

DRAWING DIRECTORY

SHEET #:	SHEET TITLE:
FA-01	COVER SHEET, BILL OF MATERIALS AND GENERAL INFORMATION
FA-02	PANEL & DEVICE DETAILS
FA-03	ADDRESS LISTS
FA-04	1ST FLOOR DEVICE LAYOUT
FA-05	2ND FLOOR DEVICE LAYOUT

MACY'S PUYALLUP FIRE ALARM SYSTEM INSTALL 3500 S. MERIDIAN SUITE 985 PUYALLUP, WA 98373

SCOPE OF WORK:

NORTHWEST FIRE SYSTEMS WILL BE REPLACING THE FIRE ALARM CONTROL PANEL AND ALL ASSOCIATED ADDRESSABLE DEVICES LIKE FOR LIKE. THE EXISTING 2 DEDICATED PHONE LINES WILL BE USED FOR OFF-SITE MONITORING OF THE NEW FACP. ALL EXISTING NOTIFICATION AND POWER SUPPLIES WILL REMAIN AS IS. ALL DETECTION WILL BE INSTALLED TO MEET NFPA 72 AND LOCAL JURISDICTION REQUIREMENTS.

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-ER20XL	1	FIRE ALARM CONTROL PANEL
	12V12AH	2	12VDC 12AHR BATTERIES
	SK-EB1S	1	SLC EXPANSION CARD
[P]	SK-PULL-SA	1	ADDRESSABLE MANUAL PULL STATION
[S]	SK-PHOTO	248	SMOKE DETECTORS
[H]	SK-HEAT-ROR	10	HEAT DETECTORS (135° RATE OF RISE)
[R]	SK-RELAY	28	ADDRESSABLE RELAY MODULE
[M]	SK-MONITOR	27	ADDRESSABLE MONITOR MODULE

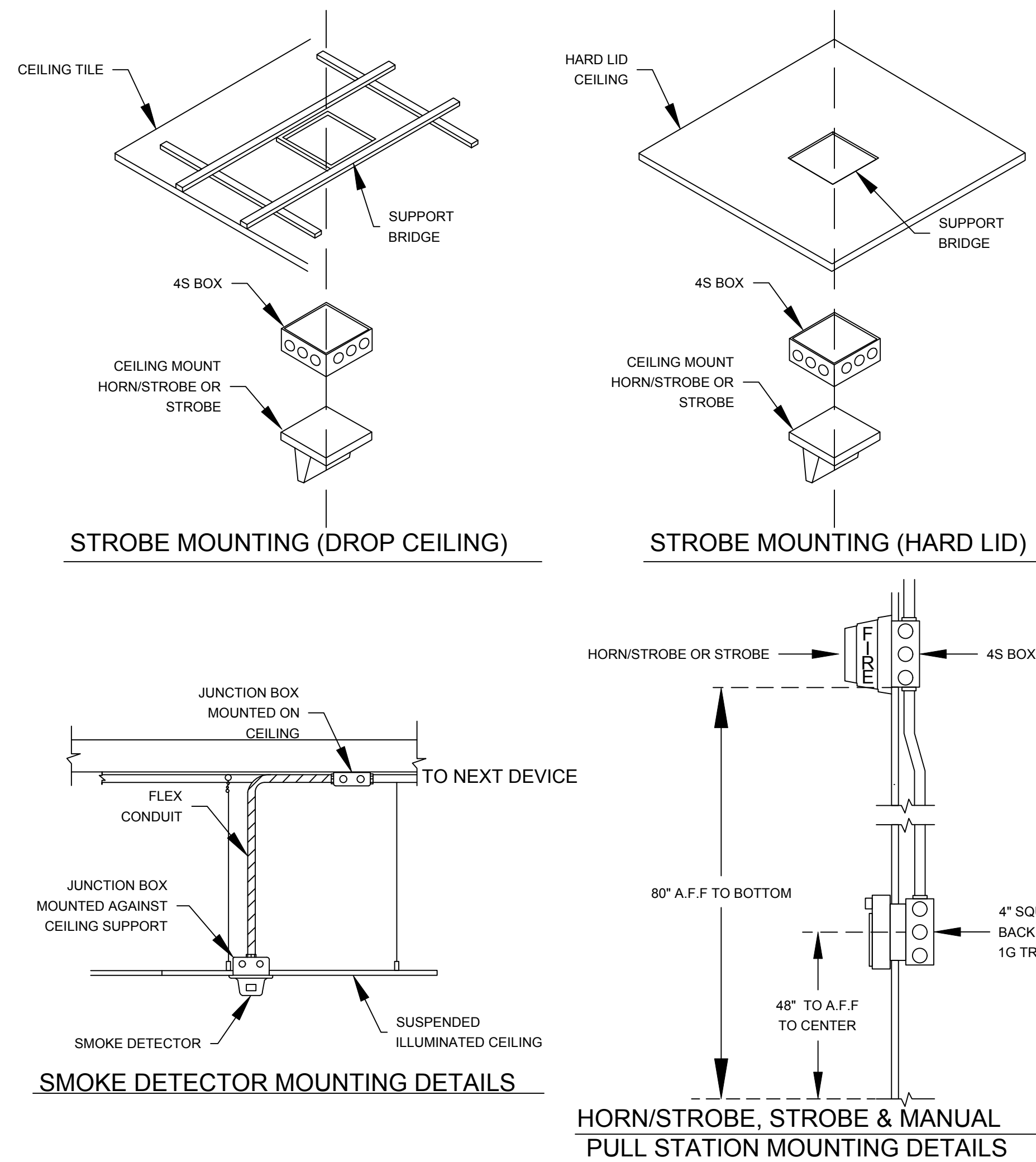
CONSULTANTS

PROJECT NAME:
MACY'S PUYALLUP
3500 S. MERIDIAN SUITE 985
PUYALLUP, WA 98373
FIRE ALARM SUPPLIER:
NORTHWEST FIRE SYSTEMS
22645 63RD AVE. S.
KENT, WA 98032
PHONE: (206)772-7502
WWW.NWFFRESYSTEMS.COM
REFERENCES:
NFPA 70 NATIONAL ELECTRICAL CODE (2019)
NFPA 72 NATIONAL FIRE CODE (2019)
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 (2020)
ALL MANUFACTURER GUIDELINES AND REQUIREMENTS

ABBREVIATIONS

FACP	FIRE ALARM CONTROL PANEL
AFP	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

STANDARD MOUNTING HEIGHT DETAIL



SEQUENCE OF OPERATIONS

INPUT CONDITION	OUTPUT FUNCTIONS									
	SYSTEM ANNUNCIATION & TRANSMISSION					ADDITIONAL SYSTEM ACTIONS				
STANDBY CONDITION (NORMAL)										
AC POWER FAILURE										
ANY CIRCUIT - OPEN, SHORT, GROUND										
SLC DEVICE MISSING										
COMM. FAULT/AES TROUBLE										
BATTERY FAULT - LOW/HIGH VOLTAGE										
SPRINKLER TAMPER SWITCH										
DUCT DETECTOR										
ELEVATOR SPRINKLER TAMPER SWITCH										
FIRE ALARM PULL STATION										
SMOKE DETECTOR										
HEAT DETECTOR										
SPRINKLER WATERFLOW SWITCH										
1ST FLOOR ELEVATOR LOBBY SMOKE										
ELEVATOR MECH. ROOM SMOKE DET.										
ELEVATOR PIT HEAT DETECTOR										
ELEVATOR SHAFT SMOKE DETECTOR										

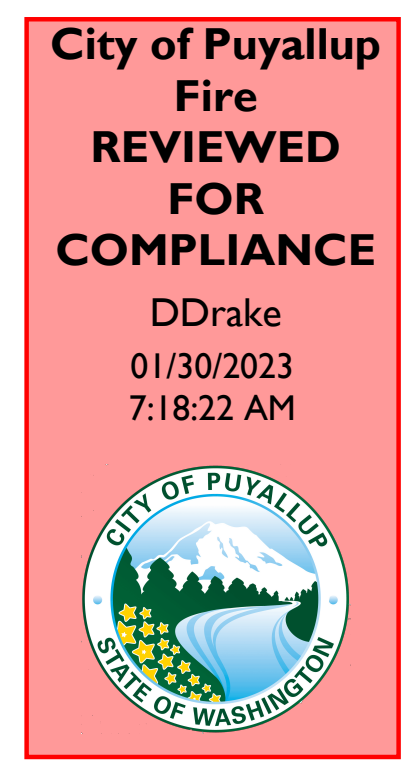
NOTE: NOT ALL OF THE MATRIX IS NECESSARILY USED FOR THIS PROJECT.

GENERAL NOTES

- | | |
|---|--|
| <p>ELECTRICAL NOTES:</p> <ol style="list-style-type: none"> INSTALLATION SHALL COMPLY WITH NFPA 70, PARTICULARLY ARTICLE 760, AND SHALL ALSO COMPLY WITH NFPA 72, AND ALL LOCAL ELECTRICAL CODES AND LOCAL JURISDICTION REQUIREMENTS. CONDUIT INDICATED ON PRINTS IS DIAGRAMMATIC AND MAY BE REROUTED PER FIELD REQUIREMENTS. AC POWER SHALL NOT OCCUPY THE SAME CONDUIT AS FIRE PROTECTION CIRCUITS (MOST FIRE DETECTION CKT'S ARE NEC CLASS 3) ALL SLC LOOP WIRING SHALL BE 2 CONDUCTOR #16, UNSHIELDED, FIRE ALARM CABLE OF THE PROPER RISER AND / OR PLENUM TYPE. CONVENTIONAL FIRE DETECTION INITIATING DEVICE CIRCUITS OR NOTIFICATION APPLIANCE CIRCUITS SHALL NOT BE PARALLEL BRANCHED (TEE TAPPED) TO ENSURE SUPERVISION OF WIRING. ADDRESSABLE CLASS "B" FIRE DETECTION SIGNALING LINE CIRCUITS (SLC) MAY BE PARALLEL BRANCHED (TEE TAPPED) IF SO INDICATED ON THE SYSTEM PLANS. OBSERVE POLARITY OF ALL FIRE DETECTION WIRING. POLARITY SHALL BE MAINTAINED THROUGHOUT ENTIRE SYSTEM; WIRE SHALL BE MARKED AND IDENTIFIED WHERE SPLICED, AND AT ANY JUNCTION BOXES. THE FIRE ALARM PANEL GROUND SHALL BE A SEPARATE CONTINUOUS GROUND WIRE BACK TO THE SOURCE GROUND; CONDUIT GROUND IS NOT ACCEPTABLE PER MANUFACTURER'S SPECIFICATIONS. FIRE ALARM PANEL, AND ANY OTHER FIRE DETECTION EQUIPMENT REQUIRING 120VAC, SHALL BE SUPPLIED BY A DEDICATED CIRCUIT BREAKER OTHER (NON-FIRE DETECTION) EQUIPMENT SHALL NOT SHARE THE FIRE ALARM CIRCUIT(S). THIS BREAKER SHALL BE LOCKED AND CLEARLY MARKED "FIRE ALARM CIRCUIT CONTROL". 120VAC POWER BY OTHERS. POWER SHALL NOT BE APPLIED TO THE FIRE ALARM PANEL UNLESS A REPRESENTATIVE FROM NORTHWEST FIRE SYSTEMS IS PRESENT. | <p>FIRE ALARM INSTALLATION NOTES:</p> <ol style="list-style-type: none"> NOTIFY NORTHWEST FIRE SYSTEMS, OF ANY DESIGN QUESTIONS OR CHANGES PRIOR TO INSTALLATION OR FABRICATION. COMPARE DRAWINGS WITH CURRENT CONTRACT DRAWINGS PRIOR TO INSTALLATION. ANY ALTERATIONS OR VARIATIONS FROM DRAWINGS SHOULD BE APPROVED PRIOR TO WORK PROCEEDING AND DOCUMENTED ON THE AS BUILT DRAWINGS. VERIFY DEVICE LOCATIONS PRIOR TO INSTALLATION. REFERENCE FACTORY INSTRUCTION MANUALS DURING INSTALLATION OF FIRE CONTROL EQUIPMENT. DETECTORS SHALL NOT BE MOUNTED IN A DIRECT AIR STREAM. DO NOT INSTALL DETECTORS WITHIN 3'-0" OF AIR SUPPLY DIFFUSERS. USE ONLY U.L. LISTED DEVICES. DO NOT INSTALL DETECTOR HEADS UNTIL FINAL CLEANING HAS BEEN PERFORMED. FIELD DETERMINE INTERFACE REQUIREMENTS AND LOCATIONS OF EQUIPMENT SUPPLIED BY OTHER TRADES, (i.e., SPRINKLER DEVICES, HVAC UNITS, FIRE DAMPERS, ELEVATOR CONTROLS, & FAN CONTROLS.) |
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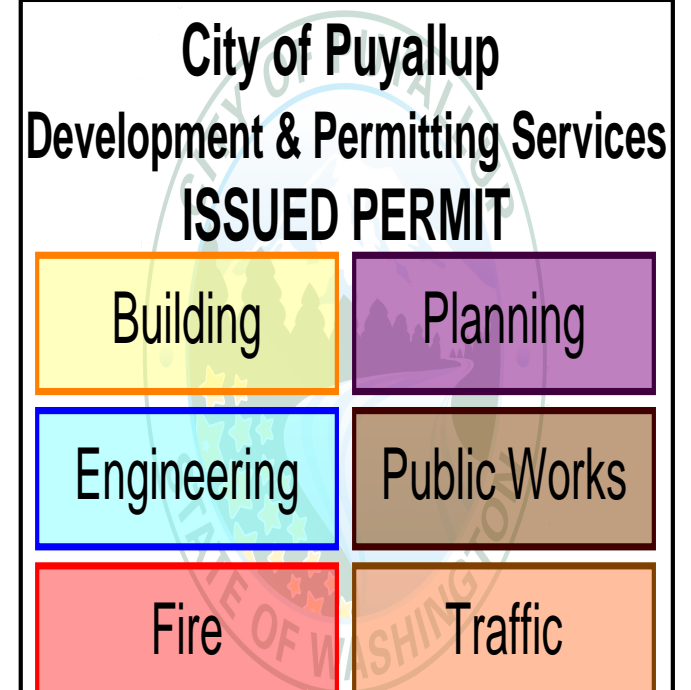


VICINITY MAP
N.T.S.



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 non-compliance 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.



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Saving lives and Protecting Property

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WWW.NWFFRESYSTEMS.COM
LIC # NORTHFS875M

NO.	BY	DATE	REVISION DESCRIPTION
0	J.S.	1/21/23	SUBMITTAL DRAWINGS

CONTRACT NAME:
MACY'S PUYALLUP
3500 S. MERIDIAN SUITE 985
PUYALLUP, WA 98373

CONTRACT WITH:
MACY'S INC.
465 PROGRESS OKACE
SPRINGDALE, OH 45246
ON-SITE CONTACT: JIM POULIN (703)929-8231

DRAWN BY: DATE:
JOE SHELDON 1/21/23

DESIGNED BY: DATE:
JOE SHELDON 1/21/23

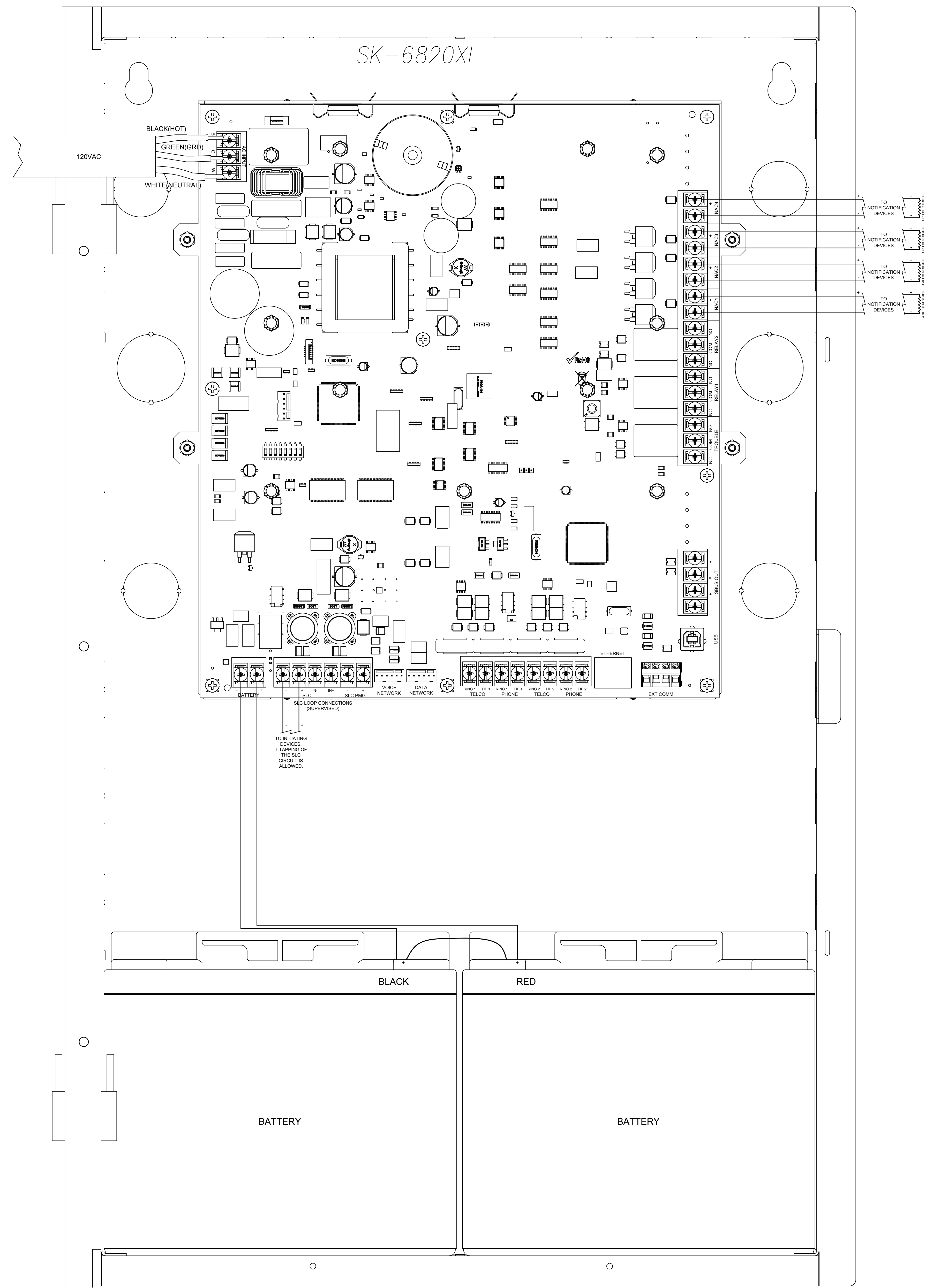
APPROVED BY: DATE:
MIKE REGAN 1/22/23

NICET STAMP
Michael Regan, ET
NICET Level III Fire Alarm
Technician ID: 144327
Expires: 3/1/2023

PROJECT NUMBER:
05131L

SHEET TITLE:
COVER PAGE &
GENERAL INFORMATION

SHEET NUMBER:
FA - 01
OF 05

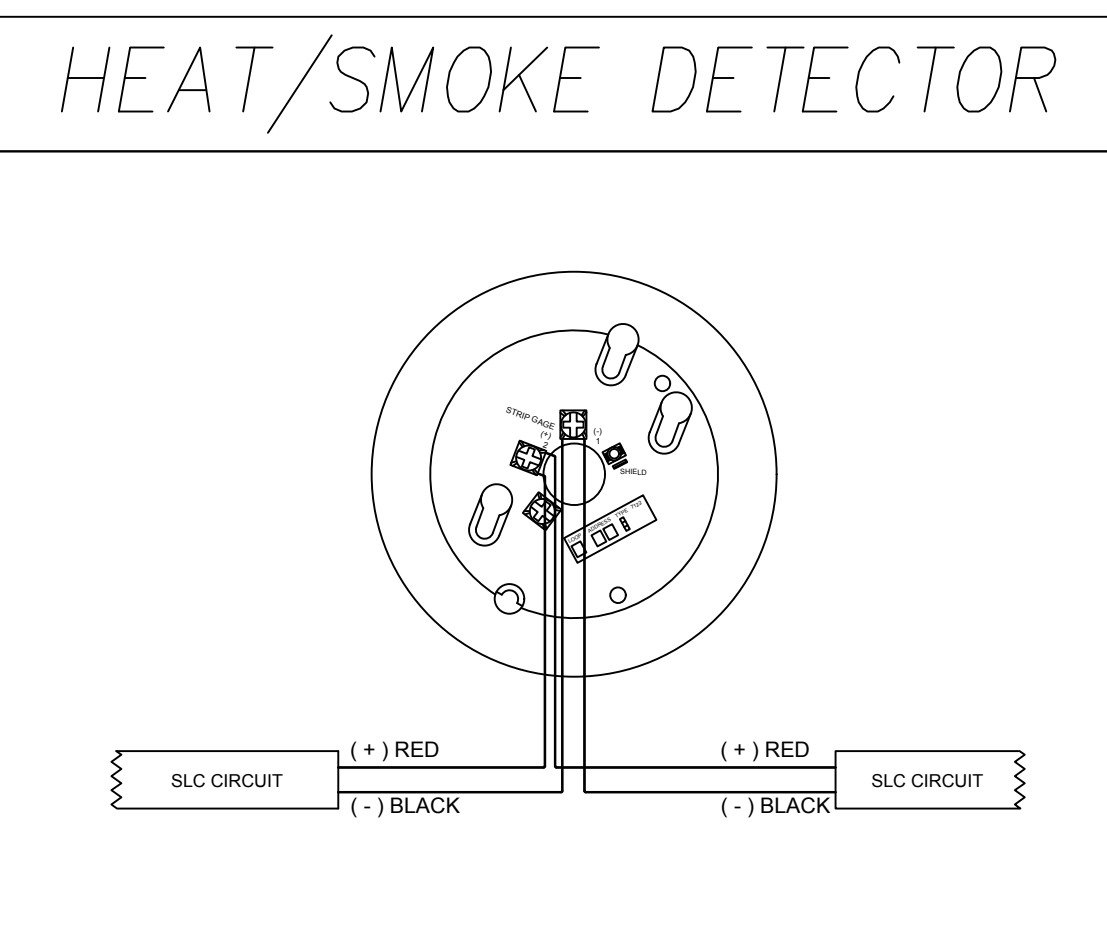
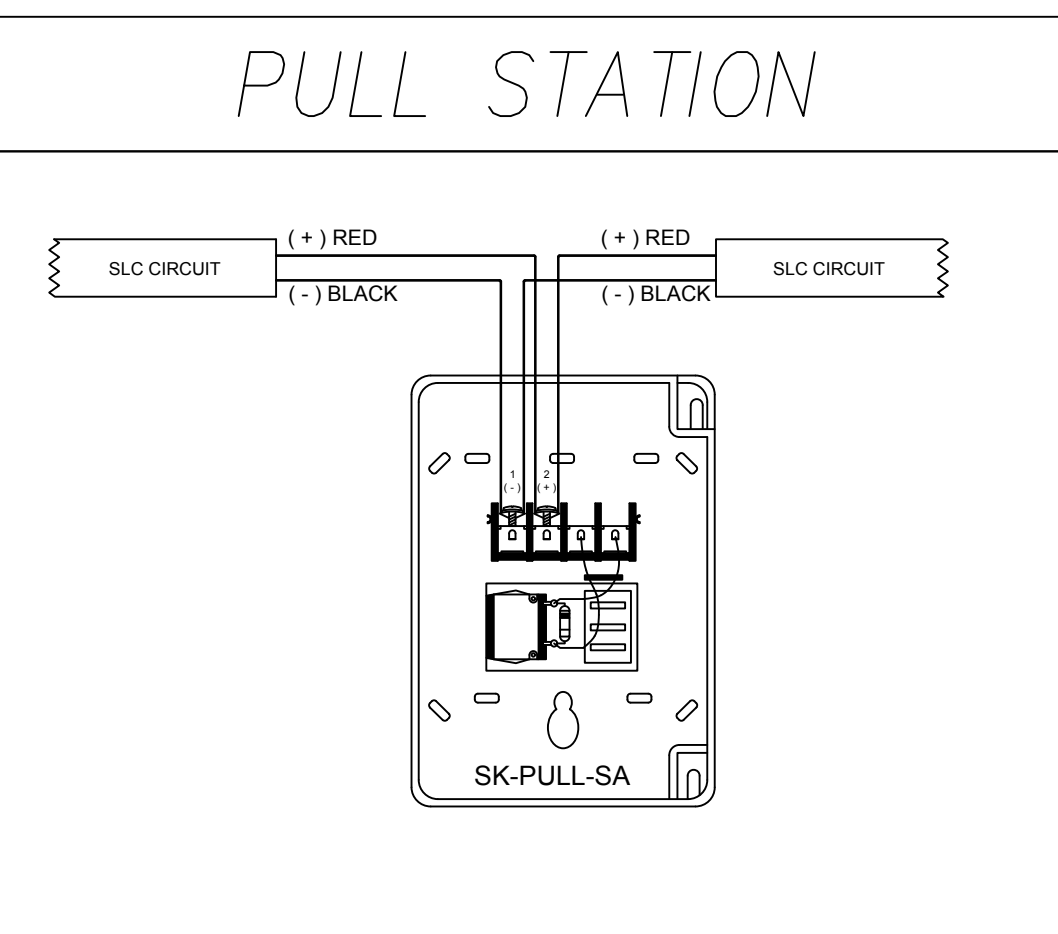
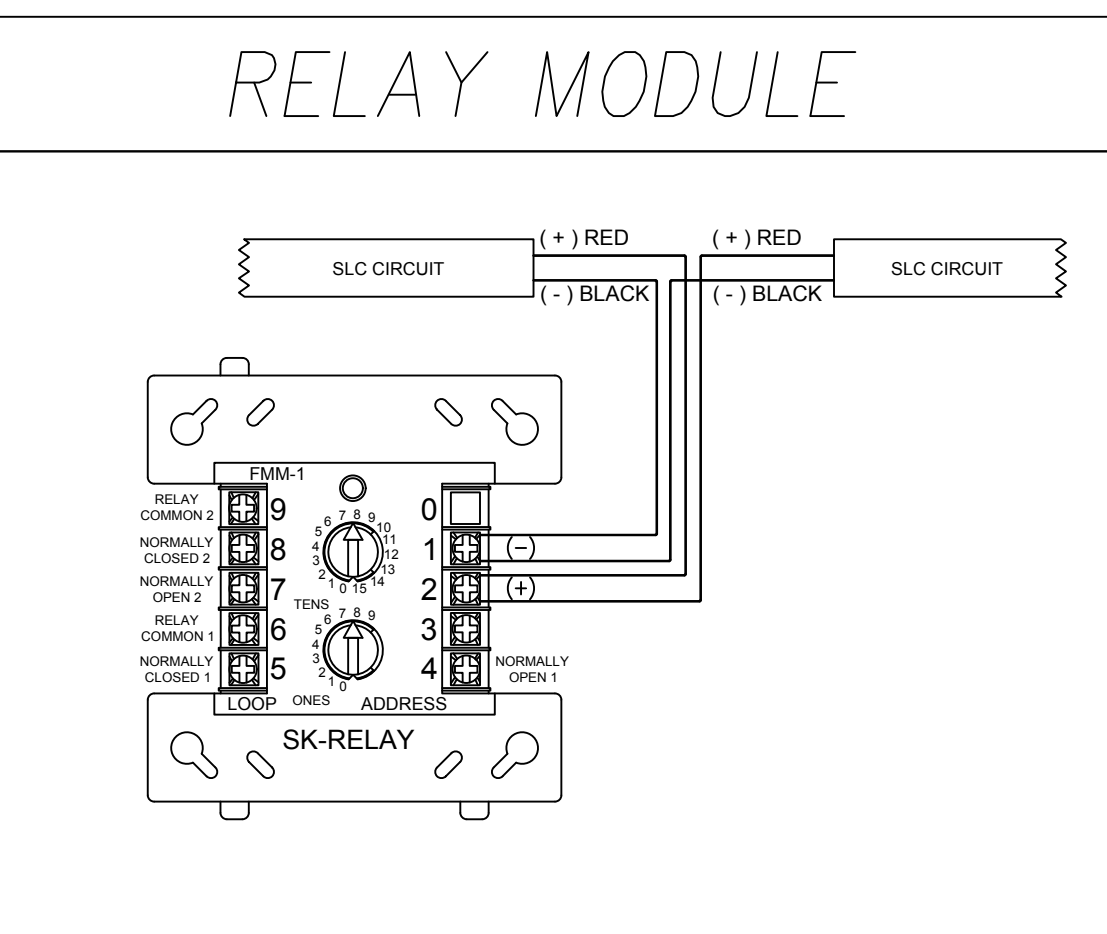
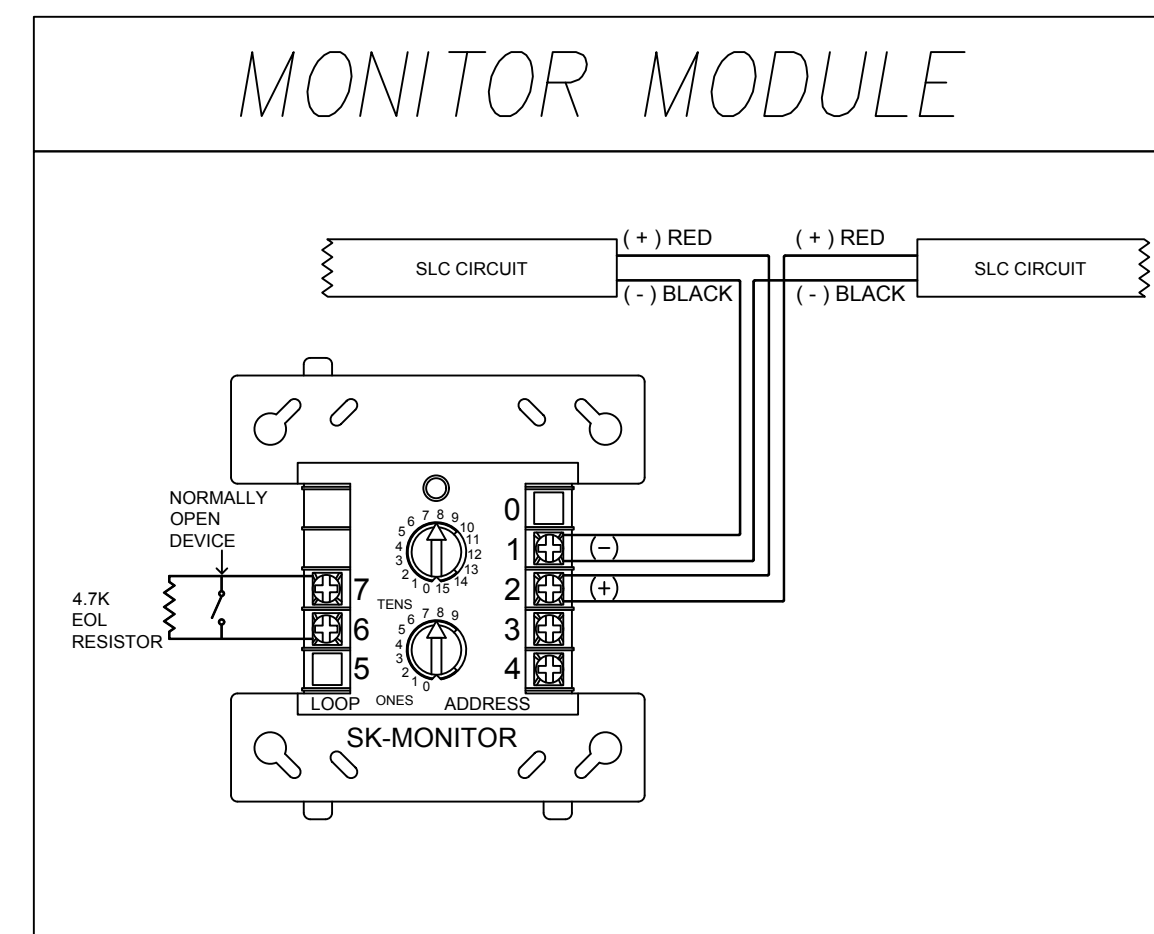
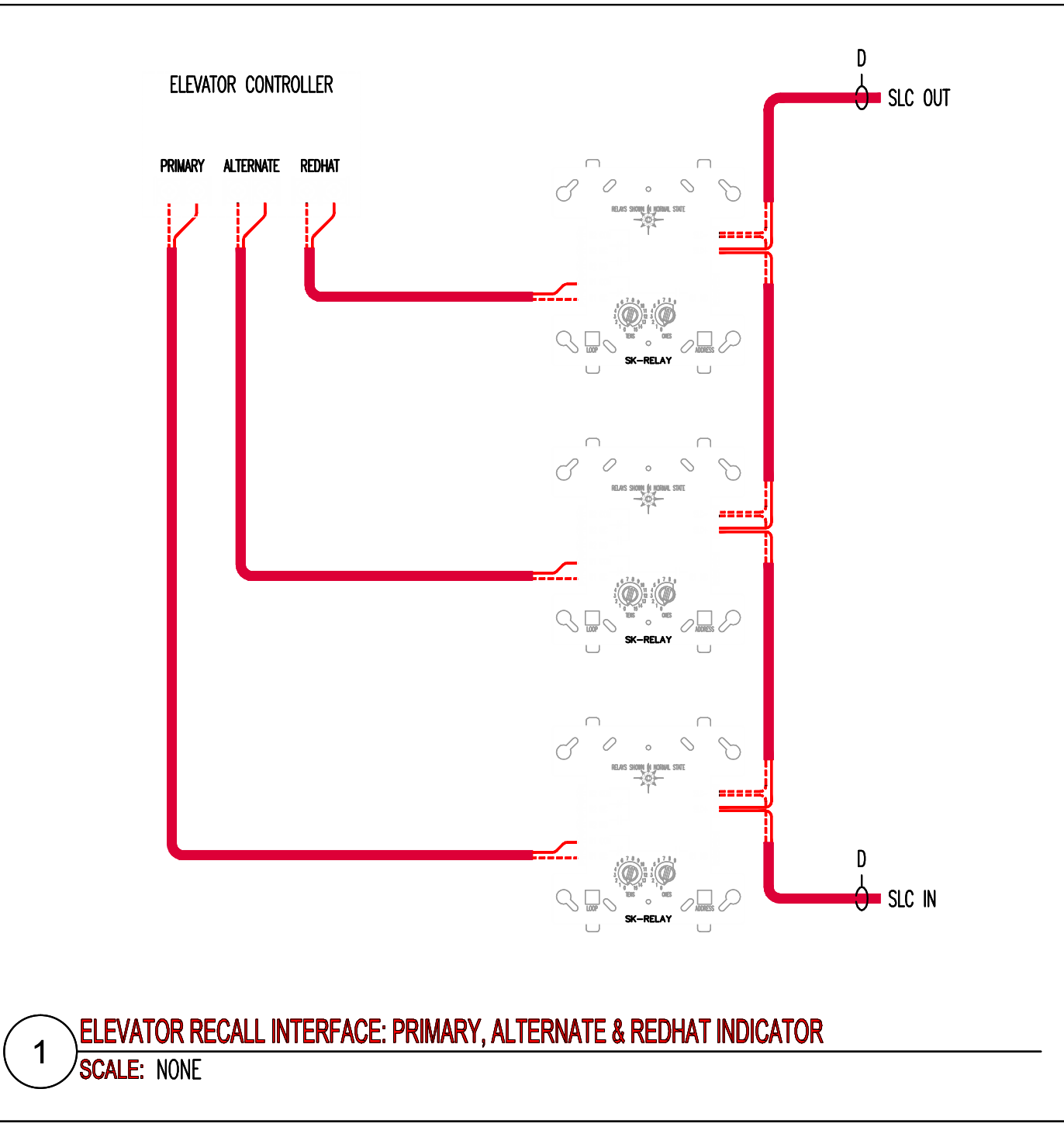


City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Honeywell IntelliKnight 6820 Battery Calculation						
Secondary Power Source Requirements						
Device Type	Qty	Standby Current (amps)		Secondary Alarm Current (amps)		Total
		Current Draw	Total	Current Draw	Total	
1. Control Panel	1	x 0.190000	= 0.190000	x 0.250000	= 0.250000	
2. Addressable SLC Devices						
SK-PHOTO (-T)	248	x 0.000300	= 0.074400	x 0.000300	= 0.074400	
SK-PHOTO-W (-T)		x 0.000200	= 0.000400	x 0.000450	= 0.000450	
SK-HEAT-HT (-ROR)	10	x 0.000300	= 0.003000	x 0.000300	= 0.003000	
SK-HEAT-WHT (-ROR)		x 0.000200	= 0.000400	x 0.000450	= 0.000450	
SK-BEAM		x 0.002000	= 0.002000	x 0.002000	= 0.002000	
SK-BEAM-T		x 0.002000	= 0.002000	x 0.002000	= 0.002000	
SK-DUCT		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
SK-ACCLIMATE		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
SK-CONTROL		x 0.000375	= 0.000375	x 0.000375	= 0.000375	
SK-MONITOR	27	x 0.000375	= 0.010125	x 0.000375	= 0.010125	
SK-MINIMON		x 0.000375	= 0.000375	x 0.000375	= 0.000375	
SK-PULL-SA	1	x 0.000375	= 0.000375	x 0.000375	= 0.000375	
SK-PULL-DA		x 0.000375	= 0.000375	x 0.000375	= 0.000375	
SK-MONITOR-2		x 0.000750	= 0.000750	x 0.000750	= 0.000750	
SK-MON-10		x 0.003500	= 0.003500	x 0.003500	= 0.003500	
SK-RELAY-6		x 0.001450	= 0.001450	x 0.001450	= 0.001450	
SK-CONTROL-6		x 0.002250	= 0.002250	x 0.002250	= 0.002250	
SK-RELAY	28	x 0.000255	= 0.007140	x 0.000255	= 0.007140	
SK-RELAYMON-2		x 0.001300	= 0.001300	x 0.001300	= 0.001300	
SK-ZONE		x 0.000270	= 0.000270	x 0.000270	= 0.000270	
SK-ZONE-6		x 0.002000	= 0.002000	x 0.002000	= 0.002000	
SK-FIRE-CO		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
3. SLC Accessory Bases						
B200S		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
B200S-LF		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
B200SR		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
B200SR-LF		x 0.000300	= 0.000300	x 0.000300	= 0.000300	
B224RB		x 0.000500	= 0.000500	x 0.000500	= 0.000500	
RTS151		x 0.007500	= 0.007500	x 0.007500	= 0.007500	
RTS151KEY		x 0.000500	= 0.000500	x 0.000500	= 0.000500	
RA100Z		x 0.000500	= 0.000500	x 0.000500	= 0.000500	
4. SLC Isolator Devices						
SK-ISO		x 0.000450	= 0.000450	x 0.000450	= 0.000450	
ISO-6		x 0.002700	= 0.002700	x 0.002700	= 0.002700	
B224BI		x 0.000500	= 0.000500	x 0.000500	= 0.000500	
5. Auxiliary Power Draw - SLC Devices						
SK-CONTROL (Aux. Power)		x 0.001700	= 0.001700	x 0.001700	= 0.001700	
SK-CONTROL-6 (Aux. Power)		x 0.008000	= 0.008000	x 0.008000	= 0.008000	
SK-ZONE (Aux. Power)		x 0.012000	= 0.012000	x 0.009000	= 0.009000	
SK-ZONE-6 (Aux. Power)		x 0.050000	= 0.050000	x 0.070000	= 0.070000	
B200S (Aux. Power)		x 0.000500	= 0.000500	x 0.003500	= 0.003500	
B200S-LF (Aux. Power)		x 0.000500	= 0.000500	x 0.003500	= 0.003500	
B200SR (Aux. Power)		x 0.000500	= 0.000500	x 0.003500	= 0.003500	
B200SR-LF (Aux. Power)		x 0.001000	= 0.001000	x 0.001250	= 0.001250	
6. Accessory Modules						
8815	1	x 0.078000	= 0.078000	x 0.078550	= 0.078550	
8860		x 0.020000	= 0.020000	x 0.025000	= 0.025000	
8824		x 0.045000	= 0.045000	x 0.045000	= 0.045000	
8486		x 0.010000	= 0.010000	x 0.010000	= 0.010000	
8895XL		x 0.010000	= 0.010000	x 0.010000	= 0.010000	
8855		x 0.020000	= 0.020000	x 0.025000	= 0.025000	
8860		x 0.025000	= 0.025000	x 0.030000	= 0.030000	
8864		x 0.145000	= 0.145000	x 0.145000	= 0.145000	
8865-3		x 0.350000	= 0.350000	x 0.350000	= 0.350000	
8880		x 0.350000	= 0.350000	x 0.200000	= 0.200000	
8883		x 0.000000	= 0.000000	x 0.220000	= 0.220000	
SK-IP-2		x 0.135000	= 0.135000	x 0.135000	= 0.135000	
SK-IP-2UD		x 0.155000	= 0.155000	x 0.155000	= 0.155000	
CELL-MOD		x 0.550000	= 0.550000	x 0.100000	= 0.100000	
CELL-CAB-SK		x 0.550000	= 0.550000	x 0.100000	= 0.100000	
WSK-WGI		x 0.040000	= 0.040000	x 0.040000	= 0.040000	
SK-NIC		x 0.240000	= 0.240000	x 0.240000	= 0.240000	
SK-NIC-KIT		x 0.021000	= 0.021000	x 0.021000	= 0.021000	
SK-FSL		x 0.075000	= 0.075000	x 0.075000	= 0.075000	
SK-FML		x 0.053000	= 0.053000	x 0.053000	= 0.053000	
SK-FFT		x 0.120000	= 0.120000	x 0.230000	= 0.230000	
Miscellaneous Device 1		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
Miscellaneous Device 2		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
Miscellaneous Device 3		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
Miscellaneous Device 4		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
8. Output Circuits						
NAC 1		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
NAC 2		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
NAC 3		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
NAC 4		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
I/O 5		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
I/O 6		x 0.000000	= 0.000000	x 0.000000	= 0.000000	
Total Standby Load			0.363040	Total Alarm Load	0.423590	

Honeywell IntelliKnight 6820 Battery Calculation						
Note 1: You are fully responsible for verifying these calculations.						
Note 2: Use the dropdowns in the yellow cells to enter values.						
Calculation in Total Sheet						
		Standby Load Current		Required Standby Time in Hours		
		0.36304 Amps	x	24 Hours	=	8.713 AH
		Alarm Load Current (Amps)		Required Alarm Time in Minutes		
		0.42359 Amps	x	5 Minutes	=	0.036 AH
		Multiply by the Derating Factor		Total Current Load		8.749 AH
				x 1.20		
				Total Ampere Hours Required		10.50 AH
				Recommended Batteries:		BAT-12120 - 12AH Batteries
Battery Check						
Current Draw Check						



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465 PROGRESS OAKCE
SPRINGDALE, OH 45246

ON-SITE CONTACT: JIM POULIN (703)929-8231

NO.	BY	DATE	REVISION DESCRIPTION
0	J.S.	1/21/23	SUBMITTAL DRAWINGS

DRAWN BY: JOE SHELDON
DESIGNED BY: JOE SHELDON
APPROVED BY: MIKE REGAN

DATE: 1/21/23
DATE: 1/21/23
DATE: 1/22/23

NICET STAMP
Michael Regan, ET
NICET Level III Fire Alarm
Technician ID: 144327
Expires: 3/1/2023

PROJECT NUMBER: 05131L

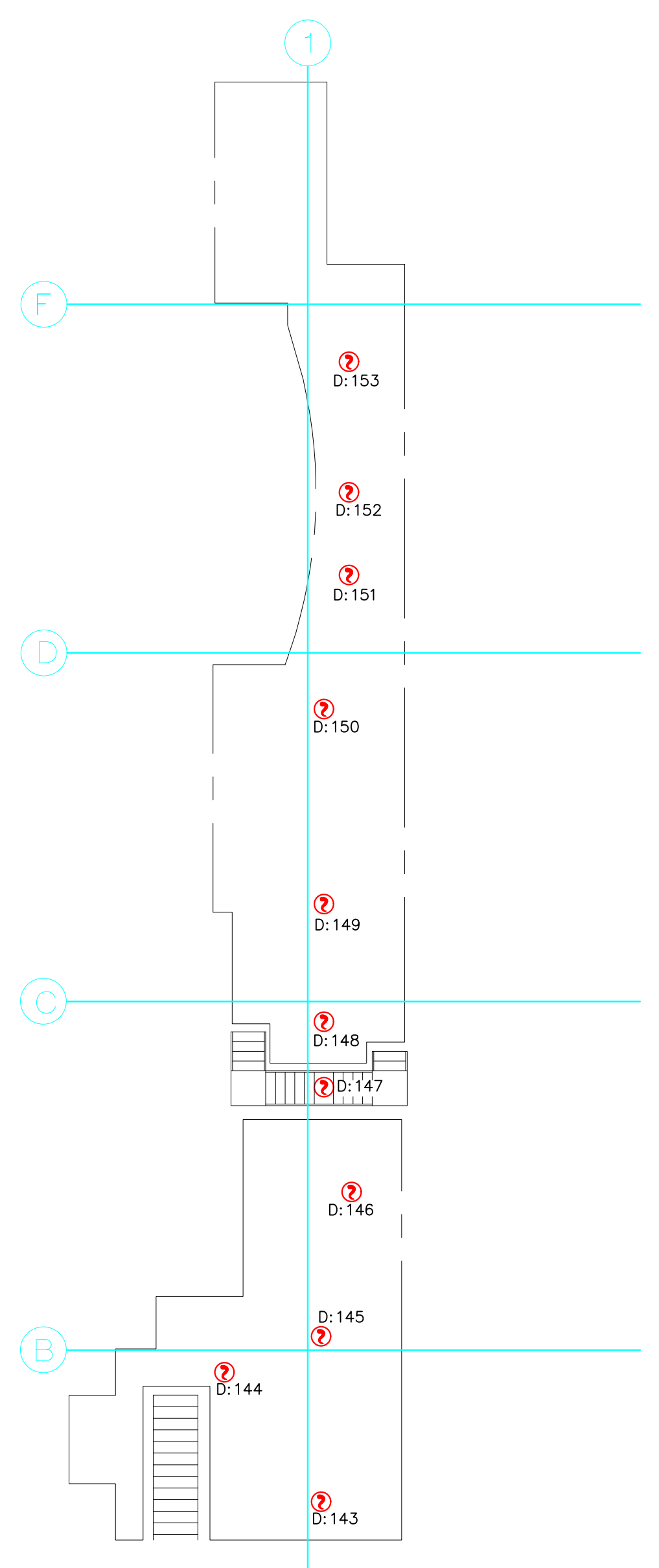
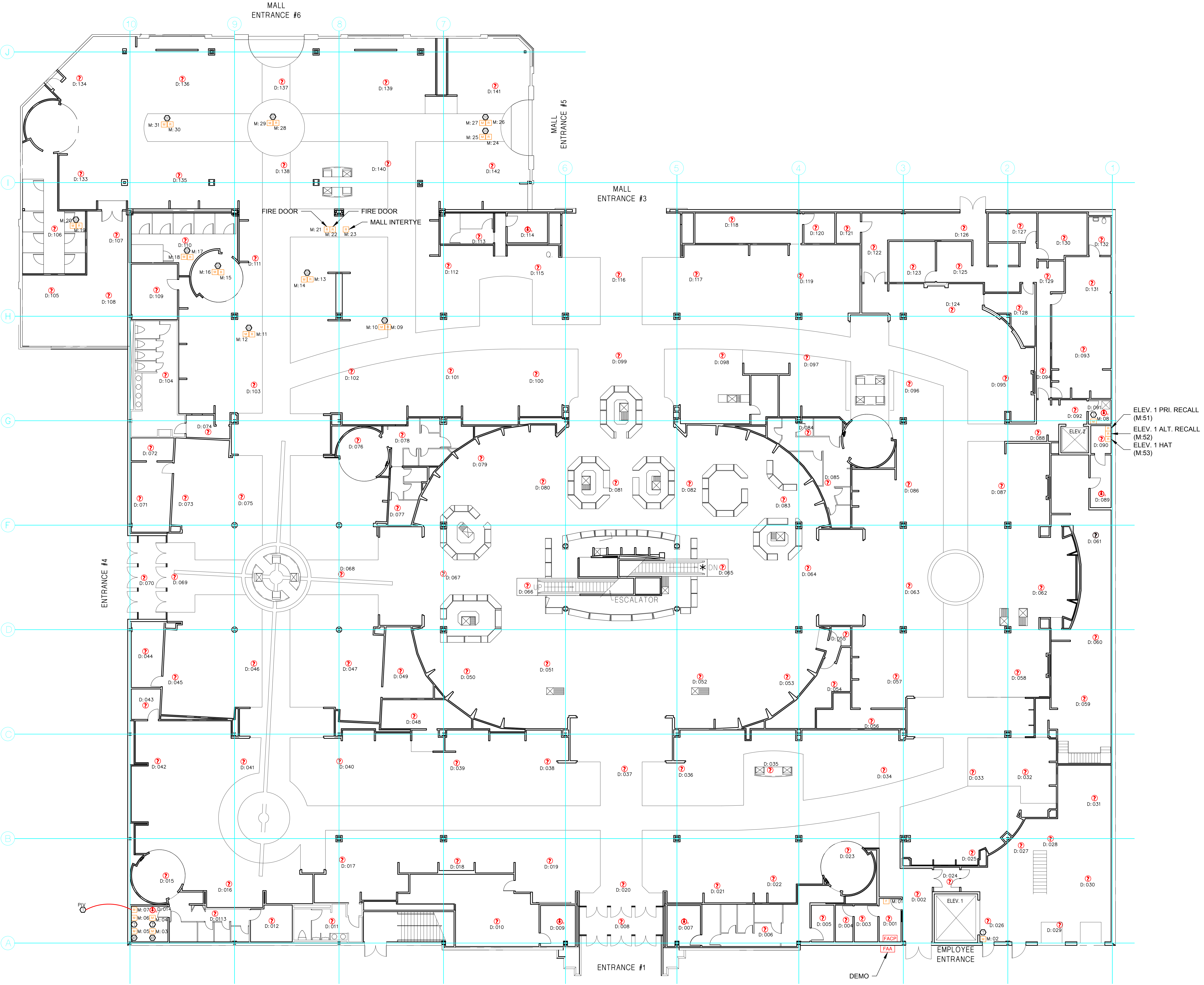
SHEET TITLE: PANEL & DEVICE DETAILS

SHEET NUMBER: FA - 02 OF 05

LEGEND	
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR (DEMO)
F	FIRE ALARM PULL STATION
PS	PHOTO SMOKE DETECTOR
HD	HEAT DETECTORS (135° RATE OF RISE)
DD	DUCT DETECTOR (EXISTING)
RM	ADDRESSABLE RELAY MODULE
AM	ADDRESSABLE MONITOR MODULE

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic



1ST FLOOR
SCALE: 3/32"=1'

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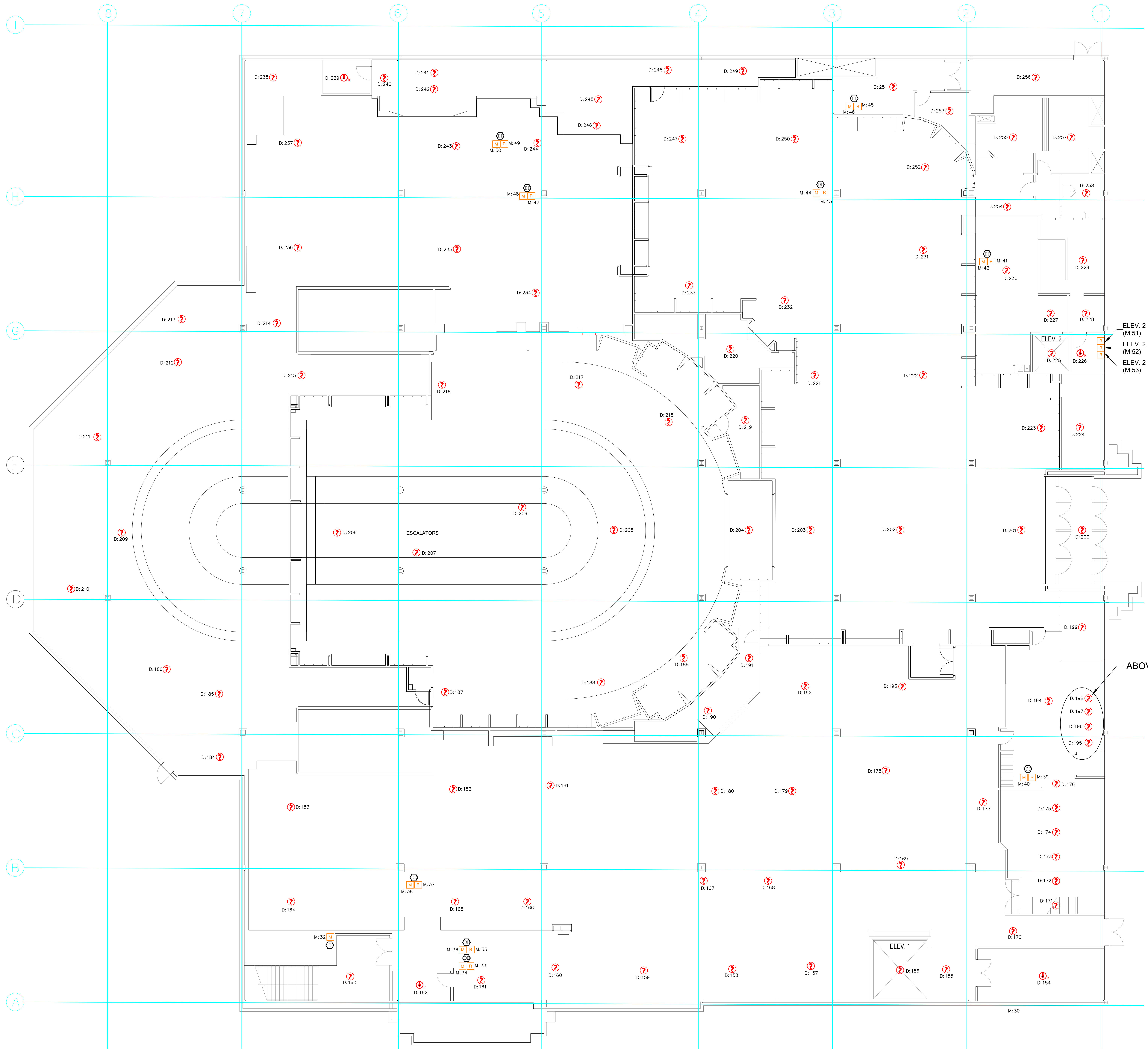
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DESIGNED BY: JOE SHELDON DATE: 1/21/23
APPROVED BY: MIKE REGAN DATE: 1/22/23

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Michael Regan, ET
Michael Regan
NICET Level III Fire Alarm
Technician ID: 144327
Expires: 3/1/2023

PROJECT NUMBER:
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SHEET TITLE:
1ST FLOOR
DEVICE LAYOUT

SHEET NUMBER:
FA - 04
OF 05



LEGEND	
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR (DEMO)
F	FIRE ALARM PULL STATION
?	PHOTO SMOKE DETECTOR
?	HEAT DETECTORS (135° RATE OF RISE)
?	DUCT DETECTORS (EXISTING)
R	ADDRESSABLE RELAY MODULE
M	ADDRESSABLE MONITOR MODULE

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DRAWN BY:		NO. BY	
JOE SHELDON		0	
DESIGNED BY:		DATE	
JOE SHELDON		1/21/23	
APPROVED BY:		DATE	
MIKE REGAN		1/22/23	
NICET STAMP			
Michael Regan, ET <i>Michael Regan</i> NICET Level III Fire Alarm Technician ID: 144327 Expires: 3/1/2023			
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05131L		2ND FLOOR DEVICE LAYOUT	
SHEET NUMBER:		SHEET NUMBER:	
FA - 05		OF 05	

2ND FLOOR
SCALE: 3/32"=1'