

2902 ADELINE APARTMENTS

2902 ADELINE STREET

BERKELEY, CALIFORNIA 94703

FIRE ALARM SYSTEM

GENERAL NOTES

1- ALL WIRING SHALL BE IN ACCORDANCE WITH CALIFORNIA ELECTRICAL CODE (CEC) AND REGULATIONS. REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES AND REGULATIONS".

2- WIRING SHALL NOT BE LOOPED THROUGH DEVICES UPON TERMINATION, WIRE MUST BE CUT FOR IN AND OUT RUNS PRIOR TO DEVICE TERMINATION.

3- ALL CONDUITS SHALL BE A MINIMUM OF 3/4"; CONDUIT SIZES SHALL BE IN ACCORDANCE WITH C.E.C. CHAPTER 9 TABLES AND EXAMPLES ON CONDUIT FILLS.

4- ALL DEVICES IN THE ALARM SYSTEM SHALL BE COMPATIBLE AND INSTALLED TO THE MANUFACTURERS SPECIFICATIONS.

5-AUDIBLE NOTIFICATION IN SLEEPING AREAS SHALL HAVE A SOUND LEVEL OF AT LEAST 15 DB ABOVE AVERAGE AMBIENT SOUND LEVEL OR 5 DB ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION OF AT LEAST 60 SECONDS OR A SOUND LEVEL OF AT LEAST 75 DBA, WHICHEVER IS GREATER, MEASURED AT THE PILLOW LEVEL. [NFPA 72 §18.4.5.1]

6- PUBLIC AUDIBILITY NOTIFICATION SHALL HAVE A SOUND LEVEL OF AT LEAST 15 DB ABOVE THE AVERAGE AMBIENT SOUND LEVEL AND A DURATION OF MAXIMUM SOUND LEVEL HAVING A DURATION OF 60 SECONDS, WHICHEVER IS GREATER, MEASURED 5-FEET ABOVE THE FLOOR. [NFPA 72 §18.4.3.1]

7- ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72). REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES AND REGULATIONS".

8- SMOKE DETECTOR AND HEAT DETECTOR LOCATIONS ARE BASED ON SMOOTH CEILING WITH MAXIMUM HEIGHT OF 10 FEET UNLESS OTHERWISE NOTED.

9- STROBE LOCATIONS ARE BASED ON 10 FOOT CEILING HEIGHTS AND ARE INSTALLED IN ACCORDANCE WITH NATIONAL FIRE ALARM CODE (NFPA 72) UNLESS OTHERWISE NOTED. REFERENCE APPLICABLE EDITIONS UNDER "APPLICABLE CODES AND REGULATIONS".

10- WALL-MOUNTED STROBE APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES AND NOT GREATER THAN 96 INCHES ABOVE FINISHED FLOOR LEVEL.

11- OPERABLE PORTION OF MANUAL PULL STATIONS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR LEVEL.

12- FIRE ALARM SIGNAL SHALL MEET ANSI V3.41, AUDIBLE EMERGENCY EVACUATION SIGNAL (TEMPORAL PATTERN).

13- INITIATION DEVICE CIRCUITS ARE RATED POWER-LIMITED. MINIMUM RECOMMENDED WIRE SIZE IS LISTED.

14- CONTROL CIRCUITS ARE NON-POWER-LIMITED. MINIMUM RECOMMENDED WIRE SIZE TO BE DETERMINED BY CIRCUIT LOAD.

15- WHERE SHIELDED CABLE IS USED, THE SHIELD SHALL BE CONTINUOUS AND GROUNDED ONLY AT THE RESPECTIVE CONTROL PANEL.

16- REFER TO RESPECTIVE CATALOG CUT SHEETS FOR ELECTRICAL MOUNTING HARDWARE.

17- TAPPING OR PARALLEL BRANCHING OF ADDRESSABLE INITIATION DEVICE CIRCUITS IS PERMITTED ON CLASS B CIRCUITS ONLY. T-TAPPING IS PROHIBITED ON ANY OTHER CIRCUITS (I.E. NAC, IDC, PANEL NETWORK WIRING).

18- PHOTOELECTRIC DETECTORS SHALL NOT BE WITHIN 36" OF DIRECT AIR STREAM SUPPLY AIR OUTLETS.

20- UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE PERFORMED IN THE PRESENCE OF THE AHJ.

21- ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.

22- AUDIBILITY WILL BE DETERMINED BY THE FIELD FIRE MARSHAL.

23- INITIATION AND NOTIFICATION CIRCUITS SHALL BE CLEARLY IDENTIFIED AT ALL JUNCTION BOXES AND TERMINATIONS.

24- THE TELEPHONE NUMBER OF THE 24 HOUR MONITORING SERVICE SHALL BE PLACE ON THE DOOR OF THE PANEL OR NEXT TO THE PANEL ON THE WALL.

25- CIRCUIT BREAKER FOR THE FIRE ALARM PANEL SHALL BE RED IN COLOR AND HAVE A LOCK OUT ON IT. THE CIRCUIT BREAKER SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".

26- FIRE BELL SHALL BE ON IT'S OWN BREAKER.

27- ALL NOTIFICATION APPLIANCES INSTALLED WITHIN THIS PROJECT SHALL PROVIDE A DISTINCTIVE THREE-PULSE TEMPORAL PULSE FIRE ALARM SIGNAL IN ACCORDANCE WITH ANSI 53.41.

28- 48 HOUR ADVANCE NOTICE REQUIRED FOR ALL INSPECTIONS.

29- ACCESS KEYS FOR FACP AND PULL STATIONS SHALL BE PROVIDED AND LABELED FOR PLACEMENT IN THE KNOX BOX.

30- A 24 HOUR LISTED FIRE MONITORING SERVICES SHALL RECEIVE SIGNALS.

31- ROOM IN WHICH FACP IS LOCATED SHALL BE LABEL ACCORDING TO LOCAL FD POLICY.

32- CALL FOR FINAL FIRE ALARM TEST AND INSPECTION AT LEAST 24 HOURS IN ADVANCE. APPROVED PLANS MUST BE ON-SITE. THE FIRE ALARM SYSTEM SHALL NOT REQUIRE INSPECTION MUST BE ACCESSIBLE. THIS MAY MEAN MOVING A LIFT ON SITE TO INSPECT/TEST WORK, AS REQUIRED.

34- AN NFPA 72 RECORD OF COMPLETION SHALL BE COMPLETED AND PROVIDED TO THE FIRE INSPECTOR AT TIME OF FINAL ACCEPTANCE INSPECTION/TESTING.

35- ALL FIRE ALARM SYSTEMS SHALL BE PRE-TESTED PRIOR TO SERVICE. THE FIRE INSPECTOR SHALL BE PROVIDED "FIRE ALARM PRE-TEST VERIFICATION" FORM TO BE COMPLETED AND SUBMITTED TO THE FIRE INSPECTOR AT THE TIME OF FINAL ACCEPTANCE INSPECTION/TESTING.

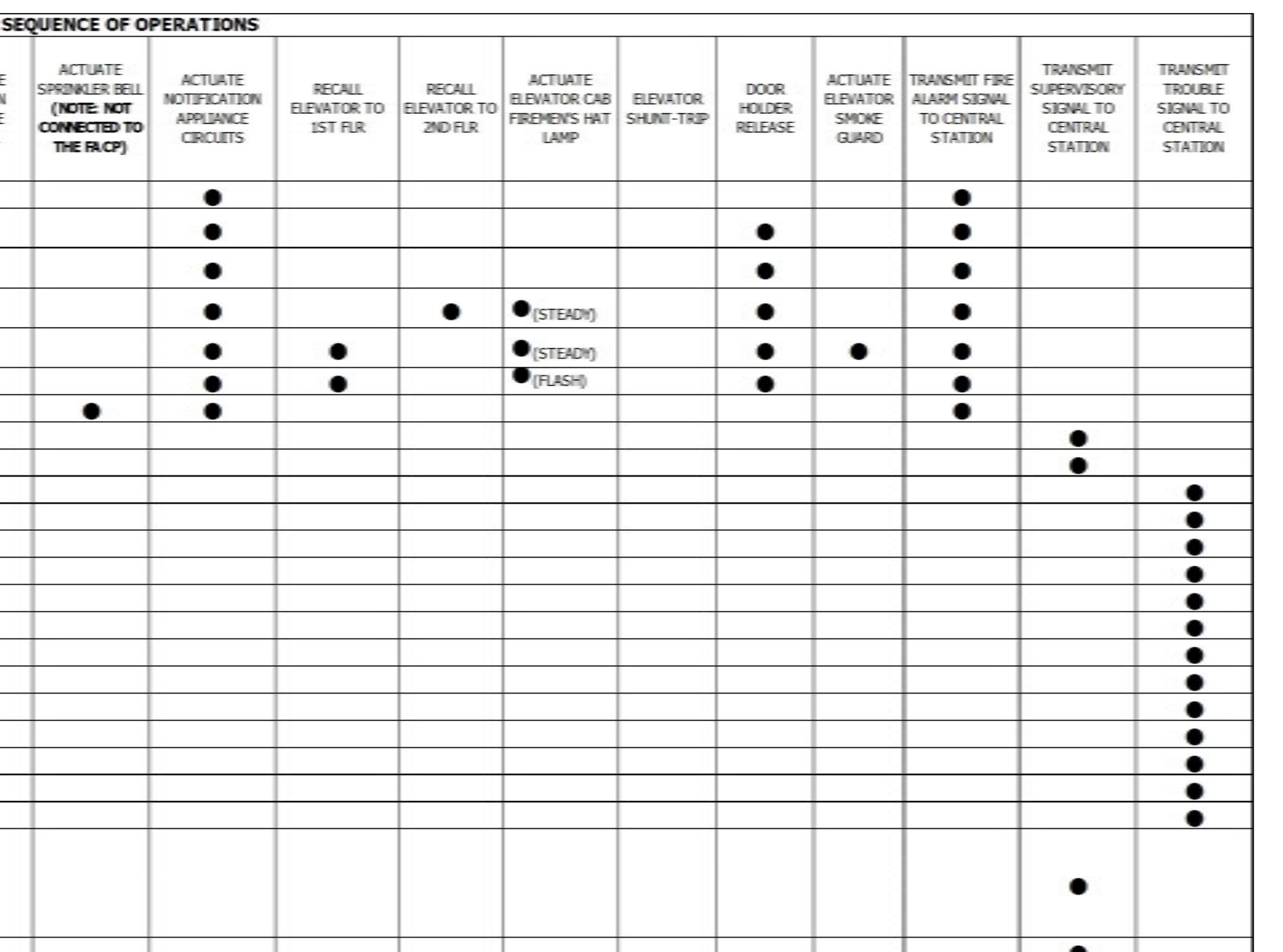
36- PER CEC 709.30 - FIRE ALARM CIRCUITS SHALL BE IDENTIFIED AT THE TERMINAL AND JUNCTION LOCATIONS IN A MANNER THAT HELPS TO PREVENT UNINTENTIONAL SIGNALS ON THE FIRE ALARM SYSTEM CIRCUITS DURING TESTING AND SERVICING OF OTHER SYSTEMS.

DRAWING SHEET INDEX		
SHEET	SHEET DESCRIPTION	SHEET CONTENTS
FA-0.0	TITLE SHEET	SEQ OF OPS, NOTES, CODE ANALYSIS, CODES & REGS, SYMBOL LEGEND & LIST OF MATERIAL, SCOPE OF WORK, ELEVATION DETAIL
FA-1.0	1ST FLOOR PLAN	
FA-2.0	2ND FLOOR PLAN	
FA-3.0	3RD FLOOR PLAN	
FA-4.0	4TH FLOOR PLAN	
FA-5.0	5TH FLOOR PLAN	
FA-6.0	6TH FLOOR PLAN	
FA-7.0	ROOF PLAN	
FA-8.0	SYSTEM RISER DIAGRAM & FACP DEVICE ADDRESSES	
FA-9.0	BATTERY & VOLTAGE DROP CALCULATIONS - 1	
FA-10.0	BATTERY & VOLTAGE DROP CALCULATIONS - 2	
FA-11.0	FUTURE HEARING IMPAIR UNIT CONVERSION	
FA-12.0	POINT TO POINT WIRING DETAIL	
	FIRE STOP PENETRATION DETAILS	

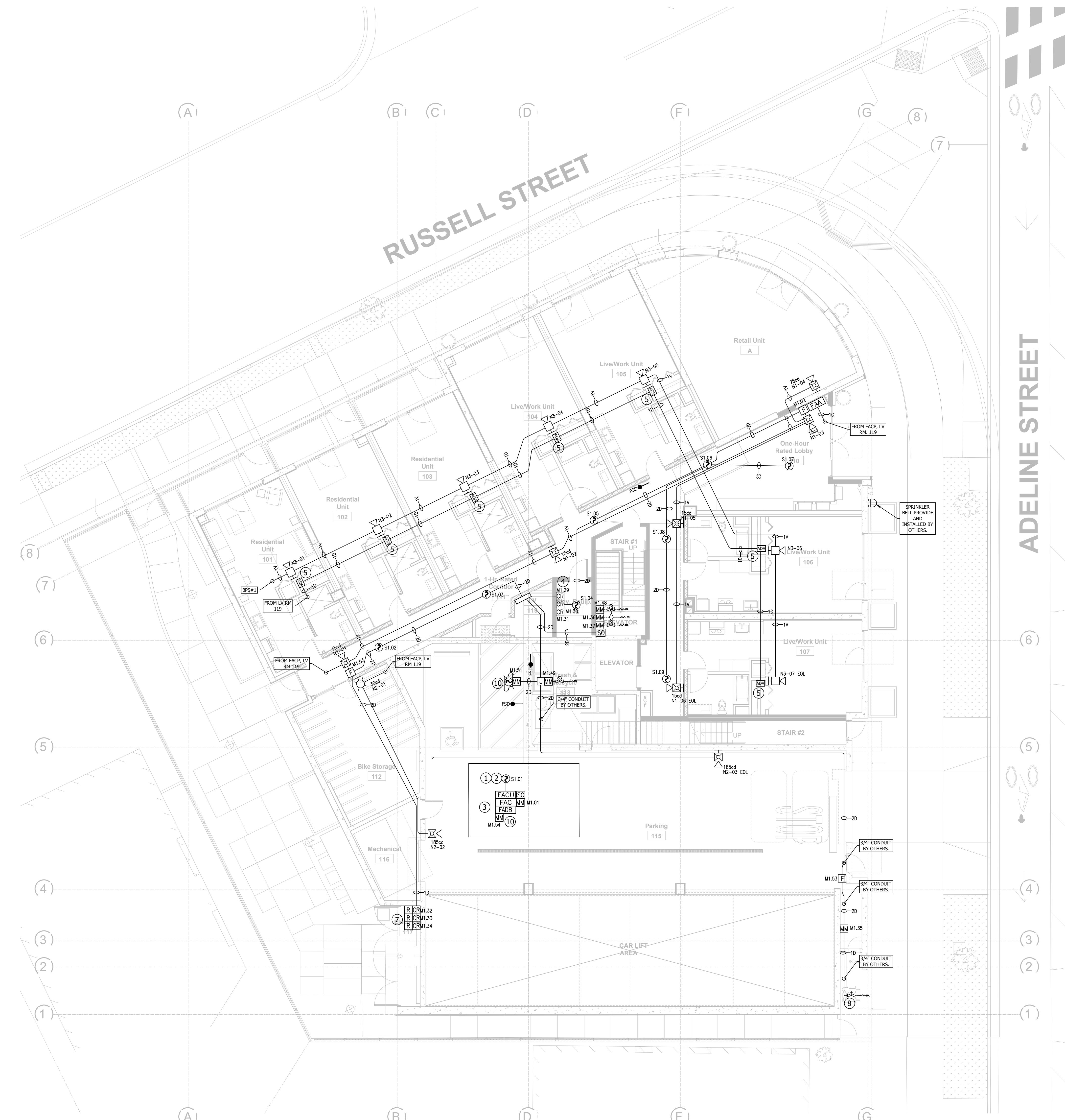
SCOPE OF WORK		
FIRE ALARM SYSTEM FOR (6) STORY RESIDENTIAL BUILDING. INSTALLATION OF THIS SYSTEM PER THESE DRAWINGS. UPON COMPLETION OF THE INSTALLATION A COMPLETE PRETEST SHALL BE PERFORM TO VERIFY FUNCTIONALITY OF THE SYSTEM. IF FUNCTIONALITY IS SATISFACTORY, THEN THE PROPER DOCUMENTATION SHALL SUBMITTED TO THE AHJ PRIOR TO SCHEDULING A FINAL INSPECTION.		

CENTRAL MONITORING STATION		
SIERRA FIRE ALARM, INC	4505 YANKEE HILL COURT	ROCKLIN, CA 95677
PHONE #:	516-630-1472	UL# 535471

PROJECT INFORMATION		
BUILDING (NEW OR EXISTING):	NEW - (1) RESIDENTIAL BUILDING	
OCCUPANCY CLASS:	R2, M, S2, B	
CONSTRUCTION TYPE:	TYPE I-A - GROUND LEVEL, TYPE III-A LEVELS 2-6	
NUMBER OF LEVELS / STORIES:	6 STORY (6'-3"-3'-4")	
BUILDING TOTAL SQUARE FOOTAGE:	54,470 S.F.	
TYPE OF SYSTEM:	NEW AUTOMATIC FIRE ALARM SYSTEM	
FIRE ALARM SYSTEM PATHWAY SURVIVABILITY LEVEL:	LEVEL 0	
	2016 NFPA 72	
BUILDING IS FULLY SPRINKLERED:	YES	
MECHANICAL UPGRADE:	YES	
EMERGENCY GENERATOR:	NO	
FIRE PUMP:	NO	
RPDA (SLOW/FLOW DEVICE):	YES	



SYMBOL	QTY	DESCRIPTION
		MANUF.
		MODEL
		CSFM#
		BACKBOX
[FAC]	1	ADDRESSABLE FIRE ALARM CONTROL UNIT
	2	12VDC, 7AH RECHARGEABLE LEAD-ACID BATTERIES
		POWERSONIC
		PS-1270
		N/A
[FAC]	1	CELLULAR COMMUNICATOR PANEL
	1	12VDC, 7AH RECHARGEABLE LEAD-ACID BATTERIES
	2	HONEYWELL
		HPP-PS10
		7315-1637-0505
[BPS]	1	NAC BOOSTER POWER SUPPLY, 6AMP
	2	HONEYWELL
		HPP-PS6
		7315-1637-0505
[FAC]	6	12VDC, 7AH RECHARGEABLE LEAD-ACID BATTERIES
		POWERSONIC
		PS-1270
		N/A
[FAD]	1	FIRE DOCUMENT BOX ACE 11
		SPACE AGE
		SSU00672
		7300-053-0110
[FAA]	1	REMOTE LCD ANNUNCIATOR
		FIRE-LITE
		AN-80
		7165-0075-0500
[F]	12	ADDRESSABLE MANUAL PULL STATION
		FIRE-LITE
		BG-12LX
		7150-0075-0184
[F] WP	1	MANUAL PULL STATION, WEATHER PROOF
		FIRE-LITE
		WB
		7150-0075-0184
[F]	1	FIRE DOCUMENT BOX ACE 11
		SPACE AGE
		SSU00672
		7300-053-0110
[FAA]	1	REMOTE LCD ANNUNCIATOR
		FIRE-LITE
		AN-80
		7165-0075-0500
[F]	12	ADDRESSABLE MANUAL PULL STATION
		FIRE-LITE
		BG-12LX



1ST FLOOR PLAN
NORTH

0 1' 2' 3' 4' 5' 6' 7' 8' 9' 10'

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

FA-1.0

DRAWINGS NOT PLOTTED 30"X42" ARE NOT TO SCALE

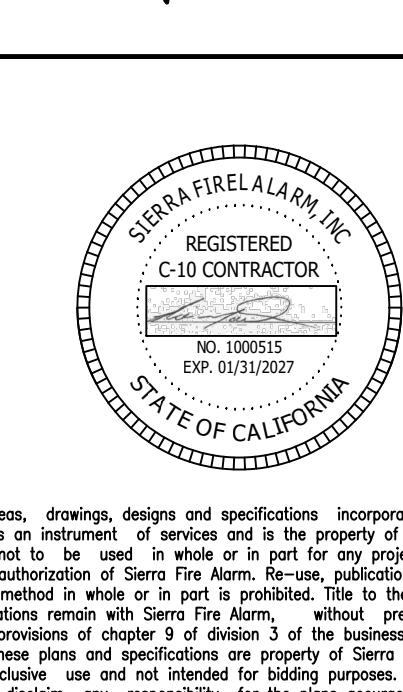
KEY NOTES	
①	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP AND BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
②	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
③	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72.
④	ELEVATOR RECALL / FRENCHES HAT RELAY, MOTOR, PLATE, SHIFTER LOCATION INSTALL NO MORE THAN 3' 0" AWAY FROM INTERFACE DEVICE.
⑤	PRE-WIRE J-BOX FOR FUTURE HEARING IMPAIR UNIT CONVERSION
⑥	ERICS MONITOR MODULE, FIELD VERIFY LOCATION.
⑦	FIRE SMOKE DAMPER ACTIVATION RELAY, FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
⑧	ELEVATOR SMOKE CURTAIN RELEASE RELAY, FIELD VERIFY WITH SMOKE CURTAIN CONTRACTOR.
⑨	NO SPRINKLER AT TOP OF ELEVATOR HOISTWAY, FIELD COORDINATE LOCATION WITH ELEVATOR CONTRACTOR.
⑩	DUCT SMOKE DETECTORS PROVIDED BY AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS. RESET OF DUCT SMOKE DETECTORS AND SUPPLY FANS SHUTDOWN BY MECHANICAL CONTRACTOR.
⑪	2 WAY COMM. SYSTEM TROUBLE MONITOR MODULE, FIELD VERIFY LOCATION.

GENERAL NOTES

1. SMOKE / CO ALARMS IN UNITS INSTALLED BY ELECTRICAL PLAN FOR LOCATIONS PER ELECTRICAL PLANS, LISTED AND CSM APPROVED SMOKE / CARBON MONOXIDE DETECTORS SHALL BE LOCATED IMMEDIATELY OUTSIDE EACH SLEEPING AREA.

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL UNIT
[FAA]	REMOTE ANNUNCIATOR
[FAC]	CELLULAR COMMUNICATOR
[BPS]	BOOSTER POWER SUPPLY
[FADB]	FIRE ALARM DOCUMENT CABINET
[?]	SMOKE DETECTOR
[!]	HEAT DETECTOR
[F]	ADDRESSABLE PULL STATION
[MM]	ADDRESSABLE INPUT MODULE
[CR]	ADDRESSABLE RELAY MODULE
[DM]	ADDRESSABLE DUAL INPUT MODULE
[R]	10 AMP RELAY
[ISO]	FAULT ISOLATION MODULE
[H]	HORN WALL, LOW FREQ
[Hx]	HORN-STROBE WALL
[S]	STROBE WALL
[WP]	HORN-STROBE WALL, WP
[S]	SPRINKLER FLOW SWITCH
[S]	SPRINKLER TAMPER SWITCH
[S]	SPRINKLER BACKFLOW SWITCH
[PSD]	FIRE SMOKE DAMPER
[J]	ADA J-BOX

SIERRA FIRE ALARM INC.
4505 YANKEE HILL COURT
ROCKLIN, CA 95677
C-10 LICENSE #. 1000515



2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703

WIRE LEGEND			
WIRE TAG	PURPOSE	TYPE	PATHWAY CLASS
D	ADDRESSABLE CIRCUIT	18/2 FPLR	A
V	NAC CIRCUIT	14/2 FPLR	B
C	ANNUNCIATOR CKT	16/4 FPLR	B
T	BPS TRIGGER	14/2 FPLR	B
P	DOOR HOLDER CKT	14/2 FPLR	D
U	UNDERGROUND CIRCUIT	18/2 UNDERGROUND RATED IN CONDUIT**	B
X	SLC UNDERGROUND CKT	14/2 UNDERGROUND RATED IN CONDUIT**	B

** ALL FIRE ALARM CONDUIT SHALL BE A MINIMUM OF 3/4" U.O.N., CONDUIT SHALL BE NO MORE THAN 40% MAX FILL.

SMOKE DAMPER ACTUATION	
M-1	WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE LISTED FOR RELEASE SERVICE. THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE INSTALLED ON THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE THE SMOKE DAMPER IS LOCATED IN THE DUCT. IN CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.
M-2	WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASE SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
M-3	WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASE SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTALLY OF THE DAMPER.
M-4	WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.
M-5	WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

REFER TO 716.3.3.2 (CBC 2022)

REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPON:	RUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT HURON, MI 48064-9922 Carlos Olivares (619) 610-8637, NICET #84003 carlos.olivares@ruegoeng.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:			

1ST FLOOR PLAN

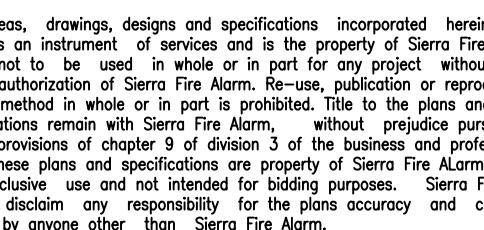
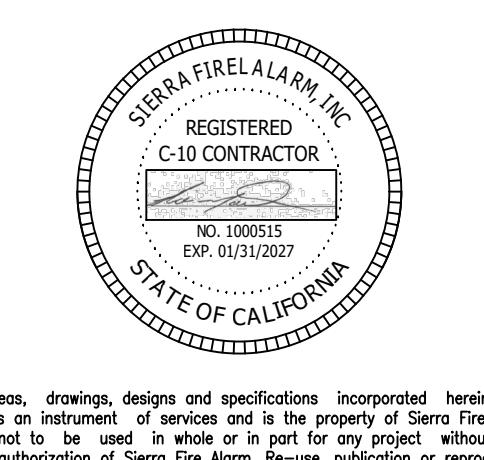
2902 ADELINE APARTMENTS

FIRE ALARM SYSTEM

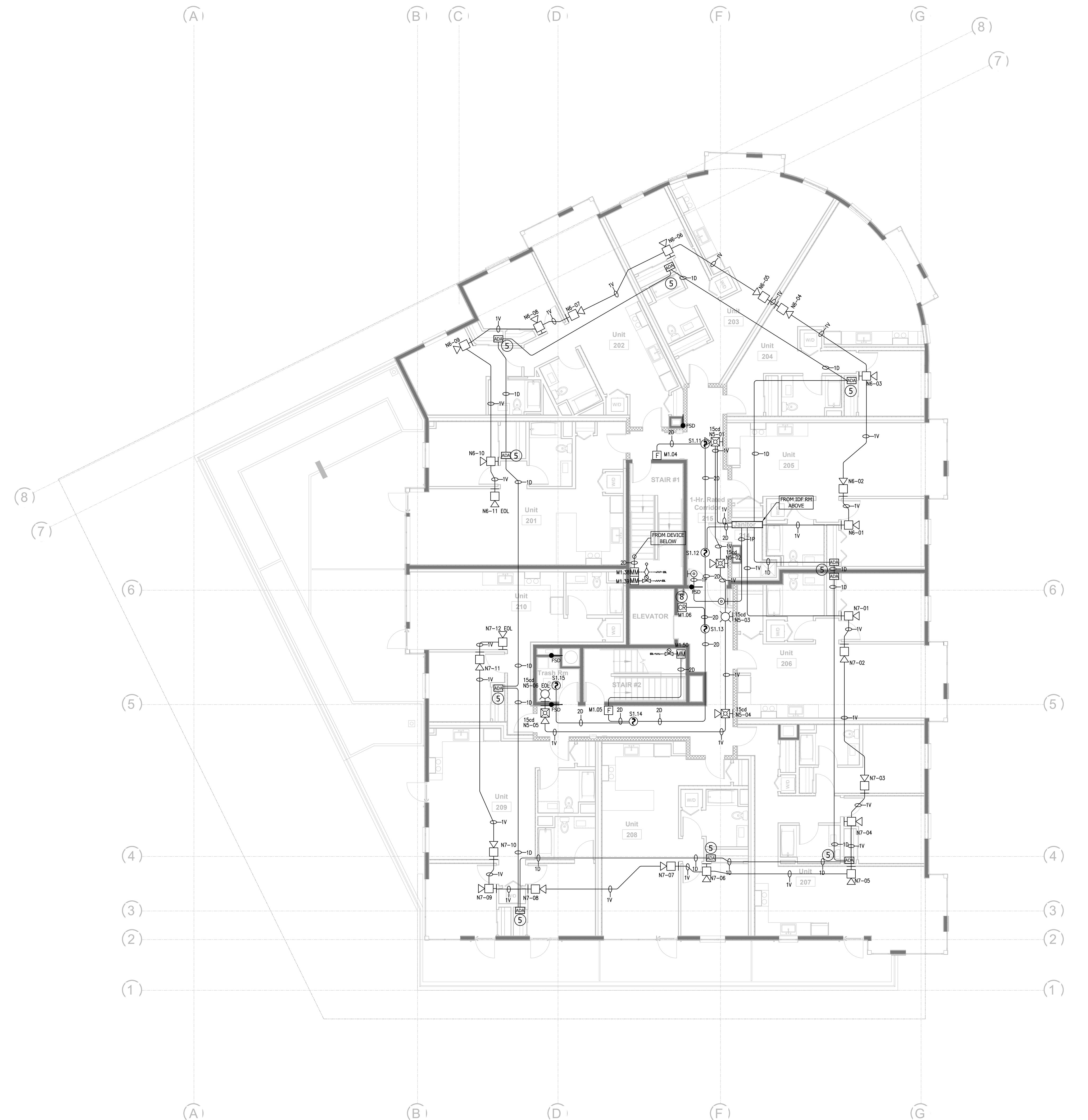
SCALE: 1/8" = 1'-0"

SHEET NO.

FA-1.0



2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703



2ND FLOOR PLAN
NORTH

0 2 4 8 16
SCALE: 1/8" = 1'-0"
SHEET NO. FA-2.0

KEY NOTES	
①	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP AND BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
②	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
③	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72.
④	ELEVATOR RECALL AND TRENCHING KIT RELAY MODULES, FIELD VERIFY LOCATION. INSTALL NO MORE THAN 5' AWAY FROM INTERFACE DEVICE.
⑤	PRE-WIRE J-BOX FOR FUTURE HEARING IMPAIR UNIT CONVERSION
⑥	ERRCS MONITOR MODULE, FIELD VERIFY LOCATION.
⑦	FIRE SMOKE DAMPER ACTIVATION RELAY, FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
⑧	ELEVATOR SMOKE CURTAIN RELEASE RELAY, FIELD VERIFY WITH SMOKE CURTAIN CONTRACTOR.
⑨	NO SPRINKLER AT TOP OF ELEVATOR HOISTWAY, FIELD COORDINATE LOCATION WITH ELEVATOR CONTRACTOR.
⑩	DUCT SMOKE DETECTORS PROVIDED BY AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS. RESET OF DUCT SMOKE DETECTORS AND SUPPLY FANS SHUTDOWN BY MECHANICAL CONTRACTOR.
⑪	2 WAY COMM. SYSTEM TROUBLE MONITOR MODULE, FIELD VERIFY LOCATION.

GENERAL NOTES

1. SMOKE / CO ALARMS IN UNITS INSTALLED BY ELECTRICAL PLAN FOR LOCATIONS. PER ELECTRICAL PLANS, LISTED AND CSM APPROVED SMOKE / CARBON MONOXIDE DETECTORS SHALL BE LOCATED IMMEDIATELY OUTSIDE EACH SLEEPING AREA.

DEVICE LEGEND

SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL UNIT
[FAA]	REMOTE ANNUNCIATOR
[FAC]	CELLULAR COMMUNICATOR
[BPS]	BOOSTER POWER SUPPLY
[FADB]	FIRE ALARM DOCUMENT CABINET
[?]	SMOKE DETECTOR
[?]	HEAT DETECTOR
[F]	ADDRESSABLE PULL STATION
[MM]	ADDRESSABLE INPUT MODULE
[CR]	ADDRESSABLE RELAY MODULE
[DM]	ADDRESSABLE DUAL INPUT MODULE
[R]	10 AMP RELAY
[ISO]	FAULT ISOLATION MODULE
[H]	HORN WALL, LOW FREQ
[H]	HORN-STROBE WALL
[H]	STROBE WALL
[WP]	HORN-STROBE WALL, WP
[SFS]	SPRINKLER FLOW SWITCH
[STTS]	SPRINKLER TAMPER SWITCH
[SBS]	SPRINKLER BACKFLOW SWITCH
[FSD]	FIRE SMOKE DAMPER
[J-BOX]	ADA J-BOX

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WIRE LEGEND

WIRE TAG	PURPOSE	TYPE	PATHWAY CLASS
D	ADDRESSABLE CIRCUIT	18/2 FPLR	A
V	NAC CIRCUIT	14/2 FPLR	B
C	ANNUNCIATOR CKT	16/4 FPLR	B
T	BPS TRIGGER	14/2 FPLR	B
P	DOOR HOLDER CKT	14/2 FPLR	D
U	UNDERGROUND CIRCUIT	18/2 UNDERGROUND RATED IN CONDUIT**	B
X	SLC UNDERGROUND CKT	14/2 UNDERGROUND RATED IN CONDUIT**	B

** ALL FIRE ALARM CONDUIT SHALL BE A MINIMUM OF 3/4" U.O., CONDUIT SHALL BE NO MORE THAN 40% MAX FILL.

SMOKE DAMPER ACTUATION

WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE LISTED FOR ACTUATING THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE THE SMOKE DAMPER IS LOCATED. CONTROL SYSTEM DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.

(M-1)

WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.

(M-2)

WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED.

(M-3)

WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

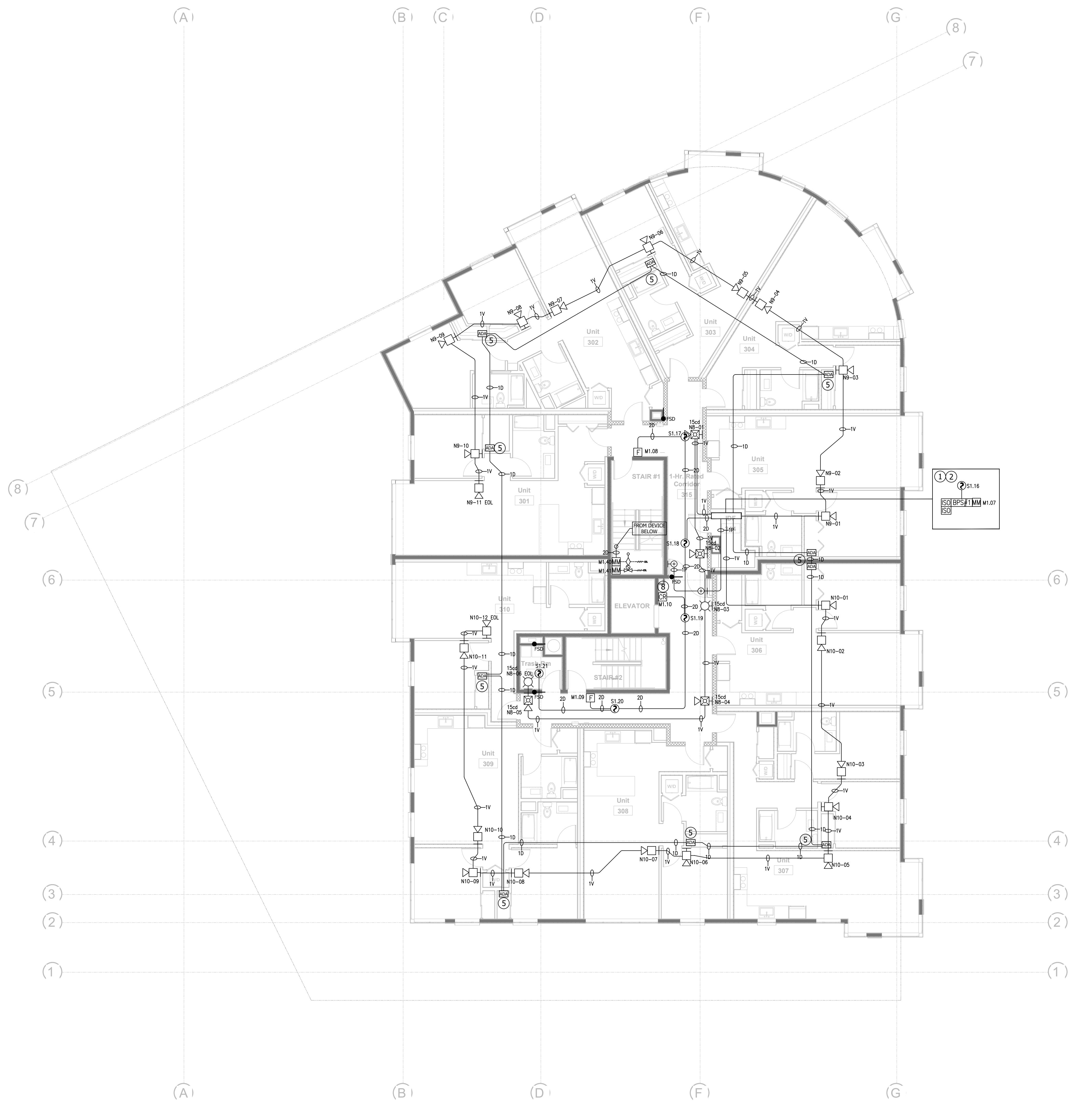
(M-4)

WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

(M-5)

REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPONDER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT HURON, MI 48064-9922 Carlos Olivares (619) 610-8637, NICE III #8403 carlos.olivares@fugogeng.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:	2ND FLOOR PLAN		

2902 ADELINE APARTMENTS
FIRE ALARM SYSTEM
SCALE: 1/8" = 1'-0"
SHEET NO. FA-2.0



<u>KEY NOTES</u>	
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2	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS .
3	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72.
4	ELEVATOR RECALL AND FIREMEN'S HAT RELAY MODULES. FIELD VERIFY LOCATION. INSTALL NO MORE THAN 3'-0" AWAY FROM INTERFACE DEVICE.
5	PRE-WIRE J-BOX FOR FUTURE HEARING IMPAIR UNIT CONVERSION
6	ERRCS MONITOR MODULE. FIELD VERIFY LOCATION.
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11	2 WAY COMM. SYSTEM TROUBLE MONITOR MODULE. FIELD VERIFY LOCATION.

ERAL NOTES

SMOKE / CO ALARMS IN UNITS INSTALLED BY
ELECTRICAL CONTRACTOR. REFERENCE
ELECTRICAL PLAN FOR LOCATIONS. PER ELECTRICAL
PLANS, LISTED AND CSMF APPROVED SMOKE /
CARBON MONOXIDE DETECTORS SHALL BE LOCATED
IMMEDIATELY OUTSIDE EACH SLEEPING AREA.

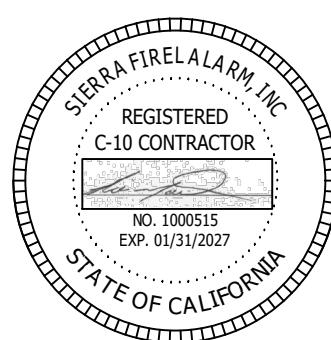
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL UNIT
[FAA]	REMOTE ANNUNCIATOR
[FAC]	CELLULAR COMMUNICATOR
[BPS]	BOOSTER POWER SUPPLY
[FADB]	FIRE ALARM DOCUMENT CABINET
(?)	SMOKE DETECTOR
(H)	HEAT DETECTOR
[F]	ADDRESSABLE PULL STATION
[MM]	ADDRESSABLE INPUT MODULE
[CR]	ADDRESSABLE RELAY MODULE
[DM]	ADDRESSABLE DUAL INPUT MODULE
[R]	10 AMP RELAY
[ISO]	FAULT ISOLATION MODULE
H[]K	HORN WALL, LOW FREQ
H[]OK	HORN-STROBE WALL
[]OK	STROBE WALL
WP H[]K	HORN-STROBE WALL, WP
○---	SPRINKLER FLOW SWITCH
---○---	SPRINKLER TAMPER SWITCH
---+---	SPRINKLER BACKFLOW SWITCH
FSD []	FIRE SMOKE DAMPER
[ADA]	ADA J- BOX

WIRE LEGEND			
WIRE TAG	PURPOSE	TYPE	PATHWAY CLASS
D	ADDRESSABLE CIRCUIT	18/2 FPLR	A
V	NAC CIRCUIT	14/2 FPLR	B
C	ANNUNCIATOR CKT	16/4 FPLR	B
T	BPS TRIGGER	14/2 FPLR	B
P	DOOR HOLDER CKT	14/2 FPLR	D
U	UNDERGROUND CIRCUIT	18/2 UNDERGROUND RATED IN CONDUIT**	B
X	SLC UNDERGROUND CKT	14/2 UNDERGROUND RATED IN CONDUIT**	B

SMOKE DAMPER ACTUATION	
(M-1)	WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED IN THE DUCT WITHIN 5' OF THE DAMPER WITH NO AIR OUTLETS OR INLETS BETWEEN THE DETECTOR AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.
(M-2)	WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.
(M-3)	WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED WITHIN 5' HORIZONTIALLY OF THE DAMPER.
(M-4)	WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.
(M-5)	WHERE A TOTAL-COVERAGE SMOKE-DETECTION SYSTEM IS PROVIDED WITHIN AREAS SERVED BY A HEATING, VENTILATION AND AIR-CONDITIONING (HVAC) SYSTEM, SMOKE DAMPERS SHALL BE PERMITTED TO BE CONTROLLED BY THE SMOKE DETECTION SYSTEM.

IRRA FIRE ALARM INC.
4505 YANKEE HILL COURT
ROCKLIN, CA 95677
OFFICE: 916.630.1472
C-10 LICENSE #: 1000515



STAMP:	 <p>The stamp is circular with a decorative border. The text "SIERRA FIRE ALARM, INC." is at the top, "REGISTERED" is in the center, and "C-10 CONTRACTOR" is below it. A small rectangular box contains a stylized logo. Below the logo, the text "NO. 1000515" and "EXP. 01/31/2027" are printed. The bottom arc of the stamp contains the text "STATE OF CALIFORNIA".</p>	
<p>The ideas, drawings, designs and specifications incorporated herein serve as an instrument of services and is the property of Sierra Fire Alarm and is not to be used in whole or in part for any project without the written authorization of Sierra Fire Alarm. Re-use, publication or reproduction by any method in whole or in part is prohibited. Title to the plans and specifications remain with Sierra Fire Alarm, without prejudice pursuant to the provisions of chapter 9 of division 3 of the business and profession code. These plans and specifications are property of Sierra Fire Alarm for their exclusive use and not intended for bidding purposes. Sierra Fire Alarm, disclaim any responsibility for the plans accuracy and content if used by anyone other than Sierra Fire Alarm.</p>		

2902 ADELINE APARTMENTS

REV.	DATE	DESCRIPTION	
 1	01-19-2026	CITY OF BERKELEY CORRECTIONS	
 2			
 3			
 4			
DESIGNER:	FUEGO ENGINEERING & DESIGN P.O. BOX 880922 PORT SAINT LUCIE, FL 34988 Carlos Oliveras (619) 610-8637, NICET III #84003 carlos.oliveras@fuegoeng.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	

3RD FLOOR PLAN

2902 ADELINE APARTMENTS

1/8" = 1'-0"

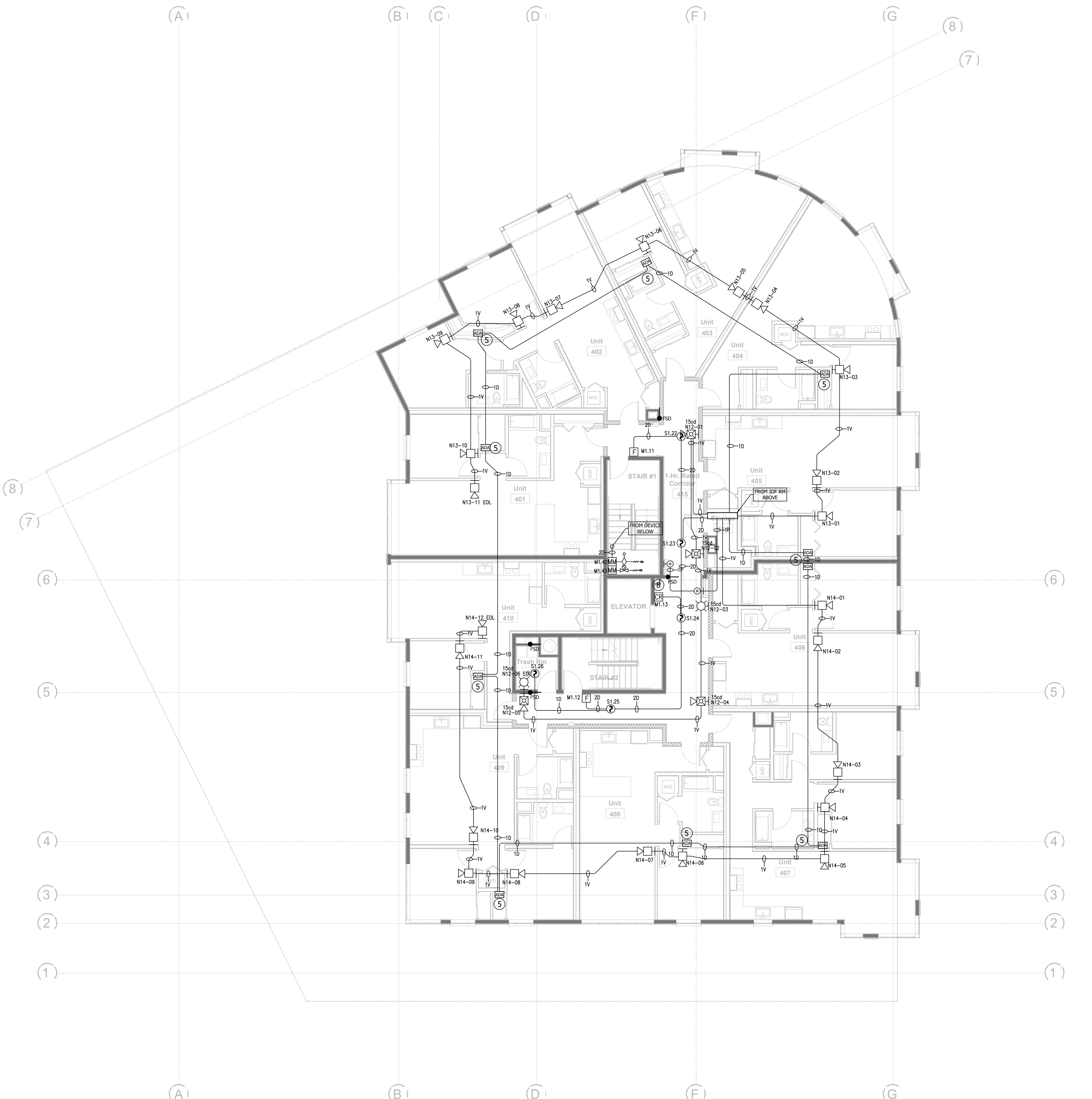
0.
EA 30

11. *What is the primary purpose of the following statement?*

The diagram shows the 3rd Floor Plan. A compass rose indicates the North direction. The title "3RD FLOOR PLAN" is centered above a horizontal scale bar. The scale bar is marked at 0, 2', 4', 8', and 16'. Below the scale bar, the text "SCALE: 1/8\" data-bbox="111 111 886 350" data-label="Text"> $= 1'-0"$



2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703



KEY NOTES	
①	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP AND BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
②	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
③	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72.
④	ELEVATOR RECALL AND FIREMANS NOT RELAY MODULES. IF NOT IN FACP LOCATION, INSTALL NO MORE THAN 5'-0" AWAY FROM INTERFACE DEVICE.
⑤	PRE-WIRE J-BOX FOR FUTURE HEARING IMPAIR UNIT CONVERSION
⑥	ERICS MONITOR MODULE. FIELD VERIFY LOCATION.
⑦	FIRE SMOKE DAMPER ACTIVATION RELAY. FIELD VERIFY LOCATION WITH ELECTRIC CONTRACTOR.
⑧	ELEVATOR SMOKE CURTAIN RELEASE RELAY. FIELD VERIFY WITH SMOKE CURTAIN CONTRACTOR.
⑨	NO SPRINKLER AT TOP OF ELEVATOR HOISTWAY. FIELD COORDINATE LOCATION WITH ELEVATOR CONTRACTOR.
⑩	DUCT SMOKE DETECTORS PROVIDED BY AND INSTALLED BY MECHANICAL CONTRACTOR. FIRE ALARM SYSTEM TO MONITOR DUCT SMOKE DETECTORS. RESET OF DUCT SMOKE DETECTORS AND SUPPLY FANS SHUTDOWN BY MECHANICAL CONTRACTOR.
⑪	2 WAY COMM. SYSTEM TROUBLE MONITOR MODULE. FIELD VERIFY LOCATION.

GENERAL NOTES
1. SMOKE / CO ALARMS IN UNITS INSTALLED BY ELECTRICAL PLAN FOR LOCATIONS. PER ELECTRICAL PLANS, LISTED AND CSM APPROVED SMOKE / CARBON MONOXIDE DETECTORS SHALL BE LOCATED IMMEDIATELY OUTSIDE EACH SLEEPING AREA.

DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL UNIT
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[F]	ADDRESSABLE PULL STATION
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[H-L]	HORN WALL, LOW FREQ
[H-S]	HORN-STROBE WALL
[S]	STROBE WALL
[WP]	HORN-STROBE WALL, WP
○	SPRINKLER FLOW SWITCH
△	SPRINKLER TAMPER SWITCH
—△—	SPRINKLER BACKFLOW SWITCH
PSD	FIRE SMOKE DAMPER
[J]	ADA J-BOX

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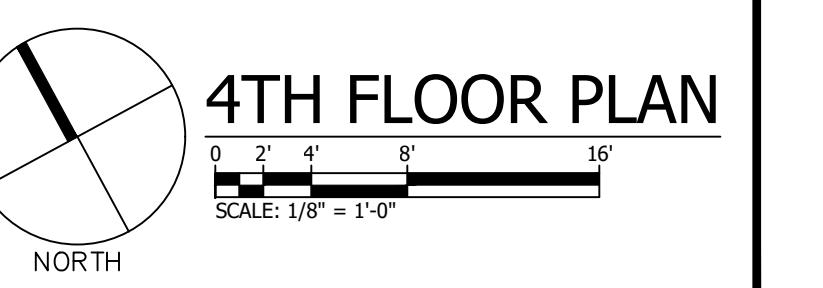
WIRE LEGEND			
WIRE TAG	PURPOSE	TYPE	PATHWAY CLASS
D	ADDRESSABLE CIRCUIT	18/2 FPLR	A
V	NAC CIRCUIT	14/2 FPLR	B
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T	BPS TRIGGER	14/2 FPLR	B
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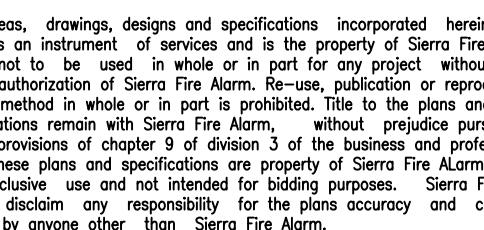
** ALL FIRE ALARM CONDUIT SHALL BE A MINIMUM OF 3/4" U.O.N., CONDUIT SHALL BE NO MORE THAN 40% MAX FILL.

SMOKE DAMPER ACTUATION			
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M-1			
WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.			
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WHERE A SMOKE DAMPER IS INSTALLED IN AN AIR TRANSFER OPENING IN A WALL, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE AIR TRANSFER OPENING.			
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WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.			
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REFER TO 716.3.3.2 (CBC 2022)			

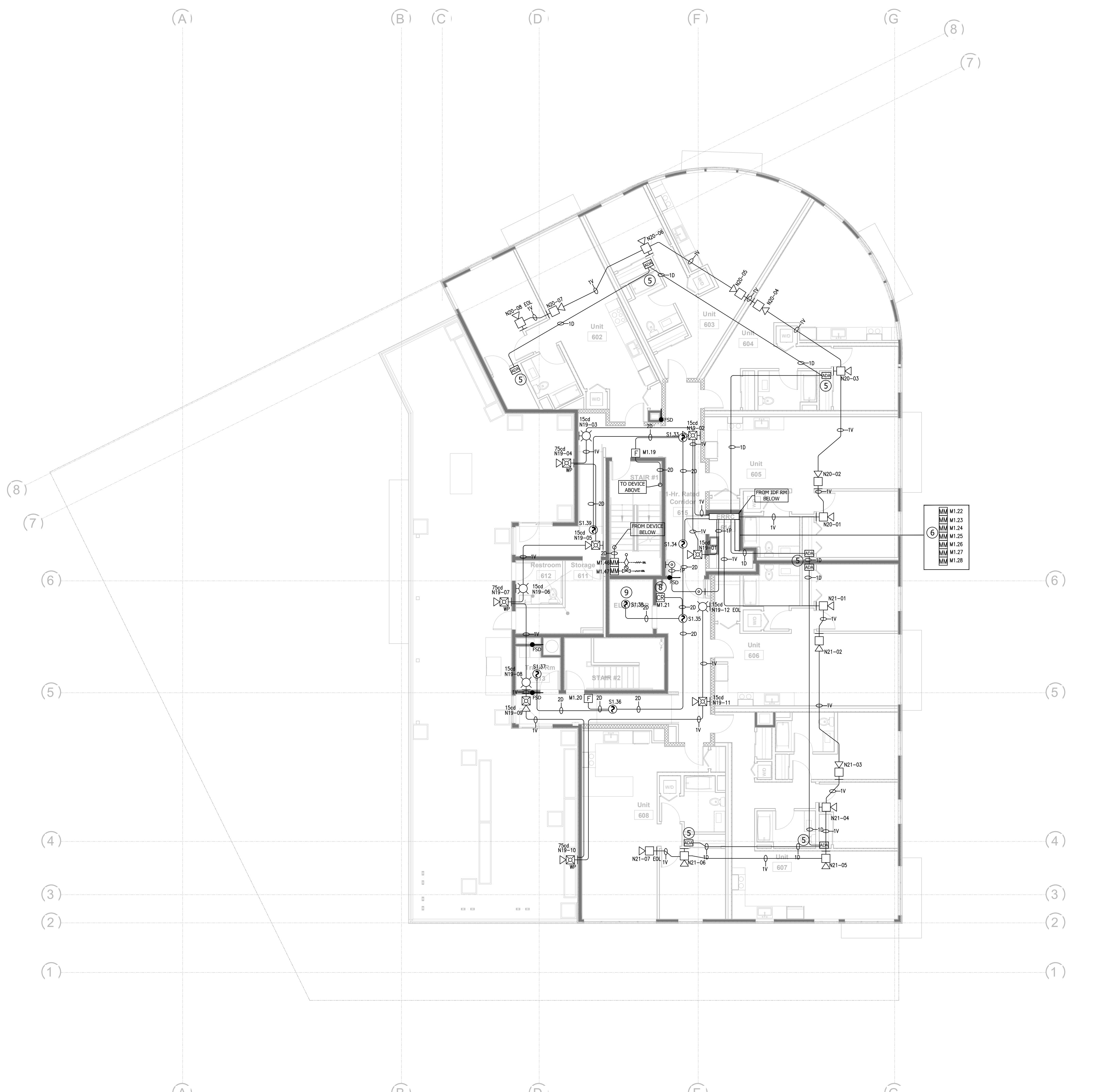
REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPONDER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT ARTHUR, TX 77699-9922 Carlos Olvera: (619) 610-8637, NICE III #8403 carlos.olvera@fugoe.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:	4TH FLOOR PLAN		

2902 ADELINE APARTMENTS
FIRE ALARM SYSTEM
SCALE: 1/8" = 1'-0"
SHEET NO. FA-4.0





2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703



KEY NOTES	
①	120 VAC, 20 AMP DEDICATED CIRCUIT TO FACP AND BOOSTER POWER SUPPLIES PROVIDED BY OTHERS. BREAKER SHALL BE RED IN COLOR AND LOCKED OUT IN THE "ON" POSITION.
②	INSTALL SMOKE DETECTOR NO MORE THAN 5 FEET FROM FIRE CONTROL / BOOSTER POWER SUPPLY PANELS.
③	INSTALL SYSTEMS RECORD CABINET ADJACENT TO FACP PER NFPA 72.
④	ELEVATOR RECALL AND TRENCHING KIT RELAY MODULES, FIELD VERIFY LOCATION. INSTALL NO MORE THAN 5' AWAY FROM INTERFACE DEVICE.
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SYMBOL	DESCRIPTION
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WIRE LEGEND

WIRE TAG	PURPOSE	TYPE	PATHWAY CLASS
D	ADDRESSABLE CIRCUIT	18/2 FPLR	A
V	NAC CIRCUIT	14/2 FPLR	B
C	ANNUNCIATOR CKT	16/4 FPLR	B
T	BPS TRIGGER	14/2 FPLR	B
P	DOOR HOLDER CKT	14/2 FPLR	D
U	UNDERGROUND CIRCUIT	18/2 UNDERGROUND RATED IN CONDUIT**	B
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** ALL FIRE ALARM CONDUIT SHALL BE A MINIMUM OF 3/4" U.O.N., CONDUIT SHALL BE NO MORE THAN 40% MAX FILL.

SMOKE DAMPER ACTUATION

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M-2 WHERE A SMOKE DAMPER IS INSTALLED ABOVE SMOKE BARRIER DOORS IN A SMOKE BARRIER, A SPOT-TYPE DETECTOR LISTED FOR RELEASING SERVICE SHALL BE INSTALLED ON EITHER SIDE OF THE SMOKE BARRIER DOOR OPENING.

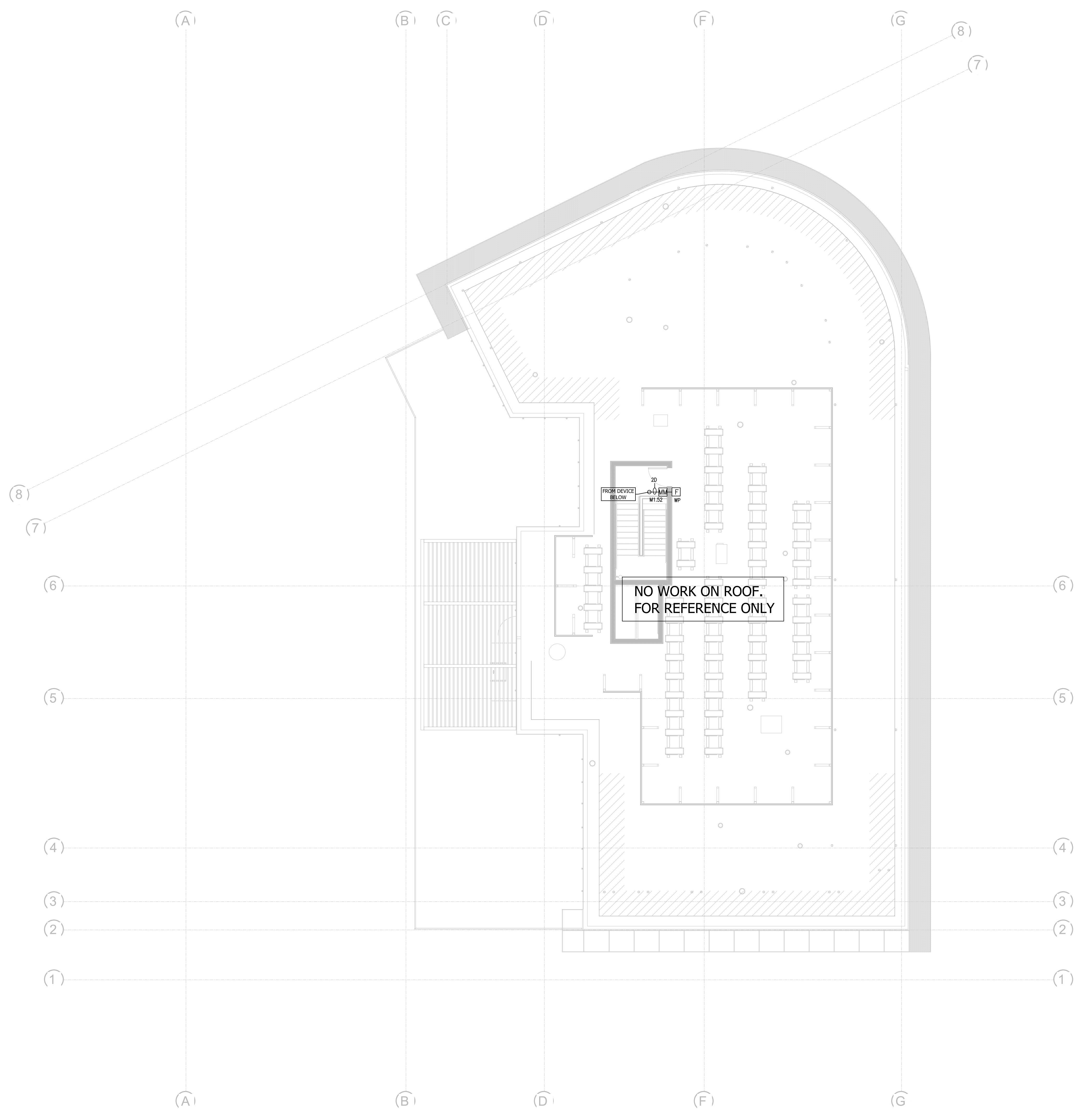
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M-4 WHERE A SMOKE DAMPER IS INSTALLED IN A CORRIDOR WALL OR CEILING, THE DAMPER SHALL BE PERMITTED TO BE CONTROLLED BY A SMOKE DETECTION SYSTEM INSTALLED IN THE CORRIDOR.

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REFER TO 716.3.3.2 (CBC 2022)

REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPONDER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT COQUITLAM, BC V3B 5K6 Carlos Olivares (604) 469-5465, NICEC III #8403 carlos.olivares@fugogp.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:	6TH FLOOR PLAN		



ROOF PLAN
0 2' 4' 8' 16'
SCALE: 1/8" = 1'-0"
NORTH

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(M-5)			
REF ID: 716.3.3.2 (CBC 2022)			

SIERRA FIRE ALARM INC.
4505 YANKEE HILL COURT
ROCKLIN, CA 95677
C-10 LICENSE #. 1000515



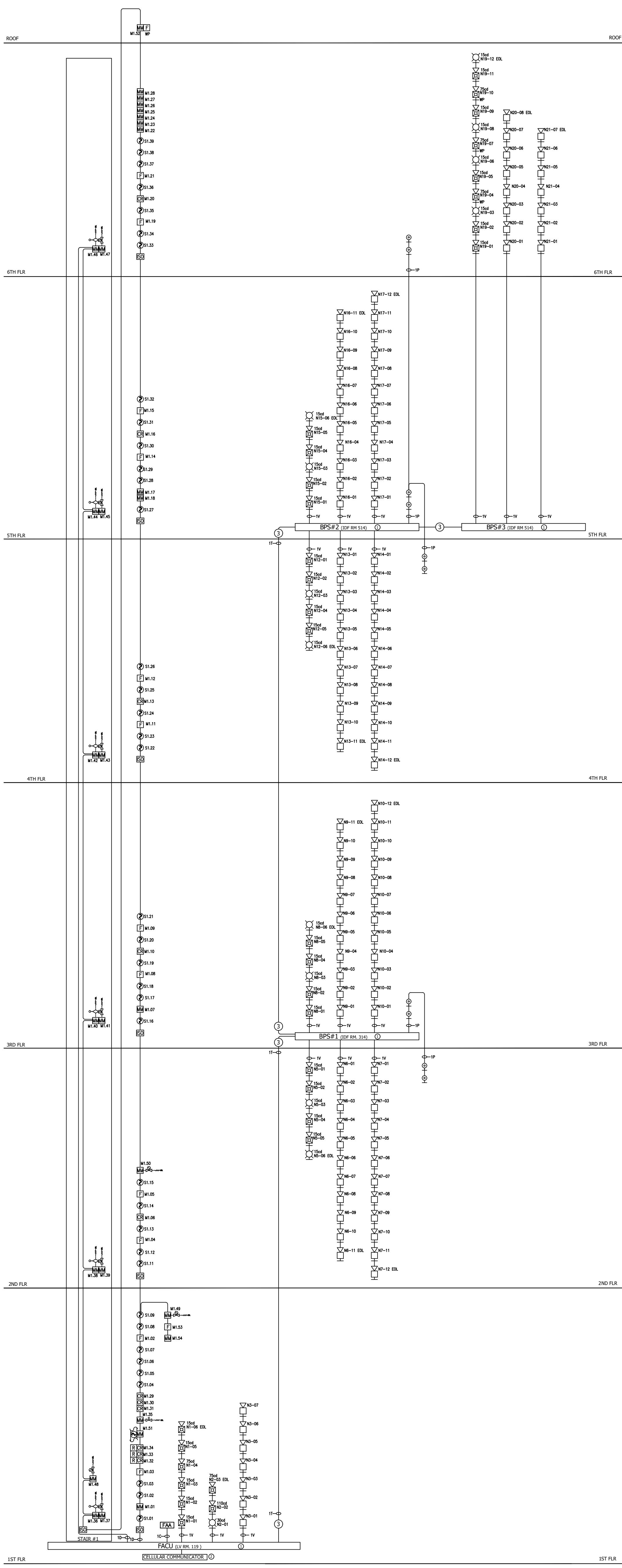
2902 ADELINE APARTMENTS
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BERKELEY, CALIFORNIA 94703

REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPONDER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 SAN FRANCISCO, CA 94188 Carlos Olivares: (650) 610-8637, NICEC III #84003 carlos.olivares@fugoeing.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:	ROOF PLAN		

2902 ADELINE APARTMENTS
FIRE ALARM SYSTEM
SCALE: 1/8" = 1'-0"
SHEET NO. FA-7.0

FIRE ALARM CONTROL PANEL DEVICE ADDRESS SCHEDULE	
ADDRESS	DEVICE DESCRIPTION
S1.01	SMOKE DETECTOR - 1ST FLR LV RM 119 - ABOVE FACP
S1.02	SMOKE DETECTOR - 1ST FLR CORRIDOR 111
S1.03	SMOKE DETECTOR - 1ST FLR CORRIDOR 111
S1.04	SMOKE DETECTOR - 1ST FLR ELEVATOR CONTROL RM. 118
S1.05	SMOKE DETECTOR - 1ST FLR CORRIDOR 111
S1.06	SMOKE DETECTOR - 1ST FLR CORRIDOR LOBBY
S1.07	SMOKE DETECTOR - 1ST FLR CORRIDOR LOBBY
S1.08	SMOKE DETECTOR - 1ST FLR CORRIDOR 111
S1.09	SMOKE DETECTOR - 1ST FLR CORRIDOR 111
S1.10	SPARE
S1.11	SMOKE DETECTOR - 2ND FLR CORRIDOR 215
S1.12	SMOKE DETECTOR - 2ND FLR CORRIDOR 215 ABOVE FIRE DOORS
S1.13	SMOKE DETECTOR - 2ND FLR ELEVATOR LOBBY
S1.14	SMOKE DETECTOR - 2ND FLR CORRIDOR 215
S1.15	SMOKE DETECTOR - 2ND FLR TRASH RM. 213
S1.16	SMOKE DETECTOR - 3RD FLR IDF RM 314
S1.17	SMOKE DETECTOR - 3RD FLR CORRIDOR 315
S1.18	SMOKE DETECTOR - 3RD FLR CORRIDOR 315 ABOVE FIRE DOORS
S1.19	SMOKE DETECTOR - 3RD FLR ELEVATOR LOBBY
S1.20	SMOKE DETECTOR - 3RD FLR CORRIDOR 315
S1.21	SMOKE DETECTOR - 3RD FLR TRASH RM. 313
S1.22	SMOKE DETECTOR - 4TH FLR CORRIDOR 415
S1.23	SMOKE DETECTOR - 4TH FLR CORRIDOR 415 ABOVE FIRE DOORS
S1.24	SMOKE DETECTOR - 4TH FLR ELEVATOR LOBBY
S1.25	SMOKE DETECTOR - 4TH FLR CORRIDOR 415
S1.26	SMOKE DETECTOR - 4TH FLR TRASH RM. 413
S1.27	SMOKE DETECTOR - 5TH FLR IDF RM 514
S1.28	SMOKE DETECTOR - 5TH FLR CORRIDOR 515
S1.29	SMOKE DETECTOR - 5TH FLR CORRIDOR 515 ABOVE FIRE DOORS
S1.30	SMOKE DETECTOR - 5TH FLR ELEVATOR LOBBY
S1.31	SMOKE DETECTOR - 5TH FLR CORRIDOR 515
S1.32	SMOKE DETECTOR - 5TH FLR TRASH RM. 513
S1.33	SMOKE DETECTOR - 6TH FLR CORRIDOR 615
S1.34	SMOKE DETECTOR - 6TH FLR CORRIDOR 615 ABOVE FIRE DOORS
S1.35	SMOKE DETECTOR - 5TH FLR ELEVATOR LOBBY
S1.36	SMOKE DETECTOR - 6TH FLR CORRIDOR 615
S1.37	SMOKE DETECTOR - 6TH FLR TRASH RM. 613
S1.38	SMOKE DETECTOR - TOP OF ELEVATOR HOISTWAY
S1.39	SMOKE DETECTOR - 6TH FLR CORRIDOR 615

ADDRESS	DEVICE DESCRIPTION
M1.01	MONITOR - CELLULAR PANEL TROUBLE - 1ST FLR LV RM.
M1.02	PULL-STATION - 1ST FLR ENTRY
M1.03	PULL-STATION - 1ST FLR CORRIDOR 111 EXIT
M1.04	PULL-STATION - 2ND FLR STAIR #1 EXIT
M1.05	PULL-STATION - 2ND FLR STAIR #2 EXIT
M1.06	RELAY- 1ST FLR SMOKE CURTAIN
M1.07	MONITOR BPS #1 TROUBLE - 2ND FLR IDF RM.
M1.08	PULL-STATION - 3RD FLR STAIR #1 EXIT
M1.09	PULL-STATION - 3RD FLR STAIR #2 EXIT
M1.10	RELAY- 3RD FLR SMOKE CURTAIN
M1.11	PULL-STATION - 4TH FLR STAIR #1 EXIT
M1.12	PULL-STATION - 4TH FLR STAIR #2 EXIT
M1.13	RELAY- 4TH FLR SMOKE CURTAIN
M1.14	PULL-STATION - 5TH FLR STAIR #1 EXIT
M1.15	PULL-STATION - 5TH FLR STAIR #2 EXIT
M1.16	RELAY- 5TH FLR SMOKE CURTAIN
M1.17	MONITOR BPS #2 TROUBLE - 5TH FLR IDF RM.
M1.18	MONITOR BPS #3 TROUBLE - 5TH FLR IDF RM.
M1.19	PULL-STATION - 6TH FLR STAIR #1 EXIT
M1.20	PULL-STATION - 6TH FLR STAIR #2 EXIT
M1.21	RELAY- 6TH FLR SMOKE CURTAIN
M1.22	ERCCS- AC FAIL
M1.23	ERCCS- LOW BATTERY
M1.24	ERCCS- BATTERY CHARGER FAIL
M1.25	ERCCS- SIGNAL BOOSTER FAIL
M1.26	ERCCS- 700MHZ ANTENNA MALFUNCTION
M1.27	ERCCS- BDA LINK FAIL
M1.28	ERCCS- INDOOR ANTENNA MALFUNCTION
M1.29	RELAY- ELEVATOR RECALL PRIMARY
M1.30	RELAY- ELEVATOR RECALL ALTERNATE
M1.31	RELAY- ELEVATOR CAB FIREMEN'S LAMP
M1.32	RELAY- FSD ACTIVATION
M1.33	RELAY- FSD ACTIVATION
M1.34	RELAY- FSD ACTIVATION
M1.35	MONITOR - BACKFLOW
M1.36	MONITOR - 1ST FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.37	MONITOR - 1ST FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.38	MONITOR - 2ND FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.39	MONITOR - 2ND FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.40	MONITOR - 3RD FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.41	MONITOR - 3RD FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.42	MONITOR - 4TH FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.43	MONITOR - 4TH FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.44	MONITOR - 5TH FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.45	MONITOR - 5TH FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.46	MONITOR - 6TH FLR STAIR#1 SPRINKLER FLOW SWITCH
M1.47	MONITOR - 6TH FLR STAIR#1 SPRINKLER ISOLATION VALVE TAMPER
M1.48	MONITOR - 1ST FLR STAIR#1 HOSE RISER TAMPER
M1.49	MONITOR - 1ST FLR TRASH RMS SPRINKLER RISER TAMPER
M1.50	MONITOR - 2ND FLR STAIR#2 HOSE RISER TAMPER
M1.51	MONITOR - DUCT SMOKE DETECTOR - PARKING GARAGE
M1.52	PULL STATION - EXTERIOR ROOF
M1.53	PULL STATION - PARKING GARAGE ENTRY DOOR
M1.54	MONITOR - 2 WAY COMM. SYSTEM TROUBLE



SYSTEM RISER NOTES	
DEVICE LEGEND	
SYMBOL	DESCRIPTION
[FACU]	FIRE ALARM CONTROL UNIT
[FAA]	REMOTE ANNUNCIATOR
[FAC]	CELLULAR COMMUNICATOR
[BPS]	BOOSTER POWER SUPPLY
[FADB]	FIRE ALARM DOCUMENT CABINET
[SM]	SMOKE DETECTOR
[HD]	HEAT DETECTOR
[AP]	ADDRESSABLE PULL STATION
[AIM]	ADDRESSABLE INPUT MODULE
[AR]	ADDRESSABLE RELAY MODULE
[ADI]	ADDRESSABLE DUAL INPUT MODULE
[10A]	10 AMP RELAY
[SI]	FAULT ISOLATION MODULE
[HL]	HORN WALL, LOW FREQ
[HS]	HORN-STROBE WALL
[SWS]	STROBE WALL
[WP]	HORN-STROBE WALL, WP
[SPFS]	SPRINKLER FLOW SWITCH
[SPT]	SPRINKLER TAMPER SWITCH
[SBS]	SPRINKLER BACKFLOW SWITCH
[FSD]	FIRE SMOKE DAMPER
[AJB]	ADA J-BOX

2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703

REV. DATE DESCRIPTION D.B.
A 01-19-2026 CITY OF BERKELEY CORRECTIONS
A
A
A

RESPONDER: FUSCO ENGINEERING & DESIGN
P.O. BOX 889922
901 21ST STREET, SUITE 3400
Carlo Olivares: (619) 610-8637, NICET III #84003
carlo.olivares@fuscoeng.com

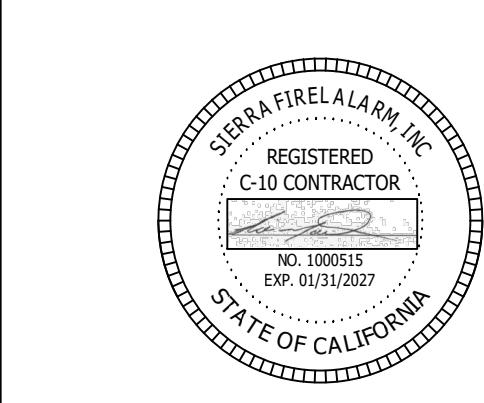
DESIGN: C.O. DRAWN: C.O.
CHECKED: LM JOB NO:
DATE: 07-25-2025 PLOT:
SHEET TITLE:
SYSTEM RISER DIAGRAM & FACP DEVICE ADDRESSES

2902 ADELINE APARTMENTS
FIRE ALARM SYSTEM
SCALE: N.T.S.
SHEET NO. FA-8.0

SIERRA FIRE ALARM INC.
4505 YANKEE HILL COURT
ROCKLIN, CA 95677
C-10 LICENSE #: 1000515



Sierra Fire Alarm Inc.
REGISTERED
C-10 CONTRACTOR
NO. 1000515
EXP. 03/31/2025
STATE OF CALIFORNIA



STATE OF CALIFORNIA
REGISTRATION
C-10 CONTRACTOR
NO. 1000515
EXP. 03/31/2025

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ES-200X FACP (5 MINUTES IN ALARM, 24 HRS STANDBY)						FIRE - LITE	
A	B	C	D	E	F		
DEVICE TYPE	Quantity	Standby Current (B x C)	Total Standby Current (B x C)	Alarm Current (B x E)	Total Alarm Current (B x E)		
MAIN BOARD	1	0.141000A	0.141000A	0.257000A	0.257000A		
ANN-80 ANNUNCIATOR	1	0.040000A	0.040000A	0.040000A	0.040000A		
BG-12LX MANUAL PULL STATION	12	0.000230A	0.002760A	0.000230A	0.002760A		
MMF-301 MINI SINGLE MONITOR MODULE	30	0.000375A	0.011250A	0.000375A	0.011250A		
CRF-300 RELAY MODULE	11	0.000255A	0.002805A	0.000650A	0.071500A		
I300 FAULT ISOLATOR MODULE	7	0.000450A	0.003150A	0.000450A	0.003150A		
SD365 SMOKE DETECTOR	38	0.000200A	0.007600A	0.004500A	0.171000A		
		Total Standby Current =	0.209A	Total Alarm Current =	0.557A		

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N1-01	0.035A	37'	41'	0.262A	0.065v	0.262A	0.225v	1.1027%
N1-02	0.035A	39'	43'	0.227A	0.060v			
N1-03	0.035A	48'	53'	0.192A	0.062v			
N1-04	0.087A	11'	12'	0.157A	0.012v			
N1-05	0.035A	41'	45'	0.070A	0.019v			
N1-06	0.035A	27'	30'	0.035A	0.006v			

HPF-PS10 BPS#1 (5 MINUTES IN ALARM, 24HRS STANDBY)								HONEYWELL
INTERNAL POWER SUPPLY COMPONENTS	A	B	C	D	E	F		
MAIN POWER SUPPLY BOARD	1			Total Standby Current (B x C)	0.156A	0.156A	0.185A	
			Total Standby Current =	0.156A	Total Alarm Current =	0.185A		

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N2-01	0.022A	36'	40'	0.616A	0.150v	0.616A	0.384v	1.8847%
N2-02	0.297A	28'	31'	0.594A	0.112v			
N2-03	0.297A	61'	67'	0.297A	0.122v			

NOTIFICATION APPLIANCES	DEVICE CURRENT DRAW	CIRCUIT # AND QTY						HONEYWELL	
		N5	N6	N7	N8	N9	N10	N11 - DOOR HOLDER POWER	
15cd STROBE WALL OR CEILING	0.018A	2	0	0	2	0	0	0	
15cd HORN-STROBE WALL	0.035A	4	0	0	4	0	0	0	
75cd HORN-STROBE WALL	0.087A	1	0	0	0	0	0	0	
110cd HORN-STROBE WALL OR 30cd STROBE WP WALL OR CEILING	0.094A	0	0	0	0	0	0	0	
HORN LOW FREQ	0.108A	0	0	7	0	0	0	0	
NAC CKT CURRENT DRAW =	0.262A	0.616A	0.756A	0.000A					
TOTAL STANDBY CALCULATIONS									
16 Total standby current								0.209	
17 Multiply by 24 or 60 for standby hours needed.								24H	
18 Total standby AH (Amp Hours)								5.0056 AH	

Device #	Device Draw	Distance	Distance + 10%	Amps	Volt Drop	Total Amps	Total Drop	Percent Drop
N3-01	0.108A	55'	61'	0.756A	0.381v	0.756A	0.570v	2.7926%
N3-02	0.108A	15'	17'	0.648A	0.066v			
N3-03	0.108A	16'	18'	0.540A	0.058v			
N3-04	0.108A	18'	20'	0.432A	0.053v			
N3-05	0.108A	17'	19'	0.324A	0.037v			
N3-06	0.108A	41'	45'	0.216A	0.060v			
N3-07	0.108A	21'	23'	0.108A	0.015v			

NOTIFICATION APPLIANCES	DEVICE CURRENT DRAW	CIRCUIT # AND QTY						HONEYWELL	
		N5	N6	N7	N8	N9	N10	N11 - DOOR HOLDER POWER	
15cd STROBE WALL OR CEILING	0.018A	2	0	0	2	0	0	0	
15cd HORN-STROBE WALL	0.035A	4	0	0	4	0	0	0	
HORN LOW FREQ	0.108A	0	0	11	12	0	11	0	
NAC CKT CURRENT DRAW =	0.176A	1.188A	1.296A	0.176A	1.188A	1.296A	0.000A		
TOTAL STANDBY CALCULATIONS									
16 Total standby current								0.156	
17 Multiply by 24 or 60 for standby hours needed.								24H	
18 Total standby AH (Amp Hours)								3.7440 AH	

NOTIFICATION APPLIANCES	DEVICE CURRENT DRAW	CIRCUIT # AND QTY						HONEYWELL	
		N5	N6	N7	N8	N9	N10	N11 - DOOR HOLDER POWER	
15cd STROBE WALL OR CEILING	0.018A	2	0	0	2	0	0	0	
15cd HORN-STROBE WALL	0.035A	4	0	0	4	0	0	0	
HORN LOW FREQ	0.108A	0	0	11	12	0	11	0	
NAC CKT CURRENT DRAW =	0.176A	1.188A	1.296A	0.176A	1.188A	1.296A			



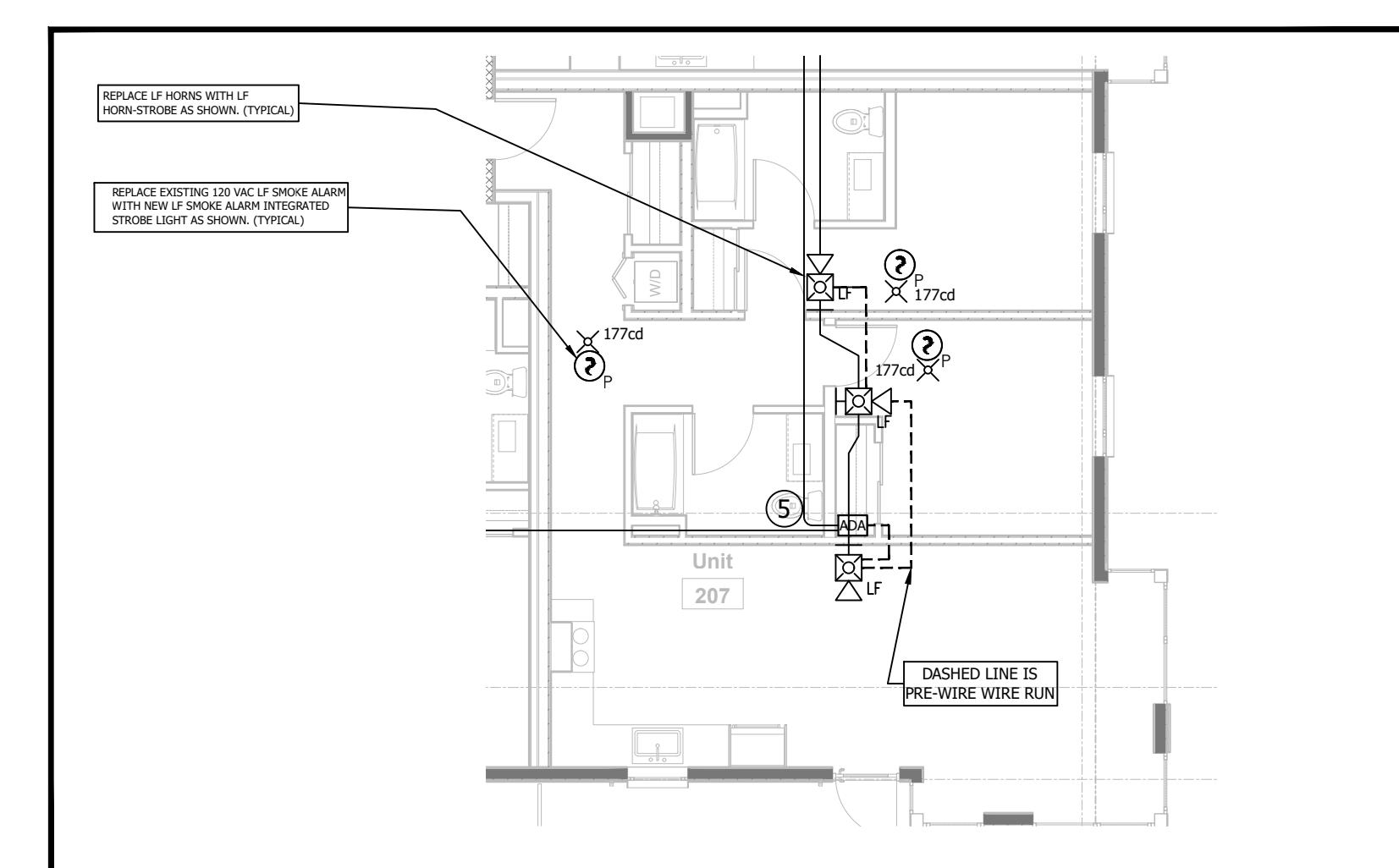
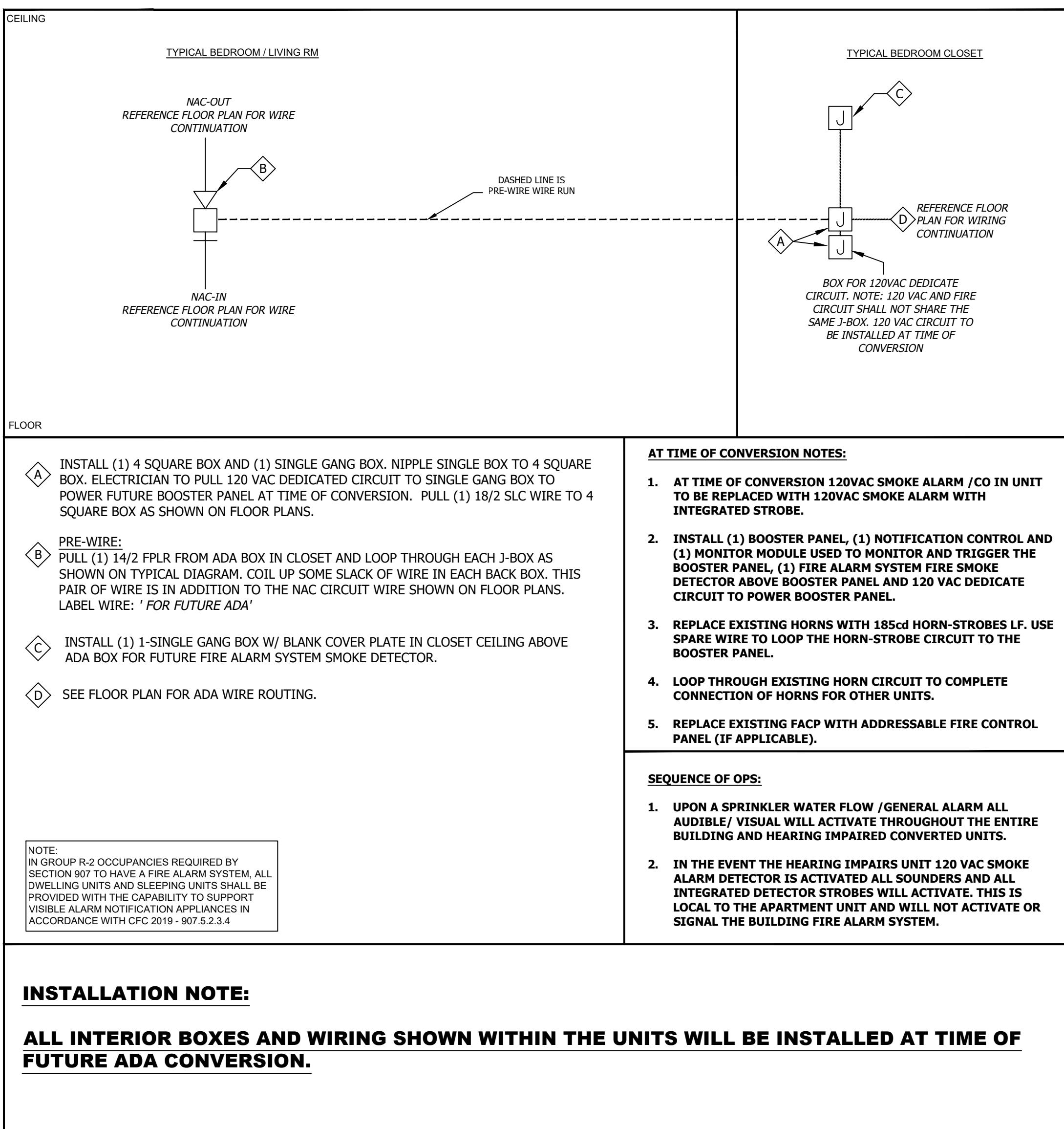
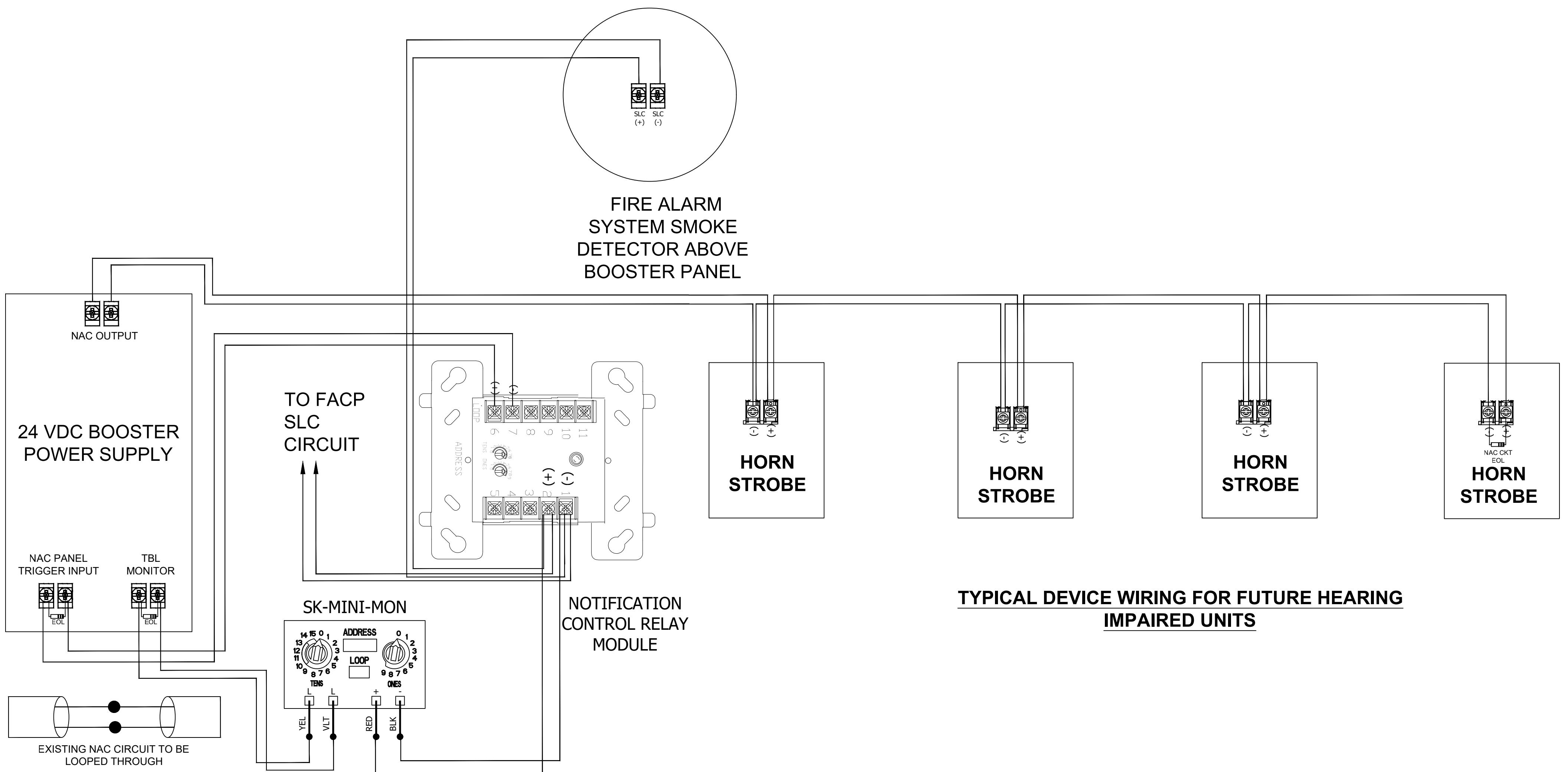
REGISTERED
C-10 CONTRACTOR
NO. 1000515
EXP. 03/20/2023
STATE OF CALIFORNIA

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2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703

HPF-PS10 BPS#2 (5 MINUTES IN ALARM, 24HRS STANDBY)										HONEYWELL	
A			B			C					
INTERNAL POWER SUPPLY COMPONENTS			Quantity	Total Standby Current (B x C)	Standby Current	D			E	F	Total Alarm Current (B x E)
MAIN POWER SUPPLY BOARD			1	0.156A	0.156A	0.185A			0.185A		
				Total Standby Current =	0.156A	Total Alarm Current =		0.185A			
NOTIFICATION APPLIANCES		DEVICE CURRENT DRAW	CIRCUIT # AND QTY								
15cd STROBE WALL OR CEILING		0.018A	N12	2	0	0	N14	2	0	N16	0
15cd HORN-STROBE WALL		0.035A	N13	4	0	0	N15	4	0	N17	0
HORN LOW FREQ		0.108A	N14	0	11	12	N16	0	11	N18	12
NAC CKT CURRENT DRAW =		0.176A	N18A	1.296A	0.176A	1.188A	N20	1.296A	0.000A		
											TOTAL NAC CKT CURRENT DRAW = 5.320A
TOTAL STANDBY CALCULATIONS		TOTAL STANDBY CALCULUS									
16 Total standby current											0.156
17 Multiply by 24 or 60 for standby hours needed.											24H
18 Total standby AH (Amp Hours)											3.7440 AH
ALARM CURRENT CALCULATIONS		TOTAL ALARM CURRENT CALCULUS									
19 Total alarm current											5.505
20 Multiply by 0.0833 for 5 min or 0.25 for 15 minutes of alarm											0.0833
21 Total alarm current.											0.4586 AH
BATTERY BACKUP REQUIREMENTS		TOTAL ALARM CURRENT CALCULUS									
22 Sub total, add line 18+21											4.2026 AH
23 Multiply by 1.2 for 25% Battery Derating Factor											25%
24 Total AH (Amp Hours)											5.2532 AH
											(2) BATTERY SUPPLIED = 7 AMP
Device # Device Draw Distance Distance + 10% Amps Volt Drop Total Amps Total Drop Percent Drop											
N12-01	0.035A	35'	39'	0.176A	0.042v	0.176A	0.086v	0.4194%			
N12-02	0.035A	19'	21'	0.141A	0.018v						
N12-03	0.018A	8'	9'	0.106A	0.006v						
N12-04	0.035A	14'	15'	0.088A	0.008v						
N12-05	0.035A	32'	35'	0.053A	0.011v						
N12-06	0.018A	3'	3'	0.018A	0.000v						
Device # Device Draw Distance Distance + 10% Amps Volt Drop Total Amps Total Drop Percent Drop											
N13-01	0.108A	33'	36'	1.188A	0.265v	1.188A	0.731v	3.5828%			
N13-02	0.108A	5'	6'	1.080A	0.036v						
N13-03	0.108A	18'	20'	0.972A	0.118v						
N13-04	0.108A	16'	18'	0.864A	0.093v						
N13-05	0.108A	3'	3'	0.756A	0.015v						
N13-06	0.108A	16'	18'	0.648A	0.070v						
N13-07	0.108A	17'	19'	0.542A	0.025v						
N13-08	0.108A	5'	6'	0.432A	0.015v						
N13-09	0.108A	11'	12'	0.324A	0.024v						
N13-10	0.108A	20'	22'	0.216A	0.029v						
N13-11	0.108A	4'	4'	0.108A	0.003v						
Device # Device Draw Distance Distance + 10% Amps Volt Drop Total Amps Total Drop Percent Drop											
N14-01	0.108A	49'	50'	1.188A	0.259v	1.296A	0.958v	4.6946%			
N14-02	0.108A	4'	4'	1.188A	0.020v						
N14-03	0.108A	20'	22'	1.080A	0.148v						
N14-04	0.108A	5'	6'	0.972A	0.033v						
N14-05	0.108A	7'	8'	0.864A	0.014v						
N14-06	0.108A	22'	24'	0.756A	0.112v						
N14-07	0.108A	5'	6'	0.648A	0.022v						
N14-08	0.108A	20'	22'	0.540A	0.073v						
N14-09	0.108A	5'	6'	0.432A	0.015v						
N14-10	0.108A	5'	6'	0.324A	0.011v						
N14-11	0.108A	28'	31'	0.216A	0.041v						
N14-12	0.108A	5'	6'	0.108A	0.004v						
L SERIES WITH LED SYSTEM SENSOR NOTIFICATION APPLIANCE CURRENT DRAW LIST											
VDC CURRENT											
Device # Device Draw Distance Distance + 10% Amps Volt Drop Total Amps Total Drop Percent Drop											
N15-01	0.035A	15'	17'	0.176A	0.018v	0.176A	0.062v	0.3029%			
N15-02	0.035A	19'	21'	0.141A	0.018v						
N15-03	0.018A	8'	9'	0.106A	0.006v						
N15-04	0.035A	14'	15'	0.088A	0.018v						
N15-05	0.035A	32'	35'	0.053A	0.011v						
N15-06	0.018A	3'	3'	0.018A	0.000v						
Device # Device Draw Distance Distance + 10% Amps Volt Drop Total Amps Total Drop Percent Drop											
N16-01	0.108A	15'	17'	1.188A	0.120v	1.188A	0.586v	2.8748%			
N16-02	0.108A	5'	6'	1.080A	0.036v						
N16-03	0.108A	18'	20'	0.972A	0.118v						
N16-04	0.108A	16'	18'	0.864A	0.093v						
N16-05	0.108A	3'	3'	0.756A	0.015v						
N16-06	0.108A	16'	18'	0.648A	0.070v						
N16-07	0.108A	17'	19'	0.540A	0.062v						
N16-08	0.108A	5'	6'	0.432A	0.015v						

FUTURE HEARING IMPAIRED PRE-WIRE DETAIL



CONVERSION LAYOUT FOR HEARING IMPAIRED UNITS

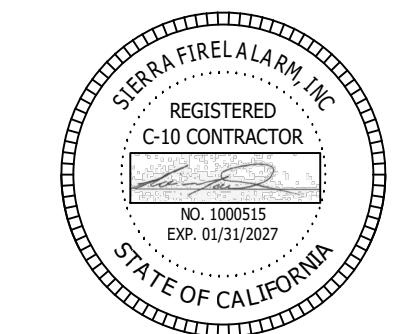
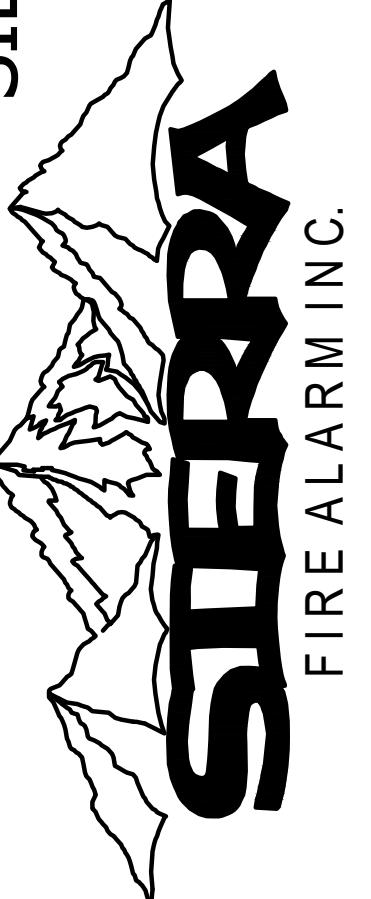
SIERRA FIRE ALARM INC.
4505 YANKEE HILL COURT
ROCKLIN, CA 95677
C-10 LICENSE #. 1000515



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2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703

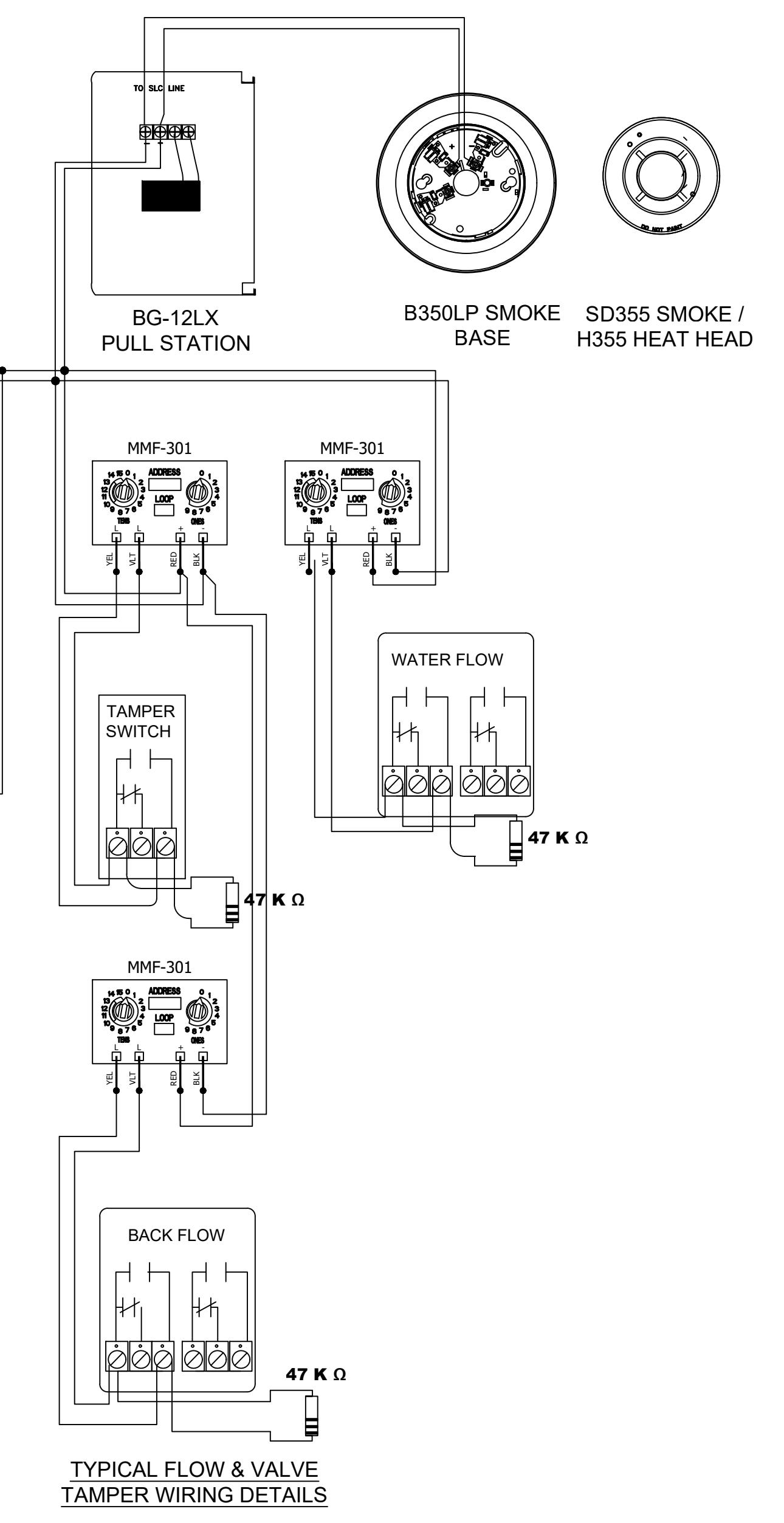
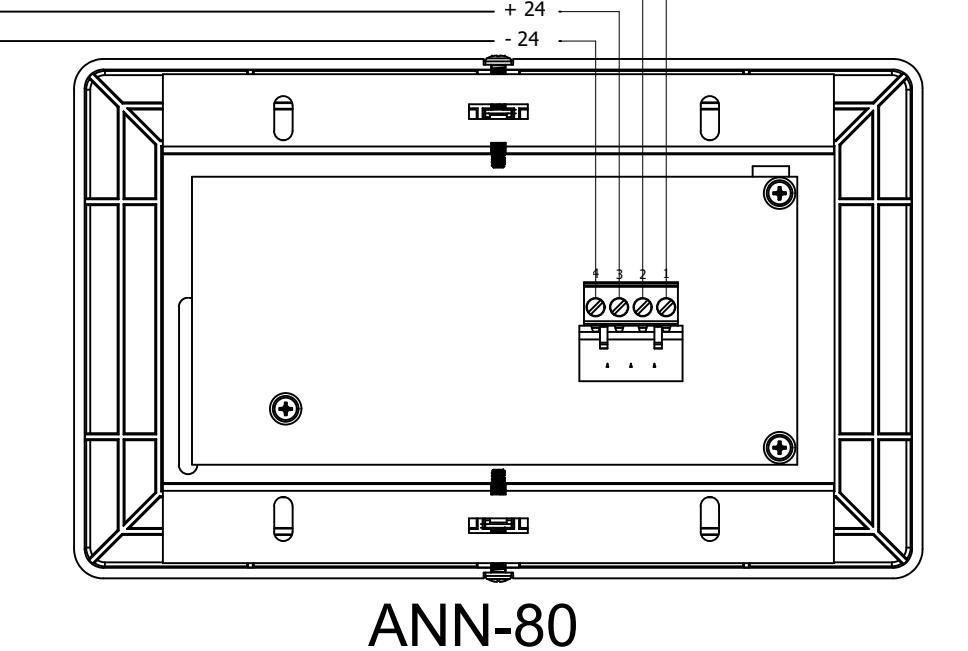
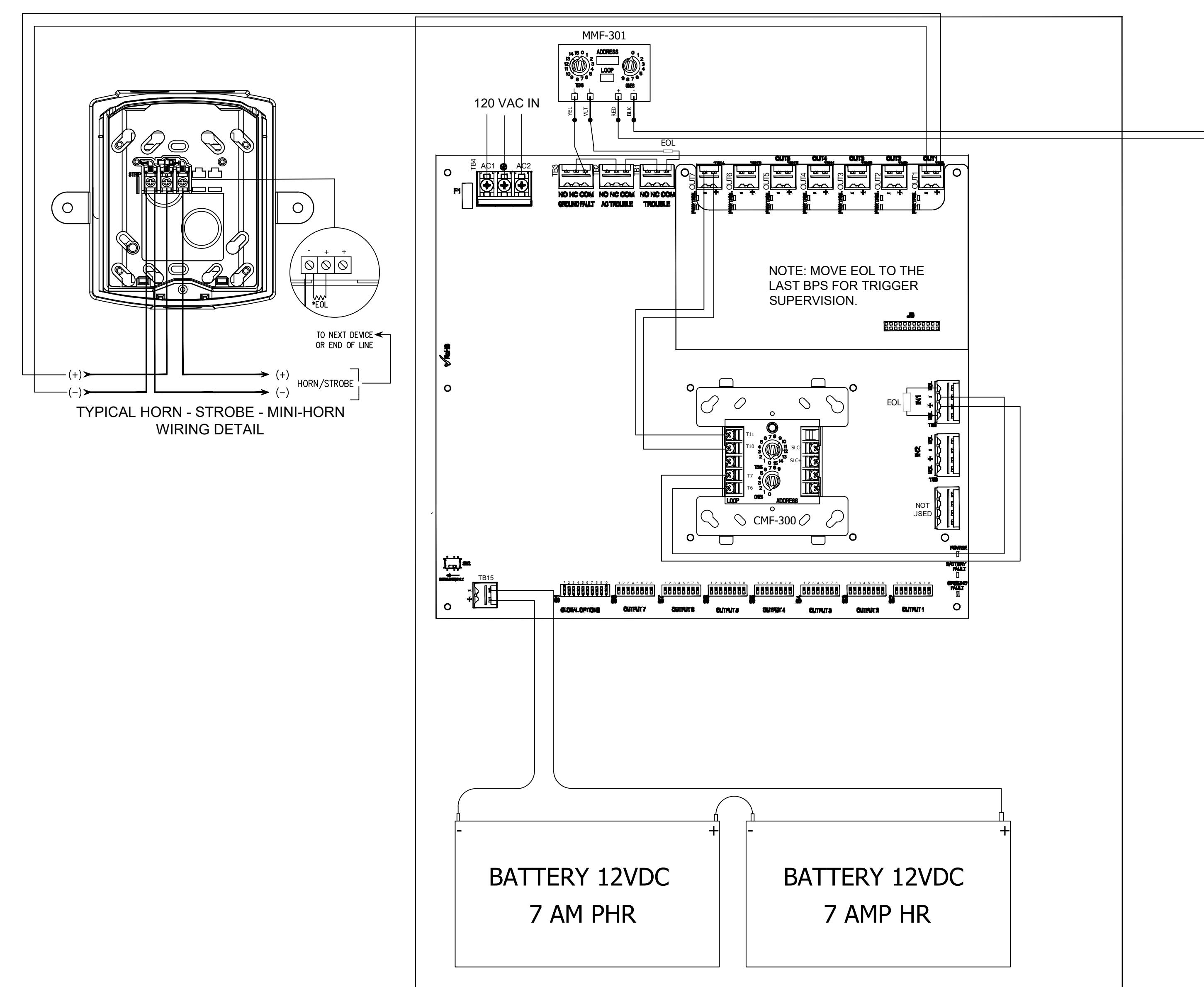
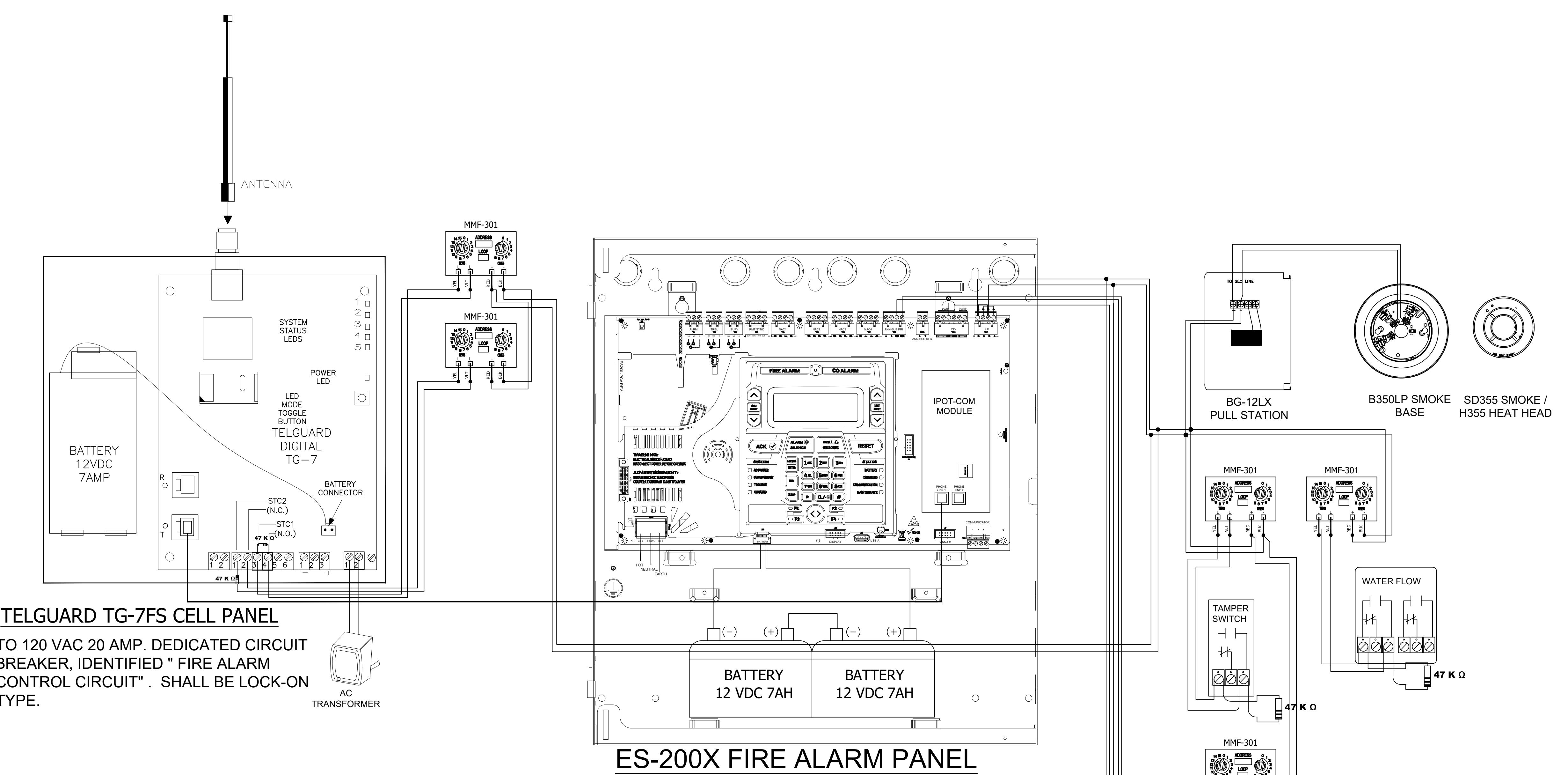
REV.	DATE	DESCRIPTION	D.B.
1	01-19-2026	CITY OF BERKELEY CORRECTIONS	
2			
3			
4			
DESIGNER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT COQUITLAM, BC V3B 5K8 Carlos Olivas: (619) 610-8637, NICEC III #84003 carlos.olivas@fugoen.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET:	TITLE: FUTURE HEARING IMPAIRED UNIT CONVERSION		
SCALE:	N.T.S.		
SHEET NO.			



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2902 ADELINE APARTMENTS

2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703

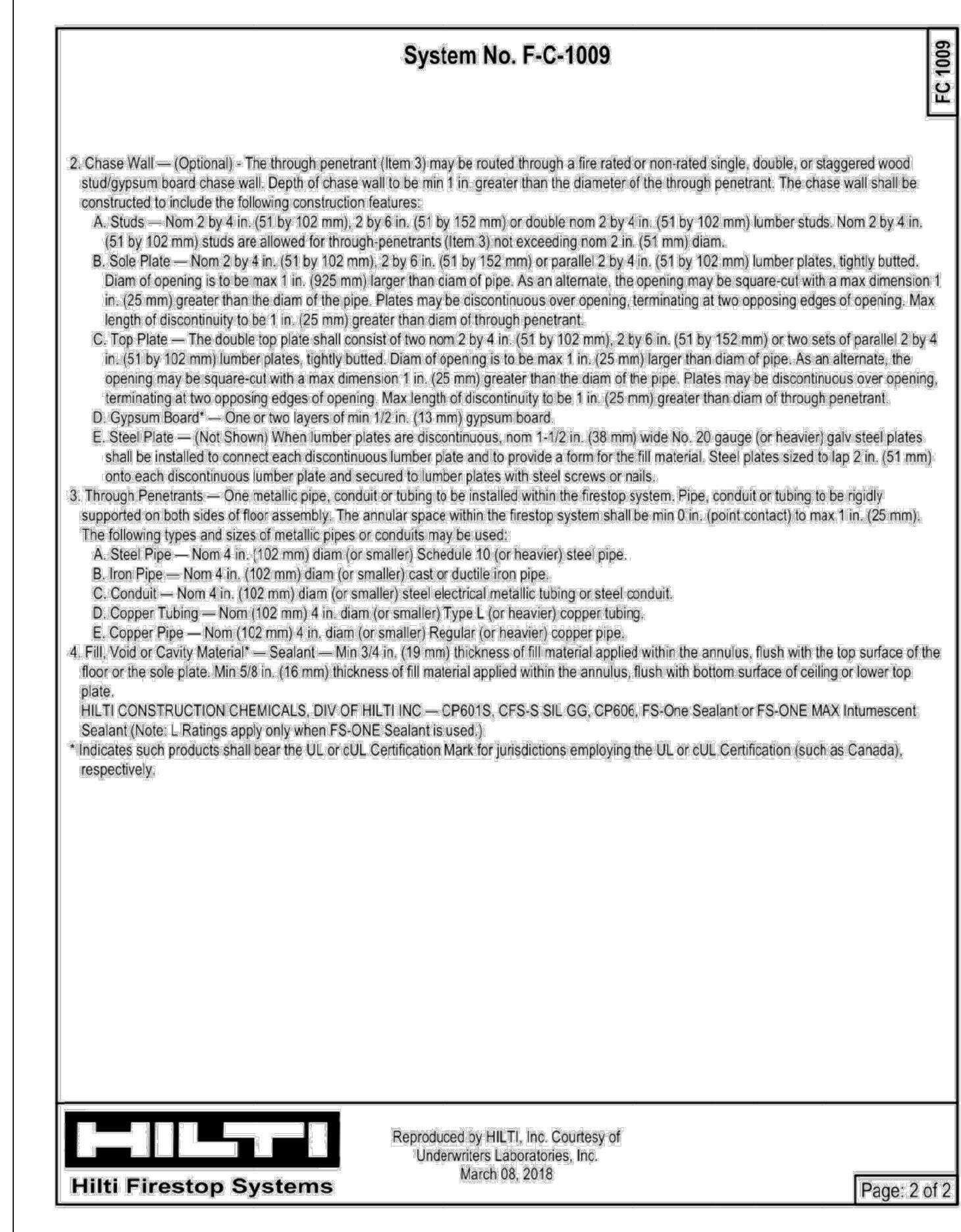
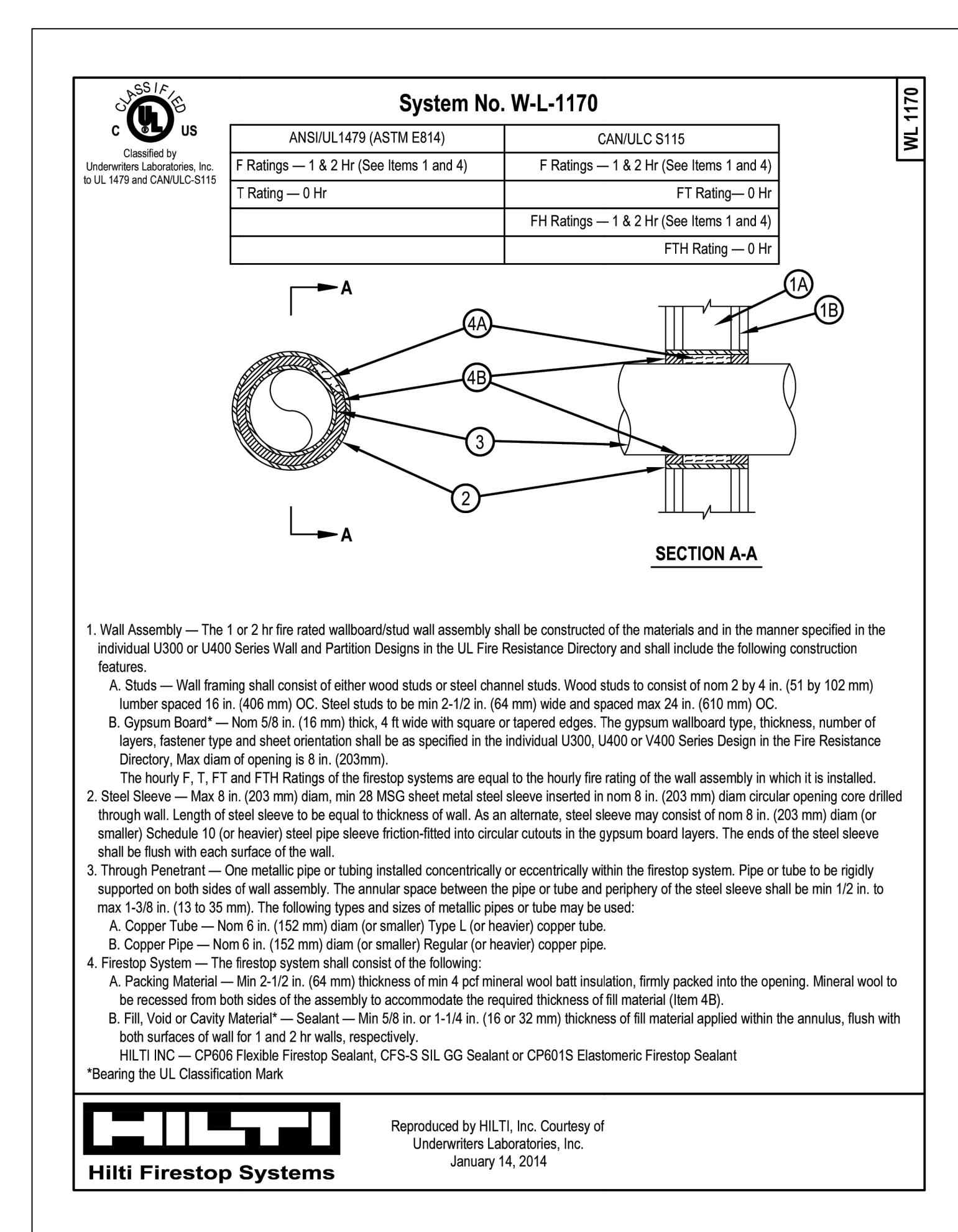
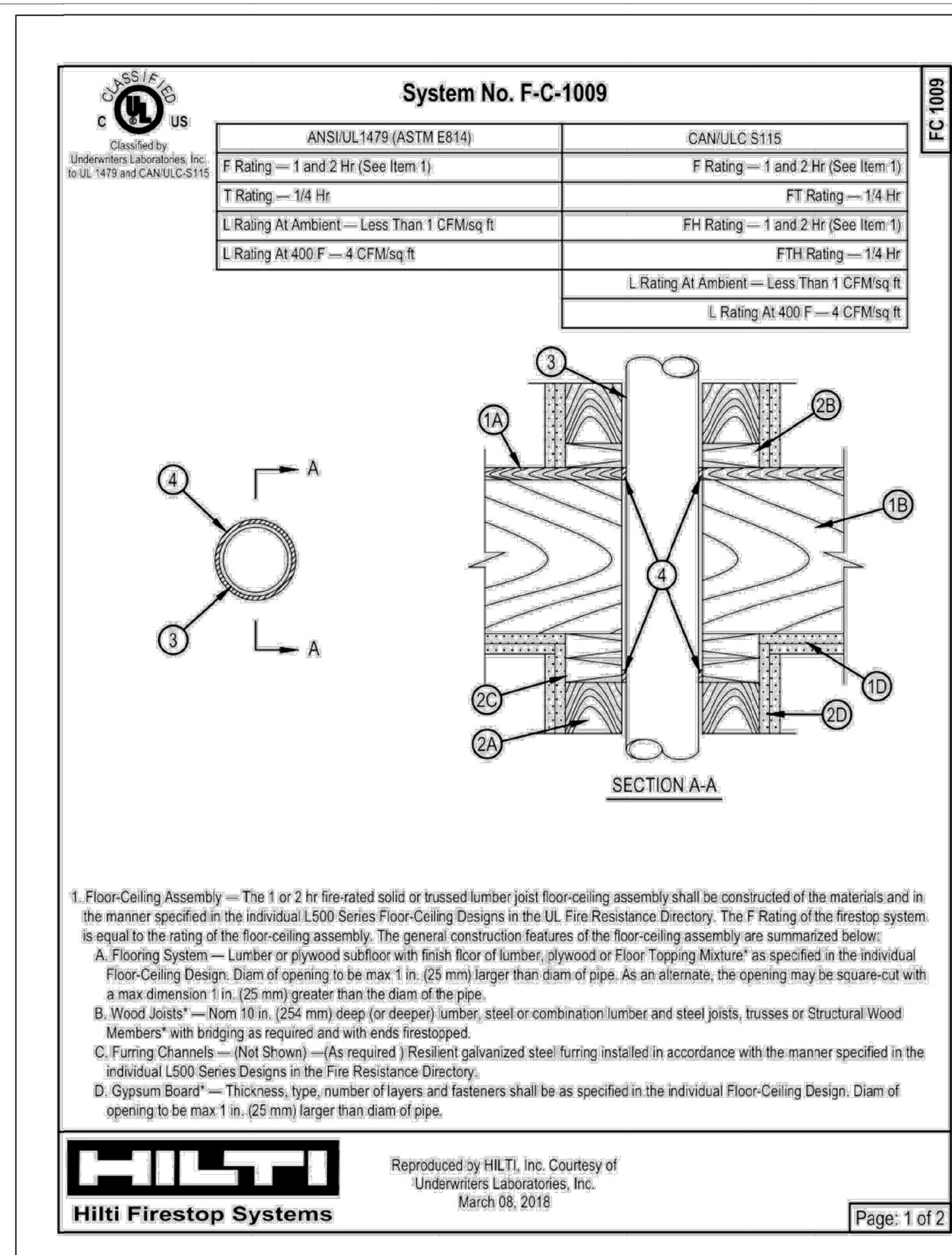


REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
DESIGNER:	FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORTOLA VALLEY, CA 94028 Carlos Olivas: (650) 610-8637, NICEIT III #84003 carlos.olivas@fugogp.com		
DESIGN:	C.O.	DRAWN:	C.O.
CHECKED:	LM	JOB NO:	
DATE:	07-25-2025	PLOT:	
SHEET TITLE:	POINT TO POINT WIRING DETAIL		
SCALE:	N.T.S.		
SHEET NO.			



Sierra Fire Alarm Inc.
REGISTERED
C-10 CONTRACTOR
NO. 1000515
EXP. 03/2019
STATE OF CALIFORNIA

2902 ADELINE APARTMENTS
2902 ADELINE STREET
BERKELEY, CALIFORNIA 94703



REV.	DATE	DESCRIPTION	D.B.
▲	01-19-2026	CITY OF BERKELEY CORRECTIONS	
▲			
▲			
▲			
RESPONDER: FUGO ENGINEERING & DESIGN P.O. BOX 889922 PORT COQUITLAM, BC V3B 5H6 Carlos Olivares: (604) 603-8637, NICEC III #84003 carlos.olivares@fugoen.com			
DESIGN: C.O. DRAWN: C.O.			
CHECKED: LM JOB NO:			
DATE: 07-25-2025 PLOT:			
SHEET TITLE: FIRE STOP PENETRATION DETAILS			
2902 ADELINE APARTMENTS			
FIRE ALARM SYSTEM			
SCALE: N.T.S.			
SHEET NO. FA-12.0			