

BRADLEY HEIGHTS

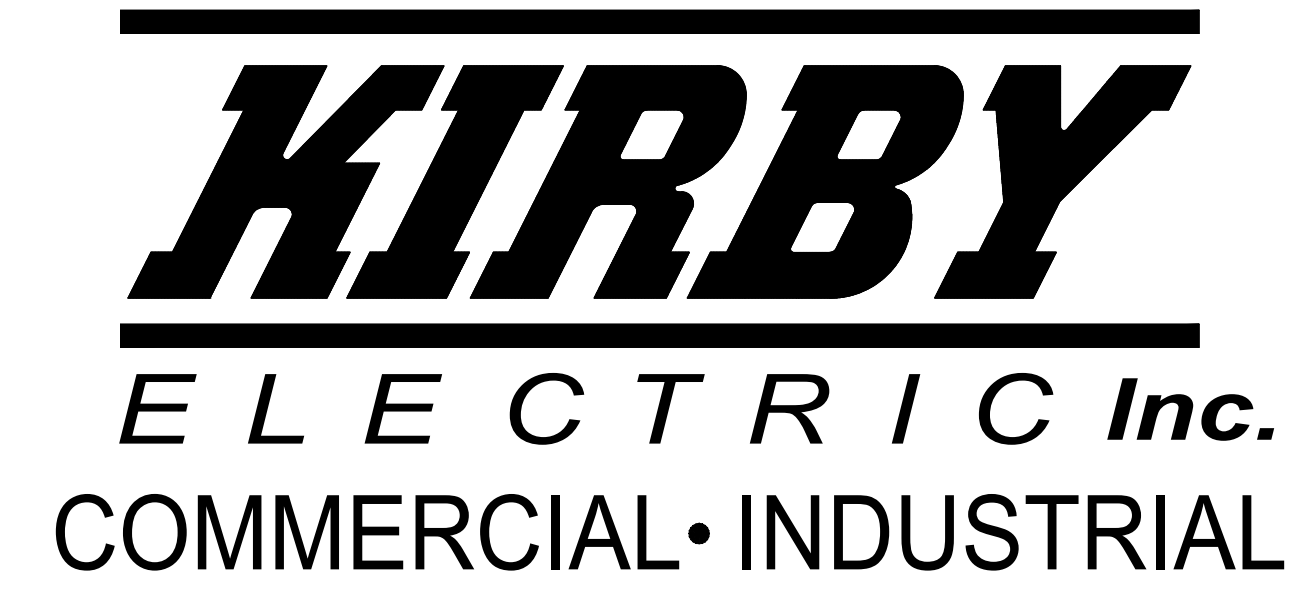
HEIGHTS

BLDG A

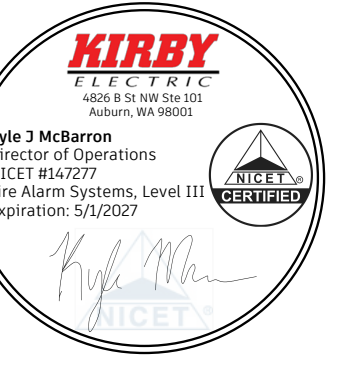
FIRE ALARM AND DETECTION SYSTEM

PROJECT SCOPE

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. PROVIDE AND INSTALL NEW SILENT KNIGHT 680B FIRE ALARM CONTROL PANEL AND NEW HONEYWELL HPF-PS10 REMOTE POWER SUPPLY FOR OCCUPANT NOTIFICATION. 2. PROVIDE AND INSTALL 5 STROBE ONLY NOTIFICATION APPLIANCES. 3. PROVIDE AND INSTALL 42 LOW FREQUENCY SOUNDER NOTIFICATION APPLIANCES. 4. PROVIDE AND INSTALL 5 LOW FREQUENCY SOUNDER STROBE NOTIFICATION APPLIANCES. 5. PROVIDE AND INSTALL 9 HORN/STROBE NOTIFICATION APPLIANCES & 1 WATERFLOW BELL. 6. PROVIDE AND INSTALL 15 MANUAL PULL STATIONS. | <ol style="list-style-type: none"> 7. PROVIDE AND INSTALL 1 SMOKE DETECTOR FOR FACP & PS10. 8. PROVIDE AND INSTALL 2 DUAL-INPUT MODULES. 9. PROVIDE AND INSTALL 9 HEAT DETECTORS. 10. PROVIDE AND INSTALL A HONEYWELL HW-AV-LTE-M CELLULAR COMMUNICATOR. |
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FIRE ALARM SHEET INDEX	
Sheet Number	Sheet Title
EFO.00	COVER SHEET
EFO.01	FIRE ALARM DETAILS
EFO.02	PANEL DETAILS
EFO.03	DEVICE DETAILS
EF1.01	ONE-LINE RISER DIAGRAM
EF2.01	FIRE ALARM PANEL CALCULATIONS
EFO.01	BASEMENT & LEVEL 1 FIRE ALARM PLAN
EF3.02	LEVEL 2 & 3 FIRE ALARM PLAN
EF3.03	ROOF FIRE ALARM PLAN

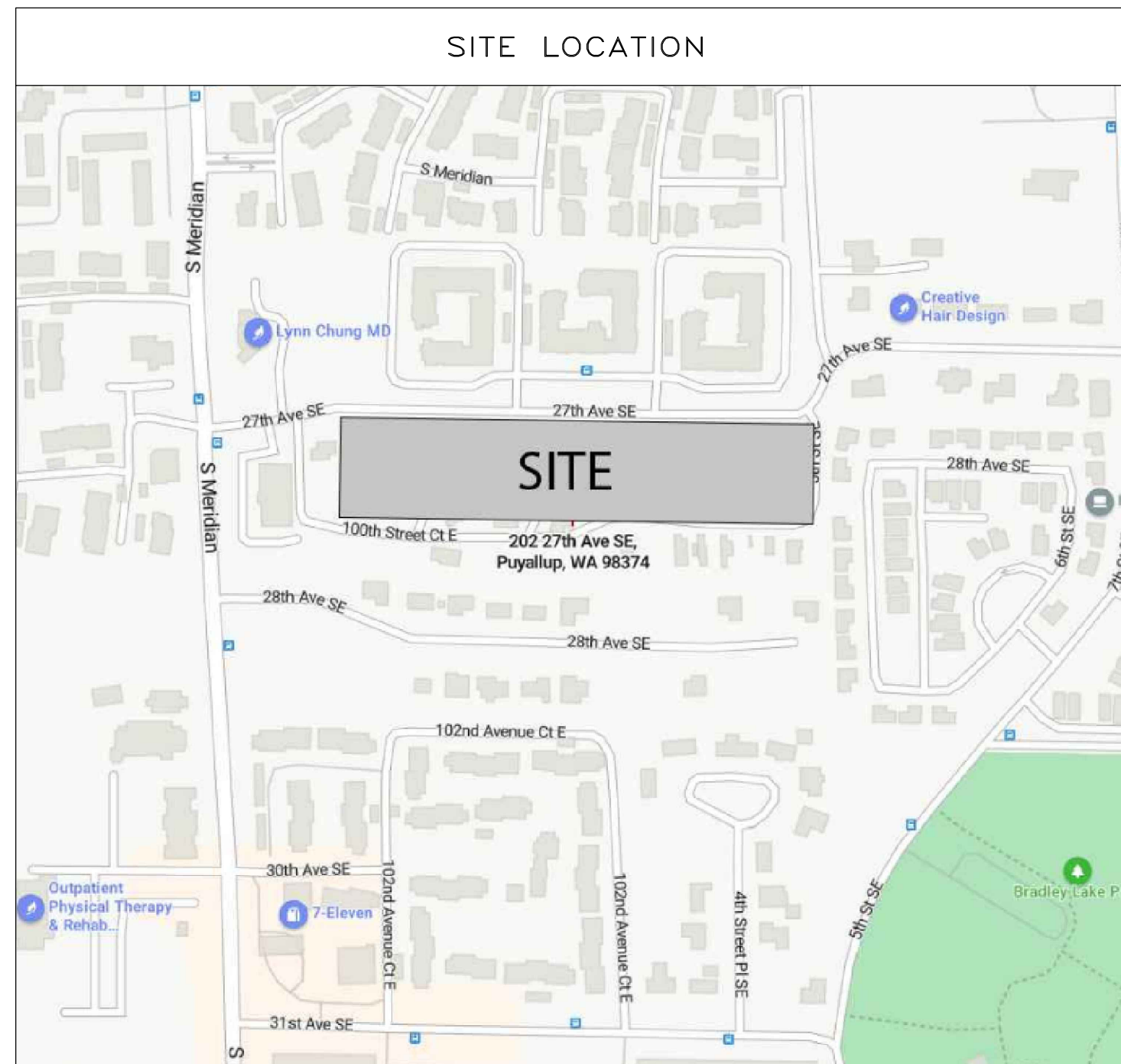


BRADLEY HEIGHTS BUILDING A

27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374

REVISIONS:

△ (2026-05-08) INITIAL SET



APPLICABLE CODES & STANDARDS

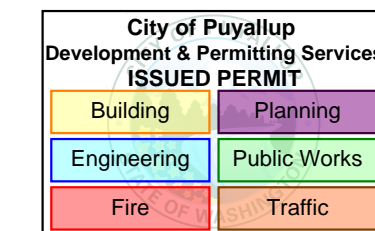
2022 NATIONAL FIRE ALARM & SIGNALING CODE NFPA72
 2023 NATIONAL ELECTRICAL CODE (NEC) NFPA70
 2021 INTERNATIONAL FIRE CODE (IFC) WITH WASHINGTON STATE AMENDMENTS
 2021 INTERNATIONAL BUILDING CODE (IBC) WITH WASHINGTON STATE AMENDMENTS

OCCUPANCY & BUILDING

OCCUPANCY : R-2
 USE : RESIDENTIAL
 BUILDING AREA : 28,504 S.F.

PROJECT CONTACTS

PROJECT MANAGER	DENNIS RISHKOVOY	dennis@kirbyelectric.com
FOREMAN	---	---
DESIGNER	DANIEL KOPYTIN	danielko@kirbyelectric.com
DIRECTOR OF OPERATIONS	KYLE MCBARRON	kylem@kirbyelectric.com
TECHNICIAN SCHEDULING	ANDRACO DICKSON	andracod@kirbyelectric.com



City of Puyallup
Fire
REVIEWED
FOR
COMPLIANCE

DDrake
 06/11/2026
 11:24:01 AM



THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

SHEET NUMBER: EFO.00

SHEET TITLE:
 COVER SHEET

PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058

DEVICE LEGEND				
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
FACP	1	SILENT KNIGHT	6808	INTELLIGENT FIRE ALARM CONTROL PANEL WITH COMMUNICATOR
PS10	1	HONEYWELL	HPF-PS10	10.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE
CELL	1	HONEYWELL	HW-AV-LTE-M	DUAL-PATH COMMUNICATOR WITH ENCLOSURE, INCLUDES ANTENNA.
M2	2	SILENT KNIGHT	SK-MONITOR-2	DUAL MONITORING MODULE
F	15	SILENT KNIGHT	SK-PULL-DA	DUAL ACTION PULL STATION
Ⓢ	1	SYSTEM SENSOR	SS-PHOTO WB300-6	WHITE, ADDRESSABLE PHOTOELECTRIC DETECTOR, STANDARD BASE
Ⓜ	9	SYSTEM SENSOR	SS-HEAT WB300-6	INTELLIGENT FIXED TEMPERATURE THERMAL DETECTOR, STANDARD BASE
ⓧ	5	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE
ⓧ WP	9	SYSTEM SENSOR	P2GRKLED	2-WIRE, COMPACT HORN STROBE, WALL, RED, OUTDOOR
ⓧ LF	5	SYSTEM SENSOR	P2WH-LF	2-WIRE LOW FREQUENCY SOUNDER STROBE, HIGH CD, WHITE
LF LF	42	SYSTEM SENSOR	HW-LF	LOW FREQUENCY SOUNDER, WHITE
F	1	SYSTEM SENSOR	SSM24-10	ALARM BELL 10" 24VDC, RED
JB	70	GENERIC	JUNCTION BOX	
SS	1	SPACE AGE ELECTRONICS	E120V-GT	HYBRID SURGE PROTECTION DEVICE
DOC	1	SPACE AGE ELECTRONICS	SSU00685	FIRE ALARM DOCUMENT CABINET W/RGB USB DRIVE (ACE-11), RED WITH CUSTOM LOGO
N/A	2	POWER-SONIC	PS-12180F2	12V 18AH BATTERY FOR FACP
N/A	2	POWER-SONIC	PS-1280F2	12V 8AH BATTERY FOR POWER SUPPLY
ADDITIONAL ASSEMBLY COMPONENTS AND HARDWARE				
	1	HONEYWELL	HPF-PS10 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD
	1	SILENT KNIGHT	6808 MAIN BOARD	MAIN BOARD

GENERAL NOTES

- FIRE ALARM SYSTEM IS POWER LIMITED.
- ALL RACEWAYS MUST BE FREE OF MOISTURE.
- REFER TO DATA SHEETS FOR PROPER TYPE AND SIZES OF REQUIRED DEVICE MOUNTING ELECTRICAL BOXES.
- AC VOLTAGE IS NOT PERMITTED IN THE SAME RACEWAY AS FIRE ALARM WIRING.
- UNRELATED (NON-FIRE ALARM) WIRE SHALL NOT BE IN THE SAME RACEWAY AS FIRE ALARM WIRE.
- ALL CONTRACTOR FIELD WIRING MUST ENTER ALARM CONTROL PANEL BACKBOX FOLLOWING POWER-LIMITING AND NON-POWER-LIMITING WIRING REQUIREMENTS. REFER TO INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
- ZONE CIRCUITS AND SIGNAL CIRCUITS ARE ELECTRICALLY SUPERVISED. BRANCH CIRCUITS SHALL BE LOOPED TO MAINTAIN INTEGRITY OF SUPERVISED CIRCUITS. T-TAPPING OF ZONE AND SIGNAL CIRCUITS IS NOT PERMITTED.
- REFER TO FACP MODULE DIAGRAMS, INCLUDED WITH FACP, FOR SPECIFICATIONS AND INFORMATION ON INDIVIDUAL PANEL MODULES.
- ALL FIRE ALARM WIRING SHALL TEST FREE OF OPENS, SHORTS, AND GROUNDS.
- ALL WIRING SHALL BE LABELED AND TAGGED.
- ALL WIRING SHALL MEET ALL APPLICABLE NATIONAL ELECTRICAL CODE ARTICLES FOR FIRE ALARM AND LOW-VOLTAGE WIRING.
- DO NOT USE FIRE ALARM CABINET AS TERMINAL CABINET.

FIRE ALARM SYSTEM DESIGNED BY: KIRBY ELECTRIC INC. AUBURN, WA 253-859-2000

FIRE ALARM SYSTEM INSTALLED BY: KIRBY ELECTRIC INC. AUBURN, WA

EQUIP. FOR FIRE ALARM SYSTEM SUPPLIED BY: SILENT KNIGHT INC. NORTHFORD, CT

WA STATE ELECTRICAL CONTRACTORS NUMBER: KIRBYEI809MZ

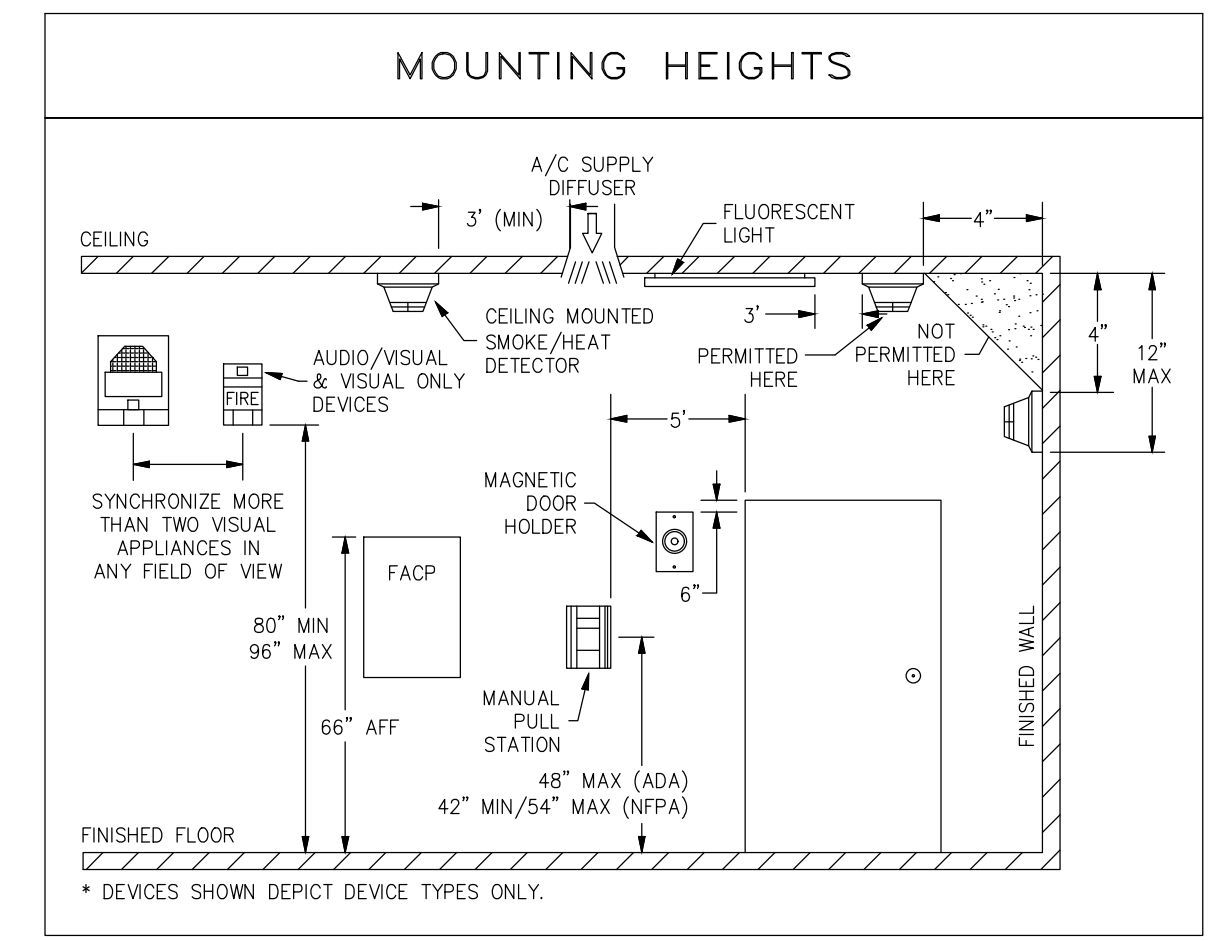
* THESE DRAWINGS DO NOT SUPERSEDE THE CONTRACT DRAWINGS AND SPECIFICATIONS. THEY ARE INTENDED AS A SUPPLEMENT ONLY AND MUST BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS. THEY DO NOT MODIFY THE CONTRACTORS OBLIGATIONS TO CONFORM TO THE PROJECTS ORIGINAL DESIGN CRITERIA.

CODE INFORMATION

BUILDING CODE
2021 INTERNATIONAL BUILDING CODE (B) WITH WASHINGTON STATE AMENDMENTS
2020 WASHINGTON STATE ENERGY CODE

NATIONAL FIRE PROTECTION ASSOCIATION
2022 NATIONAL FIRE ALARM CODE (NFPA 72)
2023 NATIONAL ELECTRICAL CODE (NFPA 70)
2021 INTERNATIONAL FIRE CODE (IFC) WITH WASHINGTON STATE AMENDMENTS

OCCUPANCY CLASSIFICATIONS
- R-2



DEVICE HEIGHT SCHEDULE

DEVICE	HEIGHT
OUTDOOR HORN/STROBE	96"
HORN/STROBE	80"
PULL STATION	48"
FIRE ALARM CONTROL PANEL	60"
POWER SUPPLY	60"
BELL	96"
ANNUNCIATOR	60"

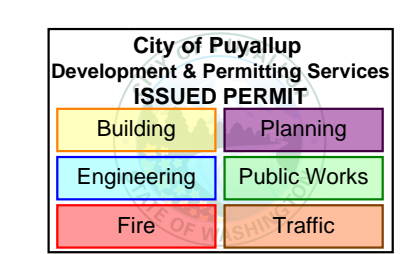
SYSTEM OUTPUTS

	FACP ANNUNCIATION												NOTIFICATION	
	A	B	C	D	E	F	G	H	I	J	K	L		
ACTIVATE COMMON ALARM SIGNAL INDICATOR					●	●								
ACTIVATE AUDIBLE ALARM SIGNAL					●	●								
ACTIVATE COMMON SUPERVISORY SIGNAL					●	●								
ACTIVATE AUDIBLE SUPERVISORY SIGNAL					●	●								
ACTIVATE COMMON TROUBLE SIGNAL INDICATOR					●	●								
ACTIVATE AUDIBLE TROUBLE SIGNAL					●	●								
ACTIVATE ZONE OR DEVICE ADDRESS SIGNAL					●	●								
DISPLAY GENERAL EVACUATION SIGNAL					●	●								
TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION					●	●								
TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION					●	●								
TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION					●	●								

SYSTEM INPUTS

	A	B	C	D	E	F	G	H	I	J	K	L	
1 FIRE ALARM SYSTEM AC POWER FAILURE					●	●							1
2 FIRE ALARM SYSTEM LOW BATTERY					●	●							2
3 OPEN CIRCUIT					●	●							3
4 GROUND FAULT					●	●							4
5 NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●							5
6 BUILDING MANUAL PULL STATIONS	●	●					●	●	●	●			6
7 AREA HEAT DETECTORS	●	●					●	●	●	●			7
8 AREA SMOKE DETECTORS	●	●					●	●	●	●			8
9 HOOD OR ROOM FIRE SUPPRESSION SYSTEM ALARM	●	●					●	●	●	●			9
10 SPRINKLER TAMPER SWITCH			●	●			●				●		10
11 SPRINKLER WATER FLOW IN BUILDING	●	●					●	●	●	●			11

FIRE ALARM SYSTEM MATRIX
SCALE: N.T.S.



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REVISIONS:
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 INITIAL SET

SHEET NUMBER: EFO.01

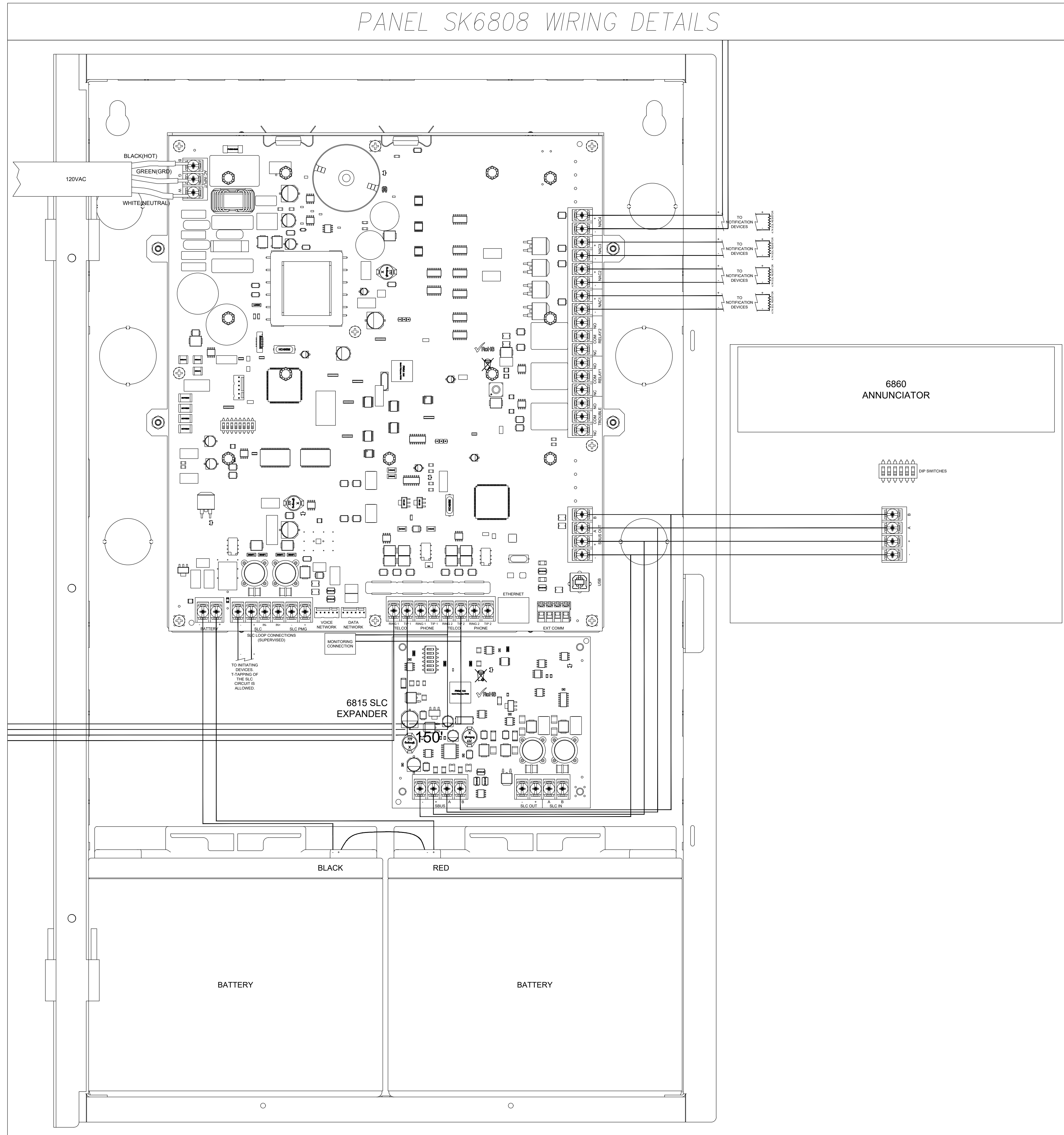
SHEET TITLE:
 FIRE ALARM
 DETAILS

PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058

PANEL SK6808 WIRING DETAILS



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



BRADLEY HEIGHTS
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27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374

REVISIONS:
A (2026-05-08)
INITIAL SET

SHEET NUMBER: EF0.02

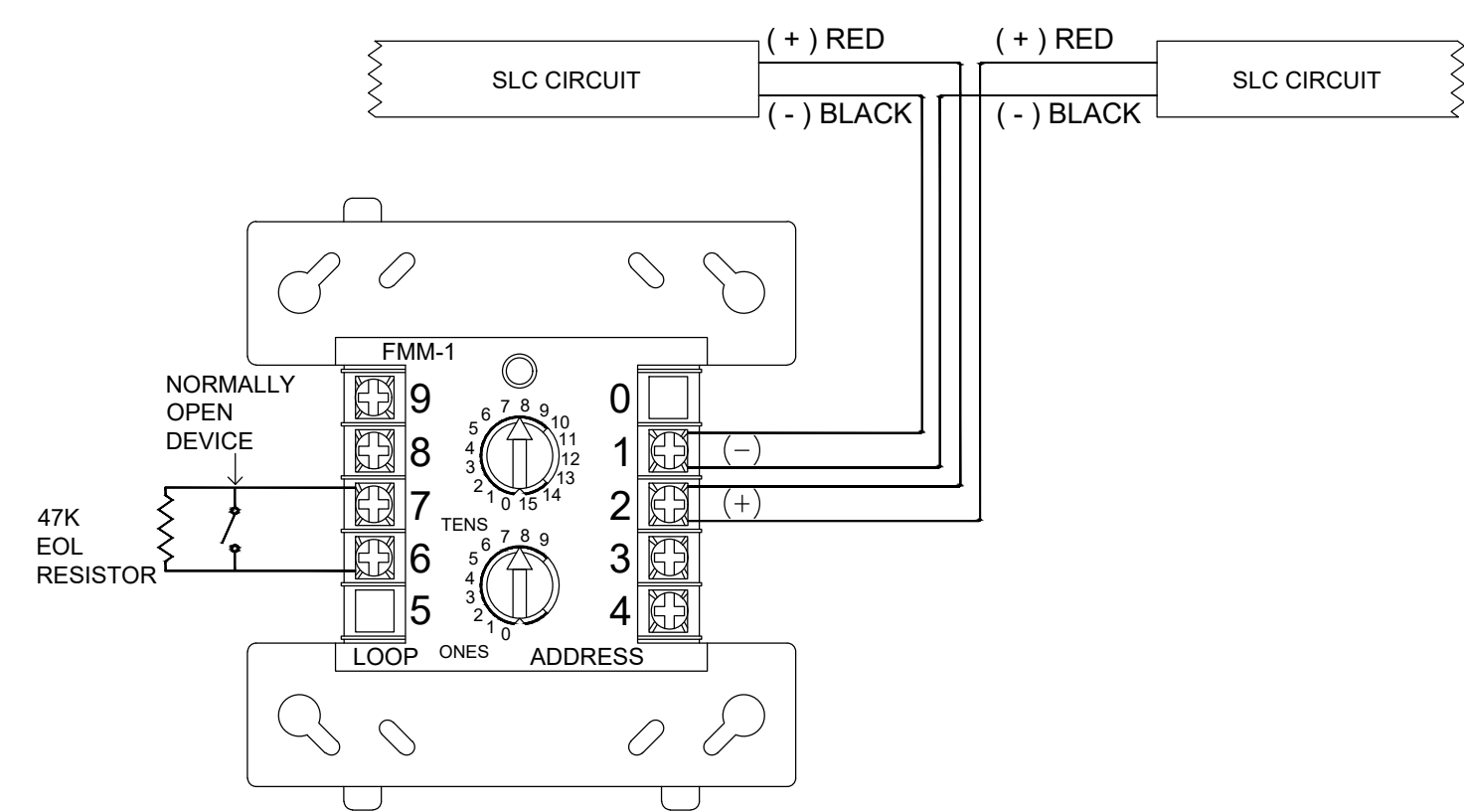
SHEET TITLE:
PANEL DETAILS

PLOT DATE: 05-08-26

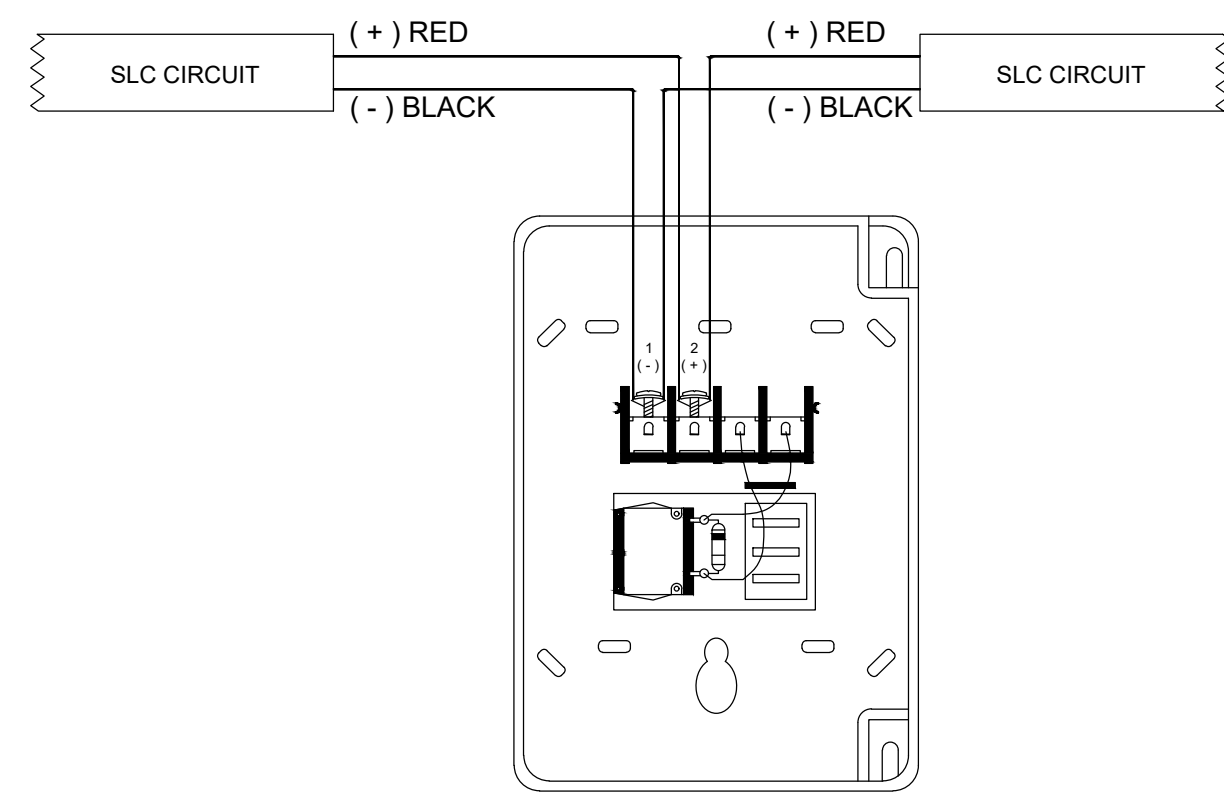
DESIGNED BY: D.S.K.

JOB NUMBER: 25-058

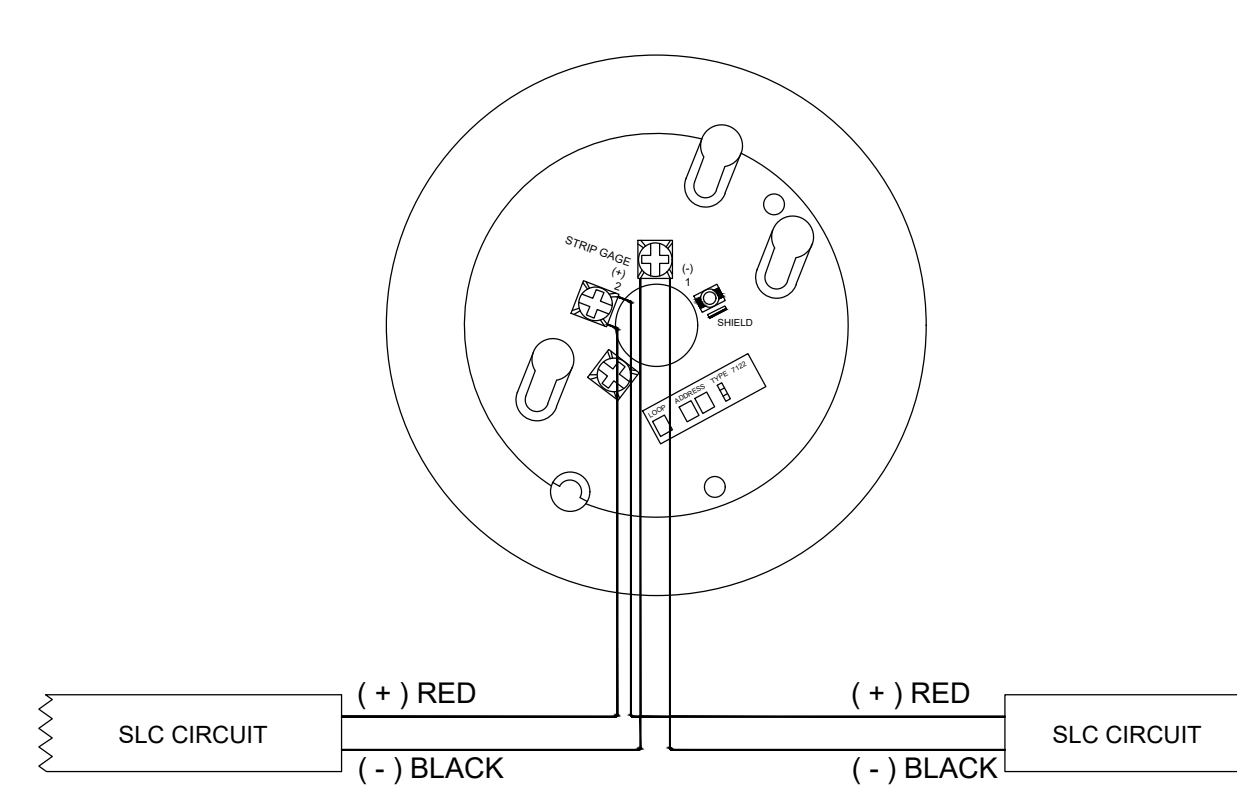
INPUT MODULE



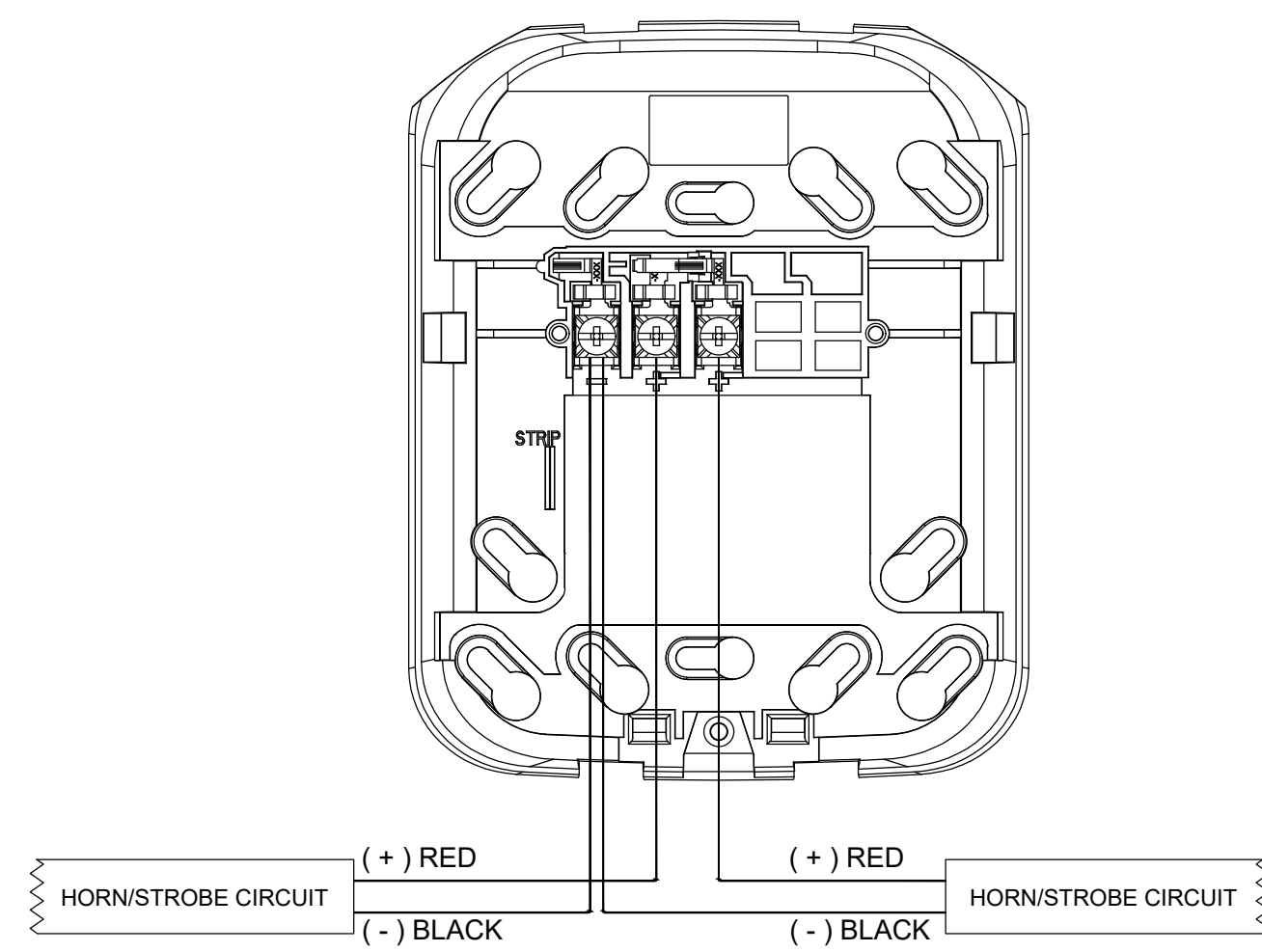
PULL STATION



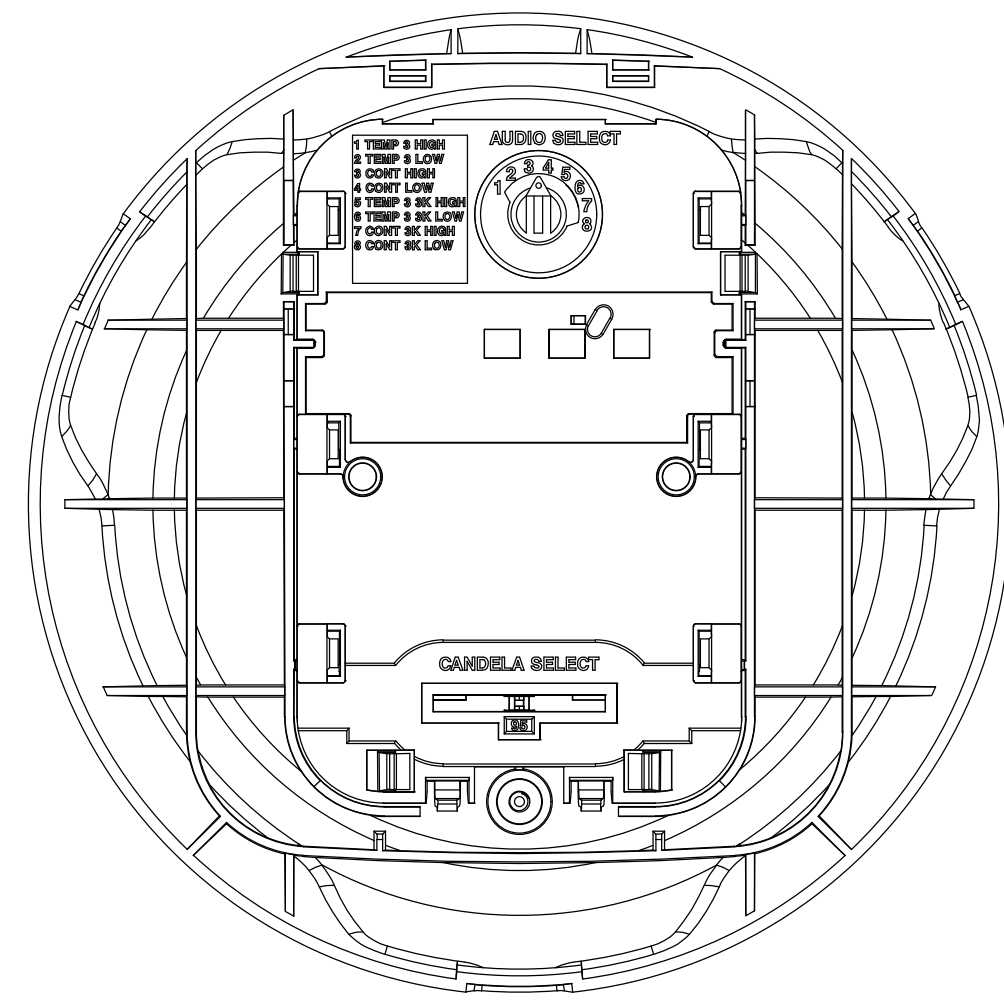
SMOKE DETECTOR



HORN/STROBE



BACKPLATE



DEVICE

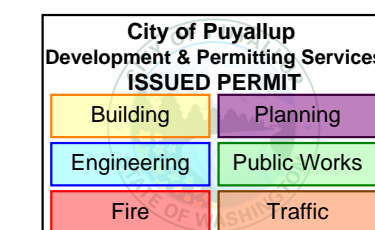


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BUILDING A

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REVISIONS:

(2026-05-08)
INITIAL SET



SHEET NUMBER: EF0.03

SHEET TITLE:

DEVICE DETAILS

PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058



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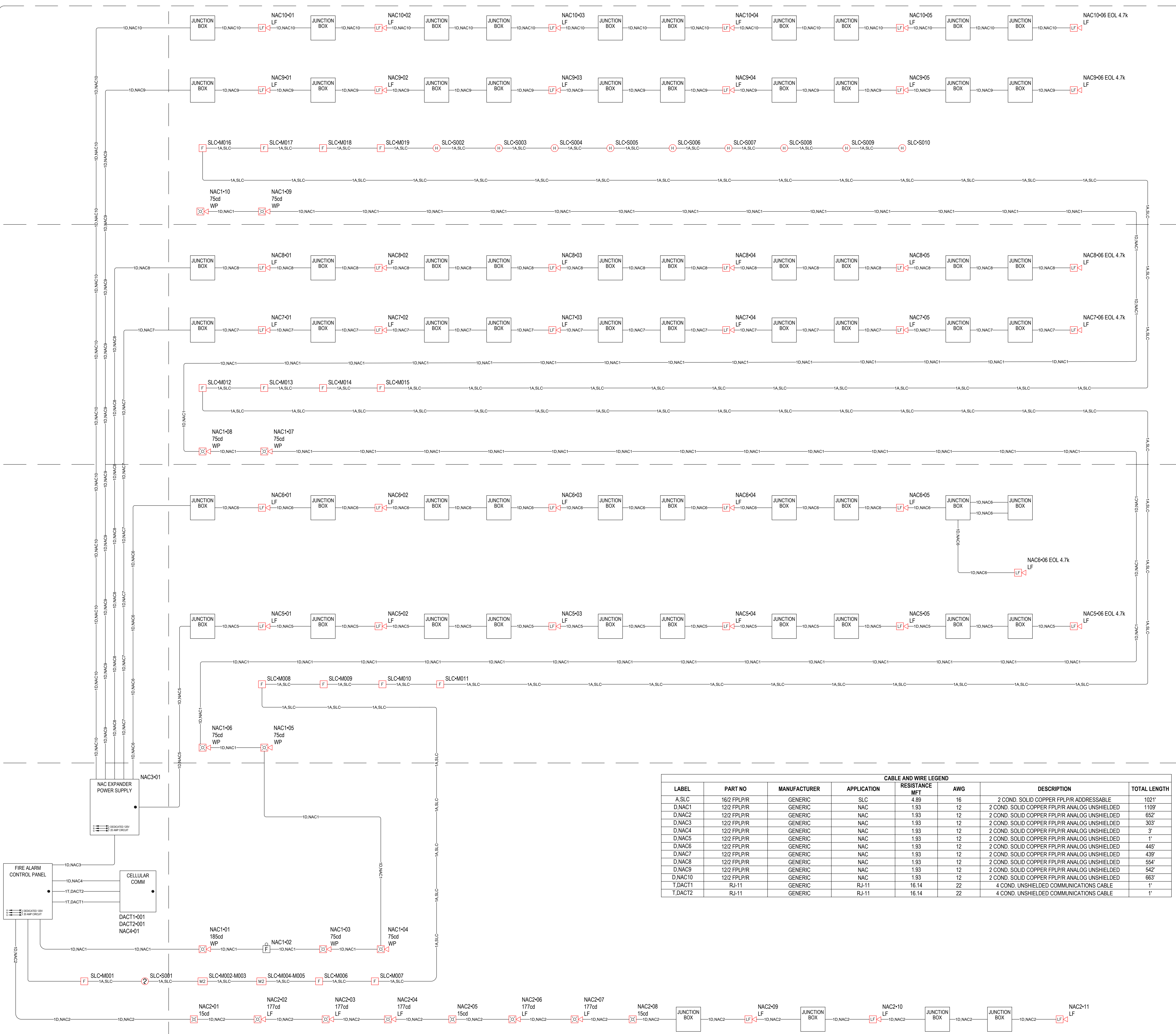
SHEET NUMBER: EF1.01

SHEET TITLE:
ONE-LINE
RISER DIAGRAM

PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058



CABLE AND WIRE LEGEND

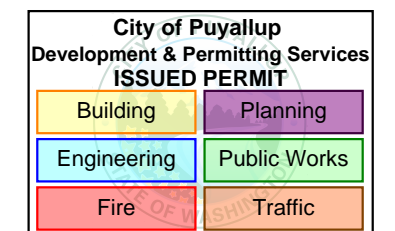
LABEL	PART NO	MANUFACTURER	APPLICATION	RESISTANCE MFT	AWG	DESCRIPTION	TOTAL LENGTH
A.SLC	16/2 FPLPIR	GENERIC	SLC	4.89	16	2 COND. SOLID COPPER FPLPIR ADDRESSABLE	1021'
D.NAC1	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	1109'
D.NAC2	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	652'
D.NAC3	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	303'
D.NAC4	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	3'
D.NAC5	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	1'
D.NAC6	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	445'
D.NAC7	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	439'
D.NAC8	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	554'
D.NAC9	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	542'
D.NAC10	12/2 FPLPIR	GENERIC	NAC	1.93	12	2 COND. SOLID COPPER FPLPIR ANALOG UNSHIELDED	663'
T.DACT1	RJ-11	GENERIC	RJ-11	16.14	22	4 COND. UNSHIELDED COMMUNICATIONS CABLE	1'
T.DACT2	RJ-11	GENERIC	RJ-11	16.14	22	4 COND. UNSHIELDED COMMUNICATIONS CABLE	1'

SLC POINTS LIST

POINT #	DEVICE TYPE	DESCRIPTION
97.S001	SMOKE DETECTOR	SPRINKLER RISER ROOM - FACP & PS1
97.S002	HEAT DETECTOR	ATTIC - NORTHWEST
97.S003	HEAT DETECTOR	ATTIC - SOUTHWEST
97.S004	HEAT DETECTOR	ATTIC - SOUTH
97.S005	HEAT DETECTOR	ATTIC - SOUTH
97.S006	HEAT DETECTOR	ATTIC - SOUTH
97.S007	HEAT DETECTOR	ATTIC - SOUTHEAST
97.S008	HEAT DETECTOR	ATTIC - NORTHEAST
97.S009	HEAT DETECTOR	ATTIC - NORTH
97.S010	HEAT DETECTOR	ATTIC - NORTH

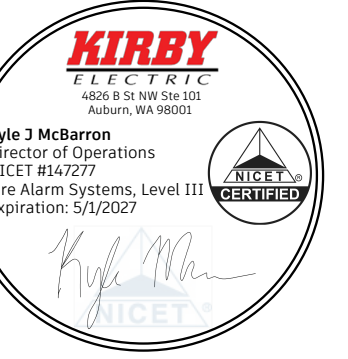
MODULES

POINT #	DEVICE TYPE	DESCRIPTION
97.M001	MANUAL PULL STATION	SPRINKLER RISER ROOM
97.M002	MANUAL PULL STATION	SPRINKLER RISER ROOM - RISER PROVISION SPARE
97.M003	DUAL INPUT MODULE	SPRINKLER RISER ROOM - RISER PROVISION SPARE
97.M004	DUAL INPUT MODULE	SPRINKLER RISER ROOM - RISER PROVISION SPARE
97.M005	DUAL INPUT MODULE	SPRINKLER RISER ROOM - RISER PROVISION SPARE
97.M006	MANUAL PULL STATION	BASEMENT - STAIR 2 - WEST
97.M007	MANUAL PULL STATION	BASEMENT - STAIR 2 - EAST
97.M008	MANUAL PULL STATION	LEVEL 1 - STAIR 2 - EAST
97.M009	MANUAL PULL STATION	LEVEL 1 - STAIR 2 - EAST
97.M010	MANUAL PULL STATION	LEVEL 1 - STAIR 2 - WEST
97.M011	MANUAL PULL STATION	LEVEL 1 - STAIR 2 - WEST
97.M012	MANUAL PULL STATION	LEVEL 2 - STAIR 2 - WEST
97.M013	MANUAL PULL STATION	LEVEL 2 - STAIR 2 - WEST
97.M014	MANUAL PULL STATION	LEVEL 2 - STAIR 2 - EAST
97.M015	MANUAL PULL STATION	LEVEL 2 - STAIR 2 - EAST
97.M016	MANUAL PULL STATION	LEVEL 3 - STAIR 2 - EAST
97.M017	MANUAL PULL STATION	LEVEL 3 - STAIR 2 - EAST
97.M018	MANUAL PULL STATION	LEVEL 3 - STAIR 2 - WEST
97.M019	MANUAL PULL STATION	LEVEL 3 - STAIR 2 - WEST





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27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374

REVISIONS:

Δ (2026-05-08) INITIAL SET

SHEET NUMBER: EF2.01

SHEET TITLE: FIRE ALARM PANEL CALCULATIONS

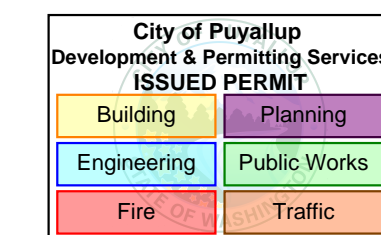
PLOT DATE: 05-08-26

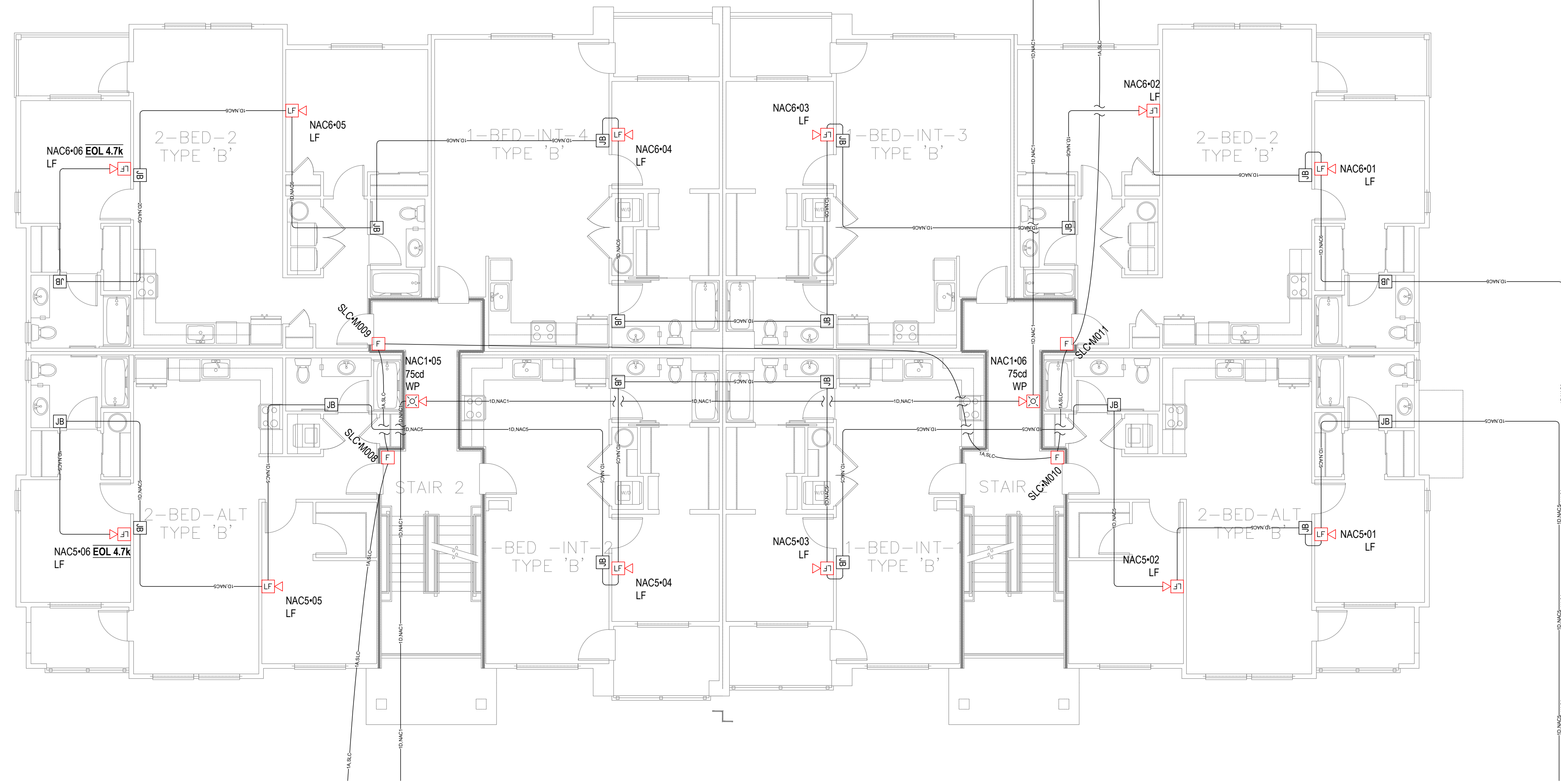
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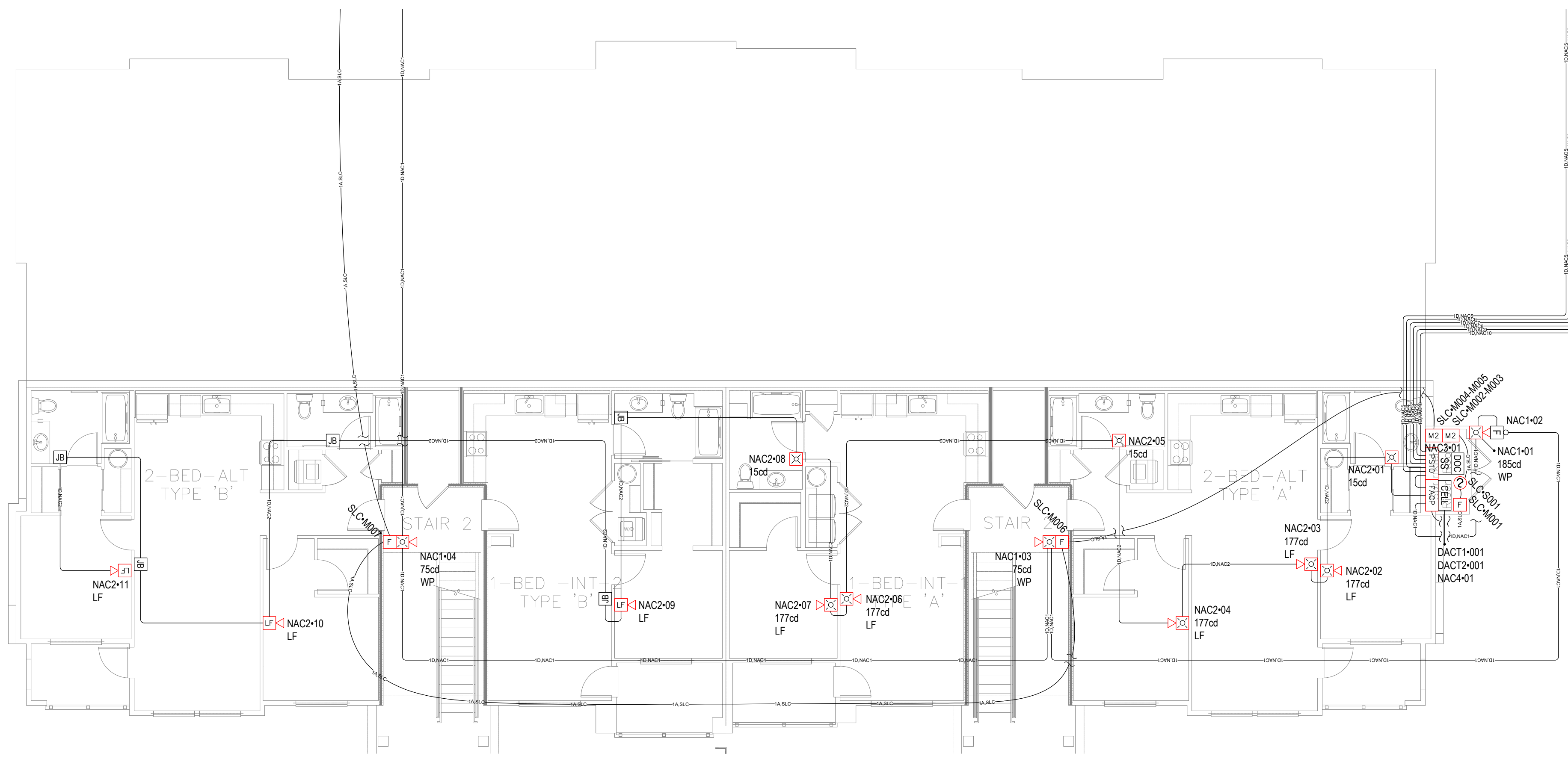
PANEL LOAD SUMMARY									STANDBY CURRENT (AMPS)		ALARM CURRENT (AMPS)		PANEL FACP (6808) SUMMARY REPORT			
PANEL COMPONENT SUMMARY				QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL						
6808 Main Board				1	6808 Main Board	Main Board	1 x 0.19	= 0.19	1 x 0.25	= 0.25						
CIRCUIT SUMMARY				CIRCUIT												
						DACT1	1 x 0	= 0	1 x 0	= 0						
						DACT2	1 x 0	= 0	1 x 0	= 0						
						NAC1	1 x 0	= 0	1 x 0.9395	= 0.9395						
						NAC2	1 x 0	= 0	1 x 2.177	= 2.177						
						NAC3	1 x 0.014	= 0.014	1 x 0.014	= 0.014						
						NAC4	1 x 0.06	= 0.06	1 x 0.2	= 0.2						
						SLC	1 x 0.00875	= 0.00875	1 x 0.05175	= 0.05175						
						TOTAL STANDBY CURRENT	0.27275		TOTAL ALARM CURRENT	3.63225						
CIRCUIT DETAILS AND CALCULATIONS									STANDBY CURRENT		ALARM CURRENT		POINT-TO-POINT VOLTAGE DROP CALCULATION SUMMARY			
SOURCE	CIRCUIT	AWG	SYMBOL	QTY	PART NO	DEVICE SETTING	CIRCUIT LENGTH	CIRCUIT RESISTANCE (Ω/ft)	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	STARTING CALCULATION VOLTAGE	END OF LINE VOLTAGE	VOLTAGE DROP	
6808 Main Board	NAC1	12		8	P2GRKLED	75cd	1109'	0.00193	8 x 0	= 0	8 x 0.087	= 0.696	20.4v	19.22v	1.18v	
				1	P2GRKLED	185cd			1 x 0	= 0	1 x 0.19	= 0.19				
				1	SSM24-10				1 x 0	= 0	1 x 0.0535	= 0.0535				
	NAC2	12		3	HW-LF		393'	0.00193	3 x 0	= 0	3 x 0.166	= 0.498	20.4v	19.54v	0.86v	
				5	P2WH-LF	177cd			5 x 0	= 0	5 x 0.325	= 1.625				
				3	SWLED	15cd			3 x 0	= 0	3 x 0.018	= 0.054				
	NAC3	12		1	HPF-PS10		3'	0.00193	1 x 0.014	= 0.014	1 x 0.014	= 0.014	20.4v	20.4v	0v	
	NAC4	12		1	HW-AV-LTE-M		0'	0.00193	1 x 0.06	= 0.06	1 x 0.2	= 0.2	20.4v	20.4v	0v	
	SLC	16		2	SK-MONITOR-2		2950'	0.00489	2 x 0.00075	= 0.0015	2 x 0.00075	= 0.0015				
				15	SK-PULL-DA				15 x 0.00035	= 0.00525	15 x 0.00035	= 0.00525				
			9	SS-HEAT w/B300-6		9 x 0.0002			= 0.0018	9 x 0.0045	= 0.0405					
			1	SS-PHOTO w/B300-6		1 x 0.0002			= 0.0002	1 x 0.0045	= 0.0045					
SECONDARY POWER SOURCE REQUIREMENTS																
									REQUIRED STANDBY TIME = 24 HOURS							
									REQUIRED ALARM TIME = 5 MINUTES							
									SECONDARY STANDBY LOAD	0.27275	x 24	= 6.55 AH	PROVIDE (2) 12V 24AH BATTERIES @ 24VDC			
									SECONDARY ALARM LOAD	3.63225	x 0.08	= 0.3 AH				
									STANDBY AND ALARM LOAD SUBTOTAL			6.85 AH				
									DERATING FACTOR			x 1.25				
									SECONDARY LOAD REQUIREMENTS (AMP HOURS)			8.56 AH				

PANEL LOAD SUMMARY									STANDBY CURRENT (AMPS)		ALARM CURRENT (AMPS)		PANEL PS10 (HPF-PS10) SUMMARY REPORT PANEL POWER SUPPLY MAX CURRENT = 10A TOTAL USED CAPACITY = 6.161A (61.61%)			
PANEL COMPONENT SUMMARY				QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL						
HPF-PS10 MAIN BOARD				1	HPF-PS10 MAIN BOARD	Fire Alarm Power Supply Main Board	1 x 0.156	= 0.156	1 x 0.185	= 0.185						
CIRCUIT SUMMARY				CIRCUIT												
						NAC10	1 x 0	= 0	1 x 0.996	= 0.996						
						NAC5	1 x 0	= 0	1 x 0.996	= 0.996						
						NAC6	1 x 0	= 0	1 x 0.996	= 0.996						
						NAC7	1 x 0	= 0	1 x 0.996	= 0.996						
						NAC8	1 x 0	= 0	1 x 0.996	= 0.996						
						NAC9	1 x 0	= 0	1 x 0.996	= 0.996						
						TOTAL STANDBY CURRENT	0.156		TOTAL ALARM CURRENT	6.161						
CIRCUIT DETAILS AND CALCULATIONS									STANDBY CURRENT		ALARM CURRENT		POINT-TO-POINT VOLTAGE DROP CALCULATION SUMMARY			
SOURCE	CIRCUIT	AWG	SYMBOL	QTY	PART NO	DEVICE SETTING	CIRCUIT LENGTH	CIRCUIT RESISTANCE (Ω/ft)	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	STARTING CALCULATION VOLTAGE	END OF LINE VOLTAGE	VOLTAGE DROP	
HPF-PS10 MAIN BOARD	NAC10	12		6	HW-LF		652'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	18.42v	1.98v	
	NAC5	12		6	HW-LF		445'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	19.27v	1.13v	
	NAC6	12		6	HW-LF		436'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	19.26v	1.14v	
	NAC7	12		6	HW-LF		554'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	18.85v	1.55v	
	NAC8	12		6	HW-LF		542'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	18.84v	1.56v	
	NAC9	12		6	HW-LF		663'	0.00193	6 x 0	= 0	6 x 0.166	= 0.996	20.4v	18.43v	1.97v	
SECONDARY POWER SOURCE REQUIREMENTS																
									REQUIRED STANDBY TIME = 24 HOURS							
									REQUIRED ALARM TIME = 5 MINUTES							
									SECONDARY STANDBY LOAD	0.156	x 24	= 3.74 AH	PROVIDE (2) 12V 7AH BATTERIES @ 24VDC			
									SECONDARY ALARM LOAD	6.161	x 0.08	= 0.51 AH				
									STANDBY AND ALARM LOAD SUBTOTAL			4.26 AH				
									DERATING FACTOR			x 1.25				
									SECONDARY LOAD REQUIREMENTS (AMP HOURS)			5.32 AH				





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



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

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



BRADLEY HEIGHTS
BUILDING A
27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374

REVISIONS:
A (2026-05-08)
INITIAL SET

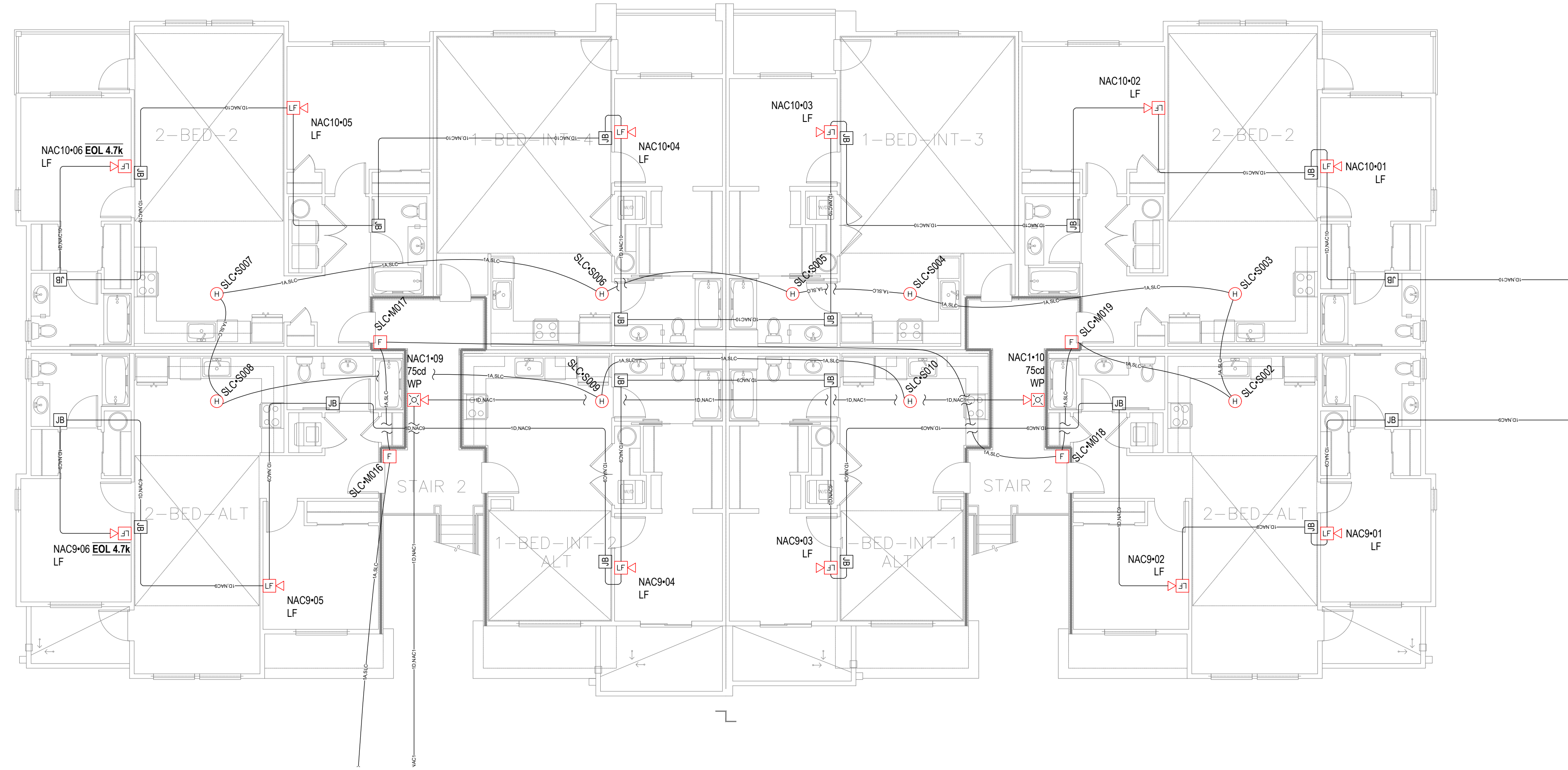
SHEET NUMBER: EFO.01

SHEET TITLE:
BASEMENT &
LEVEL 1 FIRE
ALARM PLAN

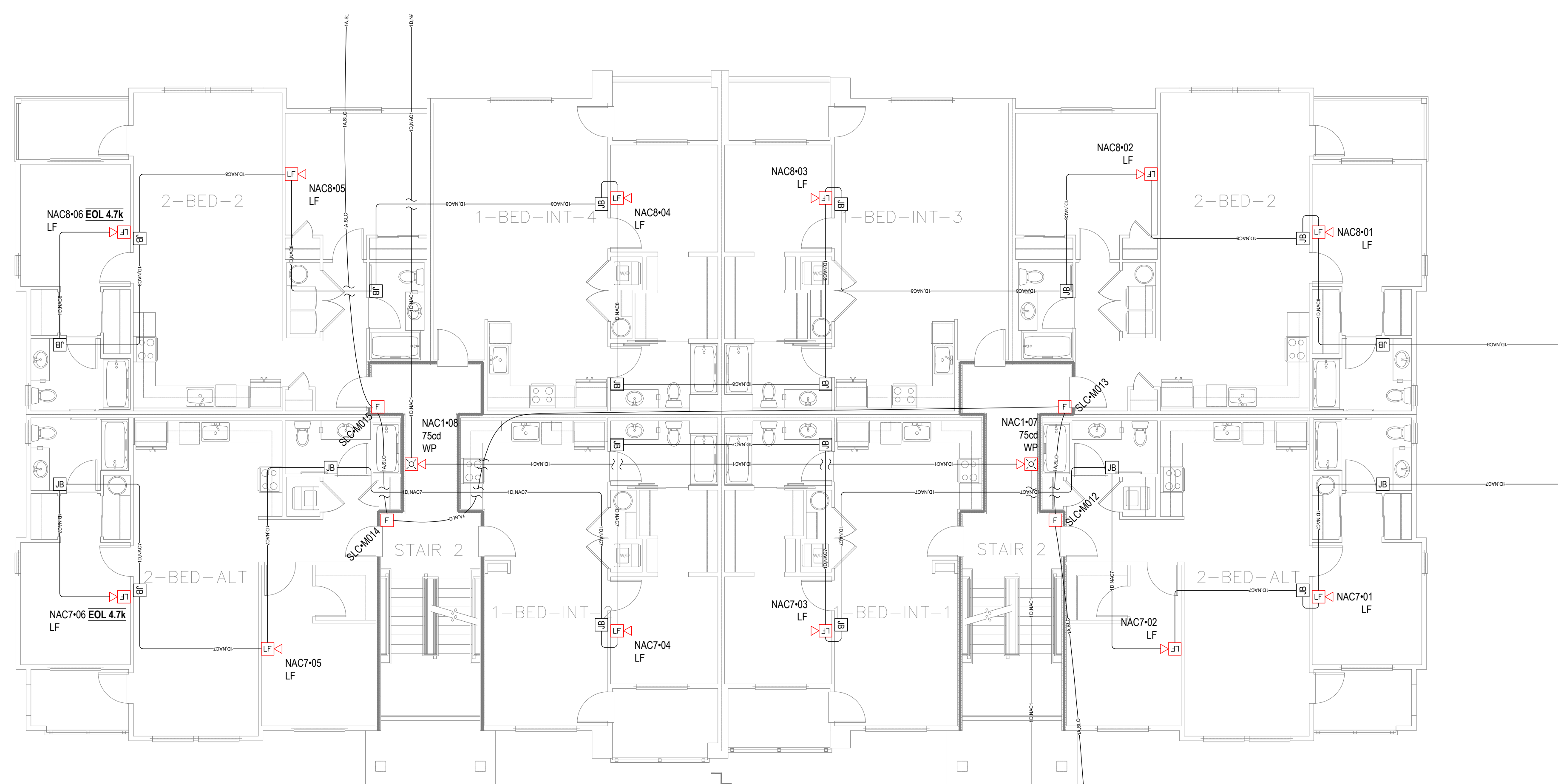
PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058



1 LEVEL 3 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



1 LEVEL 2 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

City of Puyallup
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Fire	Traffic



**BRADLEY HEIGHTS
BUILDING A**
27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374

REVISIONS:
A (2026-05-08)
INITIAL SET

SHEET NUMBER: EF3.02

SHEET TITLE:
LEVEL 2 & 3
FIRE ALARM
PLAN

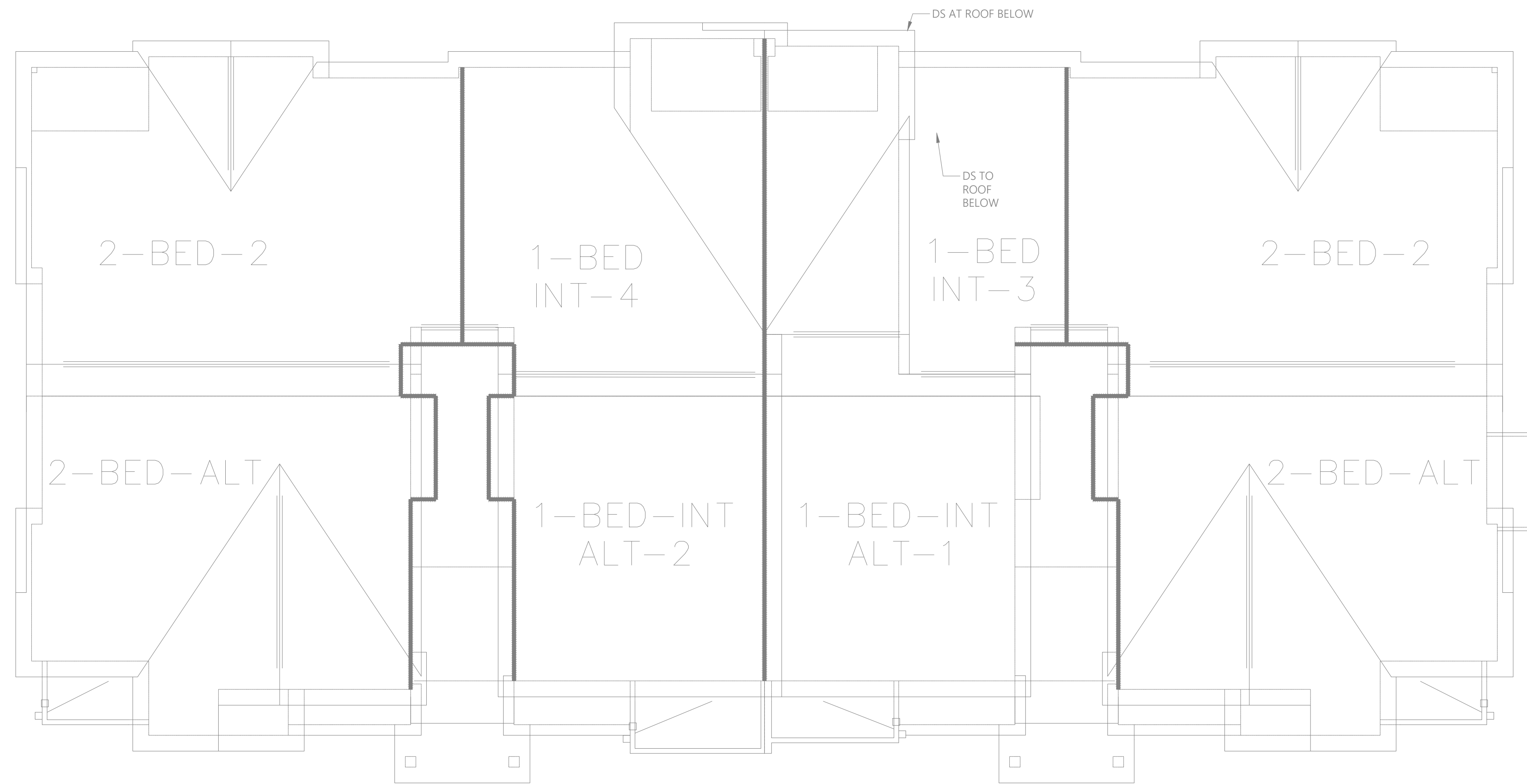
PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058



**BRADLEY HEIGHTS
 BUILDING A**
 27TH AVE SE AND 5TH ST SE, PUYALLUP, WA 98374



City of Puyallup
 Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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

REVISIONS:
 (2026-05-08)
 INITIAL SET

SHEET NUMBER: EF3.03

SHEET TITLE:
 ROOF FIRE
 ALARM PLAN

PLOT DATE: 05-08-26

DESIGNED BY: D.S.K.

JOB NUMBER: 25-058