



# SYSTEM SUBMITTAL

# Costco Wholesale

1201 39th Ave. SW  
Puyallup, WA 98373



600 Oakesdale Ave., Ste 100  
Renton, WA 98057  
Tel: 425-970-4358  
Web: everonsolutions.com

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1201 39th Ave. SW  
Puyallup, WA 98373

## FIRE ALARM SYSTEM

PREPARED BY:  
This fire alarm shop drawing was prepared for equipment application only. The information contained herein is intended to aid in the installation of this system. No design changes have been made to the engineer of record's contract documents.



Benjamin B. Alban, ET  
NICET #106654  
FIRE ALARM SYSTEMS LVL III  
EXPIRES 12/31/2026

## - FIRE ALARM DRAWING INDEX -

SHEET NO.	SHEET DESCRIPTION
F000	COVER SHEET
F001	SYSTEM LAYOUT - NOTIFICATION DEVICES
F002	SYSTEM LAYOUT - INITIATING DEVICES
F003	SYSTEM RISER DIAGRAM
F004	SYSTEM CALCULATIONS

## FIRE ALARM SYMBOLS

SYMBOL	QTY	MANU.	PART NO	DESCRIPTION
[FACU]	1	POTTER	AFC-1000	FIRE ALARM CONTROL UNIT
[FACU]	1	POTTER	CA-6500	CLASS A EXPANDER
[FACU]	1	POTTER	UD-2000	D.A.C.T.
[FACU]	1	POTTER	PAD100-SLC(127PT)	SLC LOOP EXPANDER
[NAC]	2	POTTER	PSN-1000E	10A INTELLIGENT POWER SUPPLY
[CELL]	1	NAPCO	SLE-MAX2-CFB	UNIVERSAL FIRE COMMUNICATOR, DUAL SIM, DUAL PATH
[DOC]	1	SPACE AGE	SSU00690	FIRE ALARM DOCUMENT BOX
[F]	1	POTTER	PAD100-PSDA	ADDRESSABLE PULL STATION DUAL ACTION
[S] 6DB	18	POTTER	PAD300-PD W/PAD300-6DB	ADDRESSABLE PHOTO. SMOKE DET. (BELOW DROP TILE)
[S] 4DB	189	POTTER	PAD300-PD W/PAD300-4DB	ADDRESSABLE (WAREHOUSE CEILING)
[H] 6DB	9	POTTER	PAD300-HD W/PAD300-6DB	ADDRESSABLE HEAT DETECTOR, 135°F
[H]	10	POTTER	302-AW-135	HEAT DETECTOR, 135°F
[H]	2	POTTER	302-AW-194	HEAT DETECTOR, 194°F
[AIM] 2	7	POTTER	PAD100-DIM	DUAL INPUT MODULE
[AIM]	13	POTTER	PAD100-SIM	SINGLE INPUT MODULE
[AOM]	5	POTTER	PAD100-RM	RELAY MODULE
[IM]	12	POTTER	PAD100-IM	ISOLATOR MODULE
[WP]	10	SYSTEM	P2GRKLED	2-WIRE HORN STROBE, STANDARD CD, RED, OUTDOOR
[WP]	3	SYSTEM	P2WLED	2-WIRE, HORN STROBE, WHITE
[C, WP]	2	SYSTEM	PC2WKLED	2-WIRE, HORN STROBE, WHITE, OUTDOOR
[C]	42	SYSTEM	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE
[C, WP]	2	SYSTEM	SCWKLED	2-WIRE, CEILING STROBE, WHITE, OUTDOOR
[C]	42	SYSTEM	SCWLED	2-WIRE, CEILING STROBE, WHITE
[WP]	5	SYSTEM	SGWKLED	STROBE, STANDARD CD, WHITE, OUTDOOR
[WP]	6	SYSTEM	SWLED	STROBE, WALL, WHITE
[WF]	3	GENERIC	EXISTING	WET FIRE SPRINKLER RISER
[VS]	4	GENERIC	EXISTING	WATERFLOW SWITCH
[VS]	17	GENERIC	EXISTING	VALVE TAMPER SUPERVISORY SWITCH
[PS]	2	GENERIC	EXISTING	BACKFLOW PREVENTER WITH TAMPER
[PS]	2	GENERIC	EXISTING	PRESSURE ALARM SWITCH
[H/L]	2	GENERIC	EXISTING	HIGH / LOW PRESSURE SWITCH
[PIV]	2	GENERIC	EXISTING	POST INDICATOR VALVE WITH TAMPER
[KHSS]	2	GENERIC	EXISTING	KITCHEN HOOD SUPPRESSION SYSTEM
[HVLS]	2	GENERIC	EXISTING	HIGH VOLUME LOW SPEED FAN

## PROJECT INFORMATION

PROJECT INFORMATION:  
NAME OF PROJECT: Costco Wholesale  
ADDRESS: 1201 39th Ave. SW Puyallup, WA 98373  
PROPOSED USE: MERCANTILE

FIRE ALARM VENDOR:  
Everon, LLC.  
4221 W JOHN CARPENTER FWY  
IRVING, TX 75063  
877-357-1808

FIRE ALARM DESIGNER:  
BENJAMIN B. ALBAN, ET  
EVERON, LLC  
4221 W JOHN CARPENTER FWY  
IRVING, TX 75063

CENTRAL STATION LISTING  
CCN File No. Vol. No.  
UUFUX S2684 20

NICET III # 106654 817-393-9821

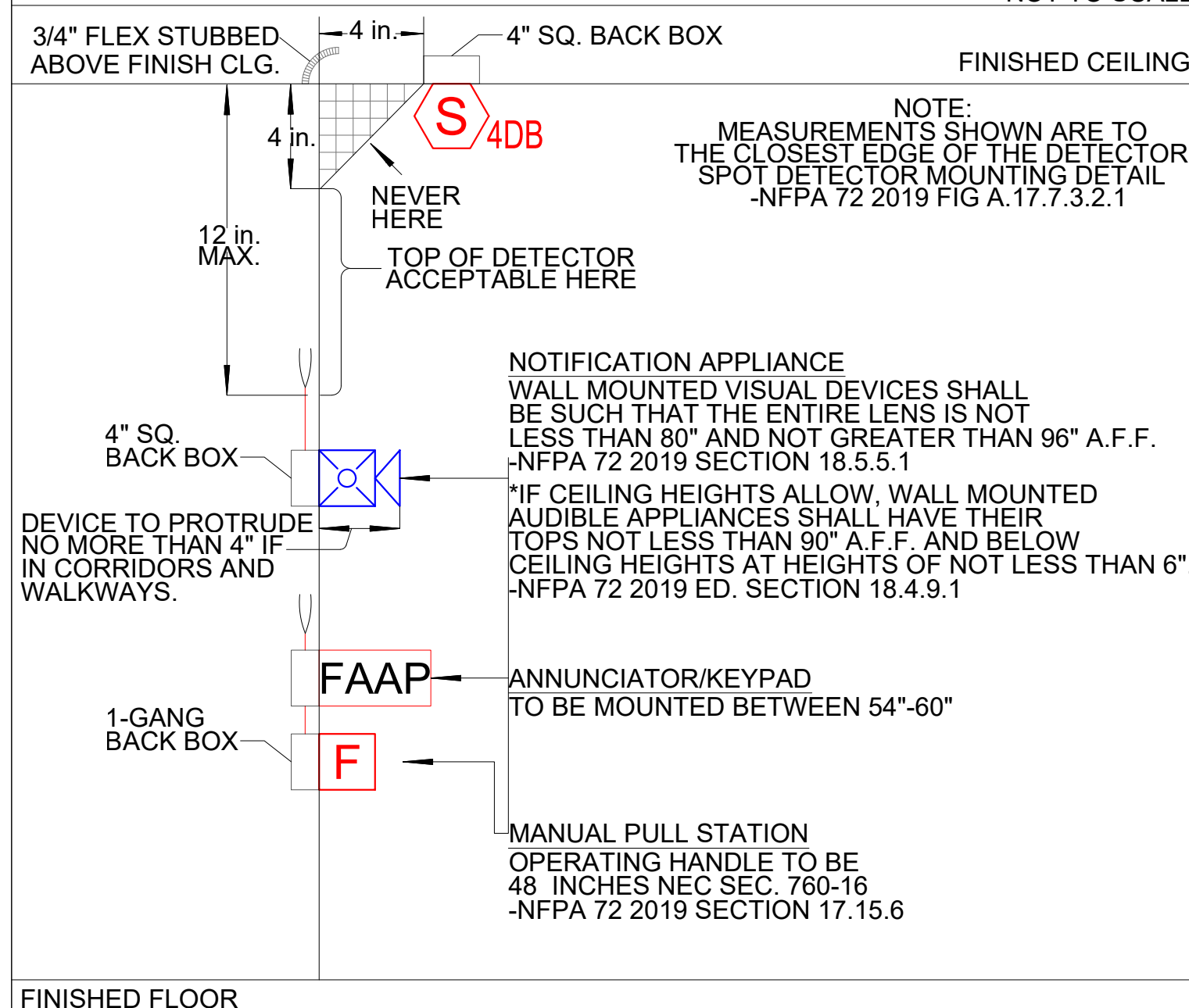
## BUILDING INFORMATION

- OCCUPANCY CLASSIFICATION M (1-STORY)
- OCCUPANCY USE MERCANTILE
- CONSTRUCTION TYPE III-B (FULLY SPRINKLERED)
- SURVIVABILITY LEVEL 0

## WIRE LEGEND

CABLE TYPE	DESCRIPTION	TYPICAL DEVICES	AWG
A	SIGNALING LINE CIRCUIT (SLC) CLASS 'A'	ADDRESSABLE SLC DEVICES	16/2* SOLID
485	FIRE ALARM ANNUNCIATOR CIRCUIT	FIRE ALARM ANNUNCIATOR	18/4* SOLID
C	24VDC POWER CIRCUIT	DEVICES REQUIRING 24 VDC	14/2* SOLID
RTS	REMOTE TEST SWITCH CIRCUIT (RTS)	REMOTE TEST SWITCH	18/2* SOLID
R	RELAY CIRCUIT	AC UNIT / HVLS FAN	14/2* SOLID
V	NOTIFICATION APPLIANCE CIRCUIT (NAC)	2-WIRE HORNS/STROBES	14/2* SOLID
Z	INITIATING DEVICE CIRCUIT (IDC)	CONVENTIONAL DEVICES	18/2* SOLID

## DEVICE MOUNTING DIAGRAM



## GENERAL NOTES

- POWER LIMITED WIRING SHALL BE SEPARATED FROM NON-POWER LIMITED ELECTRIC LIGHT, AND CLASS 1 CIRCUITS. A MINIMUM OF 2 INCHES.
- THE ELECTRICAL CONTRACTOR WILL PROVIDE A 120 V.A.C. 20 AMPS DEDICATED CIRCUIT TO LOCATION OF FIRE CONTROL PANEL/TRANSPONDER WITH A LOCK-ON TYP. C.B.
- CONSULT WITH OWNER AND/OR GENERAL CONTRACTOR FOR EXACT LOCATION OF THE FIRE CONTROL PANEL/TRANSPONDER PRIOR TO INSTALLATION.
- INSTALLER SHALL COORDINATE ALL WORK WITH THE OWNER & GENERAL CONTRACTOR AND ALL OTHER TRADES.

## ADDITIONAL NOTES

- ABOVE GROUND WATER SUPPLY DETECTOR CHECK TAMPER SHALL CAUSE A SUPERVISORY SIGNAL AT THE PANEL AND THE CENTRAL STATION.
- FIRE CONTROL PANEL/DACT IS INHERENTLY POWER LIMITED AND SIGNALING AND CARRIER, WHERE AVAILABLE (SEC. 26.6.3.2.1.5(7))
- CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT". PER SECTION 10.6.5.2.1 - 10.6.5.2.4
- A COPY OF THE RECORD OF COMPLETION SHALL BE PRESENTED TO THE FIRE DEPARTMENT OFFICIAL AND THE ORIGINAL SHALL STAY WITH THE SYSTEM.
- MOUNTING OF ALL DEVICES TO COMPLY WITH NFPA 72. REFER TO MANUFACTURER'S CUT SHEETS FOR MORE INFORMATION ON THE DEVICES.
- A SEPERATE CABINET / ENCLOSURE SHALL BE PROVIDED AND MARKED "FIRE ALARM DOCUMENTS" (FIRE ALARM / SPRINKLER MONITORING PLANS SHALL BE STORED IN THE ENCLOSURE). LOCATED NEAR FACP.
- FIRE ALARM CONTROL PANEL SHALL BE LOCATED IN AN ENVIRONMENTALLY CONTROLLED, CLEAN & FREE OF DEBRIS ROOM. CONTROL PANEL FOR FIRE ALARM ONLY.
- ALL WIRING AND CABLING METHODS WILL COMPLY WITH N.F.P.A. 70-760-28 STANDARDS. BY WAY OF PROTECTING ALL WIRING WITHIN 7 FEET FROM THE FINISHED FLOOR IN CONDUIT STUB-UP AND BY CONCEALING ALL WIRING IN WALLS, CEILING AND PROTECTIVE BUILDING ELEMENTS.
- NO "T" TAPPING OF FIELD WIRING IS PERMISSIBLE IN SUPERVISED CIRCUITS, DATA CIRCUITS ARE EXCLUDED.

## REVISIONS

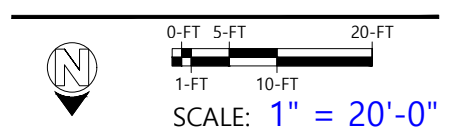
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## CODES ADOPTED BY LOCAL AHJ

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL FIRE CODE
- 2023 NATIONAL ELECTRICAL CODE
- 2019 NFPA 72 NATIONAL FIRE ALARM CODE

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PREPARED BY: BBA  
CHECKED BY: BBA  
PROJECT MANAGER: 66955  
DATE: 14-JAN-2026  
PROJECT NO: 301102351  
TITLE: COVER SHEET



### FIRE ALARM SYSTEM

PREPARED BY:  
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**NICET CERTIFIED**  
 Benjamin B. Alban, ET  
 NCEI #10654  
 FIRE ALARM SYSTEMS LVL III  
 EXPIRES 12/31/2026

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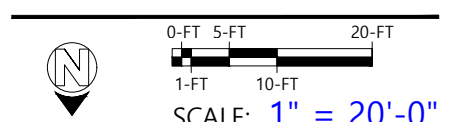
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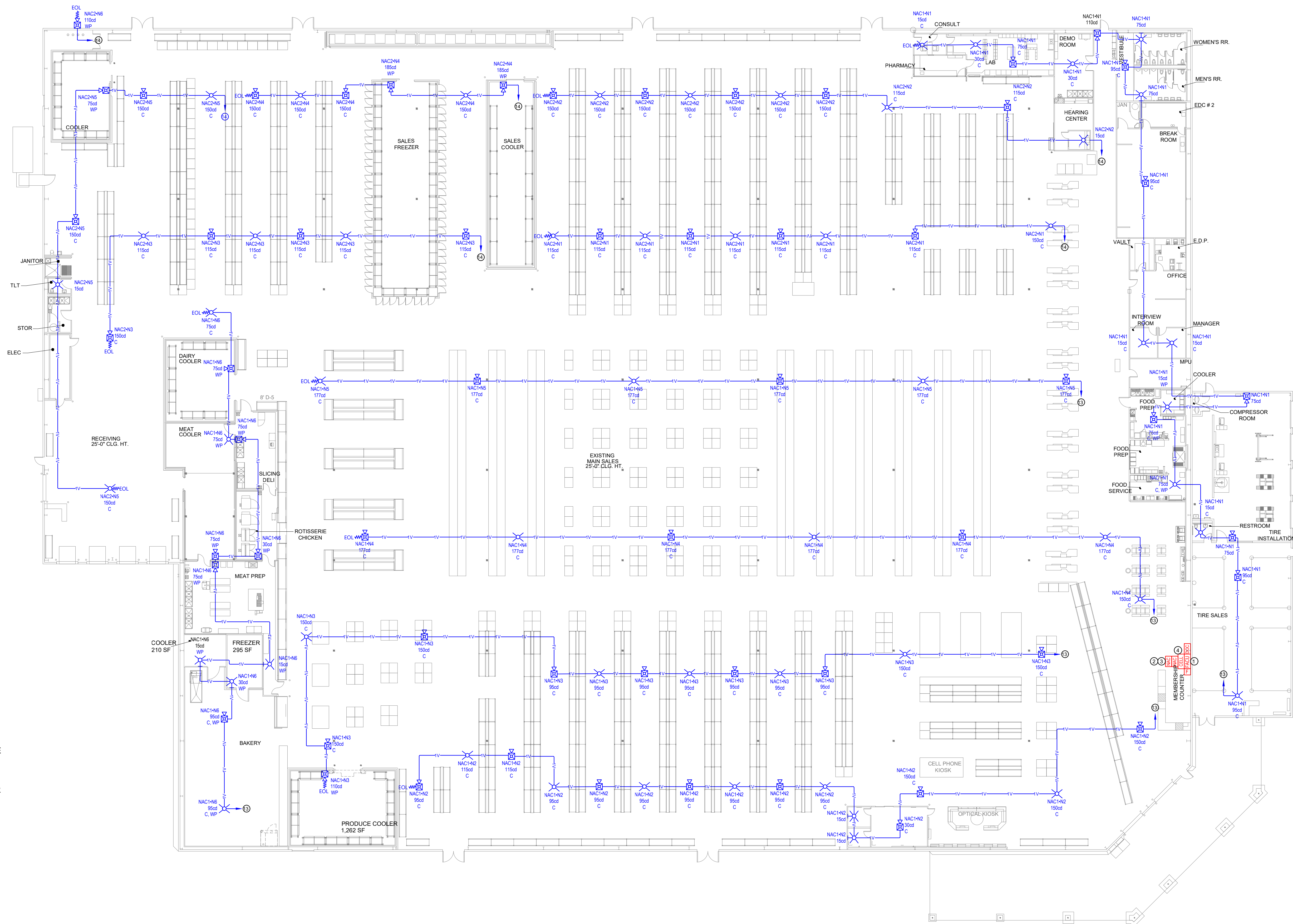


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 CHECKED BY: **BBA**  
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 TITLE:

### SYSTEM LAYOUT - NOTIFICATION

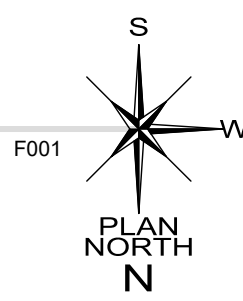
SHEET:

F001



### NOTIFICATION FLOOR PLAN

SCALE: 1" = 20'-0"



### GENERAL NOTES:

- COORDINATE INSTALLATION OF ALL CEILING MOUNTED DEVICES WITH OTHER TRADES.
- INSTALL ALL RELAYS WITHIN THREE FEET OF THE DEVICE BEING CONTROLLED PER NFPA 72 SECTION 21.2.4\*.
- DO NOT INSTALL ANY SMOKE DETECTOR CLOSER THAN 3 FEET FROM A DIFFUSER OR 12 INCHES FROM A LIGHTING FIXTURE.
- MANUAL PULL STATIONS ARE NOT REQUIRED THROUGHOUT SINCE THIS IS A FULLY SPRINKLERED BUILDING WITH COMPLETE OCCUPANT NOTIFICATION PER IFC 907.2.7, EXCEPTION 2.
- AREAS WITH OPEN CEILINGS ABOVE 30'-0" A.F.F., INSTALL ALL NOTIFICATION DEVICES WITH THE DEVICE LENS AT 30'-0" A.F.F. MAXIMUM.
- ANY FIRE ALARM SYSTEM WIRING SHOWN ON THE PLANS IS FOR REFERENCE ONLY. THE INSTALLING CONTRACTOR SHALL VERIFY EXACT WIRE AND ROUTING REQUIREMENTS PRIOR TO INSTALLATION.
- FIELD VERIFY ALL LOCATIONS AND QUANTITY OF SPRINKLER SYSTEM EQUIPMENT PRIOR TO INSTALLATION.

### KEYED NOTES: #

- NEW FIRE ALARM CONTROL PANEL. LOCATE SMOKE DETECTOR NEAR THE FACP PER NFPA 72 10.4.5\*(1). CONNECT TO 120VAC PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. INSTALLING CONTRACTOR TO VERIFY LOCATION OF FACP WITH THE BUILDING OWNER.
- NEW NAC POWER SUPPLY PANEL(S). LOCATE SMOKE DETECTOR NEAR THE NAC PANEL(S) PER NFPA 72 10.4.5\*(1). CONNECT TO 120VAC PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- EXTEND WIRING TO ADDITIONAL NAC POWER SUPPLY(S) AS NECESSARY. COORDINATE EXACT QUANTITY PRIOR TO INSTALLATION.
- CONFIRM LOCATION OF THE FIRE ALARM DOCUMENT CABINET AND DUAL PATH CELLULAR AND IP NETWORK COMMUNICATOR WITH THE OWNER.
- LINE ISOLATION MODULES. CONTRACTOR TO PLACE LINE ISOLATION MODULE BEFORE THE FIRST DEVICE ON THE SIGNALING LINE CIRCUIT (SLC) AND AFTER EACH 25 DEVICES ON THE CLASS A SLC.
- INTERFACE I/O CIRCUIT #1 WITH THE RED EXTERIOR NOTIFICATION APPLIANCE LOCATED ABOVE THE FIRE DEPARTMENT CONNECTION. PROGRAM I/O CIRCUIT TO ALARM ON SPRINKLER WATERFLOW. HOMERUN 24VDC WIRING TO THE FACP LOCATED AT THE MEMBERSHIP DESK. INSTALLING CONTRACTOR TO VERIFY THE LOCATION AND MOUNTING HEIGHT OF THE EXTERIOR NOTIFICATION APPLIANCE WITH THE AHJ PRIOR TO INSTALLATION.
- EXISTING WET SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- EXISTING DRY SPRINKLER SYSTEM RISERS. COORDINATE WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- EXISTING BACKFLOW PREVENTER AND POST INDICATOR VALVE. COORDINATE LOCATION AND QUANTITY WITH FIRE SPRINKLER CONTRACTOR PRIOR TO INSTALLATION OF MONITOR MODULES.
- INTERFACE RELAY WITH THE HIGH VOLUME LOW SPEED (HVLS) FANS FOR SHUTDOWN.
- INTERFACE TWO INPUT MODULES WITH THE KITCHEN HOOD SUPPRESSION SYSTEM TO MONITOR ALARM AND TROUBLE CONDITIONS. FIELD VERIFY EXACT QUANTITY OF CONTACTS NEEDED FOR MONITORING OF THE KITCHEN HOOD SUPPRESSION SYSTEM.
- CONTRACTOR TO INSTALL NOTIFICATION APPLIANCE IN A MANNER TO ENSURE VISIBILITY OF THE NOTIFICATION APPLIANCE IS NOT IMPAIRED BY RACKING.
- HOMERUN WIRING TO POWER SUPPLY NAC #1 AT THE MEMBERSHIP DESK.
- HOMERUN WIRING TO POWER SUPPLY NAC #2 AT THE MEMBERSHIP DESK.
- RISER DIAGRAM IS FOR DIAGRAMMATICAL PURPOSES ONLY. CONTRACTOR TO COORDINATE ANY REQUIRED WIRE ROUTING AND ASSOCIATED REQUIREMENTS PRIOR TO INSTALLATION. REFER TO F001 & F002 FOR DEVICE PLACEMENT.

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**NICET**  
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NICET #106634  
FIRE ALARM SYSTEMS LVL III  
EXPIRES 12/31/2026

REVISIONS

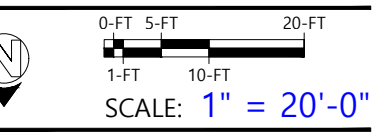
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CODES ADOPTED BY LOCAL AHI

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CHECKED BY: **BBA**

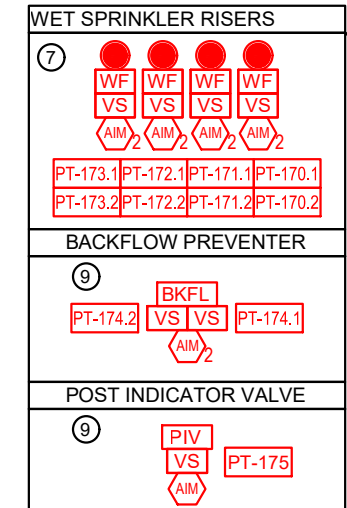
PROJECT MANAGER: **66955**

DATE: **14-JAN-2026**

PROJECT NO.: **301102351**

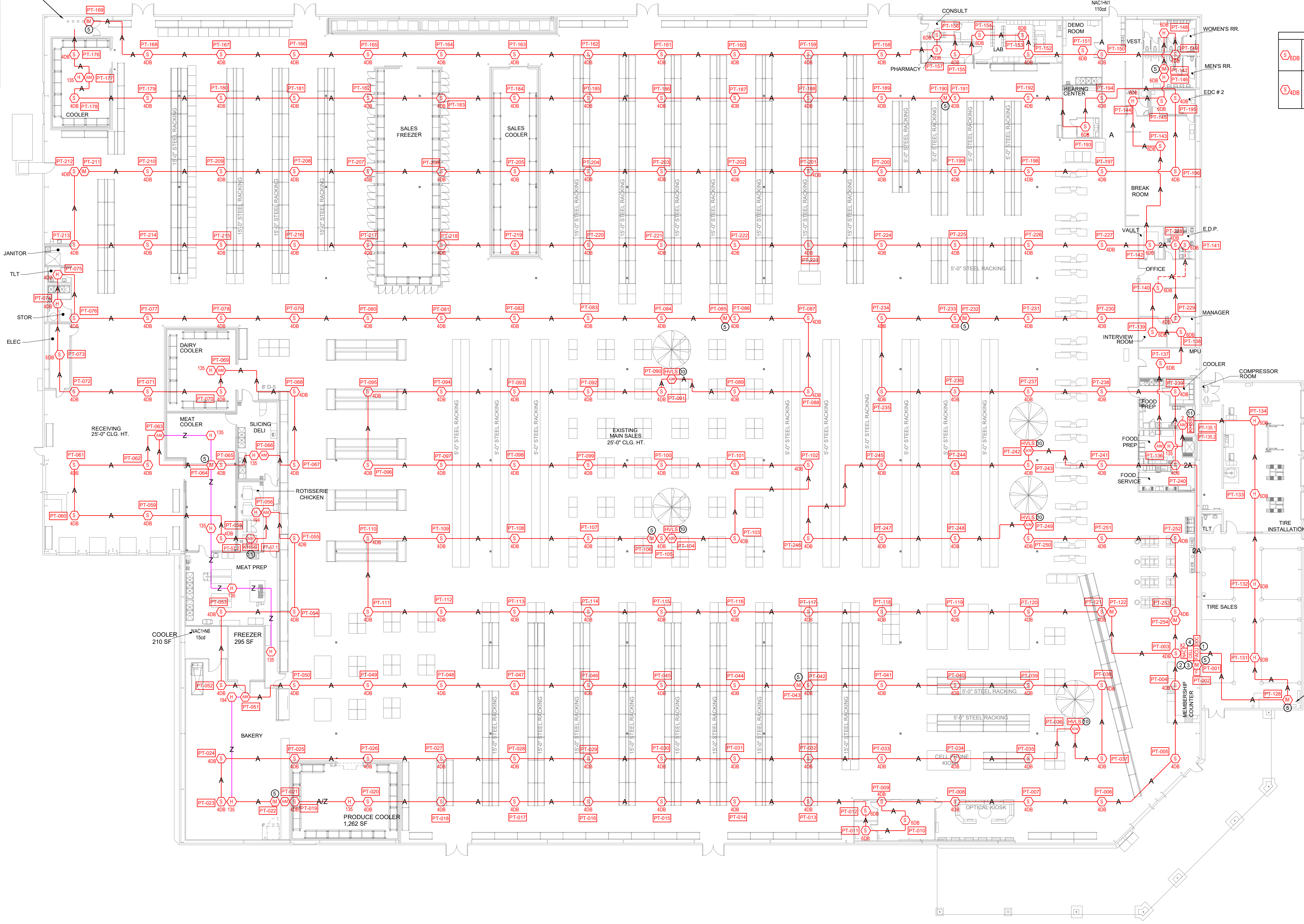
TITLE: **SYSTEM LAYOUT - INITIATION**

SHEET: **F002**



**DEVICE NOTES**

	PHOTOELECTRIC SMOKE DETECTOR WITH 6" STANDARD BASE - LOW CEILING
	PHOTOELECTRIC SMOKE DETECTOR WITH 4" STANDARD BASE - HIGH CEILING



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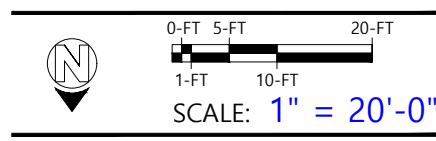
**NICET**  
 CERTIFIED  
 Benjamin B. Alban, ET Benjamin B. Alban  
 NACET #10664  
 FIRE ALARM SYSTEMS LVL III 1/14/2026  
 EXPIRES 12/01/2026

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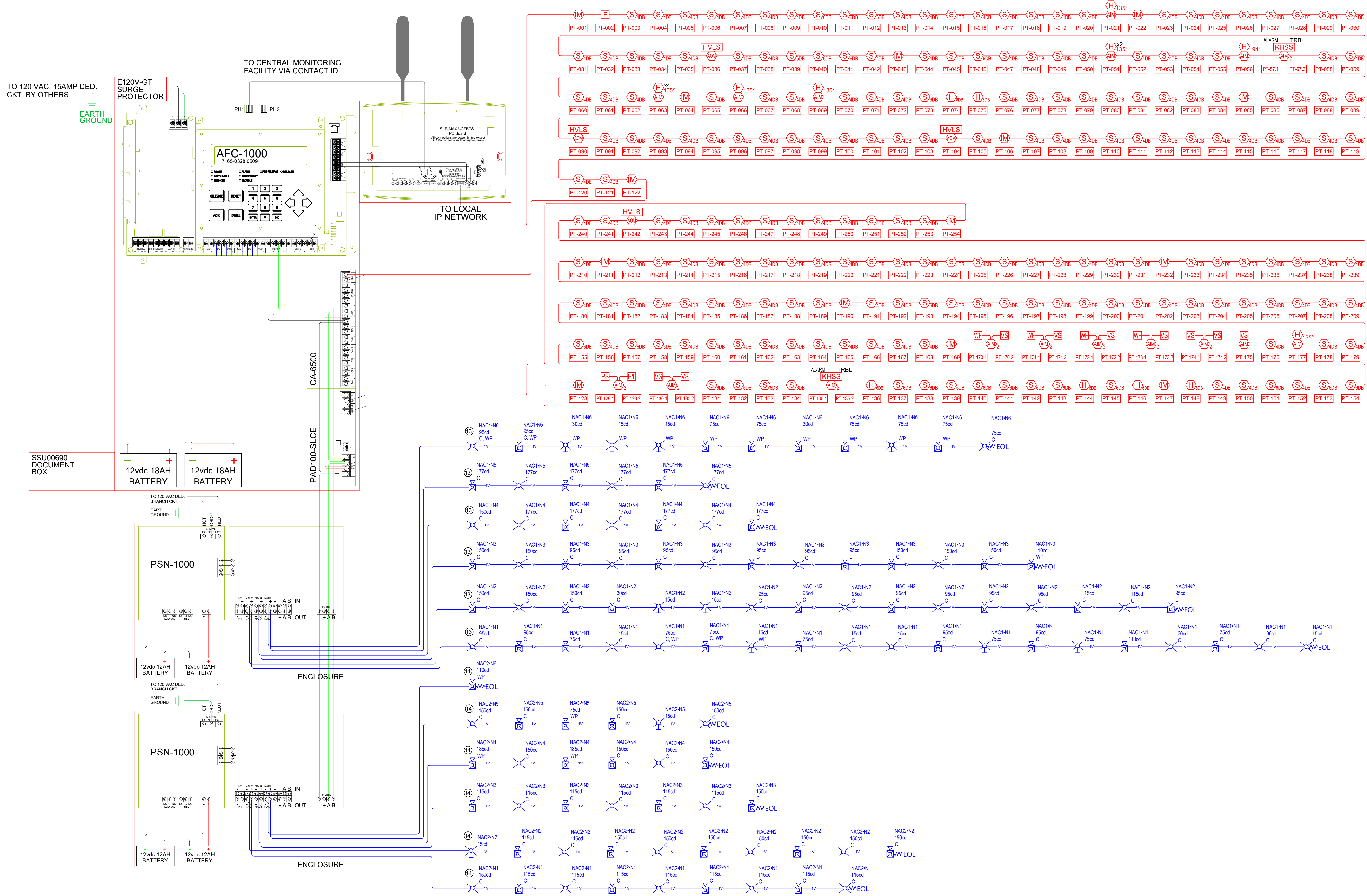


PREPARED BY: **BBA**  
 CHECKED BY: **BBA**  
 PROJECT MANAGER: **66955**  
 DATE: **14-JAN-2026**  
 PROJECT NO: **301102351**  
 TITLE:

**SYSTEM RISER**

SHEET:

**F003**



**SYSTEM RISER**  
 SCALE: N.T.S. F002

Potter Fire Alarm Panel					
QUANTITY	Devices	STANDBY		ALARM	
		EACH	TOTAL	EACH	TOTAL
Fire Alarm Control Panel					
1	AFC-1000 MAIN PANEL	0.130	0.130	0.220	0.220
1	UD-2000 DACT BOARD	0.016	0.016	0.023	0.023
1	CA-6500 CLASS 'A' MODULE	0.060	0.060	0.100	0.100
1	PSN-1000 NAC BOOSTER PANEL	0.015	0.015	0.015	0.015
0		0.000	0.000	0.000	0.000
			0.221		0.358
Initiating devices					
1	PAD100-PSDA FULL STATION	0.000200	0.000200	0.000200	0.000200
5	PAD100-RM RELAY MODULE	0.000240	0.001200	0.000240	0.001200
9	PAD300-HD HEAT DETECTOR	0.000300	0.002700	0.000300	0.002700
3	PAD300-IM ISOLATION MODULE	0.000100	0.000300	0.002750	0.008250
11	PAD100-DIM DUAL INPUT MODULE	0.000240	0.002640	0.000240	0.002640
8	PAD100-SIM INPUT MODULE	0.000240	0.001920	0.000240	0.001920
207	PAD300-PD SMOKE DETECTOR	0.000300	0.062100	0.000300	0.062100
1	PAD100-SLCE SLC EXPANDER	0.050000	0.050000	0.050000	0.050000
10	302-AW-135 HEAT DETECTOR	0.000000	0.000000	0.000000	0.000000
2	302-AW-194 HEAT DETECTOR	0.000000	0.000000	0.000000	0.000000
0		0.000000	0.000000	0.000000	0.000000
			0.121060		0.129010
Notification circuits (see additional sheet for circuit configuration)					
0	Circuit # 1	0.000	0.0000	0.0000	0.0000
0	Circuit # 2	0.000	0.0000	0.0000	0.0000
0	Circuit # 3	0.000	0.0000	0.0000	0.0000
0	Circuit # 4	0.000	0.0000	0.0000	0.0000
0	Circuit # 5	0.000	0.0000	0.0000	0.0000
0	Circuit # 6	0.000	0.0000	0.0000	0.0000
1	Circuit IO #1	0.085	0.0850	0.3250	0.3250
0	Circuit IO #2	0.000	0.0000	0.0000	0.0000
0	Circuit IO #3	0.000	0.0000	0.0000	0.0000
0	Circuit IO #4	0.000	0.0000	0.0000	0.0000
			0.085		0.325
Total stand by current			0.42706		
X Stand by hours			24		
Stand by amp/hours			10.25		
Total Alarm Current				0.812010	
X alarm Minutes (5)/60				0.083	
Alarm Total amp/hours				0.07	
Total Amp/hours				10.32	
X Derating factor of 25%				1.25	
Minimum Battery Size				12.90	
Battery Selected			18	AMP HOUR	

### FACU BATTERY CALC

SCALE: N.T.S. F003



POTTER PSN-1000  
UL derated

Project: COSTCO WAREHOUSE

Date: 01.14.26

Rev. 05-19-17 BBA

Prepared By: BBA

95% Contingency Factor Added for 5% change 1.2 to 1.25 in formula for Recommended A/H Battery

NPS #1 NAC CKTS (1-6)	Total Device Standby A/H	Total Device Alarm A/H	Wire AWG & Type	OHMS/1000 ft.	Length (Feet)	Actual OHMS	Volts @ EOL	Voltage Drop %
Circuit # NAC1.N1	0.000	1.137	#14AWG Solid	3.19	540	3.45	16.48	19.20%
Circuit # NAC1.N2	0.000	1.440	#14AWG Solid	3.19	425	2.71	16.50	19.14%
Circuit # NAC1.N3	0.000	1.474	#14AWG Solid	3.19	450	2.87	16.17	20.74%
Circuit # NAC1.N4	0.000	1.025	#14AWG Solid	3.19	400	2.55	17.78	12.92%
Circuit # NAC1.N5	0.000	0.915	#14AWG Solid	3.19	500	3.19	17.48	14.31%
Circuit # NAC1.N6	0.000	0.751	#14AWG Solid	3.19	780	4.98	16.66	18.32%
PSN-1000	0.060	0.200						
<b>Total Current</b>	<b>0.060</b>	<b>6.942</b>						

Summary Section	Value
Standby Hrs. Required	24
Alarm Sounding Minutes	5
Total System Standby A/H	1.44
Total System Alarm A/H	0.58
Min. A/H Battery Required	2.02
Recommended A/H Battery **	2.52

TOTAL BACKUP BATTERY PROVIDED: 7 Amp Hours

Recommended A/H Battery \*\* 2.52 TOTAL BACKUP BATTERY PROVIDED: 7 Amp Hours

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
2	24 SYSTEM SENSOR P2RLED WALL MNT A/V 75cd	0.000	0.087	0.000	0.174
1	26 SYSTEM SENSOR P2RLED WALL MNT A/V 110cd	0.000	0.094	0.000	0.094
1	53 SYSTEM SENSOR PC2RLED WP CLG MNT A/V 75cd	0.000	0.087	0.000	0.087
1	16 SYSTEM SENSOR PC2RLED CLG MNT A/V 75cd	0.000	0.087	0.000	0.087
3	17 SYSTEM SENSOR PC2RLED CLG MNT A/V 95cd	0.000	0.092	0.000	0.276
1	68 SYSTEM SENSOR SCRLED WP CLG MNT V/O 75cd	0.000	0.070	0.000	0.070
4	29 SYSTEM SENSOR SCRLED CLG MNT V/O 15cd	0.000	0.018	0.000	0.072
2	30 SYSTEM SENSOR SCRLED CLG MNT V/O 30cd	0.000	0.022	0.000	0.044
1	32 SYSTEM SENSOR SCRLED CLG MNT V/O 95cd	0.000	0.075	0.000	0.075
1	58 SYSTEM SENSOR SGRKLED WP WALL MNT V/O 15cd	0.000	0.018	0.000	0.018
2	39 SYSTEM SENSOR SRLED WALL MNT V/O 75cd	0.000	0.070	0.000	0.140
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>1.137</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
1	15 SYSTEM SENSOR PC2RLED CLG MNT A/V 30cd	0.000	0.038	0.000	0.038
4	17 SYSTEM SENSOR PC2RLED CLG MNT A/V 95cd	0.000	0.092	0.000	0.368
1	19 SYSTEM SENSOR PC2RLED CLG MNT A/V 115cd	0.000	0.120	0.000	0.120
2	20 SYSTEM SENSOR PC2RLED CLG MNT A/V 150cd	0.000	0.189	0.000	0.378
4	32 SYSTEM SENSOR SCRLED CLG MNT V/O 95cd	0.000	0.075	0.000	0.300
1	34 SYSTEM SENSOR SCRLED CLG MNT V/O 115cd	0.000	0.090	0.000	0.090
1	35 SYSTEM SENSOR SCRLED CLG MNT V/O 150cd	0.000	0.110	0.000	0.110
2	37 SYSTEM SENSOR SRLED WALL MNT V/O 15cd	0.000	0.018	0.000	0.036
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>1.440</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
1	48 SYSTEM SENSOR P2GRKLED WP WALL MNT A/V 110cd	0.000	0.094	0.000	0.094
4	17 SYSTEM SENSOR PC2RLED CLG MNT A/V 95cd	0.000	0.092	0.000	0.368
3	20 SYSTEM SENSOR PC2RLED CLG MNT A/V 150cd	0.000	0.189	0.000	0.567
3	32 SYSTEM SENSOR SCRLED CLG MNT V/O 95cd	0.000	0.075	0.000	0.225
2	35 SYSTEM SENSOR SCRLED CLG MNT V/O 150cd	0.000	0.110	0.000	0.220
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>1.474</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
3	21 SYSTEM SENSOR PC2RLED CLG MNT A/V 177cd	0.000	0.190	0.000	0.570
1	35 SYSTEM SENSOR SCRLED CLG MNT V/O 150cd	0.000	0.110	0.000	0.110
3	36 SYSTEM SENSOR SCRLED CLG MNT V/O 177cd	0.000	0.115	0.000	0.345
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>1.025</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
3	21 SYSTEM SENSOR PC2RLED CLG MNT A/V 177cd	0.000	0.190	0.000	0.570
3	36 SYSTEM SENSOR SCRLED CLG MNT V/O 177cd	0.000	0.115	0.000	0.345
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>0.915</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
1	45 SYSTEM SENSOR P2GRKLED WP WALL MNT A/V 30cd	0.000	0.038	0.000	0.038
4	46 SYSTEM SENSOR P2GRKLED WP WALL MNT A/V 75cd	0.000	0.087	0.000	0.348
1	54 SYSTEM SENSOR PC2RLED WP CLG MNT A/V 95cd	0.000	0.092	0.000	0.092
1	69 SYSTEM SENSOR SCRLED WP CLG MNT V/O 95cd	0.000	0.075	0.000	0.075
1	31 SYSTEM SENSOR SCRLED CLG MNT V/O 75cd	0.000	0.070	0.000	0.070
2	58 SYSTEM SENSOR SGRKLED WP WALL MNT V/O 15cd	0.000	0.018	0.000	0.036
1	59 SYSTEM SENSOR SGRKLED WP WALL MNT V/O 30cd	0.000	0.022	0.000	0.022
1	60 SYSTEM SENSOR SGRKLED WP WALL MNT V/O 75cd	0.000	0.070	0.000	0.070
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>0.751</b>

### PS #1 NAC CKTS VDC

SCALE: N.T.S. F003



POTTER PSN-1000  
UL derated

Project: COSTCO WAREHOUSE

Date: 01.14.26

Rev. 05-19-17 BBA

Prepared By: BBA

95% Contingency Factor Added for 5% change 1.2 to 1.25 in formula for Recommended A/H Battery

NPS #2 NAC CKTS (1-6)	Total Device Standby A/H	Total Device Alarm A/H	Wire AWG & Type	OHMS/1000 ft.	Length (Feet)	Actual OHMS	Volts @ EOL	Voltage Drop %
Circuit # NAC2.N1	0.000	0.950	#14AWG Solid	3.19	450	2.87	17.67	13.37%
Circuit # NAC2.N2	0.000	1.314	#14AWG Solid	3.19	500	3.19	16.21	20.55%
Circuit # NAC2.N3	0.000	0.819	#14AWG Solid	3.19	690	4.40	16.79	17.67%
Circuit # NAC2.N4	0.000	0.978	#14AWG Solid	3.19	655	4.18	16.31	20.03%
Circuit # NAC2.N5	0.000	0.703	#14AWG Solid	3.19	920	5.87	16.27	20.23%
Circuit # NAC2.N6	0.000	0.087	#14AWG Solid	3.19	760	4.85	19.98	2.07%
PSN-1000	0.060	0.200						
<b>Total Current</b>	<b>0.060</b>	<b>5.051</b>						

Summary Section	Value
Standby Hrs. Required	24
Alarm Sounding Minutes	5
Total System Standby A/H	1.44
Total System Alarm A/H	0.42
Min. A/H Battery Required	1.86
Recommended A/H Battery **	2.33

TOTAL BACKUP BATTERY PROVIDED: 7 Amp Hours

Recommended A/H Battery \*\* 2.33 TOTAL BACKUP BATTERY PROVIDED: 7 Amp Hours

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
4	19 SYSTEM SENSOR PC2RLED CLG MNT A/V 115cd	0.000	0.120	0.000	0.480
4	34 SYSTEM SENSOR SCRLED CLG MNT V/O 115cd	0.000	0.090	0.000	0.360
1	35 SYSTEM SENSOR SCRLED CLG MNT V/O 150cd	0.000	0.110	0.000	0.110
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>0.950</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
1	19 SYSTEM SENSOR PC2RLED CLG MNT A/V 115cd	0.000	0.120	0.000	0.120
4	20 SYSTEM SENSOR PC2RLED CLG MNT A/V 150cd	0.000	0.189	0.000	0.756
1	34 SYSTEM SENSOR SCRLED CLG MNT V/O 115cd	0.000	0.090	0.000	0.090
3	35 SYSTEM SENSOR SCRLED CLG MNT V/O 150cd	0.000	0.110	0.000	0.330
1	37 SYSTEM SENSOR SRLED WALL MNT V/O 15cd	0.000	0.018	0.000	0.018
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>1.314</b>

Qty	Devises	Standby Current (Each)	Alarm Current (Each)	Standby Current (Total)	Alarm Current (Total)
3	19 SYSTEM SENSOR PC2RLED CLG MNT A/V 115cd	0.000	0.120	0.000	0.360
1	20 SYSTEM SENSOR PC2RLED CLG MNT A/V 150cd	0.000	0.189	0.000	0.189
3	34 SYSTEM SENSOR SCRLED CLG MNT V/O 115cd	0.000	0.090	0.000	0.270
0	10 Unused	0.000	0.000	0.000	0.000
				<b>0.000</b>	<b>0.819</b>

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