

DRAWING DIRECTORY

SHEET #:	SHEET TITLE:
FA-01	COVER SHEET, BILL OF MATERIALS AND GENERAL INFORMATION
FA-02	DEVICE LAYOUT & BATTERY CALCULATIONS

MONITORING COMPANY INFORMATION

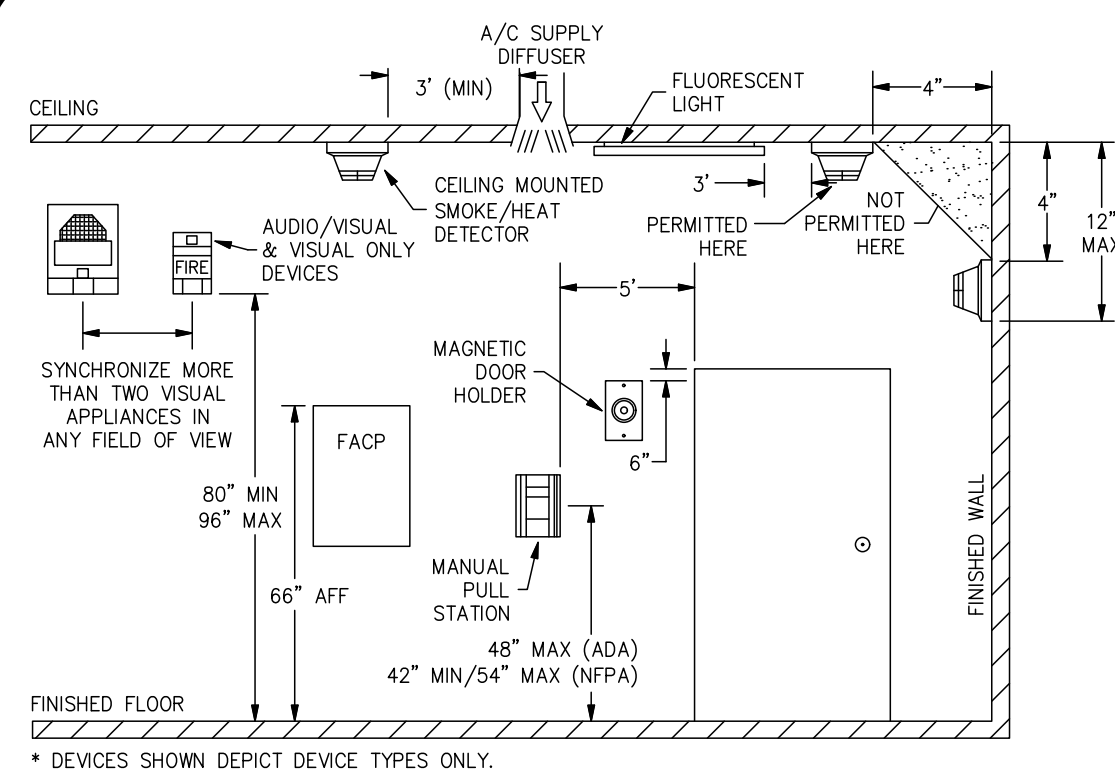
COMPANY NAME	ALARM CENTER INC.
PHONE NUMBER	1-800-752-2490
ADDRESS	4500 3RD AVE SE #1, LACEY, WA 98503
ACCOUNT NUMBER	T.B.D.
RECEIVER NUMBER 1	N/A
RECEIVER NUMBER 2	N/A

CONSULTANTS

PROJECT NAME:
 PUYALLUP RIVER ROAD
 1002 N. MERIDIAN ST.
 PUYALLUP, WA 98371
 FIRE ALARM SUPPLIER:
 NORTHWEST FIRE SYSTEMS
 22645 83RD AVE S.
 KENT, WA 98032
 PHONE: (206)772-7502
 WWW.NWFIRESYSTEMS.COM

REFERENCES:
 NFPA 70 NATIONAL ELECTRICAL CODE (2020)
 NFPA 72 NATIONAL FIRE CODE (2020)
 UL-864 AND OTHER APPLICABLE STANDARDS
 COMPLETE FIRE PROTECTION SYSTEM, UL LISTED
 CONFORM TO REQUIREMENTS OF NFPA APPLICABLE SECTIONS
 THE AMERICAN DISABILITIES ACT (ADA)
 CITY OF PUYALLUP FIRE CODE (2021)
 ALL MANUFACTURER GUIDELINES AND REQUIREMENTS

EQUIPMENT MOUNTING HEIGHTS



GENERAL FIRE ALARM 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.

PUYALLUP RIVER ROAD FIRE ALARM SYSTEM TI 1002 N. MERIDIAN ST. PUYALLUP, WA 98371

SCOPE OF WORK:

NORTHWEST FIRE SYSTEMS WILL BE REPLACING THE EXISTING MALFUNCTIONING CONVENTIONAL FIRE ALARM PANEL WITH A NEW CONVENTIONAL FIRE ALARM PANEL. THE EXISTING AES RADIO WILL ALSO BE REPLACED WITH A NEWER MODEL TO ENSURE CONTINUES MONITORING OF THE FIRE ALARM SYSTEM. ONE MANUAL PULL STATION WILL BE INSTALLED IN THE NAIL & SPA SUITE. ALL EXISTING NOTIFICATION AND INITIATING DEVICES WILL REMAIN AS IS. CURRENT READINGS HAVE BEEN TAKEN OF THE EXISTING SYSTEM TO PROVIDE BATTERY CALCULATIONS FOR THE NEW FACP.

NOTE THE BUILDING HAS COMPLETE SPRINKLER COVERAGE.

THIS DRAWING CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION OF NORTHWEST FIRE SYSTEMS. ALL RIGHTS ARE EXPRESSLY RESERVED. IT IS SUBMITTED UNDER A TRUST RELATIONSHIP FOR YOUR USE IN CONSIDERING THE PURCHASE OF THE EQUIPMENT DESCRIBED HEREON FROM NORTHWEST FIRE SYSTEMS. THIS DRAWING IS NOT TO BE USED FOR ANY OTHER PURPOSE NOR COPIED IN WHOLE OR PART NOR ITS DESIGN FEATURES USED IN OTHER PRODUCTS WITHOUT OUR WRITTEN CONSENT. IT IS TO BE RETURNED WHEN NO LONGER REQUIRED, OR UPON REQUEST.

LEGEND	PART NUMBER	QTY.	DESCRIPTION
FACP	SK-5802	1	FIRE ALARM CONTROL PANEL
	12V8AH	2	12VDC 8AHR BATTERIES
AES	AES-7707	1	AES RADIO COMMUNICATOR
	12V10AH	1	12VDC 10AHR BATTERIES
F	BG-12	1	CONVENTIONAL DOUBLE ACTION PULL STATION

ABBREVIATIONS

FACP	FIRE ALARM CONTROL PANEL
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
WP	WEATHER PROOF
H/S	HORN STROBE
S	SMOKE DETECTOR
P	MANUAL PULL
H	HEAT DETECTOR
WF	WATERFLOW SWITCH
SCM	SUPERVISED CONTROL MODULE
MM	MONITOR MODULE
T	TAMPER SWITCH

SEQUENCE OF OPERATIONS

OUTPUT FUNCTIONS

SYSTEM ANNUNCIATION & TRANSMISSION

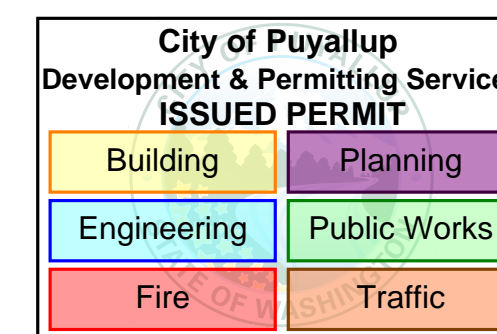
GREEN LED (AC POWER ON) WILL ILLUMINATE. ALL OTHER LED'S OFF (TROUBLE AND ALARM ARE OFF).

ALARM TROUBLE SUPERVISORY ALARM TROUBLE SUPERVISORY ON OFF

FIRE ALARM CONTROL PANEL
 CENTRAL MONITORING STATION
 NOTIFICATION DEVICES

	INPUT CONDITION						
TROUBLES	STANDBY CONDITION (NORMAL)	●					
	AC POWER FAILURE		●				
	ANY CIRCUIT - OPEN, SHORT, GROUND			●			
	ZONE TROUBLE			●			
	COMM. FAULT/AES TROUBLE			●			
	BATTERY FAULT - LOW/HIGH VOLTAGE			●			
SUPV.	SPRINKLER TAMPER SWITCH				●		
FIRE ALARM	FIRE ALARM PULL STATION					●	
	SMOKE DETECTOR						●
	HEAT DETECTOR						●
	SPRINKLER WATERFLOW SWITCH						●

NOTE: NOT ALL OF THE MATRIX IS NECESSARILY USED FOR THIS PROJECT.



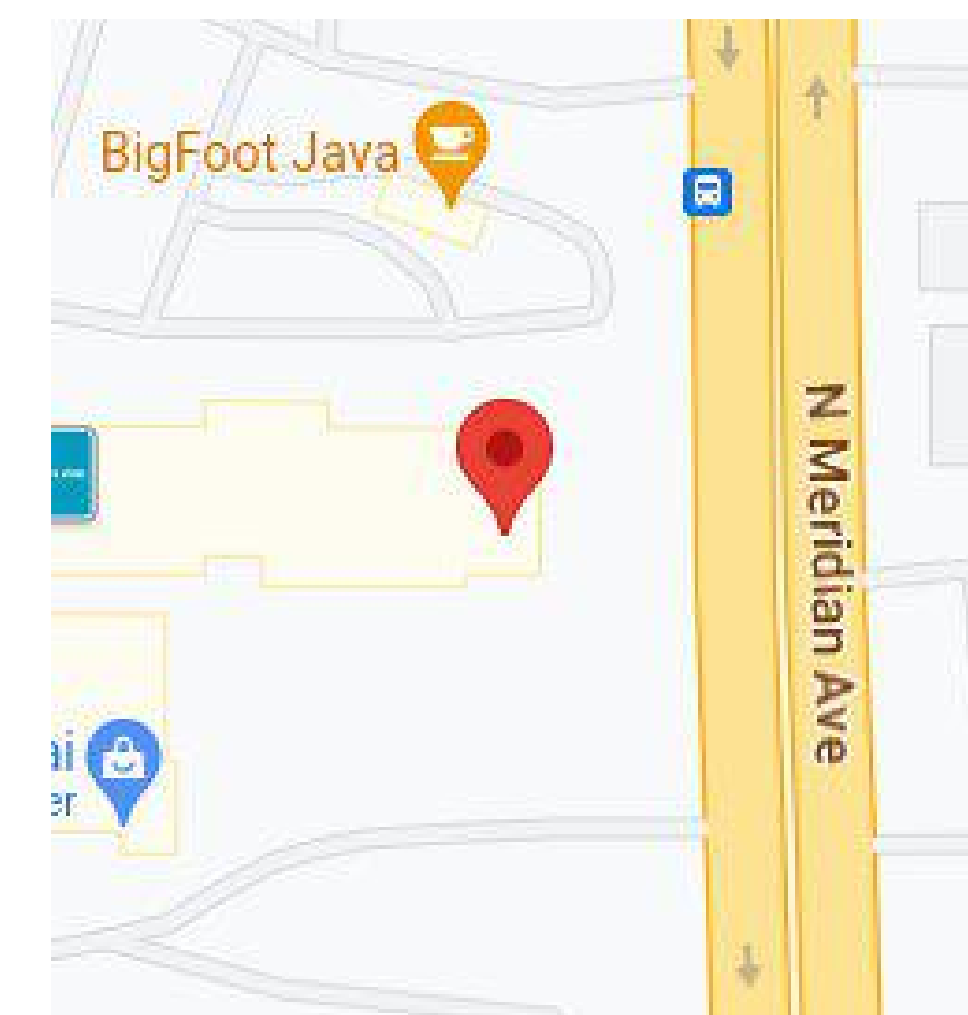
City of Puyallup Fire REVIEWED FOR COMPLIANCE

DDrake
 05/17/2023
 9:59:40 AM

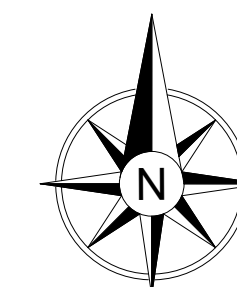


THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

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.



SITE MAP
 N.T.S.



NO.	BY	DATE	REVISION DESCRIPTION
0	J.S.	4/15/23	SUBMITTAL DRAWINGS

CONTRACT NAME:
 PUYALLUP RIVER ROAD RETAIL
 1002 N. MERIDIAN ST.
 PUYALLUP, WA 98371

CONTRACT WITH:
 PUYALLUP RIVER ROAD ASSOCIATES LLC
 1002 N. MERIDIAN ST.
 PUYALLUP, WA 98371
 ON-SITE CONTACT: TIM RUSSELL (206)409-1027

DRAWN BY: DATE:
 JOE SHELDON 4/15/23

DESIGNED BY: DATE:
 JOE SHELDON 4/15/23

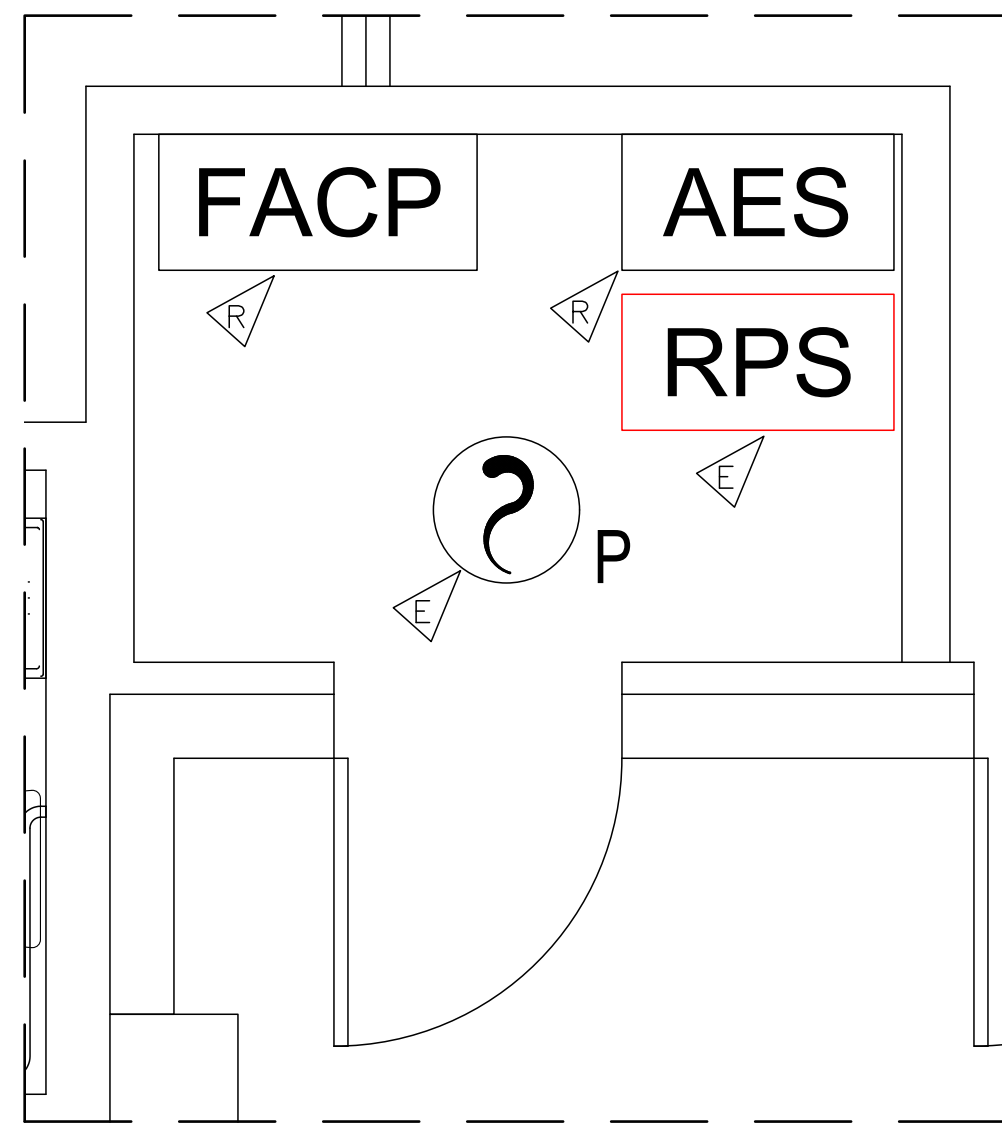
APPROVED BY: DATE:
 MIKE REGAN 4/18/23

NICET STAMP
 Michael Regan, ET
 NICET Level III Fire Alarm
 Technician ID: 144327
 Expires: 03/01/2026

PROJECT NUMBER:
 05165L

SHEET TITLE:
 COVER PAGE &
 GENERAL INFORMATION
 SHEET NUMBER:

FA - 01
 OF 02



1 FIRE SPRINKLER ROOM
SCALE: 1/2"=1'

Global Project Values:		Standby Hours: 24	
Project Name: PUYALLUP RIVER ROAD		Alarm Mins: 5	
Project ID: 05165L		Derating Factor: 1.2	
Prepared By: JOE SHELDON		Voltage Drop Warning Threshold %: 1%	
Date: 4/15/23			

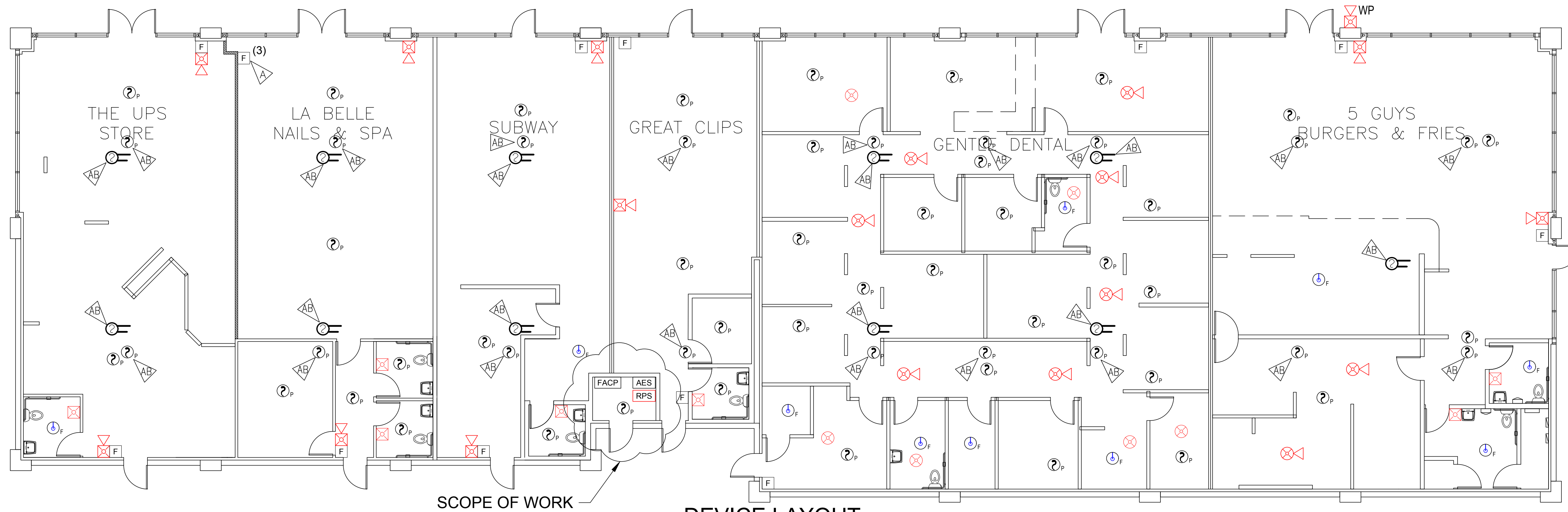
Panel ID: SK-5208	Model: SK-5208 Fire Alarm Control Panel	Max NAC Current: 3.0 Amps
Location: FIRE CONTROL ROOM	Volts: 24 VDC	Max Panel Current: 6.0 Amps

Ckt.#	Circuit Name	Qty	Current Draw		Wire AWG & Type	Ohms Per 1000 Ft.	Length(ft) One-Way	Actual Ohms	Volts @ EOL	%Drop	
			Standby	Alarm							
SK-5208	SK-5208 Main Control	1	0.140	0.550							
SK-5217	SK-5217 Zone Exprdr		0.000	0.000							
SK-5235	SK-5235 LCD Remote		0.000	0.000							
SK-5280	SK-5280 Display Mod		0.000	0.000							
SK-5220	SK-5220 Dir Con Mod		0.000	0.000							
SK-7181	SK-7181 Zn Chvtr		0.000	0.000							
IDC-1	Initiating Device Ckt 1		0.000	NA**							
IDC-2	Initiating Device Ckt 2		0.001	NA**							
IDC-3	Initiating Device Ckt 3		0.000	NA**							
IDC-4	Initiating Device Ckt 4		0.000	NA**							
IDC-5	Initiating Device Ckt 5		0.000	NA**							
IDC-6	Initiating Device Ckt 6		0.000	NA**							
IDC-7	Initiating Device Ckt 7		0.000	NA**							
IDC-8	Initiating Device Ckt 8		0.000	NA**							
IDC-9	Initiating Device Ckt 9		0.000	NA**							
IDC-10	Initiating Device Ckt 10		0.000	NA**							
IDC-11	Inactive, Add SK-5217		0.000	NA**							
IDC-12	Inactive, Add SK-5217		0.000	NA**							
IDC-13	Inactive, Add SK-5217		0.000	NA**							
IDC-14	Inactive, Add SK-5217		0.000	NA**							
IDC-15	Inactive, Add SK-5217		0.000	NA**							
IDC-16	Inactive, Add SK-5217		0.000	NA**							
IDC-17	Inactive, Add SK-5217		0.000	NA**							
IDC-18	Inactive, Add SK-5217		0.000	NA**							
IDC-19	Inactive, Add SK-5217		0.000	NA**							
IDC-20	Inactive, Add SK-5217		0.000	NA**							
IDC-21	Inactive, Add SK-5217		0.000	NA**							
IDC-22	Inactive, Add SK-5217		0.000	NA**							
IDC-23	Inactive, Add SK-5217		0.000	NA**							
IDC-24	Inactive, Add SK-5217		0.000	NA**							
IDC-25	Inactive, Add SK-5217		0.000	NA**							
IDC-26	Inactive, Add SK-5217		0.000	NA**							
IDC-27	Inactive, Add SK-5217		0.000	NA**							
IDC-28	Inactive, Add SK-5217		0.000	NA**							
IDC-29	Inactive, Add SK-5217		0.000	NA**							
IDC-30	Inactive, Add SK-5217		0.000	NA**							
NAC-1	Notification Appl Ckt 1		0.002	0.201	#14 Solid	2.52	2	0.01	20.40	0.01%	
NAC-2	Notification Appl Ckt 2		0.000	0.000	#14 Solid	2.52	0	0.00	20.40	0.00%	
NAC-3	Notification Appl Ckt 3		0.000	0.000	#14 Solid	2.52	0	0.00	20.40	0.00%	
NAC-4	Notification Appl Ckt 4		0.000	0.000	#14 Solid	2.52	0	0.00	20.40	0.00%	
Aux	Aux Power Out		0.000	0.000	#14 Solid	2.52		0.00	20.40	0.00%	
Total Standby Current (Amps)			0.144	0.751	Total Alarm Current (Amps)						
Standby Time In Hours			24	0.063	Alarm Time In Minutes / 60 (5 Mins)						
Total Standby AH Required			3.451	0.063	Total Alarm AH Required						
Total Combined AH Required			3.51		Command Shortcuts						
Multiply By The Derating Factor			1.20								
Minimum Battery Amphours Required			4.22								

LEGEND	
[FACP]	FIRE ALARM VOICE EVACUATION CONTROL PANEL
[RPS]	NOTIFICATION POWER SUPPLY (EXISTING)
[F]	CONVENTIONAL FIRE ALARM PULL STATION (EXISTING)
[?]	CONVENTIONAL SMOKE DETECTOR (EXISTING)
[H]	CONVENTIONAL HEAT DETECTOR (EXISTING)
[D]	CONVENTIONAL DUCT DETECTOR (EXISTING)
[H/W]	HORN/STROBES(CEILING MOUNT) (EXISTING)
[S/W]	STROBES(CEILING MOUNT) (EXISTING)
[S/W]	STROBES(WALL MOUNT) (EXISTING)
[H/W]	HORN/STROBES(WALL MOUNT) (EXISTING)

FLAG DESCRIPTIONS	
FLAG SYMBOL	DESCRIPTION
[A]	DEVICE TO BE ADDED
[AB]	DEVICE IS LOCATED ABOVE CEILING
[D]	DEVICE TO BE REMOVED
[E]	EXISTING DEVICE
[M]	EXISTING MEZZANINE DEVICE
[R]	DEVICE TO BE REPLACED

- NOTES**
- (1) ALL INITIATING AND NOTIFICATION DEVICES ARE EXISTING AND WILL REMAIN AS IS.
 - (2) EXISTING CIRCUIT INTEGRITY SHALL BE MAINTAINED.
 - (3) THE NEW PULL STATION IN THE LE BELLE NAIL & SPA SUITE WILL BE LOCATED ON THE WEST WALL CLOSEST TO THE FRONT DOORS. THE EXTERIOR WALL IS ALL GLASS.



DEVICE LAYOUT
SCALE: 1/8"=1'

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

NORTHWEST FIRE SYSTEMS Saving Lives and Protecting Property 22846 63RD AVE. S., BLDG D *KENT, WA 98032 PHONE: 206.772.7502 * FAX: 206.772.7504 WWW.NWFIRESYSTEMS.COM LIC # NORTHWEST876J	REVISION DESCRIPTION SUBMITTAL DRAWINGS
	DATE: 4/15/23 NO. BY: J.S. 0
CONTRACT NAME: PUYALLUP RIVER ROAD RETAIL 1002 N. MERIDIAN ST. PUYALLUP, WA 98371	CONTRACT WITH: PUYALLUP RIVER ROAD ASSOCIATES LLC 1002 N. MERIDIAN ST. PUYALLUP, WA 98371 ON-SITE CONTACT: TIM RUSSELL (206)409-1027
DRAWN BY: JOE SHELDON DESIGNED BY: JOE SHELDON APPROVED BY: MIKE REGAN	DATE: 4/15/23 DATE: 4/15/23 DATE: 4/18/23
MICHEL REGAN MICHEL REGAN NICET Level III Fire Alarm Technician ID: 144327 Expires: 03/01/2026	PROJECT NUMBER: 05165L
SHEET TITLE: DEVICE LAYOUT & BATTERY CALCULATIONS SHEET NUMBER: FA - 02 OF 02	