

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	NOTIFICATION APPLIANCE CIRCUITS (NAC) & INITIATING DEVICE CIRCUITS (IDC) ARE SUPERSEDED.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 RESIDUALS 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 addressible fire alarm system is being provided in each building with horn/strobe notification.

Clubhouse

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.

Apartment Units

According to contract documents, the apartment buildings are primary occupancy group R-2 with areas of A-3. Single-Station smoke and CO detectors for the R-2 area are provided by others. CO detection on bldg system is provided in attached garages on the 1st floor. Wiring provisions for building notification in sleeping areas is provided and included in circuit calculations per code. None of the six AHUs are over 2,000 CFM to require detection and shutdown.

The Clubhouse building was submitted earlier, but is included in this set for completeness and shared details.

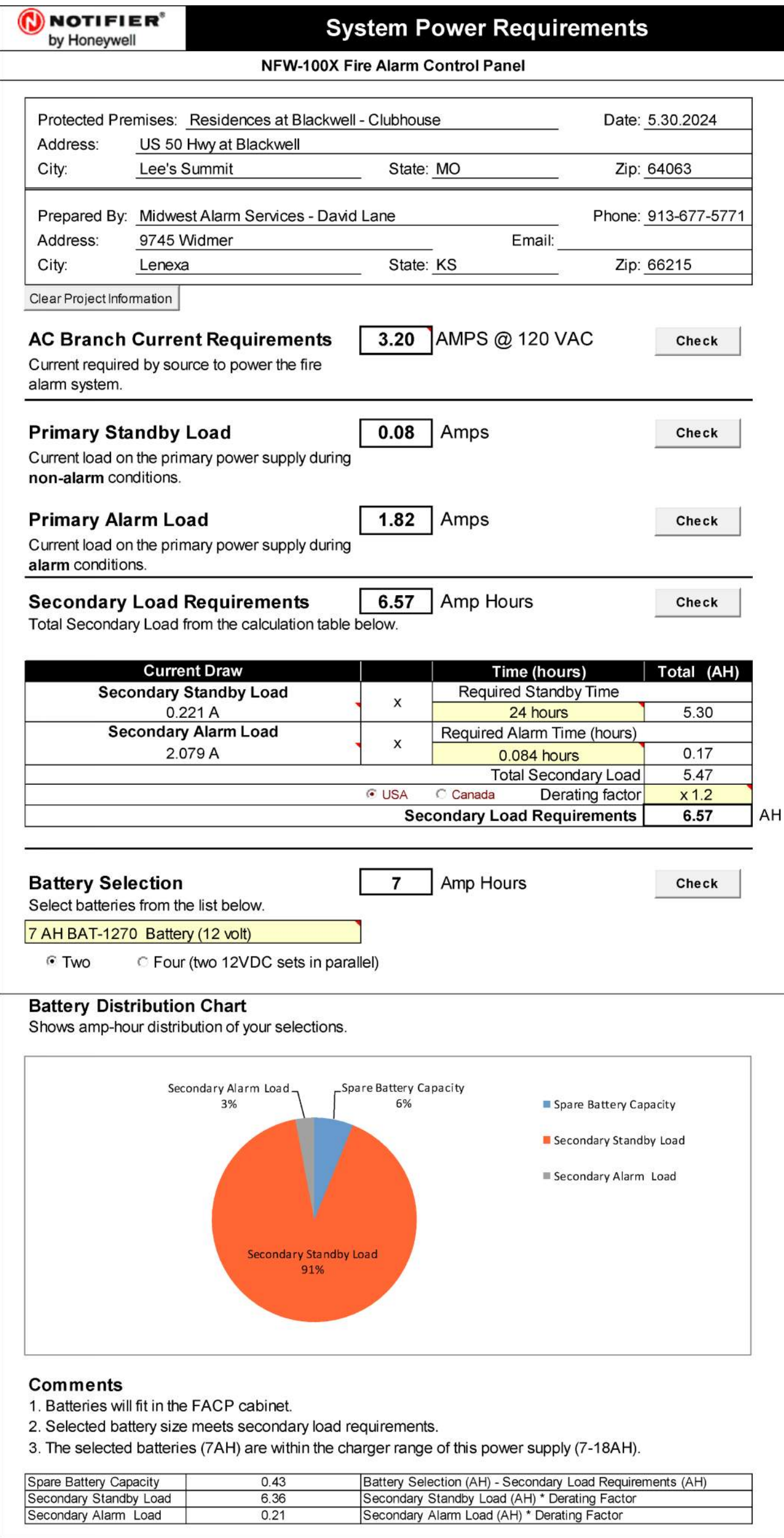
SYSTEM INPUTS										AL	SL	TR	RE	Tr	AC	SL	SO	EL	EL
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - OPEN		●			●														
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - SHORT		●			●														
SIGNALING LINE OR NOTIFICATION APPLIANCE CIRCUIT - GROUND		●			●														
FIRE ALARM CONTROL 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		●			●														
CARBON MONOXIDE (CO) DETECTOR (APT. GARAGES ONLY)																●			
















1. AC POWER LOSS REPORTED TO SUPERVISING STATION AFTER DELAY OF 30 MINUTES (PROGRAMMABLE).

DRAWING INDEX:

Sheet:	Title:	Revision #:	Date Issued:
FA-0	COVER SHEET, NOTES, CALCULATIONS FOR CLUBHOUSE		05.30.2024
FA-101	FIRE ALARM FLOOR PLAN - CLUBHOUSE		05.30.2024
FA-102	DEVICE MOUNTING & WIRING DETAILS		05.30.2024
FA-103	PANEL MOUNTING & WIRING, RISER DIAGRAM - CLUBHSE		05.30.2024
FA-201	FIRE ALARM FLOOR PLAN - APARTMENT 1L, 1ST LEVEL		07.18.2024
FA-202	FIRE ALARM FLOOR PLAN - APARTMENT 2ND & 3RD LEVEL		07.18.2024
FA-203	FIRE ALARM FLOOR PLAN - APT. 4TH LVL, RISER		07.18.2024
FA-204	CALCULATIONS & PANEL MOUNTING - APARTMENT		07.18.2024

NOTIFICATION POWER SUMMARY - HORN-STROBE CIRCUITS - Clubhouse												
FACP	Ckt Design	Qty Dev	Alarm Load	Max. Load	Percent of Max	Circuit Length	wire type	Start Volts	Line A	Load A	% 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 FTS	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 FTS	14ga solid Cu	20.4	0.28	115.9	0.05 V	20.35
	N/A	5	0.000 A	0.00 A	#DIV/0!	0 FT	14ga solid Cu	20.4	0.00		0.00 V	20.40
	N/A	6	0.000 A	0.00 A	#DIV/0!	6 FT	14ga solid Cu	20.4	0.04		0.00 V	20.40
TOTALS	32	1,218 A	3.0 A	40.60%								



FIRE ALARM SYMBOLS LEGEND	
SYMBL	DESCRIPTION
	NOTIFIER NFW-100X FIRE ALARM PANEL MOUNT AS SHOWN AT 7'2" 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 NBG-12LX ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG 1.875" DEEP MIN
	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 BASE 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 BASE, 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 SOWLED STROBE, CEILING MOUNT, WHITE MOUNT IN DROP CEILING TILE OR BOTTOM OF CLING TRUSS BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR P2WLED HORN/STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR HWL-LF LOW FREQ. HORN, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
	SYSTEM SENSOR P2RH HORN/STROBE, WALL, OUTDOOR, RED MOUNT DIRECTLY ABOVE FDC AT 8'-10" A.F.G BACK BOX: PLASTIC BACKBOX PROVIDED WITH DEVICE

FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, 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 SERIALLY 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 REMOVE
 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

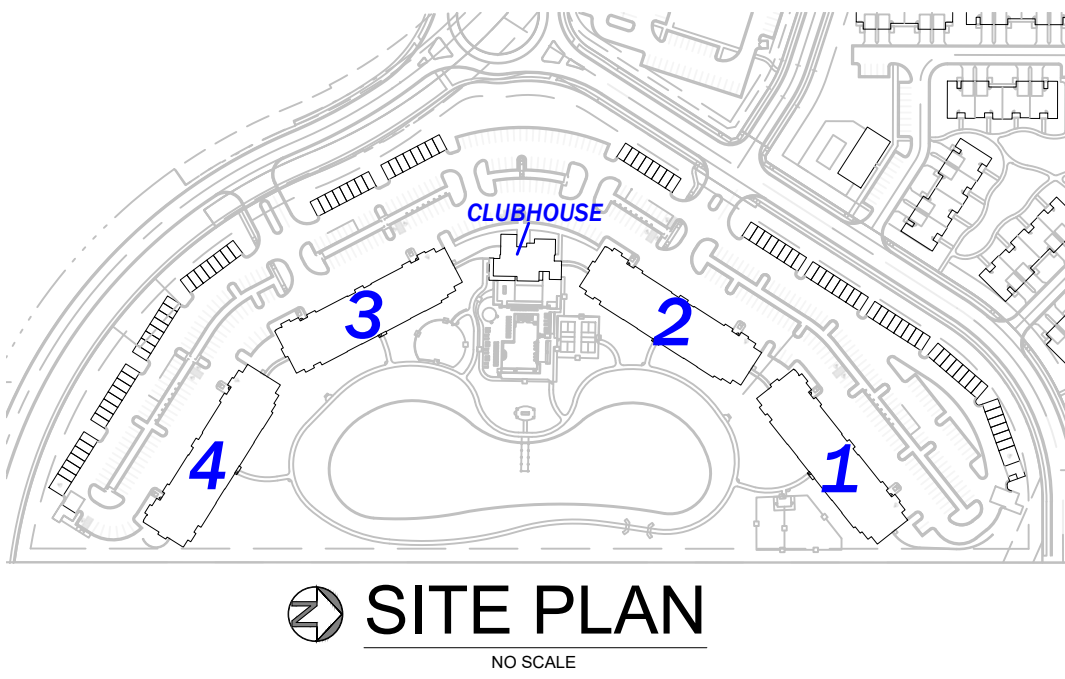
NO2-1-01 = DEVICE NUMBER
 END OF LINE RESISTOR
 (LAST DEVICE ON CKT)
 CANDELA RATING

NOTIFICATION APPLIANCES

SLC (L1 ONLY THIS PANEL)
 DENOTES DEVICE TYPE
 "M"=MODULE, "D"=DETECTOR
 DEVICE ADDRESS NUMBER
 (1-99 DET, 1-99 MOD)

L1D01

MODULES
 DETECTORS



KEYED NOTES		DWG SHEET # FA-101
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 SIAMSE 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	RESIDENTIAL UNIT REQUIRED SINGLE-STATION SMOKE DETECTOR IS PROVIDED AND INSTALLED BY OTHERS.	
⑥	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.	

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.

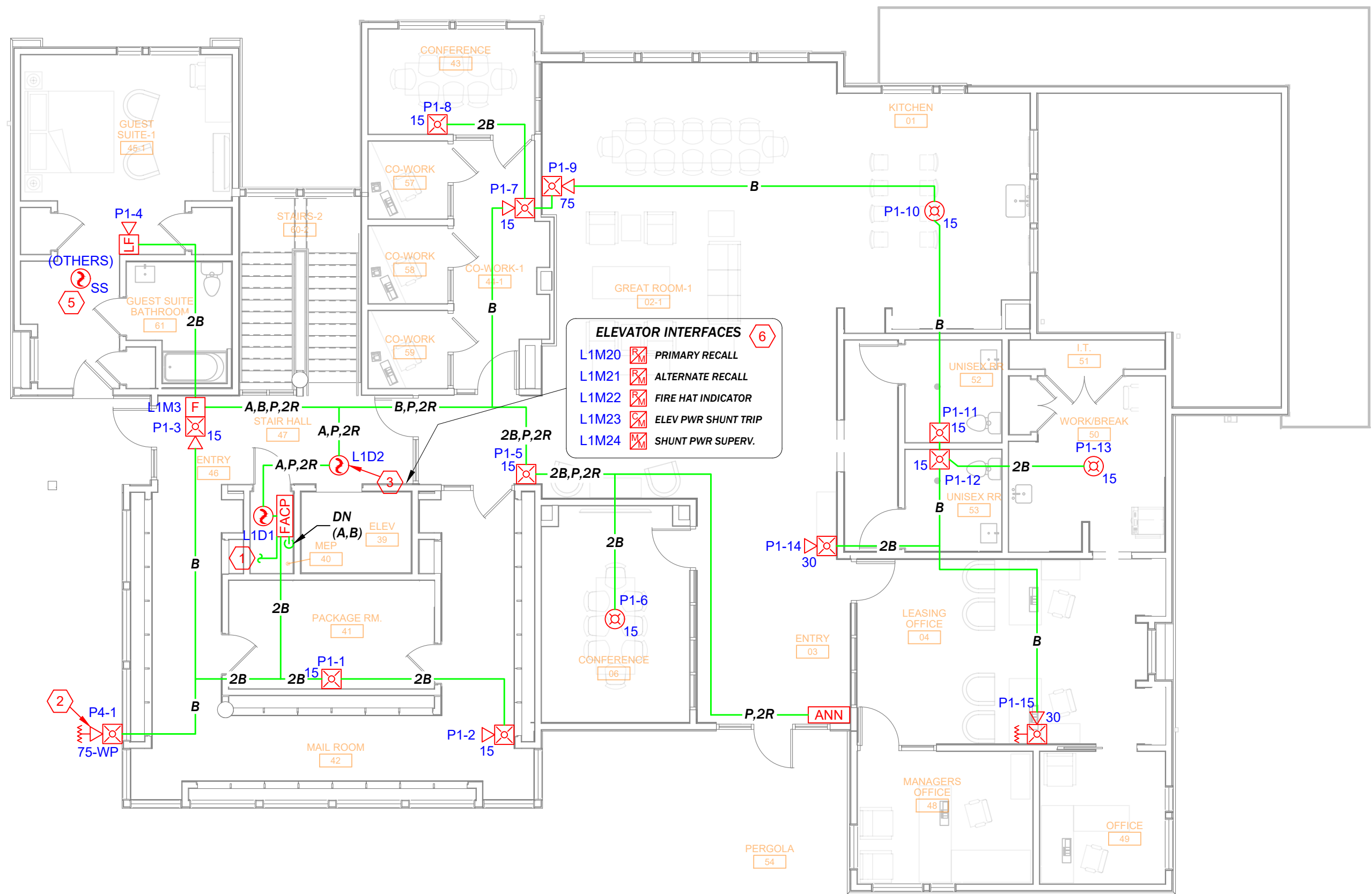
FIRE ALARM WIRE LEGEND	
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R	ANNUNCIATOR DATA CIRCUIT (ANN-BUS), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE. FPLP

WIRE TAG AND PATHWAY LEGEND	
	COMBINED FIRE ALARM WIRE PATHWAY
	CABLE IDENTITY - LETTER
	QUANTITY OF CABLE - NUMBER (NO NUMBER INDICATES QTY OF ONE)

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DEVICE NUMBERING DETAILS	
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	DEVICE NUMBER N 30
	NOTIFICATION APPLIANCES
	SLC (L1 ONLY THIS PANEL)
	DENOTES DEVICE TYPE "M"=MODULE, "D"=DETECTOR
	DEVICE ADDRESS NUMBER (1-99 DET, 1-99 MOD)
	ADDRESSABLE DEVICES

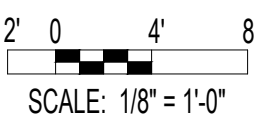
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	SYSTEM SENSOR P2RK HORN/STROBE, WALL, OUTDOOR, RED MOUNT DIRECTLY ABOVE FDC AT 8'-10' A.F.G BACK BOX: PLASTIC BACKBOX INCLUDED WITH DEVICE



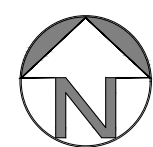
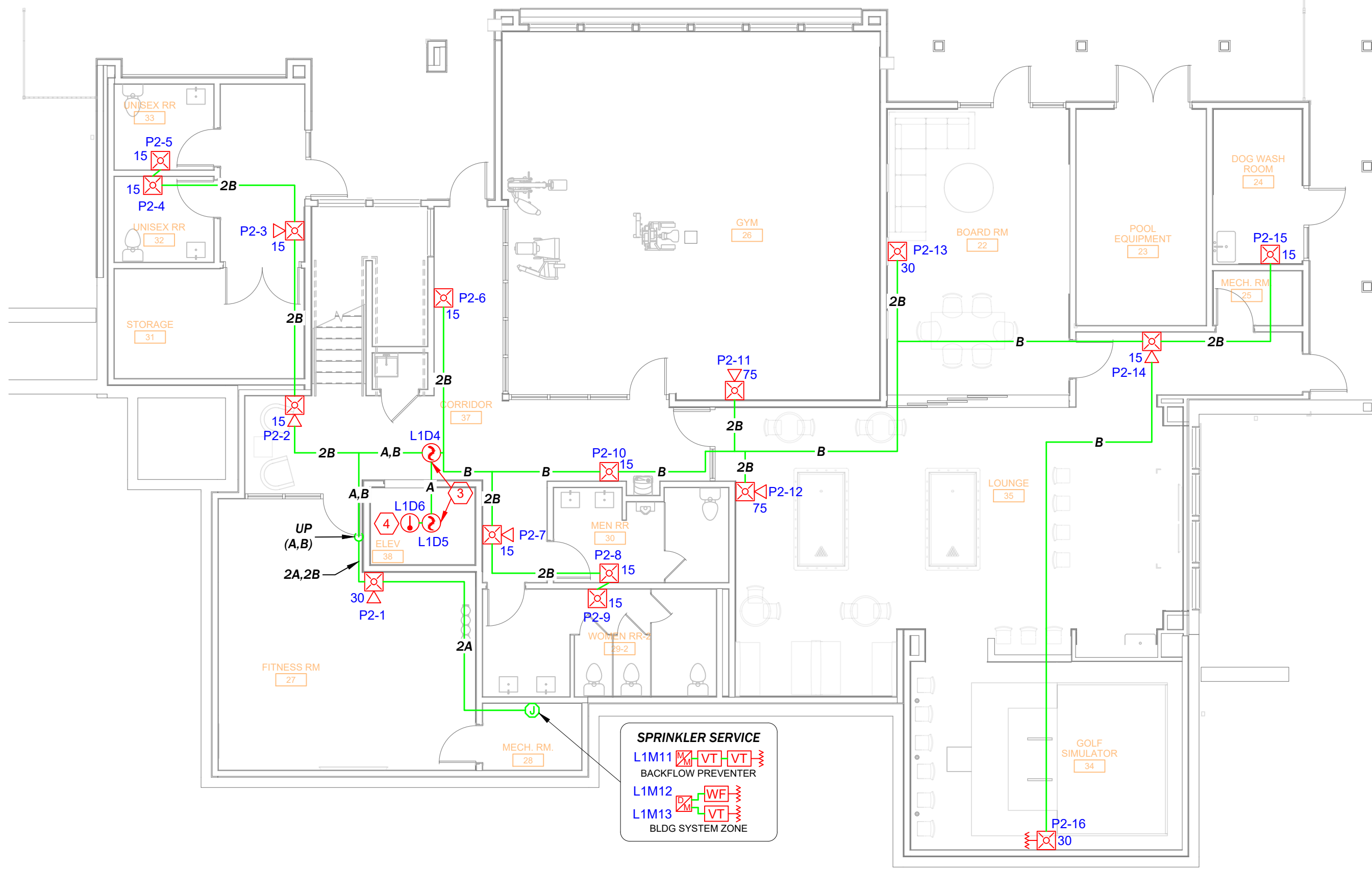
2

Fire Alarm Plan - Club House UL

SCALE: 1/8"=1'-0"



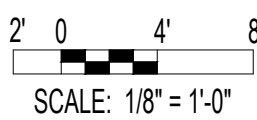
SCALE: 1/8"=1'-0"



1

Fire Alarm Plan - Club House LL

SCALE: 1/8"=1'-0"

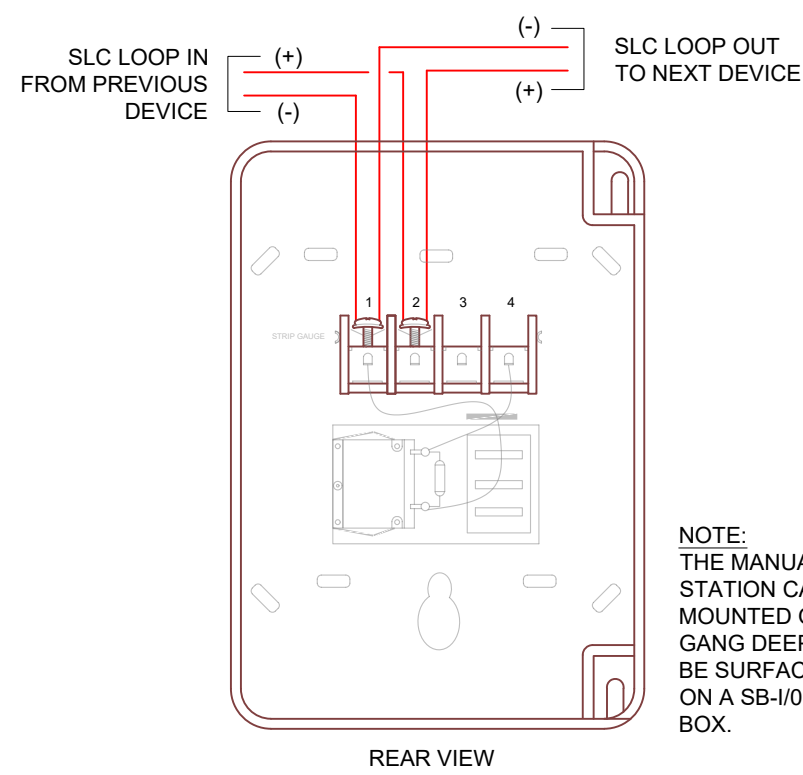


SCALE: 1/8"=1'-0"

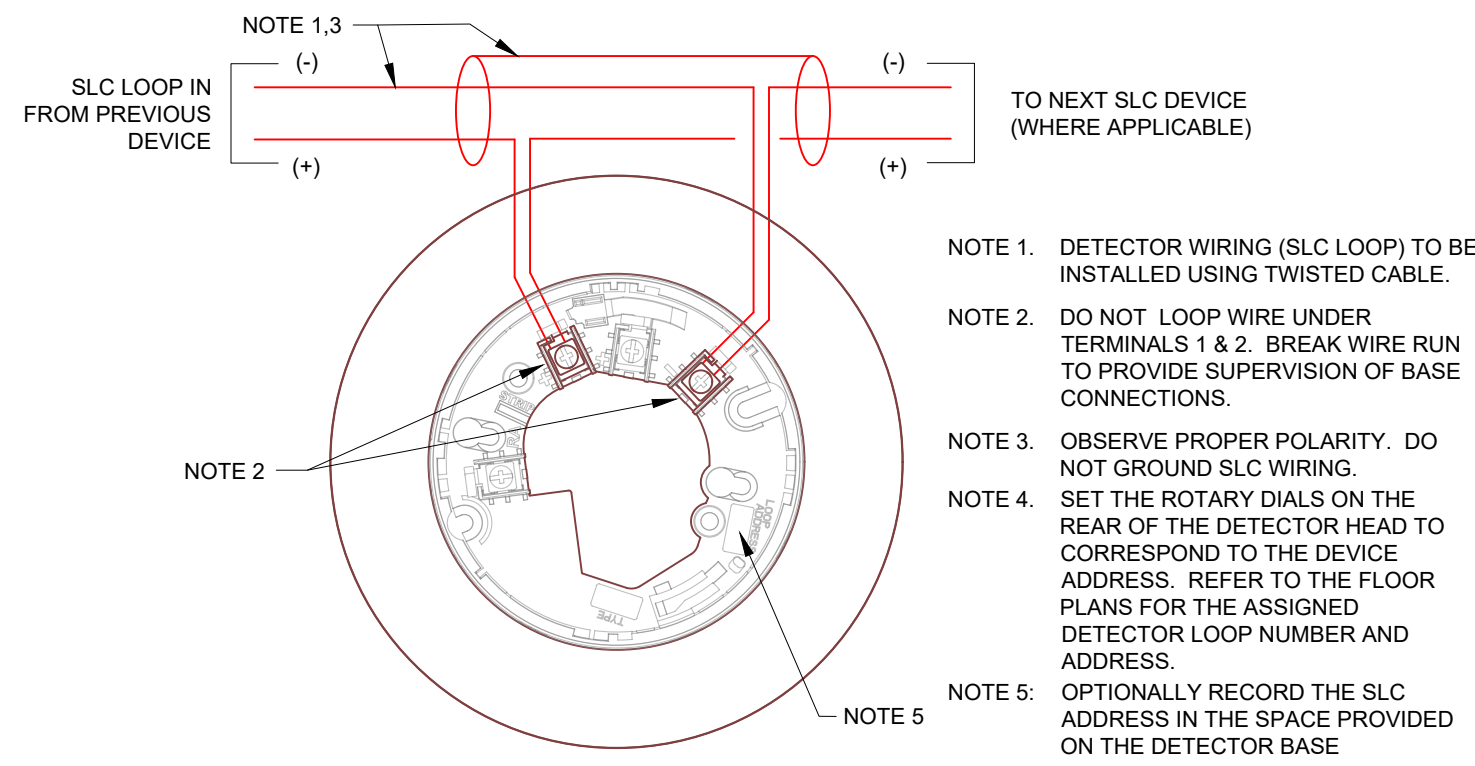


Residences at Blackwell
2840 SE Blue Parkway, Lee's Summit MO 64063
prepared for: Ridgeline Power Group
4700 Roe Parkway, Mission, KS 66205

DRAWN BY:	DATE:
D. LANE	05.28.2024
DESIGNED BY:	DATE:
PR	05.07.24
APPROVED BY:	DATE:
PROJECT NUMBER:	
3303 24050258	
SHEET TITLE:	
FIRE ALARM SYSTEM	
Club House	
Floor Plan Layouts	
SHEET NUMBER:	
FA-101	

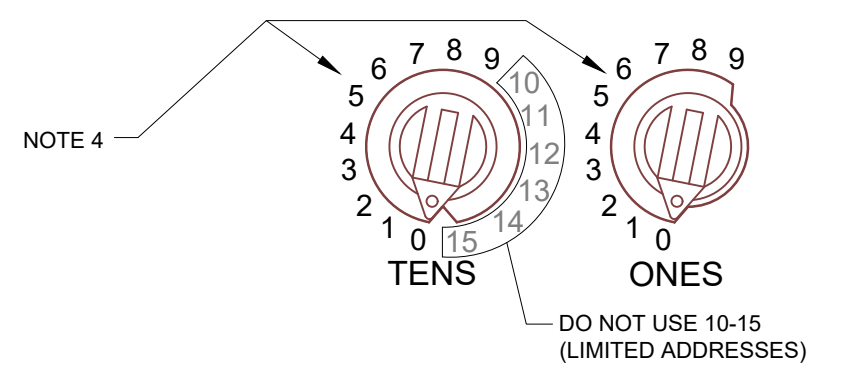


NBG-12LX MANUAL PULL STATION

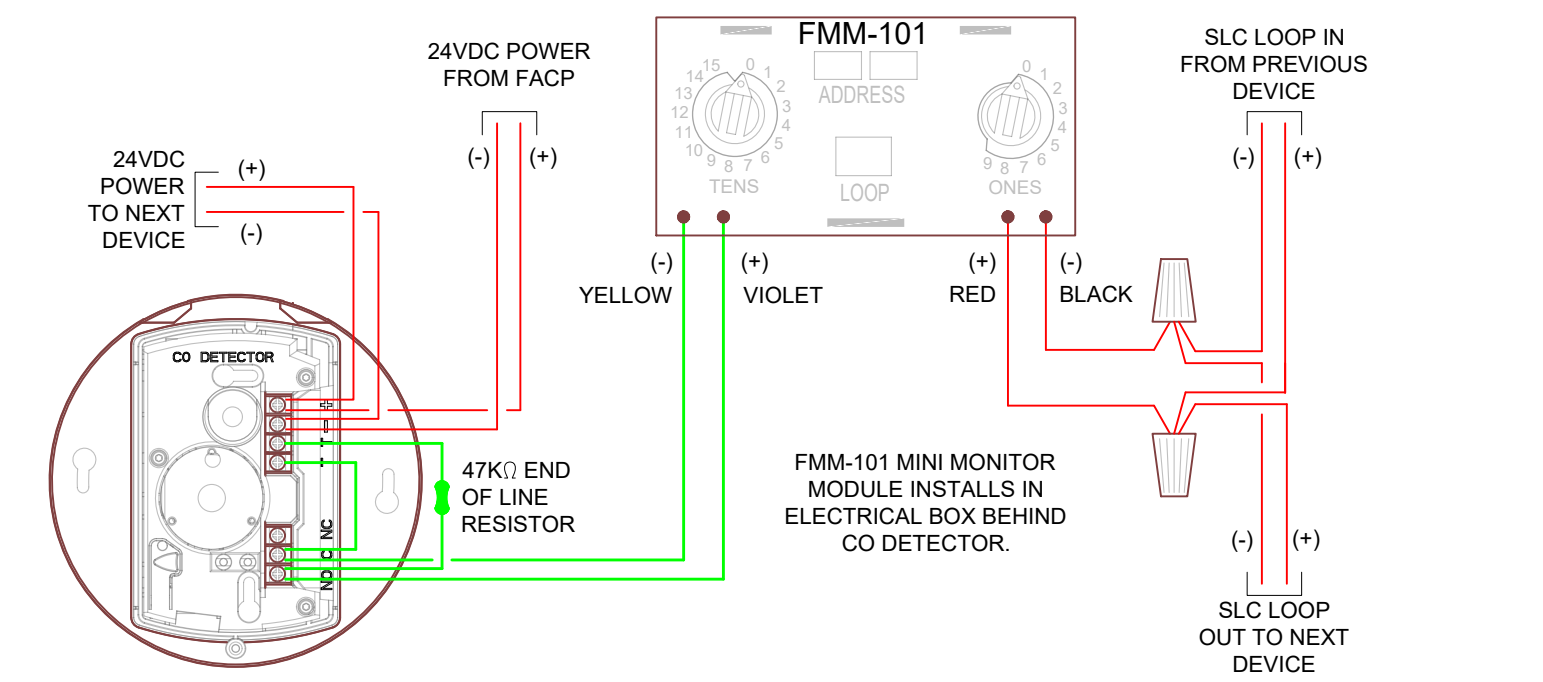


B300-6 DETECTOR BASE WIRING DETAIL

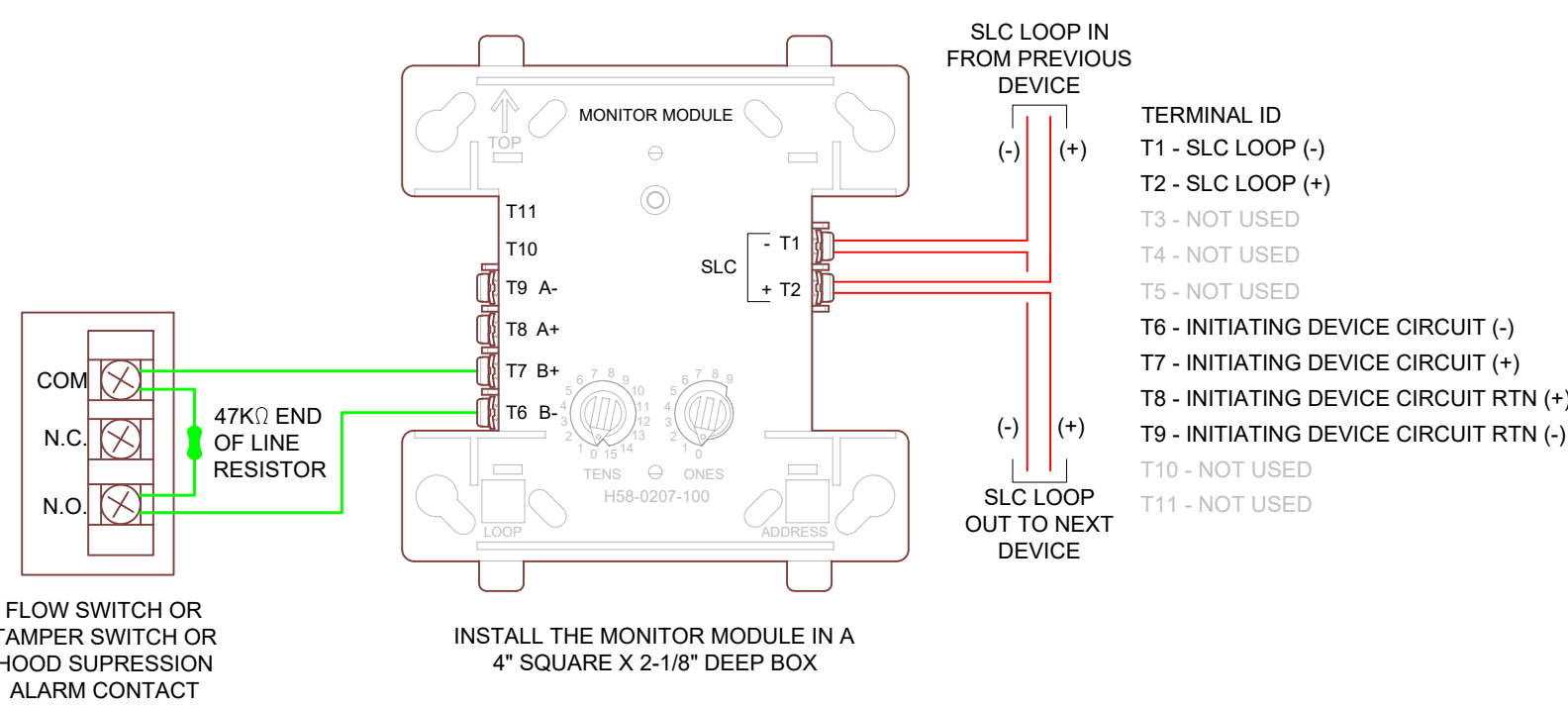
NOTE - LIMITED ADDRESSES:
EACH DEVICE CAN BE SET TO ONE OF 159 ADDRESSES (01-159), HOWEVER ONLY 99 DETECTOR AND 99 MODULE ADDRESSES ARE AVAILABLE IN THIS SYSTEM FOR A TOTAL OF 198 POINTS. CHANGE EACH DEVICE FROM FACTORY PRESET ADDRESS OF "00" USING A COMMON SCREWDRIVER TO ROTATE THE POINTER TO THE NUMBER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



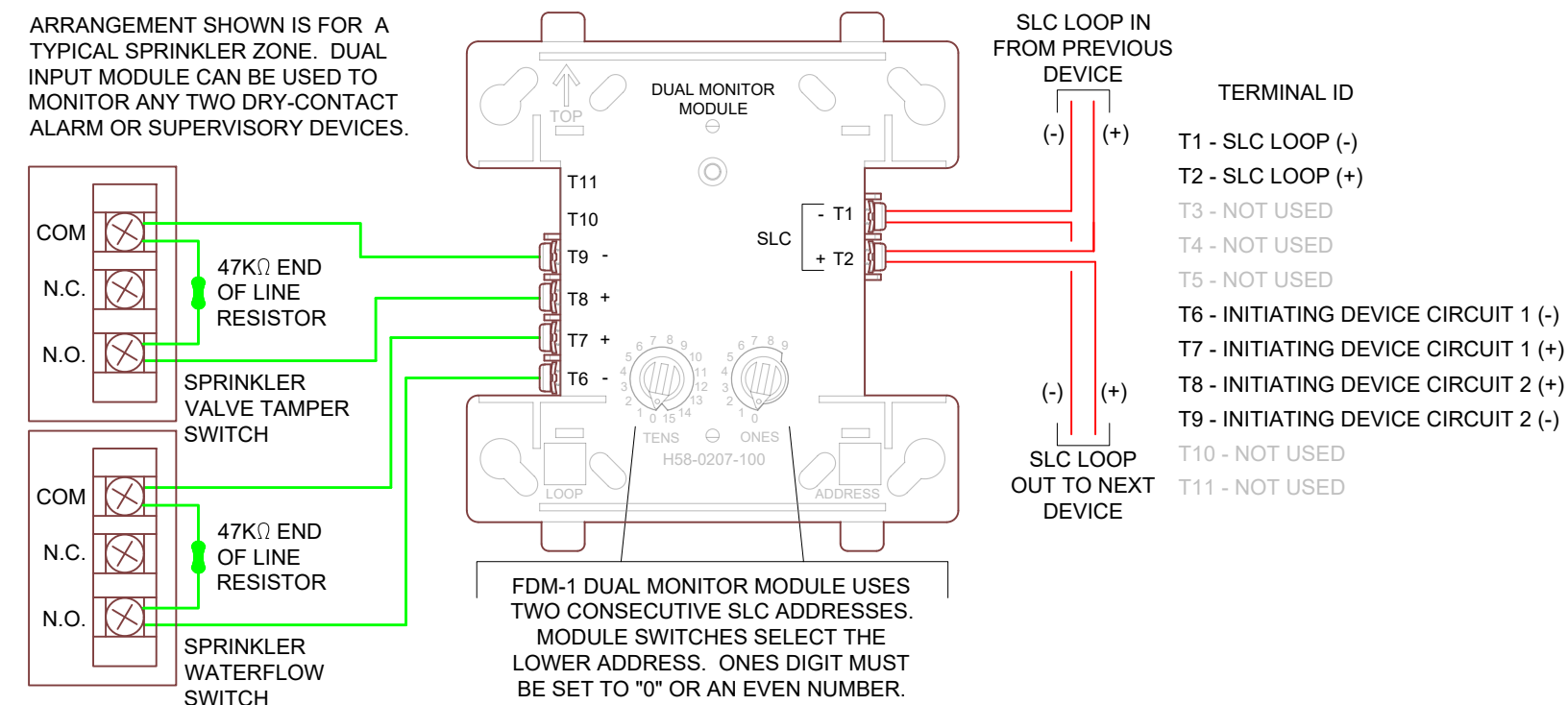
SETTING SLC ADDRESS
(ROTARY DIALS)



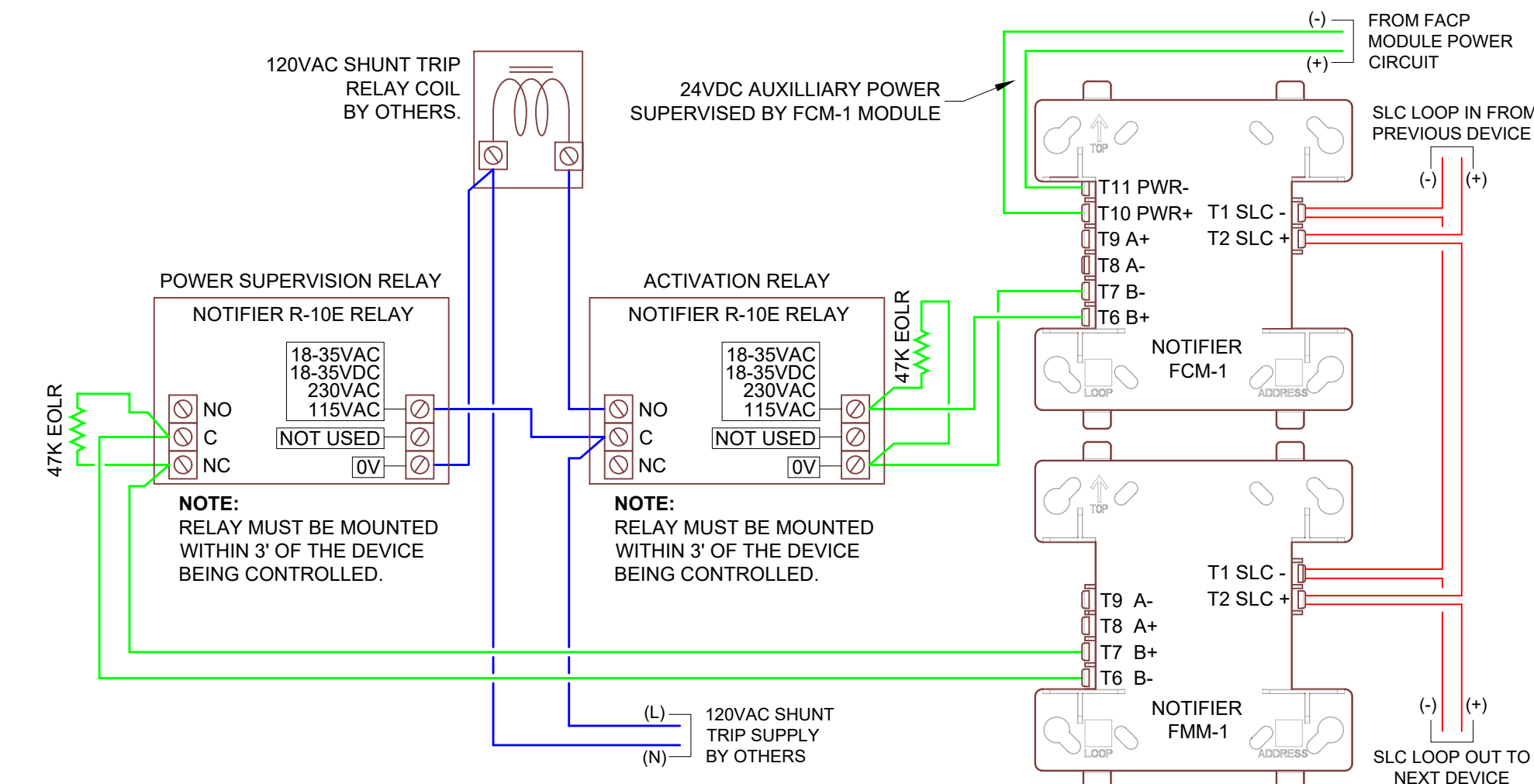
CO1224TR DETECTOR WITH FMM-101
MINI MONITOR MODULE



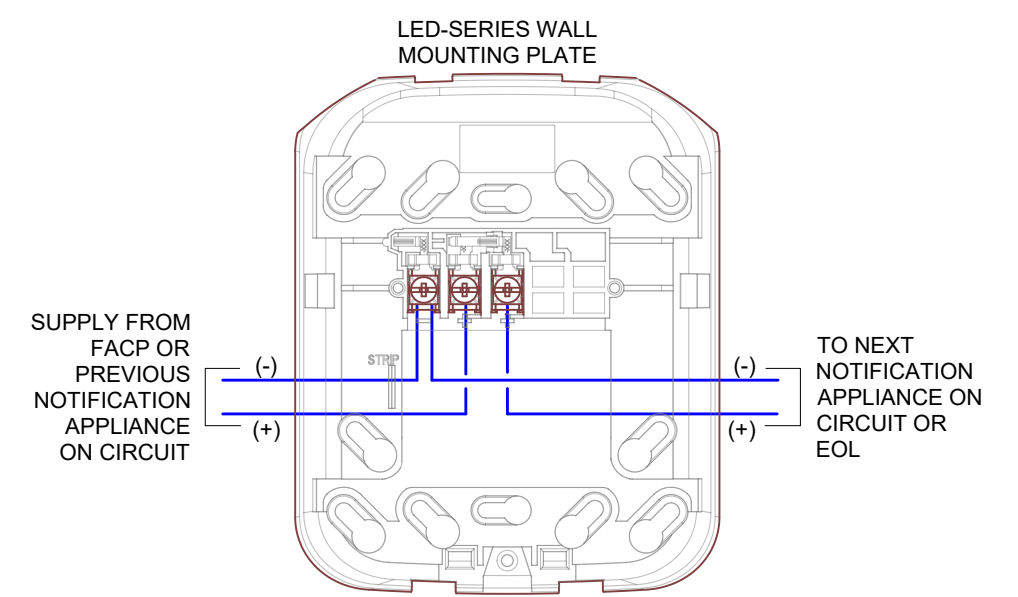
FMM-1 ADDRESSABLE MONITOR MODULE



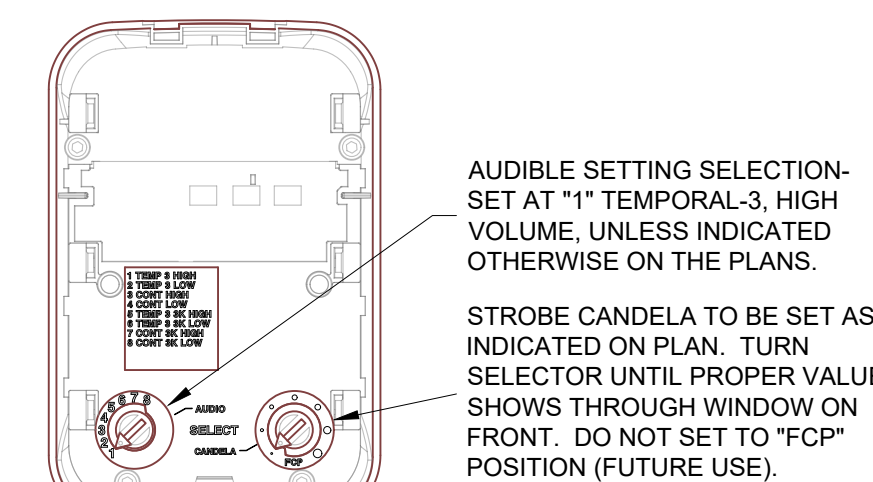
FDM-1 DUAL INPUT MONITOR MODULE - TYPICAL WIRING



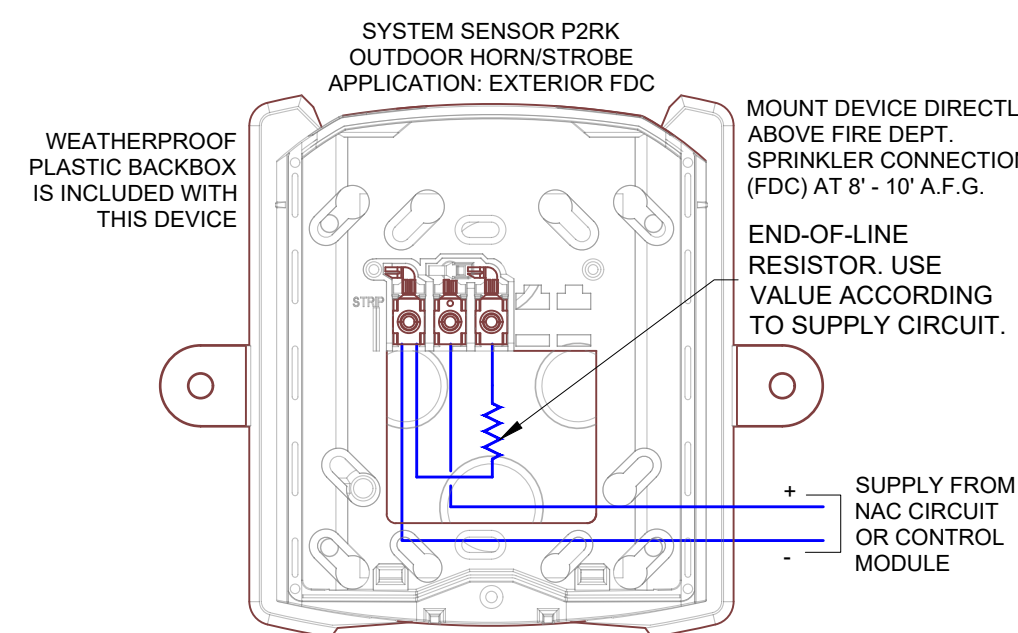
ELEVATOR SHUNT TRIP WIRING DETAIL



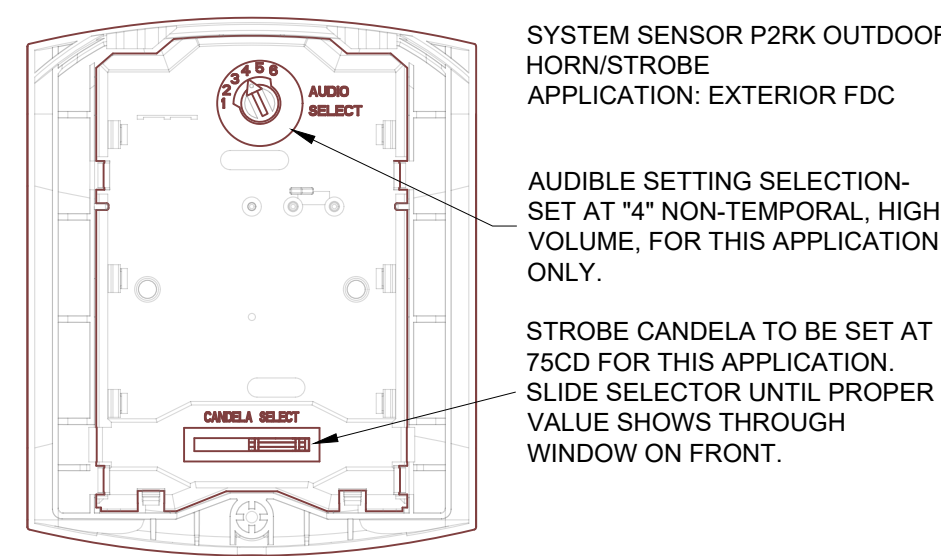
SYSTEM SENSOR LED-SERIES
HORN / STROBE & STROBE



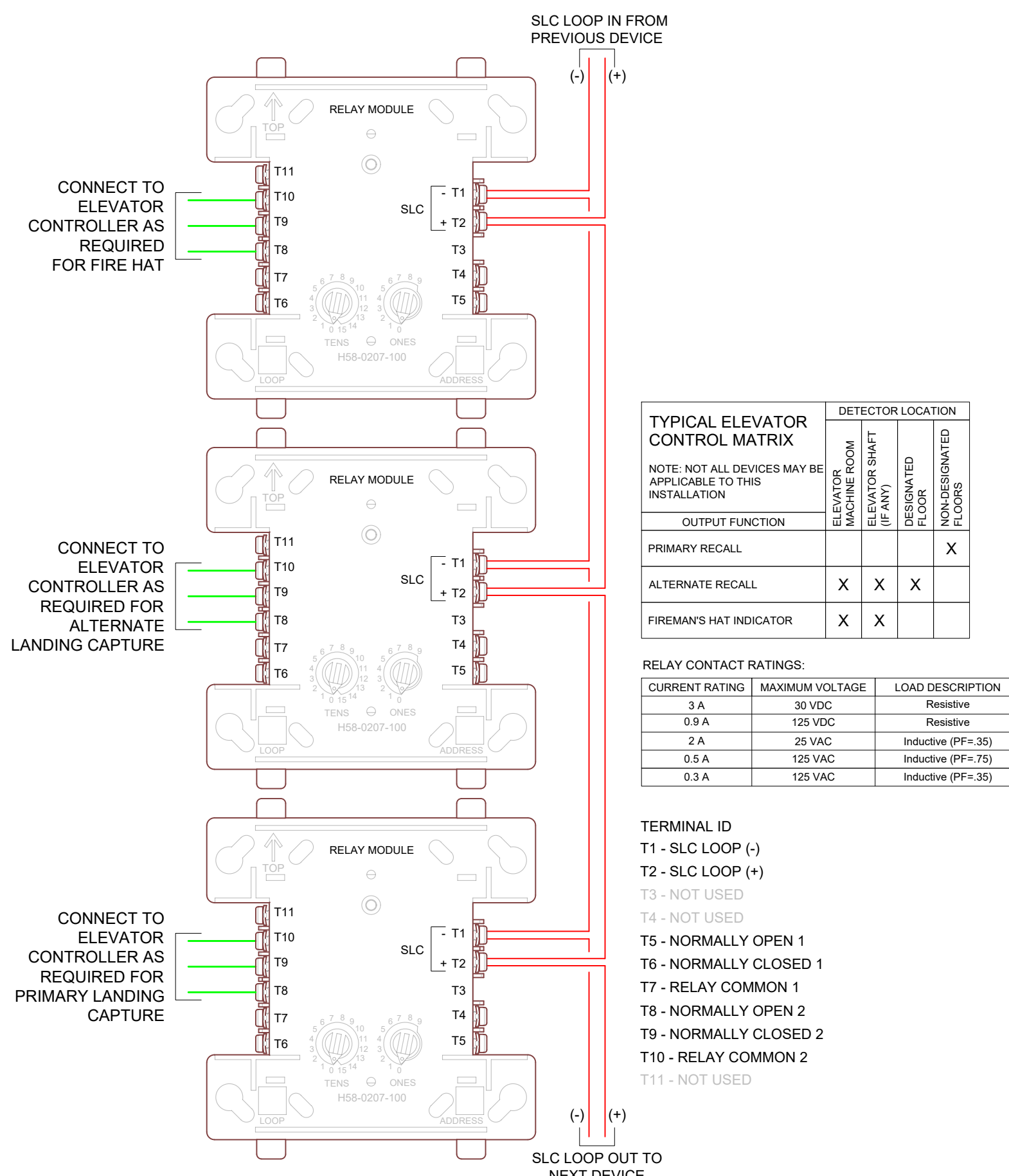
LED-SERIES HORN / STROBE
CANDELA & AUDIBLE SETTINGS



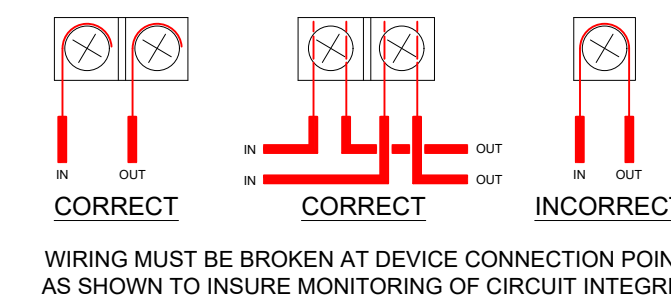
SYSTEM SENSOR P2RK
OUTDOOR HORN / STROBE



P2RK OUTDOOR HORN / STROBE
CANDELA & AUDIBLE SETTINGS

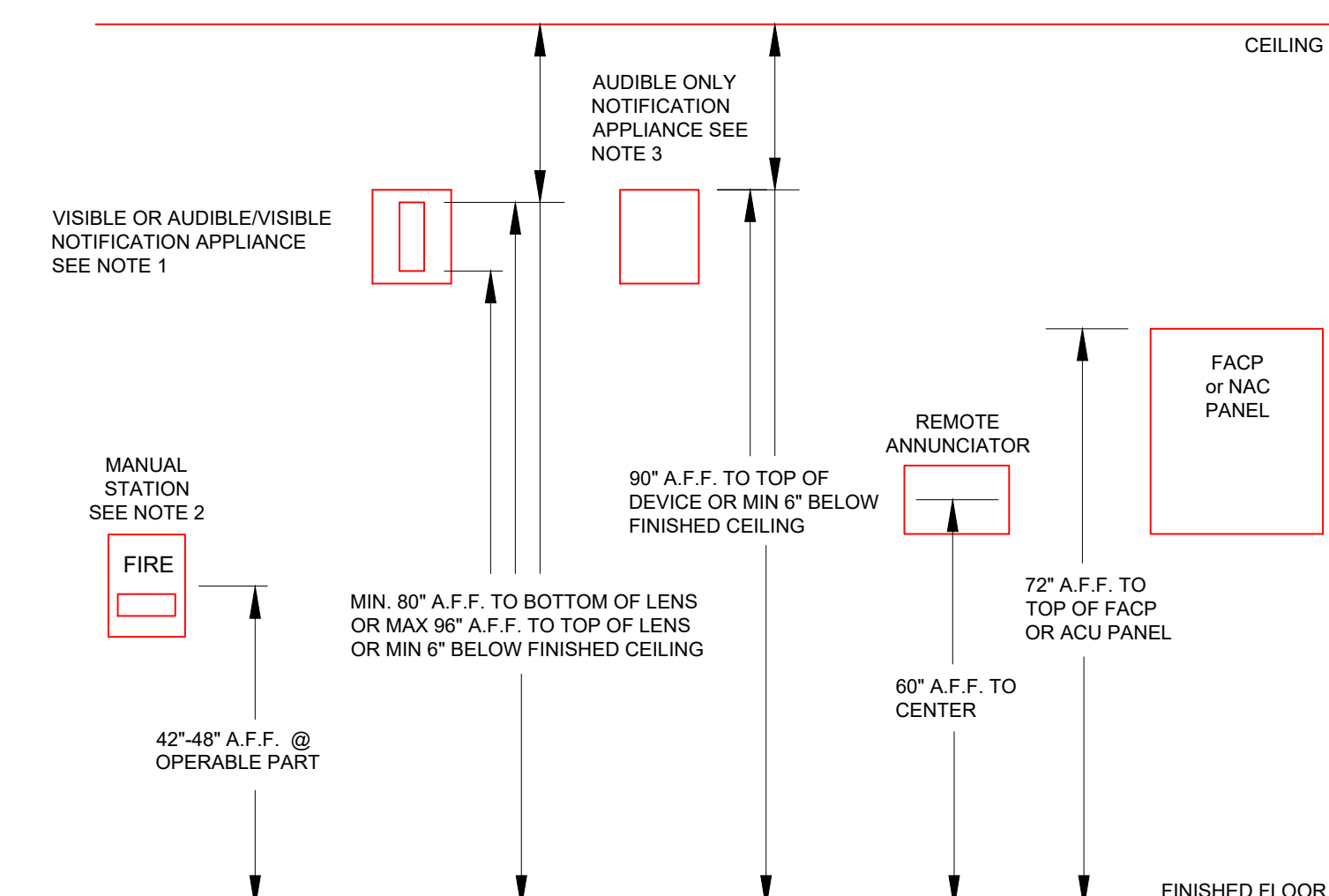


FRM-1 RELAY MODULE/ELEVATOR INTERFACES

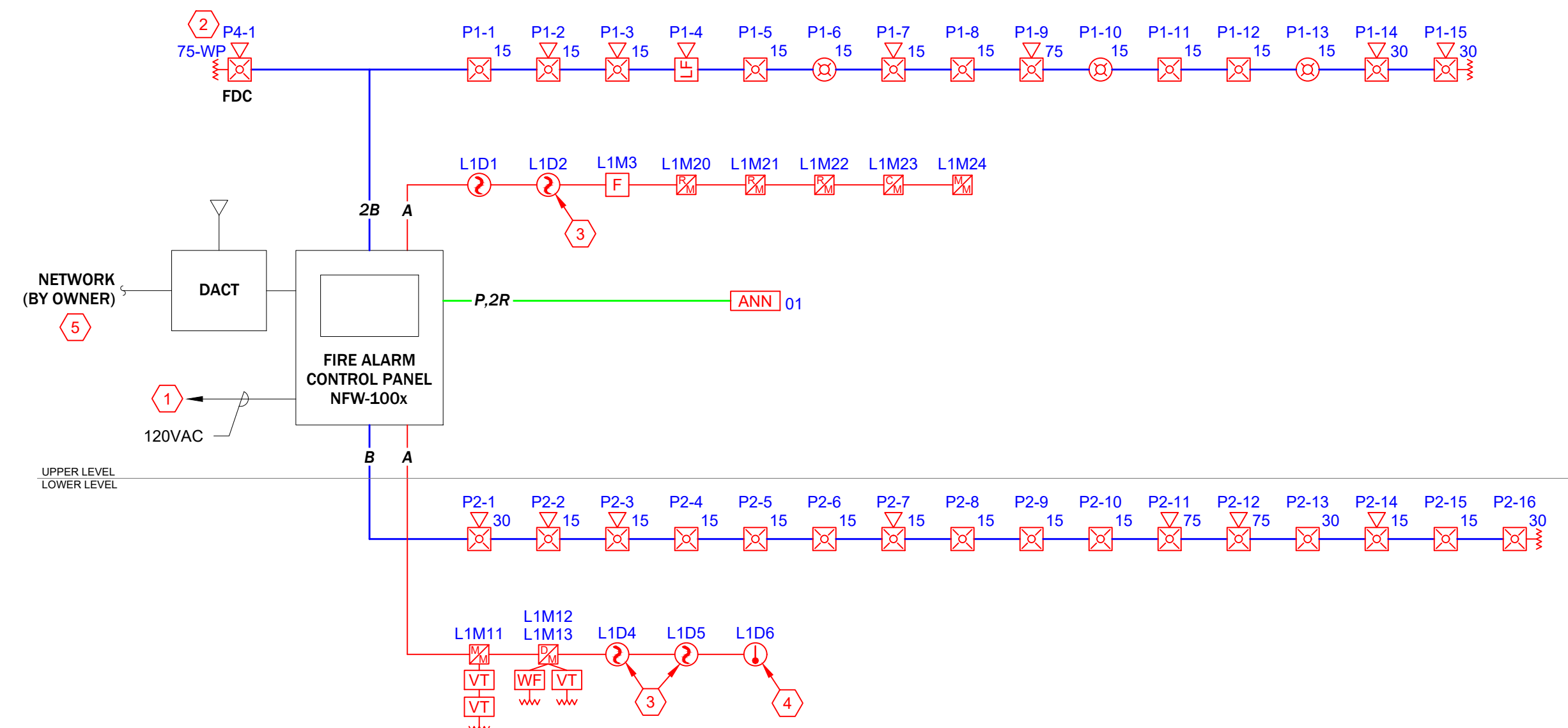


WIRING METHODS

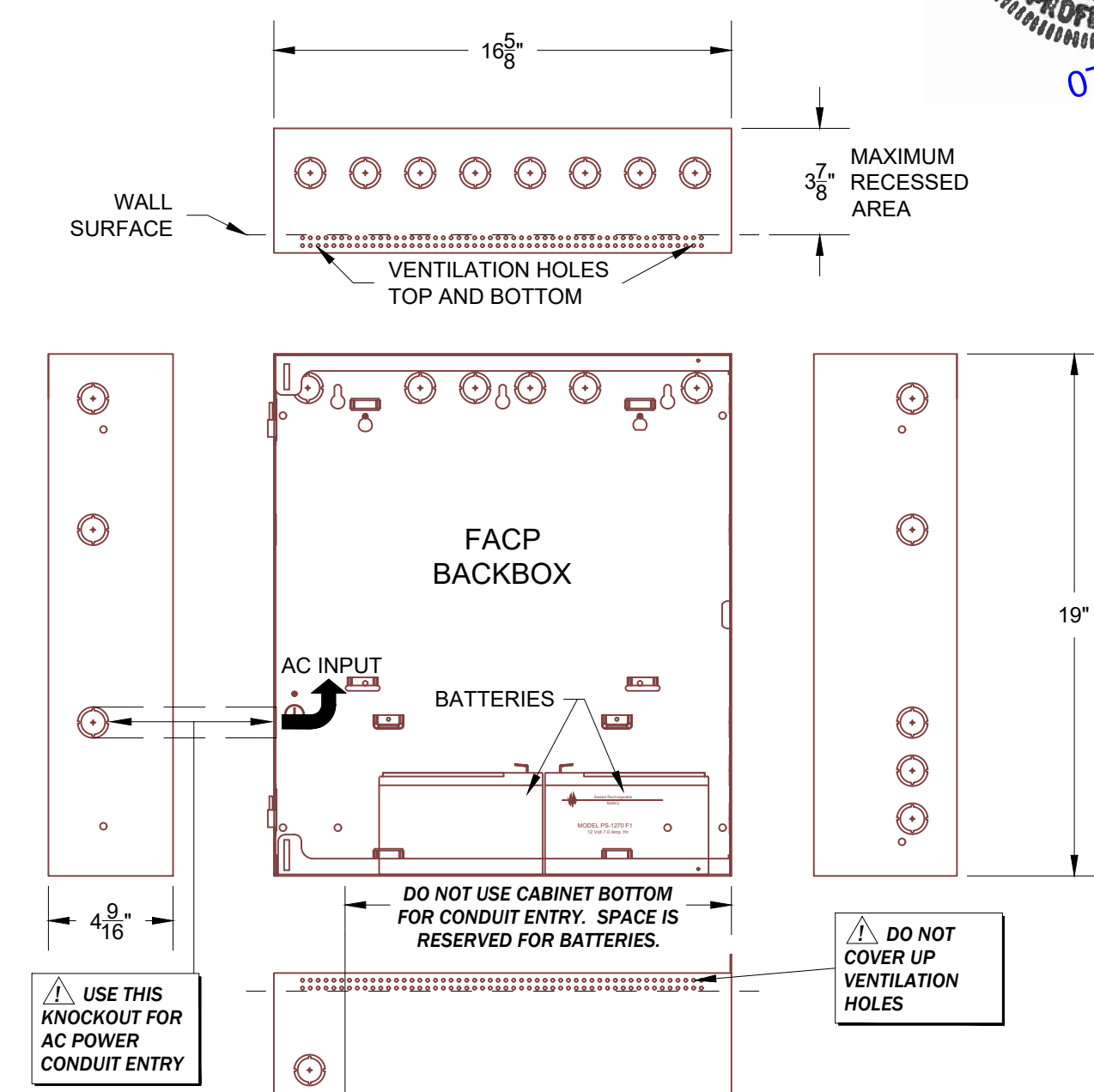
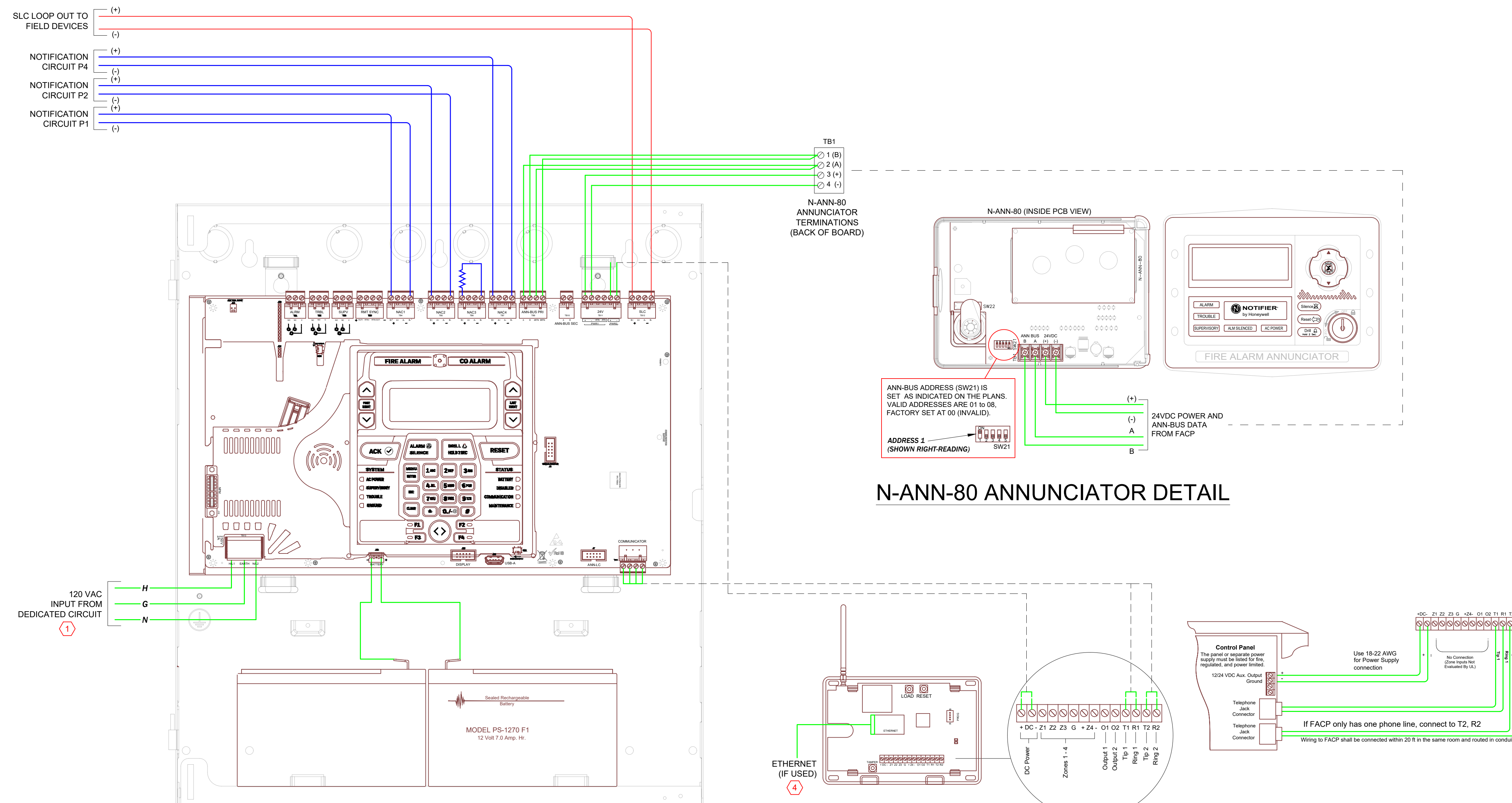
- NOTES:
- VISIBLE OR AUDIBLE/VISIBLE APPLIANCES SHALL BE MOUNTED SO THAT THE ENTIRE LENS IS NOT LESS THAN 80" A.F.F. OR GREATER THAN 96" A.F.F. WHERE LOW CEILING HEIGHTS PREVENT ABOVE, MOUNT AT 6" BELOW CEILING TO TOP OF LENS. FOR CORRIDORS 20' OR LESS WIDE, MOUNT VISUAL APPLIANCES NO MORE THAN 15' 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.



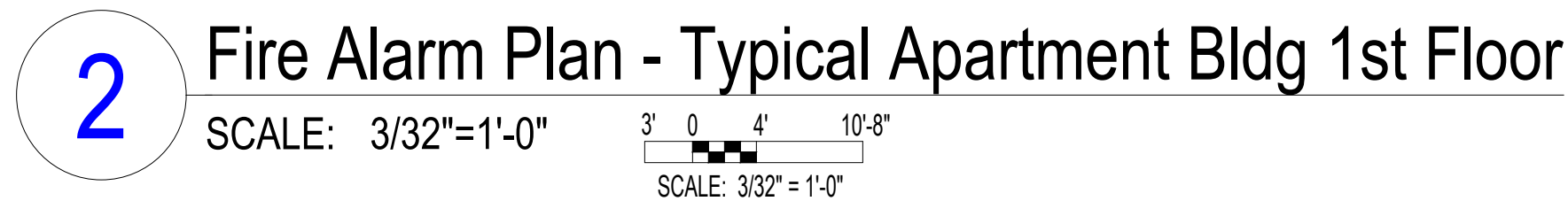
INSTALLATION HEIGHTS FOR
WALL MOUNTED DEVICES




























1 RISER DIAGRAM - CLUBHOUSE



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.	



LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN **MAJENTA COLOR** ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.

FIRE ALARM SYMBOLS LEGEND	
SYMBL	DESCRIPTION
	NOTIFIER NFS-320 FIRE ALARM PANEL MOUNT PANEL AS SHOWN AT 72" AFF TO TOP OF BOX BACK BOX: INCLUDED.
	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-x BACK BOX: SINGLE GANG
	NOTIFIER NBF-121X ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG 1.875" DEEP MIN
	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300+6 BASE, 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 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
	SYSTEM SENSOR CO1224TR CARBON MONOXIDE DETECTOR INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE 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 TIE 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 HWLLF LOW FREQ. HORN/STRB, WALL, WHT 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

FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, 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), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP

KEYED NOTES		DWG SHEET #A-201
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	NOT USED THIS SHEET	
5	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL AS REQUIRED BY NFPA 72 CHAPTER 29. PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.	
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.	
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0	

DEVICE NUMBERING DETAILS

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

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

NOTIFICATION APPLIANCES

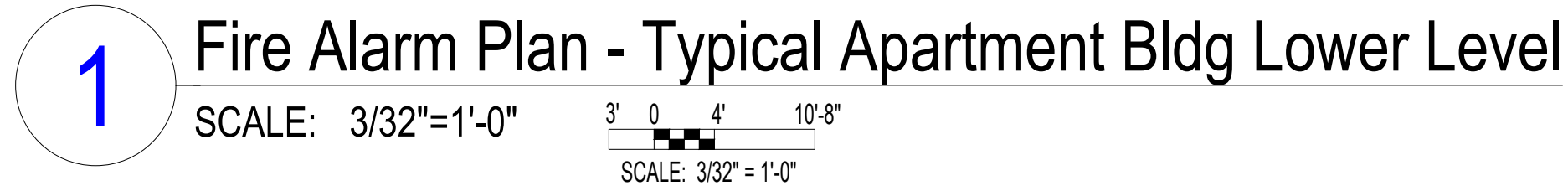
MODULES

DETECTORS

NETWORK NODE NUMBER
SLC or LOOP NUMBER

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

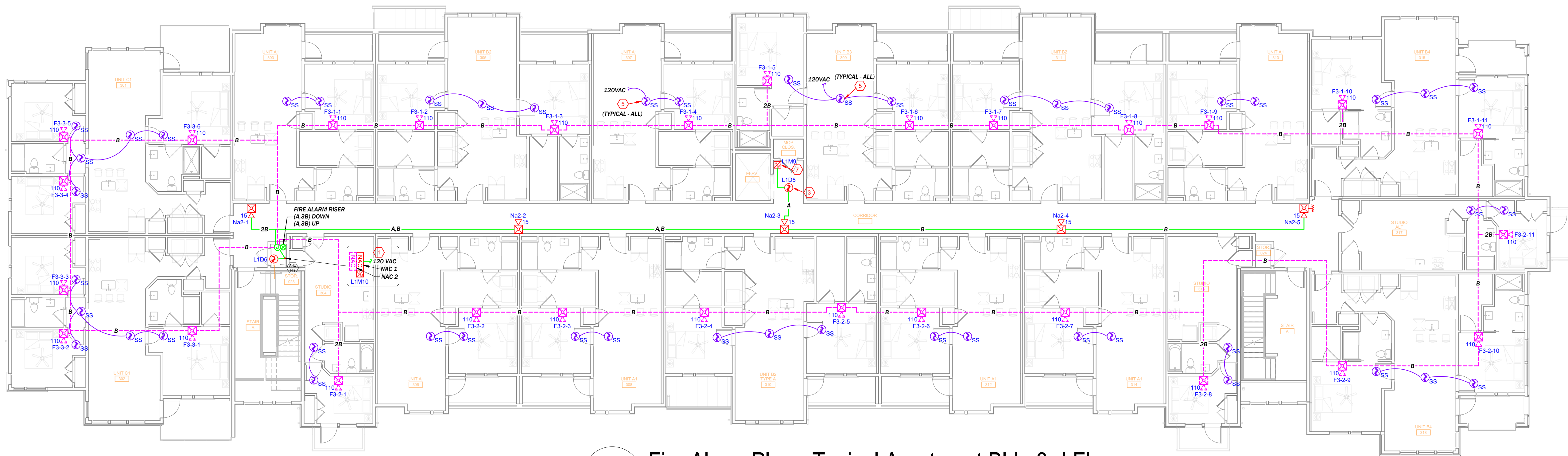
ADDRESSABLE DEVICES



AHU-H1	600 CFM
AHU-H2	600 CFM
AHU-H3	600 CFM
AHU-H4	600 CFM
AHU-H5	600 CFM
AHU-H6	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.





2 Fire Alarm Plan - Typical Apartment Bldg 3rd Floor
SCALE: 3/32"=1'-0"
3' 0' 4' 10'-8"
SCALE: 3/32"=1'-0"

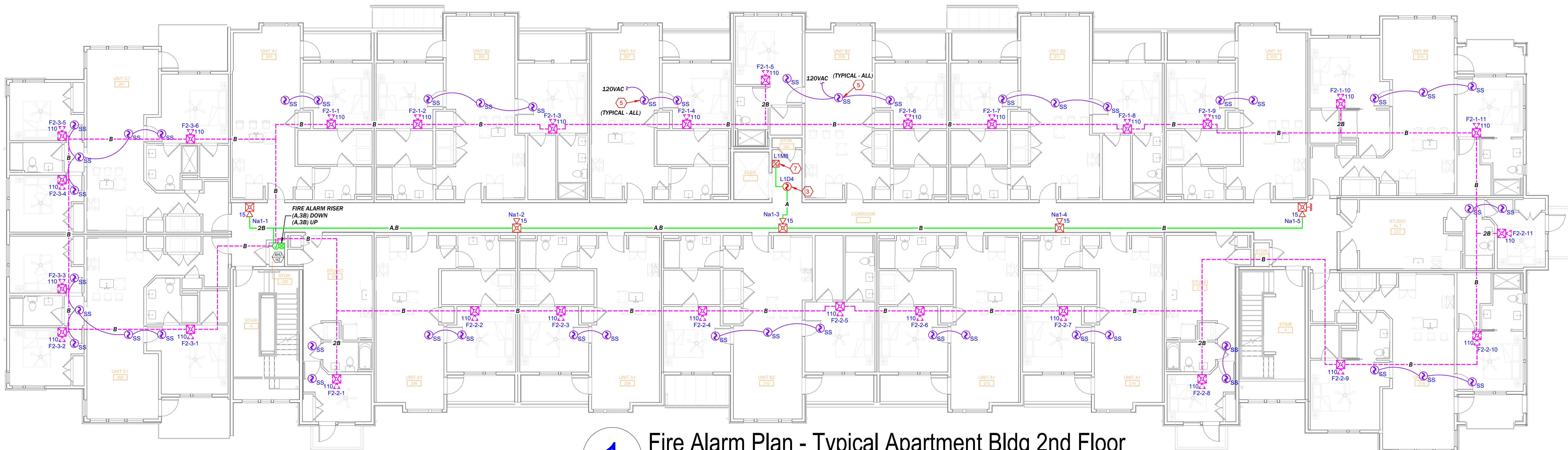
GENERAL NOTE - FUTURE CAPACITY
LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN **MAGENTA COLOR** ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.

FIRE ALARM SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
[FACP]	NOTIFIER NFS-320 FIRE ALARM PANEL MOUNT PANEL AS SHOWN AT 72" AFF TO TOP OF BOX BACK BOX: INCLUDED.
[ANN]	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-X BACK BOX: SINGLE GANG
[F]	NOTIFIER NBS-12LX ADDRESSABLE MANUAL PULL STATION SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT BACK BOX: SINGLE GANG 1.875" DEEP MIN
[SS]	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO) MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[SS]	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY BACK BOX:
[SS]	NOTIFIER FST-951 HEAT DETECTOR, 135F MOUNT ON B300-6 BASE, AS INDICATED BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[CO]	SYSTEM SENSOR CO1224TR CARBON MONOXIDE DETECTOR INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP
[MM]	NOTIFIER FMM-1 ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
[MM]	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE MOUNT AS SHOWN ON PLANS BACK BOX: 4" SQUARE x 2-1/8" DEEP
[MM]	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
[MM]	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE MOUNT WITHIN 3' OF CONTROLLED DEVICE BACK BOX: 4" SQUARE x 2-1/8" DEEP
[SS]	SYSTEM SENSOR SWLED STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[SS]	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.
[SS]	SYSTEM SENSOR P2WLED HORN/STROBE, WALL MOUNT, WHITE FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[SS]	SYSTEM SENSOR HWL-LF LOW FREQ. HORN/STRB, WALL, WHT FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[SS]	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

FIRE ALARM WIRE LEGEND	
TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, JACKETED CABLE FPLR
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), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE. FPLP

KEYED NOTES		DWG SHEET # FA-202
KEY #	NOTE TEXT	
1	120VAC DEDICATED AC POWER FOR FIRE ALARM SYSTEM, TO BE PROVIDED BY ELECTRICAL CONTRACTOR.	
2	NOT USED THIS SHEET	
3	DETECTOR PROGRAMMED FOR ELEVATOR CONTROL IN ACCORDANCE WITH I/O MATRIX ON SHEET FA-0.	
4	NOT USED THIS SHEET	
5	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL AS REQUIRED BY NFPA 72 CHAPTER 29. PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.	
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.	
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0	

DEVICE NUMBERING DETAILS	
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 N 30 30 DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
NOTIFICATION APPLIANCES	
[F] [F] [F] [F] [F] [SS] [SS] [SS] [SS] [SS] [CO] [CO] [CO] [CO] [CO]	NETWORK NODE NUMBER SLC or LOOP NUMBER DENOTES DEVICE TYPE "M"=MODULE, "D"=DETECTOR — DEVICE ADDRESS NUMBER (1-159 DET, 1-159 MOD) N111D01 ADDRESSABLE DEVICES



1 Fire Alarm Plan - Typical Apartment Bldg 2nd Floor
SCALE: 3/32"=1'-0"
3' 0' 4' 10'-8"
SCALE: 3/32"=1'-0"



MIDWEST
ALARM
SERVICES

9745 Widmer, Lenexa, KS 66215
(913) 677-3711 FAX (913) 677-3712

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

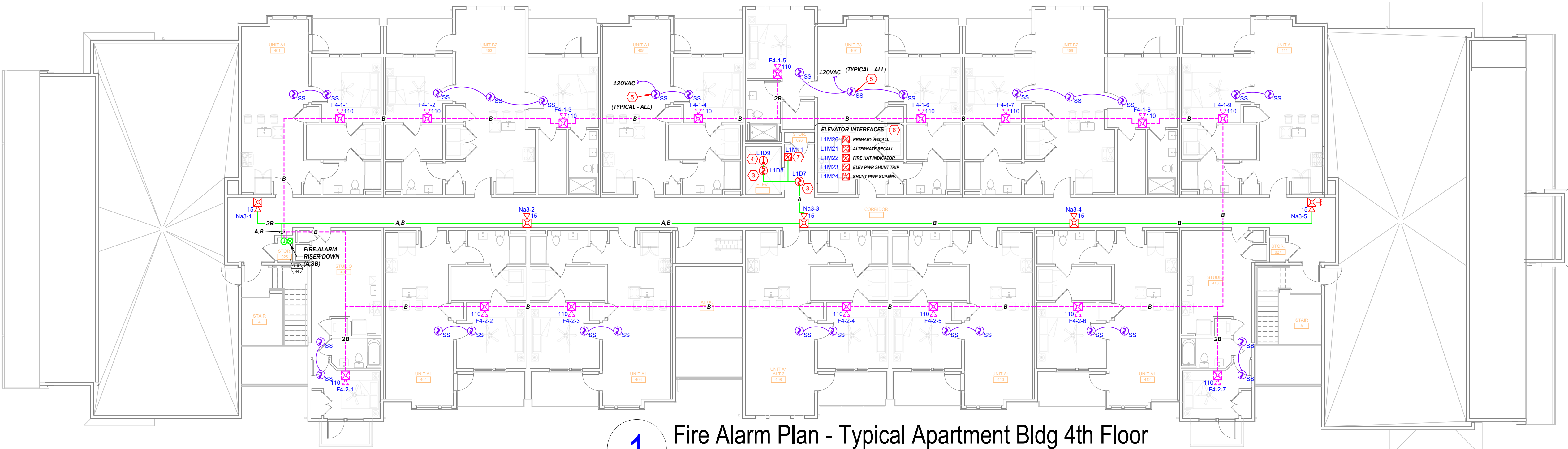
DRAWN BY: D. LANE
DESIGNED BY: PR
APPROVED BY:

DATE: 05.28.2024
DATE: 05.07.24
DATE:

PROJECT NUMBER:
3303 24050258

SHEET TITLE:
FIRE ALARM SYSTEM
Apartment Typ. Floor Plans
2nd & 3rd Floor

SHEET NUMBER:
FA-202
6 of 6



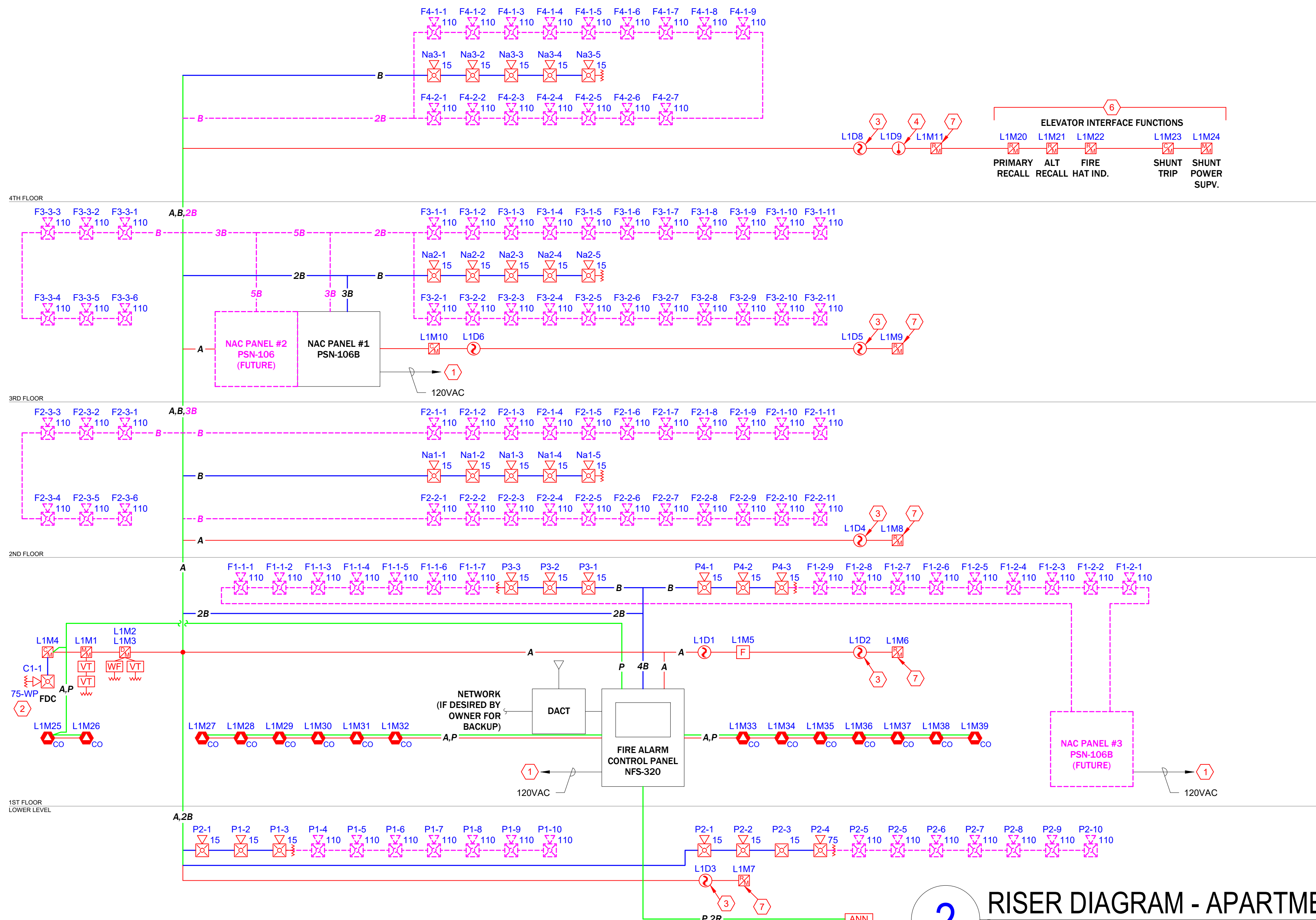
1 Fire Alarm Plan - Typical Apartment Bldg 4th Floor

SCALE: 3/32"=1'-0"

SCALE: 3/32"=1'-0"

GENERAL NOTE - FUTURE CAPACITY

LOW FREQUENCY NOTIFICATION DEVICES IN UNITS AND PATHWAYS SHOWN IN MAGENTA COLOR ARE FOR FUTURE EXPANSION IN SLEEPING AREAS AS REQUIRED BY ICC A117.1. ELECTRICAL BOX ROUGH-IN AND WIRING ARE TO BE INCLUDED IN THE INSTALLATION. CONNECT CIRCUITS THROUGH AT FUTURE LOCATIONS AND BLANK OFF BOX. NAC CALCULATIONS INCLUDE FUTURE DEVICES.



2 RISER DIAGRAM - APARTMENT BUILDINGS

SCALE: NONE

FIRE ALARM SYMBOLS LEGEND

SYMBOL	DESCRIPTION
[FACP]	NOTIFIER NFS-320 FIRE ALARM PANEL. MOUNT PANEL AS SHOWN AT 72" AFF TO TOP OF BOX. BACK BOX: INCLUDED.
[ANN]	NOTIFIER FDU-80 LCD ANNUNCIATOR, 80 CHAR. MOUNT AS SHOWN ON SHEET FA-X. BACK BOX: SINGLE GANG.
[F]	NOTIFIER NBG-12LX ADDRESSABLE MANUAL PULL STATION. SEE FA GENERAL NOTE 7 FOR MOUNTING HEIGHT. BACK BOX: SINGLE GANG 1.875" DEEP MIN.
[SS]	NOTIFIER FSP-951 SMOKE DETECTOR (PHOTO). MOUNT ON B300-6 BASE, AS INDICATED. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[SS]	SINGLE-STATION SMOKE ALARM PROVIDED BY OTHERS, SHOWN FOR REFERENCE ONLY. BACK BOX: INCLUDED.
[H]	NOTIFIER FST-951 HEAT DETECTOR, 135F. MOUNT ON B300-6 BASE, AS INDICATED. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[CO]	SYSTEM SENSOR CO1224TR CARBON MONOXIDE DETECTOR. INCLUDE FMM-101 FOR ADDRESSABLE INTERFACE. BACK BOX: 4" SQUARE OR 3.5" OCTAGONAL x 1-1/2" DEEP.
[M]	NOTIFIER FMM-1 ADDRESSABLE MONITOR MODULE. MOUNT AS SHOWN ON PLANS. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[M]	NOTIFIER FDM-1 DUAL ADDRESSABLE MONITOR MODULE. MOUNT AS SHOWN ON PLANS. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[M]	NOTIFIER FCM-1 ADDRESSABLE CONTROL MODULE. MOUNT WITHIN 3' OF CONTROLLED DEVICE. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[M]	NOTIFIER FRM-1 ADDRESSABLE RELAY MODULE. MOUNT WITHIN 3' OF CONTROLLED DEVICE. BACK BOX: 4" SQUARE x 2-1/8" DEEP.
[S]	SYSTEM SENSOR SWLED STROBE, WALL MOUNT, WHITE. FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	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.
[S]	SYSTEM SENSOR P2WLED HORN/STROBE, WALL MOUNT, WHITE. FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	SYSTEM SENSOR HWL-LF LOW FREQ. HORN/STROBE, WALL, WHT. FOR MOUNTING HEIGHT SEE FA GENERAL NOTE 9. BACK BOX: SINGLE GANG x 1.875" DEEP MIN.
[S]	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.

FIRE ALARM WIRE LEGEND

TAG	DESCRIPTION
A	SIGNALING LINE CIRCUIT, CLASS B (2C) 18AWG SOLID, TWISTED, JACKETED CABLE FPLR
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), CLASS A (2C) 18AWG SOLID, TWISTED, JACKETED CABLE, FPLP

KEYED NOTES

DWG SHEET # FA-203

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 SIAMSESE 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	120VAC SINGLE-STATION SMOKE DETECTORS SHALL BE INTERCONNECTED WITHIN UNITS FOR ALARM SIGNAL, AS REQUIRED BY NFPA 72 CHAPTER 29. PROVIDED AND INSTALLED BY OTHERS, SHOWN FOR REFERENCE ONLY.
6	COORDINATE LOCATION AND CONNECTION OF ELEVATOR PHASE 1 FIRE SERVICE INTERFACE DEVICES WITH ELEVATOR CONTRACTOR. COORDINATE ELEVATOR POWER SHUNT TRIP INTERFACES WITH ELECTRICAL CONTRACTOR.
7	CONTROL RELAY FOR SMOKE CURTAIN AS CALLED OUT ON CONTRACT DRAWINGS. PROGRAM TO OPERATE AS SHOWN IN I/O MATRIX ON SHEET FA-0.

DEVICE NUMBERING DETAILS

N = NEW (DEFAULT) E = EXIST (NO ACTION) ER = EXIST TO REUSE ED = EXIST TO DELETE	TYPE OF SIGNAL CIRCUIT 'N' = NAC REMOTE POWER SUPPLY 'P' = VOICE EVAC (SPEAKER) 'V' = PANEL NUMBER (IF ANY) CIRCUIT NUMBER IN PANEL
NO NOTATION = NEW	DEVICE NUMBER END OF LINE RESISTOR (LAST DEVICE ON CKT) CANDELA RATING
NOTIFICATION APPLIANCES	
[F] [M] [S] [H] [CO] [SS] [P2W] [P2R]	NETWORK NODE NUMBER SLC or LOOP NUMBER DENOTES DEVICE TYPE 'M'=MODULE, 'D'=DETECTOR DEVICE ADDRESS NUMBER (1-159 DET, 1-159 MOD)
ADDRESSABLE DEVICES	



MIDWEST
ALARM
SERVICES

9745 Widmer, Lenexa, KS 66215
(913) 677-3771, FAX (913) 677-5172

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: D. LANE
DESIGNED BY: PR
APPROVED BY:

DATE: 05.28.2024
DATE: 05.07.24
DATE:

PROJECT NUMBER:
3303 24050258

SHEET TITLE:
FIRE ALARM SYSTEM
Apartment Typ. Floor Plans
4th Floor

SHEET NUMBER:
FA-203
7 of 8

