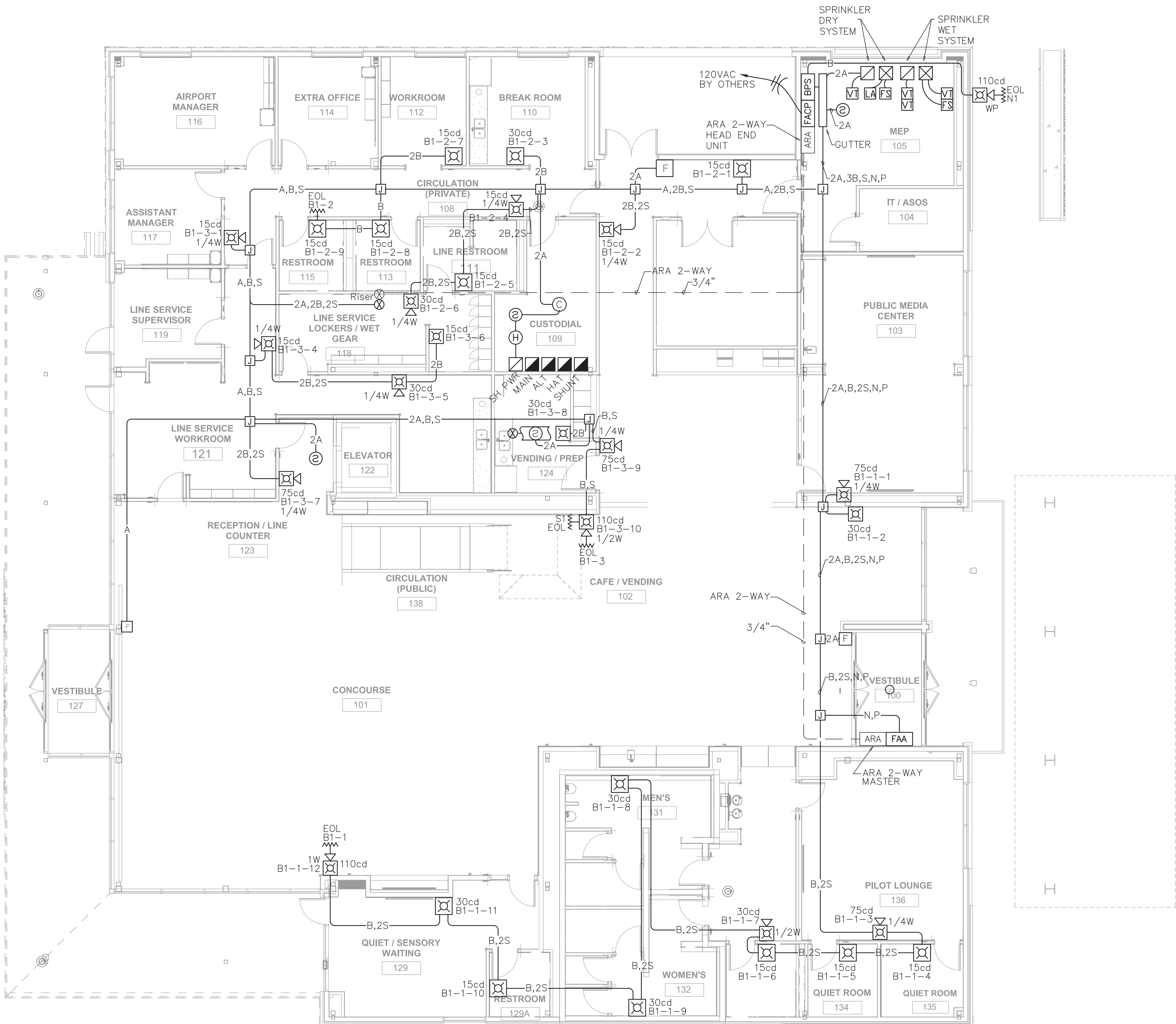
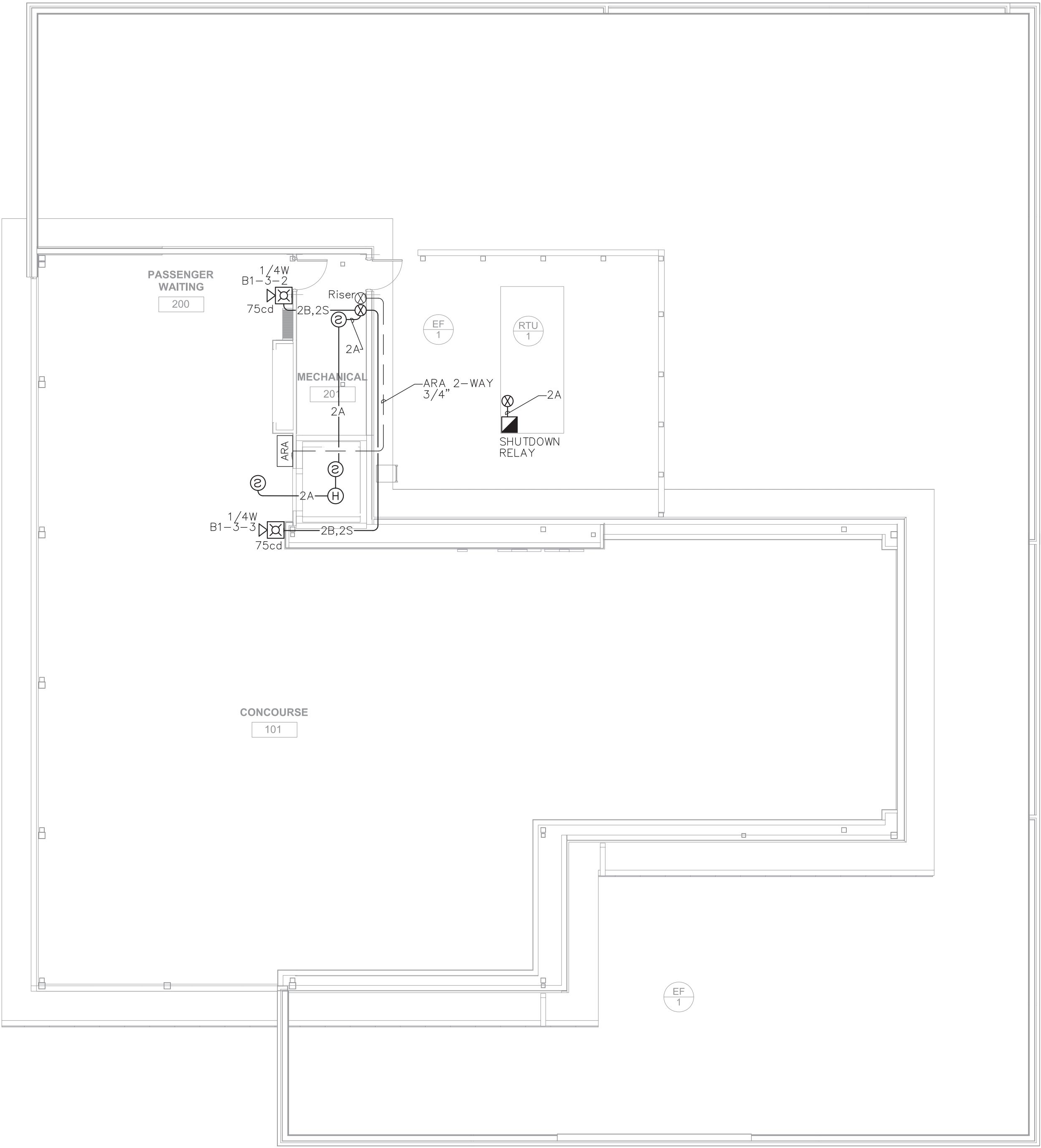


RELEASED FOR CONSTRUCTION
As Noted on Plan Review

Lee's Summit Fire Department
Lee's Summit, Missouri

03/02/2026



FIRE ALARM PLAN
SCALE: 1/8"=1'-0"

CODE COMPLIANCE:
2018 EDITION IBC
2016 EDITION NFPA72



P.O. BOX 815
BLUE SPRINGS, MO 64013
PHONE:
816-220-0665
FAX:
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REVISION:

FIRE ALARM PLAN
KC - LEE'S SUMMIT REGIONAL
GENEAL AVIATION TERMINAL - CITY PROJECT - 17932172
LEE'S SUMMIT, MISSOURI

2720 NE Hagan Rd
Lee's Summit, MO 64064

SEAL



DRAWN BY: KGCAD
DATE: 02-13-2026

REVIEWED BY: DATE:

SHEET NUMBER: FA 01

SYMBOL LEGEND— EST 4

SYMBOL	PART NO.	DESCRIPTION	BACK BOX	MOUNTING HGT
	EST4	EST 4 FIRE ALARM PANEL W/VOICE	INCLUDED	72" AFF TO TOP
	BPS6	NAC POWER SUPPLY	INCLUDED	N/A
	4-ANN	REMOTE ANNUNCIATOR	CUSTOM BACK BOX	TBD
	SIGA-OSD	SMOKE DETECTOR	4" OCTAGON	CEILING
	SIGA-HFS	HEAT DETECTOR	4" OCTAGON	CEILING
	SIGA-SD	DUCT DETECTOR R=RETURN S=SUPPLY	N/A	N/A
	SIGA-27B	MANUAL PULL STATION	SINGLE GANG x 2-1/2" DEEP	BOTTOM OF J-BOX 44" AFF
	SIGA-COD	CARBON MONOXIDE DETECTOR	4" SQUARE x 2-1/8" DEEP	CEILING
	G4SVWF	MULTI CANDELA WALL SPEAKER/STROBE W = WATTAGE S# = SPEAKER CIRCUIT	4" SQUARE x 2-1/8" DEEP	BOTTOM OF J-BOX 82" AFF
	G4SWF	SPEAKER - WALL MOUNT HIGH FIDELITY S# = SPEAKER CIRCUIT W = WATTAGE	4" SQUARE x 2-1/8" DEEP	BOTTOM OF J-BOX 82" AFF
	G1VWF	MULTI CANDELA STROBE - WHITE-LED	SINGLE GANG x 2-1/2" DEEP	BOTTOM OF J-BOX 82" AFF
	WG4RF-HVMC	WALL MOUNT HORN / STROBE WEATHERPROOF	4" SQUARE WP CUSTOM	BOTTOM OF J-BOX 82" AFF
	G4VWF	MULTI CANDELA STROBE - WHITE-LED	SINGLE GANG x 2-1/2" DEEP	BOTTOM OF J-BOX 82" AFF
	SIGA-CC1S	RISER CONTROL MODULE	DOUBLE GANG x 2-1/2" DEEP	B.O.
	BY OTHERS	WATERFLOW SWITCH	B.O.	B.O.
	BY OTHERS	TAMPER SWITCH	B.O.	B.O.
	SD-TRK	REMOTE TEST / RESET SWITCH	SINGLE GANG	
	SIGA-CT1	MONITOR MODULE	4" SQUARE 1 GANG RING	N/A
	SIGA-CR	ADDRESSABLE RELAY	4" SQUARE 1 GANG RING	N/A
	SIGA-WTM	WATERFLOW AND TAMPER DUAL INPUT MONITOR MODULE	4" SQUARE 1 GANG RING	N/A
	SIGA-CT2	DUAL INPUT MONITOR MODULE	4" SQUARE 1 GANG RING	N/A
	SIGA-CRH	ADDRESSABLE RELAY - HIGH CAPACITY	4" SQUARE x 2-1/8" DEEP	N/A

GENERAL NOTES

- ELECTRICAL CONDUIT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE NATIONAL ELECTRIC CODE, NFPA STANDARD, STATE AND LOCAL BUILDING REQUIREMENTS.
- REFER TO THE WIRE LEGEND FOR APPLICABLE CONDUCTOR TYPE AND SIZE.
- SIGNALING LINE CIRCUITS MAY BE "TEE-TAPPED" ONLY WHERE SHOWN ON DRAWING OR APPROVED OF BY SYSTEM ENGINEER. NOTIFICATION CIRCUITS, NO "TEE-TAPPING" IS ALLOWED.
- POWER LIMITED CIRCUITS SHALL BE ISOLATED FROM NON-POWER LIMITED CIRCUITS, ELECTRIC LIGHTS, OR POWER CIRCUITS BY A MINIMUM OF 2 INCHES. POWER LIMITED CIRCUITS SHALL NOT BE PLACED IN THE SAME CONDUIT, ENCLOSURE, RACEWAY, ETC., WITH NON-POWER LIMITED CIRCUITS.
- ALL FIRE RATED WALL AND/OR FLOOR PENETRATIONS SHALL BE SEALED WITH AN APPROVED FIRE STOPPING COMPOUND.
- ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED OR LABELED FOR DISTINCT IDENTIFICATION.
- ALL FIRE ALARM CONDUIT SHALL BE SIZED PER NEC, 3/4" MINIMUM.
- FACP MONITORING - LOOP START PHONE LINES TO FIRE ALARM PANEL, DACT, OR APPROVED ALTERNATE COMMUNICATION METHOD SHALL BE PER 2016 EDITION OF NFPA 72
- ALL FIRE ALARM CONTROL PANELS REQUIRE A DEDICATED 120VAC CIRCUIT. CONNECT A 12AWG COPPER GROUND WIRE FROM SAFETY GROUND IN THE ELECTRICAL DISTRIBUTION PANEL TO ALL FIRE ALARM CONTROL PANELS.
- INSTALL WALL MOUNT NOTIFICATION APPLIANCES 80" AFF OR 6" BELOW CEILING, WHICHEVER IS LOWER. THE ENTIRE LENS OF ALL STROBES MUST BE WITHIN THIS AREA UNLESS OTHERWISE NOTED. CEILING DEVICES SHALL BE MOUNTED SO THAT STROBE IS VIEWABLE FROM ALL DIRECTIONS. FOR HIGH CEILINGS, DEVICES SHALL BE PENDANT MOUNTED NO HIGHER THAN 30' AFF.
- ALL SMOKE DETECTORS SHALL BE MOUNTED NO CLOSER THAN 3 FEET FROM ANY SUPPLY OR RETURN AIR OPENING.
- HVAC SHUTDOWN WIRING FROM RELAY TO UNIT CONRTOLS BY OTHERS
- PER NFPA 72, SMOKE DETECTORS SHALL NOT BE INSTALLED UNTILL AFTER FINAL CLEAN UP. UNLESS AUTHORIZED BY THOSE TAKING RESPONSABILITY FOR DIRTY DETECTORS.
- SYSTEM DESIGN BASED ON COMPLIANCE WITH 2016 EDITION OF NFPA 72 & 2018 EDITION OF IBC.

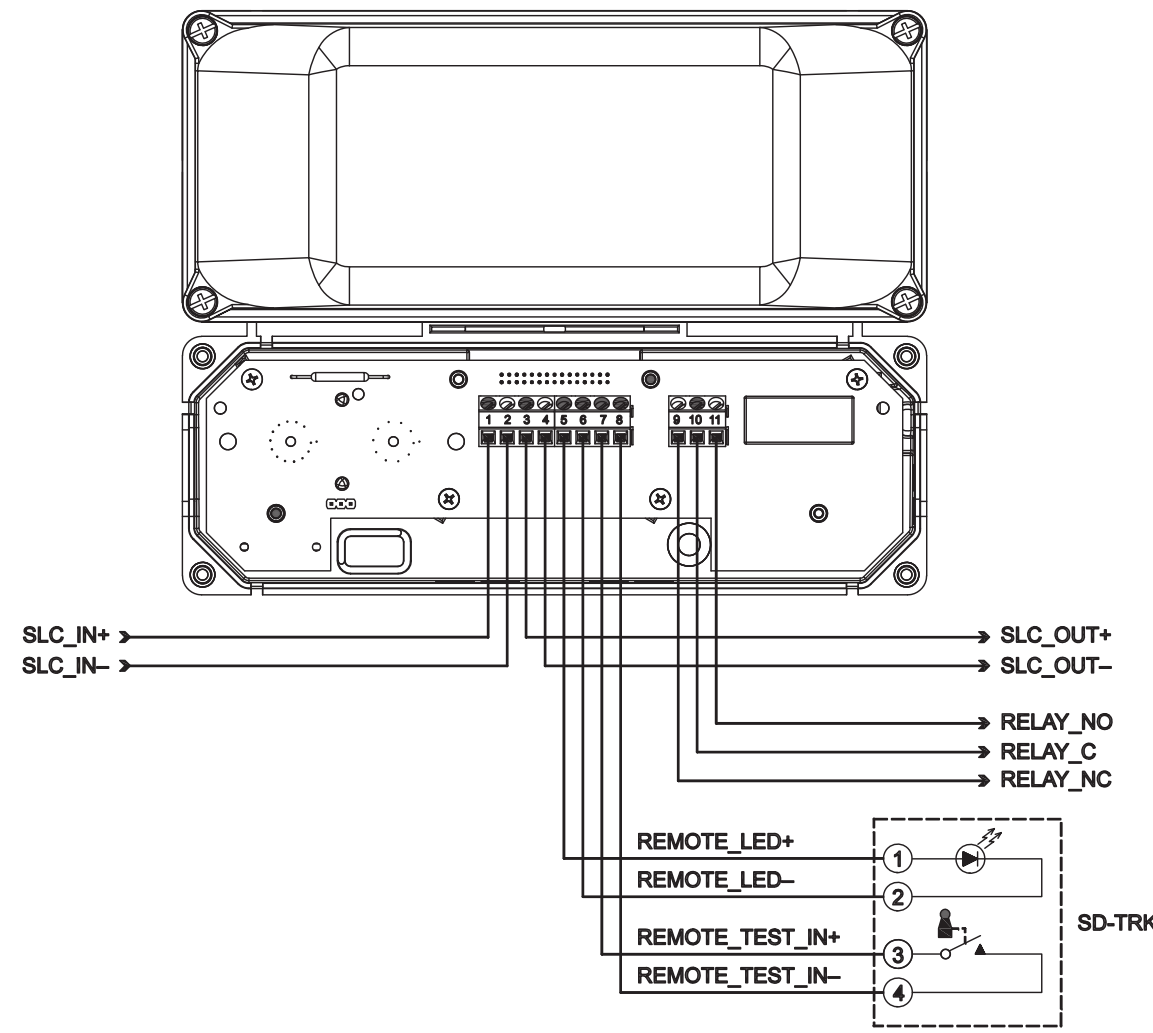
EST 4 STANDARD WIRE LEGEND

A	SIGNATURE DEVICE CIRCUIT - SLC 18AWG SOLID, 2 CONDUCTOR, TWSTD. CABLE
B	NOTIFICATION APPLIANCE CIRCUIT 14AWG SOLID, 2 CONDUCTOR, TWSTD. CABLE
N	FACP NETWORK COMMUNICATIONS CIRCUIT - RS485 18AWG SOLID, 2 CONDUCTOR, TWSTD. CABLE
P	24VDC POWER CIRCUIT 14AWG SOLID, 2 CONDUCTOR, TWSTD. CABLE
S	VOICE NOTIFICATION APPLIANCE CIRCUIT 16AWG SOLID, 2 CONDUCTOR, TWSTD

RECOMMENDED CONDUIT
SIZING CHART

NO. OF CABLES	CONDUIT SIZE
4 OR LESS	3/4"
5 TO 7	1"
8 TO 12	1-1/4"
13 TO 16	1-1/2"
17 TO 27	2"

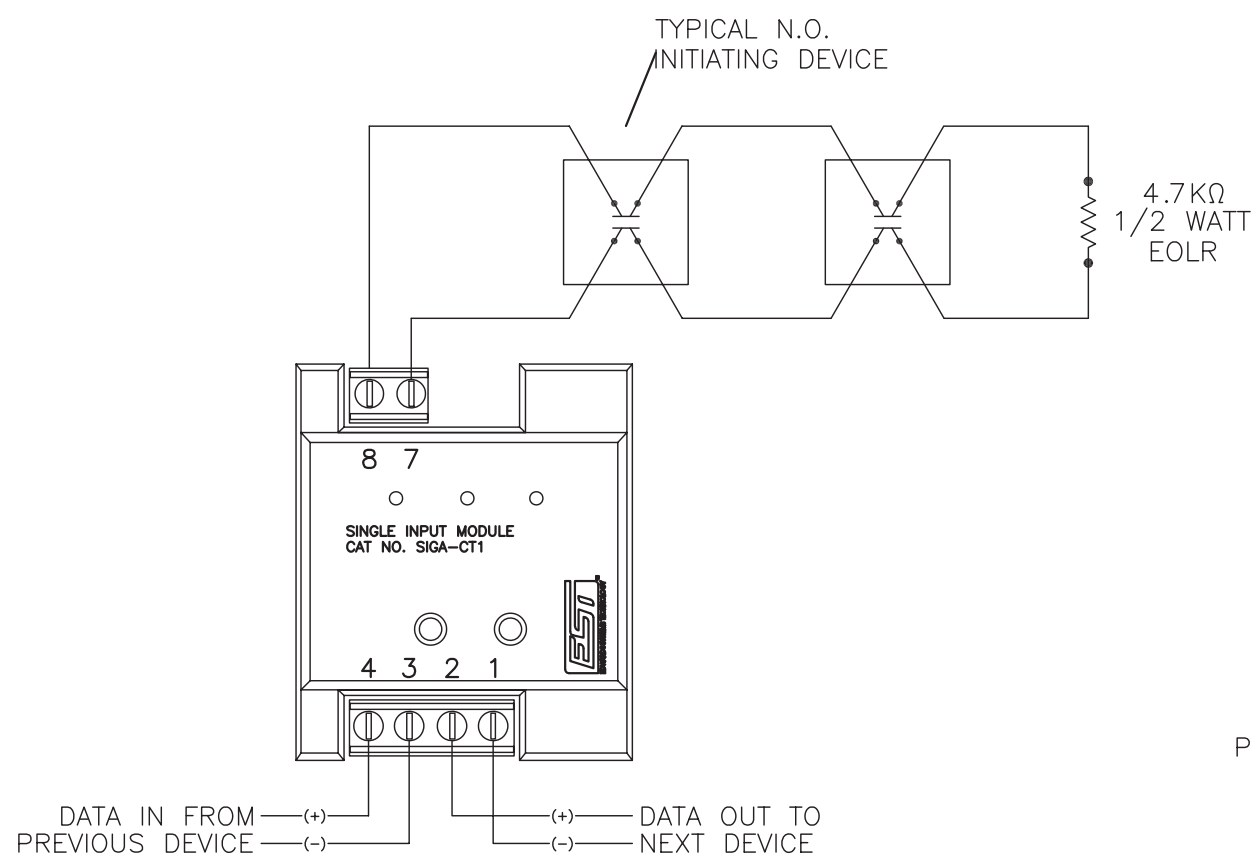
SIZING IS BASED ON EACH CABLES
MAXIMUM OVERALL DIAMETER OF .215
AT 75% MAXIMUM LISTED FILL



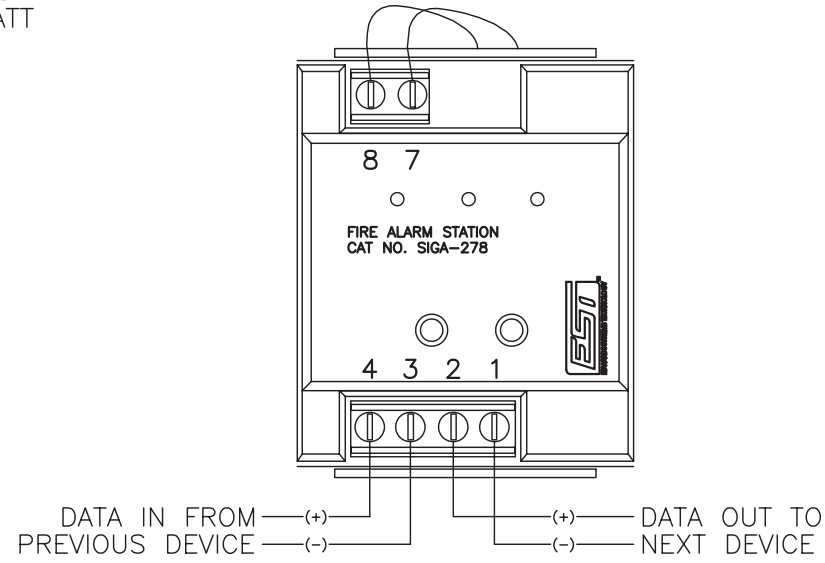
SIGA-DDOS WIRING DIAGRAM
NTS

SYSTEM INPUTS	ALARM	SUPERVISORY	PROBLEM	REPORT TO FIRE ALARM CONTROL PANEL	REPORT TO SUPERVISORY PANEL	ACTIVATE GENERAL FIRE ALARM AUDIBLE/VISIBLE NOTIFICATION APPLIANCES	ACTIVATE INDIVIDUAL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT AND DAMPER(S)	SHUTDOWN AL FAN POWERED MECHANICAL AIR HANDLING EQUIPMENT AND DAMPER(S)	WHITE ELEVATOR RECALL TO PRIMARY FLOOR	WHITE ELEVATOR RECALL TO ALTERNATE FLOOR
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN										
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT										
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND										
FIRE ALARM CONTROL PANEL LOSS OF POWER										
MANUAL PULL STATION										
SMOKE DETECTOR - SPOT TYPE										
SMOKE DETECTOR - DUCT MOUNTED										
HEAT DETECTOR - SPOT TYPE										
WATERFLOW ALARM SWITCH										
VALVE TAMPER SWITCH										
DRY SYSTEM LOW AIR										
SMOKE DETECTOR - ELEVATOR LOBBY - PRIMARY FLOOR										
SMOKE DETECTOR - ELEVATOR LOBBY - ALTERNATE FLOOR(S)										
SMOKE DETECTOR - HOISTWAY (IF DEVICE USED)										
HEAT DETECTOR - ABOVE ELEVATOR CONTROLLER										

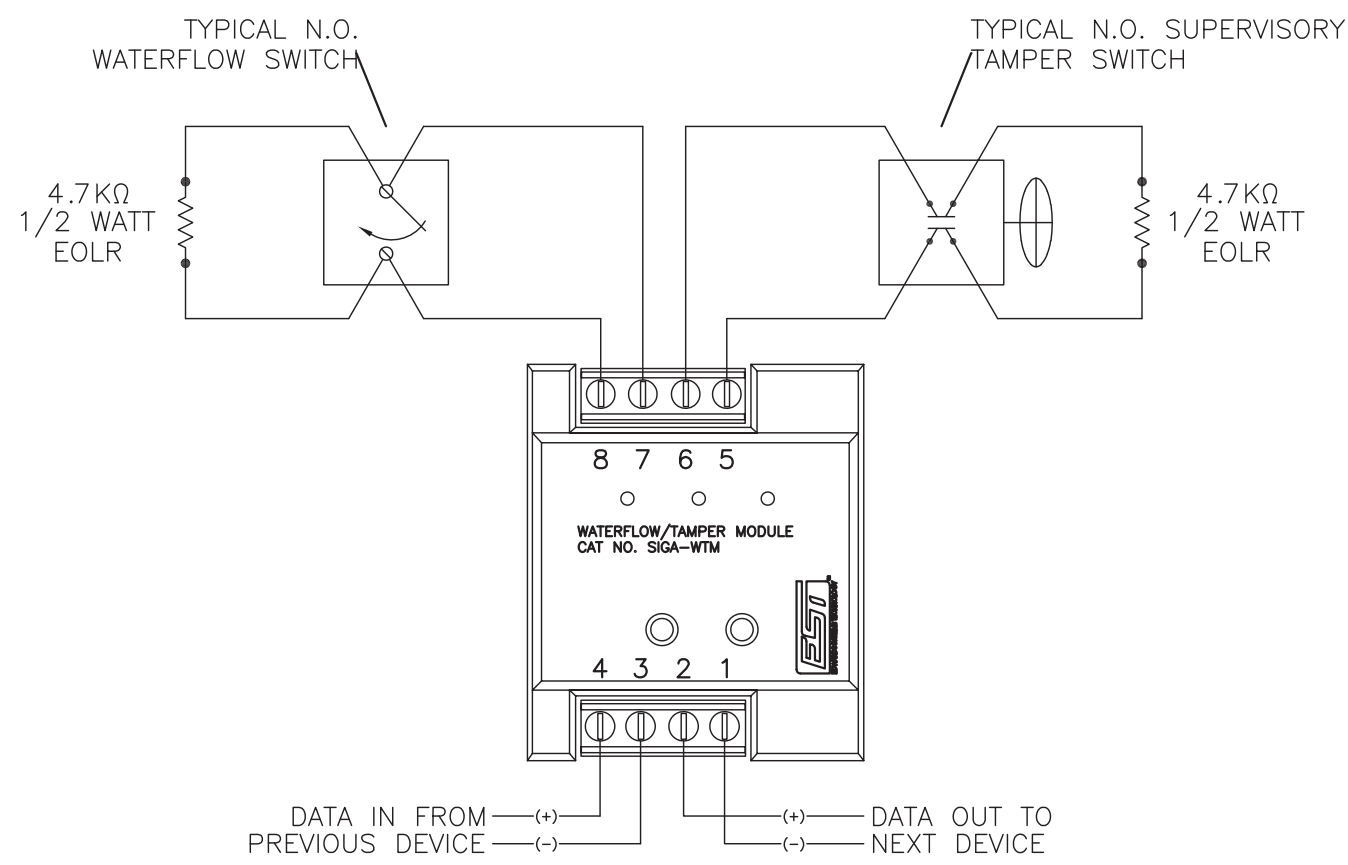
SYSTEM OPERATIONAL MATRIX



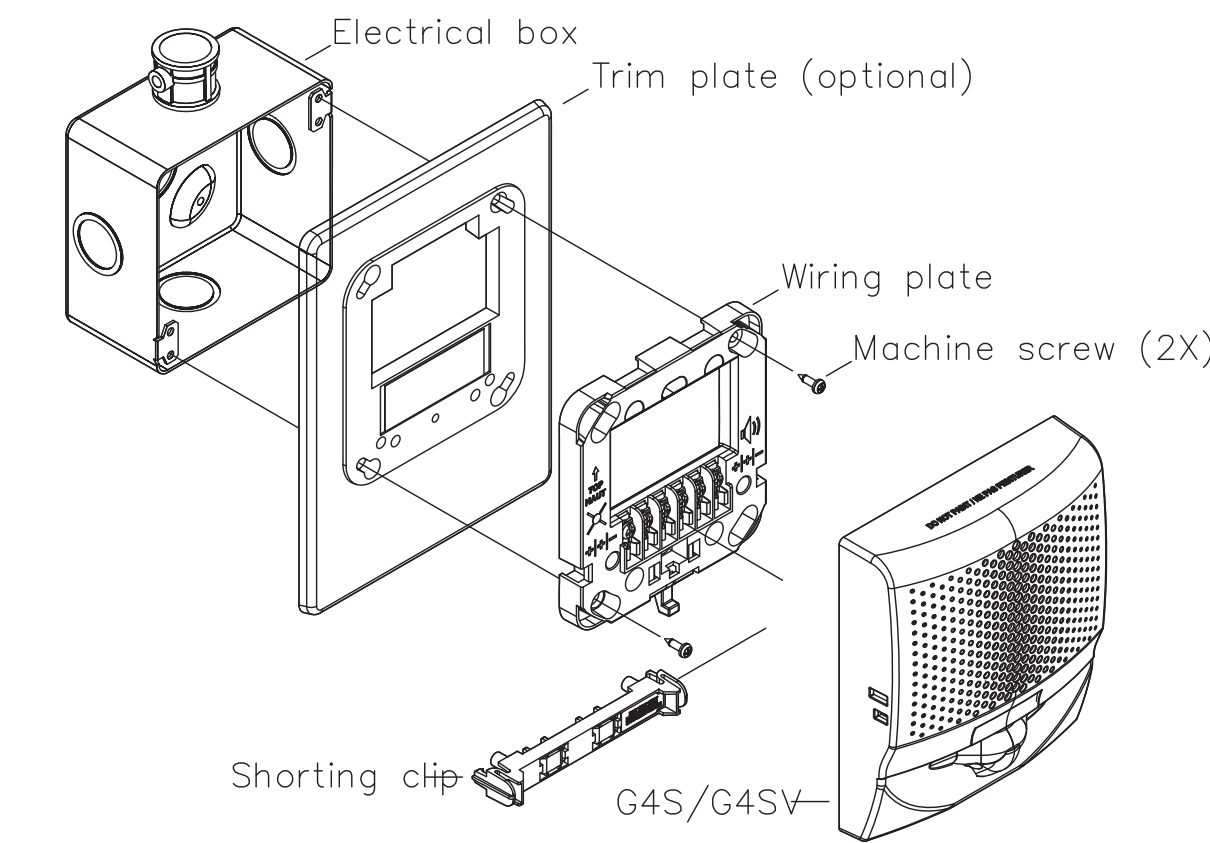
SIGA-CT1 WIRING DIAGRAM
NTS



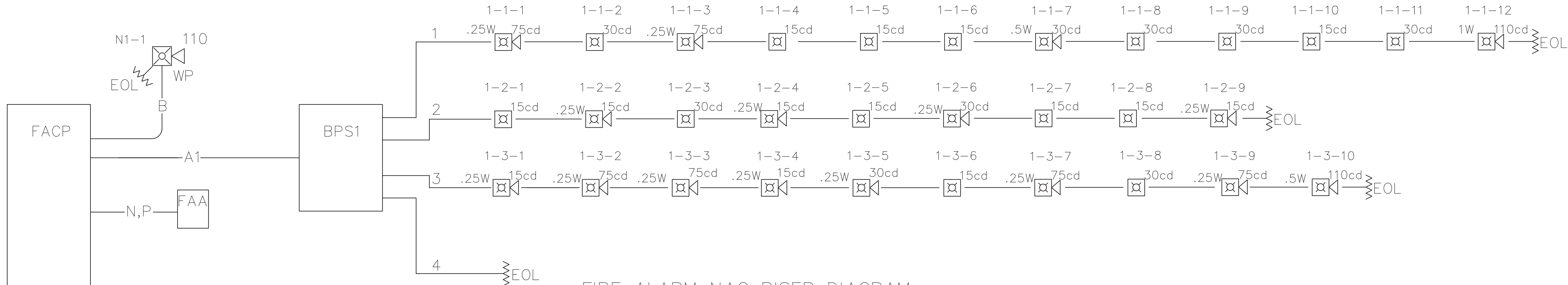
SIGA-27B WIRING DIAGRAM
NTS



SIGA-WTM WIRING DIAGRAM
NTS



SIGA-CR WIRING DIAGRAM
NTS



FIRE ALARM NAC RISER DIAGRAM

CODE COMPLIANCE:
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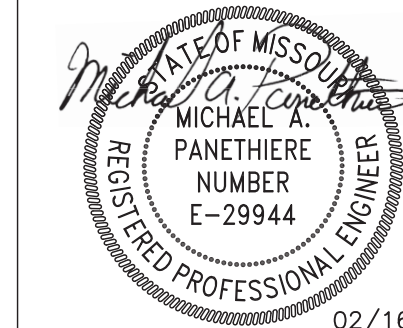
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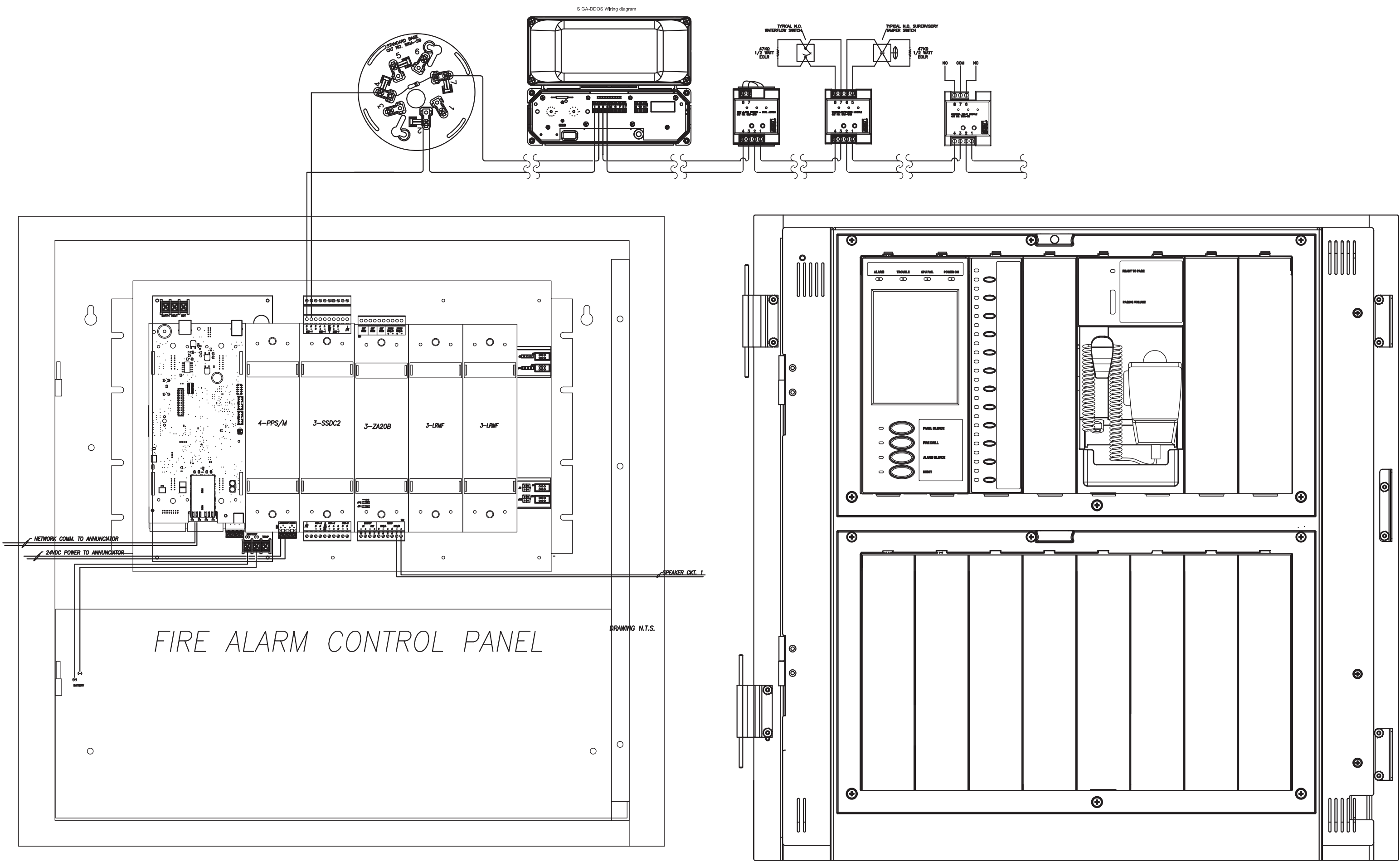


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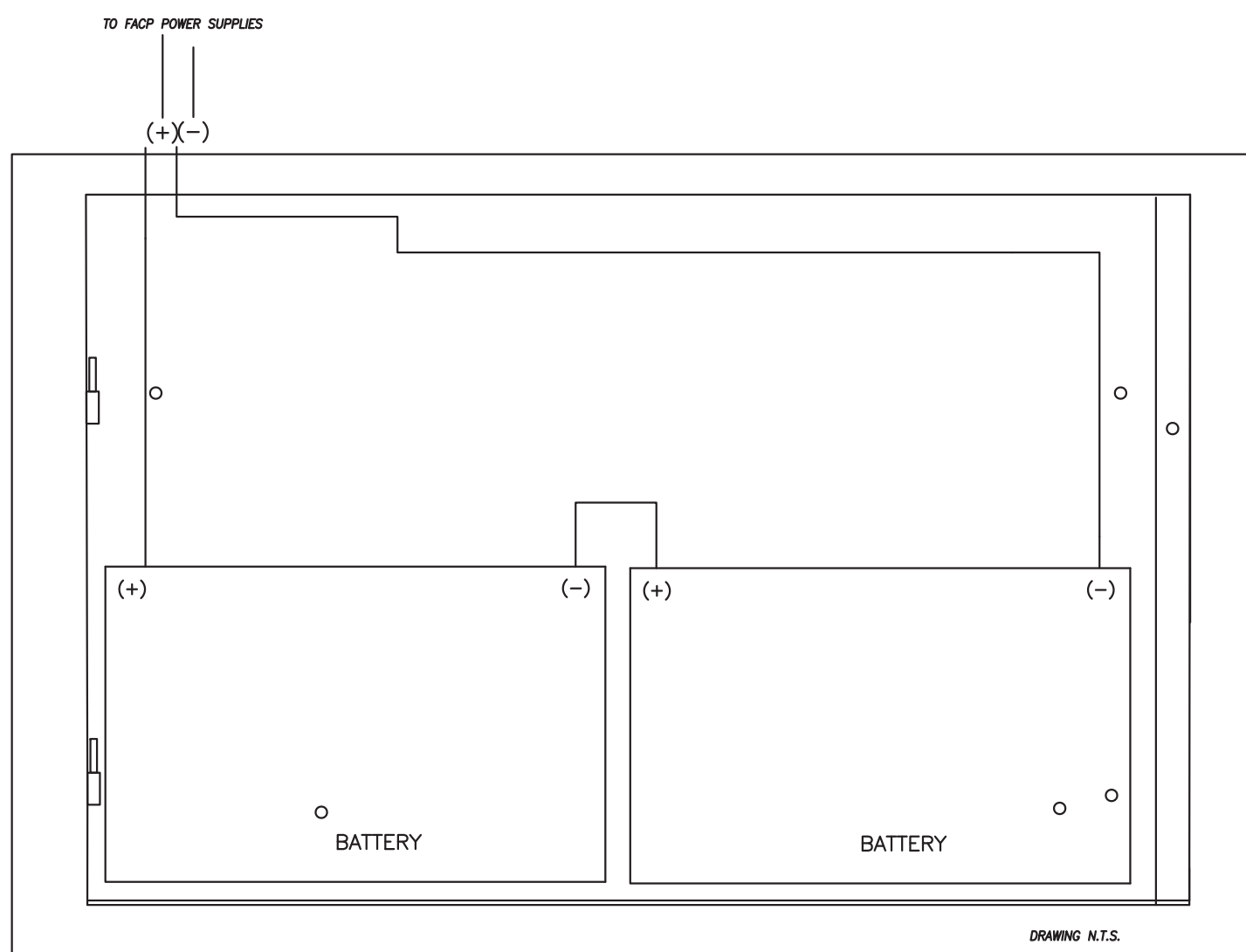
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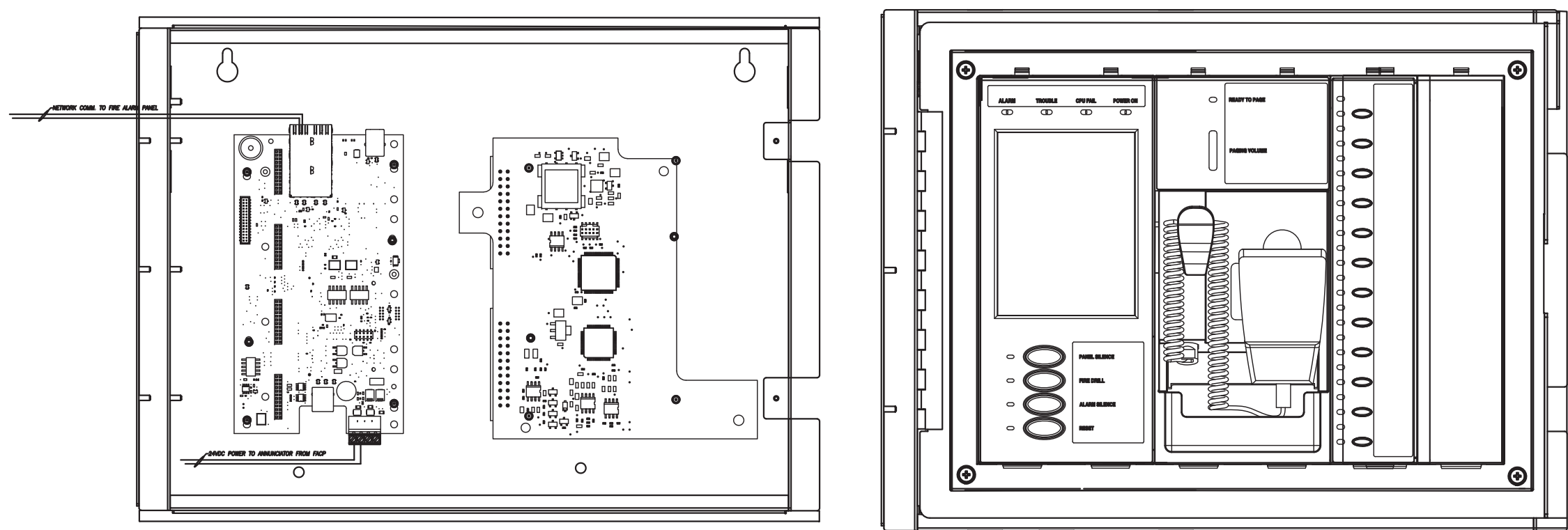
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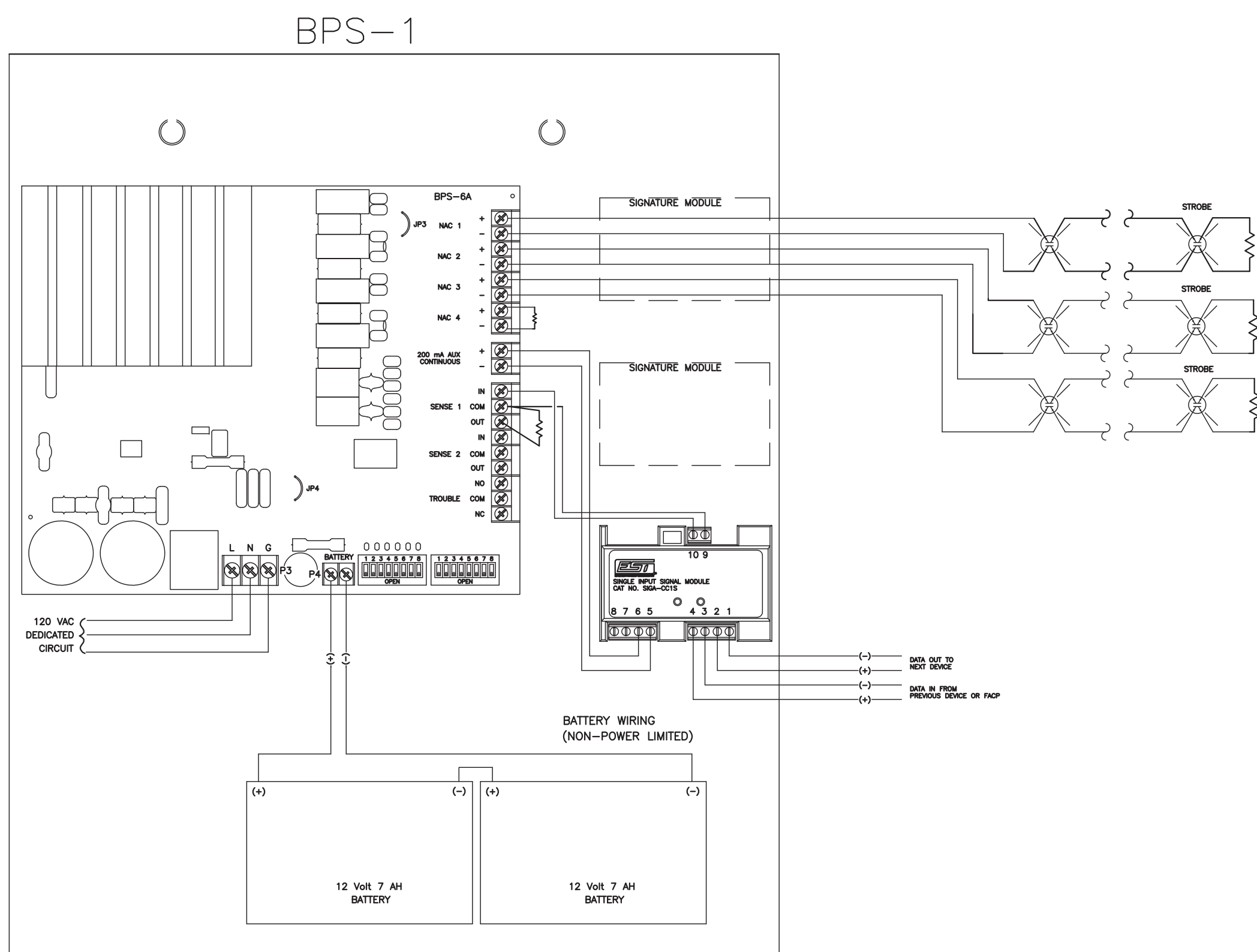
NOTE: DO NOT RECESS MOUNT CABINET IN FIRE-RATED WALL.



NOTE: DO NOT RECESS MOUNT CABINET IN FIRE-RATED WALL.



REMOTE ANNUNCIATOR



TYPICAL SINGLE STROBE BPS - SYNC

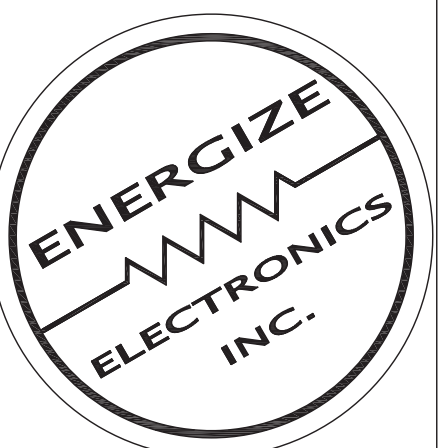
Edwards System Builder																			
EST4 Node (Copy for Additional Nodes)							15 User Entries Count On This Sheet			1 Node Counter									
Job Name: LXT Terminal							1 Total SIGA loops this node				1.2 Battery DeRating Factor								
Node No:							0 Total analog loop this node												
Node Name:							1 Serial ports used this node												
			Battery Calculations				Put cursor over Menu Tool Bars and right click												
*** New ***																			
Battery Periods																			
24 Battery standby supervision period in hours							Battery standby time in hours, this node only												
15 Battery fire alarm period in minutes							Battery fire alarm time in minutes, this node only												
Enter all external current loads for THIS CABINET only in mA							Ok												
387 Enter Remote Annunciator Standby Current							DoubleClick R16 or R17 to assign annunciator current												
476 Enter Remote Annunciator Alarm Current																			
Cat No			Description			Stby mA		Alm mA		PS Alm		Stby mA		Alm mA		Ra&Sp		FtPrt	
EST4 System Components			OK																
Local Rail & Communication Modules																			
1 4-CPU			Main CPU			230		230		230		230		230		2			
2 4-NET-TP			Twisted Pair SFP network controller			54		54		54		27		27					
1 3-SSDC2			Signature Single Driver Controller (LRM)			144		204		204		144		204		1			
1 3-MODCOM			Modem Communicator and Dialer			60		95		95		60		95		1			
1 3-2A20A			20 Watt Zoned Amplifier, Class A, 25 or 70Vrms			62						62		1120		1			
Amplifier Loading Detail																			
16 Amplifier #1			3-2A20 Amplifier					924		924		1120		OK					
1 4-USBHUB			Multi-port USB Hub Module																
External Connection and Safety Connectivity Support																			
User Interface Modules																			
1 4-LCDLE			DISPLAY MAIN LCD MODULE			40		93		93		40		93					
1 4-24L12S			CNTRL DISPLAY, 24 LED, 12 SWITCH			3		5.6		5.6		3		5.6					
1 4-COMREL			COMMON RELAY MODULE			0		8		8		0		8					
Audio & Telephone Common Controls																			
1 4-AUDTELS			Audio IO and Telephone Riser Source Module			85		101		101		85		101					
1 4-MIC			Paging Microphone			8		38		38		8		38					
Power Supplies																			
1 4-PPS1M			Primary Power Supply 120V			70		70		70		70		70		1		1	
Battery Calculations																			
			Fire Total Standby & Alarm Currents in mA			1272		2427.6		2427.6									
			CO Total Standby & Alarm Currents in mA			0		0		0									
			Ampere Hour Calculation assigned from Door Sheets			0													
1.2(Supervisory Hours*Standby Current) + 1.2(Alarm Hours*Alarm Current) + AC Amps																			
			37.4 Calculated Battery Ampere Hours for Fire																
			0.0 Calculated Battery Ampere Hours for Carbon Monoxide + Doors																
Battery			37.4 Total Ampere Hours required																
2 12V40A			40 AH Battery																

Edwards System Builder									
Battery Calculations									
Supply Voltage & Battery Periods									
120	Vac Supply Voltage			0	Seismic hardening				
24	Standby Hours from EST4			7	Entries this sheet				
15	Fire Alarm Minutes from EST4			0	Module Addresses this sheet				
0	CO Alarm Minutes from EST4								
Remote Booster Supplies									
Con - Econ									
24	Standby Hours			24	Battery Standby Hours Override, this booster spec only				
15	Alarm Minutes			15	Battery Standby Fire Alarm Minutes Override, this booster spec only				
1200	Enter NAC #1 Signal Appliance Alarm Current			1200	Ok				
1200	Enter NAC #2 Signal Appliance Alarm Current			1200	Ok				
1200	Enter NAC #3 Signal Appliance Alarm Current			1200	Ok				
1200	Enter NAC #4 Signal Appliance Alarm Current			1200	Ok				
1200	Enter NAC #5 Signal Appliance Alarm Current			1200	Ok				
1	Enter Quantity Required for Multiple Power Supplies with above Ratings								
Booster Supply Specification # 1									
1	BPS6A	Remote Booster Power Supply, 6.5A, 120V/ac, Red		70	270	70	270		
Battery, Booster Power Supply Specification # 1									
Battery AH = De-rating Factor*Supervisory Hours*Standby Current + De-rating Factor*Alarm Minutes*60*Alarm Current									
1.20 Battery De-rating Factor									
3.87 Calculated Battery Ampere Hours									
2	12V6A5	7.2 AH Battery		70	6168.62				

		Edwards System Builder				5 Entries on this sheet		1 Node Counter	
Job Name: LXT Terminal		EST4 REMOTE Annunciators (Copy for Additional Annunciators)						0 UL	
No:									
Location Name:									
Qty	Cat No	Description		Ext'd SmA	Ext'd PAmA	Ext'd AXmA	SmA	AmA	
				SmA	ALmA	ParSp	PowSp	SmA	ALmA
EST4 Network Annunciator									
1	4-LCDANN	Liquid Crystal Display Module		387	478				
1	4-24L12S	CNTRL DISPLAY, 24 LED, 12 SWITCH		4	10	2		40	93
1	4-6ANN	ANNUNCIATOR 6 SPACE		205	205	0		205	205
1	4-ANNAUDTEL	ANN AUDTEL INTERFACE MODULE		98	98	0		98	98
1	4-MIC	PAGING MICROPHONE		8	38	0		8	38
1	4-NET-TP	SFP CNTRL 2MBPS SHARED TX/RX		32	32	0		32	32

NAC VOLTAGE DROP CALCS									
NAC CIRCUIT	DESCRIPTION	DEVICE PART #	DEVICE QTY	LOAD PER	TOTAL LOAD (AMPS)	WIRE LENGTH (FEET)	WIRE SIZE (AWG)	RESISTANCE MAX (OHMS)	VOLTAGE DROP (0.7V MAX)
1-1	BPS-1	GA/VWF	4	0.028	0.304	445	14	12.17	1982
		GV/VWF	8	0.024					
			0	0.050					
1-2	BPS-1	GA/VWF	3	0.028	0.228	289	14	16.23	2643
		GV/VWF	6	0.024					
			0	0.024					
1-3	BPS-1	GA/VWF	8	0.028	0.272	498	14	13.60	2215
		GV/VWF	2	0.024					
			0	0.000					
1-4	BPS-1 SPARE		0	0.000	0.000	0	14	0.00	0
			0	0.000					
			0	0.000					
N1	FACP AMP 1 NAC	WG4RF-HV/MC	1	0.356	0.356	50	14	10.39	1693
			0	0.000					
			0	0.000					

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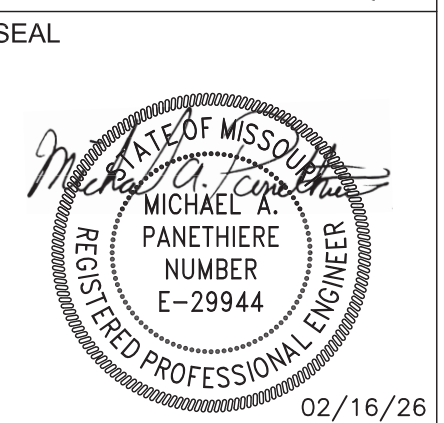


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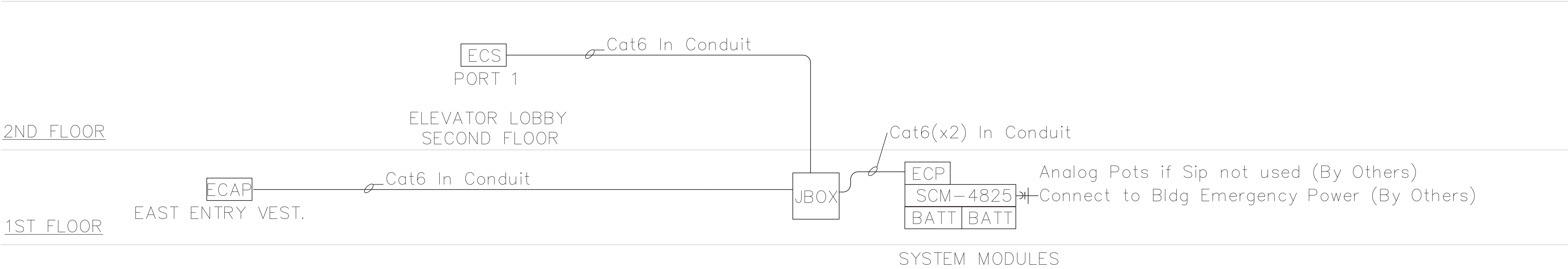
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ELEVATOR TWO-WAY COMMUNICATION SYSTEM SCHEDULE				
MARK	MANUFACTURER	MODEL NUMBER	DESCRIPTION	REMARKS
[ECAP]	CORNELL	A4800-BS	ELEVATOR 2-WAY COMMUNICATIONS MASTER	2
[ECS]	CORNELL	4800-VS3	ELEVATOR 2-WAY COMMUNICATION STATION	2
[SCM-4825]	CORNELL	SCM-4825	SYSTEM CONTROL UNIT - SENTINEL V2	2
				1,2
[BATT]		7710-065	SYSTEM POWER BACKUP	

REMARKS:
1 - 120VAC BY ELECTRICAL
2 - ELECTRICAL CONTRACTOR SHALL MOUNT DEVICE BACKBOX.

AREA RESCUE - EMERGENCY 2-WAY COMMUNICATION
KC - LEE'S SUMMIT REGIONAL
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