

SCOPE OF WORK:

The intended scope of this project is to install new addressable smoke detectors and pull stations for the tenant improvement areas in the existing space. Install smoke detectors above new restrooms and inside of each restroom. The janitor room is covered by the above ceiling devices as this room is open to the roof. Install a pull station at the new door. Install strobes in the new restrooms. All new devices shall connect into existing fire alarm circuits.

EXCLUSIONS

ALL HIGH VOLTAGE WIRING AND CONNECTIONS, UNDER GROUND OR TRENCHING ANY CONDUIT, FIRE CAULKING, CORE DRILLING, EXTERIOR PATHWAY/RACEWAY. SYSTEM INTERCONNECTIONS NOT SPECIFICALLY ADDRESSED BY THIS DESIGN.

GENERAL NOTES:

01 - FIRE ALARM DESIGN TO BE PER NFPA 72 (2016) AND CITY OF PUYALLUP.

02 - SYSTEM TO BE INSTALLED AND TESTED IN ACCORDANCE WITH NFPA 72 (2016) AND AUTHORITY HAVING JURISDICTION.

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

04 - ALL NEW MATERIALS AND EQUIPMENT TO BE NEW AND UL APPROVED. ALL DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM PANEL.

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. 3'-0" OF CLEARANCE SHALL BE MAINTAINED AROUND ALL FIRE ALARM PANELS.

07 - ALL WATER FLOW ZONES SHALL BE SILENCEABLE PER UL864 AS FIRE ALARM PANEL IS MONITORED. CONDITIONS MUST BE RETURNED TO NORMAL BEFORE PANEL CAN BE RESET TO NORMAL. ALL SPRINKLER CONNECTIONS ARE EXISTING.

DEVICES

08 - ALL NEW PULL STATIONS SHALL BE MOUNTED AT 42" AFF TO THE CENTER OF THE BOX. DEVICE LOCATIONS TO BE VERIFIED UPON ARRIVAL ONSITE.

09 - ALL NEW NOTIFICATION DEVICES TO BE SET TO TEMPORAL-3 SETTINGS AND MARKED WITH "FIRE." THEY SHALL MATCH EXISTING NOTIFICATION DEVICES.

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 SPRINKLER CONNECTIONS ARE EXISTING.

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

13- ALL WEATHERPROOF DEVICES TO HAVE LIQUIDTIGHT 3/4" CONNECTIONS PROVIDED. ALL EXTERIOR DEVICES ARE EXISTING.

14 - WHEN APPLICABLE 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. RECONNECT EXISTING DUCT DETECTORS INTO EXISTING SLC CIRCUIT

NEW LEVEL 360 3500 SOUTH MERIDIAN UNIT 900-20 PUYALLUP WA 98373 FIRE ALARM SYSTEM

FIRE ALARM SYSTEMS SEQUENCE OF OPERATIONS

		SYSTEM INPUT											
		CIRCUIT FAULT	LOW BATTERY	AC POWER FAILURE	GROUND CIRCUIT FAULT	MANUAL PULL STATIONS	SMOKE DETECTORS	SPRINKLER WATERFLOW	SPRINKLER SUPERVISORY	DUCT DETECTORS			
SYSTEM OUTPUT	ALARM @ FCP					X	X	X					
	TROUBLE @ FCP	X	X	X	X								
	SUPV. @ FCP								X	X			
	ACTIVATE FIRE NOTIFICATION DEVICE					X	X	X					
	TRANSMIT ALARM TO MONITORING (POINT SPECIFIC) **					X	X						
	TRANSMIT WF ALARM TO MONITORING **							X					
	TRANSMIT TROUBLE TO MONITORING (POINT SPECIFIC) **	X	X	X	X								
	TRANSMIT SUPV. TO MONITORING (POINT SPECIFIC) **								X	X			
	SHUTDOWN HVAC UNIT (ONBOARD RELAY) EXISTING**												

SET STROBE CANDELA OUTPUT AS SHOWN ON PLANS.

**ALL MONITORING IS EXISTING. NEW SIGNALS WILL MATCH CURRENT SIGNALING PARAMETERS.

WIRING

15 - 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

16 - ALL FIRE ALARM WIRES TO BE IDENTIFIED AND APPROPRIATELY MARKED WIRING BELOW 7'-0" TO BE INSTALLED IN CONDUIT (EMT 1/2" TRADE TYP) OR ADEQUATELY PROTECTED.

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

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

19 - 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. WHERE APPLICABLE

COORDINATION ITEMS

THESE ARE TYPICALLY THE ITEMS THAT GET OVERLOOKED AND MAY LEAD TO DELAYS IN THE COMPLETION OF THE FIRE ALARM SYSTEM AND PROJECT.

1. SITE ELECTRICAL CONTRACTOR SHALL PROVIDE DEDICATED 120VAC POWER CIRCUITS WITH RED BREAKER LOCK-OUT FOR ALL FIRE ALARM EQUIPMENT (I.E PANELS, SMOKE CONTROL, FSD'S ETC).

2. ELECTRICAL FINAL SHALL BE COMPLETED PRIOR TO SCHEDULING RED HAWK FOR CHECK-OUT, UNLESS REQUIRED OTHERWISE BY AHJ. WIRES SHALL BE TESTED AND RECORDED FOR GROUNDS, OPENS AND/OR SHORTS.

3. NOTIFY RED HAWK A MIN. OF 2 WEEK, PRIOR TO INSTALLATION OF ALL WIRING, DEVICES AND POWER, FOR SCHEDULING OF SYSTEM CHECK-OUT AND PROGRAMMING. RED HAWK REQUIRES A MIN. OF 2 DAYS FOR CHECK-OUT AND PROGRAMMING PRIOR TO SCHEDULING A FIRE ALARM FINAL. LARGER SYSTEMS WILL REQUIRE MORE TIME. FAILURE TO HAVE WORK COMPLETED WILL REQUIRE RESCHEDULING AND ADDITIONAL COSTS.

4. AS-BUILTS/RED LINES SHOWING PATHWAYS AND ANY INSTALLATION NOTES TO BE COMPLETED AT THE END OF ROUGH-IN AND PROVIDED TO RED HAWK FIRE PROTECTION AT ARRIVAL FOR TRIM OUT AND TROUBLESHOOTING.

CABLE/CONDUCTOR LIST

CIRCUIT TYPE	CABLE TYPE	NO.	GAUGE	COLOR	NOTES
ADDRESSABLE INITIATING CIRCUIT	FPL-TP	A	16/2	RED JACKET	
NOTIFICATION CIRCUIT	FPL-TP	N 1	14/2	RED JACKET	

SYMBOL	MODEL NUMBER	DESCRIPTION	MANUFACTURE	BACK BOX	QTY
[FACP] ^E	E3	FIRE ALARM CONTROL PANEL - EXISTING	GAMEWELL	EXISTING	1
[BPS] ^E	HONEYWELL	BOOSTER POWER SUPPLY PANEL - EXISTING	GAMEWELL	EXISTING	1
[?] ^E	ASD-PL3	PHOTOELECTRIC SMOKE SENSOR EXISTING	GAMEWELL	EXISTING	1
[?] ^N	ASD-PL3	PHOTOELECTRIC SMOKE SENSOR NEW	GAMEWELL	SINGLE GANG MUD RING OR 3-0 RING	5
[?] ^A	ASD-PL3	PHOTOELECTRIC SMOKE SENSOR NEW - ABOVE CEILING	GAMEWELL	SINGLE GANG MUD RING OR 3-0 RING	2
[F] ^N	MS7-AF	PULL STATION NEW	GAMEWELL	4 SQ. DEEP BOX W/ SINGLE GANG MUD RING	1
[F] ^E	MS7-AF	PULL STATION EXISTING	GAMEWELL	EXISTING	2
[?] ^E	DNR	ADDRESSABLE DUCT DETECTOR W/ RELAY EXISTING	GAMEWELL	EXISTING	3
[?] ^C	SCWL	STROBE - CEILING MOUNT	SYSTEM SENSOR	4 SQ. DEEP BOX	4

RED HAWK
FIRE PROTECTION, LLC



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WA CL# REDHAHF901QP

NICET Stamp

Heather Mattoli
HEATHER MATTOLI NICET III #147931
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Approvals Required

OWNER / ARCHITECT

Revisions

Contract With

DSI SPORTS LLC

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Contract Name

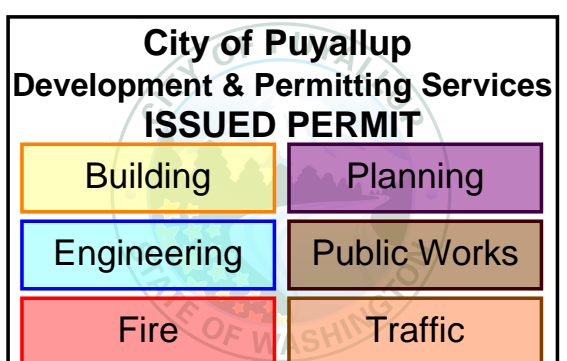
NEW LEVEL 360

3500 SOUTH MERIDIAN UNIT 900-20
PUYALLUP WA 98371

Drawing Title

**FIRE ALARM
DRAWING - COVER
SHEET**

Key Plan



Date: NOVEMBER 4, 2022

Job Number: 90037

Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

**FA-01
SHEET 1 OF 6**



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PUYALLUP WA 98371

Drawing Title

**FIRE ALARM
DRAWING - FLOOR
PLAN**

Key Plan

Date: NOVEMBER 4, 2022

Job Number: 90037

Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

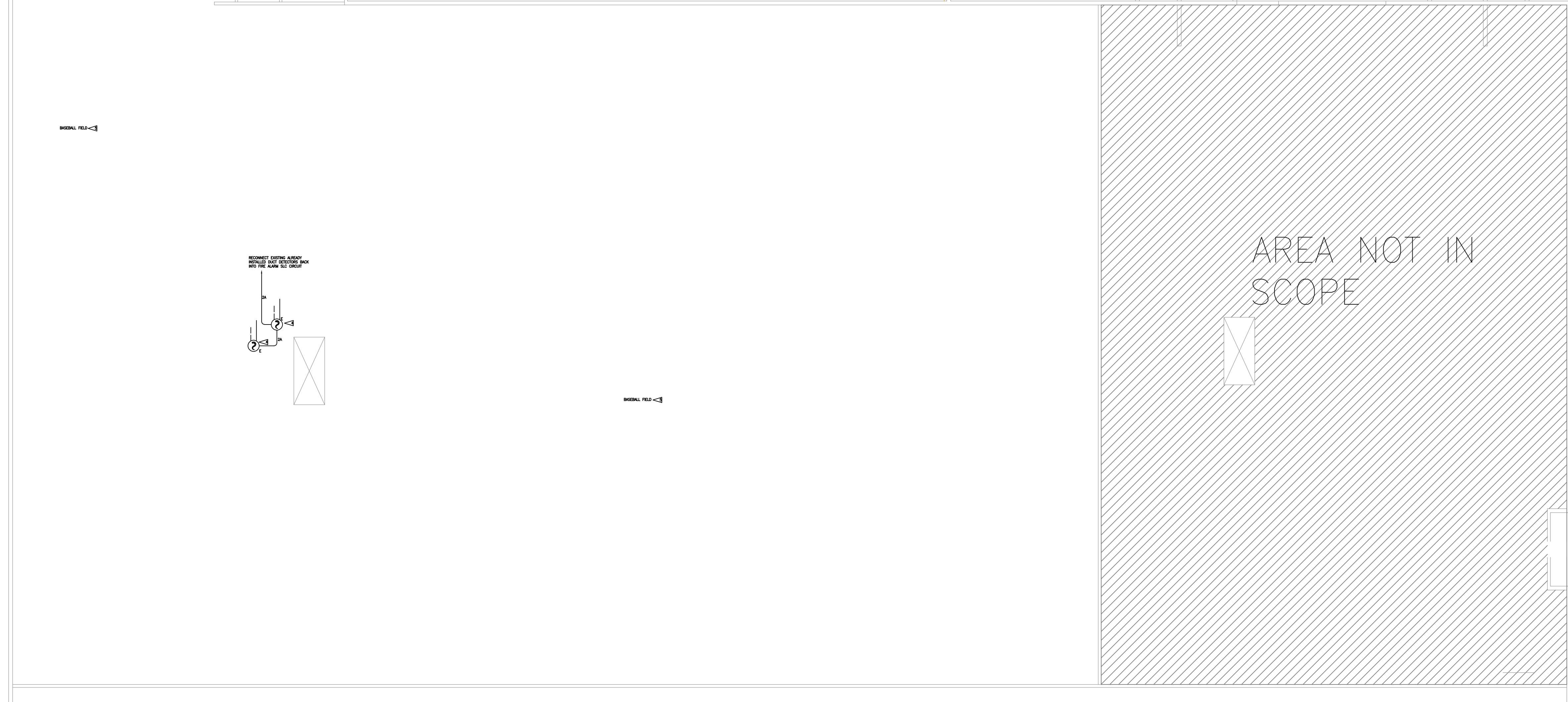
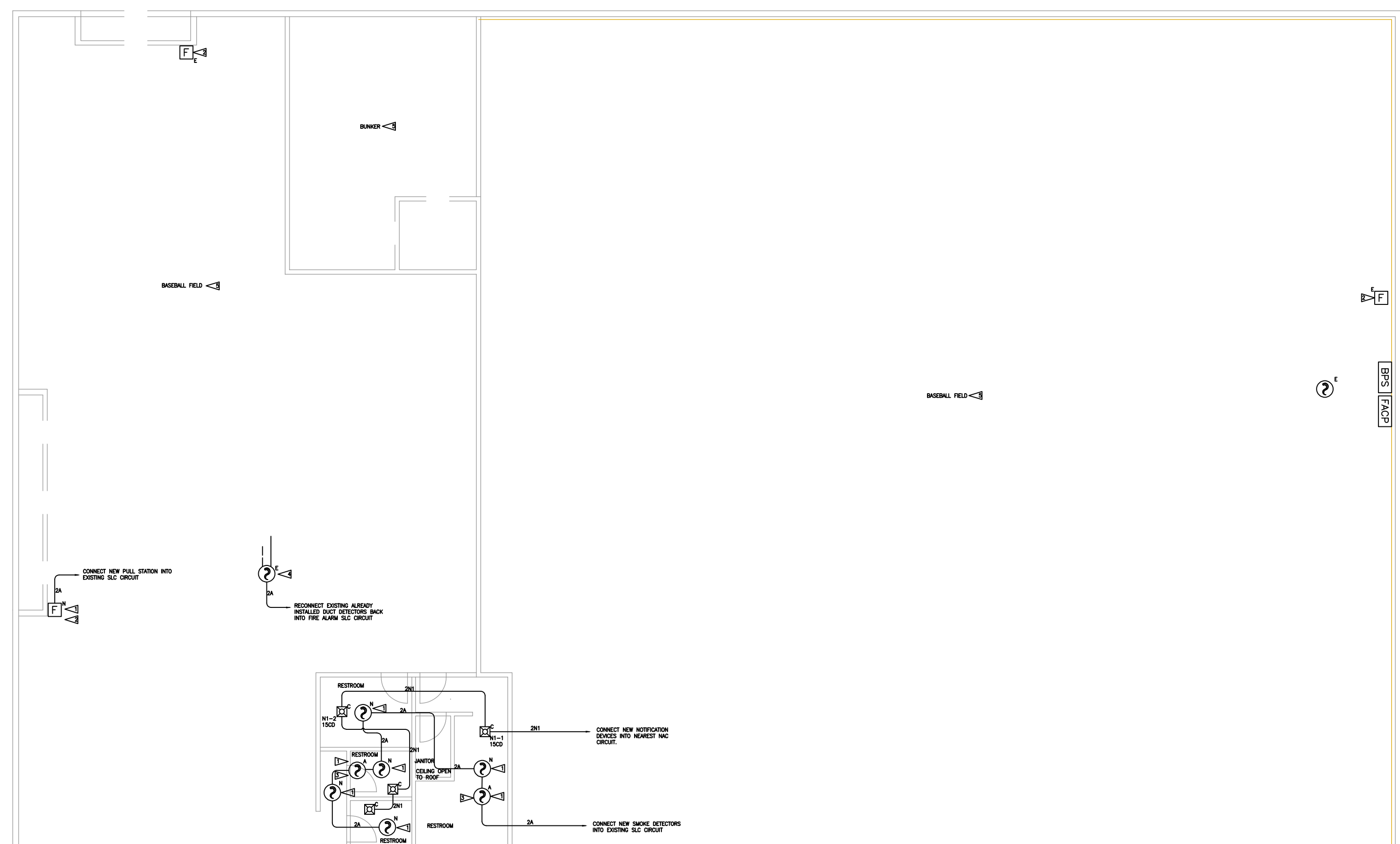
**FA-02
SHEET 2 OF 6**

CABLE/CONDUCTOR LIST

CIRCUIT TYPE	CABLE TYPE	NO.	GAUGE	COLOR	NOTES
ADDRESSABLE INITIATING CIRCUIT	FPL-TP	A	16/2	RED JACKET	
NOTIFICATION CIRCUIT	FPL-TP	N 1	14/2	RED JACKET	

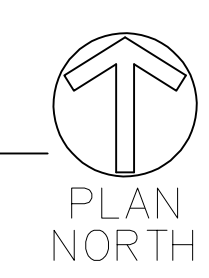
- FLAG NOTES:
- 1 INSTALLATION OF NEW ADDRESSABLE FIRE ALARM DEVICE. DEVICE ADDRESS TO BE ASSIGNED DURING PROGRAMMING.
 - 2 INSTALL PROTECTIVE COVERS OVER ALL NEW AND EXISTING PULL STATIONS (QTY 3).
 - 3 ABOVE CEILING SMOKE DETECTOR. ACCESS ISSUES TO ABOVE CEILING ARE CAUSING TWO SMOKE DETECTORS TO BE INSTALLED ALTHOUGH DIMENSIONS OF ABOVE THESE ROOMS. ONLY REQUIRES 1. CANNOT MAINTAIN PROPER SPACING WITH CURRENT WALL INSTALLATION/DUCTING INSTALLATION.
 - 4 RECONNECT EXISTING DUCT DETECTORS INTO SLC CIRCUIT. DUCT DETECTORS ARE ALREADY INSTALLED.
 - 5 THIS AREA IS EQUIPPED WITH FULL COVERAGE SMOKE DETECTORS AND NOTIFICATION DEVICES. EXISTING -NO CHANGES/BEING DONE.

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[FACP] ^E	E3	FIRE ALARM CONTROL PANEL - EXISTING	GAMEWELL	EXISTING	1
[BPS] ^E	HONEYWELL	BOOSTER POWER SUPPLY PANEL - EXISTING	GAMEWELL	EXISTING	1
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[?] ^C	SCWL	STROBE - CEILING MOUNT	SYSTEM SENSOR	4 SQ. DEEP BOX	4



F1 FIRE ALARM PLAN - PARTIAL

SCALE: 3/32" = 1'-0"





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NEW LEVEL 360

3500 SOUTH MERIDIAN UNIT 900-20
PUYALLUP WA 98371

Drawing Title

**FIRE ALARM
DRAWING - RISER
DIAGRAM**

Key Plan

Date: NOVEMBER 4, 2022
Job Number: 90037
Designer: LINDSEY LESLIE
Building Permit: -

Drawing Number

**FA-03
SHEET 3 OF 6**

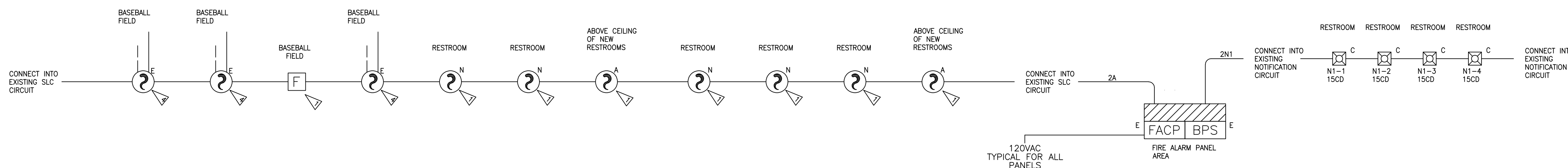
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F2 FIRE ALARM RISER
SCALE: NONE



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Contract Name

NEW LEVEL 360

3500 SOUTH MERIDIAN UNIT 900-20
PUYALLUP WA 98371

Drawing Title

**FIRE ALARM
DRAWING -
VICINITY MAP**

Key Plan

Date: NOVEMBER 4, 2022

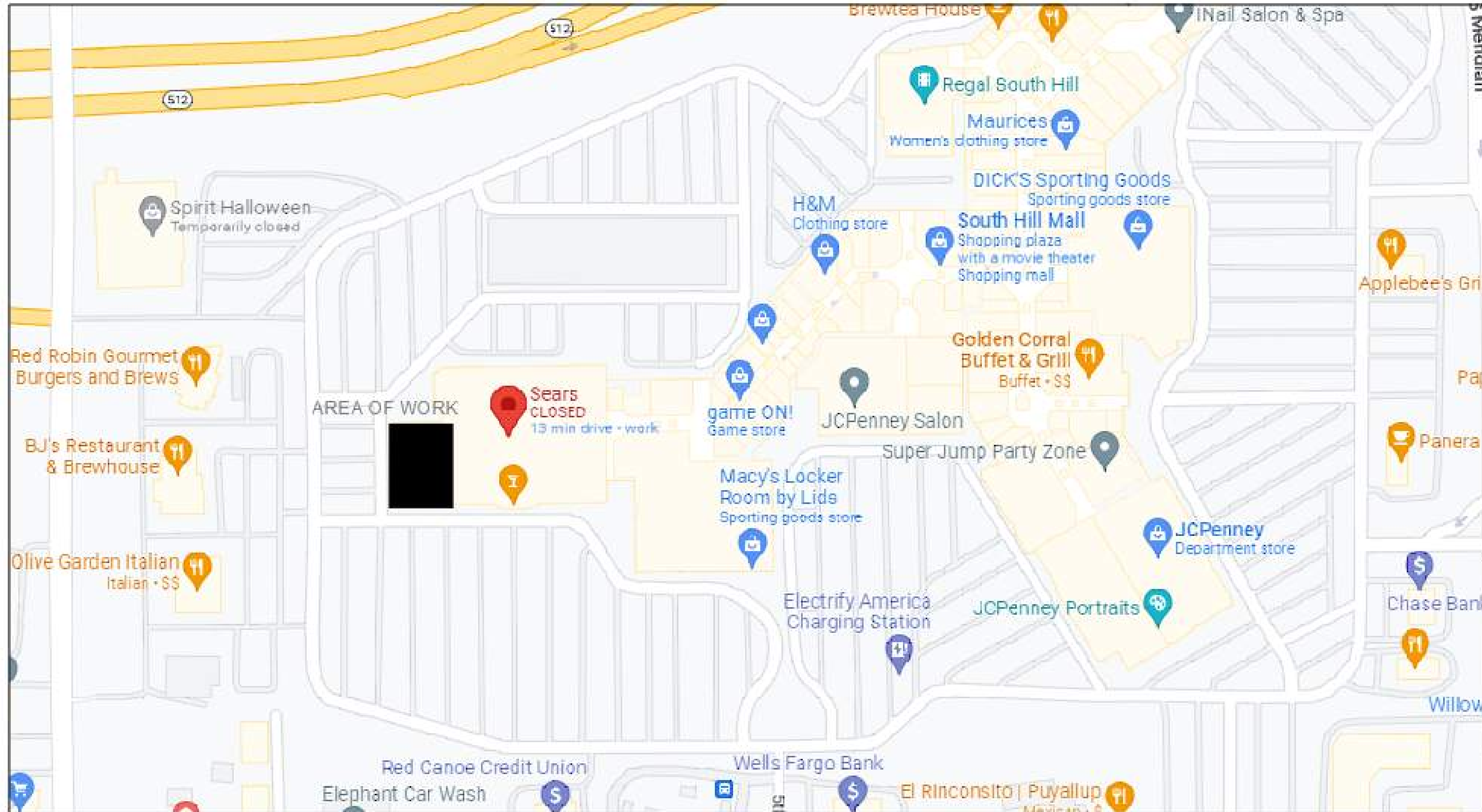
Job Number: 90037

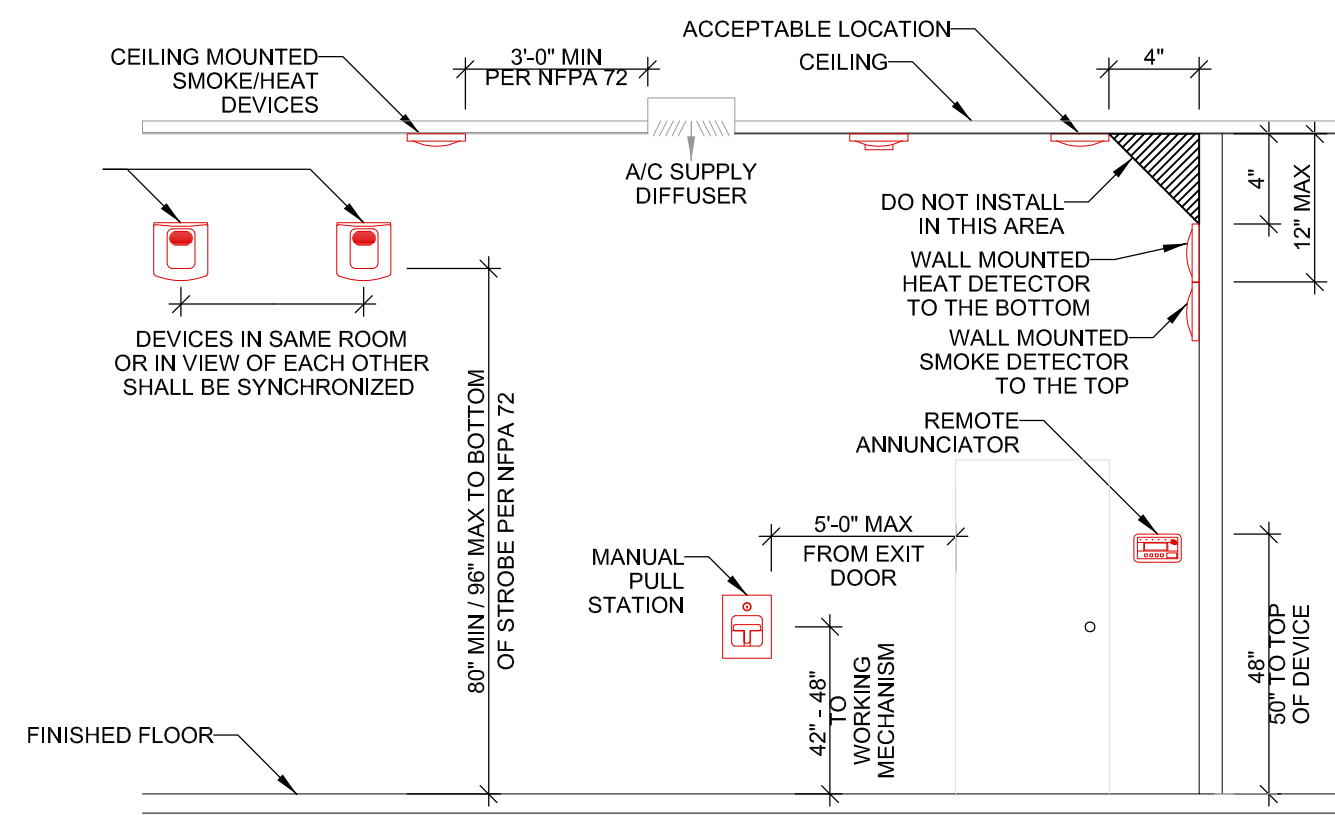
Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

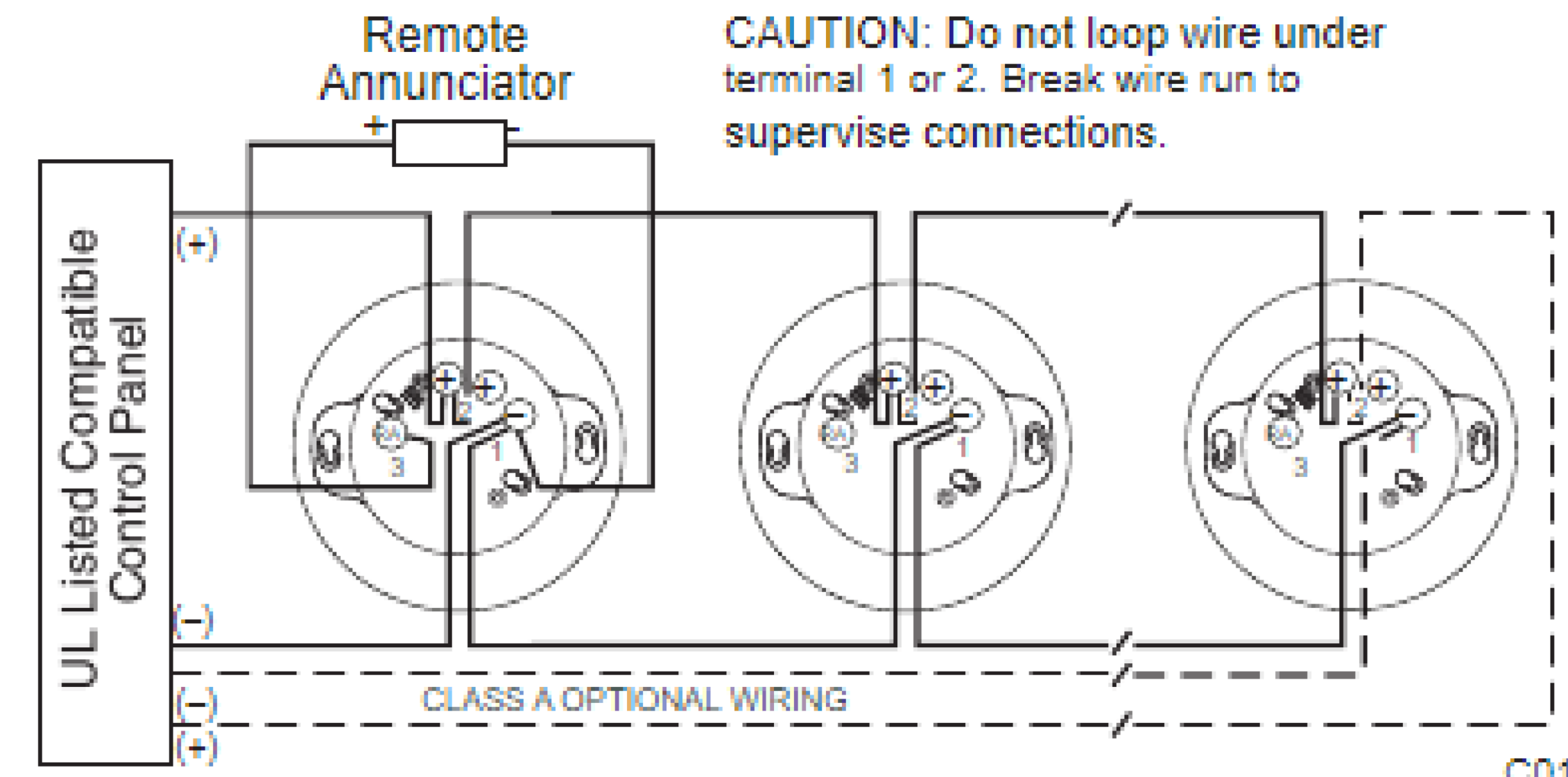
**FA-04
SHEET 4 OF 6**





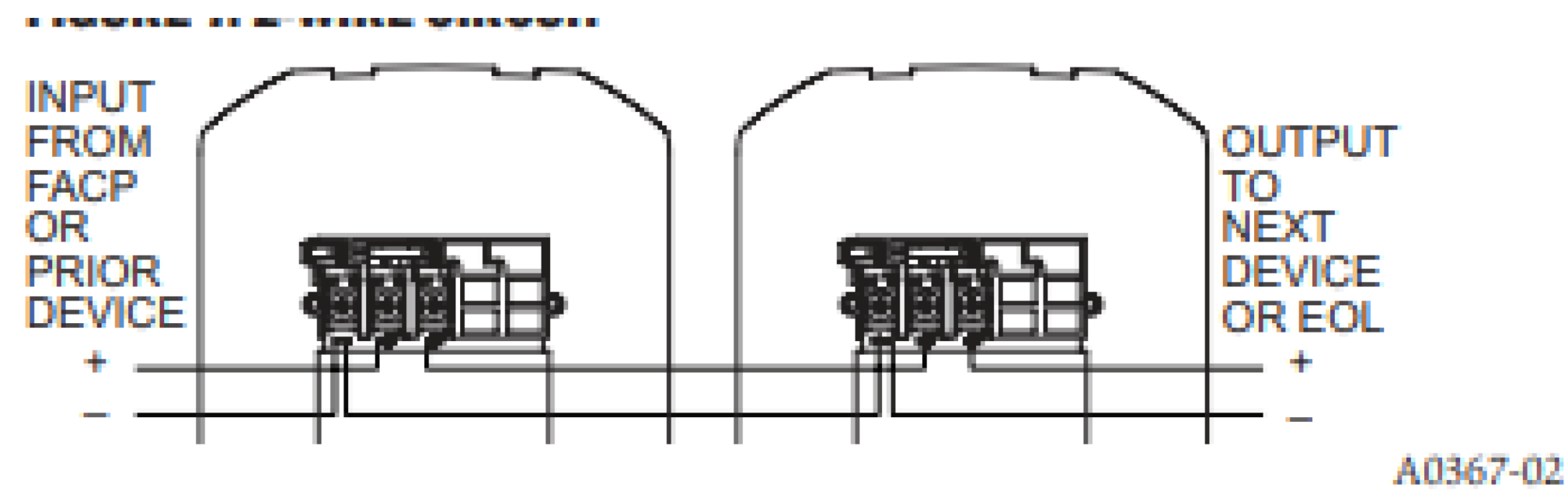
F1 DEVICE MOUNTING GUIDE
SCALE: NONE

FIGURE 2. WIRING DIAGRAM:

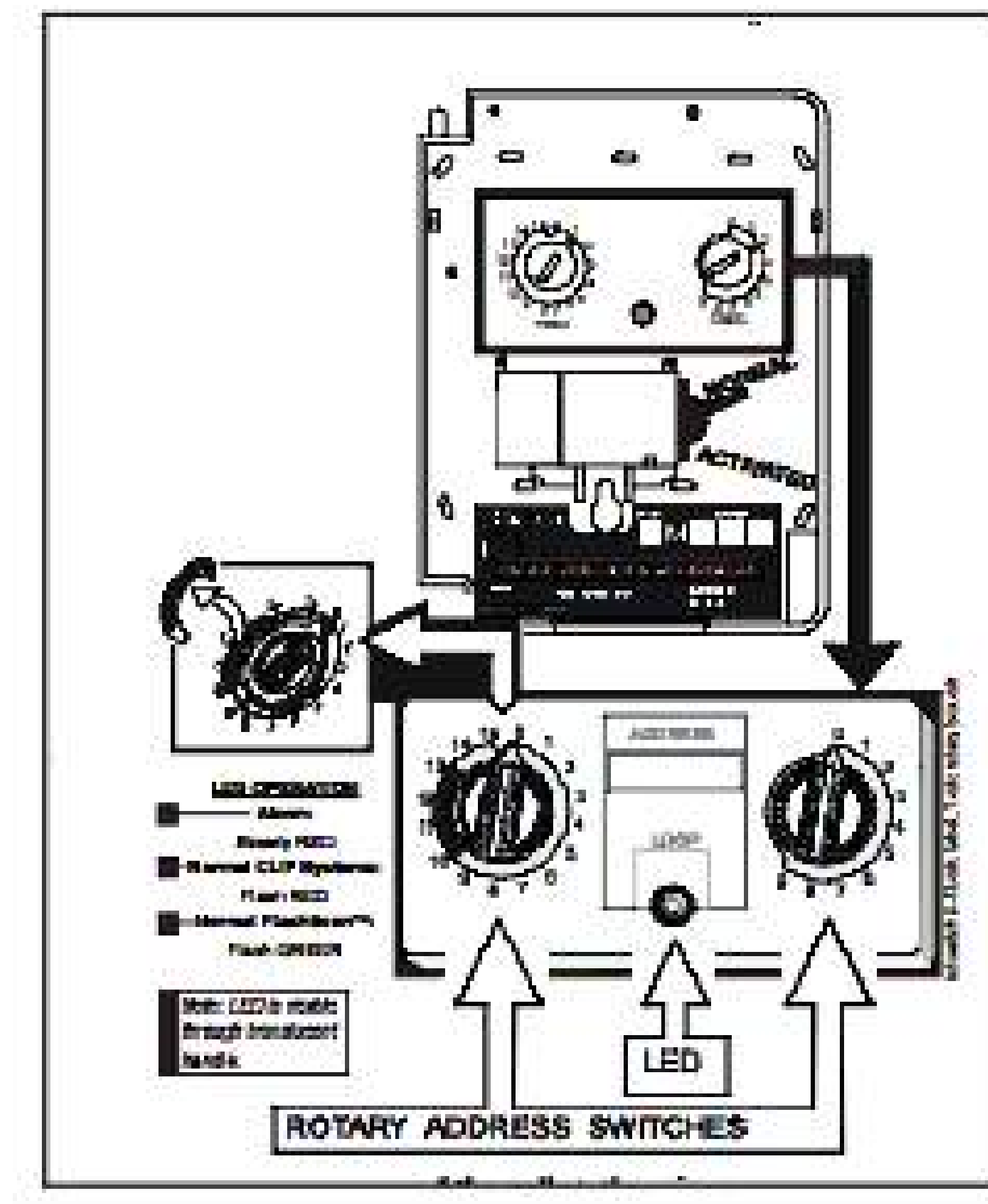


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F2 SMOKE DETECTOR WIRING DETAIL
SCALE: NONE



F3 NOTIFICATION DEVICES WIRING DIAGRAM
SCALE: NONE



F4 PULL STATION WIRING DETAIL
SCALE: NONE



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Contract Name

NEW LEVEL 360

3500 SOUTH MERIDIAN UNIT 900-20
PUYALLUP, WA 98371

Drawing Title

FIRE ALARM
DRAWING -
DETAILS

Key Plan

Date: NOVEMBER 4, 2022

Job Number: 90037

Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

System Current Draw													
E3 Series Control Panel with Broadband													
		Total Standby			0.191 A			Total Alarm			0.526 A		
Device	Qty	Standby Current			Alarm Current								
		Draw	Standby	Alarm	Draw	Alarm	Alarm						
1. System Device													
Intel. Loop Interface, Main Board (LI-MB-E3)	1	x	0.08100	0.08100	1	x	0.15000	0.15000					
Intel. Loop Interface Supplement Board (LI-S-E3)	0	x	0.08100		0	x	0.15000						
Intel. Loop Interface Main Board - Apollo (LI95-MB-E3)	0	x	0.05000		0	x	0.09100						
Intel. Loop Interface Supplement Board - Apollo (LI95-S)	0	x	0.05000		0	x	0.09100						
7100 Panel, 1 SLC	0	x	0.07500		0	x	0.09500						
7100 Panel, 1 SLC with DACT	0	x	0.07500		0	x	0.09500						
7100 Panel, 2 SLC	0	x	0.08500		0	x	0.08500						
7100 Panel, 2 SLC with DACT	0	x	0.08500		0	x	0.10500						
2. E3 Optional Modules													
120V Power Supply Sub-Assembly (PM-9)	1	x	0.05000	0.05000	1	x	0.05000	0.05000					
240V Power Supply Sub-Assembly (PM-9G)	0	x	0.02700		0	x	0.05000						
LCD Display & Switch Control (LCD-E3)	1	x	0.02400	0.02400	1	x	0.02800	0.02800					
ARCNET Repeater (RPT-E3)	0	x	0.01300		0	x	0.01300						
Digital Communicator (DACT-E3)	1	x	0.01800	0.01800	1	x	0.01800	0.01800					
Optional Remote Serial Annunciator (LCD-7100)	0	x	0.05000		0	x	0.07500						
Network LCD Annunciator (NGA)	0	x	0.20000		0	x	0.20000						
Auxiliary Switch Sub-Assembly (ASM-16)	0	x	0.01100		0	x	0.01100						
Remote LED Driver Module (ANU-48)	0	x	0.01100		0	x	0.01100						
Addressable Node Expander (ANX)	0	x	0.06500		0	x	0.06500						
3. 7100 Optional Modules													
Intelligent Network Interface Module (INI-7100)	0	x	0.04000		0	x	0.04000						
Printer Transient Module (PTRM)	0	x	0.02000		0	x	0.02000						
Remote LED Driver Module (LDM-7100)	0	x	0.03000		0	x	0.03000						
Class A Option Module (CAOM)	0	x	0.00100		0	x	0.00100						
Municipal Circuit Option Module (MCCM)	0	x	0.00100		0	x	0.00100						
4. INI-VGC Command Center													
Intel. Network Command Center (INI-VGC)	0	x	0.15000		0	x	0.15000						
Addressable Switch Sub-assembly (ASM-16)	0	x	0.01100		0	x	0.01100						
Voice Paging Microphone (Microphone)	0	x	0.00100		0	x	0.00100						
Firefighter's Telephone (Handset)	0	x	0.02000		0	x	0.02000						
Addressable Output Module-Telephone (AOM-TEL)	0	x	0.00200		0	x	0.00650						
5. INI-VGX Voice Gateway													
Intel. Network Voice Gateway (INI-VGX)	0	x	0.15000		0	x	0.15000						
120V Power Supply Sub-Assembly (PM-9)	0	x	0.05000		0	x	0.05000						
240V Power Supply Sub-Assembly (PM-9G)	0	x	0.02700		0	x	0.05000						
Amplifier Sub-assembly, 50 watt 25V (AM-50)	0	x	0.08600		0	x	2.20600						
Amplifier Sub-assembly, 50 watt 70V (AM-50-70)	0	x	0.04900		0	x	2.30000						
Addressable Output Module-Signal (AOM-2SF)	0	x	0.00200		0	x	0.00650						
Addressable Output Module-Telephone (AOM-TEL)	0	x	0.00200		0	x	0.00650						
Addressable Output Module-Audio (AOM-MUX)	0	x	0.00200		0	x	0.00650						
6. INI-VGE Command Center Voice Gateway													
Intel. Network Command Voice Gateway (INI-VGE)	0	x	0.15000		0	x	0.15000						
Addressable Switch Sub-assembly (ASM-16)	0	x	0.01100		0	x	0.01100						
Voice Paging Microphone (Microphone)	0	x	0.00100		0	x	0.00100						
Firefighter's Telephone (Handset)	0	x	0.02000		0	x	0.02000						
Addressable Output Module-Signal (AOM-2SF)	0	x	0.00200		0	x	0.00650						
Addressable Output Module-Telephone (AOM-TEL)	0	x	0.00200		0	x	0.00650						
Addressable Output Module-Audio (AOM-MUX)	0	x	0.00200		0	x	0.00650						
7. Smoke Detectors/Modules													
MS7-AF FULL STATION	3	x	0.00250	0.00750	3	x	0.00030	0.00090					
ASD-PL3 SMOKE DETECTOR	5	x	0.00200	0.01000	5	x	0.00030	0.01500					
Smoke Detector/Module 3	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 4	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 5	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 6	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 7	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 8	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 9	0	x	0.00000		0	x	0.00000						
Smoke Detector/Module 10	0	x	0.00000		0	x	0.00000						
8. Notification Appliances													
SW15	4	x	0.00000	0.00000	4	x	0.06600	0.26400					
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						
	0	x	0.00000		0	x	0.00000						

0	x	0.00000		0	x	0.00000	
0	x	0.00000		0	x	0.00000	
0	x	0.00000		0	x	0.00000	
0	x	0.00000		0	x	0.00000	
Total Standby Load:				0.191 A			
Total Alarm Load:				0.526 A			

System Power Requirements			
E3 Fire Alarm Control Panel with Broadband			
Protected Premises:	NEW LEVEL 360	Date:	I22
Address:	3500 SOUTH MERIDIAN UNIT 900-20	City:	PUYALLUP
State:	WA	Zip:	98371
Prepared By:	RED HAWK FIRE PROTECTION	Phone:	0-9900
Address:	801 VALLEY AVENUE SUITE D	Email:	LINDSEY@REDHAWKFP.COM
City:	PUYALLUP	State:	WA
Zip:	98371		

Secondary Load Requirements **55.56** Amp Hours

Total Secondary Load from the calculation table below.

Current Draw	Time (hours)	Total (AH)
Secondary Standby Load	24 hours	46.15
Secondary Alarm Load	0.084 hours	0.15
Total Secondary Load		46.30
Derating factor x 1.20		55.56
Secondary Load Requirements		55.56 AH

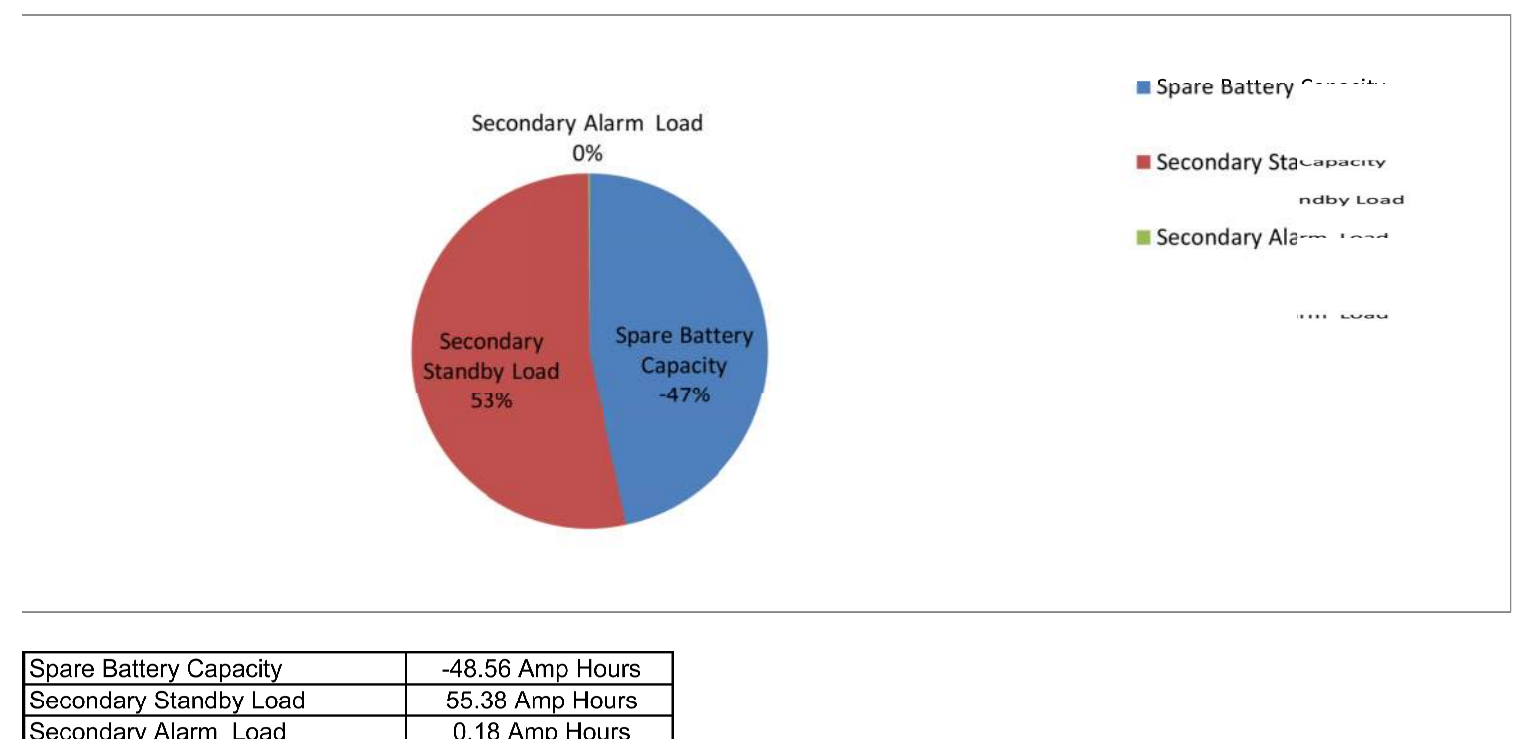
Battery Selection **7.00** Amp Hours

Select batteries from the list

7.0 AH Battery (12 volt)

Battery Distribution Chart

Shows amp-hour distribution of your selections.



F1 FIRE ALARM PANEL BATTERY CALCULATIONS

SCALE: NONE



NICET Stamp

Heather Mattoli
HEATHER MATTOLI NICET #147931
11/04/2022 1:36:04 PM

Approvals Required

OWNER / ARCHITECT

Revisions

Contract With
DSI SPORTS LLC

DSI SPORTS LLC
PO BOX 706
PUYALLUP WA 98371
PM: DEAN PIERCE
Phone: -
Email: DEANPIERCE@JOHNSCOTT.COM

Contract Name

NEW LEVEL 360

3500 SOUTH MERIDIAN UNIT 900-20
PUYALLUP WA 98371

Drawing Title
**FIRE ALARM
DRAWING -
BATTERY
CALCULATIONS**

Key Plan

Date: NOVEMBER 4, 2022

Job Number: 90037

Designer: LINDSEY LESLIE

Building Permit: -

Drawing Number

**FA-06
SHEET 6 OF 6**