

WA STATE FAIR INTERNATIONAL VILLAGE

FIRE ALARM SYSTEM

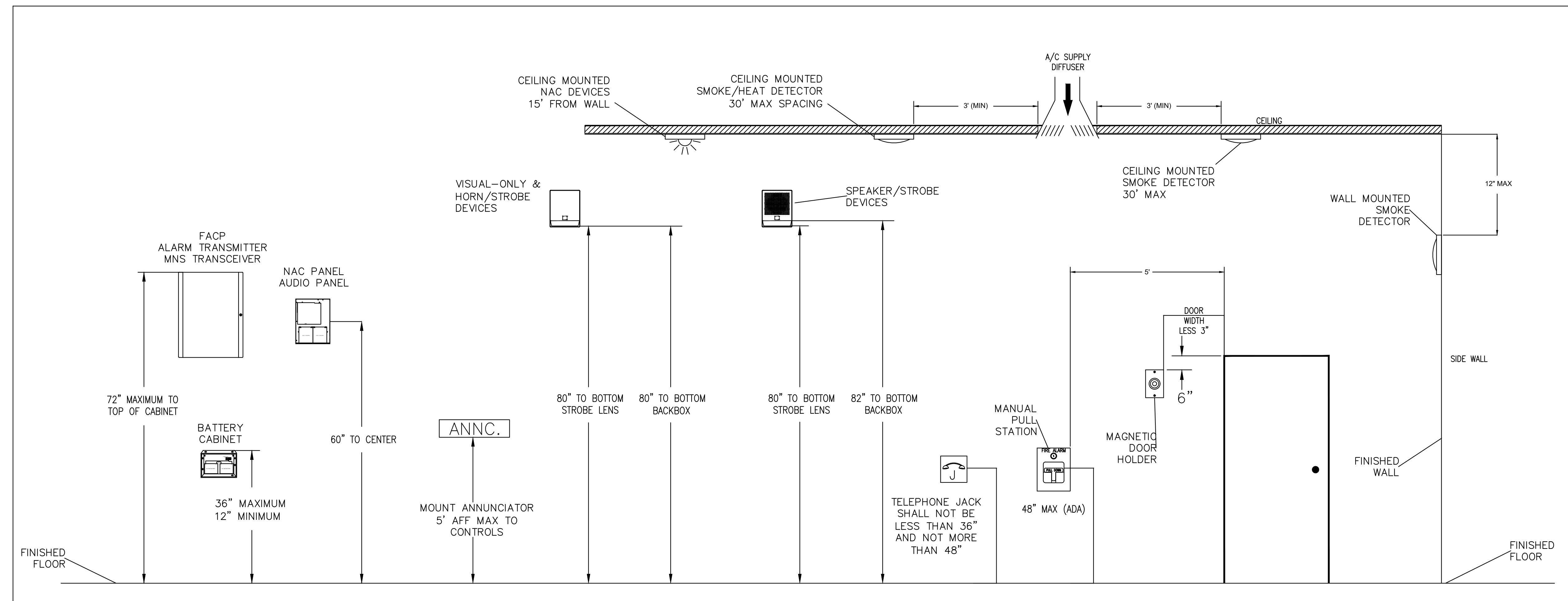
110 9TH AVENUE SW, PUYALLUP, WA 98371

SHEET INDEX		MONITORING COMPANY		SYMBOLS LEGEND																																																																										
SHEET #	SHEET TITLE	⚠️ (NWAMS) Northwest Alarm Monitoring Services 1743 1ST AVE. S., SEATTLE, WA 98134 1-(800) 826-9503																																																																												
FA-01	SYSTEM INFORMATION																																																																													
FA-02	TYPICAL WIRING DETAILS & DEVICE MOUNTING HEIGHTS																																																																													
FA-03	⚠️ FACP, COM & NAC1 WIRING DETAILS	GENERAL NOTES		⚠️																																																																										
FA-04A	FIRE ALARM SYSTEM CALCULATIONS	FOR SILENT KNIGHT SYSTEM: DO NOT INSTALL ADDRESSABLE INITIATING DEVICES UNTIL PREPROGRAMMED WITH DEVICES ADDRESS.																																																																												
FA-04B	SEQUENCE OF OPERATIONS MATRIX	1. NUMBERS ADJACENT TO DEVICE SYMBOL DENOTE DEVICE CIRCUIT/ADDRESS DEVICE 01-1-02 WOULD BE THE SECOND DEVICE ON ADDRESSABLE LOOP 1.																																																																												
FA-05	1ST FLOOR FIRE ALARM LAYOUT	2. DETECTOR AND AUDIBLE CIRCUIT POLARITY SHALL BE OBSERVED.																																																																												
FA-06	2ND FLOOR FIRE ALARM LAYOUT	3. AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL BRANCHING IS PERMISSIBLE.																																																																												
FA-07	RISER DIAGRAM	4. INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE NATIONAL ELECTRIC CODE, NFPA 72, LOCAL CODE(S), AND/OR AUTHORITY HAVING JURISDICTION.																																																																												
		5. INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGERS, STANDARD BOXES, FIBER OPTICS CABLE, FITTINGS, AND ASSOCIATED EQUIPMENT) ARE NOT SUPPLIED BY SIEMENS CERBERUS DIVISION.																																																																												
		6. DETECTORS SHALL NOT BE MOUNTED IN DIRECT AIR STREAM OF AIR SUPPLY OUTLETS. PER NFPA 72, 2-3.5.1																																																																												
		7. WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR SIZE & OR CABLE TRAY TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE PERMANENTLY AND UNIQUELY MARKED FOR FUTURE IDENTIFICATION.		⚠️																																																																										
		8. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.																																																																												
		9. FOR ADDITIONAL INSTALLATION INSTRUCTIONS, REFER TO CATALOG CUT SHEETS AND/OR INSTALLATION INSTRUCTIONS.																																																																												
		10. THE 120vac POWER ELECTRICAL WORK SUPPLYING FIRE ALARM SYSTEM PANELS MUST COMPLY WITH ARTICLE 725 AND 760 OF NFPA 70, N.E.C. AND NFPA 72, SPECIFICALLY SECTION 1-5.2.5.2; IN REFERENCE TO DEDICATED BRANCH POWER SOURCES. 120vac POWER SHALL NOT BE APPLIED TO FIRE ALARM PANEL WITHOUT DIRECT SUPERVISION OF FIRE ALARM TECHNICIAN.																																																																												
		11. ALL PANEL NUMBERS AND CIRCUITS WILL BE ON THE RECORD DRAWINGS SET.																																																																												
		12. ALL 120VAC CIRCUITS ARE FROM DEDICATED CIRCUITS FROM THE EMERGENCY GENERATOR.																																																																												
		13. PER NFPA 72, SECTION 5-3.6.1.3 DETECTORS SHALL NOT BE INSTALLED UNTIL AFTER THE CONSTRUCTION CLEAN-UP OF ALL TRADES IS COMPLETE AND FINAL. EXCEPTION: WHERE REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR PROTECTION DURING CONSTRUCTION. DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO FINAL CLEAN-UP BY ALL TRADES SHALL BE CLEANED OR REPLACED IN ACCORDANCE WITH NFPA 72, CHAPTER 7.																																																																												
		14. WIRING SHALL RUN CONTINUOUS FROM FACP TO FIRST DEVICE ON A CIRCUIT AND THEN FROM DEVICE TO DEVICE WITHOUT SPLICING IN PULL BOXES OR OTHER BACK BOXES OF DIFFERENT CIRCUITS.																																																																												
		15. ALL WIRING SHALL BE METERED, VERIFIED TO BE CONTINUOUS, FREE OF GROUND AND FREE OF SHORTS BETWEEN CONDUCTORS AND OTHER CIRCUITS PRIOR TO FINAL EQUIPMENT TRIM.																																																																												
		16. ALL CABLES SHALL BE MARKED AS INDICATED ON FIRE ALARM RISER WITH A PERMANENT LABEL AT ALL DEVICES, JUNCTION BOXES AND FACP.																																																																												
		17. THE ELECTRICAL CONTRACTOR SHALL CLEAN ALL DIRT AND DEBRIS FROM THE OUTSIDE AND INSIDE OF THE FIRE ALARM BACK BOXES AND JUNCTION BOXES AFTER COMPLETION OF THEIR INSTALLATION.																																																																												
		18. DETECTORS MUST BE RATED FOR TEMPERATURE IN THE ENVIRONMENT IN WHICH IT IS LOCATED.																																																																												
		19. ALL WIRING BETWEEN FLOORS SHALL BE LOCATED IN CONDUIT.																																																																												
		20. NFPA 72, 6.4.2.2.2 ALL STYLES OF CLASS A CIRCUITS USING 22. PHYSICAL CONDUCTORS (E.G., METALLIC, OPTICAL FIBER) SHALL BE INSTALLED SUCH THAT THE OUTGOING AND RETURN CONDUCTORS, EXITING FROM AND RETURNING TO THE CONTROL UNIT, RESPECTIVELY, ARE ROUTED SEPARATELY. THE OUTGOING AND RETURN (REDUNDANT) CIRCUIT CONDUCTORS SHALL NOT BE RUN IN THE SAME CABLE ASSEMBLY (I.E., MULTI-CONDUCTOR CABLE), ENCLOSURE, OR RACEWAY.																																																																												
		21. NFPA 72, A.6.4.2.2.2 A GOAL OF 6.4.2.2.2 IS TO PROVIDE ADEQUATE SEPARATION BETWEEN THE OUTGOING AND RETURN CABLES. THIS SEPARATION IS REQUIRED TO HELP ENSURE PROTECTION OF THE CABLES FROM PHYSICAL DAMAGE. THE RECOMMENDED MINIMUM SEPARATION TO PREVENT PHYSICAL DAMAGE IS 305 MM (1 FT) WHERE THE CABLE IS INSTALLED VERTICALLY AND 1.22 M (4 FT) WHERE THE CABLE IS INSTALLED																																																																												
		22. LOCKOUT SHALL BE INSTALLED ON THE MAIN POWER DISCONNECT CIRCUIT BREAKER. NFPA 72, 10.6.5.4																																																																												
		23. THE MAIN POWER DISCONNECT CIRCUIT BREAKER SHALL HAVE A RED MARKING. NFPA 72, 10.6.2.3																																																																												
		24. PER IFC 509-1 MOUNT A FIRE ALARM CONTROL PANEL SIGN WITH 2 INCH WHITE LETTERS ON A RED BACKGROUND LOCATED ON THE OUTSIDE OF THE DOOR LEADING TO THE FIRE PANEL LOCATION.																																																																												
SCOPE OF WORK																																																																														
TYPE OF WORK: BUILDING FIRE ALARM SYSTEM NEW FIRE ALARM SYSTEM																																																																														
CODE ANALYSIS																																																																														
OCCUPANCY TYPE: 'A-2" ASSEMBLY TYPE OF CONSTRUCTION: II-B BUILDING IS FULLY SPRINKLERED NUMBER OF STORIES: 2 + ROOF TOP		APPLICATION CODES: 2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL MECHANICAL CODE (IMC) 2021 INTERNATIONAL FIRE CODE (IFC) 2021 UNIFORM PLUMBING CODE (UPC) 2021 NATIONAL ELECTRICAL CODE (NEC) 2021 WASHINGTON STATE ENERGY CODE (WSEC)																																																																												
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NOTE: WILL UTILIZE EXISTING FIRE ALARM WIRES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.																																																																														
<table><tr><th colspan="6">WIRE DESIGNATION</th></tr><tr><th>SYMBOL</th><th>DESCRIPTION</th><th>NUMBER OF CONDUCTORS</th><th>SIZE</th><th>TYPE</th><th>COLOR CODE</th></tr><tr><td>D</td><td>DATA ADDRESSABLE LOOP</td><td>TWISTED PAIR WITH SHIELD</td><td>#16</td><td>FPL/FPLR</td><td>RED (JACKET)</td></tr><tr><td>I</td><td>INITIATION CIRCUIT</td><td>TWO</td><td>#16</td><td>FPL/FPLR</td><td>RED (JACKET)</td></tr><tr><td>S</td><td>STROBE CIRCUIT</td><td>TWO</td><td>#14</td><td>FPL/FPLR</td><td>RED (JACKET)</td></tr><tr><td>T</td><td>POWER SUPPLY TRIGGER</td><td>TWO</td><td>#14</td><td>FPL/FPLR</td><td>RED (JACKET)</td></tr></table>		WIRE DESIGNATION						SYMBOL	DESCRIPTION	NUMBER OF CONDUCTORS	SIZE	TYPE	COLOR CODE	D	DATA ADDRESSABLE LOOP	TWISTED PAIR WITH SHIELD	#16	FPL/FPLR	RED (JACKET)	I	INITIATION CIRCUIT	TWO	#16	FPL/FPLR	RED (JACKET)	S	STROBE CIRCUIT	TWO	#14	FPL/FPLR	RED (JACKET)	T	POWER SUPPLY TRIGGER	TWO	#14	FPL/FPLR	RED (JACKET)	<table><tr><th colspan="2">DEVICE ADDRESSING</th><th colspan="2">MISC. ABBREVIATIONS</th></tr><tr><th>DEVICE ADDRESS</th><th>DESCRIPTION</th><th>MISC.</th><th>DESCRIPTION</th></tr><tr><td>X-XXX (SLC ADDRESSABLE DEVICE)</td><td>X= LOOP# XXX = DEVICE#</td><td>E</td><td>EXISTING TO REMAIN</td></tr><tr><td>SX-X-X (NAC ADDRESS)</td><td>SX= BPS# X=CIRCUIT# X=DEVICE#</td><td>ER</td><td>EXISTING RELOCATED TO REMAIN</td></tr><tr><td>#cd (CANDELA)</td><td>#=VISUAL CANDELA RATING</td><td>DEMO</td><td>EXISTING DEVICE TO BE REMOVED</td></tr><tr><td>VX-X (SPEAKER ADDRESS)</td><td>VX= AMP CIRCUIT# X=DEVICE#</td><td>T.B.D</td><td>TO BE DETERMINED</td></tr><tr><td>#W (WATTS)</td><td>#=SPEAKER TAP SETTING</td><td>A.F.F</td><td>ABOVE FINISHED FLOOR</td></tr><tr><td></td><td></td><td>F.B.O</td><td>FURNISHED BY OTHERS</td></tr></table>		DEVICE ADDRESSING		MISC. ABBREVIATIONS		DEVICE ADDRESS	DESCRIPTION	MISC.	DESCRIPTION	X-XXX (SLC ADDRESSABLE DEVICE)	X= LOOP# XXX = DEVICE#	E	EXISTING TO REMAIN	SX-X-X (NAC ADDRESS)	SX= BPS# X=CIRCUIT# X=DEVICE#	ER	EXISTING RELOCATED TO REMAIN	#cd (CANDELA)	#=VISUAL CANDELA RATING	DEMO	EXISTING DEVICE TO BE REMOVED	VX-X (SPEAKER ADDRESS)	VX= AMP CIRCUIT# X=DEVICE#	T.B.D	TO BE DETERMINED	#W (WATTS)	#=SPEAKER TAP SETTING	A.F.F	ABOVE FINISHED FLOOR			F.B.O	FURNISHED BY OTHERS							
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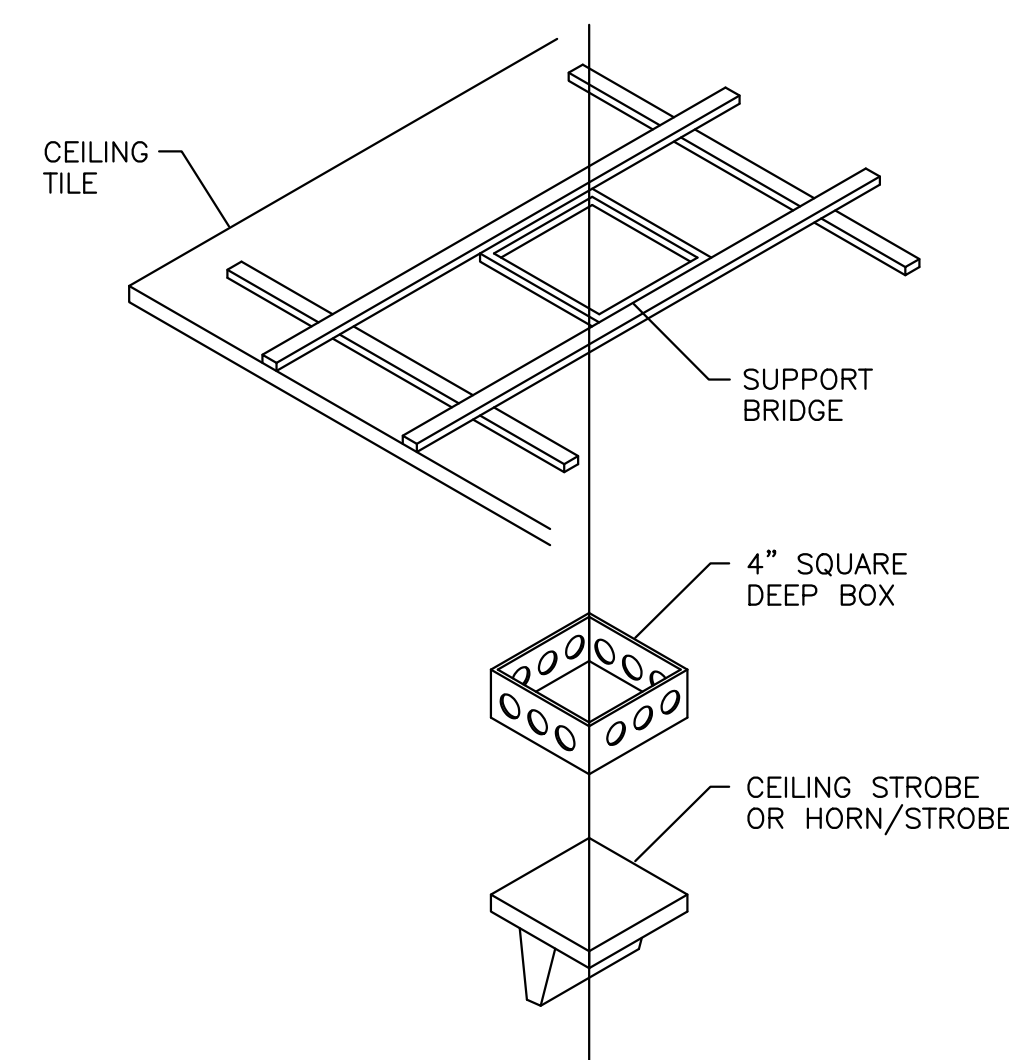
RELEASE/REVISIONS		REV. BY:	SYB	TAM
NO	DATE	DESCRIPTION	SHOP DRAWINGS	REVISED PER EC COMMENTS
1	03/26/25			
2	05/08/25			

WA STATE FAIR INTERNATIONAL VILLAGE FIRE ALARM SYSTEM 110 9TH AVENUE SW PUYALLUP, WA 98371	SYSTEM INFORMATION
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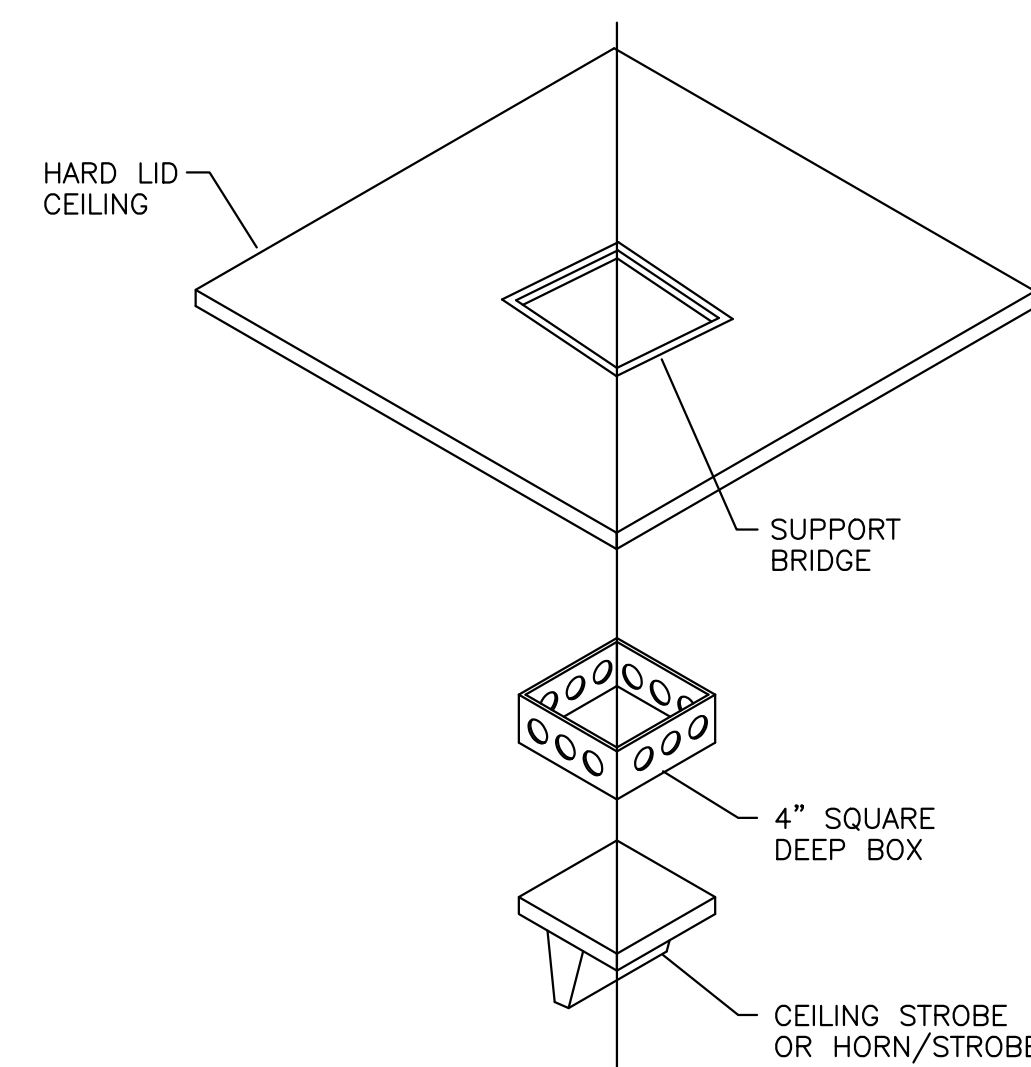
SCALE: AS NOTED DESIGNED BY: M. WADE DRAWN/DESIGNED BY: S. BURNAM CHECKED BY: T. MUHAMMAD DATE: 03/26/25 JOB NUMBER: 79018-1 SHEET FA-01
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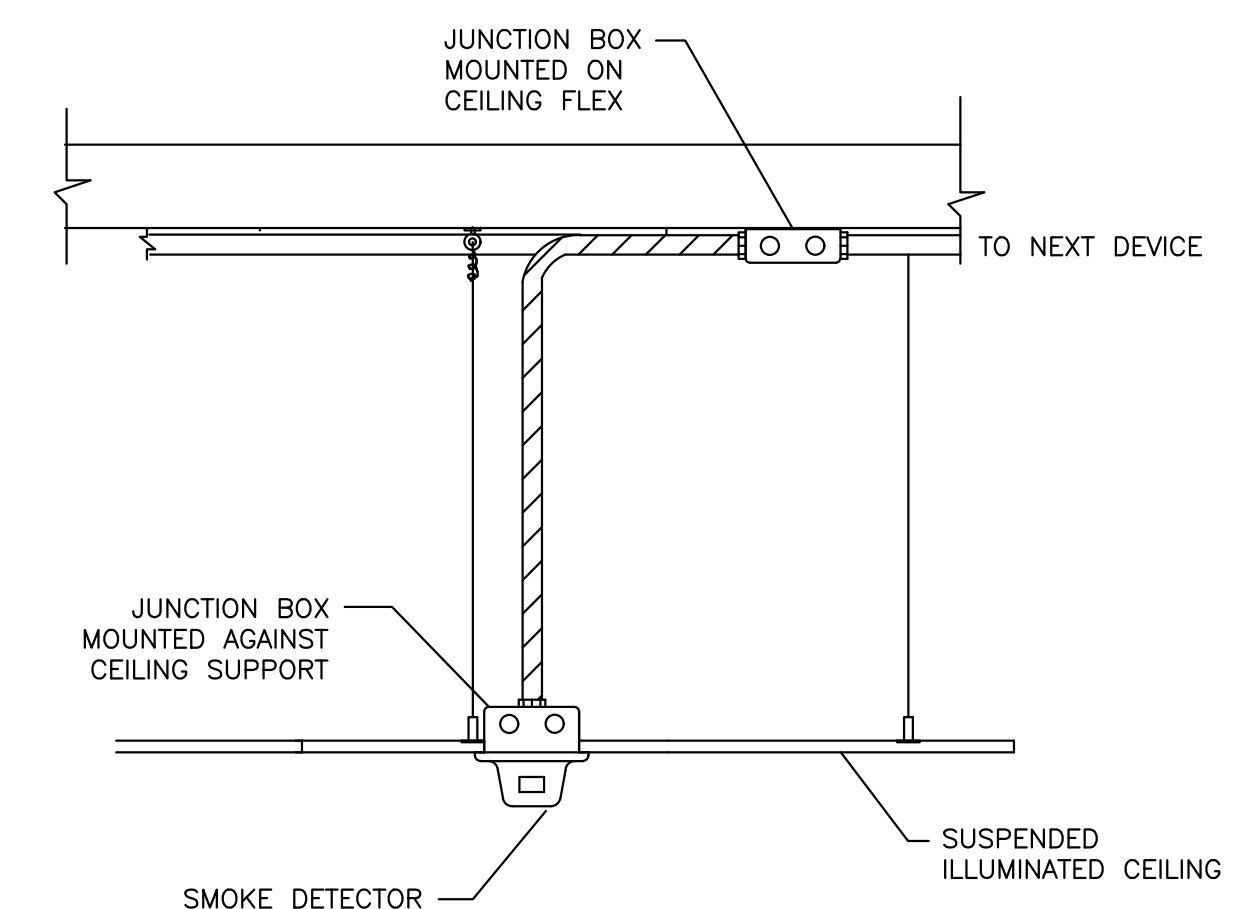
TYPICAL DEVICE MOUNTING HEIGHTS



HORN/STROBE MOUNTING (DROP CEILING)



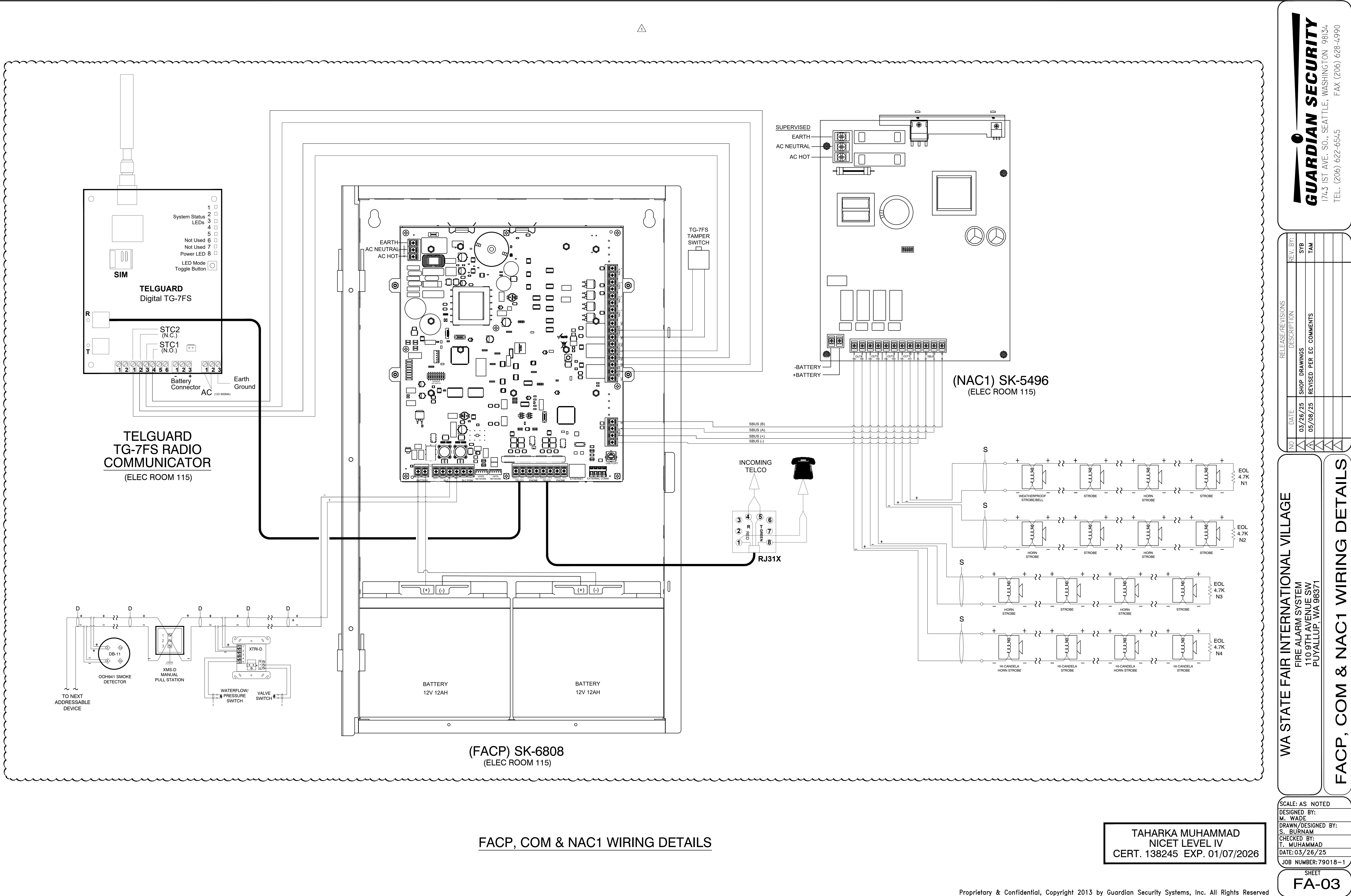
HORN/STROBE MOUNTING (HARD LID)



SMOKE DETECTOR MOUNTING DETAIL

TAHARKA MUHAMMAD
NICET LEVEL IV
CERT. 138245 EXP. 01/07/2026

NO	DATE	RELEASE/REVISIONS		
		DESCRIPTION	REV. BY:	SYB
1	03/26/25	SHOP DRAWINGS	SYB	TAM
2	05/08/25	REVISED PER EC COMMENTS		
3				
4				
5				



FACP CALCULATIONS

		IntelliKnight 6808 Battery Calculation									
		Secondary Power Source Requirements									
		Standby Current (amps)					Secondary Alarm Current (amps)				
Device Type		Qty		Current Draw		Total	Qty		Current Draw		Total
1. Control Panel											
6808 Control Panel		1	x	0.190000	=	0.190000	1	x	0.250000	=	0.250000
2. Addressable SLC Devices											
SK-PHOTO (-T)		36	x	0.000300	=	0.010800	36	x	0.000300	=	0.010800
SK-MONITOR		11	x	0.000375	=	0.004125	11	x	0.000375	=	0.004125
SK-PULL-SA		10	x	0.000375	=	0.003750	10	x	0.000375	=	0.003750
SK-MONITOR-2		2	x	0.000750	=	0.001500	2	x	0.000750	=	0.001500
SK-RELAYMON-2		11	x	0.001300	=	0.014300	11	x	0.024000	=	0.264000
6. Accessory Modules											
5496		1	x	0.010000	=	0.010000	1	x	0.010000	=	0.010000
8. Notification Appliance Circuits											
NAC 1				0.000000	=				0.280000	=	0.280000
Total Standby Load						0.234475	Total Alarm Load				0.824175

	IntelliKnight 6808 Battery Calculation										
	Note 1: You are fully responsible for verifying these calculations.										
	Note 2: Use the dropdowns in the yellow cells to enter values.										
Calculation in Total Sheet											
						Required Standby Time in Hours					
						24 Hours					
Standby Load Current		0.23448 Amps		x	24	=	5.627 AH				
						Required Alarm Time in Minutes					
						5 Minutes					
Alarm Load Current (Amps)		0.82418 Amps		x	0.084	=	0.069 AH				
						Total Current Load		5.697 AH			
					Multiply by the Derating Factor		1.2	=	x 1.20		
								Total Ampere Hours Required		6.84 AH	
Recommended Batteries:						BAT-1270 - 7AH Batteries					

IntelliKnight 6808 Circuit Detail										
NAC 1										
Device	Qty	Non-Alarm Draw	Total	Qty	Alarm Draw	Total				
WP WALL Horn/Strobe LED(75cd)	1	x	0.000000	=	0.000000	1	x	0.087000	=	0.087000
P2/PC2 Horn/Strobe LED(15cd)	2	x	0.000000	=	0.000000	2	x	0.035000	=	0.070000
SW Strobe LED(15cd)	2	x	0.000000	=	0.000000	2	x	0.018000	=	0.036000
WP CEILING Horn/Strobe LED(75cd)	1	x	0.000000	=	0.000000	1	x	0.087000	=	0.087000
Total Standby Load			0.000000	Total Alarm Load			0.280000			

		IntelliKnight 6808 EOL Voltage Drop					
Starting Voltage	20.4 Volts						
Minimum Voltage @ EOL	16 Volts						
Voltage Drop Warning %	10.00%						
	Current Draw	Wire Type	Resistance	Length	Actual Resistance	Voltage @ EOL	Percent Drop
Circuit Name	Amps	AWG	Ohms/1000 ft.	Feet (One Way)	Ohms	Volts	Percent
NAC 1	0.280	#14 Solid	3.07	900	5.53	18.85	7.58%

*** (12V 12AH BATTERIES PROVIDED) ***

(NAC1) POWER SUPPLY CALCULATIONS

5496 Power Expander Calculations
Version 02.24.09

Global Project Values:

Project Name: WA State Fair Int Village
Project ID: 79018-1
Prepared By: GUARDIAN SECURITY
Date: 3/21/2025

Standby Hours: 24
Alarm Mins: 5
Derating Factor: 1.2
Voltage Drop Warning Threshold %: 20

Panel ID: NAC1
Location: ELEC RM 115, 1ST FL

Model: 5496 Power Expander
Volts: 24 VDC

Max NAC Current: 3.0 Amps
Max Panel Current: 6.0 Amps

Part.#	Description	Qty	Current Draw Standby	Current Draw Alarm	Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop						
5496	5496 Pwr Module	1	0.040	0.160												
NAC #1	Notification Appl Circuit	cfg.	0.000	0.599	#14 Solid	2.52	400	2.02	19.19	5.92%						
NAC #2	Notification Appl Circuit	cfg.	0.000	0.556	#14 Solid	2.52	550	2.77	18.86	7.56%						
NAC #3	Notification Appl Circuit	cfg.	0.000	0.560	#14 Solid	2.52	700	3.53	18.42	9.68%						
NAC #4	Notification Appl Circuit	cfg.	0.000	0.250	#14 Solid	2.52	800	4.03	19.39	4.94%						
Total Standby Current (Amps)			0.040	2.125	Total Alarm Current (Amps)											
Standby Time In Hours			24	0.083	Alarm Time In Minutes / 60		(5 Mins)									
Total Standby AH Required			0.960	0.177	Total Alarm AH Required											
Total Combined AH Required			1.14	Command Shortcuts												
Multiply By The Derating Factor			1.20													
Minimum Battery AmpHours Required			1.36													

Configure

Circuits

Print Page

*** (12V 8AH BATTERIES PROVIDED) ***

Circuit Configuration

Print Circuits Detail

Project Information

Project Name: WA State Fair Int Village
Prepared By: GUARDIAN SECURITY

Project ID: 79018-1
Date: 3/21/2025

Ckt. Number: NAC #1
Ckt. Name: Notification Appl Circuit

Panel ID: NAC1
Use: Notification Appl Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
1	System Sensor SW Strobe LED(15cd)	0.000	0.018	0.000	0.018
2	System Sensor P2/PC2 Horn/Strobe LED(15cd)	0.000	0.035	0.000	0.070
2	System Sensor P2/PC2 Horn/Strobe LED(30cd)	0.000	0.038	0.000	0.076
3	System Sensor P2/PC2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.261
2	System Sensor WP P2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.174
		Totals		0.000	0.599

< Return To Main

Edit Device Database

Ckt. Number: NAC #2
Ckt. Name: Notification Appl Circuit

Panel ID: NAC1
Use: Notification Appl Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
3	System Sensor P2/PC2 Horn/Strobe LED(15cd)	0.000	0.035	0.000	0.105
5	System Sensor P2/PC2 Horn/Strobe LED(30cd)	0.000	0.038	0.000	0.190
3	System Sensor WP P2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.261
	Unused	0.000	0.000	0.000	0.000
		Totals		0.000	0.556

< Return To Main

Edit Device Database

Ckt. Number: NAC #3
Ckt. Name: Notification Appl Circuit

Panel ID: NAC1
Use: Notification Appl Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
1	System Sensor P2/PC2 Horn/Strobe LED(30cd)	0.000	0.038	0.000	0.038
2	System Sensor P2/PC2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.174
4	System Sensor WP P2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.348
	Unused	0.000	0.000	0.000	0.000
		Totals		0.000	0.560

< Return To Main

Edit Device Database

Ckt. Number: NAC #4
Ckt. Name: Notification Appl Circuit

Panel ID: NAC1
Use: Notification Appl Circuit

Qty	Device	Current Draw Each Standby	Current Draw Each Alarm	Current Draw Total Standby	Current Draw Total Alarm
2	System Sensor P2/PC2 Horn/Strobe LED(30cd)	0.000	0.038	0.000	0.076
2	System Sensor WP P2 Horn/Strobe LED(75cd)	0.000	0.087	0.000	0.174
	Unused	0.000	0.000	0.000	0.000
	Unused	0.000	0.000	0.000	0.000
		Totals		0.000	0.250

< Return To Main

Edit Device Database

RELEASE/REVISIONS		REV. BY:	SYB	TAM
DESCRIPTION				
NO		DATE	SHOP DRAWINGS	REVISED PER EC COMMENTS
		03/26/25		
		05/08/25		

FIRE ALARM SYSTEM CALCULATIONS

SEQUENCE OF OPERATIONS MATRIX

TAHARKA MUHAMMAD
NICET LEVEL IV
CERT. 138245 EXP. 01/07/2026

SCALE: AS NOTED
DESIGNED BY:
M. WADE
DRAWN/DESIGNED BY:
S. BURNAM
CHECKED BY:
T. MUHAMMAD
DATE: 03/26/25
JOB NUMBER: 79018-1

SHEET
FA-04B

FIRE ALARM SYSTEM MATRIX	SYSTEM OUTPUTS																
	FACP ANNUNCIATION				NOTIFICATION				FIRE SAFETY CONTROL								
	FACP ALARM	FACP TROUBLE	FACP SUPERVISORY		ACTIVATE ALL HORN/STROBES AND STROBES	TRANSMIT FIRE ALARM SIGNAL TO DIALER - CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO DIALER - CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO DIALER - CENTRAL STATION	TRANSMIT WATERFLOW SIGNAL TO DIALER - CENTRAL STATION		(PRIMARY) ELEVATOR RECALL TO 1ST FLOOR ELEVATOR LOBBY ASSOCIATED ELEVATOR	(ALTERNATE) ELEVATOR RECALL TO THE 2ND FLOOR FOR THE ASSOCIATED ELEVATOR	ACTIVATE (FIRE HAT) FOR ASSOCIATED ELEVATOR	SHUNT TRIP ELEVATOR POWER	UNLOCK SECURITY DOORS (IF APPLICABLE)	TELGUARD TG-7FS WIRELESS COMMUNICATOR CONTACT I.D. POINT REPORTING	DISPLAY/PRINT CHANGE OF STATUS
SYSTEM INPUTS																	
MANUAL PULL STATIONS	X				X	X									X	X	X
AREA SMOKE / HEAT COMBO DETECTORS	X				X	X									X	X	X
AREA HEAT DETECTORS	X				X	X									X	X	X
ANSUL FIRE SUPPRESSION SYSTEM	X				X	X											
SMOKE DETECTOR ELEVATOR LOBBY, 1ST FLOOR	X				X	X					X				X	X	X
SMOKE DETECTOR ELEVATOR LOBBY, 2ND FLOOR	X				X	X				X					X	X	X
SMOKE DETECTOR IN ELEVATOR MACHINE ROOM	X				X	X					X	X			X	X	X
HEAT DETECTOR IN ELEVATOR MACHINE ROOM	X				X	X								X	X	X	X
WATERFLOW SWITCH	X				X	X			X						X	X	X
VALVE TAMPER SWITCH			X					X								X	X
COMMUNICATION FAULT			X					X								X	X
GENERAL TROUBLE, OPEN CIRCUIT, GROUND FAULT, WIRE TO WIRE SHORT		X					X									X	X

WA STATE FAIR INTERNATIONAL VILLAGE
FIRE ALARM SYSTEM
110 9TH AVENUE SW
PUYALLUP, WA 98371

SEQUENCE OF OPERATIONS MATRIX

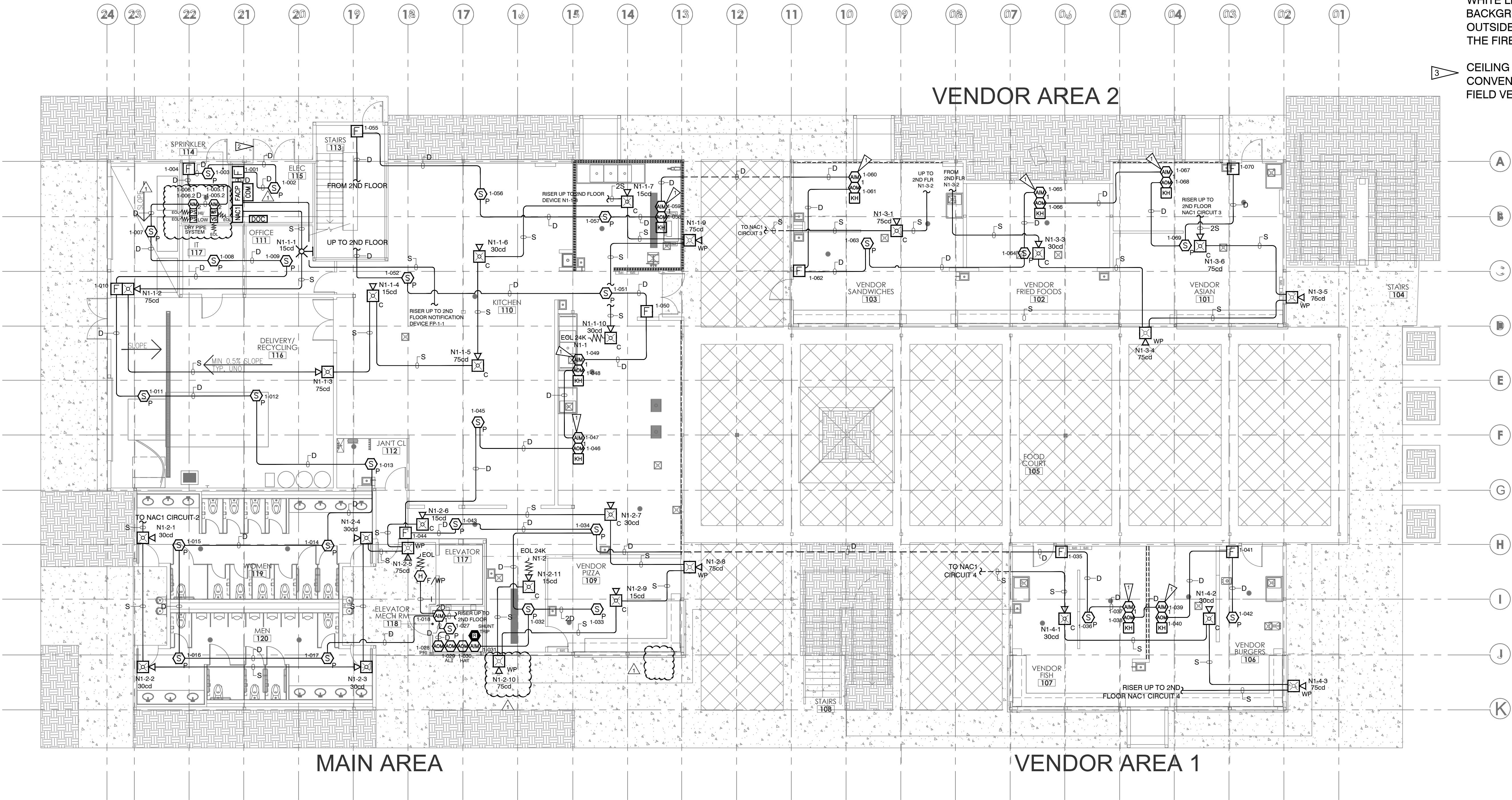
NO	DATE	RELEASE/REVISIONS		REV. BY:		
		DESCRIPTION	SHOP DRAWINGS	SYB	TAM	
1	03/26/25					
2	05/08/25	REVISED PER EC COMMENTS				
3						
4						
5						

NOTES:

- 1. CEILING HEIGHT = 10' OR LESS, UNLESS OTHERWISE NOTED.
- 2. CEILING TYPE = MIX
- 3. SURGE PROTECTOR SUPPLIED BY OTHERS. FOR CIRCUITS BETWEEN BUILDINGS OR EXTERIOR SPACES.

FLAG NOTES:

- 1. FIELD LOCATE SINGLE INPUT MODULE & RELAY MODULE FOR KITCHEN HOOD. FIELD VERIFY ANSUL SYSTEM (F.B.O.).
- 2. PER IFC 509-1 MOUNT A FIRE ALARM CONTROL PANEL SIGN WITH 2 INCH WHITE LETTERS ON A RED BACKGROUND LOCATED ON THE OUTSIDE OF THE DOOR LEADING TO THE FIRE PANEL LOCATION.
- 3. CEILING MOUNT OR WALL MOUNT CONVENTIONAL HEAT DETECTOR. FIELD VERIFY LOCATION.



FIRST FLOOR FIRE ALARM LAYOUT

0 4' 8' 16'
SCALE: 1/8"=1'-0"

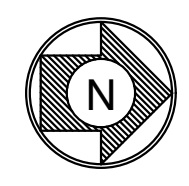
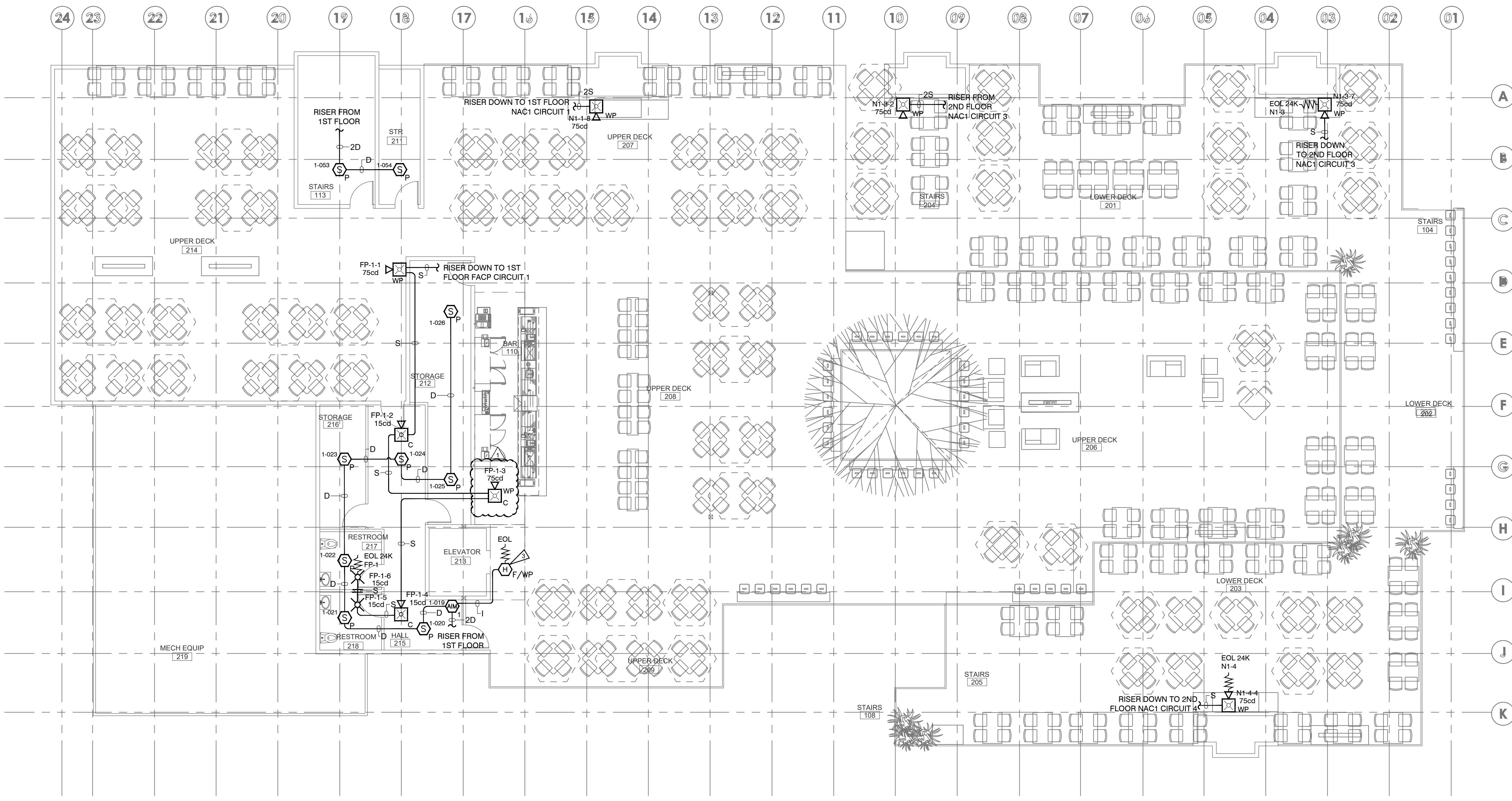
TAHARKA MUHAMMAD
NICET LEVEL IV
CERT. 138245 EXP. 01/07/2026

SCALE: AS NOTED
DESIGNED BY:
M. WADE
DRAWN/DESIGNED BY:
S. BURNAM
CHECKED BY:
T. MUHAMMAD
DATE: 03/26/25
JOB NUMBER: 79018-1

WA STATE FAIR INTERNATIONAL VILLAGE
FIRE ALARM SYSTEM
110 9TH AVENUE SW
PUYALLUP, WA 98371
FIRST FLOOR FIRE ALARM LAYOUT

NO	DATE	DESCRIPTION	REV. BY:		
			SYB	TAM	
1	03/26/25	SHOP DRAWINGS			
2	05/08/25	REVISED PER EC COMMENTS			

GUARDIAN SECURITY
1743 1ST AVE. SO., SEATTLE, WASHINGTON 98134
TEL. (206) 622-6545 FAX (206) 628-4990



SECOND FLOOR FIRE ALARM LAYOUT

0 4' 8' 16'
SCALE: 1/8"=1'-0"

NOTES:

1. CEILING HEIGHT = 10' OR LESS, UNLESS OTHERWISE NOTED.
2. CEILING TYPE = MIX
3. SURGE PROTECTOR SUPPLIED BY OTHERS. FOR CIRCUITS BETWEEN BUILDINGS OR EXTERIOR SPACES.

FLAG NOTES:

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3. CEILING MOUNT OR WALL MOUNT CONVENTIONAL HEAT DETECTOR. FIELD VERIFY LOCATION.

WA STATE FAIR INTERNATIONAL VILLAGE

FIRE ALARM SYSTEM
110 9TH AVENUE SW
PUYALLUP, WA 98371

SECOND FLOOR FIRE ALARM LAYOUT

SCALE: AS NOTED
DESIGNED BY:
M. WADE
DRAWN/DESIGNED BY:
S. BURHAM
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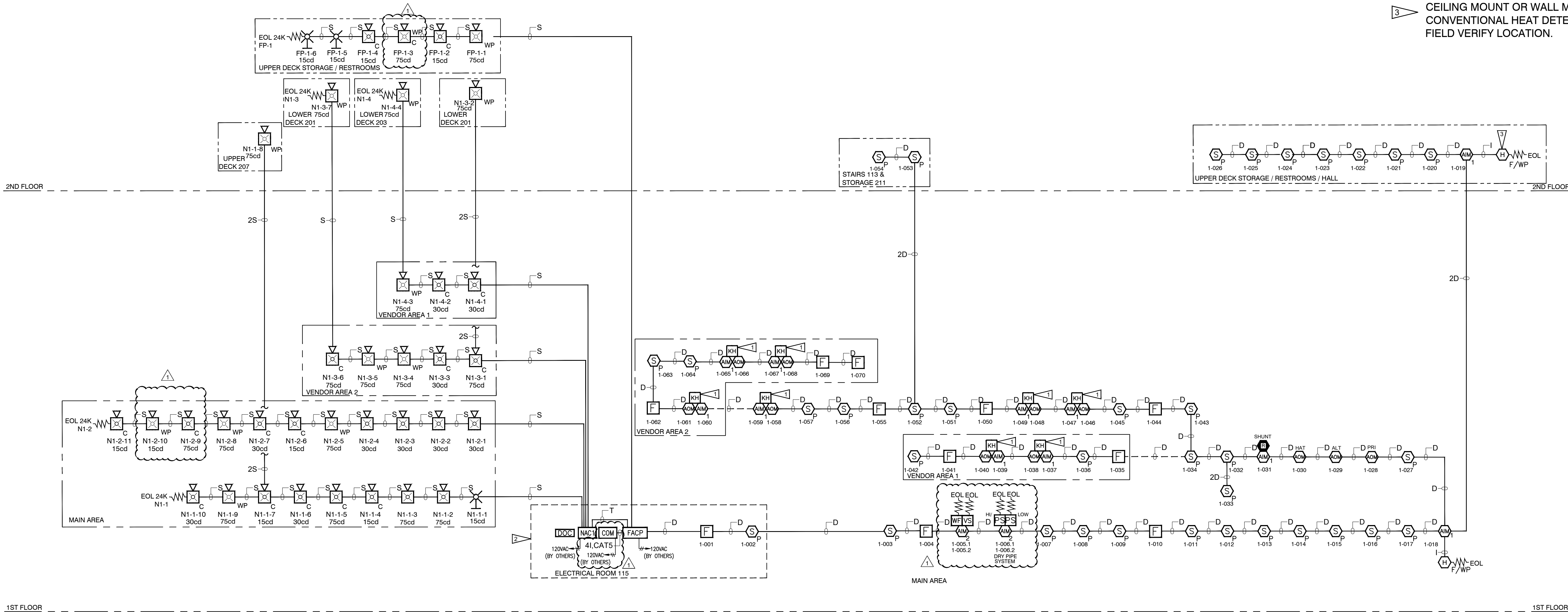
NO	DATE	REV. BY:	RELEASE/REVISIONS	
			DESCRIPTION	
1	03/26/25	SYB	SHOP DRAWINGS	
2	05/08/25	TAM	REVISED PER EC COMMENTS	

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RISER DIAGRAM
SCALE: NTS

TAHARKA MUHAMMAD
NICET LEVEL IV
CERT. 138245 EXP. 01/07/2026

NO	DATE	DESCRIPTION	REV. BY:	
			SYB	TAM
1	03/26/25	SHOP DRAWINGS		
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SCALE: AS NOTED
DESIGNED BY: M. WADE
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