SCOPE OF WORK:

Installation of beam detectors in Upper Gym and Gym. The beam detectors will replace the recalled heat detectors in these locations.

Install the new conventional beam detectors to existing open zone on existing Silent Knight 5208. Install a new power supply to power the new beam detectors.

Occupany: Group E.

EXCLUSIONS

ALL HIGH VOLTAGE WIRING AND CONNECTIONS. ANY CONDUIT, FIRE CAULKING, CORE DRILLING, EXTERIOR PATHWAY/RACEWAY.

SYSTEM INTERCONNECTIONS NOT SPECIFICALLY ADDRESSED BY THIS

GENERAL NOTES:

01 - FIRE ALARM DESIGN TO BE PER NFPA 72 (2019) AND CITY OF PUYALLUP.

02 - SYSTEM TO BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 72 (2019) AND AUTHORITY HAVING JURISDICTION.

03 - SYSTEM TO BE MONITORED BY APPROVED UL LISTED CENTRAL STATION (VERIFY PROPER SIGNALS).

04 - ALL MATERIAL AND EQUIPMENT TO BE NEW AND UL APPROVED.

05 - "FIRE ALARM PANEL" SIGN TO BE INSTALLED AT ENTRANCE OF ROOM CONTAINING THE FIRE ALARM PANEL AND BOOSTER PANEL(S) (BY OTHERS).

PANEL

06 - FIRE ALARM CONTROL PANEL (FACP) IS EXISTING AND LOCATED IN THE HALLWAY NEXT TO MECHANICAL ROOM 143. INSTALL NEW BOOSTER POWER SUPPLY (BPS) AT FACP TO POWER NEW BEAM DETECTORS. IF THE PANEL IS GOING TO BE MOUNTED ON AN EXTERIOR AND/OR DAMP WALL. THE PANEL SHALL BE SPACED OFF WITH FIRE RATED PLYWOOD OR APPROPRIATE STANDOFF (BY OTHERS), 3'-0" OF CLEARANCE SHALL BE MAINTAINED AROUND ALL FIRE ALARM PANELS.

07- THE FIRE ALARM PANEL SHALL UTILIZE AN EXISTING COMMUNICATIONS DEVICE. **DEVICES**

08 - ALL PULL STATIONS SHALL BE MOUNTED AT 42" AFF TO THE CENTER OF THE BOX. DEVICE LOCATIONS TO BE VERIFIED UPON ARRIVAL ONSITE. THERE ARE NO NEW PULL STATIONS AS PART OF THIS INSTALLATION.

09 - ALL NOTIFICATION DEVICES TO BE SET TO TEMPORAL-3 SETTINGS AND MARKED WITH "FIRE" AND IN SYNC. ALL BATHROOMS TO HAVE A J-BOX INSTALLED FOR FUTURE LOCATION OF HEARING IMPAIRED NAC DEVICE AS REQUIRED BY NFPA 72: 907.5.2.3.3. THERE ARE NO NEW NOTIFICATION DEVICES AS PART OF THIS INSTALLATION.

10- ALL WALL MOUNTED DEVICES SHALL BE MOUNTED A MINIMUM OF 80" AFF OR 8" BELOW CEILING (WHICHEVER IS LOWER), DEVICE LOCATIONS TO BE VERIFIED UPON ARRIVAL ONSITE.

11 - WHEN APPLICABLE, VERIFY EXISTENCE AND LOCATION OF WATER FLOW, HI/LO, TAMPER SWITCHES, PIV. AND/OR OS&Y VALVES, THESE DEVICES ARE TO BE MONITORED BY THE FACP, ALL DEVICES ARE EXISTING.

14- ANY EXTERIOR DEVICES TO HAVE APPLICABLE BLOCKING INSTALLED FOR FLUSH MOUNTING (BY OTHERS). ALL DEVICES ARE EXISTING.

15- ALL WEATHERPROOF DEVICES TO HAVE LIQUIDTIGHT $\frac{3}{4}$ " CONNECTIONS PROVIDED. ALL DEVICES ARE EXISTING.

16 - ALL HVAC UNITS OVER 2000CFM TO HAVE DUCT DETECTORS INSTALLED AND INTERCONNECTED TO FACP AND SHUTDOWN, ANY ADDITIONAL DUCT DETECTORS NOT SHOWN ON PLANS WILL BE A CHANGE ORDER. HVAC UNITS OVER 10,000CFM SHALL HAVE TWO (2) DUCT DETECTORS INSTALLED. ONE ON THE SUPPLY AND ONE ON THE RETURN SIDE AND A CONTROL RELAY FOR HVAC SHUTDOWN UPON DUCT DETECTOR OR GLOBAL ALARM. THERE ARE NO HVAC UNITS PRESENT.

PUYALLUP HIGH SCHOOL GYM/POOL BUILDING 105 7TH STREET SW PUYALLUP, WA 98371 FIRE ALARM SYSTEM

SYMBOL	MODEL NUMBER	DESCRIPTION	MANUFACTURE	BACK BOX	QTY
FACP FACP	5208	FIRE ALARM CONTROL PANEL —EXISTING	SILENT KNIGHT	EXISTING	1
BPS	PSN106	BOOSTER POWER SUPPLY	POTTER	RED HAWK TO PROVIDE	1
S BT	OSI-R-SS	BEAM SMOKE DETECTOR IMAGER/TRANSMITTER	SYSTEM SENSOR	-	8
⊘ BR	OSI-R-SS	BEAM SMOKE DETECTOR REFLECTOR	SYSTEM SENSOR	_	8

CABLE/CONDUCTOR LIST CIRCUIT TYPE CABLE TYPE COLOR NOTES GAUGE CONVENTIONAL INITIATING CIRCUIT 16/2 FPLP 16/2 FPLP POWER CIRCUIT

WIRING

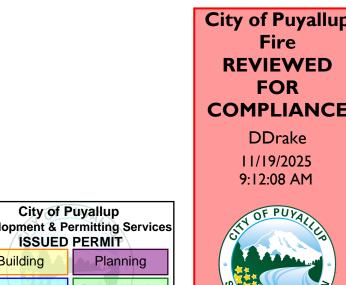
17 - ALL AUDIBLE/VISUAL DEVICES AND DETECTION CIRCUITS TO BE RISER OR PLENUM WIRE WHERE REQUIRED BY NEC. ALL AUDIBLE/VISUAL DEVICES CIRCUITS AND INITIATING ZONES TO HAVE AN END OF LINE RESISTOR, FOR CIRCUIT INTEGRITY SUPERVISION PER NFPA

18 - ALL FIRE ALARM WIRES TO BE IDENTIFIED AND APPROPRIATELY MARKED WIRING BELOW 7'-0" TO BE INSTALLED IN CONDUIT (EMT $\frac{1}{2}$ " TRADE TYP) OR ADEQUATELY PROTECTED.

19 - PER NEC. NO AC VOLTAGE WIRING OF ANY KIND CAN BE RUN IN SAME CONDUIT OR RISER AS LOW VOLTAGE FIRE ALARM SYSTEM WIRE.

20- ALL NEW FA BOXES TO BE PAINTED RED ND LABELED "FA J-BOX, LOW VOLTAGE."

21 - OTHER TRADES; ELECTRICAL, HVAC, ACCESS CONTROL, ETC ARE RESPONSIBLE FOR PROVIDING POWER FOR ANY ASSOCIATED EQUIPMENT SHUTDOWNS AND FOR WIRING CONNECTIONS TO THEIR RESPECTIVE EQUIPMENT. FA SYSTEM/CONTRACTOR TO PROVIDE DRY RELAY CONTACT POINT ONLY.



City of Puyallup

Planning

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.

COORDINATION ITEMS

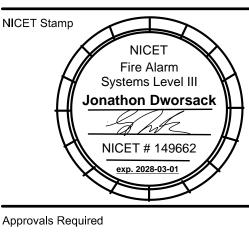
- ELECTRICAL CONTRACTOR TO PROVIDE 120VAC 20AM MAXIMUM DEDICATED CIRCUIT FOR FIRE ALARM PANEL AND EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL APPROPRIATE SURGE SUPPRESSION AND BREAKER LOCK FOR EQUIPMENT AS PER CODE.
- 2. ELECTRICAL CONTRACTOR SHALL INSTALL A RECEPTACLE ADJACENT TO THE FACP (COORDINATE LOCATION) FOR PLUG IN CELLULAR TRANSFORMER TO BE POWERED FROM. RED HAWK WILL PROVIDE ENCLOSURE TO BE INSTALLED. ELECTRICAL CONTRACTOR TO MAKE ALL 120V CONNECTIONS.
- RED HAWK FIRE PROTECTION TO PULL ALL FIRE ALARM SYSTEM LOW VOLTAGE CABLING, TRIM FIRE ALARM DEVICES AND PANEL PROGRAM AND TEST FIRE ALARM SYSTEM DEVICES. SEPARATE LOW VOLTAGE ELECTRICAL PERMIT TO BE PULLED BY RED HAWK FIRE PROTECTION. WORK WILL BE COMPLETED OVER SEVERAL SCHEDULED VISITS. COORDINATE ROUGH-IN, COVER AND FINAL INSPECTIONS WITH RED HAWK FIRE PROTECTION TO AVOID RESCHEDULING AND/OR RE-INSPECTION COSTS ASSOCIATED WITH CHANGED OR DELAYED TIMELINES.
- 4. REQUIRE ELECTRICAL, SPRINKLER, AND HVAC TO BE COMPLETED PRIOR TO PROGRAMMING AND PRE-TESTING. REQUIRES BUILDING FINISHES (PAINT, MUD, FLOORING, ETC.) TO BE COMPLETED PRIOR TO FINAL ACCEPTANCE TESTING WITH AHJ.

FIRE ALARM SYSTEMS SEQUENCE OF OPERATIONS

						SYS	TEM	INF	PUT	
	X = REQUIRED RESPONSE O = OVERRIDE	CIRCUIT FAULT	LOW BATTERY	AC POWER FAILURE	GROUND CIRCUIT FAULT	SMOKE/HEAT DETECTORS				
	ALARM @ FCP					X				
	TROUBLE @ FCP	X	X	X	X					
	SUPV. @ FCP									
OUTPUT	ACTIVATE FIRE NOTIFICATION DEVICE					X				
	TRANSMIT ALARM TO MONITORING					X				
SYSTEM	TRANSMIT TROUBLE TO MONITORING	X	Χ	X	Χ					
SXS										

SET STROBE CANDELA OUTPUT AS SHOWN ON PLANS.





OWNER / ARCHITECT

PUYALLUP SCHOOL DISTRICT

323 12TH STREET NW PUYALLUP WA 98371 EMAIL: KLINKLE@PUYALLUPSD.ORG PHONE: 253-435-6660

PUYALLUP HIGH SCHOOL GYM/POOL

105 7TH STREET SW PUYALLUP WA 98371

Drawing Title

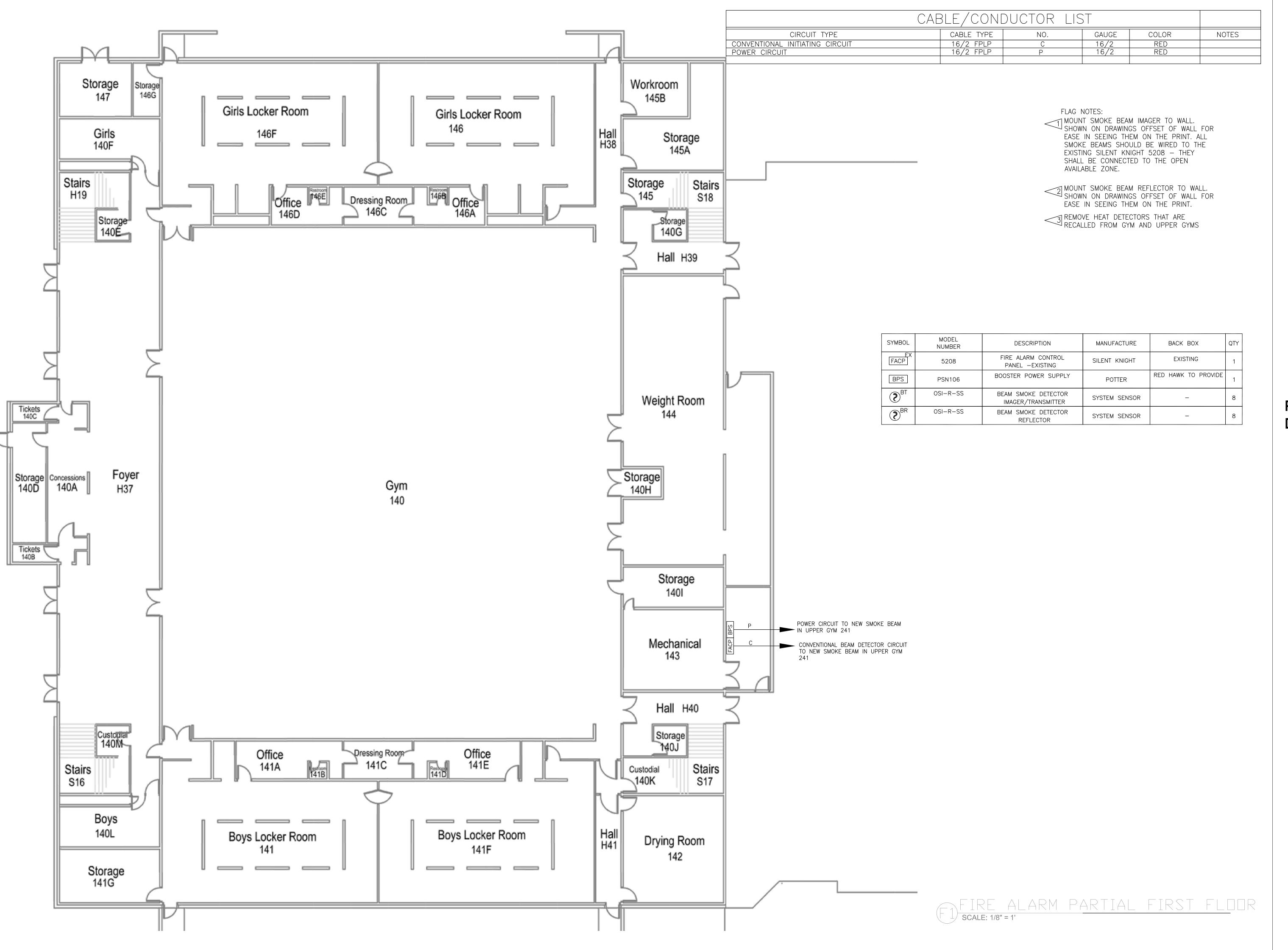
FIRE ALARM **DRAWING - COVER** SHEET

NOVEMBER 11, 2025

LINDSEY LESLIE

Drawing Number

FA-01 SHEET 1 OF 6





NICET Stamp

NICET
Fire Alarm
Systems Level III

Jonathon Dworsack

NICET # 149662

exp. 2028-03-01

Approvals Required

OWNER / ARCHITECT

Contract With

PUYALLUP SCHOOL DISTRICT

323 12TH STREET NW
PUYALLUP WA 98371
EMAIL: KLINKLE@PUYALLUPSD.ORG
PHONE: 253-435-6660

Contract Name

PUYALLUP HIGH SCHOOL GYM/POOL

105 7TH STREET SW PUYALLUP WA 98371

Drawing Title

FIRE ALARM DRAWING PARTIAL FIRST FLOOR

Key Plan

City of P Development & Po ISSUED	ermitting Services
Building	Planning
Engineering	Public Works
Fire OF W	Traffic

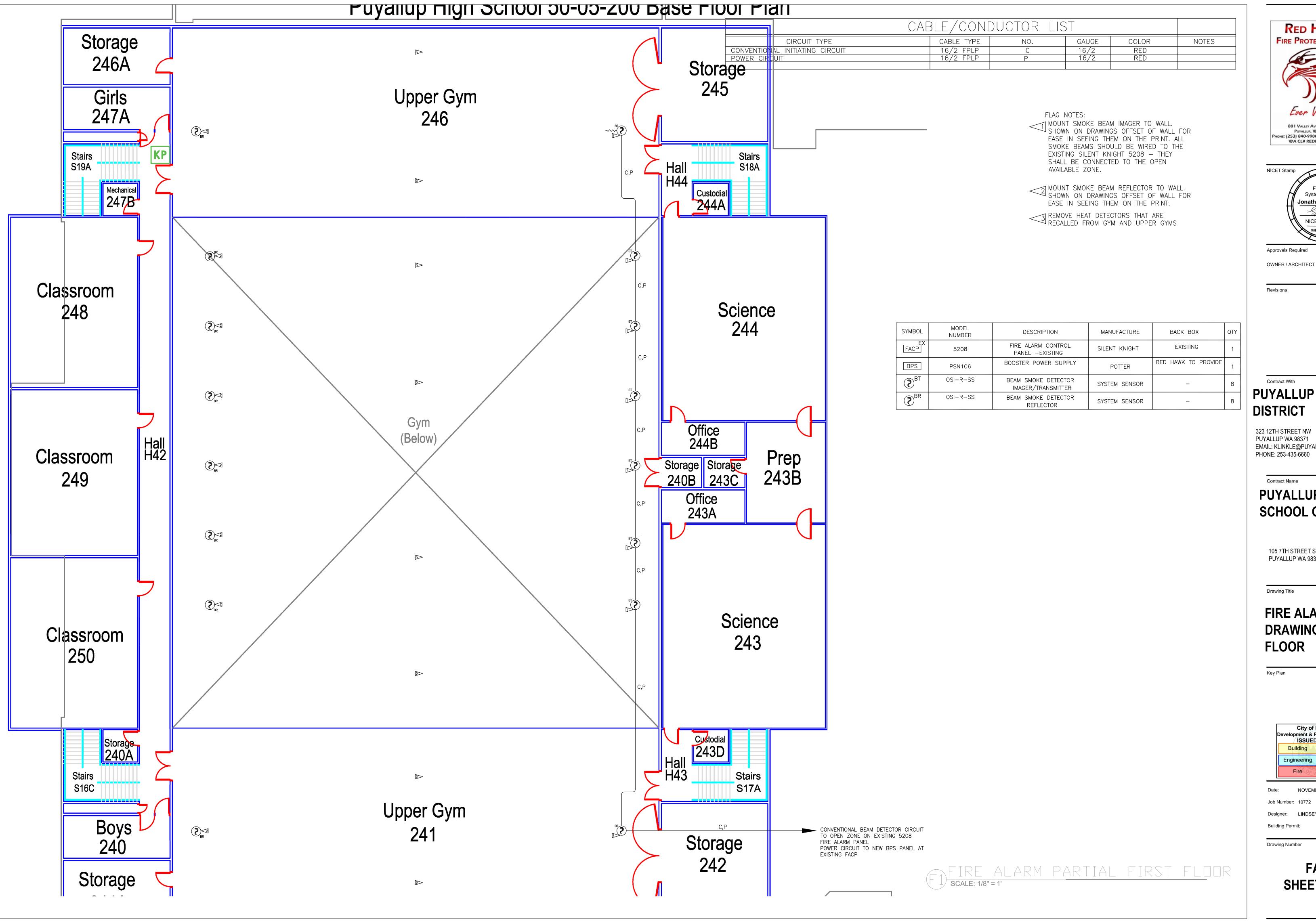
ate: NOVEMBER 11, 2025

bb Number: 10772

Building Permit:

Drawing Number

FA-02 SHEET 2 OF 6





Fire Alarm Systems Level III **Jonathon Dworsacl** NICET # 149662 exp. 2028-03-01

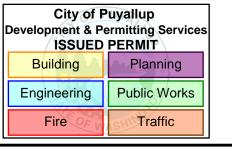
PUYALLUP SCHOOL

EMAIL: KLINKLE@PUYALLUPSD.ORG

PUYALLUP HIGH SCHOOL GYM/POOL

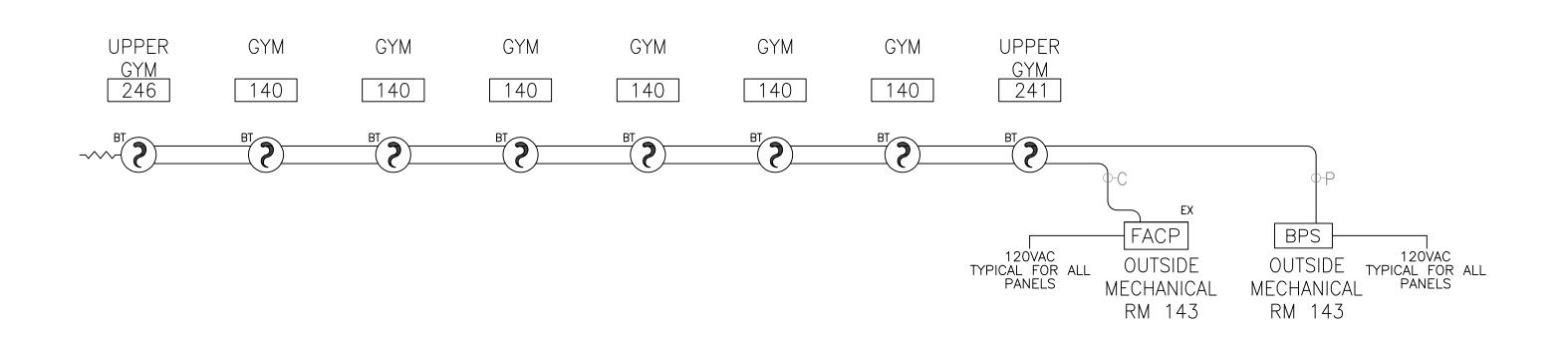
105 7TH STREET SW PUYALLUP WA 98371

FIRE ALARM **DRAWING - 2ND**



NOVEMBER 11, 2025

FA-03 SHEET 3 OF 6



FIRE ALARM RISER DIAGRAM

SCALE: NONE

CABLE/CONDUCTOR LIST					
CIRCUIT TYPE	CABLE TYPE	NO.	GAUGE	COLOR	NOTES
CONVENTIONAL INITIATING CIRCUIT	16/2 FPLP	С	16/2	RED	
POWER CIRCUIT	16/2 FPLP	P	16/2	RED	



NICET Stamp

NICET

Fire Alarm

Systems Level III

Jonathon Dworsack

NICET # 149662

exp. 2028-03-01

Approvals Required

OWNER / ARCHITECT

Revisions

PUYALLUP SCHOOL DISTRICT

323 12TH STREET NW PUYALLUP WA 98371 EMAIL: KLINKLE@PUYALLUPSD.ORG PHONE: 253-435-6660

Contract Nam

PUYALLUP HIGH SCHOOL GYM/POOL

105 7TH STREET SW PUYALLUP WA 98371

Drawing Title

FIRE ALARM RISER DIAGRAM

Key F

City of P Development & Po ISSUED			
Building	Planning		
Engineering	Public Works		
Fire OF W	Traffic		

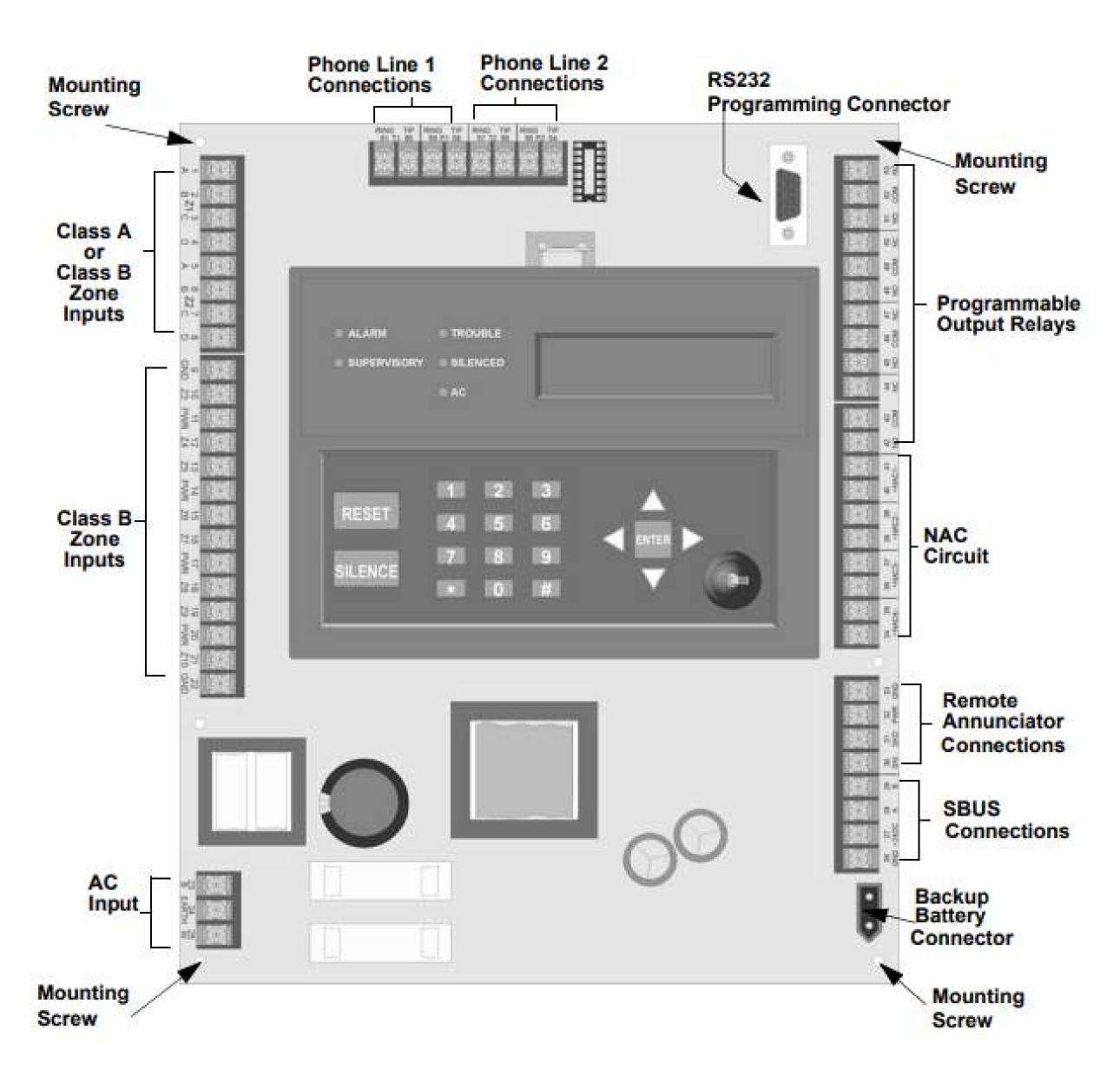
ate: NOVEMBER 11, 2025

Job Number: 10772

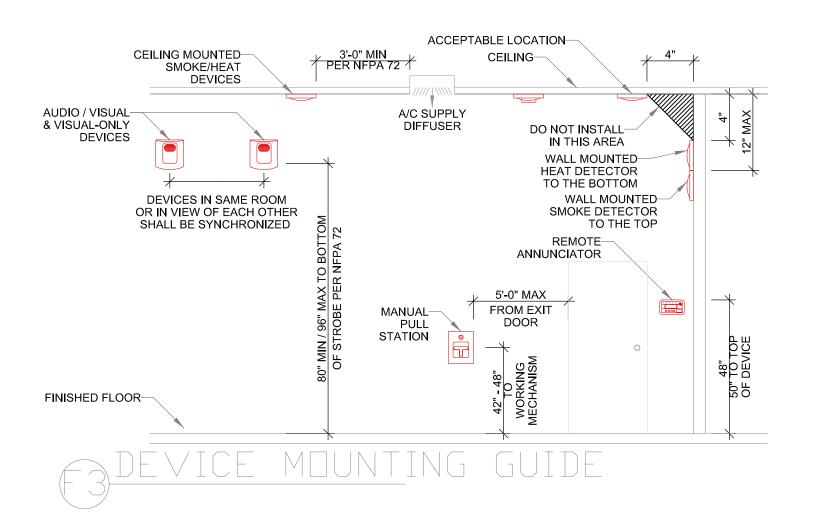
Building Permit

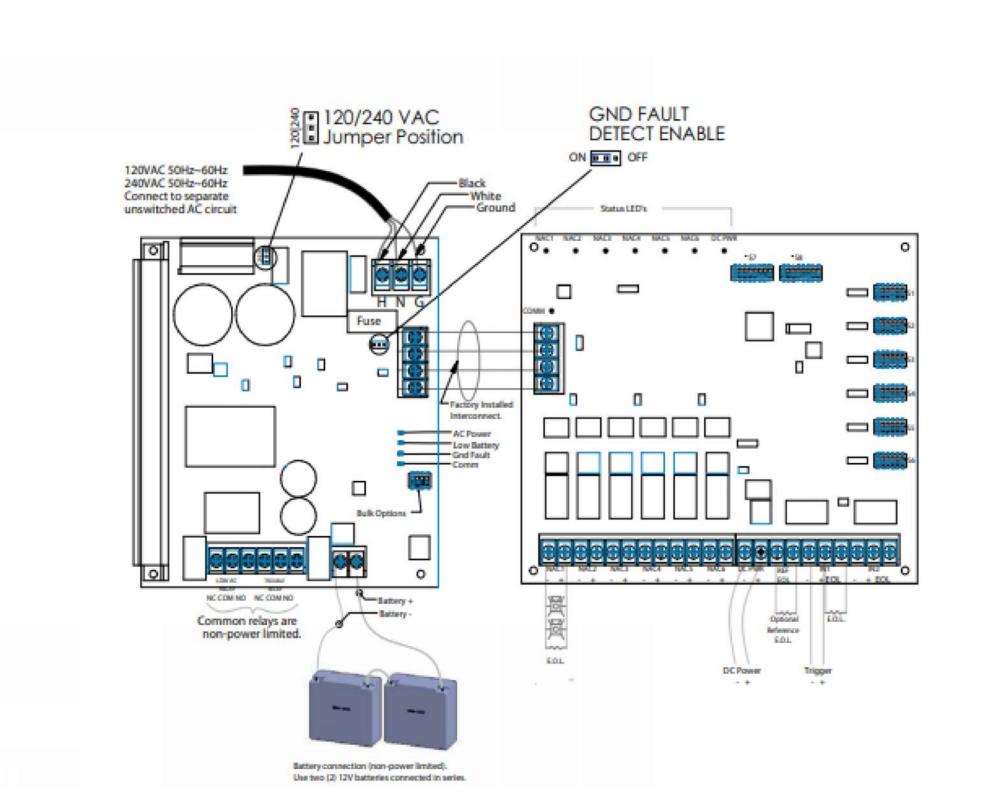
Drawing Number

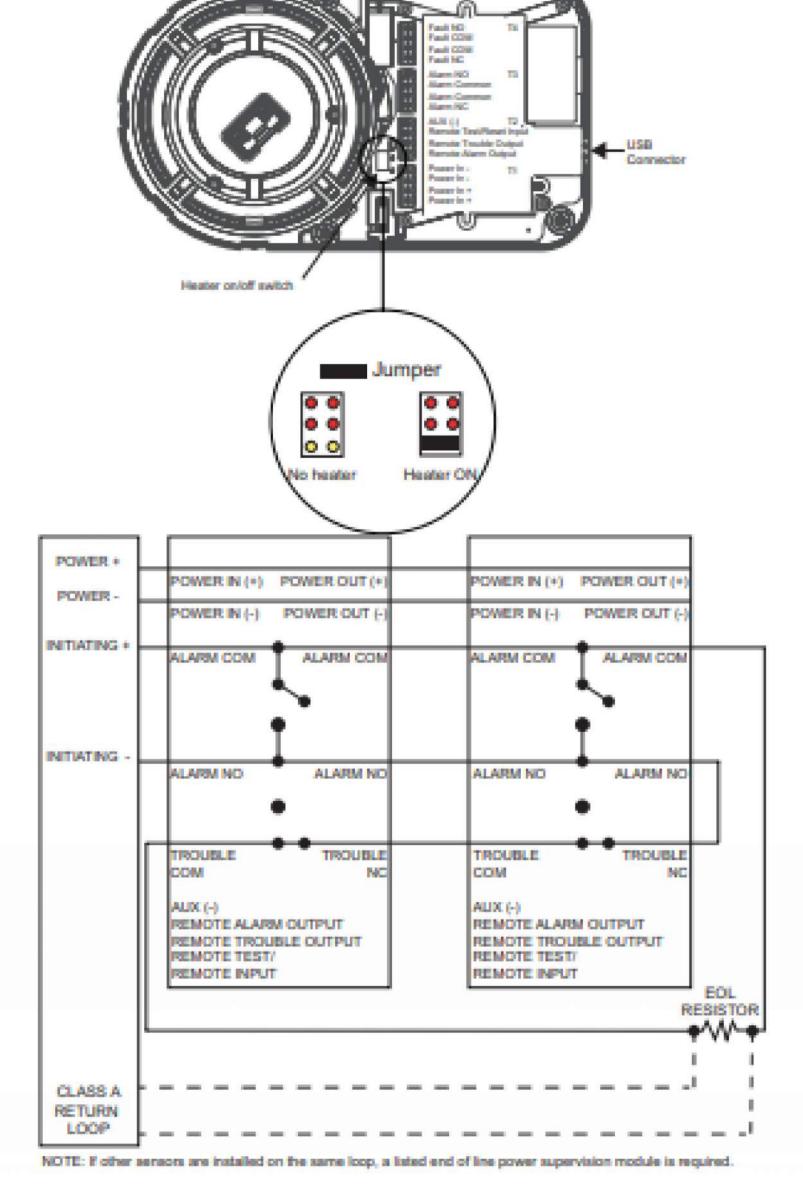
FA-04 SHEET 4 OF 6



SK5208 FIRE ALARM PANEL WIRING DETAIL (EXISTING) scale: None







BEAM DETECTOR WIRING DIAGRAM SCALE: NONE

BPS WIRING DIAGRAM



NICET
Fire Alarm
Systems Level III
Jonathon Dworsack
NICET # 149662
exp. 2028-03-01

Approvals Required

OWNER / ARCHITECT

Contract With

PUYALLUP SCHOOL DISTRICT

323 12TH STREET NW
PUYALLUP WA 98371
EMAIL: KLINKLE@PUYALLUPSD.ORG
PHONE: 253-435-6660

Contract Nam

PUYALLUP HIGH SCHOOL GYM/POOL

105 7TH STREET SW PUYALLUP WA 98371

Drawing Title

DETAILS

Ov Plan

City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
Engineering	Public Works			
Fire OF W	Traffic			

: NOVEMBER 11, 2025 Number: 10772

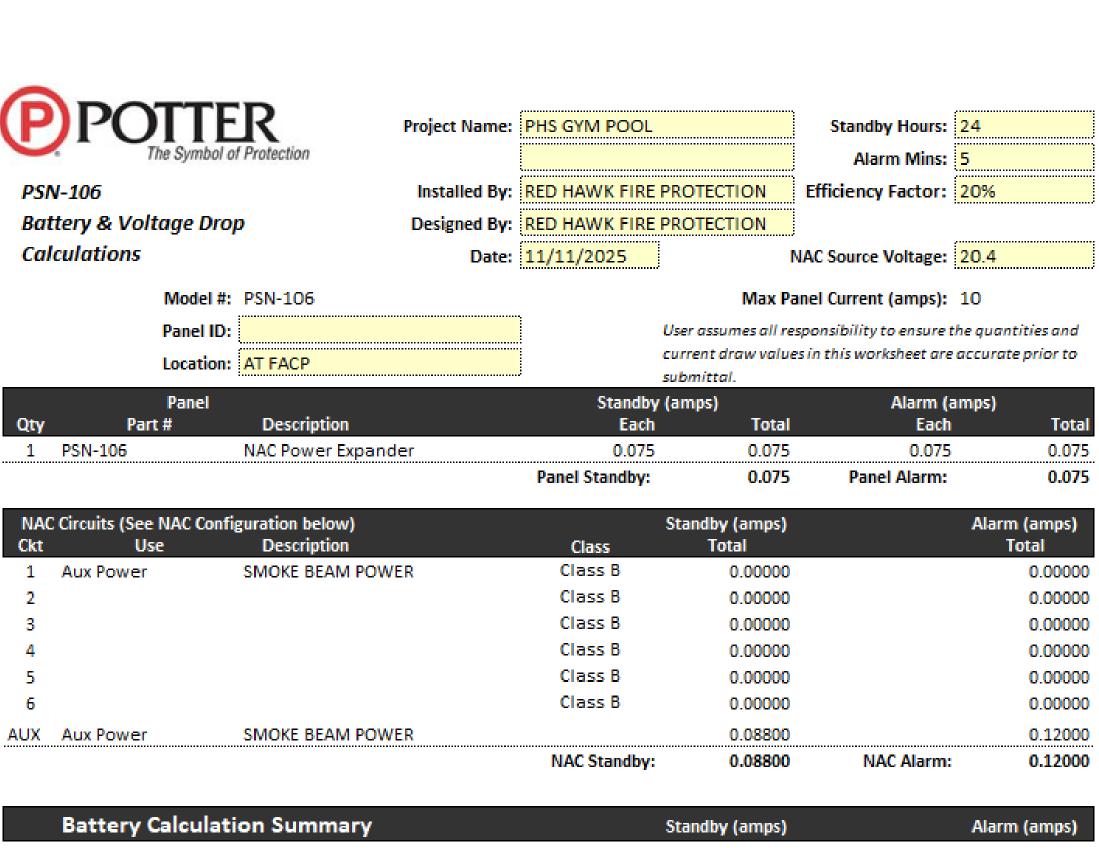
Designer: LINDSEY LESLIE

Drawing Number

FA-05 SHEET 5 OF 6







Battery Calculation Summary	Sta	andby (amps)		Alarm (amps)
	Panel Current:	0.07500		0.07500
NAC (Circuit Current:	0.08800		0.12000
	Total Standby:	0.163000	Total Alarm:	0.19500
s	tandby Hours:	24	Alarm Mins:	5
	AH Required:	3.92	AH Required:	0.02
Te	otal Combined Stan	dby & Alarm Amp	Hours Required:	3.94
		E	fficiency Factor:	20%
		Required Batt	ery AmpHours:	4.73
		Battery AmpH	ours Provided:	8

MAX Circuit Current (amps): 3

AUX Power

	Usage:	Aux Power	Description:	SMOKE BEAM PO	OWER	
	Wire Type	Ohms/1000ft Length 1-Way	Actual Ohms	Max Load (amps)	Volts @ Last Device	Min Volts Req'd
	#16 Stranded	▼ 5.29	0.000	0.120	20.40	16
	Circu	uit Devices	Standby	(amps)	Alarm (a	mps)
Qty	Lookup Type	Description	Each	Total	Each	Total
					0	
8	OSI-R-SS	SMOKE BEAM	0.011000	0.088000	0.015000	0.120000

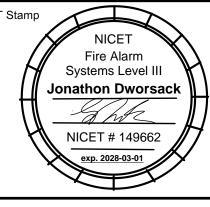
Total Standby:

Source Voltage Used (VDC): 20.4

Total Alarm:







Approvals Required

OWNER / ARCHITECT

Revisions

Contract With

PUYALLUP SCHOOL DISTRICT

323 12TH STREET NW
PUYALLUP WA 98371
EMAIL: KLINKLE@PUYALLUPSD.ORG
PHONE: 253-435-6660

Contract Name

PUYALLUP HIGH SCHOOL GYM/POOL

105 7TH STREET SW PUYALLUP WA 98371

Drawing Title

DETAILS

Key Plan

City of P Development & Pe ISSUED				
Building	Planning			
Engineering	Public Works			
Fire	Traffic			

ate: NOVEMBER 11, 2025

bb Number: 10772

3

Drawing Number

FA-06

SHEET 6 OF 6