GENERAL NOTES

- 1. INSTALLATION SHALL BE ACCOMPLISHED IN STRICT COMPLIANCE WITH NFPA, LOCAL, AND STATE AHJ'S, NEC, AND CONTRACT DRAWINGS.
- 2. RECORD DRAWINGS ARE REQUIRED AT THE TIME OF AHJ ACCEPTANCE. PATRIOT FIRE PROTECTION, INC. REQUIRES ELECTRICAL RED LINES WITH IN TWO WEEKS PRIOR TO PRIOR AHJ TESTS.
- 3. AGREEMENT AND CONFIRMATION OF ALL MILESTONE EVENTS WILL BE MADE WITH PATRIOT FIRE PROTECTION, INC. PROJECT MANAGER, ALL FS TECHNOLOGIES FIELD SERVICES MUST BE SCHEDULED WITH PATRIOT FIRE PROTECTION, INC. PROJECT MANAGER WITH A MINIMUM OF TEN BUSINESS DAYS ADVANCE NOTICE.
- 4. A SET OF INSTALLATION AS-BUILT DRAWINGS SHOWING ACTUAL CONDUIT AND CONDUCTOR ROUTES SHALL BE KEPT BY PROJECT FOREMAN FOR USE
- BY PATRIOT FIRE PROTECTION, INC. ALARM TECHNICIAN.

5. FIRE ALARM CONTROL PANEL SHALL NOT BE ENEGRIZED WITHOUT THE PRESENCE OF A PATRIOT FIRE PROTECTION, INC. ALARM TECHNICIAN.

- 6. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY UNDERWRITERS LISTED MONITORING STATION BEFORE AHJS TEST.
- 7. THE WIRING ROUTING IS DIAGRAMMATIC IN NATURE ONLY AND NOT INTENDED FOR ACTUAL CONDUIT ROUTING.
- 8. ALL CONDUIT SIZING AND ROUTING BY ELECTRICAL CONTRACTOR PER NEC AND AHJ.
- 9. NO LINE VOLTAGE IN SAME CONDUIT AS POWER LIMITED FIRE ALARM CABLE.
- 10. VERIFY ALL LOCATIONS OF DEVICES WITH ELECTRICAL AND ARCHITECTURAL PLANS, SCALE AND PLACE DEVICES PER ELECTRICAL
- 11. FIELD VERIFY WATERFLOW SWITCHES, TAMPER SWITCHES, PRESSURE SWITCHES, SMOKE DAMPERS, AND DUCT DETECTOR LOCATIONS.
- 12. FIELD VERIFY ALL WIRING LOCATIONS AND REQUIREMENTS FOR HVAC AND FAN CONTROL
- 13. SMOKE DETECTORS SHALL NOT BE LOCATED WITH IN 36" OF ANY DIFFUSER
- 14. WALL MOUNTED AUDIBLE/VISUAL APPLIANCES SHALL BE MOUNTED IN SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN
- 15. THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL NOT BE LESS THAN 3'-6" AND NOT MORE THAN 4'-0" ABOVE THE FINISHED FLOOR.
- 16. NO DETECTORS SHALL BE INSTALLED UNTIL AFTER FINAL CONSTRUCTION CLEAN—UP, DETECTORS THAT HAVE BEEN INSTALLED PRIOR TO CLEAN—UP MUST BE CLEANED OR REPLACED AND WILL BE INVOICED ON A TIME AND MATERIAL BASIS.
- A DEDICATED BRANCH CIRCUIT OF ONE OF THE FOLLOWING SHALL SUPPLY PRIMARY POWER.
- COMMERCIAL LIGHT AND POWER.
- AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATIONS IS ON DUTY AT ALL TIMES
- AN ENGINE-DRIVEN GENERATOR OR EQUIVALENT ARRANGED FOR COGENERATION WITH COMMERCIAL LIGHT AND POWER WHERE A PERSON SPECIFICALLY TRAINED IN ITS OPERATION IS ON DUTY AT ALL TIMES.
- 18. ALL CIRCUITS WILL BE PROPERLY TAGGED AND TESTED FOR OPENS, SHORTS, GROUNDS, AND PROPER "END-TO-LINE" RESISTANCE. EACH CIRCUITS METER READING MUST BE DOCUMENTED AND PRESENTED TO PATRIOT FIRE PROTECTION, INC. ALARM TECHNICIAN UPON ARRIVAL ONSITE FOR STARTUP AND CHECKOUT.
- 19. NO TAPPING OF SIGNALING OR INITIATING ZONE CIRCUITS ARE ALLOWED. T-TAPPING OF STYLE 4 ADDRESSABLE CIRCUITS IS ALLOWED PROVIDING A SPLICE IS PROFESSIONALLY INSTALLED, POLARITY IS OBSERVED, AND SHIELDS ARE CONTINUOUS AND FREE OF GROUNDS. SHIELDS MUST BE TERMINATED AT THE FIRE ALARM CONTROL PANEL ONLY. CABLE SHIELDS SHALL BE SPLICED TOGETHER AT EVERY JUNCTION BETWEEN THE FIRE ALARM CONTROL PANEL AND THE LAST DEVICE ON EACH CABLE RUN. SHIELDS AND OTHER FIRE ALARM CONDUCTORS (EXCEPT POWER GROUNDS) SHALL BE INSULATED AND COMPLETELY FREE FROM CONDUIT OR EARTH GROUNDS. SHIELDS WILL BE TIED TO GROUND ONLY AT THE FIRE ALARM CONTROL PANEL.

DRAWING ACCEPTANCE

THIS DRAWING IS TO BE USED FOR THE PURPOSE OF PLACING AND LOCATING PATRIOT FIRE PROTECTION, INC. FIRE ALARM DEVICES AND IS NOT TO BE USED FOR ANY OTHER PURPOSES.

INSTALLATION COMPANY

2707 70TH AVE E, TACOMA, WA 98424

MONITORING COMPANY

AVANTGUARD MONITORING CENTERS, LLC 4699 HARRISON BLVD, SUITE 100





SCOPE OF WORK

PERFORM ADDRESSABLE UPGRADE OF FIRE ALARM SYSTEM IN BUILDING F

SYSTEM DESIGN CODES

INTERNATIONAL BUILDING CODE (IBC 2021 EDITION) INTERNATIONAL FIRE CODE (IFC 2020 EDITION) NATIONAL ELECTRICAL CODE (NFPA 70 2020 EDITION) ADA INTERNATIONAL CODE ANSIE 117.1 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72 2019 EDITION)

USE & OCCUPANCY CLASSIFICATION

☐ ASSEMBLY (A) \square A-1 \square A-2 \square A-3 \square A-4 \square A-5

☐ BUSINESS (B)

☐ EDUCATIONAL (E)

 \square FACTORY & INDUSTRIAL (F) \square F-1 \square F-2

 \square H-1 \square H-2 \square H-3 \square H-4 \square H-5 ☐ HIGH HAZARD (H) ☐ INSTITUTIONAL (I) \square I-1 \square I-2 \square I-3 \square I-4

☐ MERCANTILE (M)

■ RESIDENTIAL (R) □ R-1 ■ R-2 □ R-3 □ R-4 ☐ STORAGE (S) \square S-1 \square S-2 \square S-3 \square S-4

☐ UTILITY & MISCELLANEOUS (U)

AUTOMATIC SPRINKLER PROTECTION

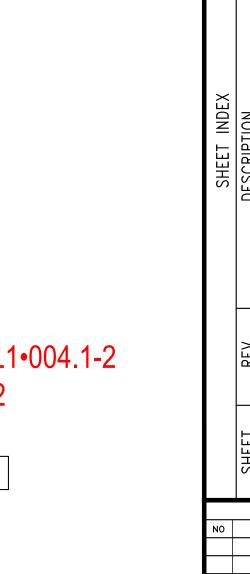
□ PARTIAL
■ FULL

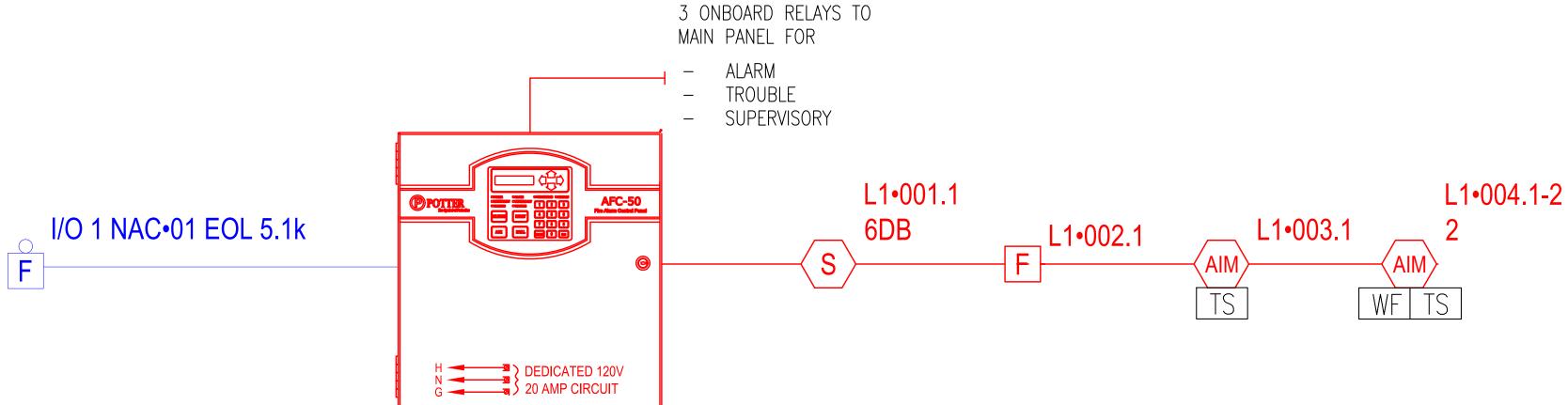
DEVICE LEGEND

SYMBOL QUA		QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
	FACU	1	POTTER	AFC-50	FIRE ALARM CONTROL PANEL
	AIM 2	1	POTTER	PAD100-DIM	DUAL INPUT MODULE
	(AIM)	1	POTTER	PAD100-SIM	SINGLE INPUT MODULE
	F	1	POTTER	PAD100-PSDA	ADDRESSABLE PULL STATION DUAL ACTION
	⟨S⟩ _{6DB}	1	POTTER	PAD300-PD W/PAD300-6DB	PHOTOELECTRIC SMOKE DETECTOR WITH 6" STANDARD BASE
	F	1	POTTER	PDC-10-24	10" BELL

OPERATION MATRIX

		\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d\d				/ /&		
DISPLAY OF AN ALARM EVENT AT THE FACP	X	X	X	\ 		5/6	'/	
DISPLAY OF A SUPERVISORY EVENT AT THE FACP				X				
DISPLAY OF A TROUBLE EVENT AT THE FACP					Х	Х		
TRANSMIT AN ALARM SIGNAL TO THE CENTRAL STATION	Х	Χ	Х					
TRANSMIT A SUPERVISORY SIGNAL TO THE CENTRAL STATION				Х				
TRANSMIT A TROUBLE SIGNAL TO THE CENTRAL STATION					Х	X		
INITIATE BUILDING NOTIFICATION (A/V DEVICES)	Х	Χ	Х					





RISER DIAGRAM

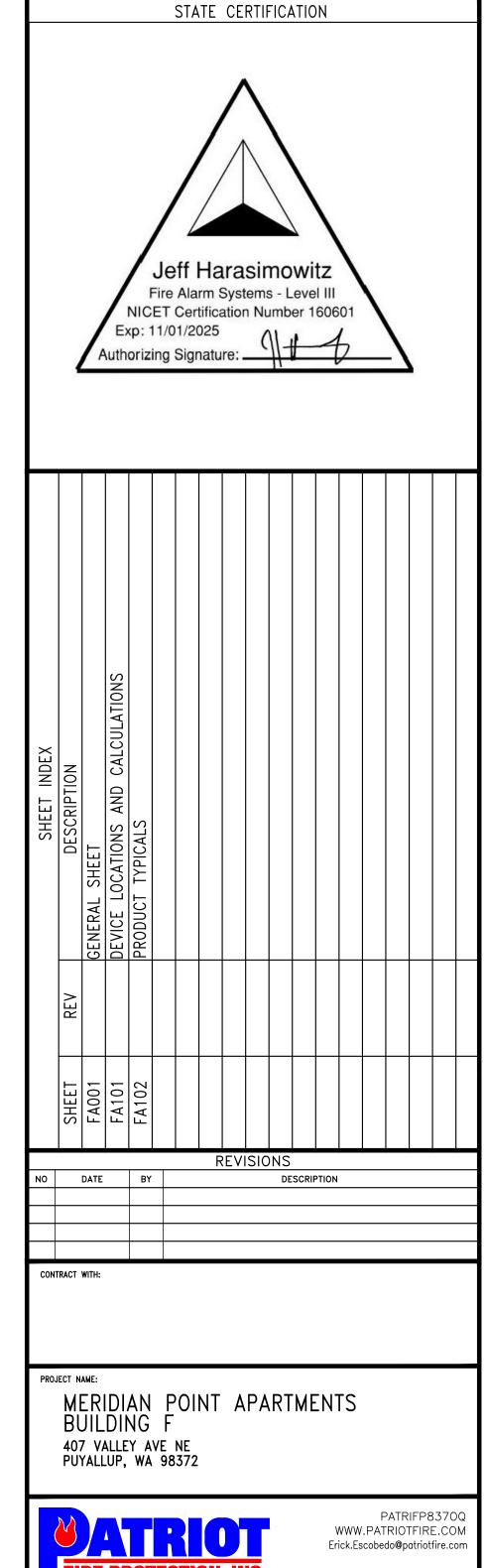
NOT TO SCALE

Iopment & Permitting Services ISSUED PERMIT Public Works Engineering

REVIEWED FOR COMPLIANCE 08/18/2025 9:29:57 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.

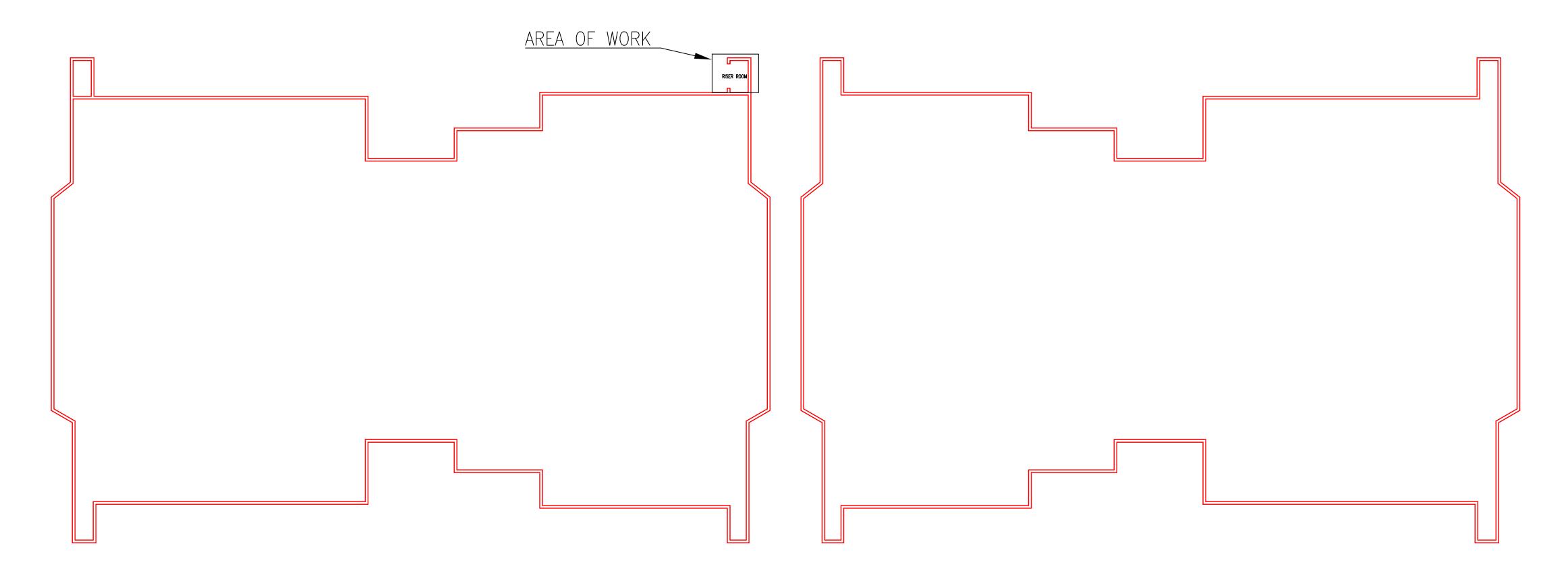


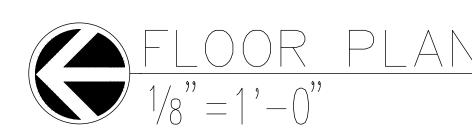


ESIGNER

TEL: (253) 532-0967 FAX: (253) 922-6150

ERICK E. 7/28/25 12-24283F

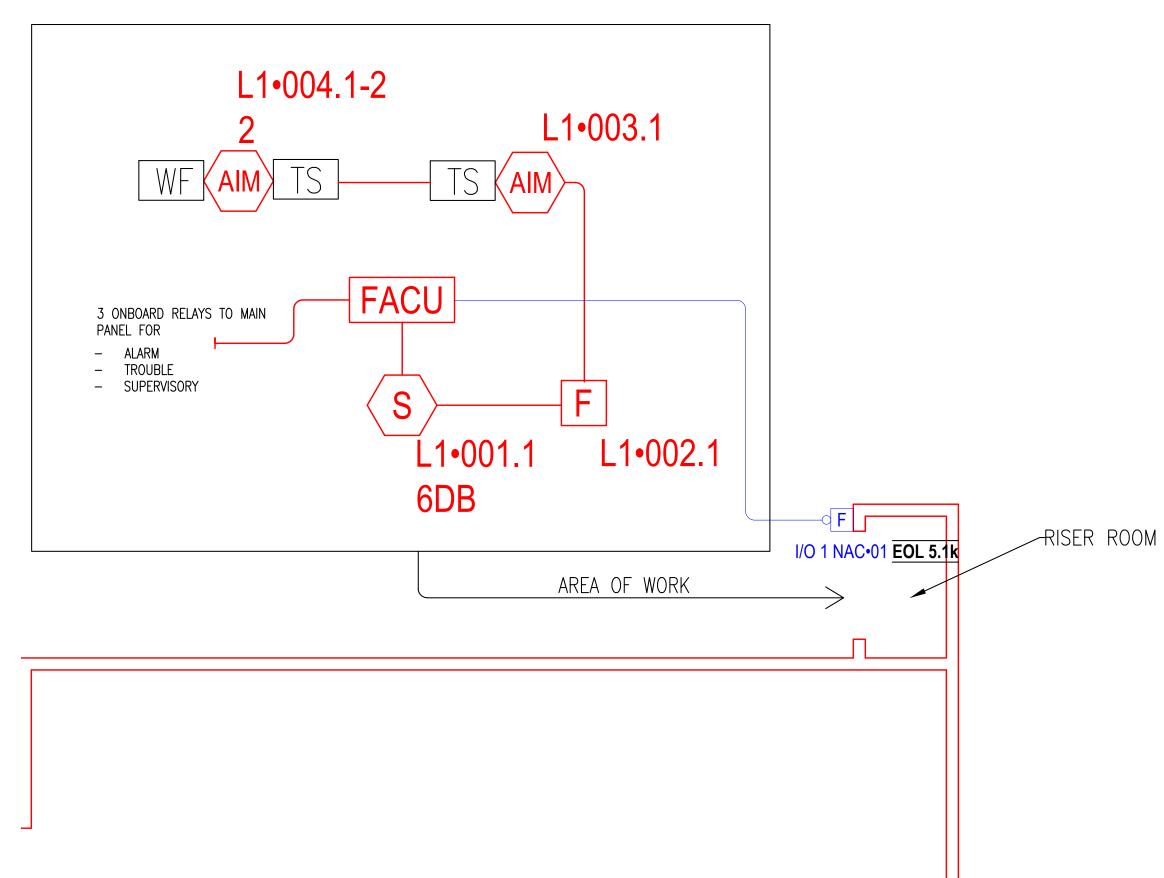




						/	PANEL					
						· · · · · · · · · · · · · · · · · · ·	BATTERY CALCULATION	ENTO\				
						(SECONDARY PO	OWER SOURCE REQUIREM	ENIS)	OTANDRY O	UDDENT	OF COMPARY AL	ADM OUDDENIT
							DARTNO	DESCRIPTION	STANDBY C		SECONDARY ALA	
					_	QTY	PART NO.	DESCRIPTION SAME	CURRENT DRAW (A)	TOTAL (A)	. ,	TOTAL (A)
			PANEL COMPONENTS	;	_	1	AFC-50	FIRE ALARM CONTROL PANEL	0	0	0	0
						1	AFC-50 MAIN BOAR	FIRE ALARM CONTROL PANEL MAIN BOARD	0.13	0.13	0.22	0.22
CIRCUIT	MA	X CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
I/O 1 NAC					Ê	1	PDC-10-24	10" BELL	0	0	0.02	0.02
					(AIM) 2	1	PAD100-DIM	DUAL INPUT MODULE	0.00024	0.00024	0.00024	0.00024
	N/A	N/A	0.020980	0.020980	F	1	PAD100-PSDA	ADDRESSABLE PULL STATION DUAL ACTION	0.0002	0.0002	0.0002	0.0002
L1					(AIM)	1	PAD100-SIM	SINGLE INPUT MODULE	0.00024	0.00024	0.00024	0.00024
					⟨S⟩ _{6DB}	1	PAD300-PD W/PAD300-6DB	PHOTOELECTRIC SMOKE DETECTOR WITH 6" STANDARD BASE	0.0003	0.0003	0.0003	0.0003
									TOTAL STANDBY (A)	0.13098	TOTAL ALARM (A)	0.24098
									REQUIRED STANDB		24	
									REQUIRED ALARM	,	5	
				SECONDARY STANDBY LOAD	(A)	0.13098			24	, ,	3.14	
				SECONDARY ALARM LOAD (A				0.24098	0.08		0.02	
			STANDE	BY AND ALARM SUBTOTAL (AM	,						3.16	
				DERATING FACTOR	,						1.25	
			SECONDA	ARY LOAD REQUIREMENTS (AI	MP HOURS)						3.95	
				· ·	,	PROVID	E (2) 12V 8AH BATTERIES					
					*BATTERY BOX SI	ZE CAPACITY NOT SP	ECIFIED. REFER TO MANUI	ACTURER DOCUMENTATION.				
				CURRENT S	SUMMARY		POWER SUMM	ARY				
			MA	XX. CIRCUIT CURRENT (A):	1	STARTING	CALC. VOLTAGE:	20.40				
TOTAL CIRCUIT CURRENT (A): 0.02 SPARE CIRCUIT CURRENT (A): 0.980 SPARE CIRCUIT CURRENT %: 98.00 % MAX. CARD CURRENT (A): n/a TOTAL CARD CURRENT (A): 0.02098				MAX. V	OLTAGE DROP:	0						
				0.980	VOLT	AGE DROP %:	0.01 %					
				98.00 %	MIN. OPERA	ATIONAL VOLTAGE:	16					
					LINE VOLTAGE:	20.40						
					ISTANCE (Ω/KFT):	3.07						
SPARE CARD CURRENT (A):						CUIT LENGTH (FT):	20					
				PARE CARD CURRENT %:			JIT RESISTANCE (Ω):	0.122146				
				ES: 'V' 14/2 FPLP/R NAC 14 AW	·							
		_		SING DRAWN SEGMENT LENG								
YMBOL	QUANTITY	PART	NO	DESCRIPTION	CANDELAS	ALARN	I CURRENT (A)	TOTAL CURRENT (A)				
F	1	PDC-1	10-24	10" BELL			0.02	0.02				

CALCULATION METHODS:

TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω /FT) X 2 X TOTAL CIRCUIT LENGTH (FT) TOTAL VOLTAGE DROP = TOTAL RESISTANCE (Ω) X TOTAL CIRCUIT CURRENT (A)



City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Planning

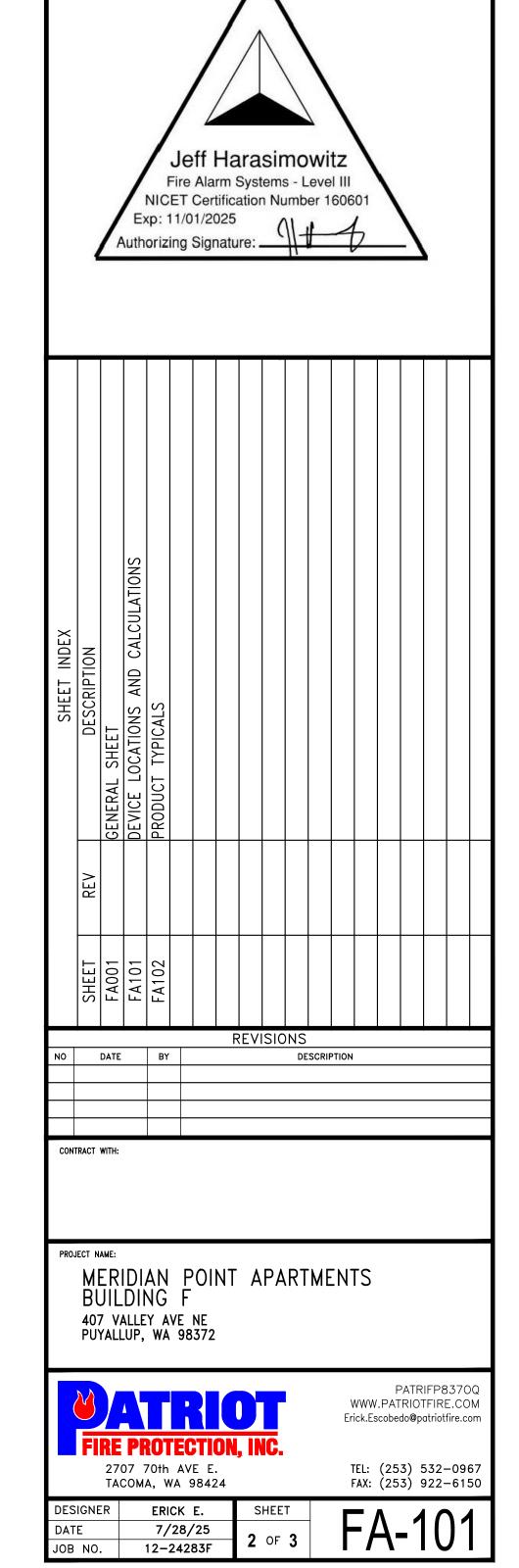
Public Works

Traffic

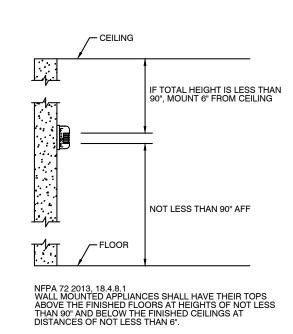
Building

Engineering

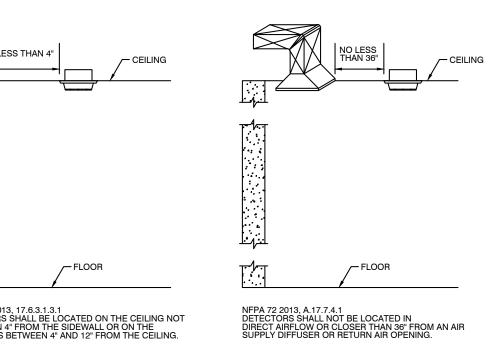
Fire



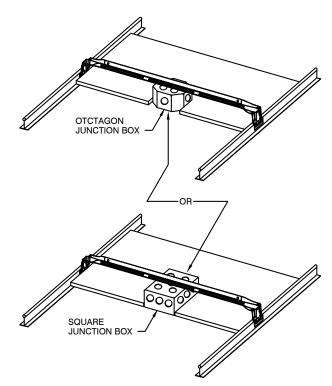
STATE CERTIFICATION



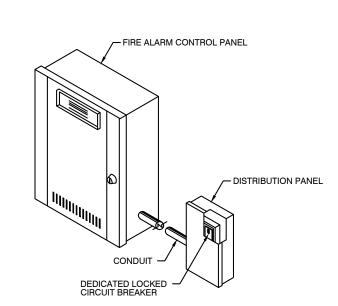
FIRE ALARM - HORN MOUNTING



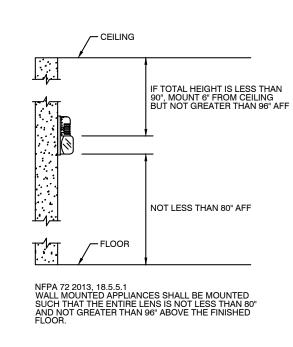
FIRE ALARM - SMOKE & HEAT MOUNTING



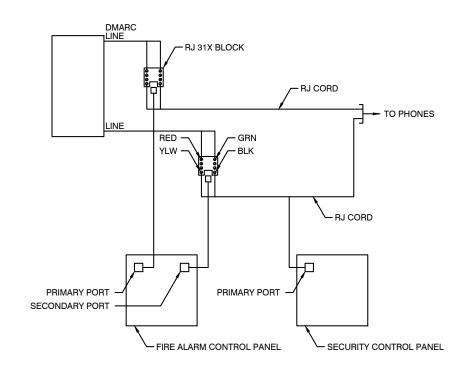
FIRE ALARM - DROP CEILING & J BOX



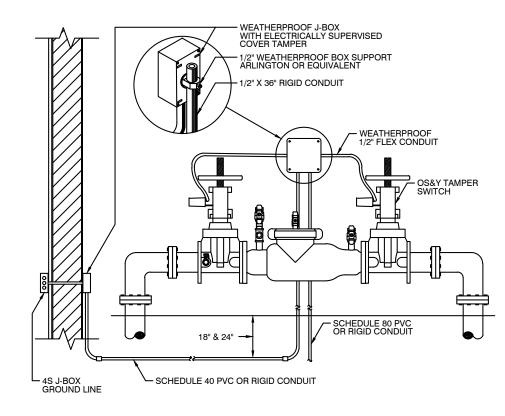
FIRE ALARM - POWER DISCONNECT



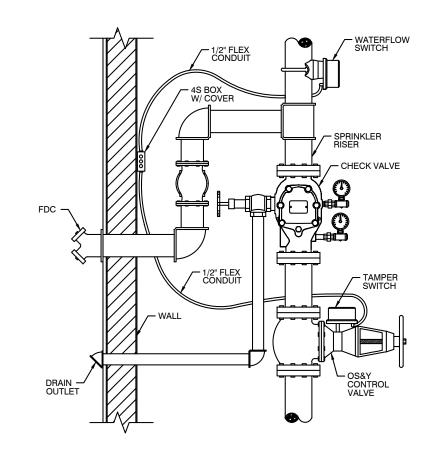
FIRE ALARM - STROBE MOUNTING B



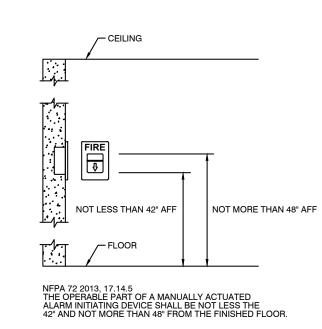
FIRE ALARM - PHONE CONNECTION F



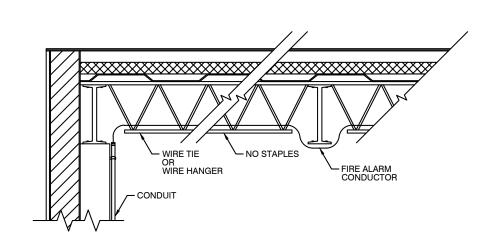
FIRE ALARM - DCVA TAMPER SWITCHES



FIRE ALARM - OS&Y TAMPER GATE VALVE



FIRE ALARM - PULL STATION MOUNTING



FIRE ALARM - CEILING TO WALL TRANSITION AND OPEN WIRING

F

City of Puyallup elopment & Permitting Services

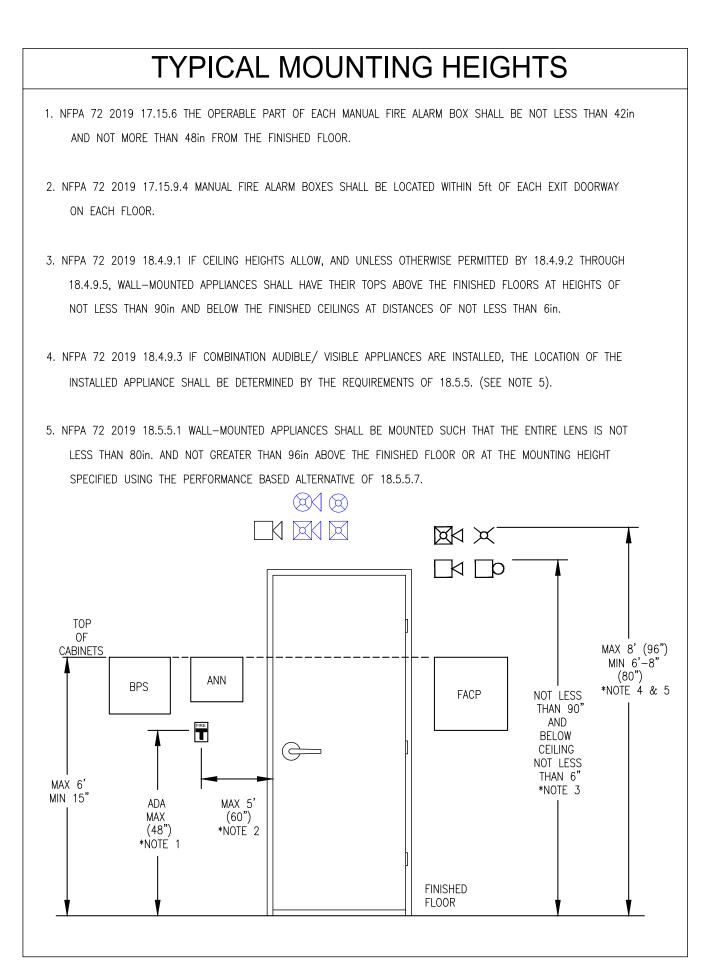
Engineering

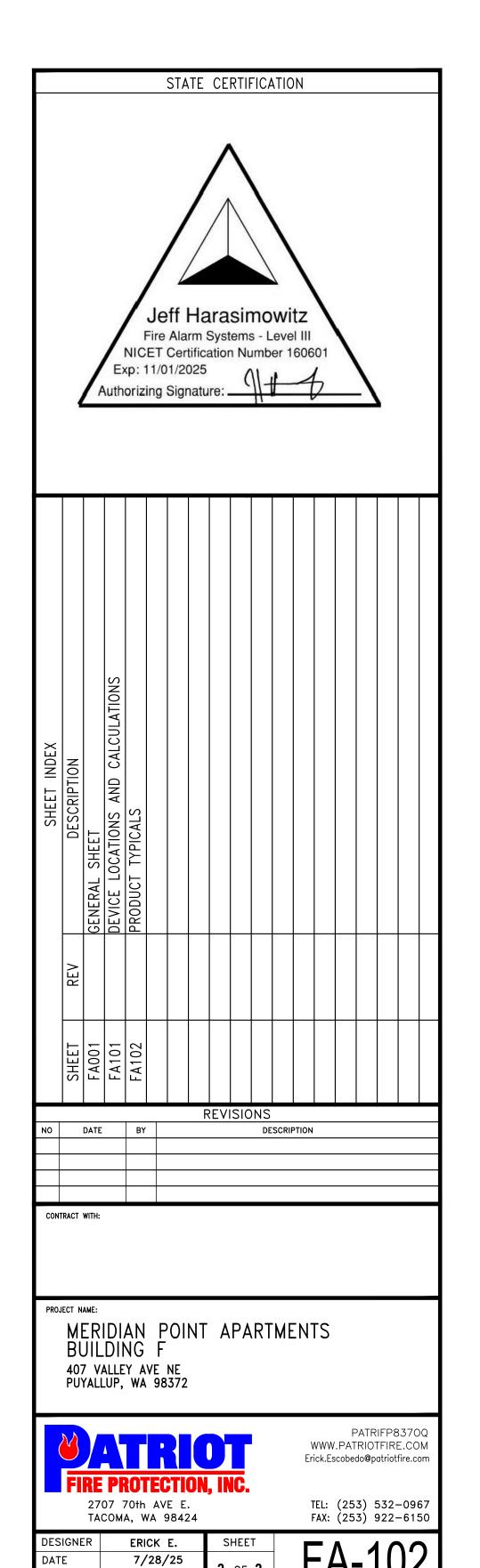
Fire

ISSUED PERMIT

Public Works

Traffic





12-24283F

