

NOTE#	NOTE TEXT
1.	ALL CIRCUIT POLARITY SHALL BE MAINTAINED.
2.	SHIELD CONTINUITY SHALL BE MAINTAINED THROUGH OUT ALL SHIELDED CIRCUITS. SHIELDS SHALL BE GROUNDED AT ONLY ONE POINT (THE EQUIPMENT HEAD END UNLESS NOTED OTHERWISE).
3.	ALL CIRCUITS SHALL BE FREE OF GROUNDS, WIRE TO WIRE SHORTS, AND OPENS.
4.	NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERSEDED. NO PARALLEL BRANCHING (TEE TAPPING) SHALL BE PERMITTED. NON-STYLE B & 7 SIGNALING LINE CIRCUITS (SLC) ALLOW PARALLEL BRANCHING (TEE-TAPPING) AT DEVICES AND RESIDUAL BOXES ONLY.
5.	ALL FIRE ALARM CONDUIT SHALL BE SIZED TO MEET OR EXCEED THE NEC MINIMUM REQUIREMENTS. FIRE ALARM CONDUIT SIZE SHALL BE 3/4" MINIMUM UNLESS SHOWN OTHERWISE. STUB-UPS TO INDIVIDUAL DEVICES ALLOWED TO BE IN 1/2".
6.	INSTALLATION MATERIALS (I.E. CONDUIT, FITTINGS, HANGERS, STANDARD BOXES, ETC.) ARE NOT PROVIDED BY MIDWEST ALARM SERVICES.
7.	ON OPEN WIRE INSTALLATIONS CONDUIT SHALL BE PROVIDED BY OTHERS THROUGH ALL WAC'S, INCLUDING THROUGH ROOF CEILING, STUB-UPS THROUGH ENCLOSED WALLS, ETC.) AND IN ALL EXPOSED AREAS (I.E. MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.).
8.	MANUAL PULL BOXES SHALL BE MOUNTED 48" AFF TO THE ACTUATING HANDLE.
9.	WALL-MOUNTED AUDIBLE/VISUAL & VISUAL ONLY DEVICES SHALL BE MOUNTED 80" AFF TO THE BOTTOM OF THE DEVICE OR 6" FROM THE CEILING TO THE TOP OF THE DEVICE WHICHEVER IS LOWER.
10.	INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, NFPA CODES, LOCAL CODES, AUTHORITIES HAVING JURISDICTION AND ALL CITY ORDINANCES.
11.	ALL FIRE ALARM CONTROL RELAYS SHALL BE MOUNTED WITHIN 3' OF THE DEVICES THEY CONTROL. ALL RELAY CONTROL CIRCUITS SHALL BE SUPERVISED.
12.	ALL FIRE ALARM JUNCTION BOX COVERS SHALL BE PAINTED RED OR LABELED FOR DISTINCT IDENTIFICATION.
13.	ALL FIRE ALARM PANELS & EQUIPMENT CABINETS REQUIRE A DEDICATED 120VAC CIRCUIT FOR PRIMARY POWER. FIRE ALARM AC POWER CIRCUITS SHALL BE PERMANENTLY IDENTIFIED AT THE DISTRIBUTION PANEL AND INSIDE THE FIRE EQUIPMENT CABINETS SERVED.

#	REFERENCED CODE	YEAR
1	International Building Code (IBC)	2018
2	International Fire Code (IFC)	2018
3	NFPA 70 National Electrical Code	2017
4	NFPA 72 National Fire Alarm Code	2016
5	NFPA 90A Standard on AC & Ventilating	2018

City of Lee's Summit, MO

This project is a new apartment building complex including a clubhouse. All buildings are fully sprinklered per NFPA 13R. An addressable fire alarm system is being provided in each building with horn/strobe notification. Only the clubhouse is being submitted at this time.

According to contract documents, the clubhouse building is occupancy group B and S-1 with areas of R-3 and A-3. None of the five AHUs are over 2,000 CFM to require detection and shutdown. Single-Station smoke and CO detectors for the R-3 area are provided by others.

SYSTEM INPUTS		AL	SL	TR	RE	TR	AC	SL	EL	EL	EL
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		●	●		1						
FIRE ALARM CONTROL PANEL OTHER TROUBLE		●	●		●	●					
SPRINKLER WATERFLOW ALARM ACTIVATION		●			●	●	●				
MANUAL PULL STATION ACTIVATION		●			●	●	●				
SMOKE DETECTOR ACTIVATION		●			●	●	●				
SMOKE DETECTOR ACTIVATION - ELEVATOR LANDING PRIMARY FLR		●			●	●	●			●	
SMOKE DETECTOR ACTIVATION - ELEVATOR LANDING OTHER FLOORS		●			●	●	●			●	
HEAT DETECTOR - ELEVATOR SHAFT OR MACHINE ROOM		●			●	●	●				●
DUCT SMOKE DETECTOR ACTIVATION		●			●	●	●				
SPRINKLER VALVE TAMPER SWITCH ACTIVATION		●			●	●	●				

- | Sheet: | Title: | Revision #: | Date Issued: |
|--------|---|-------------|--------------|
| FA-0 | COVER SHEET, NOTES, CALCULATIONS FOR CLUBHOUSE | | 05.30.24 |
| FA-101 | FIRE ALARM FLOOR PLAN - CLUBHOUSE | | 05.30.24 |
| FA-102 | DEVICE MOUNTING & WIRING DETAILS | | 05.30.24 |
| FA-103 | PANEL MOUNTING & WIRING, RISER DIAGRAM - CLUBHSE | | 05.30.24 |
| FA-201 | FIRE ALARM FLOOR PLAN - APARTMENT B5MT, RISER | | (future) |
| FA-202 | FIRE ALARM FLOOR PLAN - APARTMENT 1ST & 2ND LEVEL | | (future) |
| FA-203 | FIRE ALARM FLOOR PLAN - APARTMENT 3RD & 4TH LEVEL | | (future) |
| FA-204 | PANEL MOUNTING & WIRING - APARTMENT | | (future) |
| FA-205 | CALCULATIONS - APARTMENT | | (future) |

NOTIFICATION POWER SUMMARY - HORN-STROBE CIRCUITS - Clubhouse												
FACP	Ckt Design	Qty Dev	Alarm Load	Max. Load	Percent of Max	Circuit Length	wire type	Start Vols	Line Loss	Load o	e Drop	End Volts
Upper Level	P1	15	0.520 A	2.50 A	20.80%	357 FT	14ga solid Cu	20.4	2.19	39.2	1.14 V	19.26
Lower Level	P2	16	0.522 A	2.50 A	20.88%	375 FT	14ga solid Cu	20.4	2.30	39.1	1.20 V	19.20
spare	P3	0	0.000 A	2.50 A	0.00%	0 FT	14ga solid Cu	20.4	0.00		0.00 V	20.40
exterior FDC	P4	1	0.176 A	2.50 A	7.04%	46 FT	14ga solid Cu	20.4	0.28	115.9	0.05 V	20.35
	N/A	PS	0 0.000 A	0 0.00 A	0%/DWV#	0 FT	14ga solid Cu	20.4	0.00		0.00 V	20.40
	N/A	PS	0 0.000 A	0 0.00 A	0%/DWV#	0 FT	14ga solid Cu	20.4	0.00		0.00 V	20.40
TOTALS	32	1,218 A	3.0 A	40.60%								

by Honeywell		NFW-100X Fire Alarm Control Panel			
Quantity x [device current draw] = total current draw per (amps)					
Part Number	Qty	Primary Non-Alarm	Primary Alarm	Secondary Non-Alarm	
Main Circuit Board	1	x [0.00000] = 0.00000	x [0.00000] = 0.00000	x [0.14100] = 0.14100	
DMP Dual/Com NFW-LV DACT	1	x [0.03000] = 0.03000	x [0.08200] = 0.08200	x [0.03000] = 0.03000	
SPLED-15	15	x [0.00000] = 0.00000	x [0.01800] = 0.27000	x [0.00000] = 0.00000	
SPLED-30	2	x [0.00000] = 0.00000	x [0.02200] = 0.04400	x [0.00000] = 0.00000	
PSLED-15	7	x [0.00000] = 0.00000	x [0.03500] = 0.24500	x [0.00000] = 0.00000	
CPZLED-30	3	x [0.00000] = 0.00000	x [0.03800] = 0.11400	x [0.00000] = 0.00000	
CPZLED-75	3	x [0.00000] = 0.00000	x [0.08700] = 0.26100	x [0.00000] = 0.00000	
HW-LF	1	x [0.00000] = 0.00000	x [0.10800] = 0.10800	x [0.00000] = 0.00000	
PRK75	1	x [0.00000] = 0.00000	x [0.17600] = 0.17600	x [0.00000] = 0.00000	
ANN-80	1	x [0.01500] = 0.01500	x [0.04000] = 0.04000	x [0.01500] = 0.01500	
FSF-551, FSP-951	4	x [0.00030] = 0.00120	x [0.00000] = 0.00000	x [0.00030] = 0.00120	
FST-951, FST-951	1	x [0.00030] = 0.00030	x [0.00000] = 0.00000	x [0.00030] = 0.00030	
FDM-1	1	x [0.00040] = 0.00040	x [0.00000] = 0.00000	x [0.00040] = 0.00040	
FDM-1	1	x [0.00075] = 0.00075	x [0.00000] = 0.00000	x [0.00075] = 0.00075	
NBG-12LX	1	x [0.00030] = 0.00030	x [0.00000] = 0.00000	x [0.00030] = 0.00030	
FCM-1	1	x [0.00039] = 0.00039	x [0.00000] = 0.00000	x [0.00039] = 0.00039	
FFM-1	5	x [0.00027] = 0.00135	x [0.00000] = 0.00000	x [0.00027] = 0.00135	
Max Alarm Draw - All Addressable Dev	1	x [0.00000] = 0.00000	x [0.40000] = 0.40000	x [0.00000] = 0.00000	
Total (Amps):		0.0797 A		1.8220 A	

Part Number	Qty	Secondary Alarm
Total Primary Alarm Load - C2	1	x [1.82200] = 1.82200
Main Circuit Board	1	x [0.25700] = 0.25700
Total (Amps):		2.0790 A

NF-10X Fire Alarm Control Panel			
Protected Premises: <u>Residences at Blackwell - Clubhouse</u>		Date: <u>5.30.2024</u>	
Address: <u>US 50 Hwy at Blackwell</u>			
City: <u>Lee's Summit</u>	State: <u>MO</u>	Zip: <u>64063</u>	
Prepared By: <u>Midwest Alarm Services - David Lane</u>		Phone: <u>913-677-5771</u>	
Address: <u>9745 Widmer</u>		Email: _____	
City: <u>Lenexa</u>	State: <u>KS</u>	Zip: <u>66215</u>	
Clear Project Information <input type="button" value="Clear"/>			
AC Branch Current Requirements		<div style="border: 1px solid black; padding: 2px; display: inline-block;">3.20</div> AMPS @ 120 VAC	<input type="button" value="Check"/>
Current required by control to power the fire alarm system.			
Primary Standby Load		<div style="border: 1px solid black; padding: 2px; display: inline-block;">0.08</div> Amps	<input type="button" value="Check"/>
Current load on the primary power supply during non-alarm conditions.			
Primary Alarm Load		<div style="border: 1px solid black; padding: 2px; display: inline-block;">1.82</div> Amps	<input type="button" value="Check"/>
Current load on the primary power supply during alarm conditions.			
Secondary Load Requirements		<div style="border: 1px solid black; padding: 2px; display: inline-block;">6.57</div> Amp Hours	<input type="button" value="Check"/>
Total Secondary Load from the calculation table below.			

Current Draw		Time (hours)	Total (AH)
Secondary Standby Load		Required Standby Time	
0.221 A	x	24 hours	5.30
Secondary Alarm Load		Required Alarm Time (hours)	
2.079 A	x	0.084 hours	0.17
Total Secondary Load			5.47
<input type="checkbox"/> USA <input type="checkbox"/> Canada Derating factor			x 1.2
Secondary Load Requirements			6.57

AH

Select batteries from the list below.

7 AH BAT-1270 Battery (12 volt)

☒ Two ☐ Four (two 12VDC sets in parallel)

Shows amp-hour distribution of your selections.

A pie chart illustrating the distribution of amp-hours for different system components. The chart is divided into three segments: a large red segment for 'Secondary Standby Load' at 91%, a blue segment for 'Spare Battery Capacity' at 6%, and a small grey segment for 'Secondary Alarm Load' at 3%. A legend to the right of the chart identifies the colors: blue for Spare Battery Capacity, red for Secondary Standby Load, and grey for Secondary Alarm Load.

Category	Percentage
Secondary Standby Load	91%
Spare Battery Capacity	6%
Secondary Alarm Load	3%

SYMBOL	DESCRIPTION
	NOTIFIER NFS-100X FIRE ALARM PANEL MOUNT PANEL AS SHOWN AT 27" AFF TO TOP OF BOX BACK BOX: INCLUDED.
	NOTIFIER N-ANN-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-x BACK BOX: SINGLE GANG
	NOTIFIER NBS-12LX ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG x 1.875" DEEP MIN
	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 SQUARE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
	NOTIFIER FST-951 HEAT DETECTOR, 135F MOUNT ON B300-6 SQUARE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	NOTIFIER FMM-1 ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
	SYSTEM SENSOR SWLED STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR SCWLED STROBE, CEILING MOUNT, WHITE MOUNT IN DROP CEILING TILE OR BOTTOM OF CLNG TRUSS BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR PZWLED HORN/STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR HWLFL x 1.875" FREQ. HORN, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR P2RK HORN/STROBE, WALL, OUTDOOR, RED MOUNT DIRECTLY ABOVE FDC AT 8'-10" A.F.G BACK BOX: PLASTIC BACKBOX INCLUDED WITH DEVICE

TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWSTD, JACKETED CABLE FPLP
B	NOTIFICATION APPLIANCE CIRCUIT (NAC), CLASS B (2C) 14AWG SOLID, TWISTED, JACKETED CABLE. FPLP
P	AUX. POWER FOR ANNUNCIATOR (2C) 14AWG SOLID, TWISTED, JACKETED CABLE. FPLP
R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS) (2C) 18AWG SOLID, TWISTED, JACKETED CABLE. FPLP

2A, 2B COMBINED FIRE ALARM WIRE PATHWAY

CABLE IDENTITY - LETTER

QUANTITY OF CABLE - NUMBER
(NO NUMBER INDICATES QTY OF ONE)

THIS DRAWING DEPICTS GENERAL PATHWAYS USED TO SERIALY CONNECT FIRE ALARM DEVICES consistent WITH ADDRESSING AND CALCULATIONS. IT DOES NOT SHOW CONDUIT OR RACEWAY LOCATION. EXACT ROUTING MAY BE ADJUSTED IN THE FIELD BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES.

N = NEW (DEFAULT)
E = EXIST (NO ACTION)
ER = EXIST TO REUSE
ED = EXIST TO DELETE

NO NOTATION = NEW

TYPE OF SIGNAL CIRCUIT
'N' = NAC REMOTE POWER SUPPLY
'P' = FACP PANEL
'V' = VOICE EVAC (SPEAKER)
PANEL NUMBER (IF ANY)
CIRCUIT NUMBER IN PANEL

N2-1-01

DEVICE NUMBER
END OF LINE RESISTOR
(LAST DEVICE ON CKT)
30
CANDELA RATING

NOTIFICATION APPLIANCES

☒ ☒ ☒ ☒ ☒

—MODULES—

☑ ☑ ☑

—DETECTORS—

DENOTES DEVICE TYPE
'M'=MODULE, 'D'=DETECTOR
DEVICE ADDRESS NUMBER
(1-159 DET, 1-159 MOD)

D01

ADDRESSABLE DEVICES

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
LONNIE THOMPSON
NUMBER E-23541
05.31.2024

The logo for Midwest Alarm Services. It features a large, stylized 'M' in black and red, followed by the text 'MIDWEST ALARM SERVICES' in a bold, sans-serif font. 'MIDWEST' and 'SERVICES' are in black, while 'ALARM' is in red.

Residences at Blackwell
2840 SE Blue Parkway, Lee's Summit MO 64063

prepared for: Ridgeline Power Group

FA-0
2 of 3

RTU & AHU SCHEDULE - Club House Building	
(As listed on contract drawing MP1.04)	
AHU-CL1	1,400 - 1,600 CFM
AHU-CL2	1,400 - 1,600 CFM
AHU-CL3	1,000 - 1,100 CFM
AHU-CL4	1,750 - 1,980 CFM
AHU-CL5	1,400 - 1,600 CFM

None of the units in this building are over 2,000 CFM to require duct detectors and shutdown function from the fire alarm system per NFPA 72 & 90A. All are electric heat.

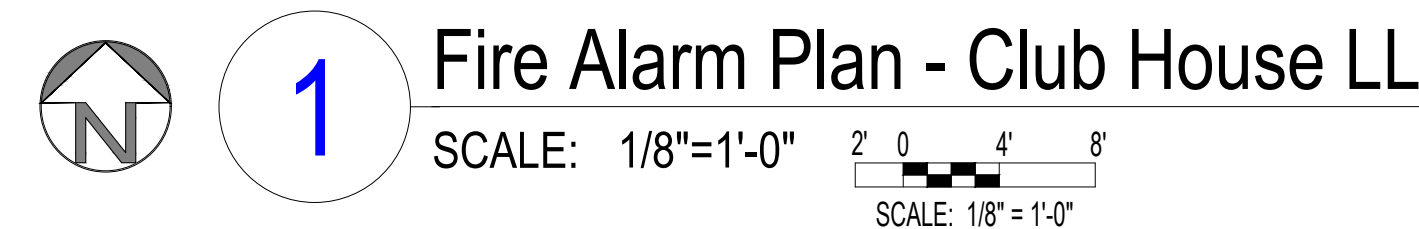
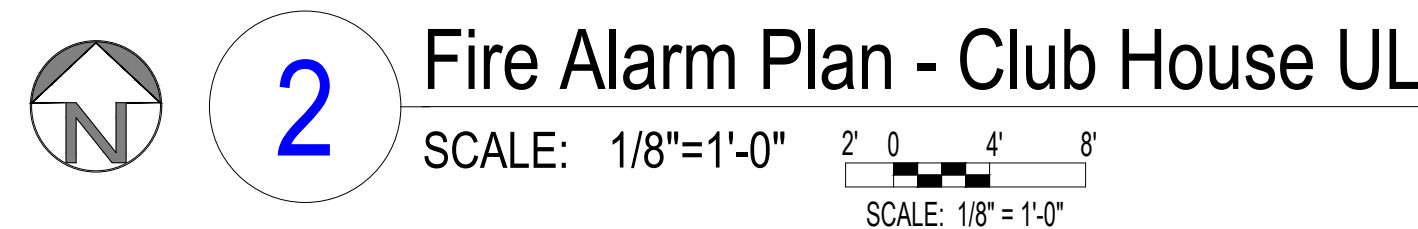
WIRE TAG AND PATHWAY LEGEND

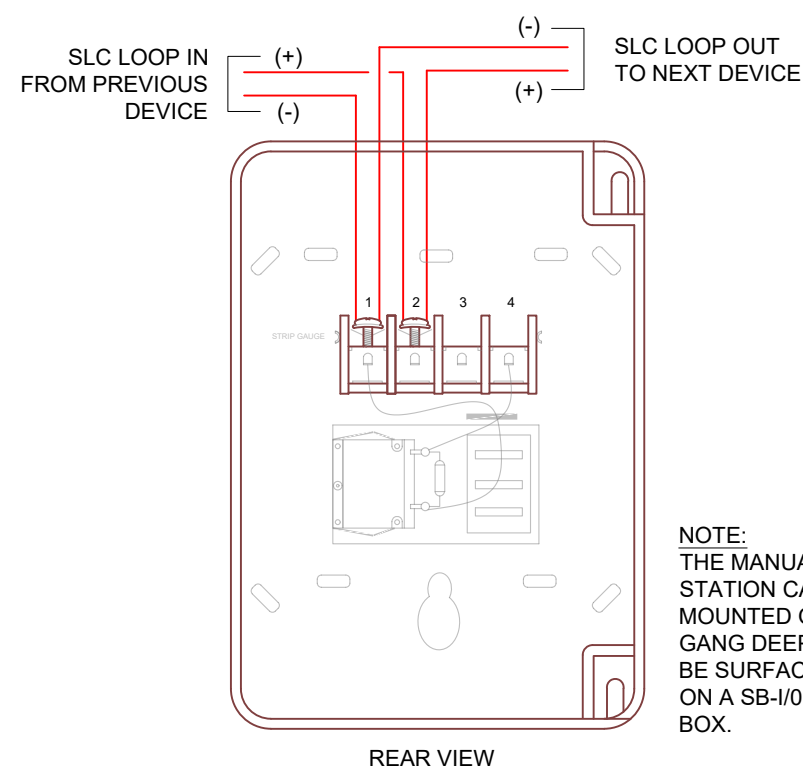
The diagram illustrates a combined fire alarm wire pathway. A horizontal green line represents the pathway, with a red arrow pointing left and a green arrow pointing right. Below this line, two vertical black lines represent cable bundles, labeled '2A, 2B' with arrows pointing to them. To the right of the pathway, the text 'COMBINED FIRE ALARM WIRE PATHWAY' is written. Below the pathway, the following text is listed: 'CABLE IDENTITY - LETTER', 'QUANTITY OF CABLE - NUMBER', and '(NO NUMBER INDICATES QTY OF ONE)'. Below this list, a paragraph explains that the drawing depicts general pathways used to serially connect fire alarm devices consistent with addressing and calculations, and that it does not show conduit or raceway location, which must be adjusted to field based on site conditions and coordination with other trades.

COMBINED FIRE ALARM WIRE PATHWAY

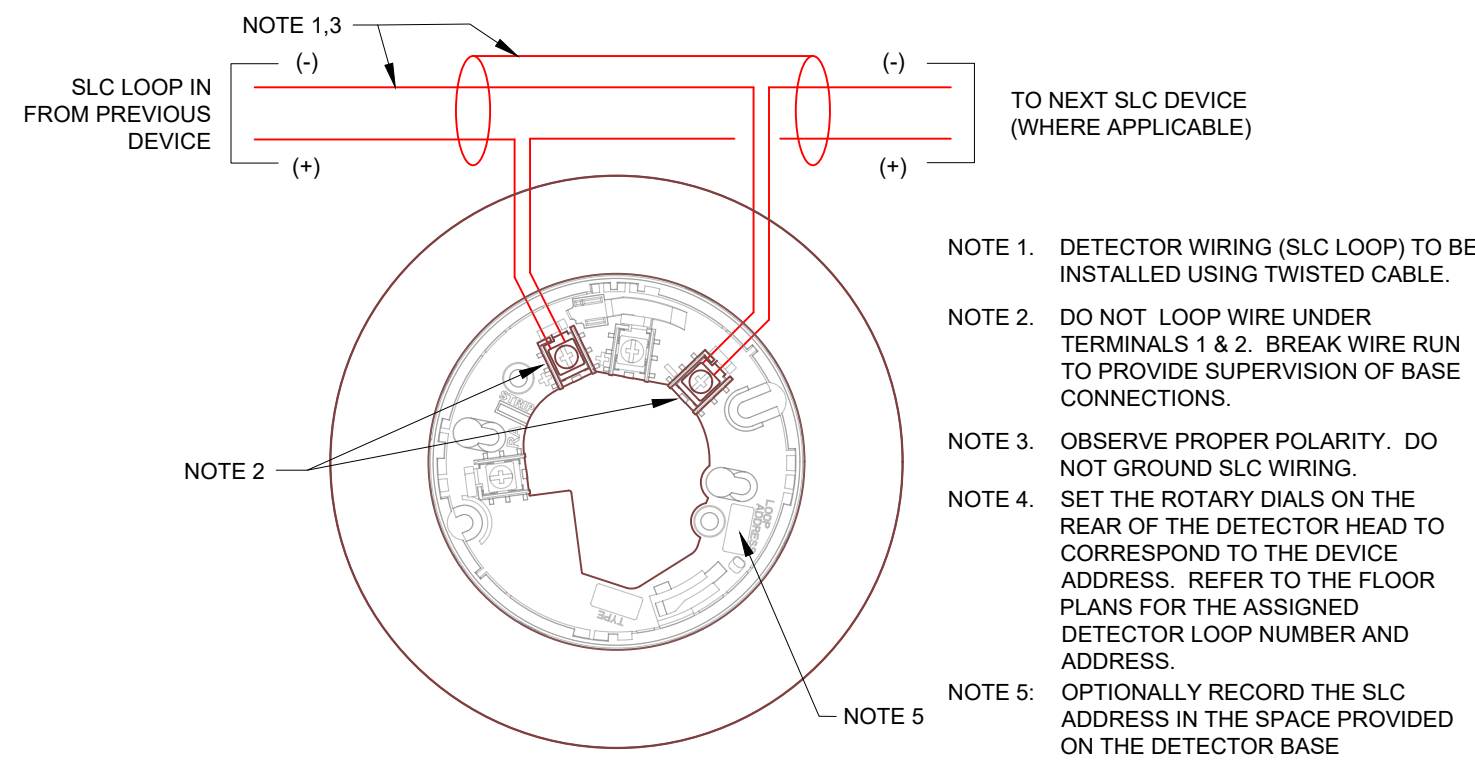
CABLE IDENTITY - LETTER
QUANTITY OF CABLE - NUMBER
(NO NUMBER INDICATES QTY OF ONE)

THIS DRAWING DEPICTS GENERAL PATHWAYS USED TO SERIALY CONNECT FIRE ALARM DEVICES CONSISTENT WITH ADDRESSING AND CALCULATIONS. IT DOES NOT SHOW CONDUIT OR RACEWAY LOCATION. EXACT ROUTING MAY BE ADJUSTED TO FIELD BASED ON SITE CONDITIONS AND COORDINATION WITH OTHER TRADES.



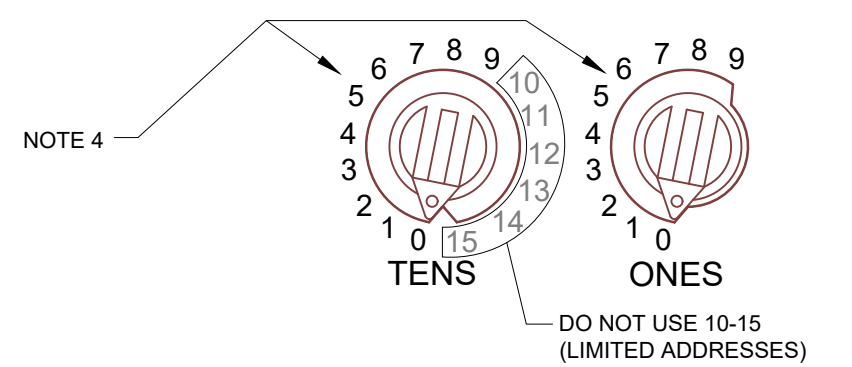


NBG-12LX MANUAL PULL STATION

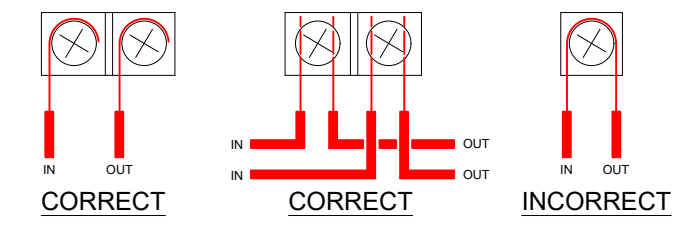


B300-6 DETECTOR BASE WIRING DETAIL

NOTE - LIMITED ADDRESSES:
EACH DEVICE CAN BE SET TO ONE OF 159 ADDRESSES (01-159), HOWEVER ONLY 99 DETECTOR AND 99 MODULE ADDRESSES ARE AVAILABLE IN THIS SYSTEM FOR A TOTAL OF 198 POINTS. CHANGE EACH DEVICE FROM FACTORY PRESET ADDRESS OF "00" USING A COMMON SCREWDRIVER TO ROTATE THE POINTER TO THE NUMBER DESIRED.

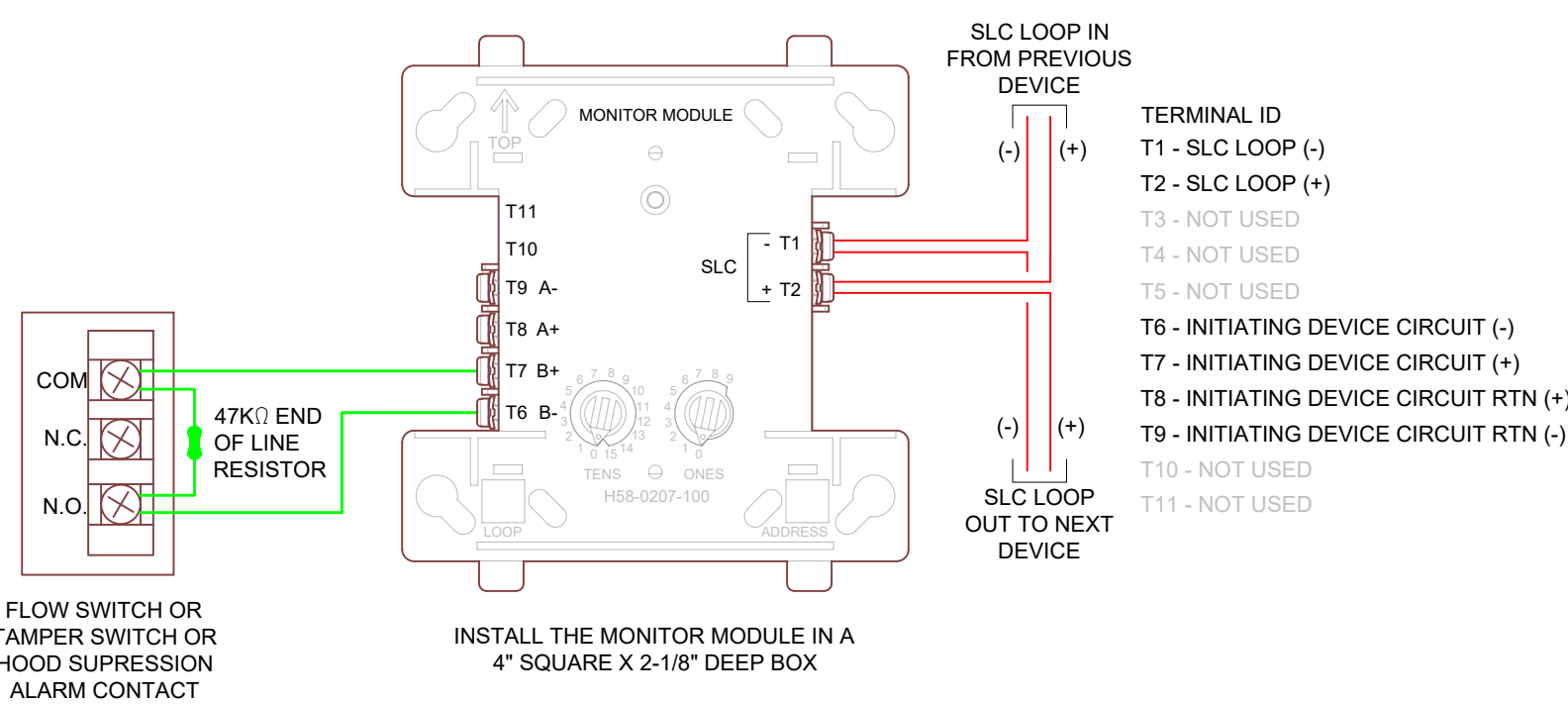


SETTING SLC ADDRESS
(ROTARY DIALS)

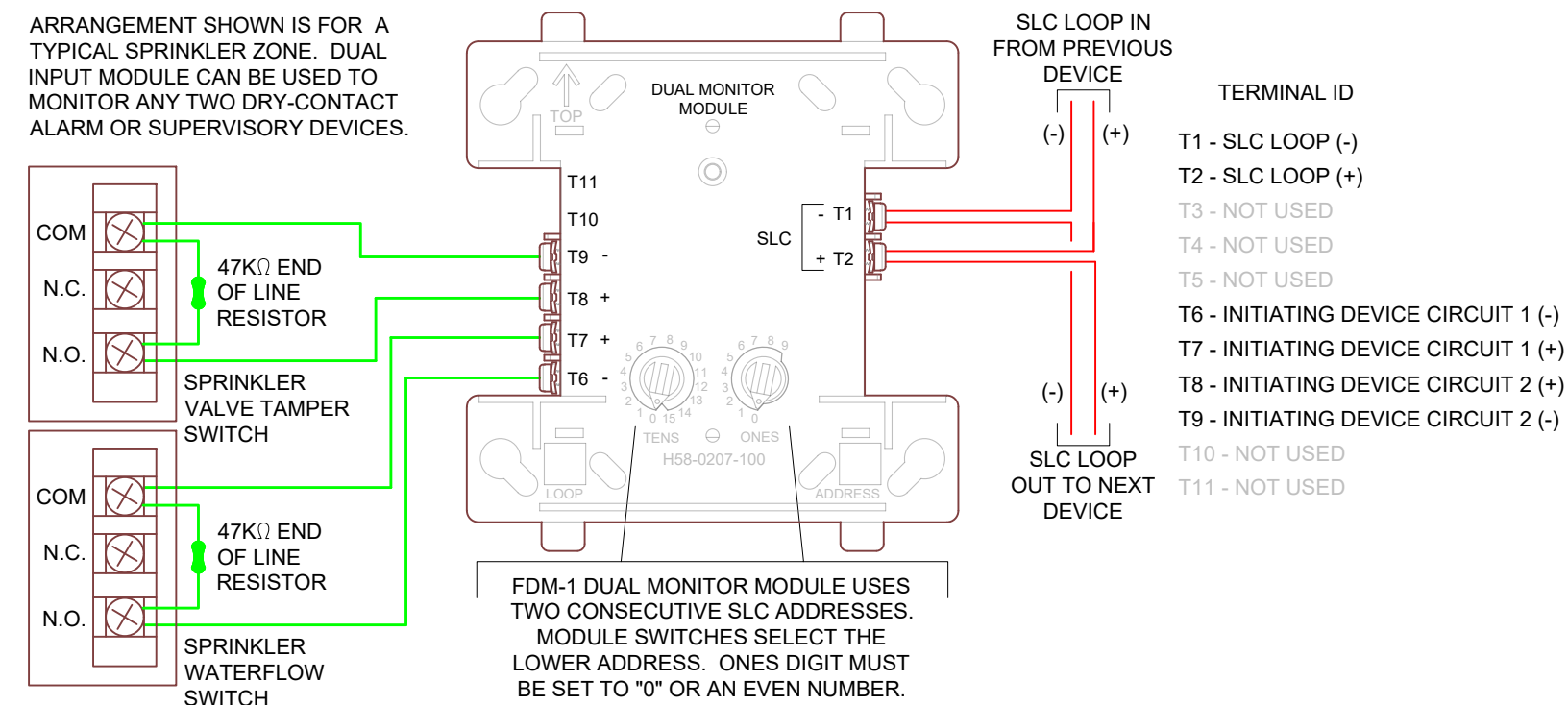


WIRING MUST BE BROKEN AT DEVICE CONNECTION POINTS AS SHOWN TO INSURE MONITORING OF CIRCUIT INTEGRITY.

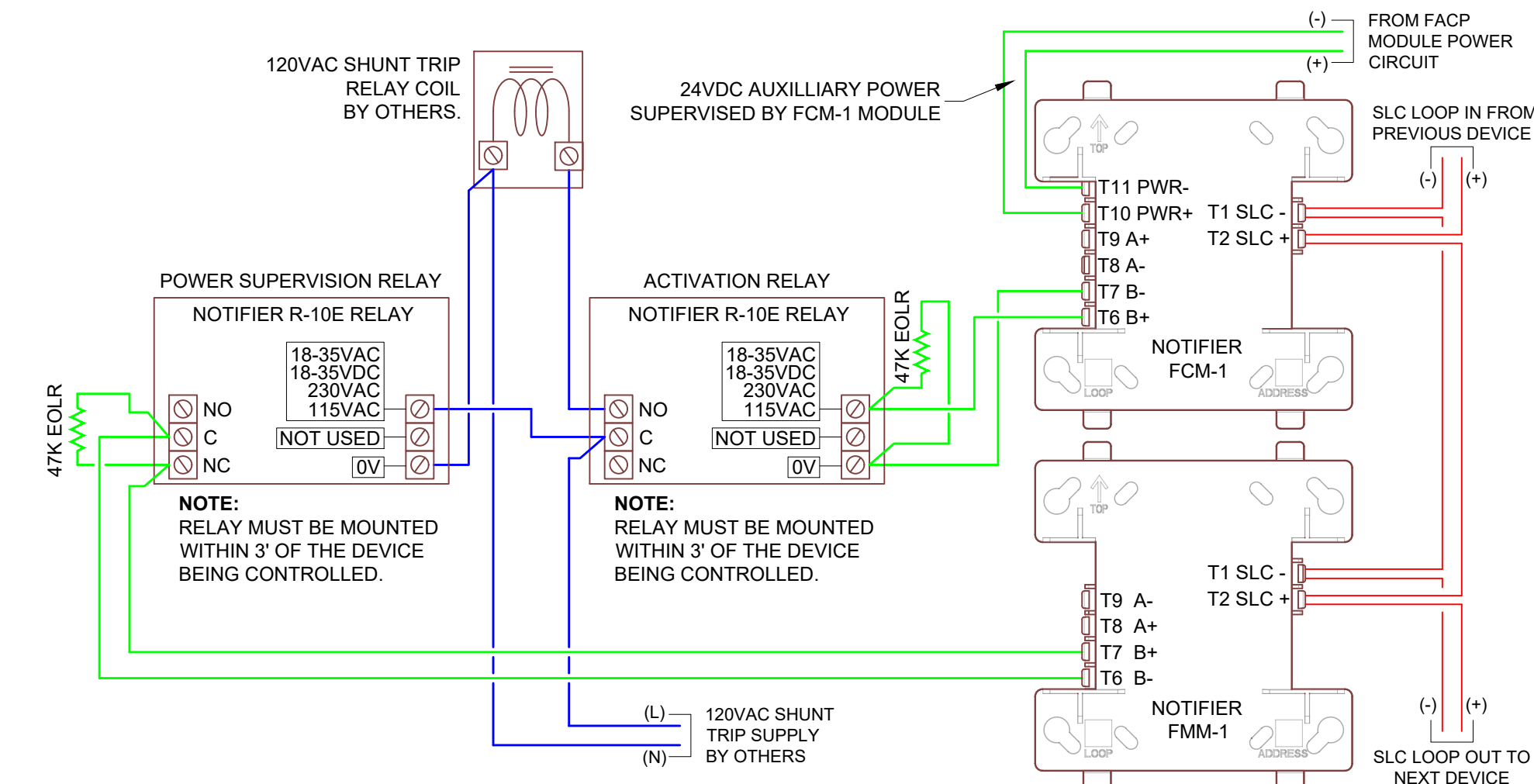
WIRING METHODS



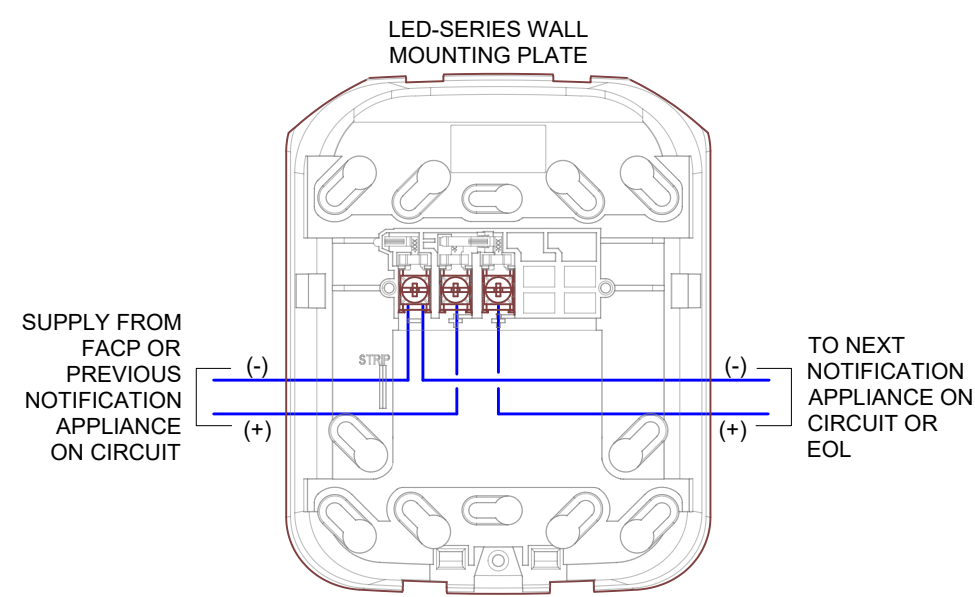
FMM-1 ADDRESSABLE MONITOR MODULE



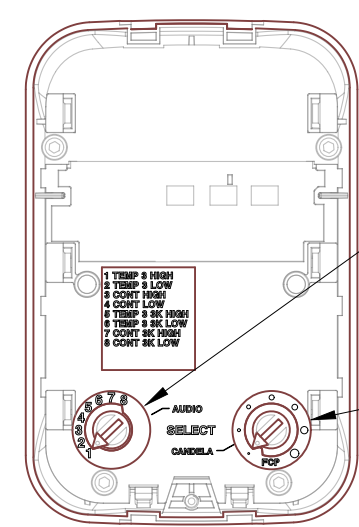
FDM-1 DUAL INPUT MONITOR MODULE - TYPICAL WIRING



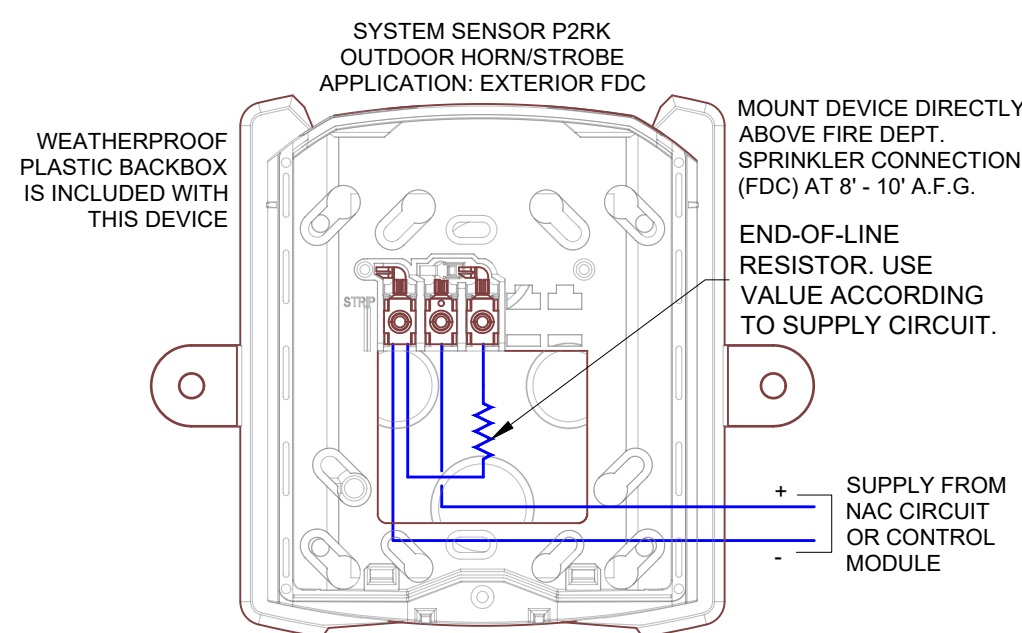
ELEVATOR SHUNT TRIP WIRING DETAIL



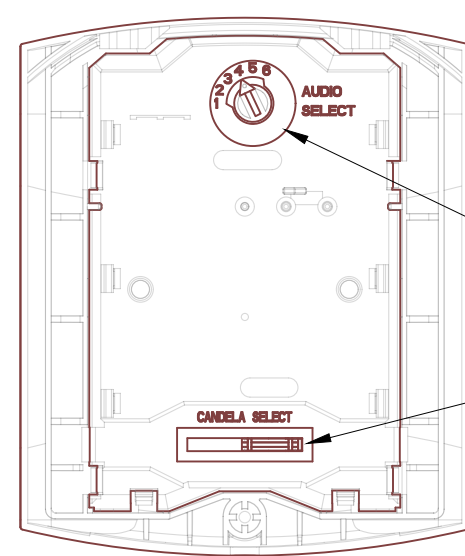
SYSTEM SENSOR LED-SERIES
HORN / STROBE & STROBE



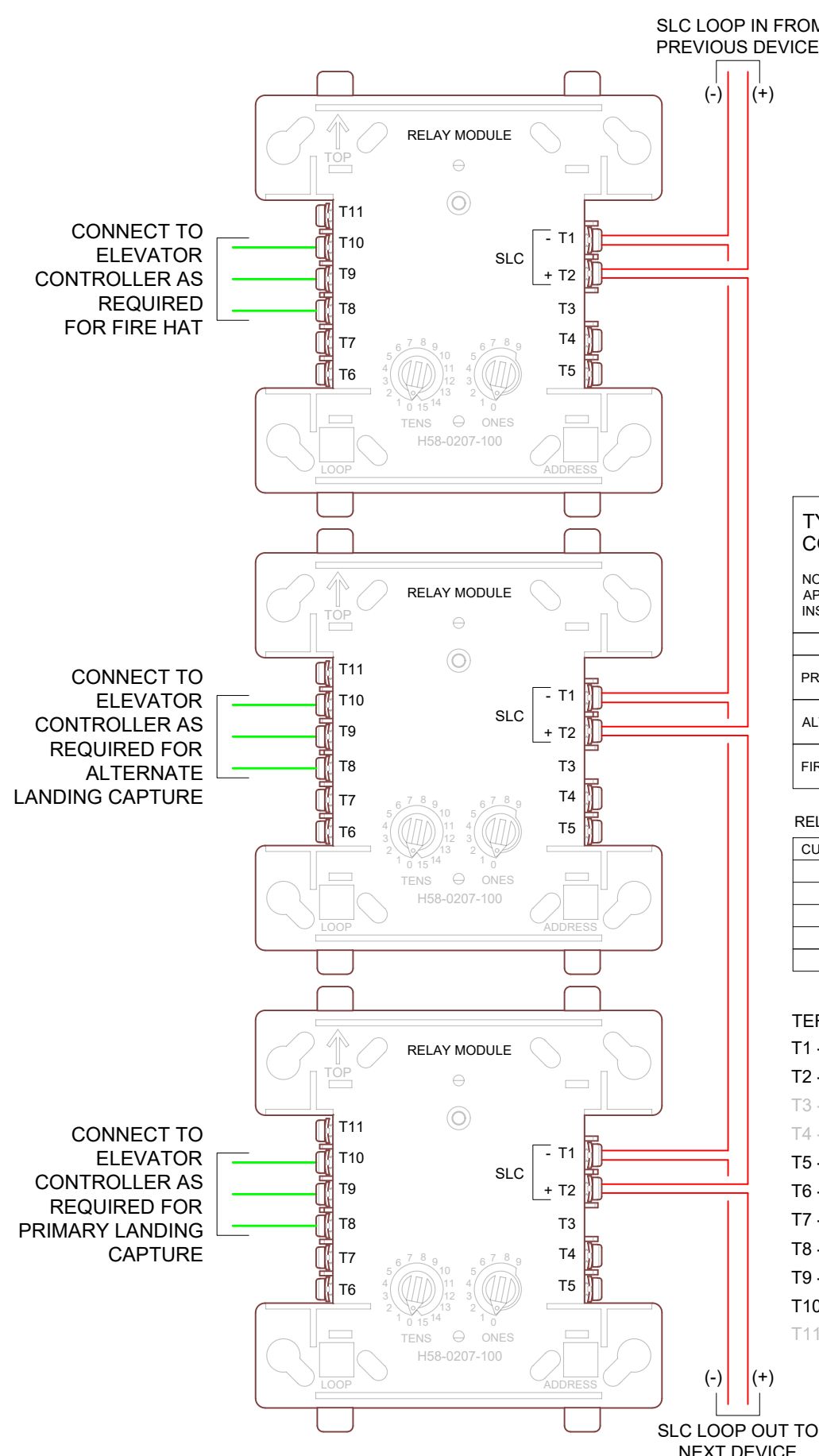
LED-SERIES HORN / STROBE
CANDELA & AUDIBLE SETTINGS



SYSTEM SENSOR P2RK
OUTDOOR HORN / STROBE



P2RK OUTDOOR HORN / STROBE
CANDELA & AUDIBLE SETTINGS



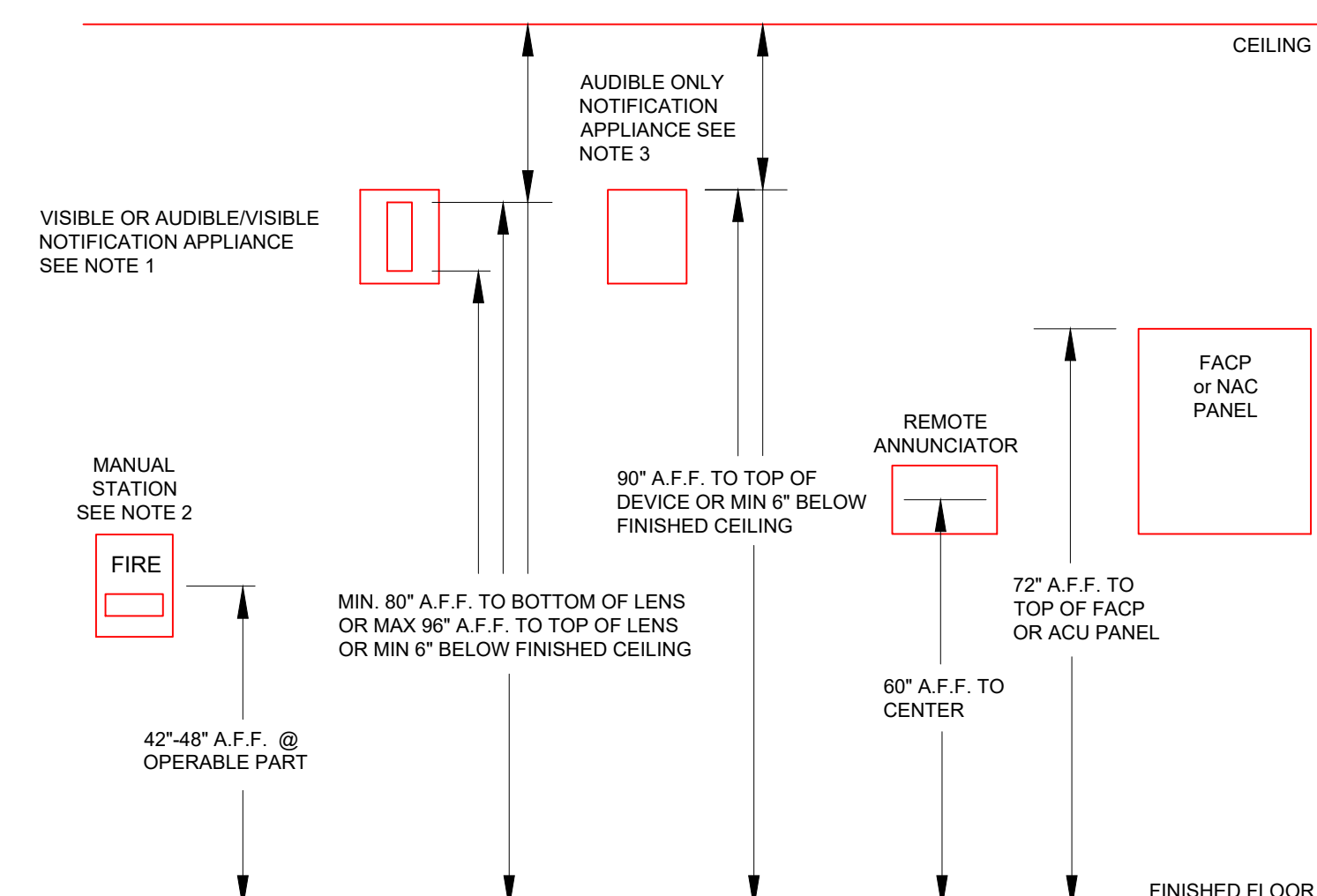
FRM-1 RELAY MODULE/ELEVATOR INTERFACES

TYPICAL ELEVATOR CONTROL MATRIX		DETECTOR LOCATION			
		ELEVATOR MACHINE ROOM	ELEVATOR SHUNT TRIP (IF ANY)	DESIGNATED FLOOR	NON-DESIGNATED FLOOR
PRIMARY RECALL					X
ALTERNATE RECALL		X	X	X	
FIREMAN'S HAT INDICATOR		X	X		

RELAY CONTACT RATINGS:		
CURRENT RATING	MAXIMUM VOLTAGE	LOAD DESCRIPTION
3 A	30 VDC	Resistive
0.9 A	125 VDC	Resistive
2 A	25 VAC	Inductive (PF=35)
0.5 A	125 VAC	Inductive (PF=75)
0.3 A	125 VAC	Inductive (PF=35)

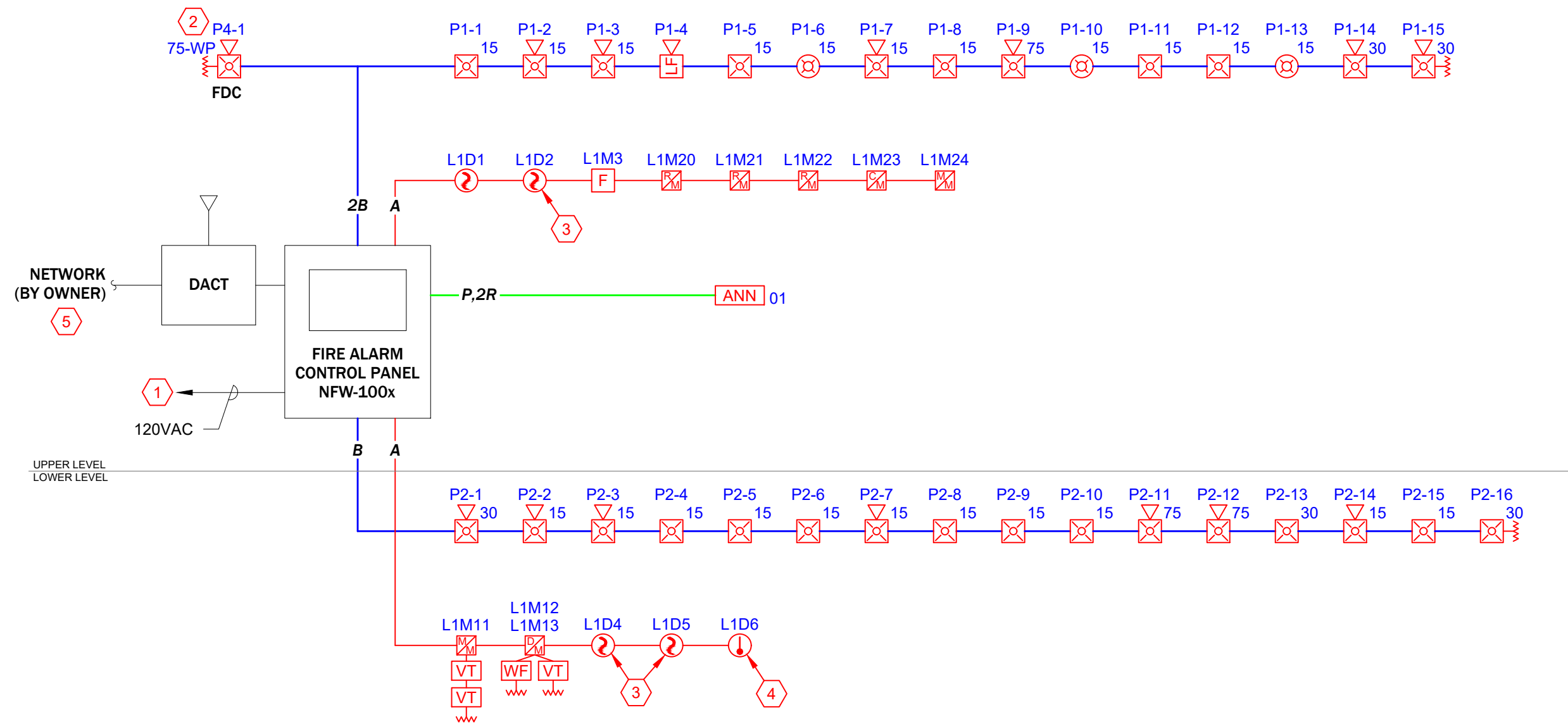
TERMINAL ID
T1 - SLC LOOP (-)
T2 - SLC LOOP (+)
T3 - NOT USED
T4 - NOT USED
T5 - NORMALLY OPEN 1
T6 - NORMALLY CLOSED 1
T7 - RELAY COMMON 1
T8 - NORMALLY OPEN 2
T9 - NORMALLY CLOSED 2
T10 - RELAY COMMON 2
T11 - NOT USED

- NOTES:
- VISIBLE OR AUDIBLE/VISIBLE APPLIANCES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" A.F.F. OR GREATER THAN 96" A.F.F. WHERE LOW CEILING HEIGHTS PREVENT ABOVE, MOUNT AT 6" BELOW CEILING TO TOP OF LENS. FOR CORRIDORS 20' OR LESS WIDE, MOUNT VISUAL APPLIANCES NO MORE THAN 15' FROM END OF CORRIDOR WITH NO MORE THAN 100' SEPARATION BETWEEN VISUAL APPLIANCES. MAXIMUM CORRIDOR LENGTH COVERED BY A SINGLE 15cd STROBE SHALL NOT EXCEED 30'.
 - MOUNT MANUAL STATIONS WITHIN 5' OF EXIT DOORWAY OPENING.
 - AUDIBLE ONLY APPLIANCES SHALL BE MOUNTED SO THAT THE TOP OF DEVICE IS NOT LESS THAN 90" A.F.F. IF CEILING PERMITS AND A MINIMUM 6" FROM CEILING.



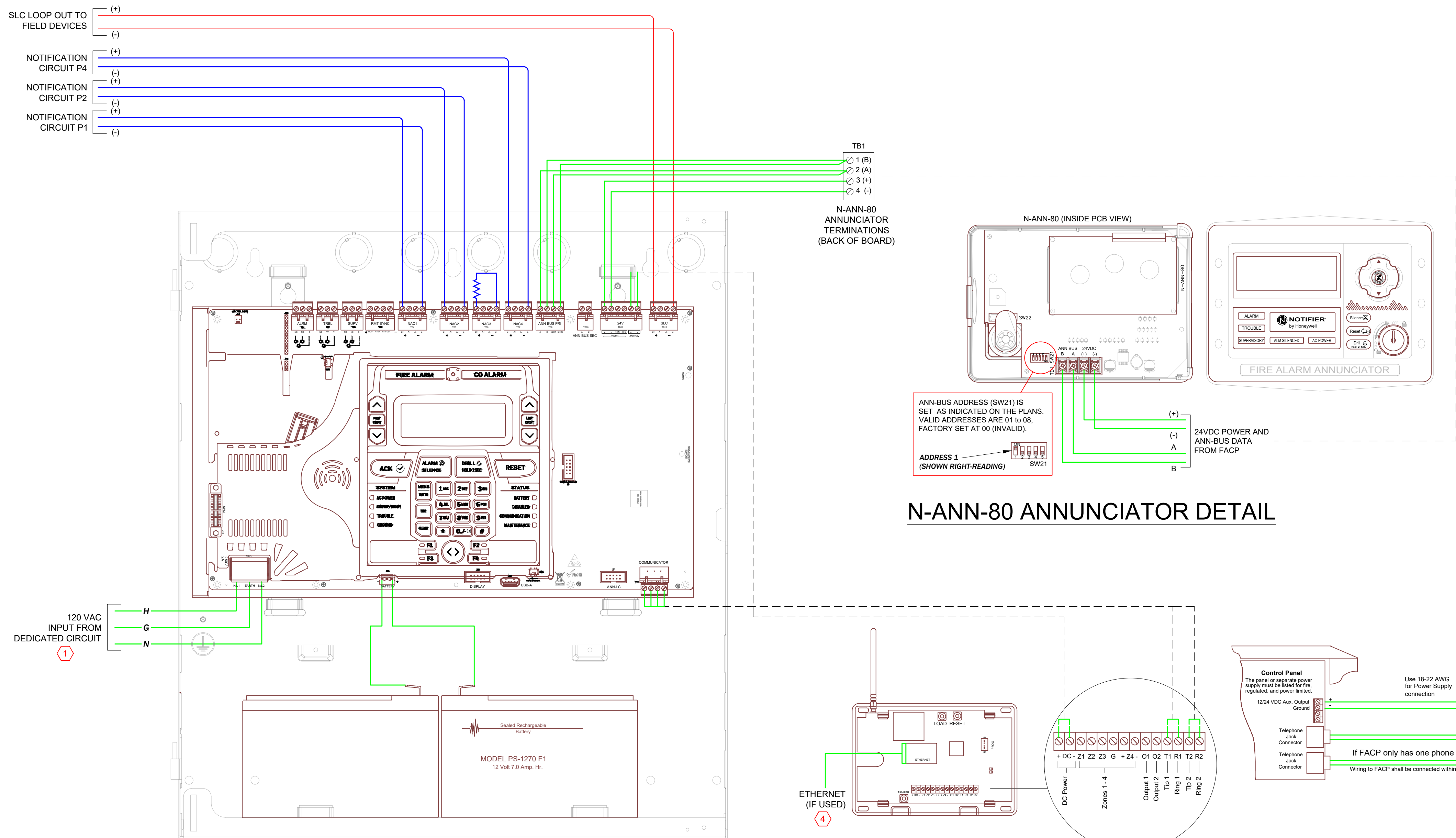
INSTALLATION HEIGHTS FOR
WALL MOUNTED DEVICES

KEYED NOTES		DWG SHEET # FA-103
KEY #	NOTE TEXT	
1	120VAC DEDICATED AC POWER FOR FIRE ALARM SYSTEM. TO BE PROVIDED BY ELECTRICAL CONTRACTOR.	
2	EXTERIOR NOTIFICATION DEVICE LOCATED DIRECTLY ABOVE FIRE DEPARTMENT SIAMESE CONNECTION (FDC) AT 10' A.F.G. DEVICE PROGRAMMED TO ACTIVATE ON SPRINKLER WATERFLOW IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0. SEE DETAIL ON FA-102 FOR SOUNDER SETTINGS.	
3	DETECTOR PROGRAMMED FOR ELEVATOR CONTROL IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0.	
4	HEAT DETECTOR(S) TO BE LOCATED WITHIN 24" OF EACH SPRINKLER HEAD IN ELEVATOR HOISTWAY AND MACHINE ROOM. DEVICE PROGRAMMED FOR ELEVATOR POWER SHUNT TRIP IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0. SHUNT TRIP EQUIPMENT BY OTHERS.	
5	OWNER TO PROVIDE I/P CONNECTION FOR DACT IF DESIRED FOR PRIMARY OR BACKUP COMMUNICATION CHANNEL TO CENTRAL STATION MONITORING SERVICE.	

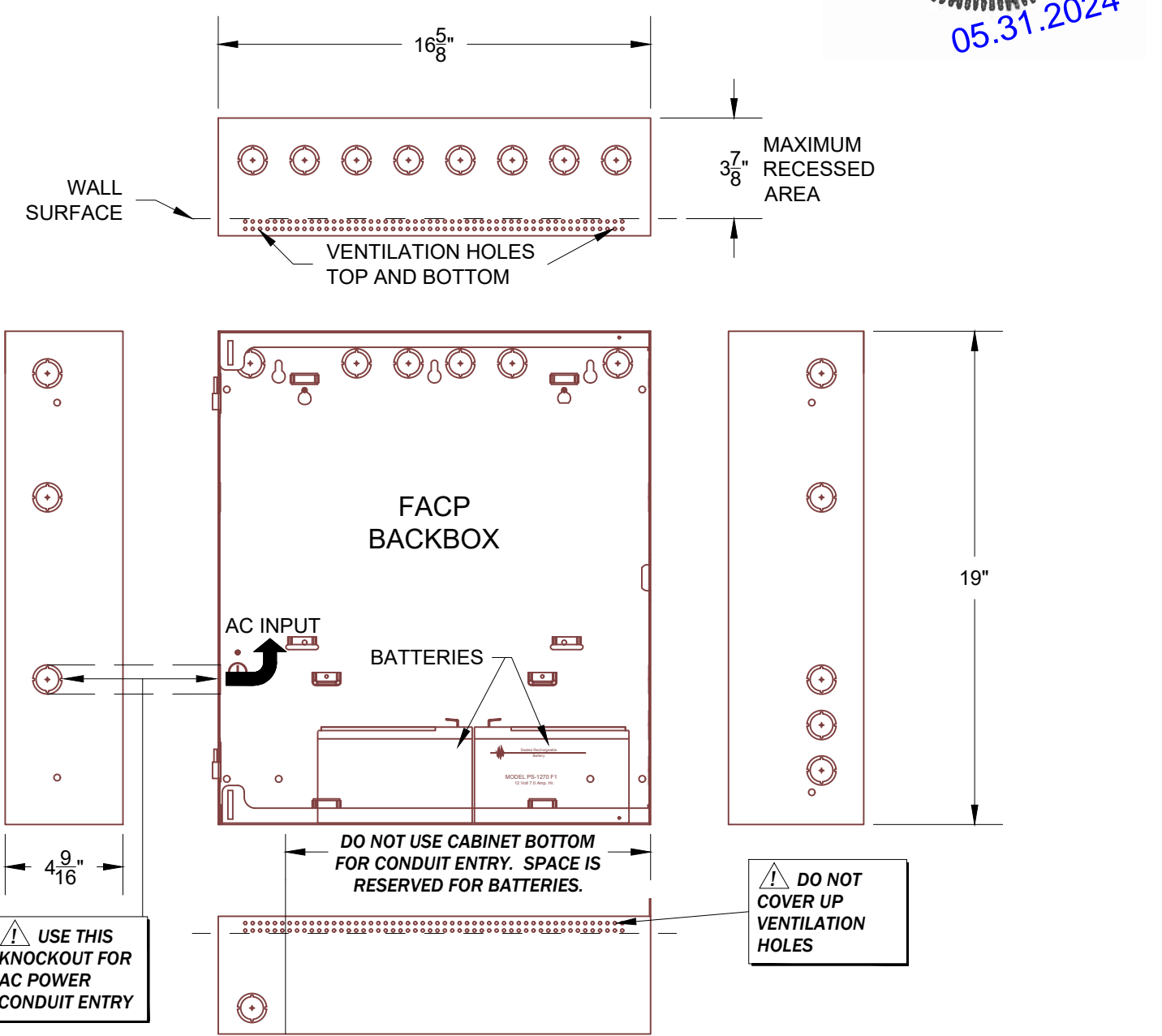


1 RISER DIAGRAM - CLUBHOUSE

SCALE: NONE



NFW-100X PANEL CONNECTION DETAILS



NFW-50X, 100X BACKBOX MOUNTING DETAIL

REVISION DESCRIPTION

DATE

NO.

Residences at Blackwell

2840 SE Blue Parkway, Lee's Summit MO 64063

prepared for: Ridgeline Power Group

4700 Roe Parkway, Mission, KS 66205

DRAWN BY:

DESIGNED BY:

APPROVED BY:

PROJECT NUMBER:

SHEET TITLE:

SHEET NUMBER:

DATE:

DATE:

DATE:

FIRE ALARM SYSTEM

Panel Mounting & Wiring

Riser Diagram - Clubhouse

DATE:

DATE:

DATE:

FA-103

4 of 2

MIDWEST

ALARM

SERVICES

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