ADDRESSABLE RELAY MODULE
[F]	1		SILENT KNIGHT	SK-PULL-DA	ADDRESSABLE MANUAL PULL STATION
[H]	19		SILENT KNIGHT	SK-HEAT-W	ADDRESSABLE HEAT DETECTOR
[S]	30		SILENT KNIGHT	SK-PHOTO-W W/B300-6	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	364		SILENT KNIGHT	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE
[S] LF CO, LF	32		SILENT KNIGHT	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	9		SPACE AGE ELECTRONICS	E120V-GT	SURGE PROTECTION
[V]	4		GENERIC	-	VALVE TAMPER SWITCH (BY OTHERS)
[W]	4		GENERIC	-	WATERFLOW SWITCH (BY OTHERS)

CABLE AND WIRE LEGEND				
LABEL	PART NO	RESISTANCE	AWG	TOTAL LENGTH
A	184 FPLP (ANN)	6.50	18	233'
D	18/2 FPLP (SLC)	4.10	16	15769'
E	RJ31X (PHL)	16.14	22	5'
P	14/2 FPLP (AUX)	2.60	14	12540'
Z	18/2 FPLP (IDC)	6.50	18	63'

PANEL P-1 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0
CIRCUIT	SYMBOL	1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P-1-AUX10	 LF	6	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
P-1-AUX6	 LF	11	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00605	0.14	1.54
P-1-AUX7	 LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-1-AUX8	 LF	10	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0055	0.14	1.40
P-1-AUX9	 LF	6	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
TOTAL STANDBY (A)					0.0981		TOTAL ALARM (A)	
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)					0.0981		24	
SECONDARY ALARM LOAD (A)					5.96		0.083	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							2.85	
DERATING FACTOR							1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.56	
PROVIDE (2) 12V 7AH BATTERIES								

PANEL P-2 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0
CIRCUIT	SYMBOL	1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P-2-AUX12	 LF	5	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00275	0.14	0.70
P-2-AUX13	 LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-2-AUX14	 LF	6	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
P-2-AUX15	 LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-2-AUX16	 LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
					TOTAL STANDBY (A)	0.0948	TOTAL ALARM (A)	5.12
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)					24		2.38	
SECONDARY ALARM LOAD (A)					0.093		0.4825	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							2.70	
DERATING FACTOR							1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.38	
PROVIDE (2) 12V 7AH BATTERIES								

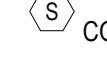
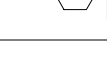
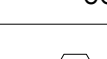
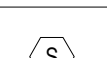
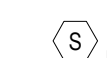
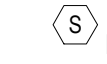
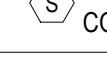
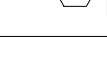
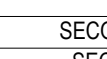
PANEL P-3 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)									
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT		
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
CIRCUIT	SYMBOL	1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0	
		1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075	
P-3-AUX18	 LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980	
P-3-AUX19	 LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980	
P-3-AUX20	 LF	11	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00605	0.14	1.54	
P-3-AUX21	 LF	10	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0055	0.14	1.40	
P-3-AUX22	 LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26	
TOTAL STANDBY (A)					0.0992		TOTAL ALARM (A)		6.24
					REQUIRED STANDBY TIME (HOURS)				24
					REQUIRED ALARM TIME (MINUTES)				5
					0.0992	24			2.38
					6.24	0.083			0.520
SECONDARY STANDBY LOAD (A)									
SECONDARY ALARM LOAD (A)									
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							2.90		
DERATING FACTOR							1.25		
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.63		
PROVIDE (2) 12V 7AH BATTERIES									

PANEL P-4 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
		1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		QTY	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0	0	0	0
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P-4-AUX24	 LF	6	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
P-4-AUX25	 LF	11	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00605	0.14	1.54
P-4-AUX26	 LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-4-AUX27	 CO, LF	2	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
	 LF	8	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0044	0.14	1.12
P-4-AUX28	 LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
TOTAL STANDBY (A)					0.09865		TOTAL ALARM (A)	
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)					0.09865		2.88	
SECONDARY ALARM LOAD (A)					6.10		1.25	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							3.59	
DERATING FACTOR								
SECONDARY LOAD REQUIREMENTS (AMP HOURS)								
					PROVIDE (2) 12V 7AH BATTERIES			

PANEL P-5 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
				STANDBY CURRENT		SECONDARY ALARM CURRENT		
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
		1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0
		1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
P-5-AUX30	CO, LF	2	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
	LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
P-5-AUX31	CO, LF	1	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
	LF	7	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
P-5-AUX32	CO, LF	1	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
	LF	8	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0044	0.14	1.12
P-5-AUX33	LF	9	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-5-AUX34	CO, LF	1	SK-FIRE-CO W/B200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
	LF	6	SK-PHOTO-W W/B200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
					TOTAL STANDBY (A)	0.0981	TOTAL ALARM (A)	5.96
				0.0981	REQUIRED STANDBY TIME (HOURS)		24	
				5.96	REQUIRED ALARM TIME (MINUTES)		5	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)				5.96	0.083		2.85	
DERATING FACTOR							1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.56	
PROVIDE (2) 12V 7AH BATTERIES								

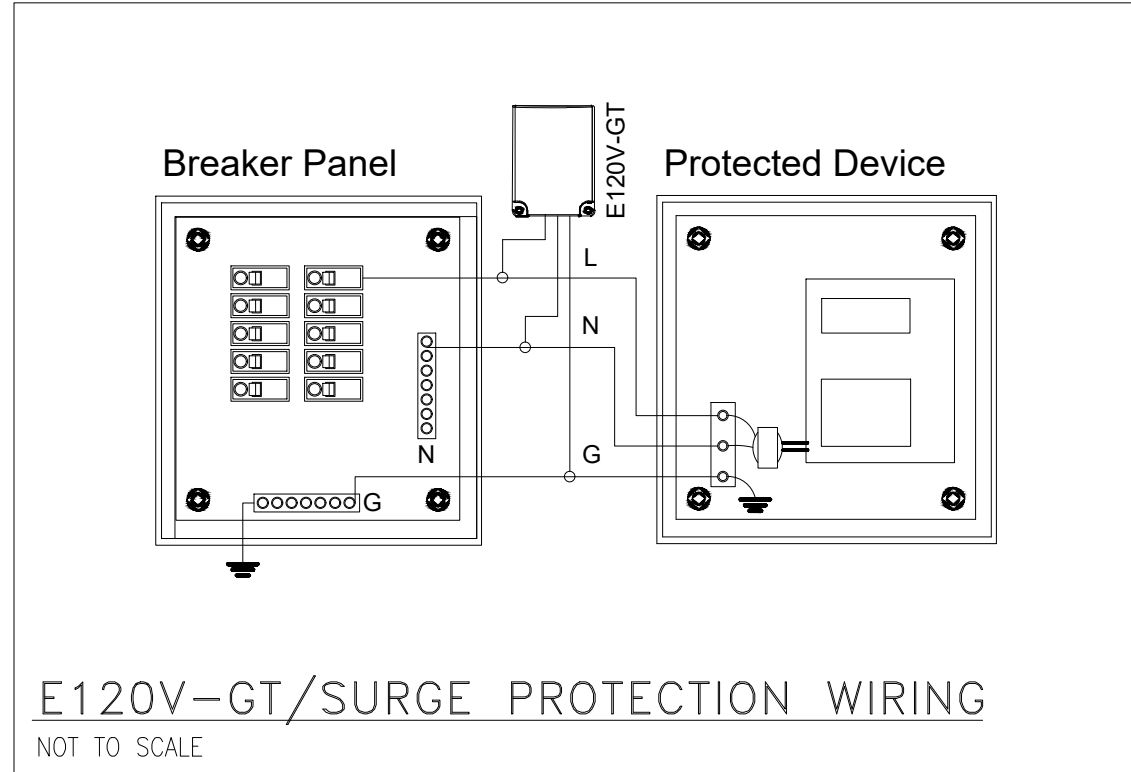
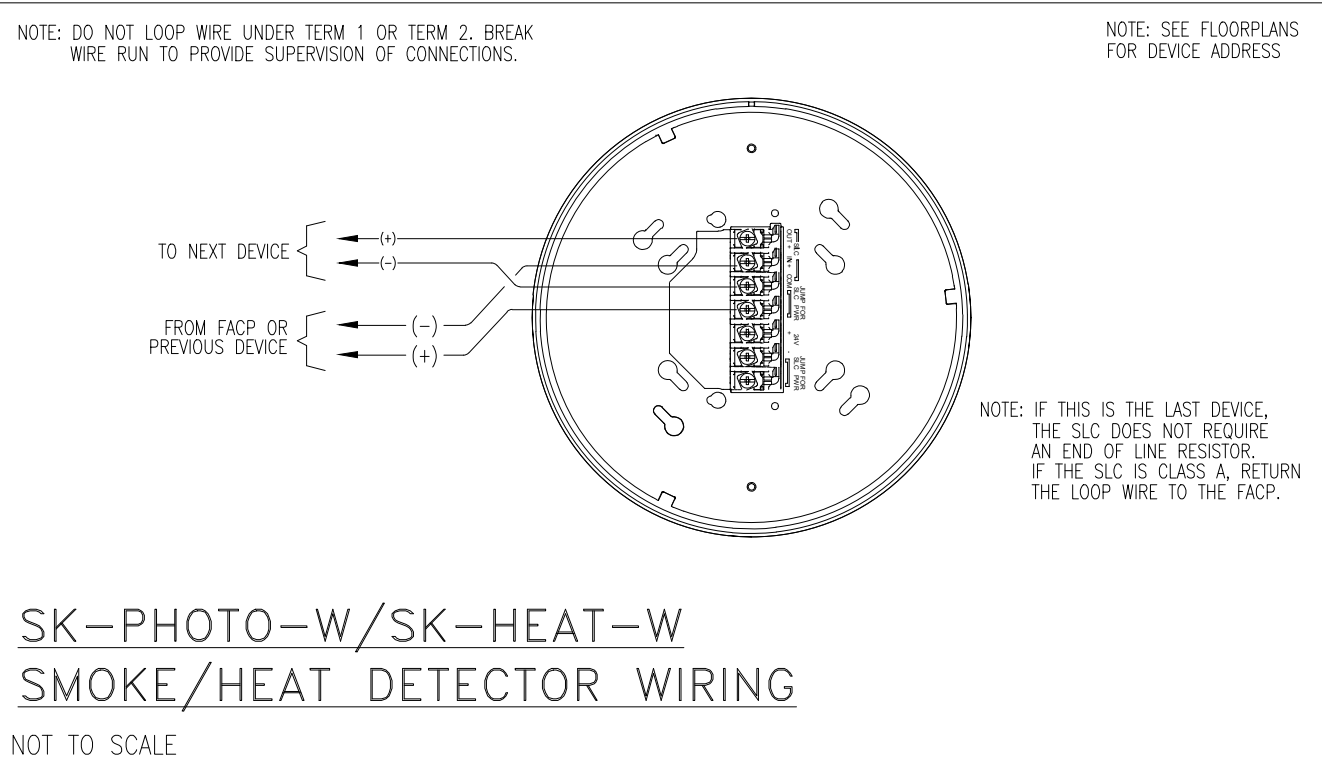
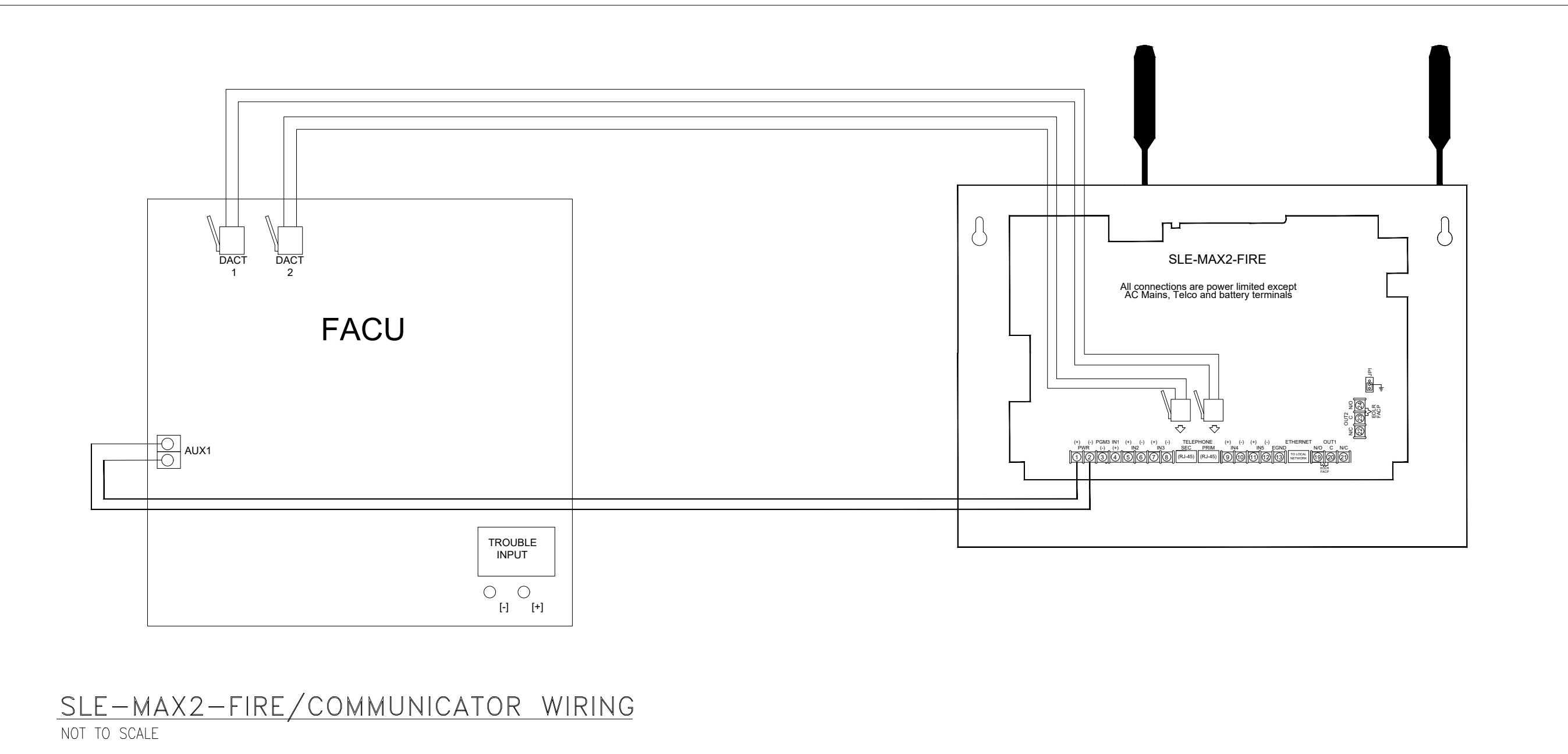
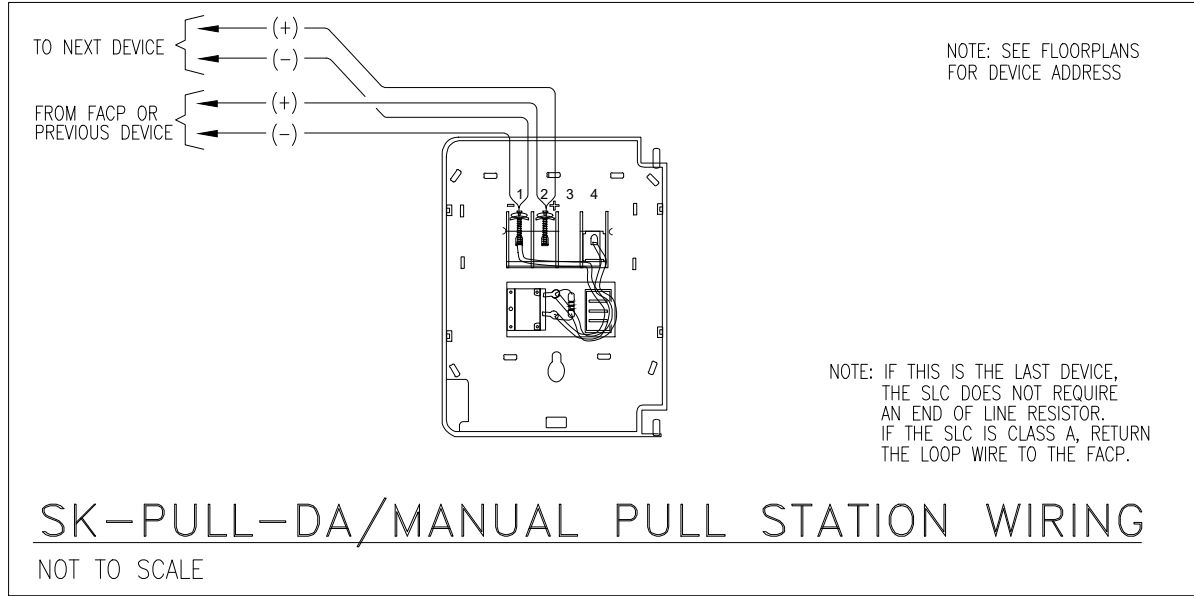
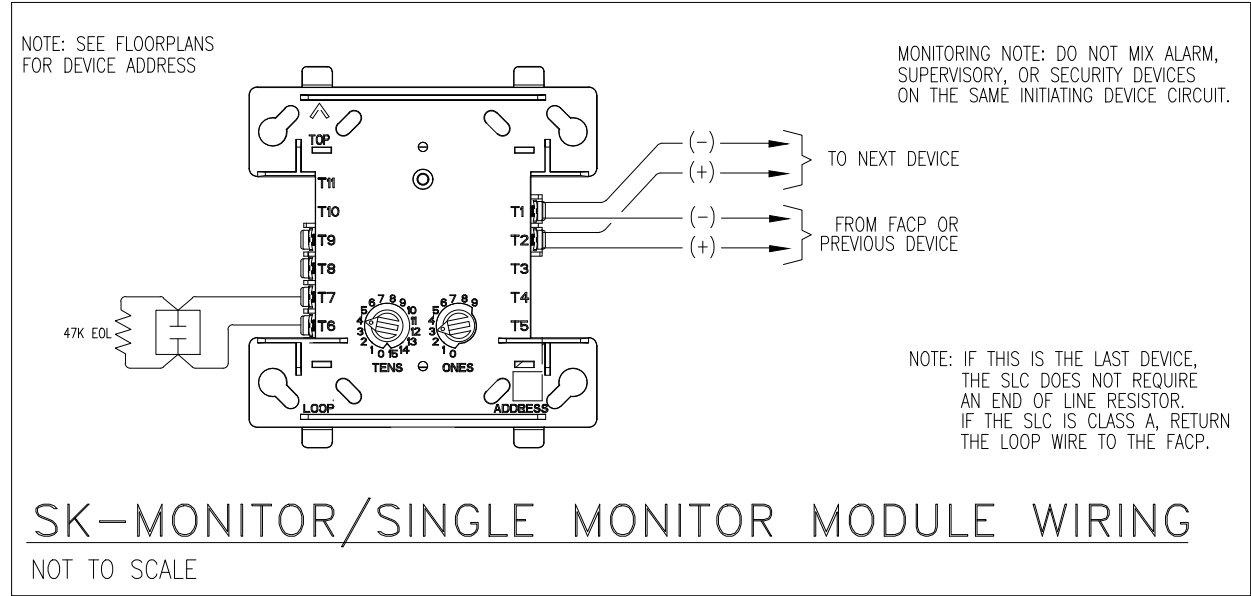
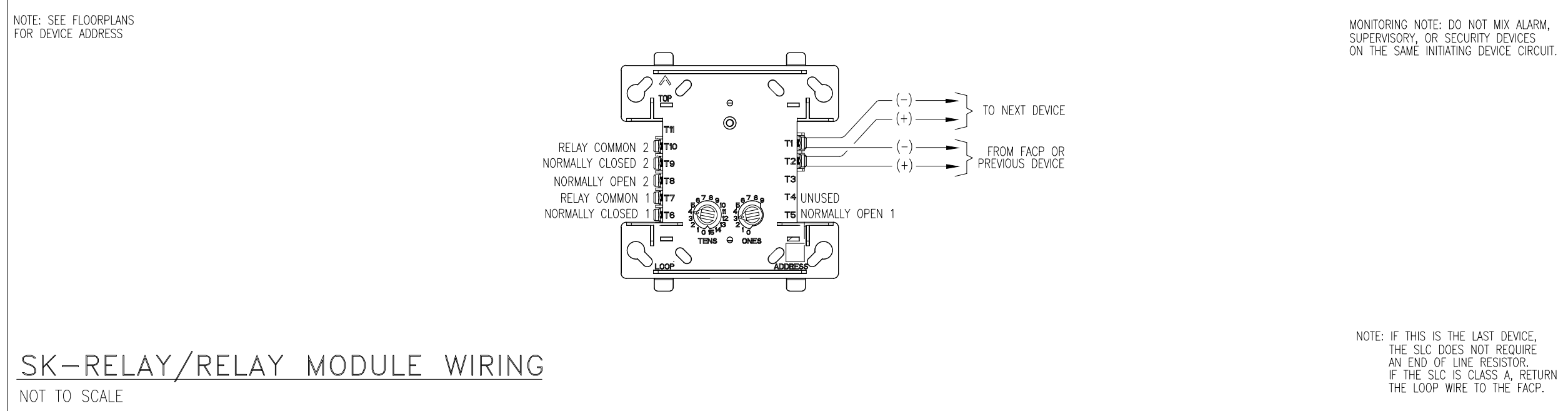
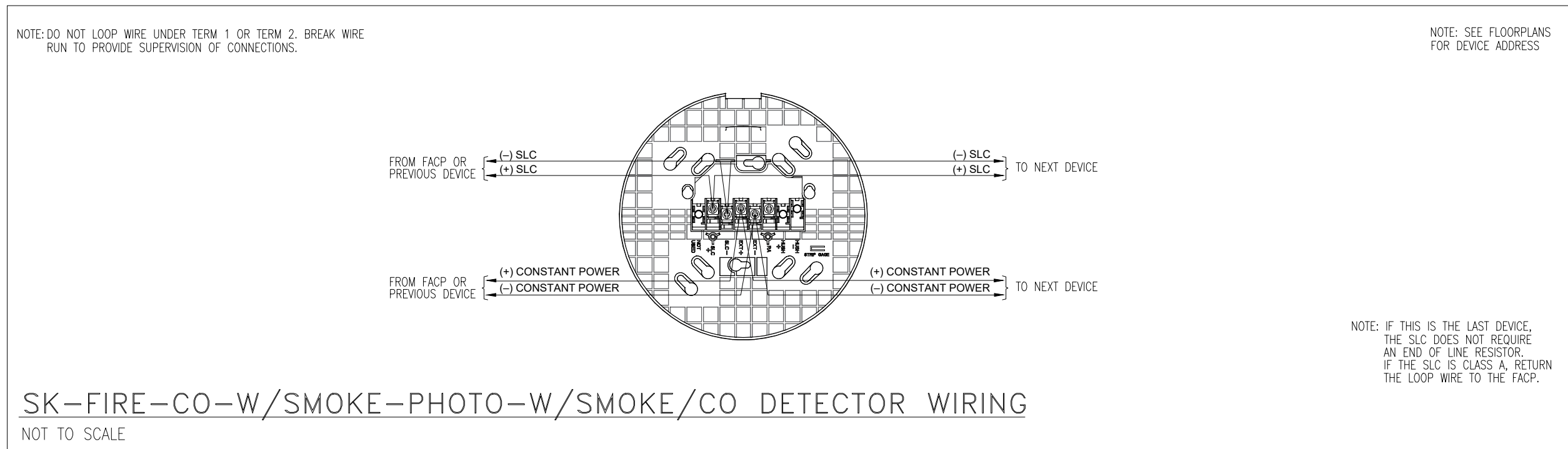
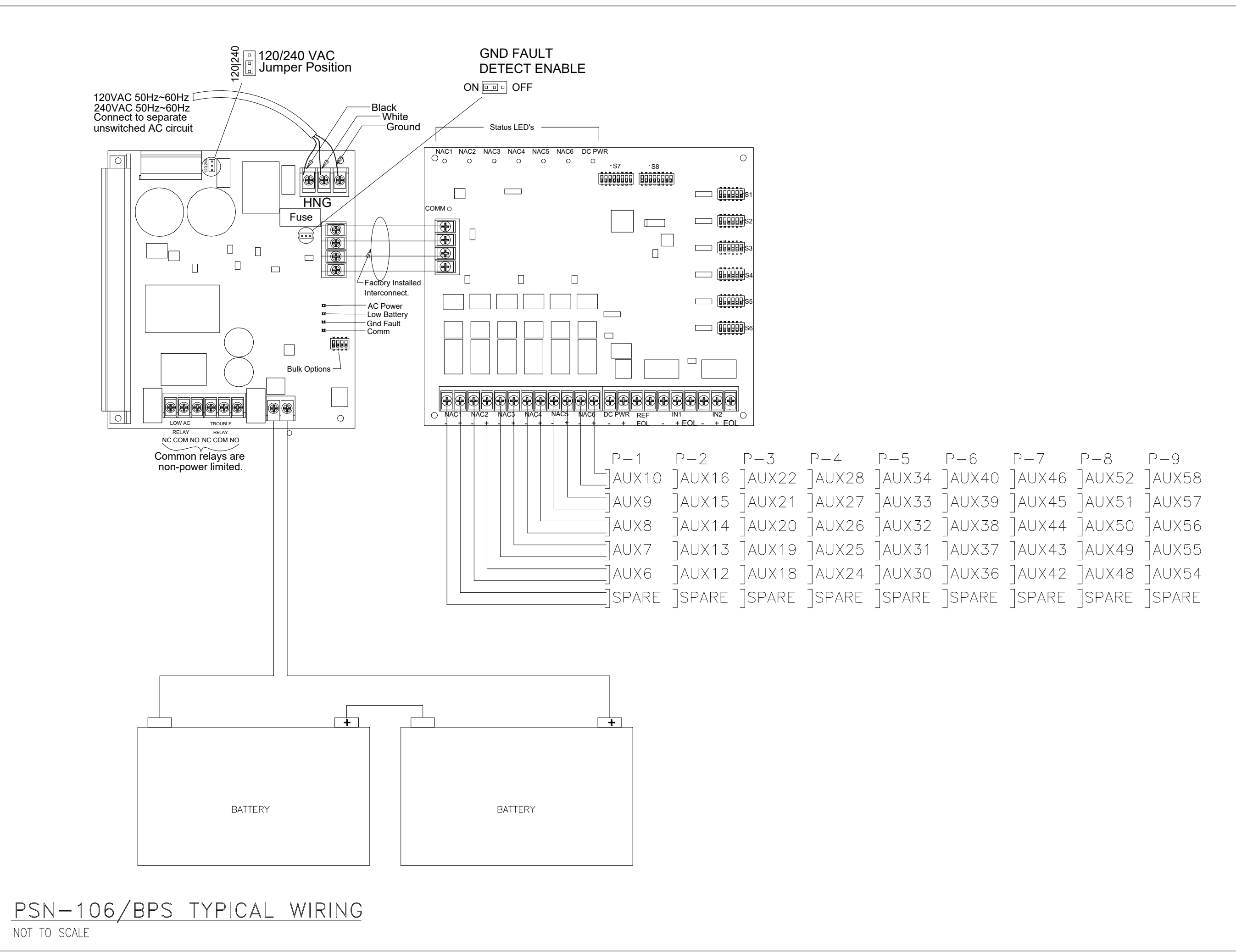
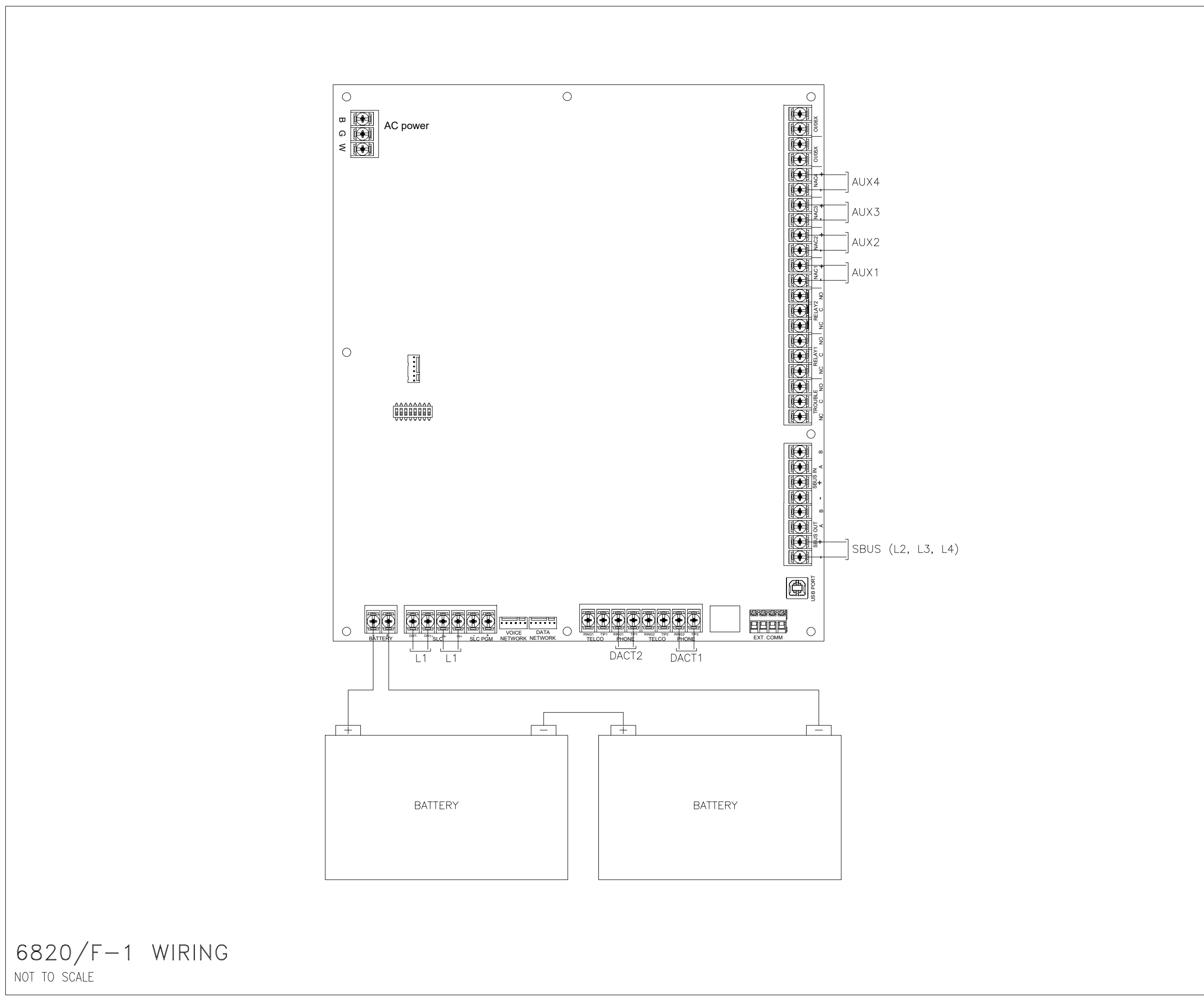
EVENT	ACTION												
	TROUBLE SIGNAL @ FIRE ALARM CONTROL PANEL		SUPERVISORY SIGNAL @ FIRE ALARM CONTROL PANEL		ALARM SIGNAL @ FIRE ALARM CONTROL PANEL		TROUBLE SIGNAL @ OFF SITE MONITORING		SUPERVISORY SIGNAL @ OFF SITE MONITORING		ALARM SIGNAL @ OFF SITE MONITORING		
	ACTIVATE NOTIFICATION DEVICES		ACTIVATE EXTERIOR NOTIFICATION DEVICES		ELEVATOR RECALLED TO PRIMARY LEVEL (PRIMARY LEVEL)		ELEVATOR RECALLED TO ALTERNATE LEVEL (ALTERNATE LEVEL)		ELEVATOR CAB SAFETY INDICATOR		ACTIVATE IN UNIT LOW FREQUENCY SOUNDER		
	ELEVATOR RECALLED TO PRIMARY LEVEL (PRIMARY LEVEL)		ELEVATOR RECALLED TO ALTERNATE LEVEL (ALTERNATE LEVEL)		ELEVATOR CAB SAFETY INDICATOR		ACTIVATE IN UNIT LOW FREQUENCY SOUNDER						
SMOKE/HEAT DETECTOR				●				●	●				●
MANUAL PULL STATION				●				●	●				●
WATERFLOW SWITCH				●				●	●	●			●
KITCHEN HOOD SYSTEM				●				●	●				●
PRIMARY FLOOR ELEVATOR LOBBY SMOKE DETECTOR				●				●			●		●
ALTERNATE FLOORS ELEVATOR LOBBY SMOKE DETECTOR				●				●	●		●		●
ELEVATOR MACHINE ROOM SMOKE DETECTOR				●				●	●			●	●
TAMPER SWITCH			●				●						
IN UNIT SMOKE/SMOKE CO DETECTOR			●				●						●
FACP AC POWER FAILURE	●					●							
SYSTEM LOW BATTERY	●					●							
OPEN CIRCUIT	●					●							
GROUND FAULT	●					●							
NOTIFICATION APPLIANCE CIRCUIT SHORT	●					●							
CELLULAR DISCONNECT	●					●							
FIRE PUMP RUN		●					●						
FIRE PUMP POWER LOSS		●					●						
FIRE PUMP PHASE REVERSAL		●					●						
FIRE PUMP MAIN CONTROL VALVE		●					●						
FIRE PUMP FDC CONTROL VALVE		●					●						
FIRE PUMP OS&Y		●					●						
DRY SYSTEM LOW AIR/HIGH		●					●						
AIR/TAMPER		●					●						
2-FIRE PUMP CONTROL VALVES		●					●						
UPPER BACKFLOW OS&Y		●					●						
LOWER BACKFLOW OS&Y		●					●						
NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION													

PANEL 2011 EOL P-7 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)									
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT		
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
					1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0
CIRCUIT	SYMBOL	QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
P-7-AUX42		6	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840	
P-7-AUX43		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28	
		9	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26	
P-7-AUX44		9	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26	
P-7-AUX45		3	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00165	0.14	0.42	
		7	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980	
P-7-AUX46		7	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980	
					TOTAL STANDBY (A)	0.08665	TOTAL ALARM (A)	6.10	
					REQUIRED STANDBY TIME (HOURS)				24
					REQUIRED ALARM TIME (MINUTES)				5
SECONDARY STANDBY LOAD (A)					0.08665	24			2.37
SECONDARY ALARM LOAD (A)					6.10	0.083			0.508
STANDBY AND ALARM SUBTOTAL (AMP HOURS)									2.88
DERATING FACTOR									1.25
SECONDARY LOAD REQUIREMENTS (AMP HOURS)									3.59
PROVIDE (2) 12V 7AH BATTERIES									

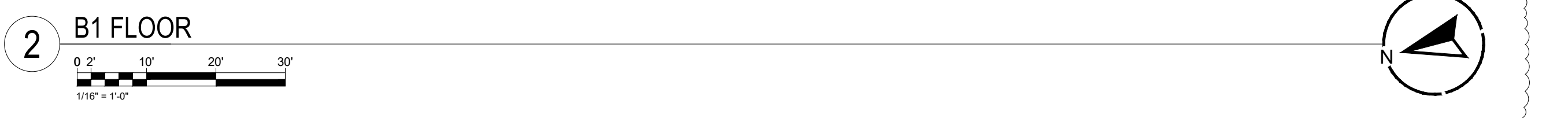
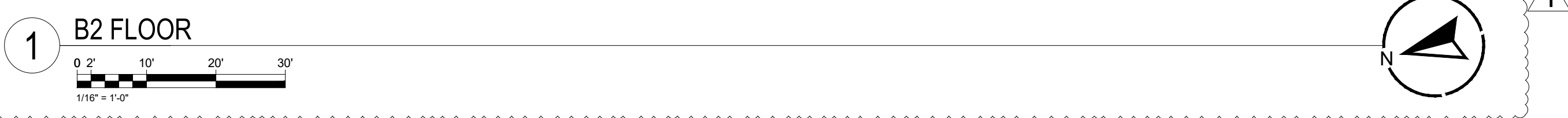
PANEL P-8 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
CIRCUIT	SYMBOL	1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0
		1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
P-8-AUX48		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
		7	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
P-8-AUX49		1	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
		5	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00275	0.14	0.70
P-8-AUX50		1	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
		8	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0044	0.14	1.12
P-8-AUX51		9	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00495	0.14	1.26
P-8-AUX52		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
		4	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0022	0.14	0.560
TOTAL STANDBY (A)					0.08645		TOTAL ALARM (A)	5.54
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)					0.08645			
STANDBY AND ALARM SUBTOTAL (AMP HOURS)					5.54	0.083	2.78	0.46125
DERATING FACTOR							1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.47	
PROVIDE (2) 12V 7AH BATTERIES								

PANEL P-9 (PSN-106) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)								
PANEL COMPONENTS		QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
					CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
CIRCUIT	SYMBOL	1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0	0	0	0
		1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
P-9-AUX54		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
		6	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0033	0.14	0.840
P-9-AUX55		1	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00055	0.14	0.14
		8	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0044	0.14	1.12
P-9-AUX56		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
		7	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00385	0.14	0.980
P-9-AUX57		2	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.0011	0.14	0.28
		4	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.0022	0.14	0.560
P-9-AUX58		3	SK-FIRE-CO WB200S-LF-WH	ADDRESSABLE PHOTOELECTRIC SMOKE/CO DETECTOR WITH LF SOUNDER BASE	0.00055	0.00165	0.14	0.42
		11	SK-PHOTO-W WB200S-LF-WH	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE	0.00055	0.00605	0.14	1.54
TOTAL STANDBY (A)					0.1003		TOTAL ALARM (A)	6.52
					REQUIRED STANDBY TIME (HOURS)		24	
					REQUIRED ALARM TIME (MINUTES)		5	
SECONDARY STANDBY LOAD (A)					0.1003		2.41	
SECONDARY ALARM LOAD (A)					6.52	0.083	0.543	
STANDBY AND ALARM SUBTOTAL (AMP HOURS)							2.95	
DERATING FACTOR							1.25	
SECONDARY LOAD REQUIREMENTS (AMP HOURS)							3.69	
PROVIDE (2) 12V 7AH BATTERIES								

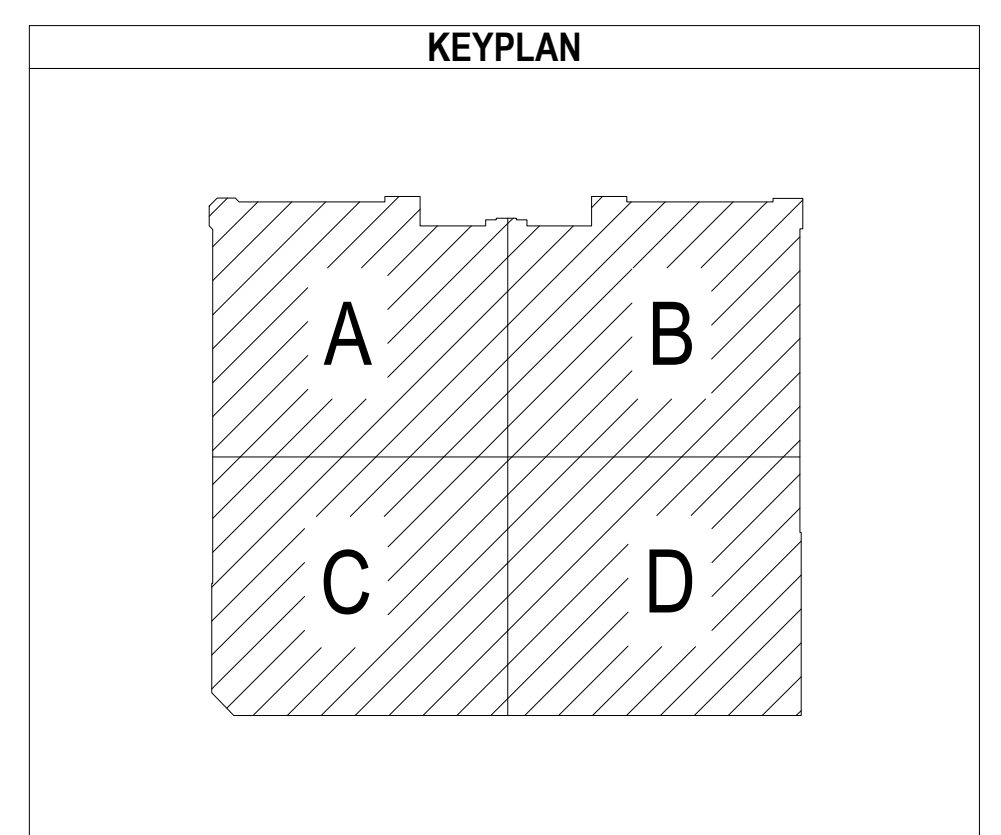
LUMP SUM REPORT SUMMARY																			
SOURCE	CIRCUIT	PART NO	MAX. CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (OHM/FT)	TOTAL CIRCUIT LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (OHM)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
F-1 (8820)	AUX1	6820 MAIN BOARD	6	2.91	3.09	51.56 %	3	0.2	2.80	93.33 %	14	2.60	3	0.015167	20.40	16	0.00303	20.40	0.01 %
	AUX2						3	0.960	2.44	81.33 %	14	2.60	30	0.48591	20.40	16	0.27211	20.13	1.33 %
	AUX3						3	1.12	1.88	62.67 %	14	2.60	211	1.10	20.40	16	1.23	19.17	6.03 %
	AUX4						3	0.840	2.16	72.00 %	14	2.60	232	1.21	20.40	16	1.01	19.39	4.97 %
	AUX10						3	0.840	2.16	72.00 %	14	2.60	365	1.90	20.40	16	1.59	18.81	7.81 %
P-1 (PSN-106)	AUX6	PSN-106 MAIN BOARD	10	5.88	4.12	41.20 %	3	1.54	1.46	48.67 %	14	2.60	243	1.26	20.40	16	1.56	18.45	9.54 %
	AUX7						3	1.26	1.74	58.00 %	14	2.60	241	1.25	20.40	16	1.58	18.82	7.73 %
	AUX8						3	1.40	1.60	53.33 %	14	2.60	242	1.26	20.40	16	1.76	18.64	8.64 %
	AUX9						3	0.840	2.16	72.00 %	14	2.60	380	1.98	20.40	16	1.66	18.74	8.14 %
	AUX12						3	0.70	2.30	76.67 %	14	2.60	313	1.63	20.40	16	1.14	19.26	5.86 %
P-2 (PSN-106)	AUX13	PSN-106 MAIN BOARD	10	5.04	4.56	49.60 %	3	1.26	1.74	58.00 %	14	2.60	206	1.07	20.40	16	1.35	19.05	6.63 %
	AUX14						3	0.840	2.16	72.00 %	14	2.60	223	1.16	20.40	16	0.975960	19.42	4.78 %
	AUX15						3	1.74	1.26	56.00 %	14	2.60	372	1.94	20.40	16	1.27	19.13	6.24 %
	AUX16						3	0.980	2.02	67.33 %	14	2.60	209	1.09	20.40	16	1.07	19.33	5.23 %
	AUX18						3	0.980	2.02	67.33 %	14	2.60	434	2.26	20.40	16	2.21	18.19	10.85 %
P-3 (PSN-106)	AUX19	PSN-106 MAIN BOARD	10	6.16	3.84	38.40 %	3	0.980	2.02	67.33 %	14	2.60	294	1.53	20.40	16	1.50	18.90	7.34 %
	AUX20						3	1.54	1.46	48.67 %	14	2.60	227	1.16	20.40	16	1.82	18.58	8.90 %
	AUX21						3	1.40	1.60	53.33 %	14	2.60	373	1.94	20.40	16	2.71	17.69	13.30 %
	AUX22						3	1.26	1.74	58.00 %	14	2.60	255	1.33	20.40	16	1.67	18.73	8.19 %
	AUX24						3	0.840	2.16	72.00 %	14	2.60	266	1.39	20.40	16	1.16	19.24	5.71 %
P-4 (PSN-106)	AUX25	PSN-106 MAIN BOARD	10	6.02	3.98	39.80 %	3	1.54	1.46	48.67 %	14	2.60	207	1.08	20.40	16	1.66	18.74	8.14 %
	AUX26						3	1.26	1.74	58.00 %	14	2.60	247	1.28	20.40	16	1.62	18.78	7.93 %
	AUX27						3	1.40	1.60	53.33 %	14	2.60	237	1.23	20.40	16	1.72	18.68	8.45 %
	AUX28						3	0.980	2.02	67.33 %	14	2.60	372	1.93	20.40	16	1.89	18.51	9.29 %
	AUX30						3	1.26	1.74	58.00 %	14	2.60	160	0.832	20.40	16	1.05	19.35	5.14 %
P-5 (PSN-106)	AUX31	PSN-106 MAIN BOARD	10	5.88	4.12	41.20 %	3	1.12	1.88	62.67 %	14	2.60	241	1.25	20.40	16	1.40	19.00	8.87 %
	AUX32						3	1.74	1.26	56.00 %	14	2.60	372	1.94	20.40	16	1.27	19.13	6.24 %
	AUX33						3	1.26	1.74	58.00 %	14	2.60	194	1.01	20.40	16	1.27	19.13	6.23 %
	AUX34						3	0.980	2.02	67.33 %	14	2.60	205	1.07	20.40	16	1.05	19.35	5.13 %
	AUX36						3	0.980	2.02	67.33 %	14	2.60	403	2.09	20.40	16	2.05	18.35	10.86 %
P-6 (PSN-106)	AUX37	PSN-106 MAIN BOARD	10	6.02	3.98	39.80 %	3	0.980	2.02	67.33 %	14	2.60	311	1.62	20.40	16	1.59	18.81	7.78 %
	AUX38						3	1.12	1.88	62.67 %	14	2.60	140	0.728	20.40	16	0.814830	19.59	3.99 %
	AUX39						3	1.88	1.32	44.00 %	14	2.60	387	2.01	20.40	16	2.38	17.02	16.59 %
	AUX40						3	1.26	1.74	58.00 %	14	2.60	255	1.33	20.40	16	1.67	18.73	8.19 %
	AUX42						3	0.840	2.16	72.00 %	14	2.60	267	1.39	20.40	16	1.17	19.23	5.71 %
P-7 (PSN-106)	AUX43	PSN-106 MAIN BOARD	10	6.02	3.98	39.80 %	3	1.54	1.46	48.67 %	14	2.60	206	1.07	20.40	16	1.65	18.75	8.09 %
	AUX44						3	1.26	1.74	58.00 %	14	2.60	243	1.26	20.40	16	1.59	18.81	7.86 %
	AUX45						3	1.40	1.60	53.33 %	14	2.60	238	1.25	20.40	16	1.72	18.68	8.43 %
	AUX46						3	0.980	2.02	67.33 %	14	2.60	377	1.96	20.40	16	1.92	18.48	8.42 %
	AUX48						3	1.26	1.74	58.00 %	14	2.60	160	0.830	20.40	16	1.09	19.35	5.13 %
P-8 (PSN-106)	AUX49	PSN-106 MAIN BOARD	10	5.46	4.54	45.40 %	3	0.840	2.16	72.00 %	14	2.60	111	0.593660	19.40	16	0.48	19.40	4.89 %
	AUX50						3	1.26	1.74	58.00 %	14	2.60	246	1.28	20.40	16	1.61	18.79	7.90 %
	AUX51						3	1.26	1.74	58.00 %	14	2.60	208	1.08	20.40	16	1.36	19.04	6.88 %
	AUX52						3	0.840	2.16	72.00 %	14	2.60	308	1.52	20.40	16	0.849880	19.83	2.82 %
	AUX54						3	1.12	1.88	62.67 %	14	2.60	486	2.53	20.40	16	2.83	17.57	13.89 %
P-9 (PSN-106)	AUX55	PSN-106 MAIN BOARD	10	6.44	3.56	35.60 %	3	1.26	1.74	58.00 %	14	2.60	229	1.19	20.40	16	1.50	18.90	7.36 %
	AUX56						3	1.26	1.74	58.00 %	14	2.60	308	1.60	20.40	16	2.02	18.38	9.98 %
	AUX57						3	1.40	1.60	53.33 %	14	2.60	345	1.80	20.40	16	1.51	18.98	7.88 %
	AUX58						3	1.96	1.04	34.67 %	14	2.60	281	1.46	20.40	16	2.87	17.53	14.05 %



PROJECT



ADDRESS & LABEL REFERENCE	
① I-1-M007 FIRE PUMP RUN	② I-1-M008 FIRE PUMP POWER LOSS
③ I-1-M009 FIRE PUMP PHASE REVERSAL	
④ F-1-I-M050 FIRE PUMP MAIN CONTROL VALVE	⑤ F-1-I-M051 FIRE PUMP PIC CONTROL VALVE
⑥ F-1-I-M054 WATERFLOW SWITCH	
⑦ F-1-I-M053 WATERFLOW SWITCH	⑧ F-1-I-M052 FIRE PUMP OSGY
⑨ F-1-I-M055 DRY SYSTEM LOW AIR/HIGH	
⑩ F-1-I-M056 AIR/TAMPER	⑪ F-1-I-M057 2-CONTROL VALVES
⑫ F-1-I-M058 UPPER BACKFLOW OSBY	
⑬ F-1-I-M059 LOWER BACKFLOW OSBY	



PROJECT

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
B2 FLOOR & B1 FLOOR

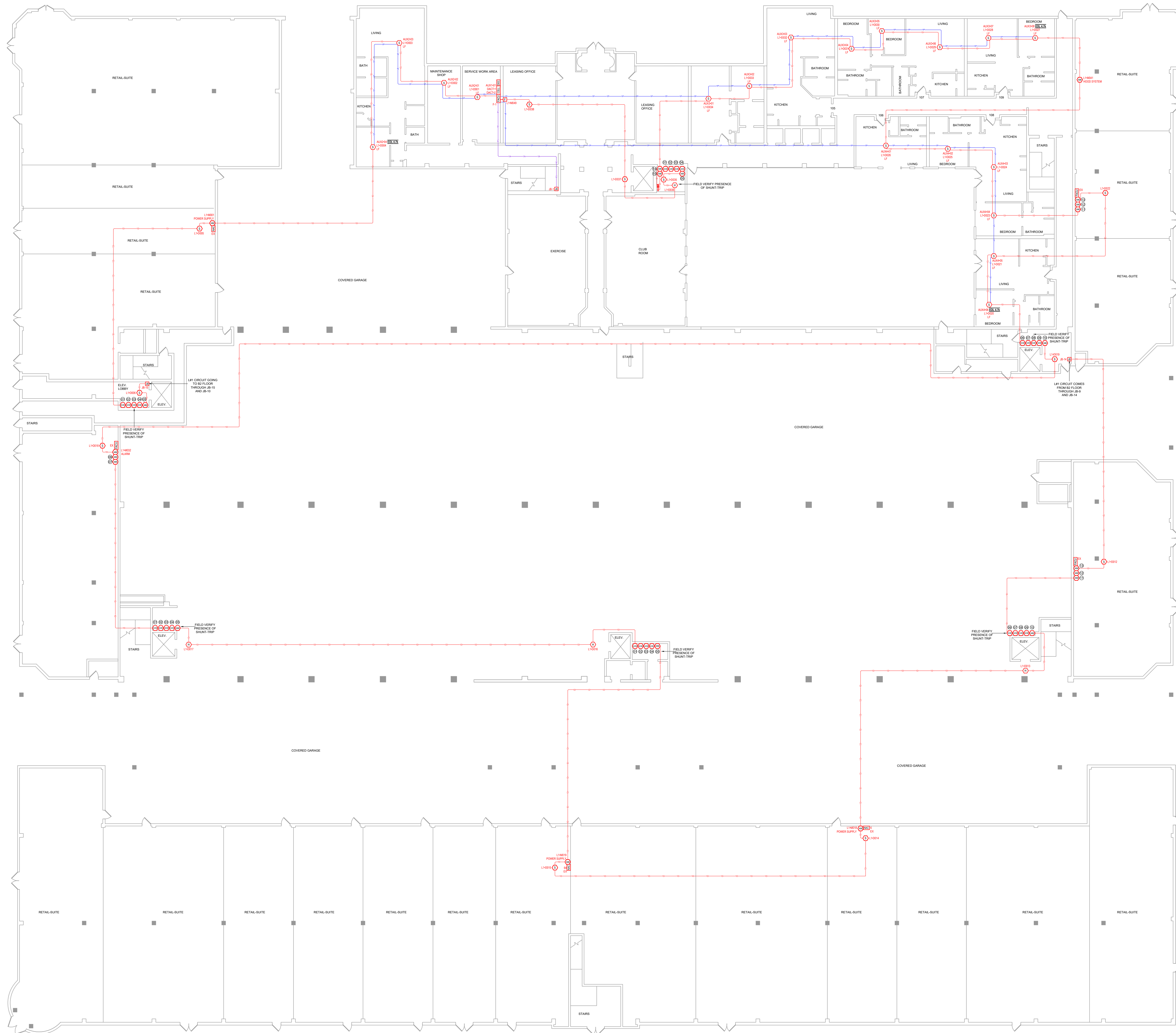
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DATE: 02.27.2025

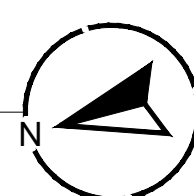
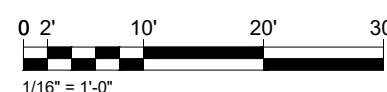
SCALE: SEE DRAWINGS

SHEET:

FA-04



1 1ST FLOOR - OVERALL PLAN



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X [H] X [S] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
	SLC LOOP NUMBER "10" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

KEYPLAN

PROJECT

REVISION:
FIRST RELEASE

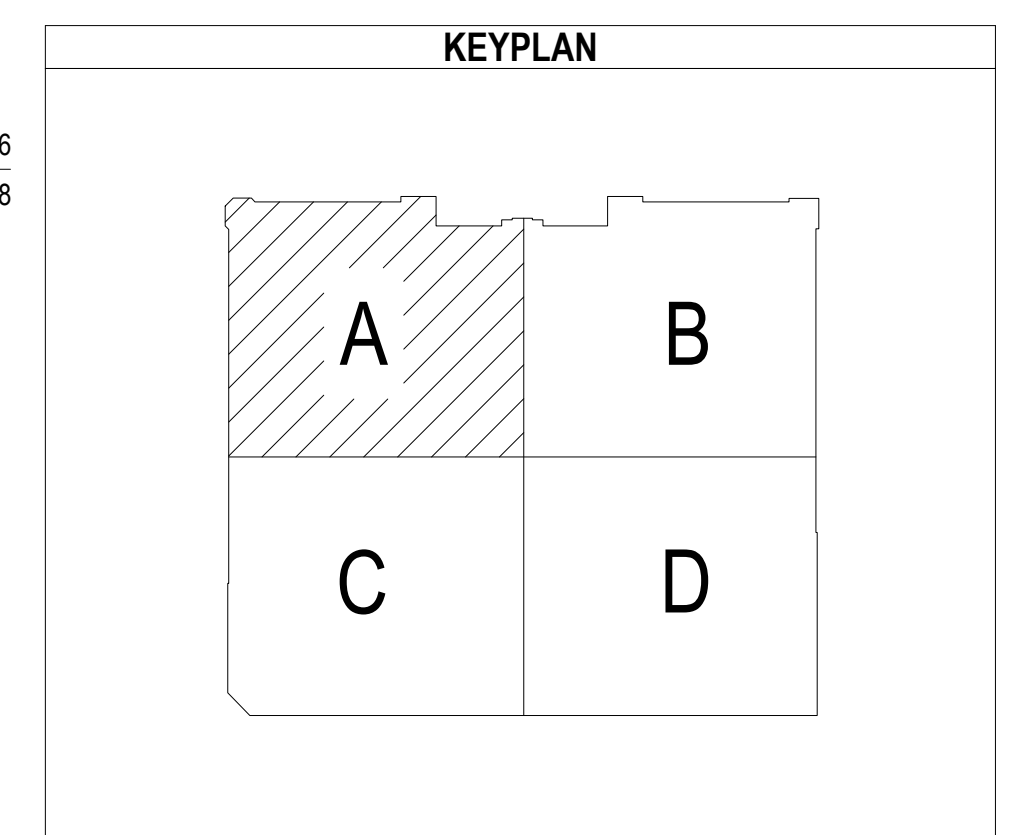
SHEET DESCRIPTION:
FIRE ALARM SYSTEM
1ST FLOOR - OVERALL PLAN

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-05



ADDRESS & LABEL REFERENCE			
01	L1-M006 PRIMARY	02	L1-M005 ALTERNATE
		03	L1-M004 HAT
04	L1-M003 SHUNT	05	L1-M002 SHUNT
		06	L1-M0031 TROUBLE
07	L1-M030 SUPERVISORY		



PROJECT

REVISION

FIRST RELEASE

SHEET DESCRIPTION:

FIRE ALARM SYSTEM
1ST FLOOR - AREA A

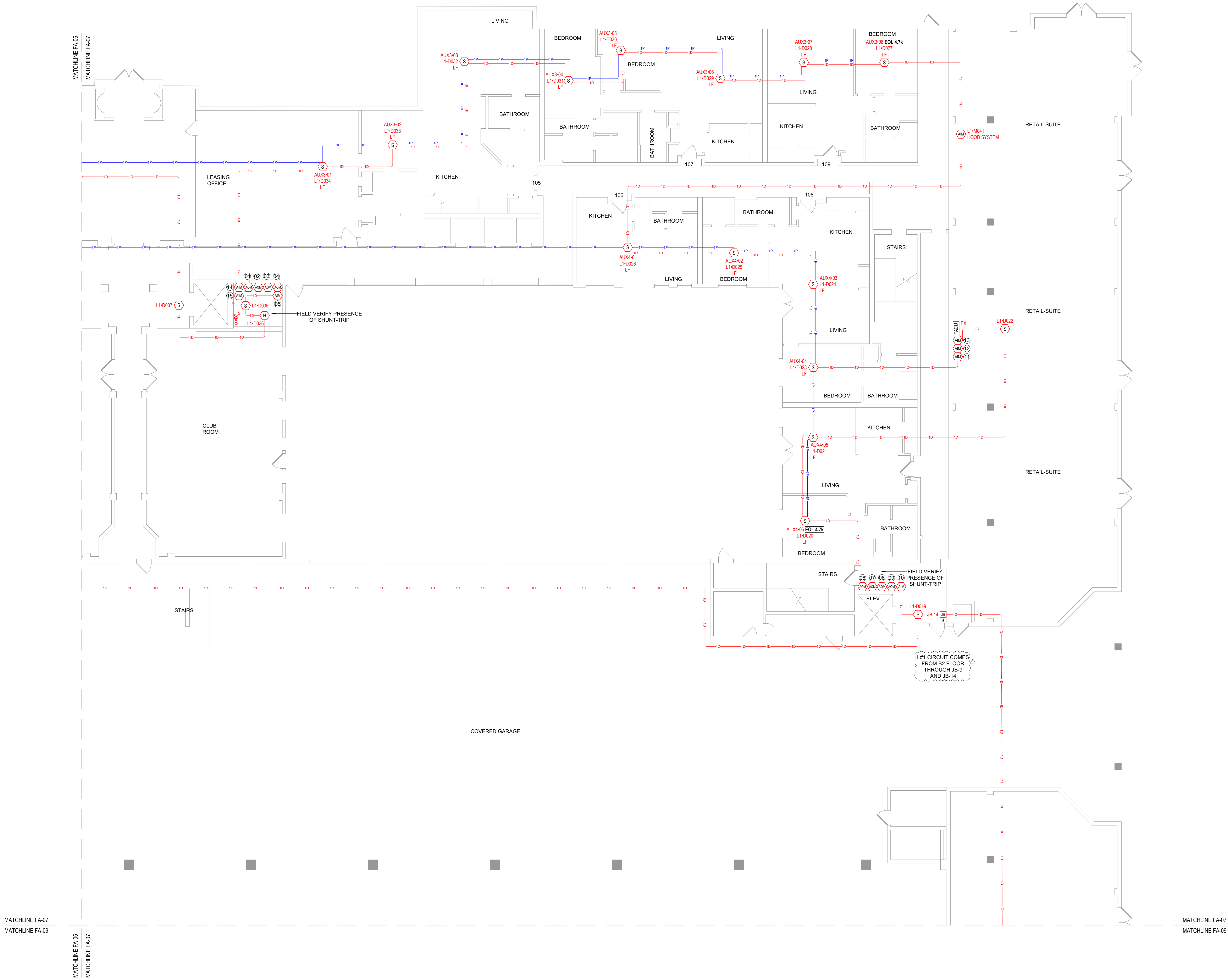
DRAWN BY: JEM SYSTEMS

DATE:	03/27/2025
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DATE:	02.27.2025
SCALE:	SEE DRAWINGS

SHEET:

FA-06



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ADM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] H LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE			
01 L1-M044 PRIMARY	02 L1-M045 ALTERNATE	03 L1-M046 HAT	
04 L1-M047 SHUNT	05 L1-M048 SHUNT	06 L1-M037 PRIMARY	
07 L1-M036 ALTERNATE	08 L1-M035 HAT	09 L1-M034 SHUNT	
10 L1-M033 SHUNT	11 L1-M040 SUPERVISORY	12 L1-M039 TROUBLE	
13 L1-M038 ALARM	14 L1-M042 WATERFLOW SWITCH	15 L1-M043 TAMPER SWITCH	

KEYPLAN

REVISION:

FIRST RELEASE

REVISION:

FIRST RELEASE

SHEET DESCRIPTION:

FIRE ALARM SYSTEM

1ST FLOOR - AREA B

DRAWN BY: JEM SYSTEMS

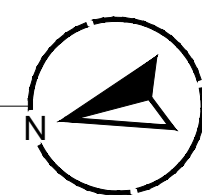
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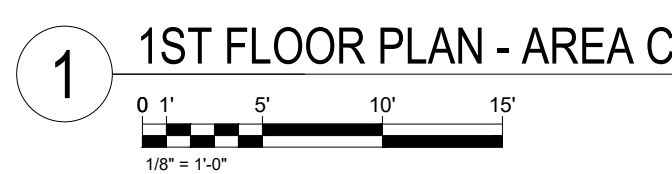
SCALE: SEE DRAWINGS

SHEET:

FA-07

1 1ST FLOOR PLAN - AREA B

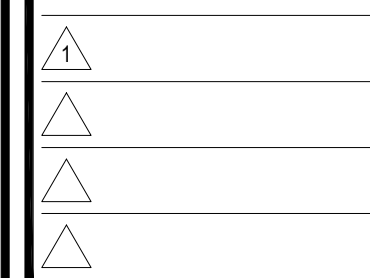




ADDRESS & LABEL REFERENCE		
①1	L1-M029 PRIMARY	③3
		L1-M027 HAT
④4	L1-M026 SHUNT	⑤5
		L1-M025 SHUNT



REVISION:
FIRST RELEASE



SHEET DESCRIPTION:
FIRE ALARM SYSTEM
1ST FLOOR - AREA C

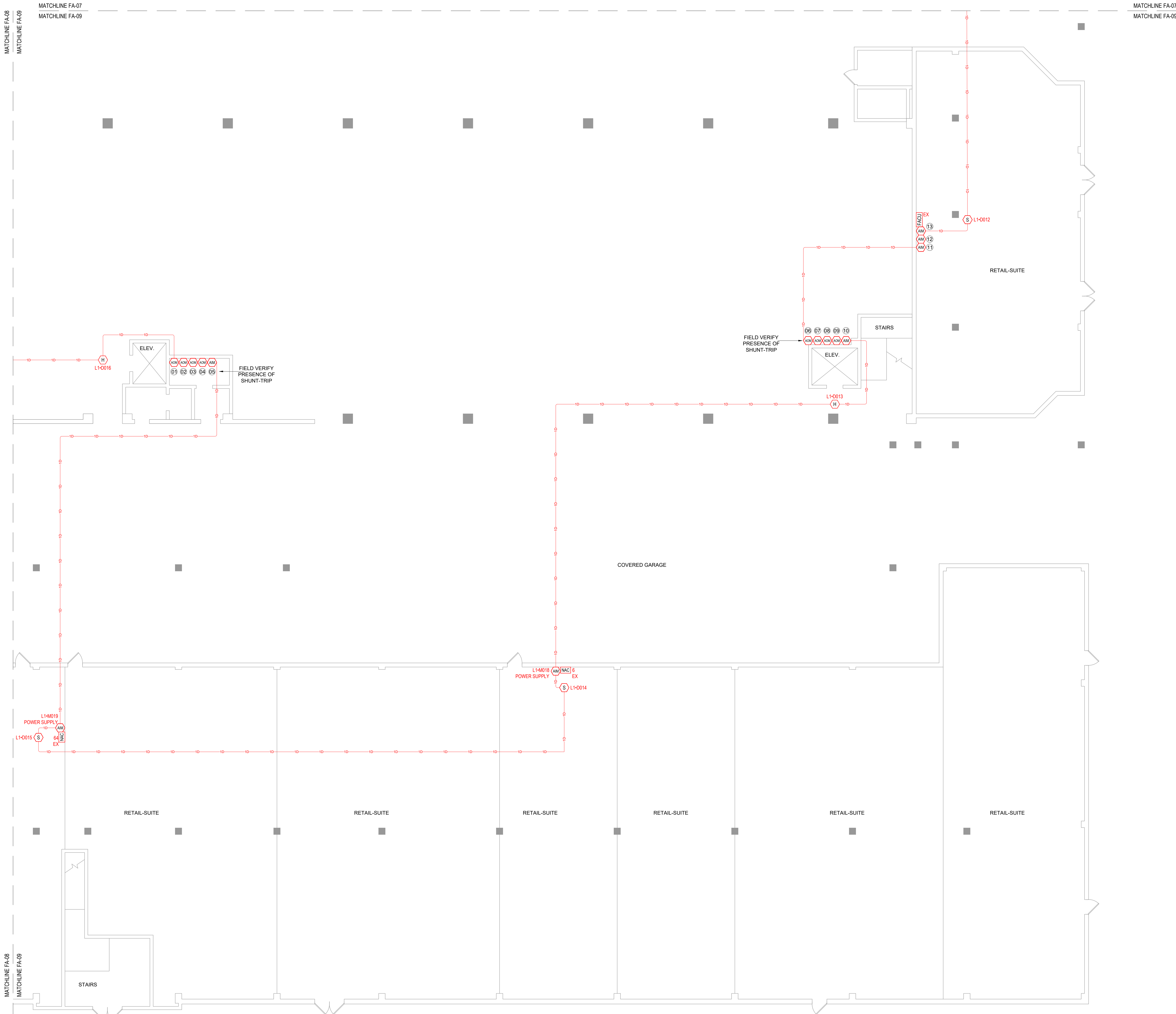
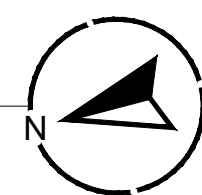
DRAWN BY: JEM SYSTEMS

DATE:	02.27.2025
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SCALE:	SEE DRAWINGS
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SHEET:

FA-08



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ADM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X [H] X [S] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

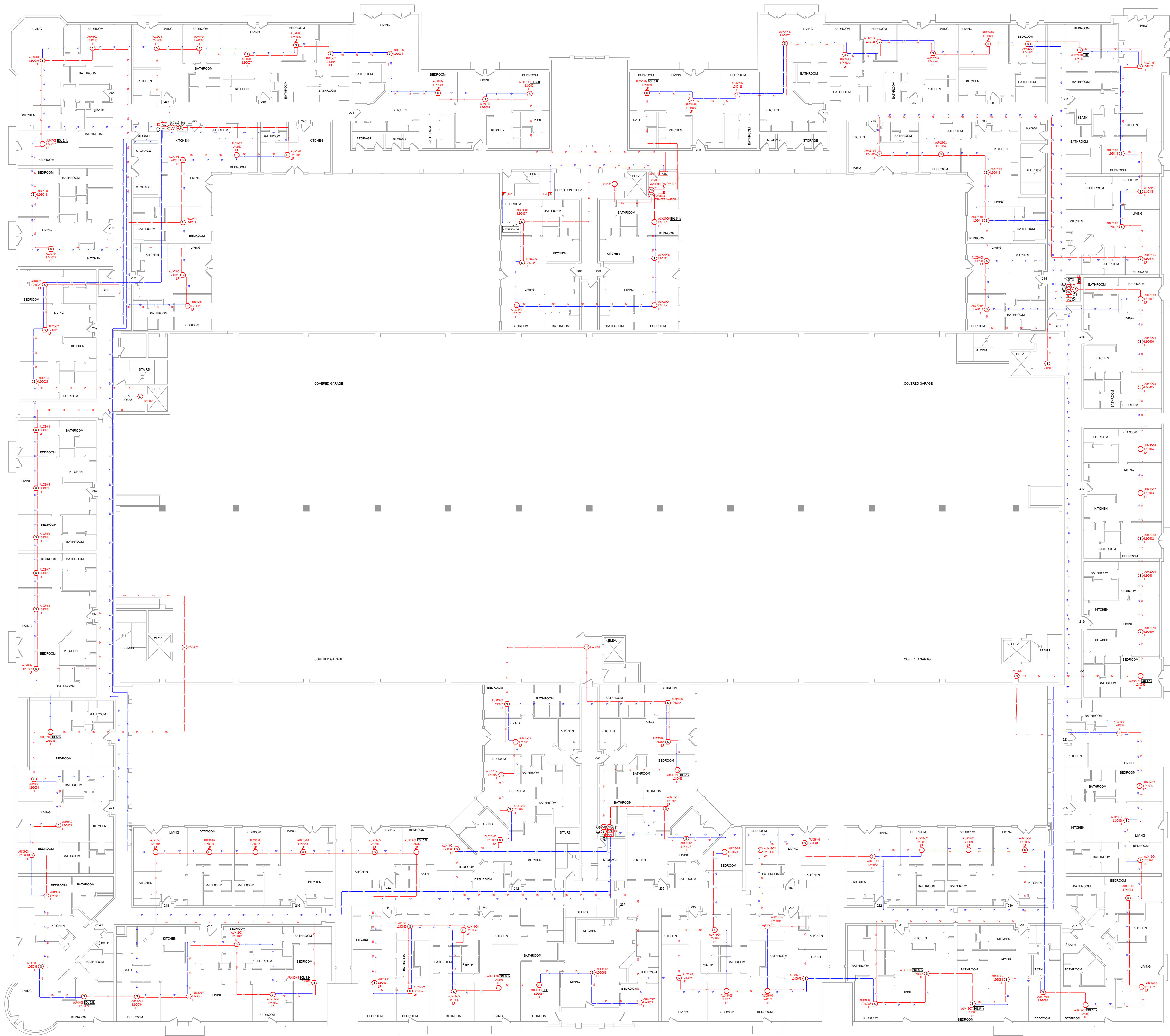
ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

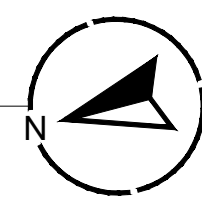
ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE			
01 L1-M024 PRIMARY	02 L1-M023 ALTERNATE	03 L1-M022 HAT	
04 L1-M021 SHUNT	05 L1-M020 SHUNT	06 L1-M013 PRIMARY	
07 L1-M014 ALTERNATE	08 L1-M015 HAT	09 L1-M016 SHUNT	
10 L1-M017 SHUNT	11 L1-M012 SUPERVISORY	12 L1-M011 TROUBLE	
13 L1-M010 ALARM			

KEYPLAN	
A	B
C	D



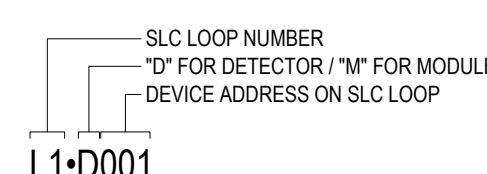
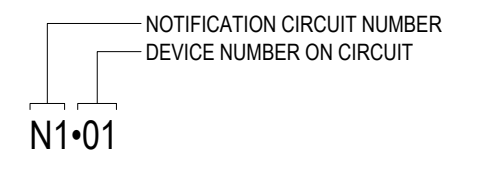
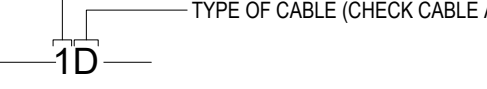
1 2ND FLOOR - OVERALL PLAN



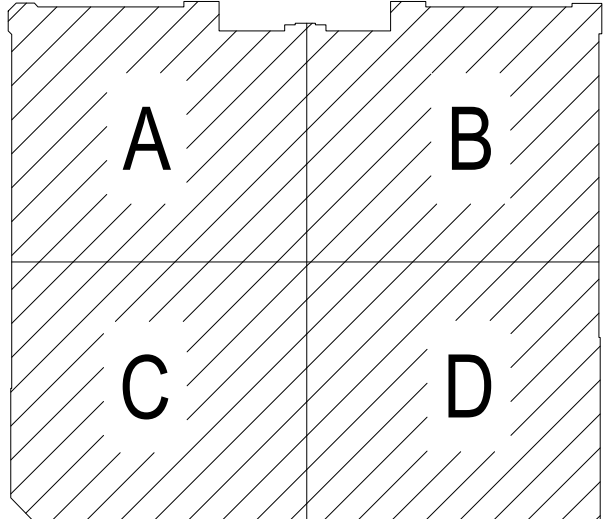
DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC 6]	HONEYWELL 6A POWER SUPPLY
[NAC 64]	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S LF]	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S/H] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
	SLC LOOP NUMBER "10" FOR DETECTOR / "1001" FOR MODULE DEVICE ADDRESS ON SLC LOOP
	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

KEYPLAN



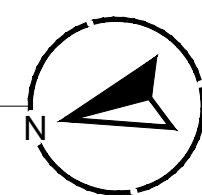
PROJECT

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
2ND FLOOR - OVERALL PLAN

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-10



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATO]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X H CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VS]	VALVE TAMPER SWITCH (BY OTHERS)
[WS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE		
01 Z01-1 EOL P-1	02 L2-M001 TROUBLE P-1	03 FACT-L2-M002 DOOR HOLDER
04 L2-D010		

KEYPLAN	
A	B
C	D

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AMB]	ADDRESSABLE MONITOR MODULE
[ACM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X H CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

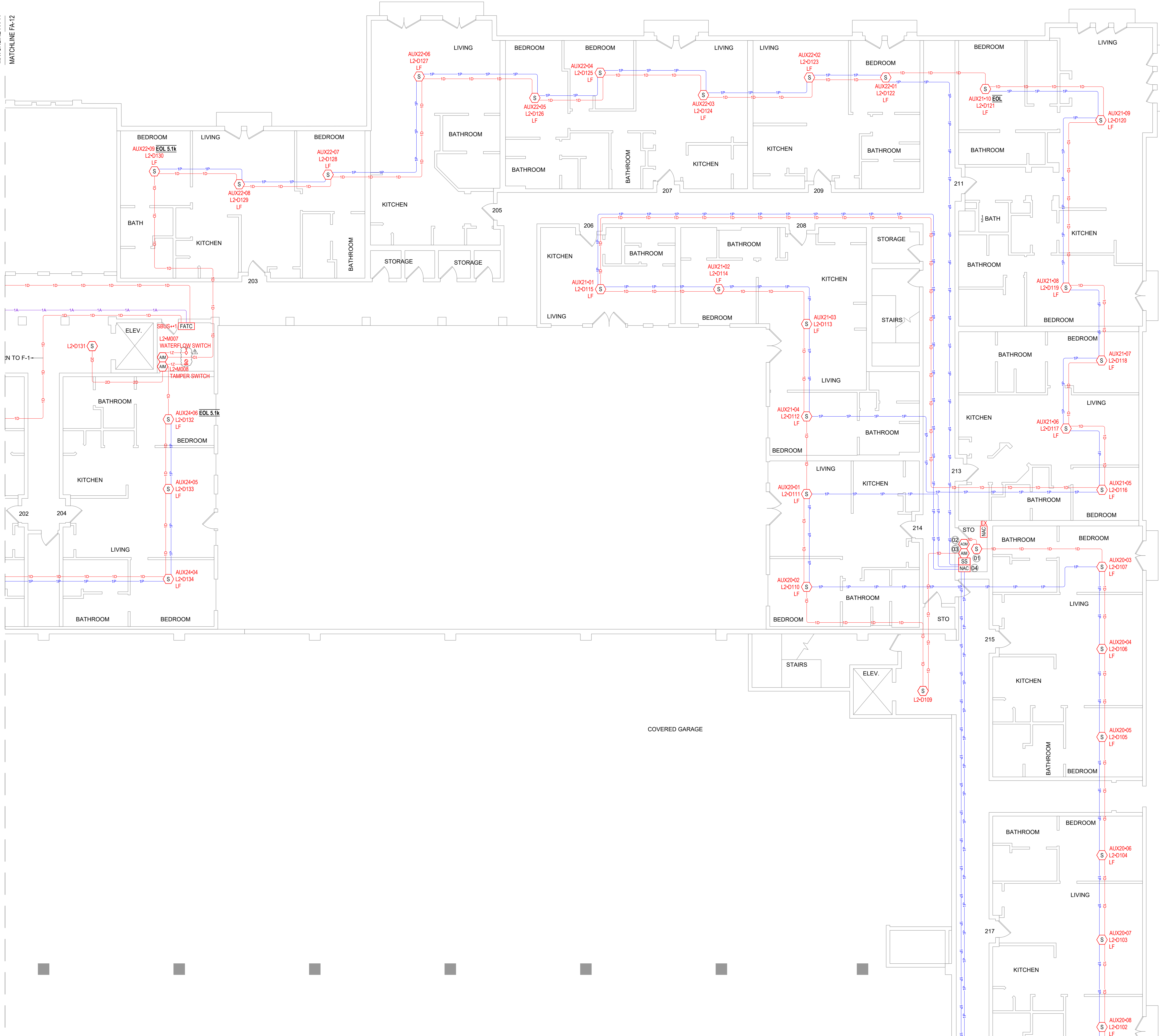
ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER "0" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE		
01 FACT1-L2-D108	02 FACT1-L2-M005 DOOR HOLDER	03 L2-M006 TROUBLE P-3
04 201-H <u>EOL</u> P-3		

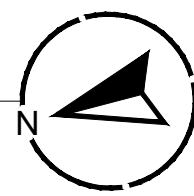
KEYPLAN	
A	B
C	D



MATCHLINE FA-12
MATCHLINE FA-14

MATCHLINE FA-12
MATCHLINE FA-14

1 2ND FLOOR PLAN - AREA B
0 1' 5' 10' 15'
1/8" = 1'-0"



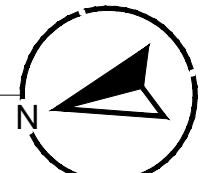
PROJECT

REVISION:	FIRST RELEASE
△	
△	
△	

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
2ND FLOOR - AREA B

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-12



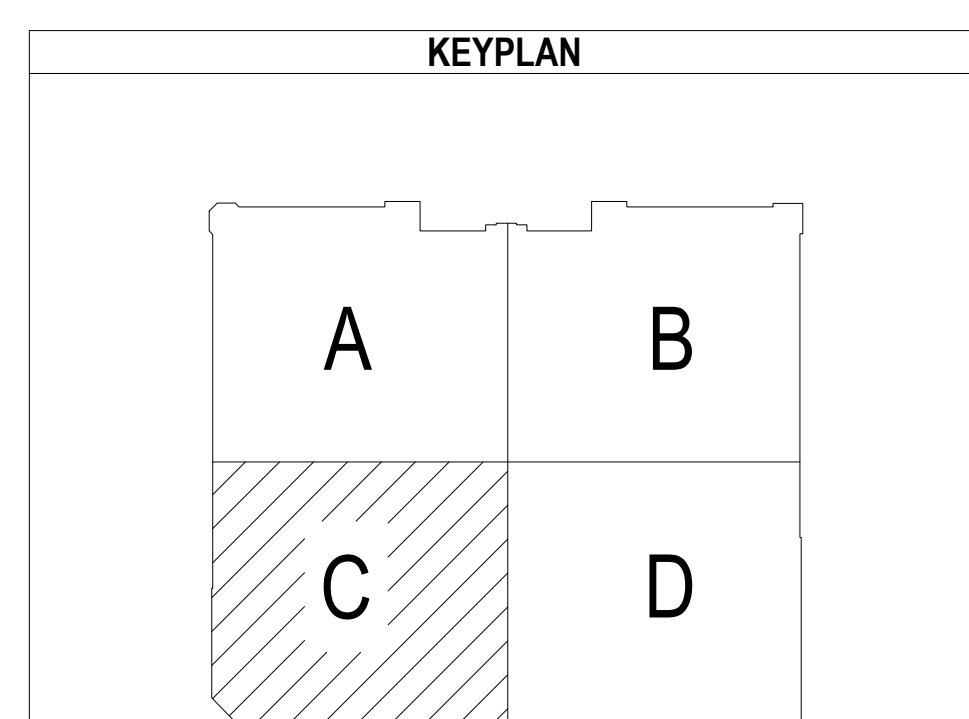
DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATO]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X [H] X [CO] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
 SLC LOOP NUMBER 10 FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP L1-D001	 NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT N1-01
 CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND) 1D	

ADDRESS & LABEL REFERENCE		
01 201-1 P-2 EOL	02 FACT1-L2-0070	03 FACT1-L2-M003 DOOR HOLDER
04 L2-0004 TROUBLE P-2		



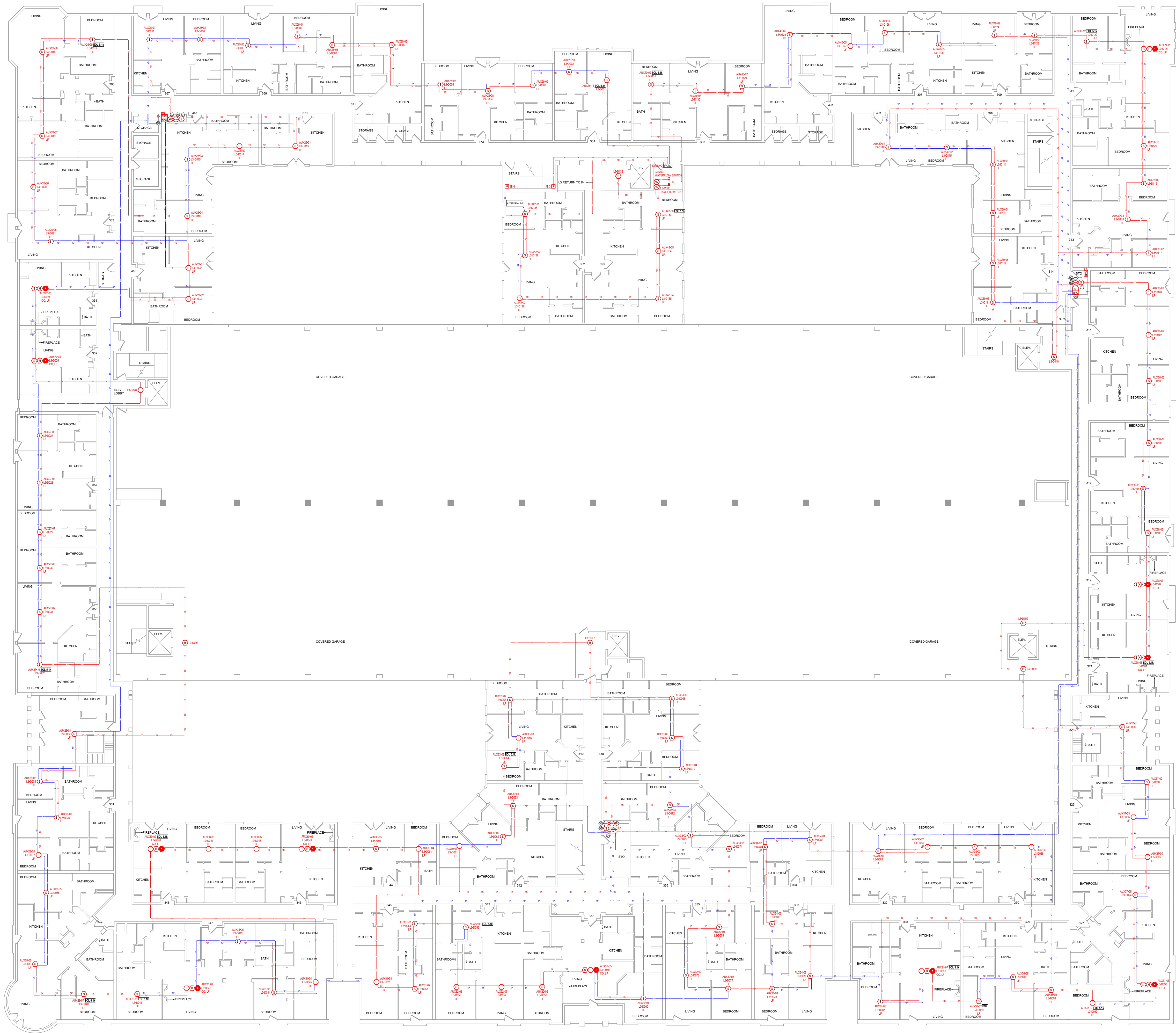
PROJECT

REVISION:
FIRST RELEASE

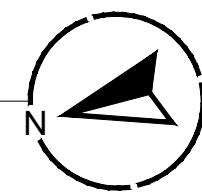
SHEET DESCRIPTION:
FIRE ALARM SYSTEM
2ND FLOOR - AREA C

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-13



1 3RD FLOOR - OVERALL PLAN



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X [H] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
	SLC LOOP NUMBER "D" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

KEYPLAN	

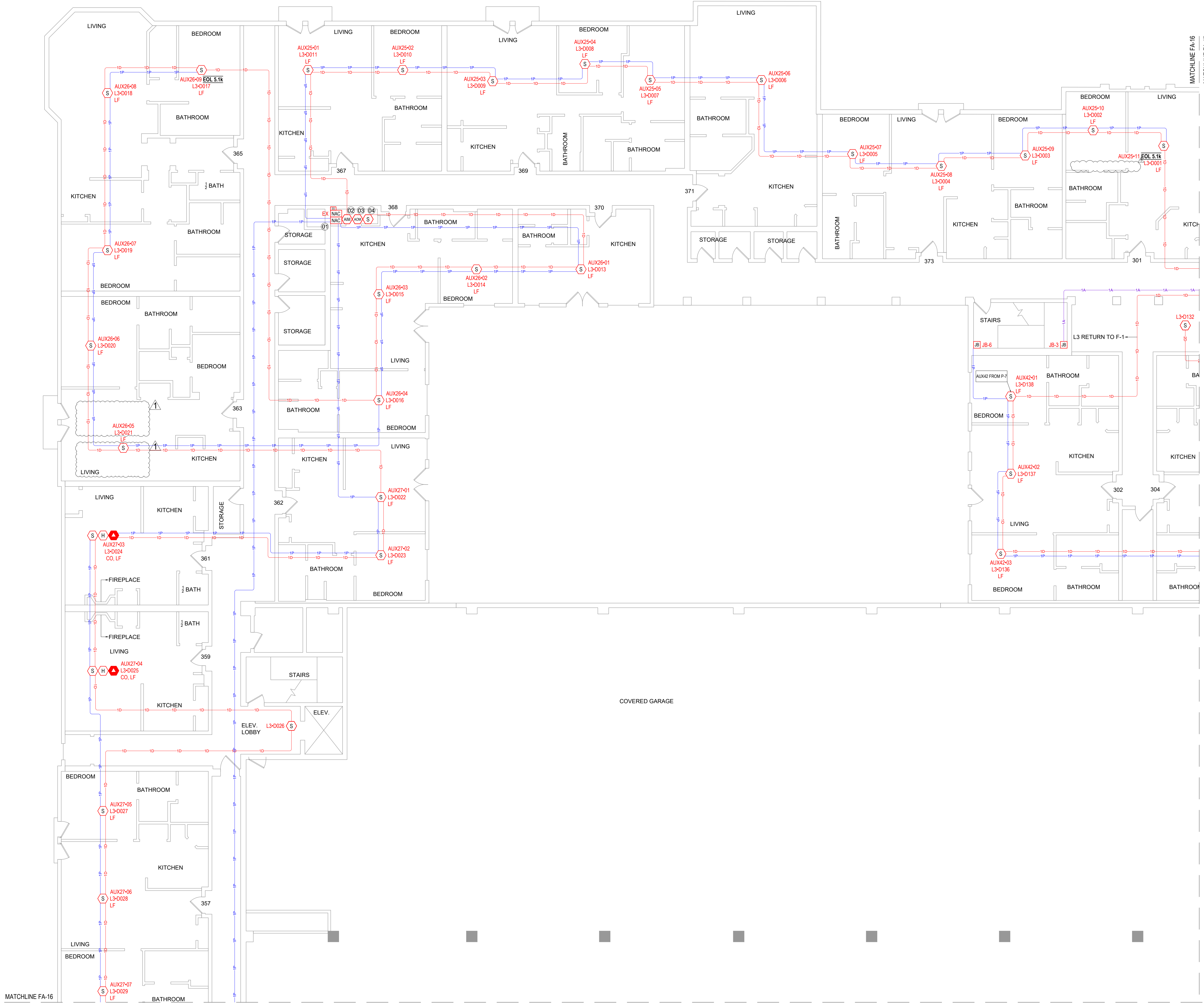
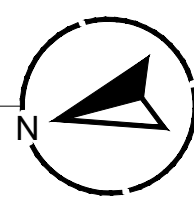
PROJECT

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
3RD FLOOR - OVERALL PLAN

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-15



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] H [S] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

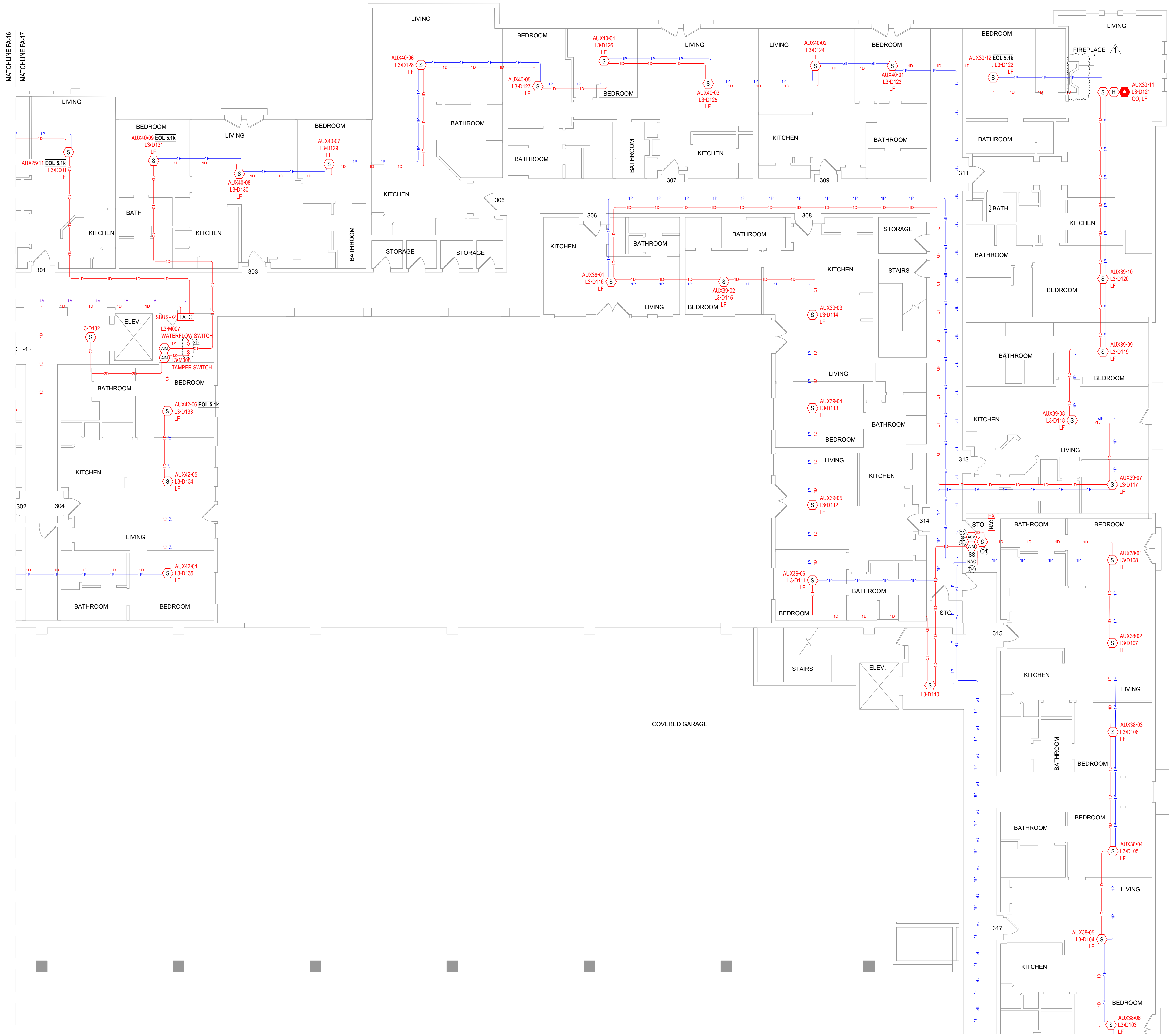
ADDRESS & LABEL REFERENCE	
01 Z01-1 EOL P-4	02 L3-M001 TROUBLE P-4
03 FACT2-L3-M002 DOOR HOLDER	04 L3-0012

KEYPLAN

SHEET DESCRIPTION
FIRE ALARM SYSTEM
3RD FLOOR - AREA A

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-16



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] H LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER "D" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE			
01	FACT24-3-D109	02	FACT24-3-M005 DOOR HOLDER
03	L3-M006 TROUBLE P-6		
04	201-1 EOL P-6		

KEYPLAN

A

B

C

D

REVISION:

FIRST RELEASE

SHEET DESCRIPTION:

FIRE ALARM SYSTEM
3RD FLOOR - AREA B

DRAWN BY:

JEM SYSTEMS

DATE:

02.27.2025

SCALE:

SEE DRAWINGS

SHEET:

FA-17

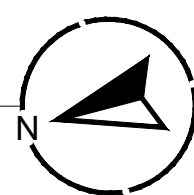
MATCHLINE FA-16
MATCHLINE FA-18

MATCHLINE FA-16
MATCHLINE FA-18

MATCHLINE FA-18
MATCHLINE FA-19

MATCHLINE FA-18
MATCHLINE FA-19

1 3RD FLOOR PLAN - AREA C



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AMB]	ADDRESSABLE MONITOR MODULE
[ACM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] [H] [S] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WTS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER "1" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE	
01 201-1 EOL P-5	02 FACT24-3-D071
04 L3-M004 TROUBLE P-5	03 FACT2-L3-M003 DOOR HOLDER

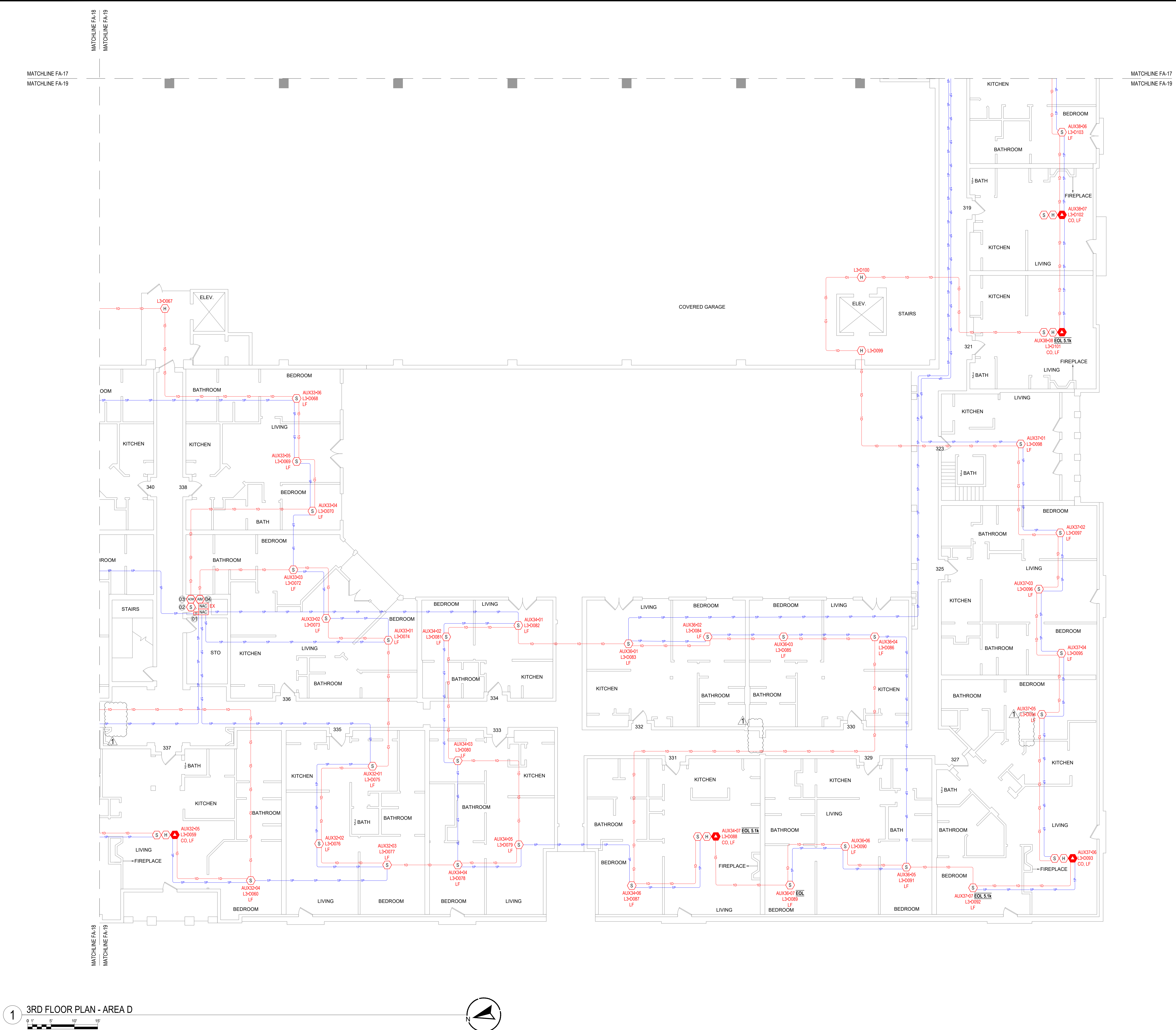
KEYPLAN	
A	B
C	D

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
3RD FLOOR - AREA C

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-18

PROJECT



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] [H] [S] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER "D" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE	
01 201-1 EOL P-5	02 FACT243-0071
03 FACT243-M003 DOOR HOLDER	
04 L3-M004 TROUBLE P-5	

KEYPLAN

A

B

C

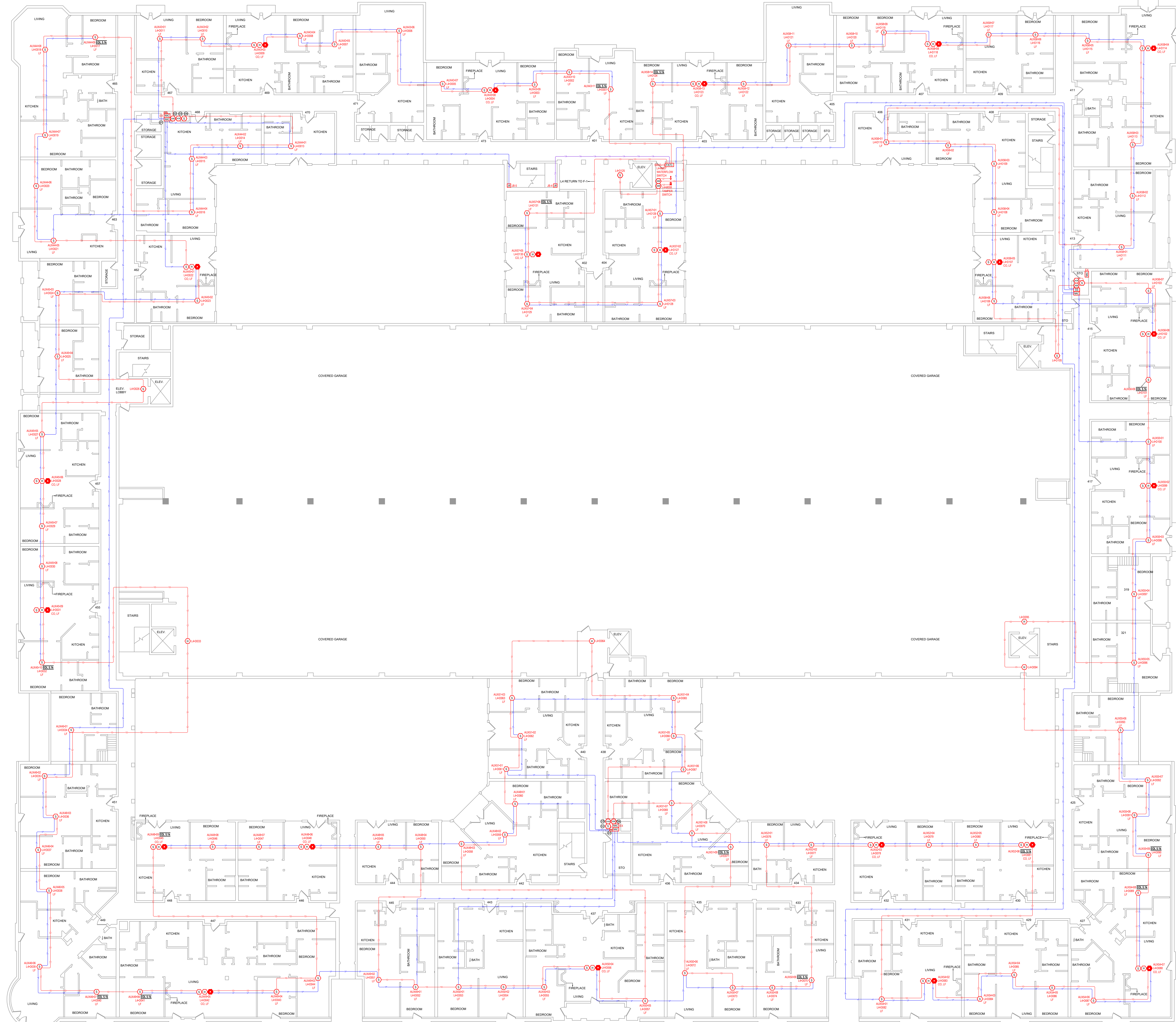
D

REVISION:
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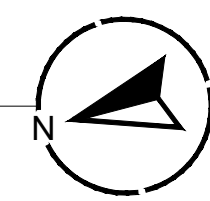
SHEET DESCRIPTION:
FIRE ALARM SYSTEM
3RD FLOOR - AREA D

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-19



1 4TH FLOOR - OVERALL PLAN



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ARM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] H [S] LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

KEYPLAN

REVISION:

FIRST RELEASE

SHEET DESCRIPTION:

FIRE ALARM SYSTEM

4TH FLOOR - OVERALL PLAN

DRAWN BY: JEM SYSTEMS

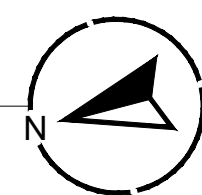
DATE: 02.27.2025

SCALE: SEE DRAWINGS

SHEET:

FA-20

1 4TH FLOOR PLAN - AREA A



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AMB]	ADDRESSABLE MONITOR MODULE
[ACM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/LF SOUNDER BASE
[S] X [H] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

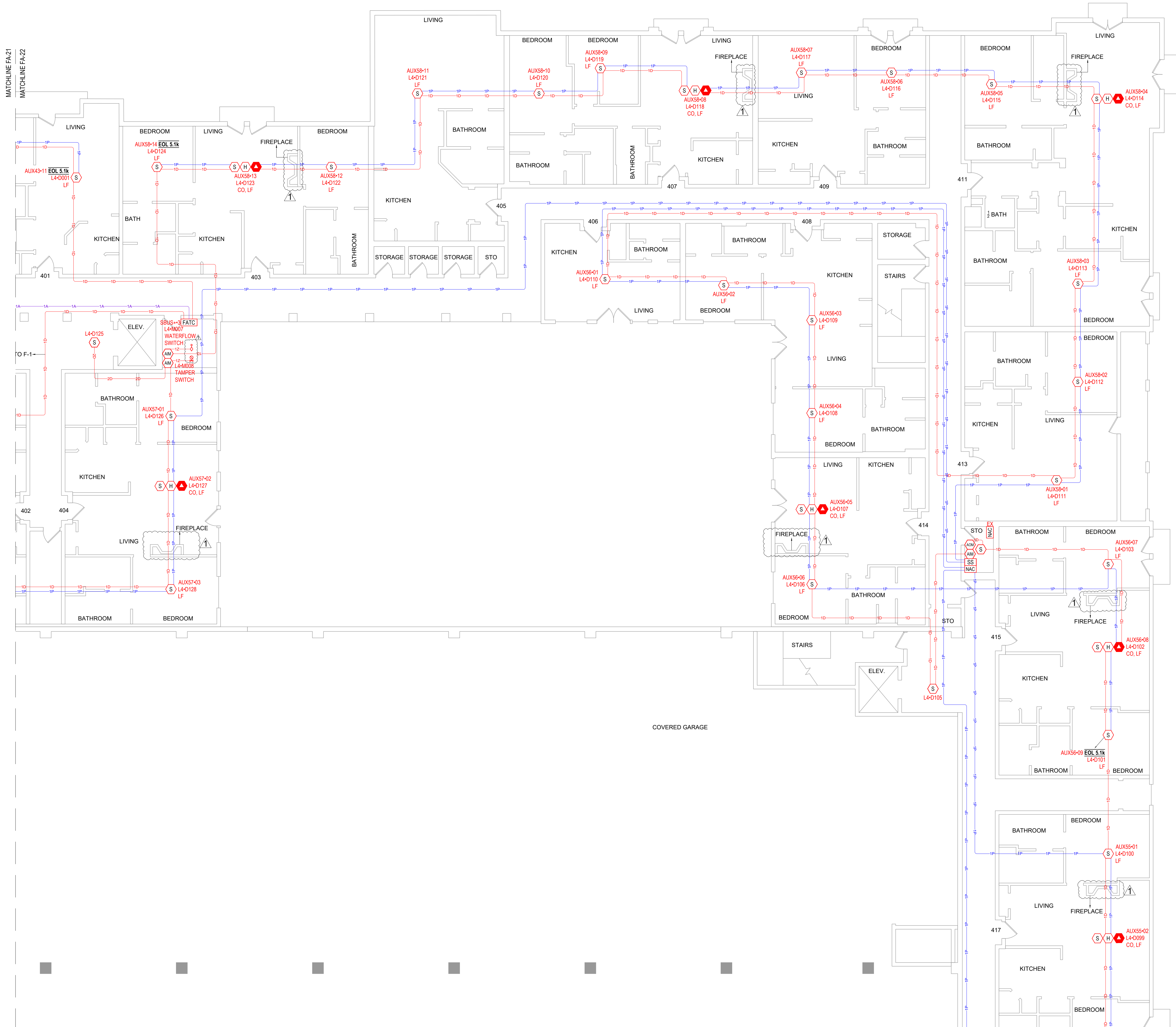
CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER "D" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE		
01 201-1 EOL P-7	02 L4-M001 TROUBLE P-7	03 FACT3-L4-M002 DOOR HOLDER
04 L4-D012		

KEYPLAN	
SHEET DESCRIPTION: FIRE ALARM SYSTEM 4TH FLOOR - AREA A	
DRAWN BY: JEM SYSTEMS DATE: 02.27.2025 SCALE: SEE DRAWINGS	
SHEET: FA-21	

PROJECT



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATC]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AM]	ADDRESSABLE MONITOR MODULE
[ADM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] X [H] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VTS]	VALVE TAMPER SWITCH (BY OTHERS)
[WFS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
SLC LOOP NUMBER "1" FOR DETECTOR / "M" FOR MODULE DEVICE ADDRESS ON SLC LOOP	L1-D001
NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT	N1-01
CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)	1D

ADDRESS & LABEL REFERENCE			
01 FACT34-L0104	02 FACT34-M005 DOOR HOLDER	03 L4-M006 TROUBLE P-9	
04 Z01-1 EOL P-9			

KEYPLAN

A

B

C

D

REVISION:

FIRST RELEASE

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SHEET DESCRIPTION:

FIRE ALARM SYSTEM

4TH FLOOR - AREA B

DRAWN BY:

JEM SYSTEMS

DATE:

02.27.2025

SCALE:

SEE DRAWINGS

SHEET:

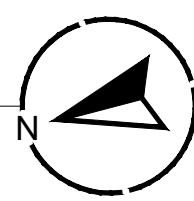
FA-22

MATCHLINE FA-21
MATCHLINE FA-23

MATCHLINE FA-23
MATCHLINE FA-24

MATCHLINE FA-21
MATCHLINE FA-23

1 4TH FLOOR PLAN - AREA C
0 1' 5' 10' 15'
1/8" = 1'-0"



DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL PANEL
[DOC]	DOCUMENT BOX
[FATO]	FIRE ALARM TERMINAL CABINET
[NAC]	POTTER 10A POWER SUPPLY
[NAC] 6	HONEYWELL 6A POWER SUPPLY
[NAC] 64	POTTER 6A POWER SUPPLY
[CELL]	COMMUNICATOR
[AMB]	ADDRESSABLE MONITOR MODULE
[ACM]	ADDRESSABLE RELAY MODULE
[F]	ADDRESSABLE MANUAL PULL STATION
[H]	ADDRESSABLE HEAT DETECTOR
[S]	ADDRESSABLE SMOKE DETECTOR W/ STANDARD BASE
[S] LF	WHITE, LOW-PROFILE PHOTOELECTRIC SENSOR W/ LF SOUNDER BASE
[S] [H] [S] CO, LF	ADDRESSABLE SMOKE/CO DETECTOR WITH LF SOUNDER BASE
[SS]	SURGE PROTECTION
[VS]	VALVE TAMPER SWITCH (BY OTHERS)
[WS]	WATERFLOW SWITCH (BY OTHERS)

ABBREVIATIONS	
OSAY	OUTSIDE SCREW AND YOKE

CABLE AND WIRE LEGEND		
LABEL	AWG	DESCRIPTION
A	18	ANNUNCIATOR - 4 COND. SOLID COPPER FPLP ANALOG UNSHIELDED
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED
P	14	AUX POWER - 2 COND. SOLID COPPER FPLP UNSHIELDED
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED

ADDRESS & LABEL CLARIFICATION	
L1-D001	SLC LOOP NUMBER 10" FOR DETECTOR / 1/4" FOR MODULE DEVICE ADDRESS ON SLC LOOP
N1-01	NOTIFICATION CIRCUIT NUMBER DEVICE NUMBER ON CIRCUIT
1D	CABLE QUANTITY TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

ADDRESS & LABEL REFERENCE		
01 201-1 <u>EOL</u> P-8	02 FACT3-L4-D068	03 FACT3-L4-M003 DOOR HOLDER
04 L4-M004 TROUBLE P-8		

KEYPLAN	
A	B
C	D

PROJECT

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
4TH FLOOR - AREA C

DRAWN BY: JEM SYSTEMS
DATE: 02.27.2025
SCALE: SEE DRAWINGS

SHEET:
FA-23

