

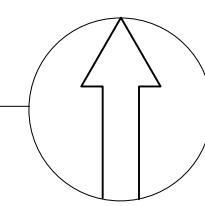
PSE OPERATIONAL TRAINING CENTER

325 TODD ROAD NW
PUYALLUP, WA 98371



VICINITY MAP

NTS FIRE ALARM SYSTEM



DEVICE LEGEND			
SYMBOL	MANUFACTURER	PART NO	DESCRIPTION
[NAC]	HONEYWELL	HPF-PS10	10.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE
[RADIO]	HONEYWELL	HWF2V-COM	LTE DIGITAL CELLULAR FIRE ALARM COMMUNICATOR AND INTERNET PANEL, VERIZON LTE / IP
[S]	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R, FLASHSCAN AND CLIP MODE.
[CM]	NOTIFIER	FCM-1	ADDRESSABLE CONTROL MODULE W/ FLASHSCAN, 1 CLASS A OR 1 CLASS B
[DM]	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B
[FAA]	NOTIFIER	FDU-80	ANNUNCIATOR, TERMINAL MODE, 80-CHARACTER, BACKLIT LCD DISPLAY
[RM]	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS
[S]	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.
[135° H]	NOTIFIER	FST-951R W/B300-6	LOW-PROFILE, INTELLIGENT, RATE-OF-RISE THERMAL SENSOR, FLASHSCAN ONLY.
[ISO]	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE
[F]	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.
[FACU]	NOTIFIER	NFS2-640	INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL UNIT
[WP]	SYSTEM SENSOR	P2GRKLED	2-WIRE HORN STROBE, STANDARD CD, RED, OUTDOOR
[WP]	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE
[H]	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE
[WP]	SYSTEM SENSOR	SRK	STROBE, STANDARD CD, RED, OUTDOOR
[WP]	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE
[T]	SYSTEM SENSOR	RTS-O	LOW TEMP. SENSOR
[SS DC]	BY OTHERS	BY OTHERS	SURGE SUPPRESSORS PROVIDED BY OTHERS

BILL OF MATERIALS

QUANTITY	MANUFACTURER	PART NO	DESCRIPTION	MOUNTING	BOX
1	NOTIFIER	NFS2-640	INTELLIGENT ADDRESSABLE FIRE ALARM CONTROL UNIT	72" TO TOP	SUPPLIED
1	NOTIFIER	CPU2-640	NFS2-640 FIRE ALARM CONTROL UNIT MAIN BOARD (CENTRAL PROCESSING UNIT)		
1	NOTIFIER	SBB-B4	BACKBOX ASSEMBLY, TWO TIERS, BLACK, 26.88 LBS.		
1	NOTIFIER	DR-B4	DOOR ASSEMBLY, WINDOW, TWO TIERS, BLACK, 17.45 LBS.		
1	NOTIFIER	DP-DISP2	DRESS PANEL		
1	NOTIFIER	DP-1B	BLANK DRESS PANEL, COVERS ONE CAB-4 TIER, BLACK.		
1	NOTIFIER	UDACT-2	UNIVERSAL DIGITAL ALARM COMMUNICATOR TRANSMITTER-2		
1	NOTIFIER	KDM-R2	KEYPAD/DISPLAY UNIT		
1	NOTIFIER	BP2-4	BATTERY PLACE, USED TO COVER BATTERY AND POWER SUPPLY WHEN LOWER POSITION IS USED IN BACKBOX, 3.10 LBS.		
2	NOTIFIER	BMP-1	BLANK MODULE		
1	NOTIFIER	LEM-320	LOOP EXPANDER MODULE		
1	HONEYWELL	HPF-PS10	10.0 A, 120 VAC REMOTE CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE	72" TO TOP	SUPPLIED
1	HONEYWELL	HPF-PS10 MAIN BOARD	FIRE ALARM POWER SUPPLY MAIN BOARD		
1	NOTIFIER	FDU-80	ANNUNCIATOR, TERMINAL MODE, 80-CHARACTER, BACKLIT LCD DISPLAY	54" TO TOP	SUPPLIED
1	NOTIFIER	FDU-80 CARD	TERMINAL MODE, 80-CHARACTER, BACKLIT LCD DISPLAY		
2	NOTIFIER	DNR W/FSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC DUCT DETECTOR/ FSP-951R, FLASHSCAN AND CLIP MODE.	AS REQUIRED	SUPPLIED
14	SYSTEM SENSOR*	DST3	METAL SAMPLING TUBE DUCT WIDTHS 2 TO 4 FT		
14	NOTIFIER	FDM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS B	AS REQUIRED	4-SQUARE BOX
12	NOTIFIER	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM-C DRY CONTACTS	AS REQUIRED	4-SQUARE BOX
110	NOTIFIER	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY.	CEILING	3-ROUND BOX
4	NOTIFIER	FST-951R W/B300-6	LOW-PROFILE, INTELLIGENT, RATE-OF-RISE THERMAL SENSOR, FLASHSCAN ONLY.	CEILING	3-ROUND BOX
5	NOTIFIER	ISO-X	SLC LOOP ISOLATOR MODULE	AS REQUIRED	4-SQUARE BOX
19	NOTIFIER	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION. INCLUDES KEY LOCKING FEATURE.	48" TO TOP	1-GANG BOX
1	SYSTEM SENSOR	P2GRKLED	2-WIRE HORN STROBE, STANDARD CD, RED, OUTDOOR	80" TO BOTTOM	SUPPLIED (SA-WBB)
13	SYSTEM SENSOR	P2WLED	2-WIRE, HORN STROBE, WHITE	80" TO BOTTOM	1-GANG BOX
20	SYSTEM SENSOR	PC2WLED	2-WIRE, HORN STROBE, CEILING, WHITE	CEILING	1-GANG BOX
2	SYSTEM SENSOR	SRK	STROBE, STANDARD CD, RED, OUTDOOR	80" TO BOTTOM	SUPPLIED (SA-WBB)
4	SYSTEM SENSOR	SWLED	STROBE, WALL, WHITE	80" TO BOTTOM	1-GANG BOX
1	HONEYWELL	HWF2V-COM	LTE DIGITAL CELLULAR FIRE ALARM COMMUNICATOR AND INTERNET PANEL, VERIZON LTE / IP	AS REQUIRED	SUPPLIED
1	HONEYWELL	HWF2V-COM MAIN BOARD	MAIN BOARD		
1	POTTER	RTS-O	LOW TEMP. SENSOR	AS REQUIRED	1-GANG BOX
1	SPACEAGE	SSU00689	DOCUMENT RECORD BOX	AS REQUIRED	SUPPLIED
1	NOTIFIER	NFS-LBB	BATTERY CABINET	AS REQUIRED	SUPPLIED
1	ULTRATECH	IM-12120NB	12V 12AH BATTERY		COMMUNICATOR
2	ULTRATECH	IM-1272FA	12V 7AH BATTERY		NAC POWER SUPPLY
2	POWERSONIC	PS-12260	12V 26AH BATTERY		FACU
130LF		RDP BUS	4 CONDUCTOR SOLID COPPER FPLR/IR ANALOG UNSHIELDED / 184 SOL JKT FPLR 1M RL RED		
4000LF		SIGNAL LINE CIRCUIT	2 CONDUCTOR SOLID COPPER FPLR / 182 SOL JKT FPLR 1M RL RED		
2000LF		NOTIFICATION CIRCUIT	2 CONDUCTOR SOLID COPPER FPLR/IR UNSHIELDED / 142 SOL JKT FPLR 1M RL RED		
100LF		INDICATING	2 CONDUCTOR SOLID COPPER FPLR/IR / 182 SOL JKT FPLR 1M RL RED		
300LF		DIRECT BURIAL	2 CONDUCTOR SOLID COPPER UNSHIELDED / 142 SOL FPLR 1M RL WET/DIRECT BURIAL		
300LF		DIRECT BURIAL	2 CONDUCTOR SOLID COPPER UNSHIELDED / 182 SOL FPLR 1M RL WET/DIRECT BURIAL		

* VERIFY IF REMOTE SWITCH IS NEEDED AND CONFIRM CORRECT SAMPLING TUBE LENGTHS IN FIELD PRIOR TO ORDERING

BUILDING CODE NOTES

BUILDING TO BE CONSTRUCTION TYPE V-B, SPRINKLERED

A. PER TABLE 504.3 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE
1. OCCUPANCY GROUP 'B' ALLOWABLE: 60'-0" PROPOSED: 26'-2"

B. PER TABLE 504.4 ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE
1. OCCUPANCY GROUP 'B' ALLOWABLE: 3 STORIES PROPOSED: 1 STORIES

C. PER TABLE 506.2 ALLOWABLE AREA FACTOR IN SQUARE FEET
1. OCCUPANCY GROUP 'B' ALLOWABLE: 36,000 SF PROPOSED: 42,510 SF

D. ALLOWABLE AREA PER SECTION 506.2.1 EQUATION 5-1: $A_a = A_t + (NS \times I_f)$

1. ALLOWABLE BUILDING AREA = $36,000 + (9,000 \times 0.75) = 42,750$ SF
2. PROPOSED BUILDING AREA = 42,510 SF

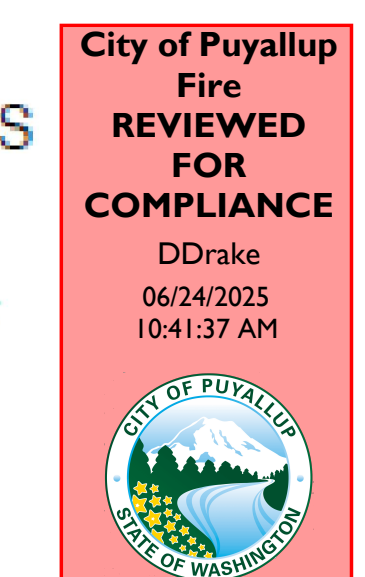
A. THE STRUCTURE WILL REQUIRE AN EMERGENCY RESPONDER RADIO ANALYSIS TO BE CONDUCTED (IFC 510). ANY DEFICIENCIES FOUND WILL NEED TO BE CORRECTED PRIOR TO CERTIFICATE OF OCCUPANCY ISSUANCE.

GENERAL NOTES

- INSTALL NEW ADDRESSABLE NOTIFIER 640 FIRE PANEL PER IFC 2021, NFPA 72 2019, NFPA 70 (NEC) 2017 REQUIREMENTS WITH WASHINGTON STATE AMENDMENTS. PROVIDE FULL DETECTION COVERAGE OF BUILDING PER LOCAL MUNICIPAL REQUIREMENTS AND NFPA 72 (2019) 17.5.3.1.
- INSTALL NEW POTTER PFC-4410G3 RELEASING PANEL. RELEASING PANEL SHALL BE MONITORED BY NOTIFIER 640 FIRE PANEL. PROVIDE ELECTRIC ZONE DETECTION IN COMM ROOM 104 AND SECURITY ROOM 103.
- CONDUIT IS TO BE PROVIDED AND INSTALLED BY OTHERS.
- CORE DRILLING REQUIRED TO FACILITATE ALL CONDUIT WORK. CORE DRILLED HOLES SHALL NOT PENETRATE THROUGH ANY STRUCTURAL BEAMS, REBAR AND/OR CONDUIT CONTAINED WITHIN THE CONCRETE SLABS AND/OR WALLS THAT MAY COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING. CORE DRILL LOCATION MAY NEED TO BE ADJUSTED TO ACCOMMODATE OBSTRUCTIONS. PRIOR TO DRILLING COORDINATE EXACT LOCATIONS OF HOLES WITH GENERAL CONTRACTOR.
- THIS DRAWING SHOWS THE LAYOUT OF THE FIRE ALARM SYSTEM AND INDICATES THE APPROXIMATE LOCATION OF EQUIPMENT, WIRING, AND CONDUIT. WIRING AND CONDUIT ARE SHOWN POINT TO POINT ONLY. THE CONDUIT IS TO BE INSTALLED IN APPROXIMATELY THE AREA AS INDICATED ON THE DRAWINGS; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS AS MAY BE REQUIRED TO SUIT STRUCTURAL OR JOB CONDITIONS. THE CONTRACTOR SHALL FURNISH ALL OFFSETS, ADDITIONAL MATERIAL, CONDUIT ADJUSTMENTS, ETC. AS MAY BE REQUIRED TO MEET INSTALLATION CONDITIONS. ACTUAL WIRE RUNS SHALL BE KEPT IN AN ORGANIZED MANNER BY THE INSTALLING CONTRACTOR TO FACILITATE AS-BUILT DRAWINGS.
- PRIOR TO ROUGH-IN COORDINATE THE EXACT LOCATIONS OF FIRE ALARM EQUIPMENT, DEVICES, AND CONDUIT WITH THE ELECTRICAL, MECHANICAL, AND FIRE PROTECTION CONTRACTORS.
- THE CONTRACTOR IS TO REVIEW AND VERIFY ALL FIELD CONDITIONS, MEASUREMENTS, PLANS, AND STOCK LISTS, PRIOR TO ORDERING, FABRICATION, AND INSTALLING. SECURITY SOLUTIONS NW WILL NOT ASSUME THE RESPONSIBILITY OF THE ALARM COMPONENTS OR CONDUIT FITTING PER PLAN.
- THE FIRE ALARM SYSTEM CONTRACTOR AND GENERAL CONTRACTOR SHALL COORDINATE ALL CUTTING, PATCHING, AND FINISH WORK.
- ALL ALARM WIRING IS TO BE IN ACCORDANCE WITH NFPA 72
- WIRING PATHWAY CLASS DESIGNATIONS:
- NAC PATHWAY CLASS DESIGNATIONS: CLASS B
- SLC PATHWAY CLASS DESIGNATIONS: CLASS B
- PENETRATIONS THROUGH FIRE RATED PARTITIONS TO BE SEALED BY OTHERS TO MAINTAIN THE INTEGRITY OF THE PARTITION.
- MOUNT PULL STATIONS WITHIN 60" OF THE LATCH SIDE OF THE EXIT DOORWAY AND BETWEEN 42" AND 48" ABOVE FLOOR LEVEL. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT.
- LOCATE SMOKE AND HEAT DETECTORS NOT CLOSER THAN 36" FROM AIR-SUPPLY DIFFUSER OR RETURN-AIR OPENINGS.
- LOCATE DETECTORS NOT CLOSER THAN 12" FROM ANY PART OF A LIGHTING FIXTURE AND NOT DIRECTLY ABOVE PENDANT MOUNTED OR INDIRECT LIGHTING.
- INSTALL A COVER ON EACH SMOKE DETECTOR THAT IS NOT PLACED IN SERVICE DURING CONSTRUCTION. COVER SHALL REMAIN IN PLACE EXCEPT DURING SYSTEM TESTING.
- AUDIBLE/VISUAL ALARM INDICATION DEVICES SHALL BE INSTALLED NOT LESS THAN 6" BELOW THE CEILING BETWEEN 80" AND 96" ABOVE FLOOR LEVEL. INSTALL HORN/STROBES ON FLUSH MOUNTED BACK BOXES. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT.
- AUDIBLE ALARM INDICATION DEVICES SHALL BE INSTALLED NOT LESS THAN 90" ABOVE THE FLOOR AND NOT LESS THAN 6" BELOW THE CEILING. ALL DEVICES SHALL BE MOUNTED AT THE SAME HEIGHT.
- MOUNT REMOTE ANNUNCIATOR AT 54" ABOVE FLOOR LEVEL.
- CONTRACTOR SHALL PERFORM AND MEET ALL CODE REQUIRED TESTS, AND FILE A MATERIALS TEST CERTIFICATE PER NFPA 72.

FSCU - BILL OF MATERIAL					
QUANTITY	MANUFACTURER	PART NO	DESCRIPTION	MOUNTING	BOX
1	POTTER	PFC-4410G3	RELEASING CONTROL PANEL, 4 NAC, 4 ZONE	72" TO TOP	SUPPLIED
4	SYSTEM SENSOR	2W-B	SMOKE DETECTOR, CONVENTIONAL	CEILING	3-ROUND BOX
1	POTTER	3001000	ABORT SWITCH, RED BUTTON	48" TO TOP	4-SQUARE
1	POTTER	RMS-2T-WP-LPRED	DUAL ACTION MANUAL RELEASE OUTDOOR RED - "FIRE SUPPRESSION RELEASE"	48" TO TOP	1-GANG
2	ULTRATECH	IM-1272FA	12V 7AH BATTERY		FSCU

DEVICE LEGEND			
SYMBOL	MANUFACTURER	PART NO	DESCRIPTION
[PFC]	POTTER	PFC-4410G3	RELEASING CONTROL PANEL, 4 NAC, 4 ZONE
[S]	SYSTEM SENSOR	2W-B	SMOKE DETECTOR, CONVENTIONAL
[AB]	POTTER	3001000	ABORT SWITCH, RED BUTTON
[MR]	POTTER	RMS-2T-WP-LP	DUAL ACTION MANUAL RELEASE
[PWS]	BY OTHERS	BY OTHERS	PRE ACTION WATER FLOW SWITCH
[LRS]	BY OTHERS	BY OTHERS	PRE ACTION LOW AIR SWITCH
[TS]	BY OTHERS	BY OTHERS	PRE ACTION CONTROL VALVE



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.

SHEET INDEX	
SHEET	DESCRIPTION
FA.0.01	SHEET INDEX, LEGEND, GEN. NOTES, ETC...
FA.1.01	RISER DIAGRAM
FA.2.01	SITE PLAN
FA.2.02	BUILDING FLOOR PLAN - OVERALL
FA.2.03	SOUTH FLOOR PLAN
FA.2.04	NORTH SOUTH FLOOR PLAN
FA.2.05	ROOF FLOOR PLAN
FA.2.06	BUILDING ELEVATIONS
FA.3.01	OPERATIONS MATRIX & FSCU MATRIX
FA.4.01	PANEL & DEVICE DETAILS
FA.4.02	PFC-4410G3 DETAIL
FA.4.03	PANEL & DEVICE ELEVATIONS
FA.5.01	BATTERY CALCULATIONS

10.11.24
12.04.24
12.19.24
04.12.25

DRAWING FOR PERMIT SUBMITTAL
CHANGES PER ENGINEERS REVIEW
REVISIONS PER INTERNAL REVIEW & AUI COMMENTS
CHANGES PER ADDITION OF PRE ACTION RELEASING PANEL AND ZONE DETECTION

0
SYM
DESCRIPTION

1619 N. STATE ST
BELLINGHAM, WA 98225
T: 360.734.4940
F: 360.647.9540

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

DRAWING REVIEWED BY: CHRIS RUSSELL
NICET CERTIFICATION NO. 120520
FIRE ALARM SYSTEMS - LEVEL III
CERTIFICATION EXPIRES: AUGUST 1, 2025

SYSTEM TYPE
FIRE ALARM
PROJECT INFORMATION
**325 TODD ROAD NW
PUYALLUP, WA 98371**
PROJECT DESCRIPTION
PSE OPERATIONAL TRAINING CENTER

DRAWING SIZE: E1 SIZE 30"x42"

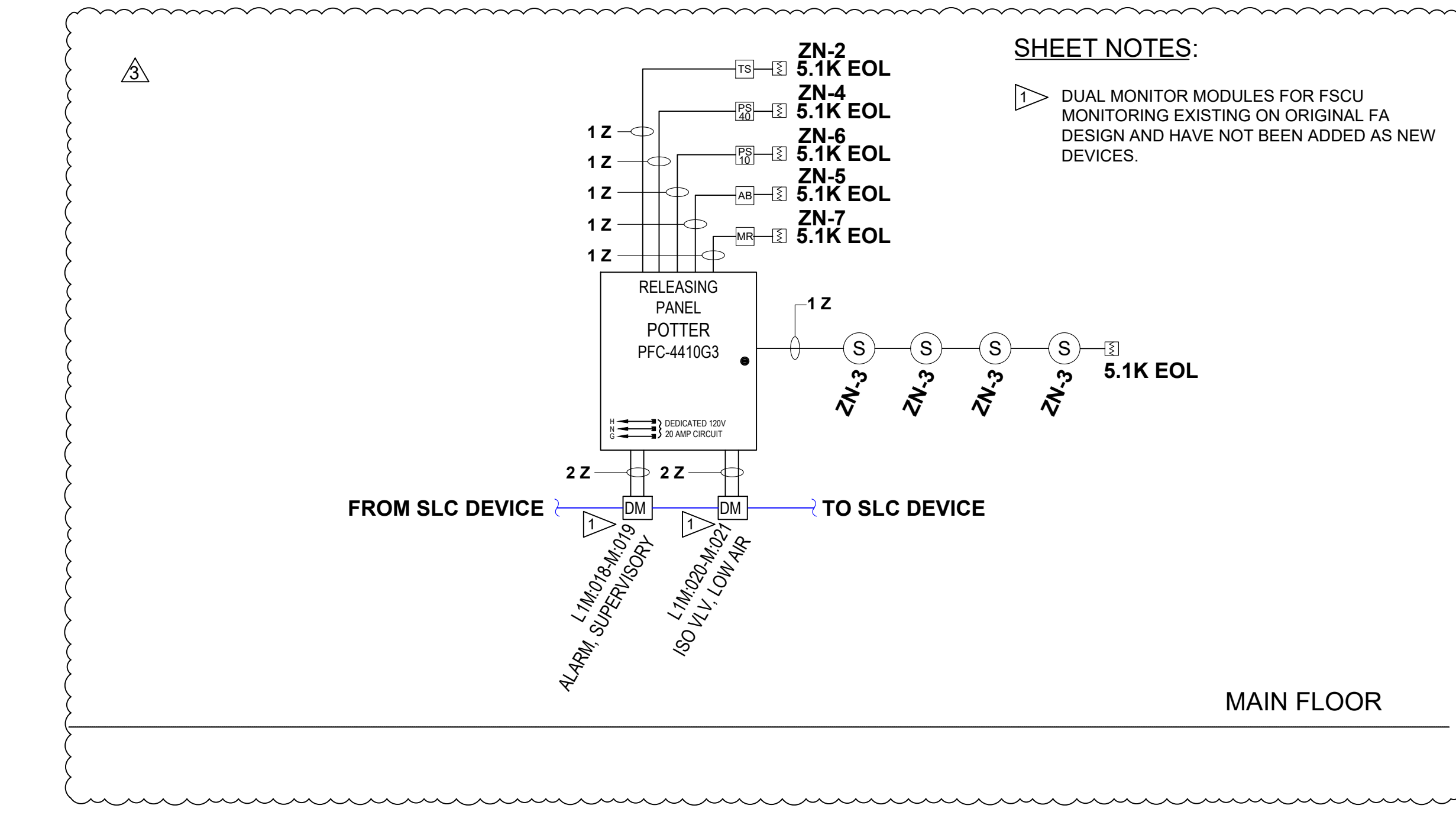
DRAWN BY: MATT WATT

DATE DRAWN: 10/11/2024
REV DATE: 04/12/2025 M.W.
BUSINESS LICENSE #
SECURSN790NE
ELECTRICAL LICENSE #
SECURSN954JC
UL IDENTIFICATION #
1237799-000

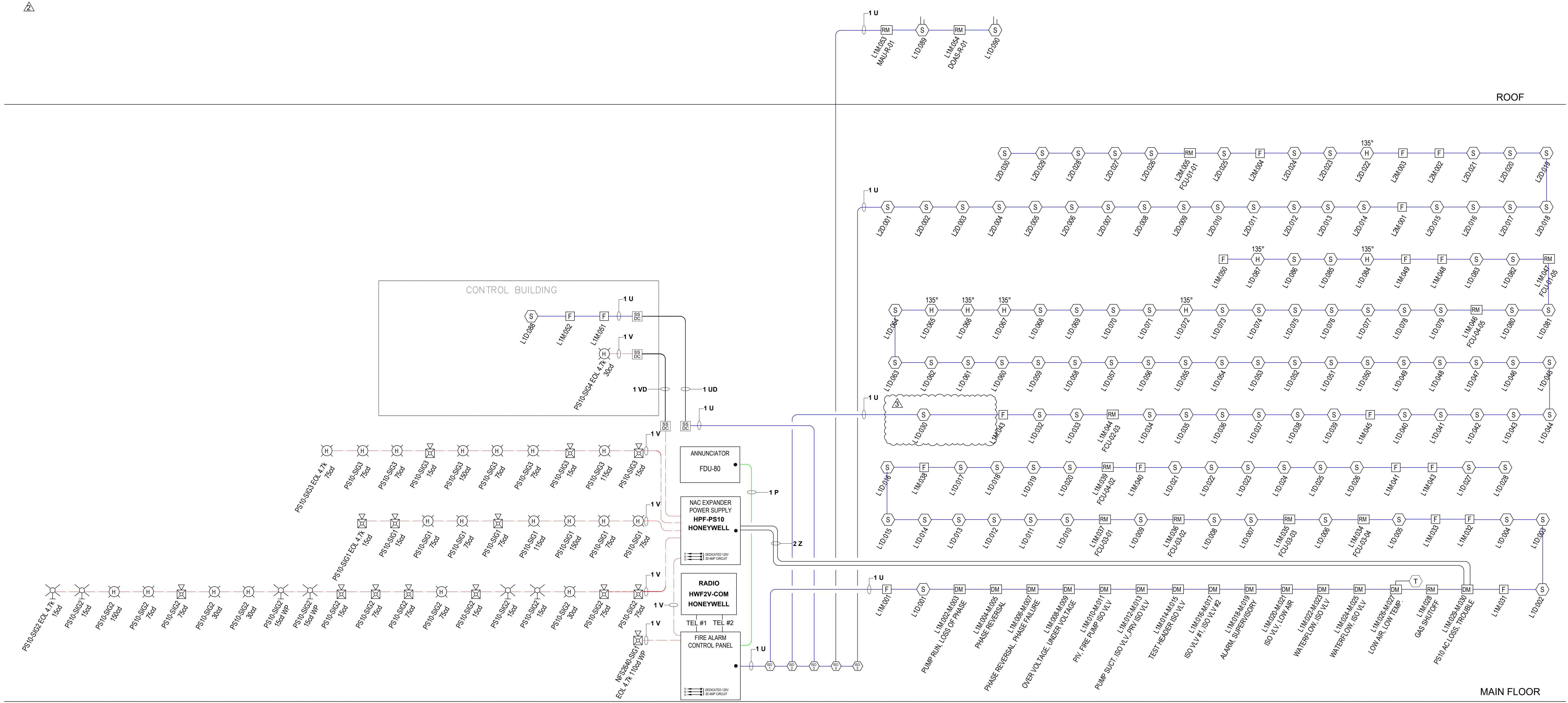
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Cable/Circuit Report

Source	Circuit	Circuit Type	Circuit Abbr	Wiring Style	Symbol	Type	Description	Gauge	Length
640	RDP BUS	Power/Serial	P	Class B		Fire Alarm	18/4 SOL JKT FPLR 1M RL RED	#18	130'-0"
HPF-PS10	SIG	Notification	V	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED	#14	200'-0"
640	SLC	Signaling line	U	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	4000'-0"
640/FSCU	IDC	Indicating	Z	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	300'-0"
HPF-PS10	SIG	Notification	VD	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#14	250'-0"
640	SLC	Signaling line	UD	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#18	250'-0"
TEST SWITCH	IDC	Indicating	K	Class B		Fire Alarm	18/6 SOL JKT FPLR 1M RL RED	#18	100'-0"



FSCU RISER DIAGRAM



RISER DIAGRAM

0	DRAWING FOR PERMIT SUBMITTAL	10.11.24	
1	CHANGES PER ENGINEERS REVIEW	12.04.24	
2	REVISIONS PER INTERNAL REVIEW & AHI COMMENTS	12.19.24	
3	CHANGES PER ADDITION OF PRE-ACTION RELEASING PANEL AND ZONE DETECTION	04.12.25	

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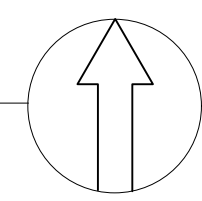
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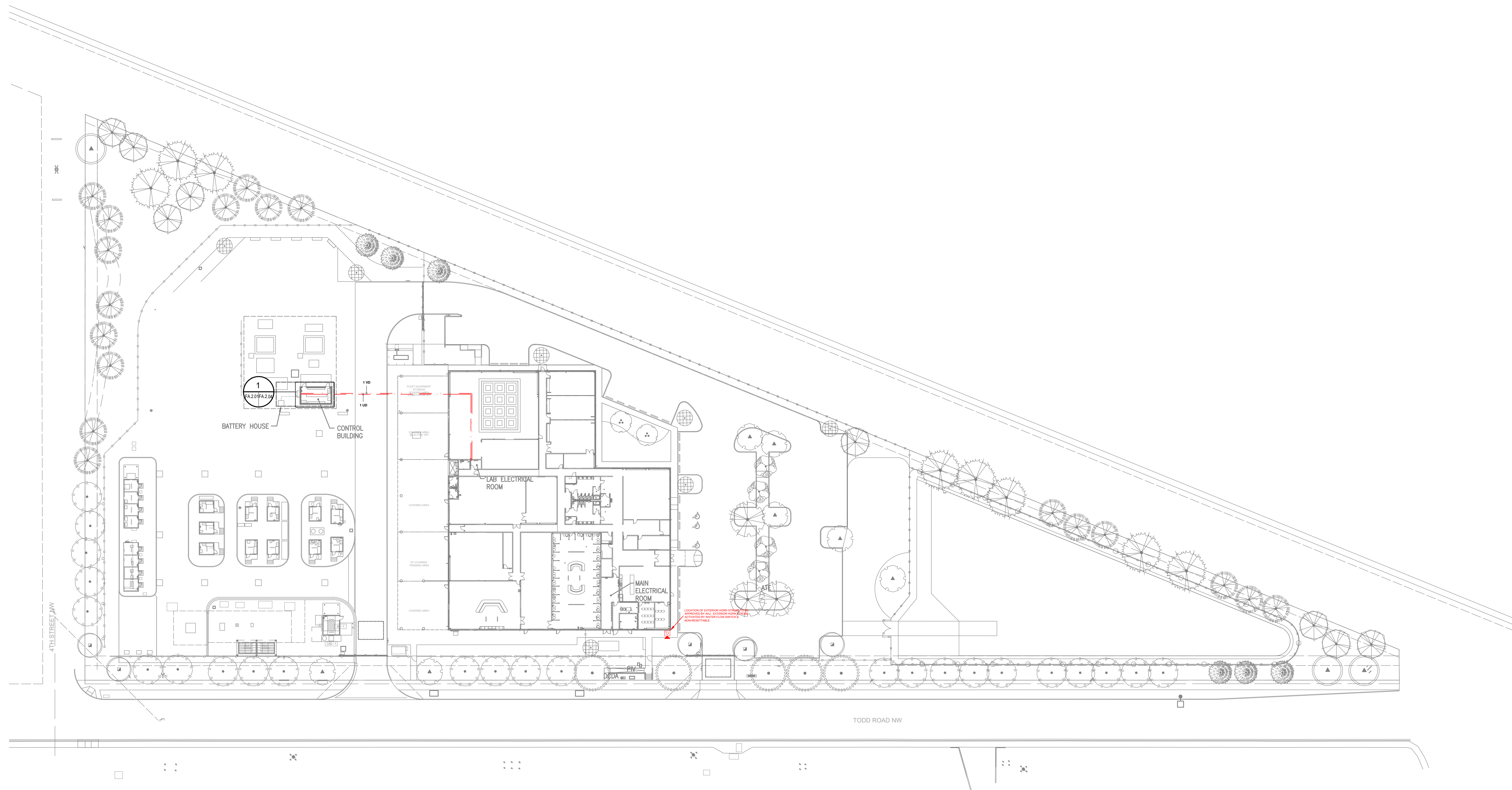
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SITE PLAN

SCALE: 1" = 40'-0"



NOTES:
 ALL DIMENSIONS
 TO THE CENTERLINE OF PAVING
 UNLESS OTHERWISE SPECIFIED
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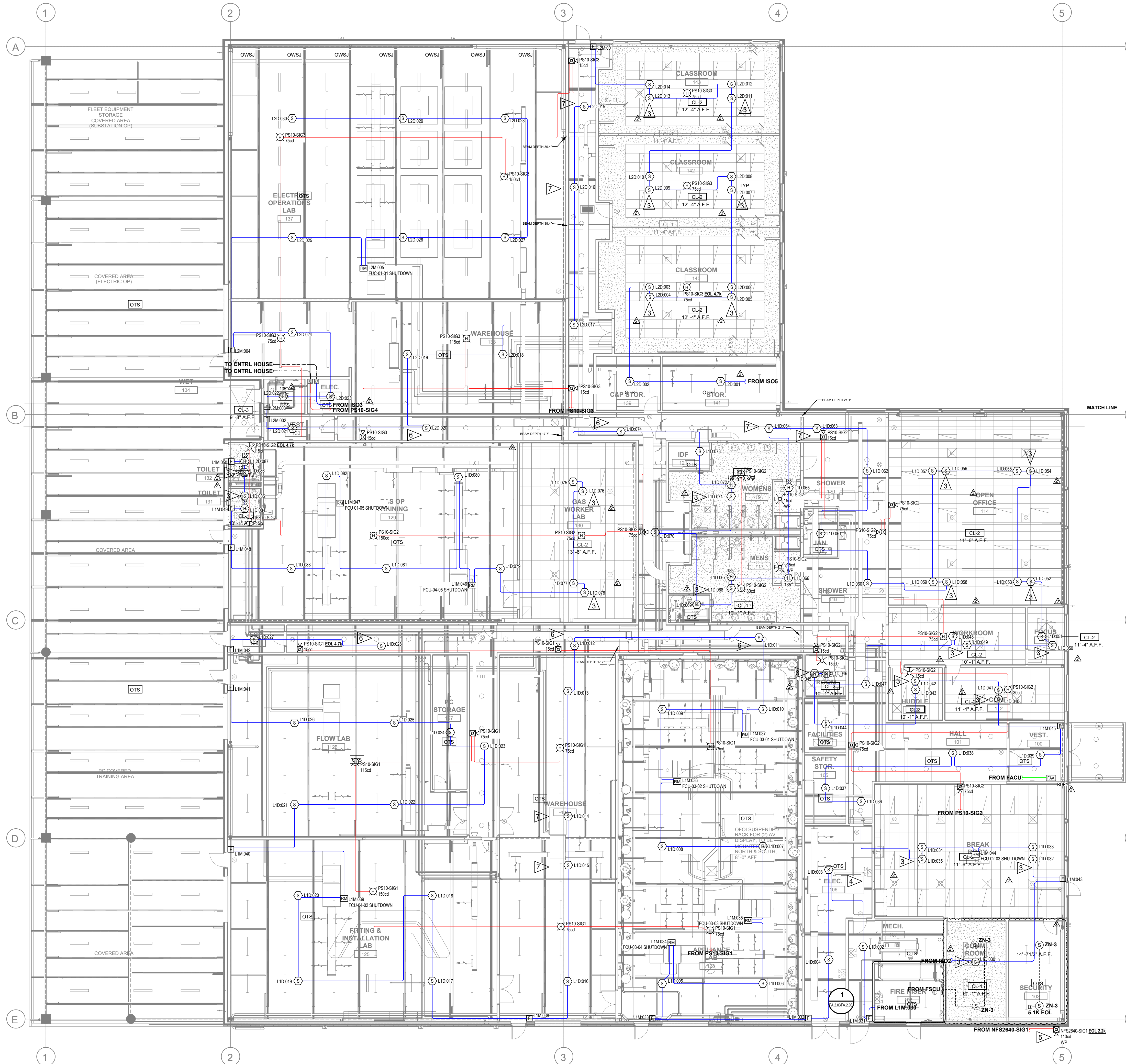
FA.2.01

Cable/Circuit Report

Source	Circuit	Circuit Type	Circuit Abbr	Wiring Style	Symbol	Type	Description	Gauge	Length
640	RDP BUS	Power/Serial	P	Class B		Fire Alarm	18/4 SOL JKT FPLR 1M RL RED	#18	130'-0"
HPF-PS10	SIG	Notification	V	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED	#14	200'-0"
640	SLC	Signaling line	U	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	4000'-0"
640/FSCU	IDC	Indicating	Z	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	300'-0"
HPF-PS10	SIG	Notification	VD	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#14	250'-0"
640	SLC	Signaling line	UD	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#18	250'-0"
TEST SWITCH	IDC	Indicating	K	Class B		Fire Alarm	18/6 SOL JKT FPLR 1M RL RED	#18	100'-0"

FLAG NOTES:

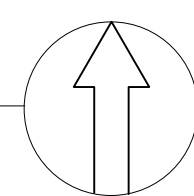
- PULL STATION SIGN: IT IS THE RESPONSIBILITY OF ANYONE PLACING THIS FIRE ALARM SYSTEM INTO TEST TO INFORM THE MONITORING STATION TO NOT PLACE THE FACU PULL STATION INTO TEST. THIS POINT MUST STAY ACTIVE.
- LOCATE RELAY MODULE WITHIN 3'-0" OF INTERFACE EQUIPMENT. OTHERS TO PROVIDE ACCESS TO EQUIPMENT FOR INSPECTION TESTING & MAINTENANCE.
- SMOKE DETECTOR TO BE INSTALLED IN CONCEALED COMBUSTIBLE SPACES IN ACCORDANCE WITH MUNICIPAL AND NFPA 72 REQUIREMENTS FOR TOTAL COVERAGE. SMOKE DETECTION IS BEING PROVIDED IN LIEU OF HEAT DETECTORS AT THE EXPRESS DIRECTION OF THE AHJ.
- DEDICATED CIRCUIT BREAKER FOR FIRE ALARM SYSTEM PROVIDED BY OTHERS & LOCATED IN ELECTRICAL ROOM.
- LOCATION OF EXTERIOR HORN STROBE TO BE APPROVED BY AHJ. EXTERIOR HORN STROBE ACTIVATED BY WATER FLOW SWITCH & NON-RESETTABLE.
- BEAM DEPTHS IN CORRIDOR ARE LESS THAN 10% OF CEILING HEIGHT. SMOOTH CEILING SPACING ALLOWED.
- BEAM DEPTH EXCEEDS 10% OF CEILING HEIGHT. A DETECTOR MUST BE INSTALLED IN BEAM POCKETS.
- MONITOR MODULE FOR PIV IN RISER ROOM. UNDERGROUND CONDUIT AND DIRECT BURIAL WIRE TO SWITCH BY OTHERS.



MATCH LINE

FLOOR PLAN - BUILDING

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



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SYSTEM TYPE
 FIRE ALARM

PROJECT INFORMATION
 325 TODD ROAD NW
 PUYALLUP, WA 98371

PROJECT DESCRIPTION
 PSE OPERATIONAL TRAINING CENTER

DRAWING SIZE: E1 SIZE 30"x42"
 DRAWN BY: MATT WATT

DATE DRAWN: 10/11/2024
 REV DATE: 04/12/2025 M.W.
 BUSINESS LICENSE #
 SECURSN790NE
 ELECTRICAL LICENSE #
 SECURSN954IG
 UL IDENTIFICATION #
 1237799-000

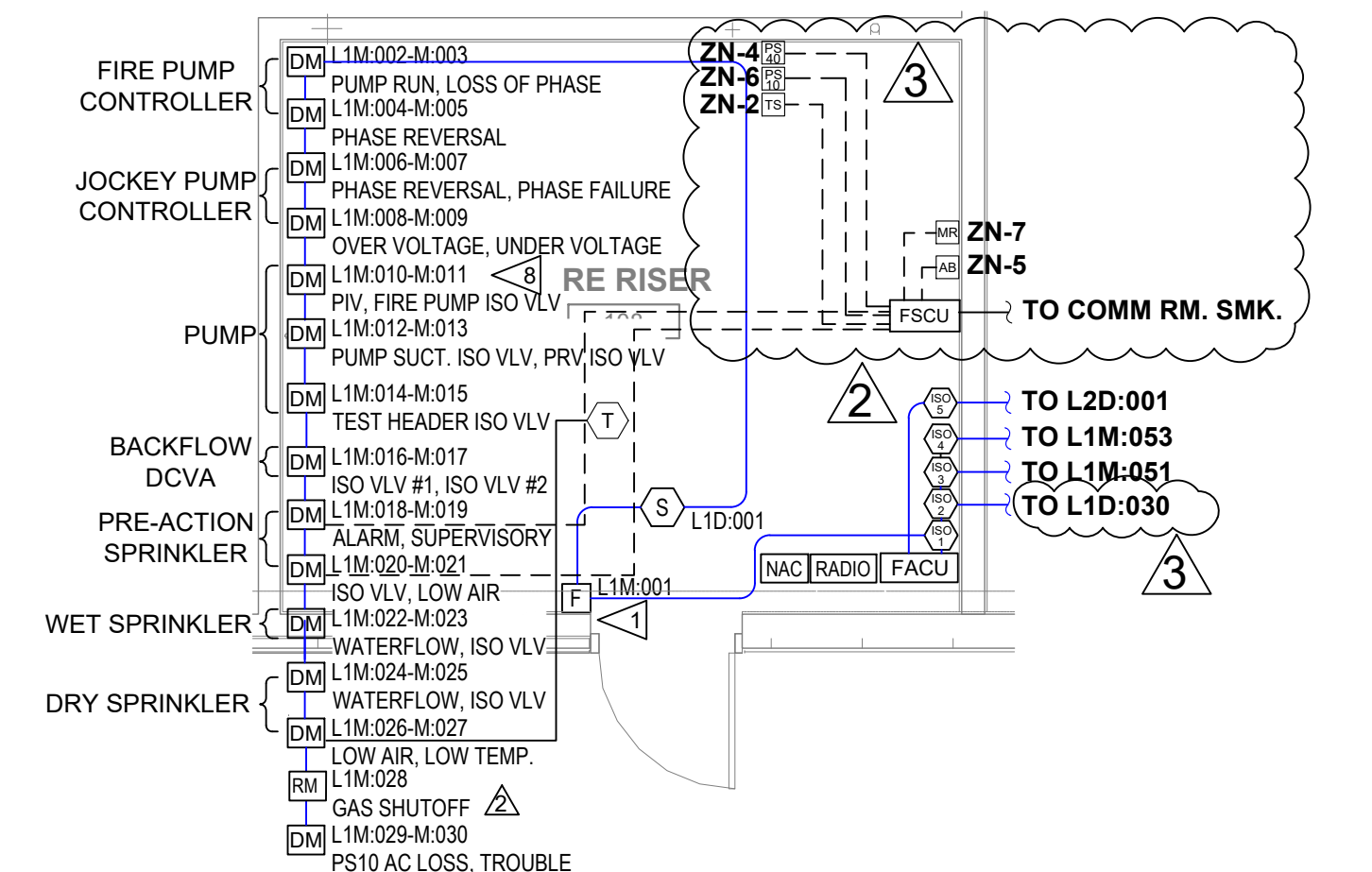
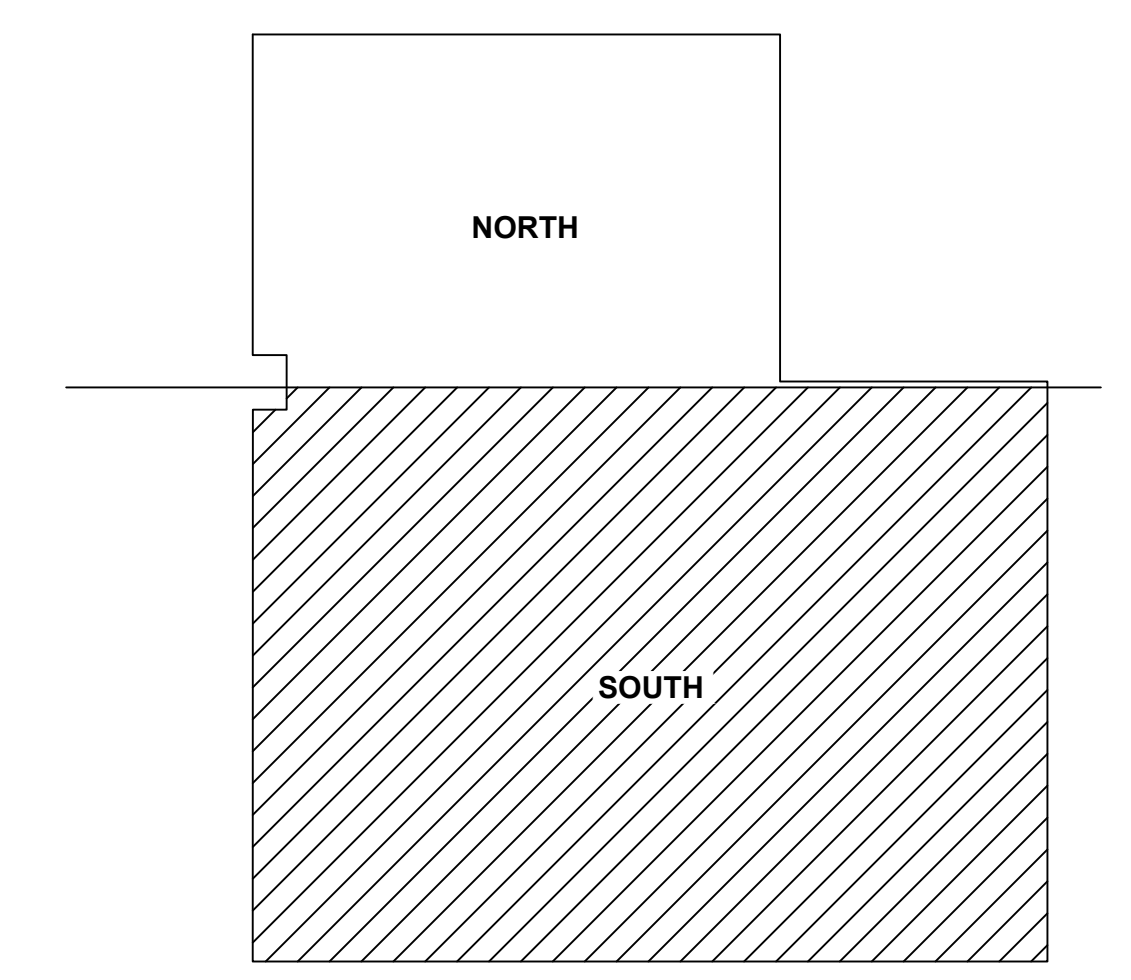
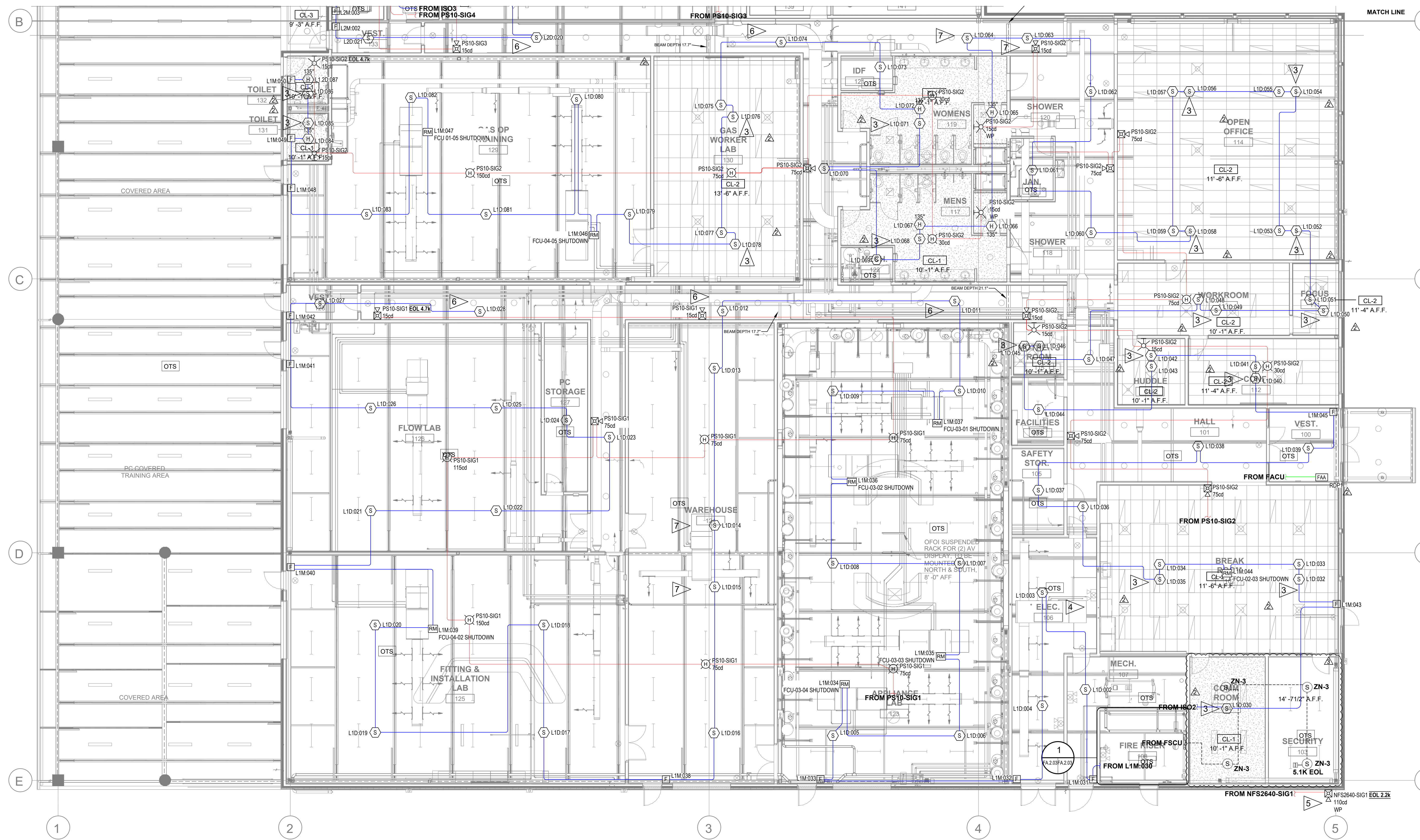
FA.2.02

Cable/Circuit Report

Source	Circuit	Circuit Type	Circuit Abbr	Wiring Style	Symbol	Type	Description	Gauge	Length
640	RDP BUS	Power/Serial	P	Class B		Fire Alarm	18/4 SOL JKT FPLR 1M RL RED	#18	130'-0"
HPF-PS10	SIG	Notification	V	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED	#14	200'-0"
640	SLC	Signaling line	U	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	4000'-0"
640/FSCU	IDC	Indicating	Z	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	300'-0"
HPF-PS10	SIG	Notification	VD	Class B		Fire Alarm	14/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#14	250'-0"
640	SLC	Signaling line	UD	Class B		Fire Alarm	18/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#18	250'-0"
TEST SWITCH	IDC	Indicating	K	Class B		Fire Alarm	18/6 SOL JKT FPLR 1M RL RED	#18	100'-0"

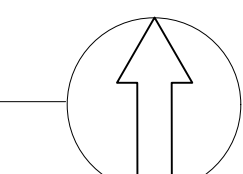
FLAG NOTES:

- PULL STATION SIGN: "IT IS THE RESPONSIBILITY OF ANYONE PLACING THIS FIRE ALARM SYSTEM INTO TEST TO INFORM THE MONITORING STATION TO NOT PLACE THE FACU PULL STATION INTO TEST. THIS POINT MUST STAY ACTIVE."
- LOCATE RELAY MODULE WITHIN 3'-0" OF INTERFACE EQUIPMENT. OTHERS TO PROVIDE ACCESS TO EQUIPMENT FOR INSPECTION TESTING & MAINTENANCE.
- SMOKE DETECTOR TO BE INSTALLED IN CONCEALED COMBUSTIBLE SPACES IN ACCORDANCE WITH MUNICIPAL AND NFPA 72 REQUIREMENTS FOR TOTAL COVERAGE. SMOKE DETECTION IS BEING PROVIDED IN LIEU OF HEAT DETECTORS AT THE EXPRESS DIRECTION OF THE AHJ.
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- MONITOR MODULE FOR PIV IN RISER ROOM. UNDERGROUND CONDUIT AND DIRECT BURIAL WIRE TO SWITCH BY OTHERS.



FLOOR PLAN - SOUTH

SCALE: 1/8" = 1'-0"

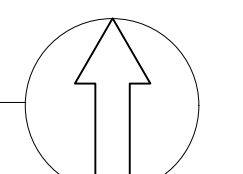


KEY PLAN

SCALE: NTS

FIRE RISER 106 ENLARGED

SCALE: 1/4" = 1'-0"



10.11.24
12.04.24
12.19.24
04.12.25

DRAWING FOR PERMIT SUBMITTAL
CHANGES PER ENGINEERS REVIEW
REVISIONS PER INTERNAL REVIEW & AHJ COMMENTS
CHANGES PER ADDITION OF FIRE ACTION RELEASING PANEL AND ZONE DETECTION

DATE

SYM DESCRIPTION

SECURITY SOLUTIONS

1619 N. STATE ST
BELLINGHAM WA 98225
t. 360.734.4940
f. 360.647.9540

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building Planning
Engineering Public Works
Fire Traffic

DRAWING REVIEWED BY: CHRIS RUSSELL
NICET CERTIFICATION NO. 120520
FIRE ALARM SYSTEMS - LEVEL III
CERTIFICATION EXPIRES: AUGUST 1, 2025

SYSTEM TYPE
FIRE ALARM

PROJECT INFORMATION
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PUYALLUP, WA 98371**

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PSE OPERATIONAL TRAINING CENTER

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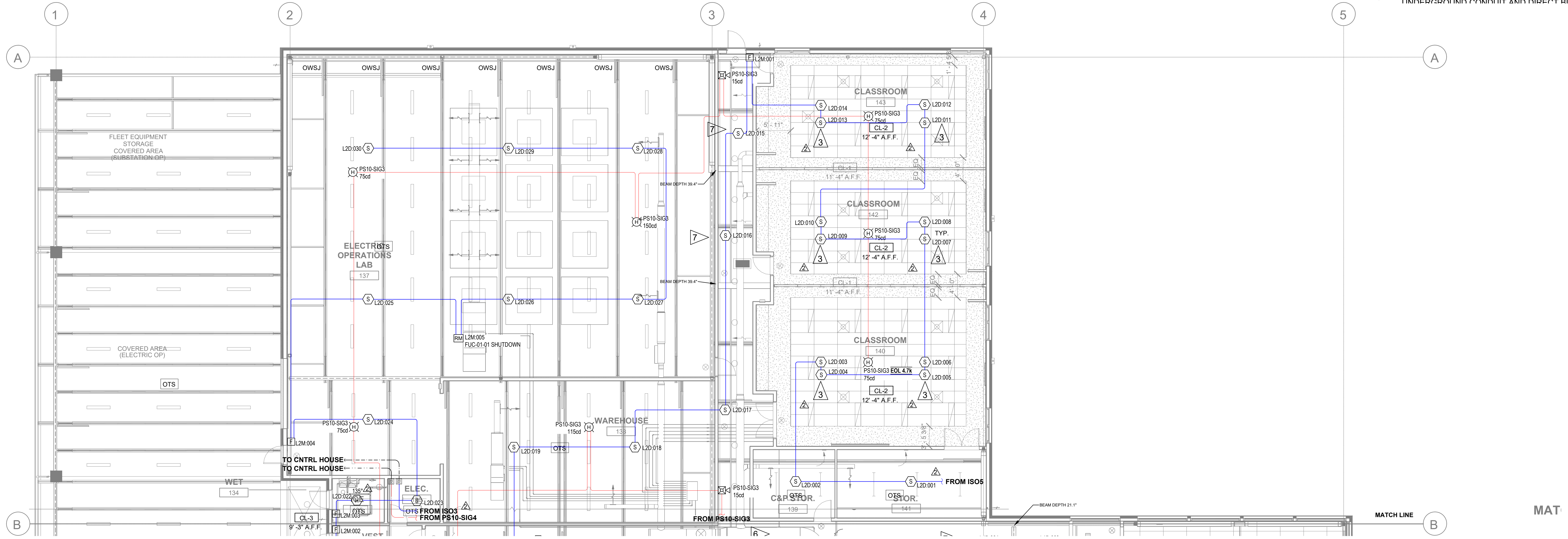
FA.2.03

Cable/Circuit Report

Source	Circuit	Circuit Type	Circuit Abbr	Wiring Style	Symbol	Type	Description	Gauge	Length
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640/FSCU	IDC	Indicating	Z	Class B	---	Fire Alarm	18/2 SOL JKT FPLR 1M RL RED	#18	300'-0
HPF-PS10	SIG	Notification	VD	Class B	---	Fire Alarm	14/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#14	250'-0
640	SLC	Signaling line	UD	Class B	---	Fire Alarm	18/2 SOL JKT FPLR 1M RL RED, WET/ DIRECT BURIAL	#18	250'-0
TEST SWITCH	IDC	Indicating	K	Class B	---	Fire Alarm	18/6 SOL JKT FPLR 1M RL RED	#18	100'-0

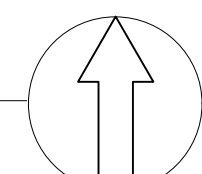
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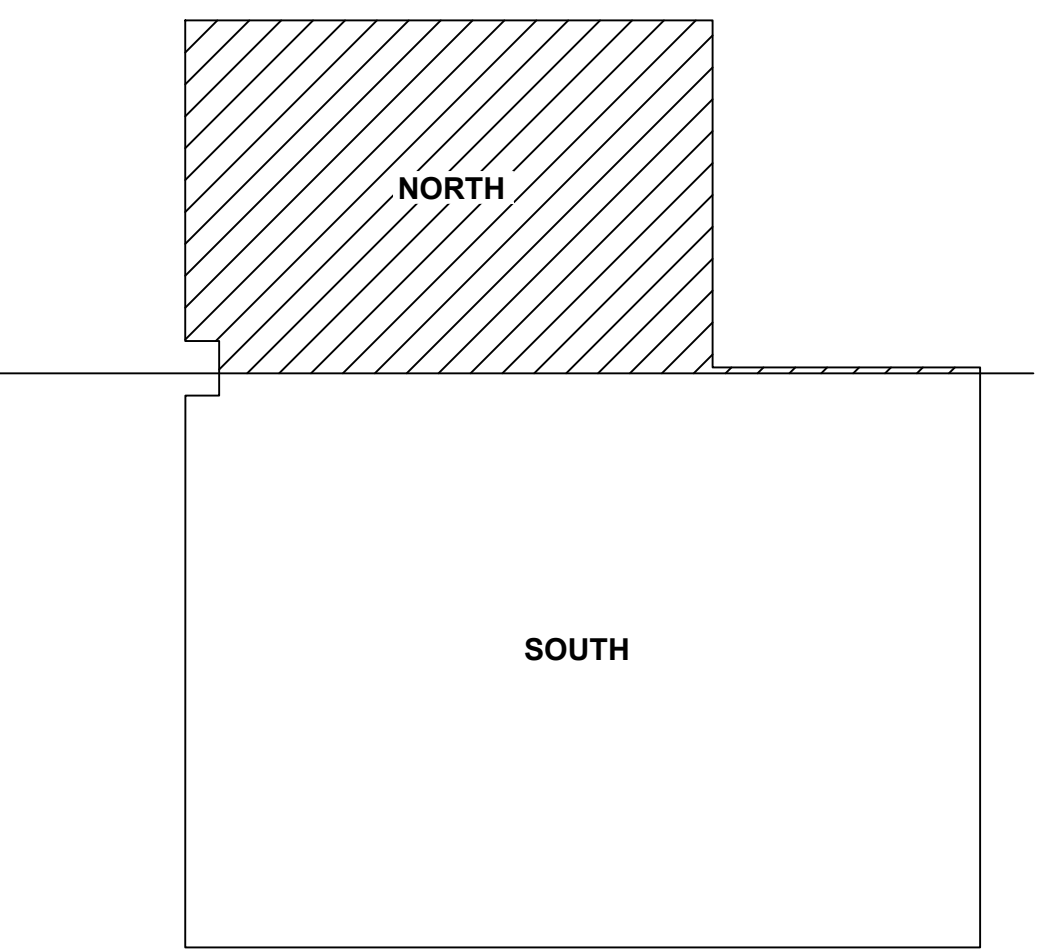
FLOOR PLAN - NORTH

SCALE: 1/8" = 1'-0"



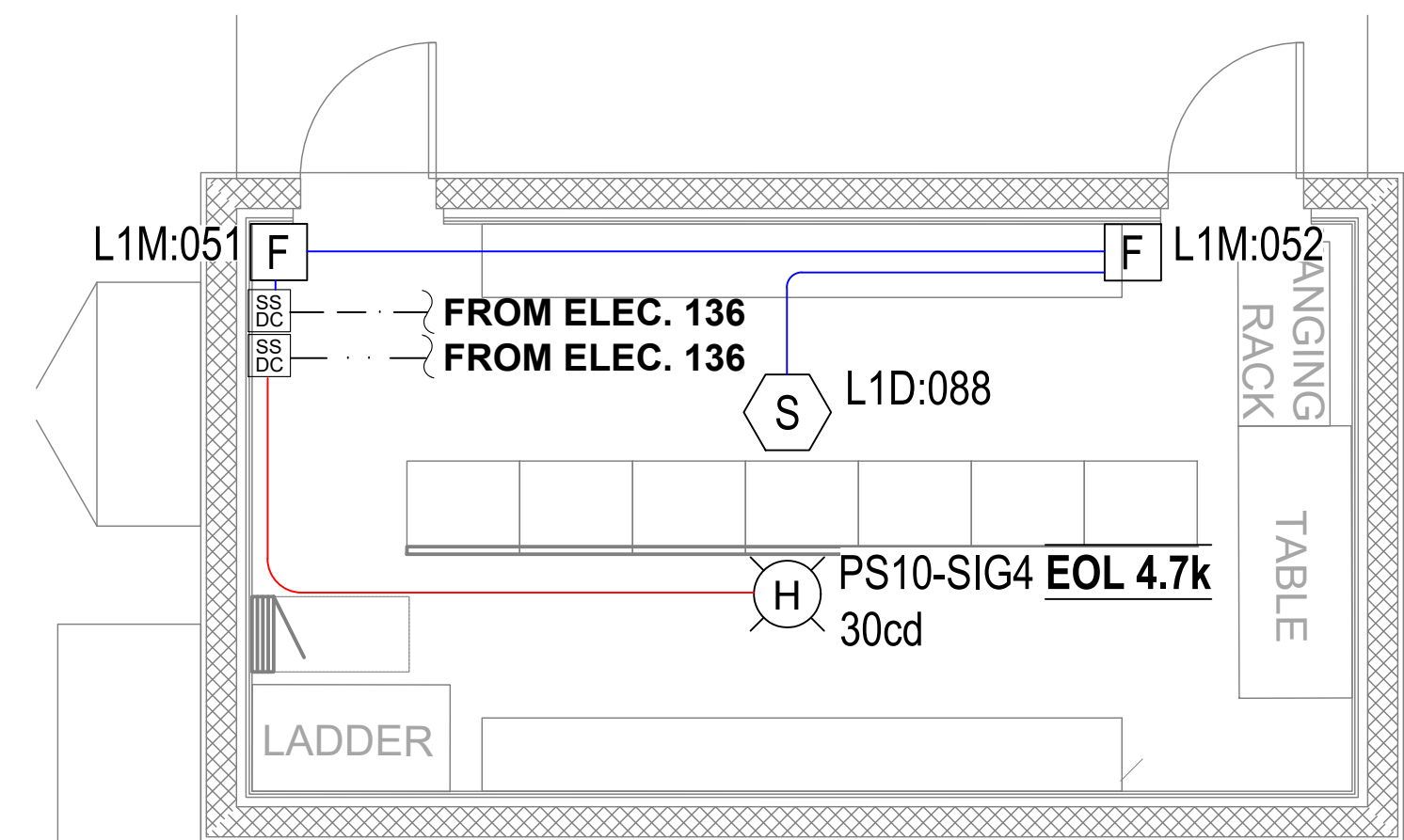
KEY PLAN

SCALE: NTS



CONTROL BUILDING ENLARGED

SCALE: 1/4" = 1'-0"



DATE	DESCRIPTION
10.11.24	DRAWING FOR PERMIT SUBMITTAL
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04.12.25	CHANGES PER ADDITION OF PRE ACTION RELEASING PANEL AND ZONE DETECTION

SECURITY SOLUTIONS

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DRAWING REVIEWED BY: CHRIS RUSSELL
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 FIRE ALARM SYSTEMS - LEVEL III
 CERTIFICATION EXPIRES: AUGUST 1, 2025

FIRE ALARM

PROJECT INFORMATION
**325 TODD ROAD NW
 PUYALLUP, WA 98371**

PROJECT DESCRIPTION
PSE OPERATIONAL TRAINING CENTER

SYSTEM TYPE
FIRE ALARM

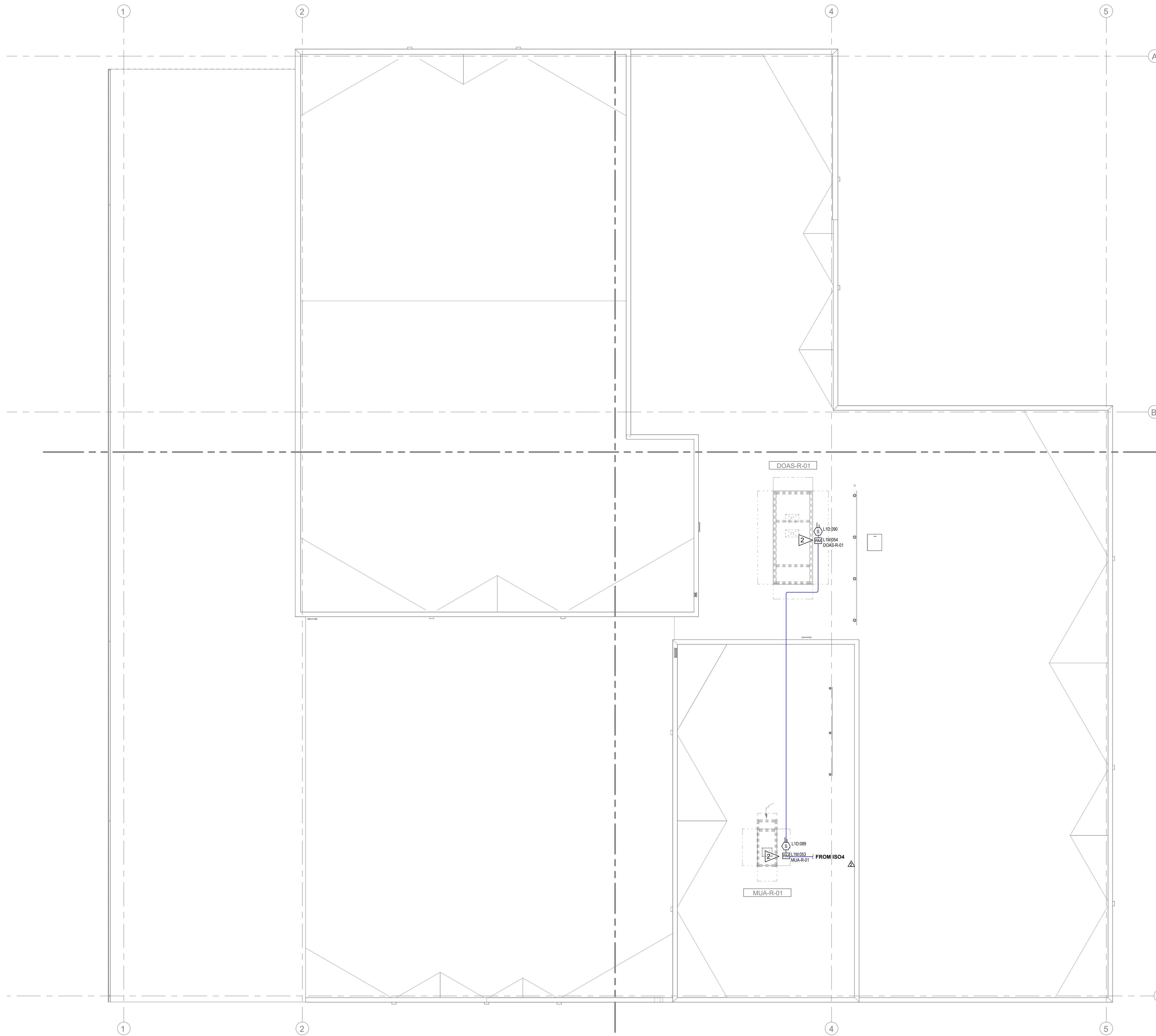
DRAWING SIZE: E1 SIZE 30"x42"
 DRAWN BY: MATT WATT

DATE DRAWN: 10/11/2024
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 BUSINESS LICENSE #
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 UL IDENTIFICATION #
 1237799-000

FA.2.04

Cable/Circuit Report

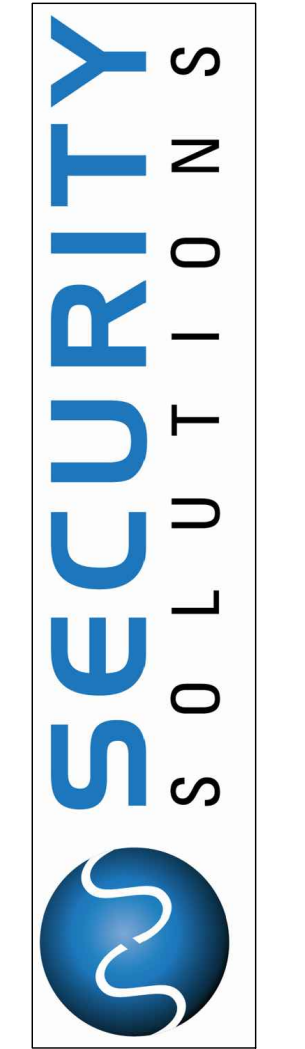
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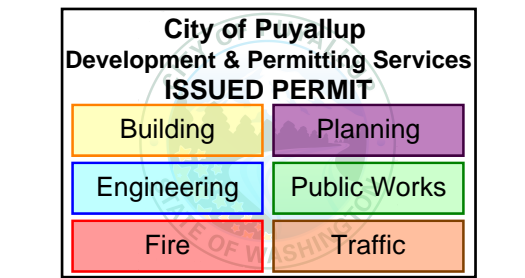
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DATE	SYMBOL	DESCRIPTION
10.11.24	0	DRAWING FOR PERMIT SUBMITTAL
12.04.24	1	CHANGES PER ENGINEERS REVIEW
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DRAWING REVIEWED BY: CHRIS RUSSELL
 NICET CERTIFICATION NO. 120520
 FIRE ALARM SYSTEMS - LEVEL III
 CERTIFICATION EXPIRES: AUGUST 1, 2025

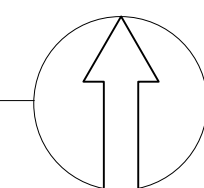
SYSTEM TYPE
FIRE ALARM
 PROJECT INFORMATION
325 TODD ROAD NW
PUYALLUP, WA 98371
 PROJECT DESCRIPTION
PSE OPERATIONAL TRAINING CENTER

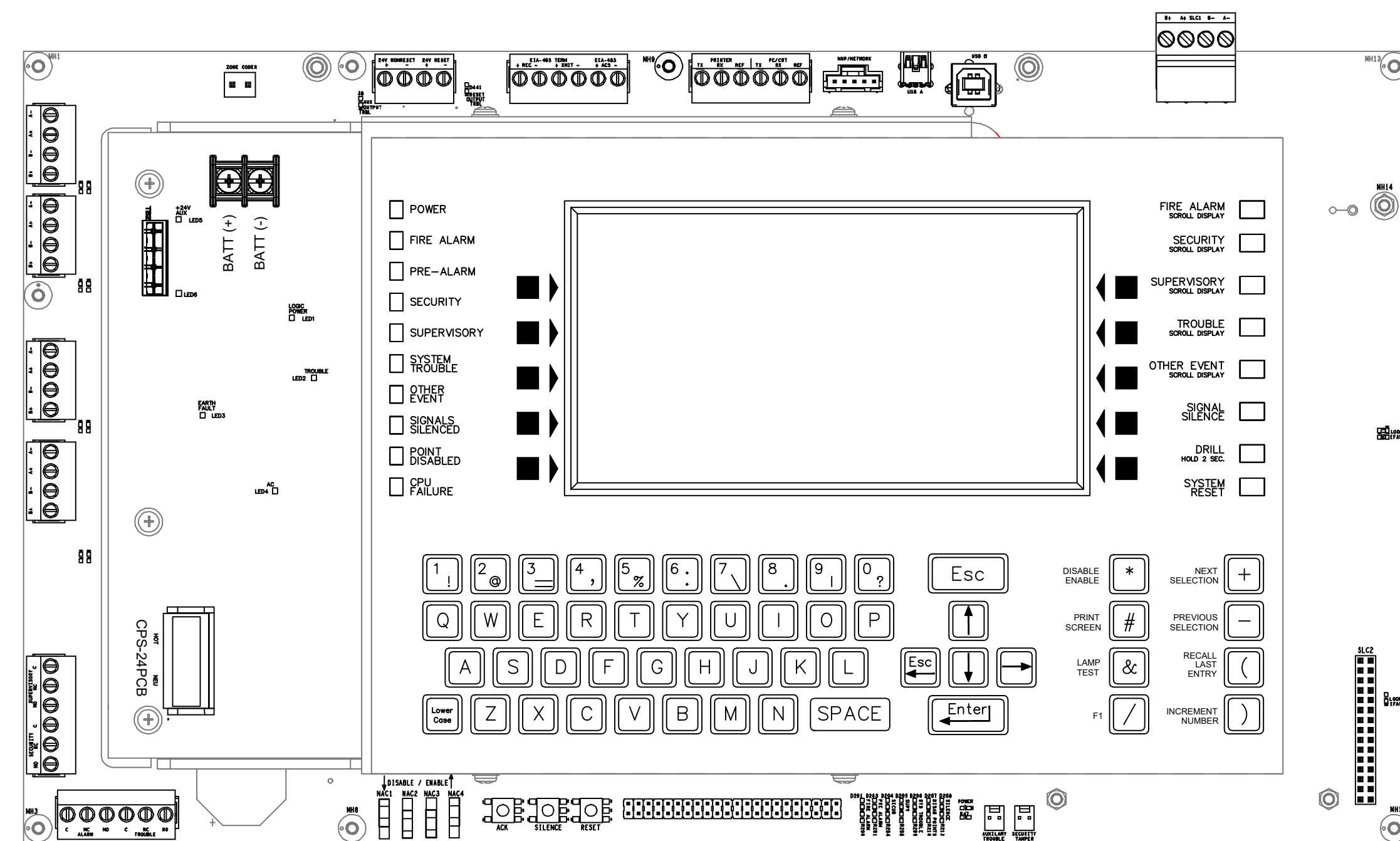
DRAWING SIZE: E1 SIZE 30"x42"
 DRAWN BY: MATT WATT
 DATE DRAWN: 10/11/2024
 REV DATE: 04/12/2025 M.W.
 BUSINESS LICENSE # SECURSN790NE
 ELECTRICAL LICENSE # SECURSN954JG
 UL IDENTIFICATION # 1237799-000

FA.2.05

FLOOR PLAN - ROOF

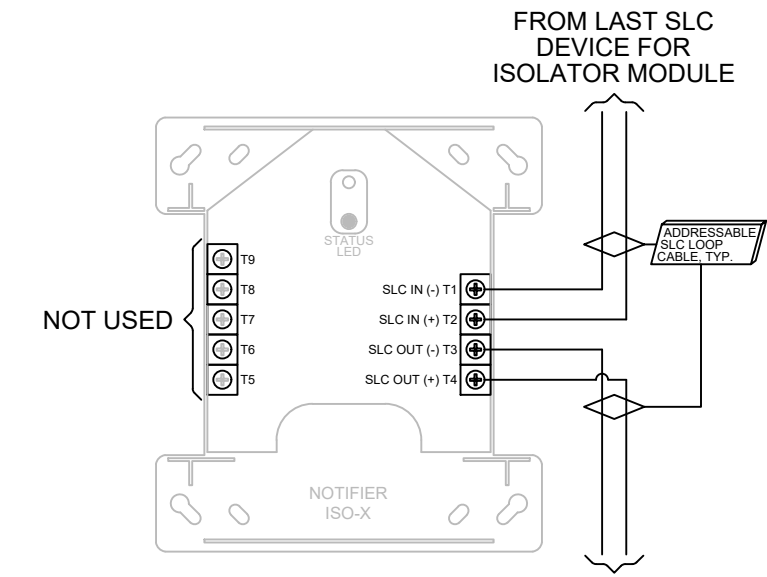
SCALE: 3/32" = 1'-0"





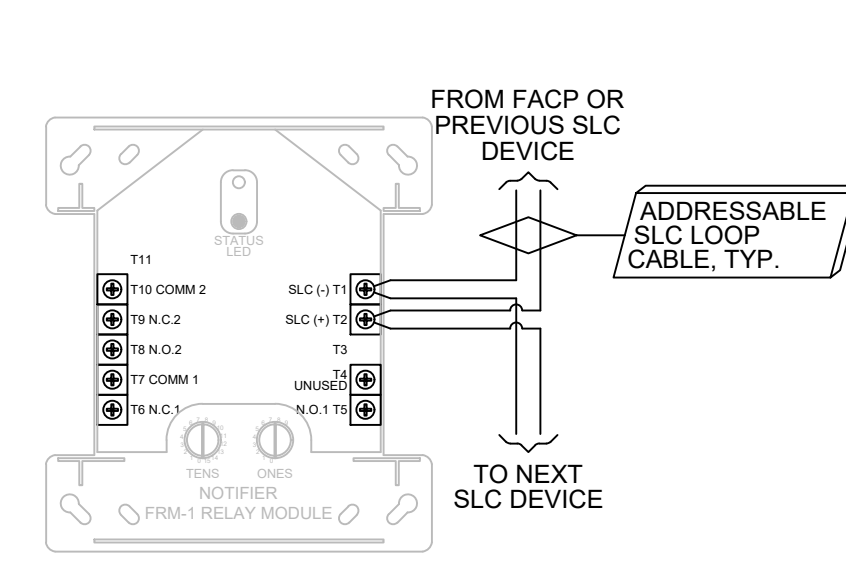
14 NFS2-640 CONTROL PANEL

SCALE: NTS
 NOTES: - NCA-2 NETWORK ANNUNCIATOR SHOWN
 - TOTAL AVAILABLE OUTPUT FOR PANEL @ 0 AMP.
 - SLC SUPPORTS UP TO 318 ADDRESSABLE DEVICES PER LOOP.
 - 159 DETECTORS & 159 MONITOR, CONTROL OR RELAY MODULES.
 - REFER TO BATTERY CALCULATIONS FOR BATTERY SIZE.



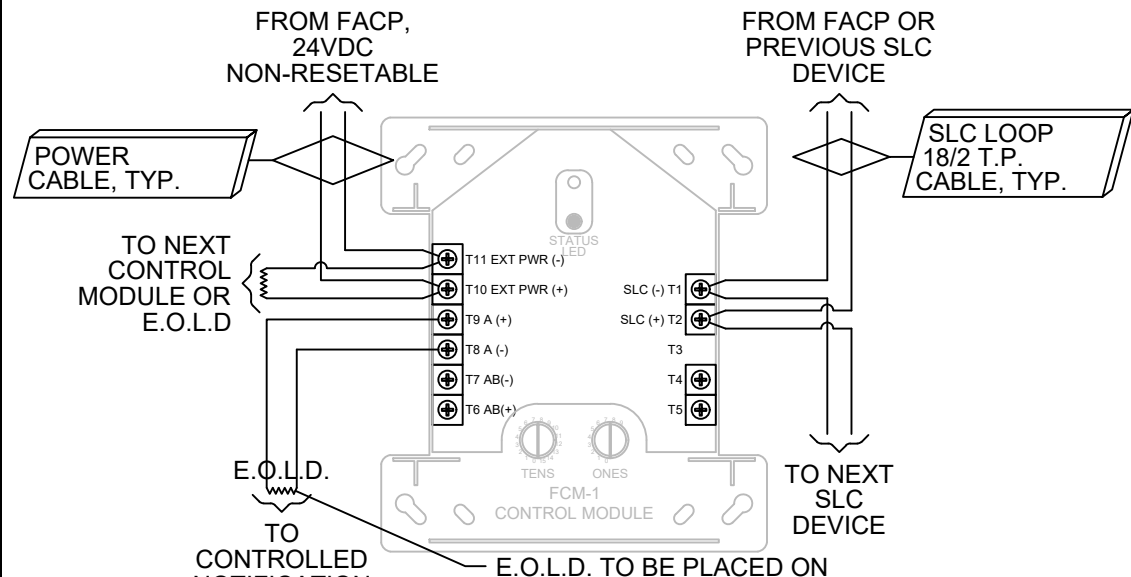
11 ISO-X ISOLATOR MODULE

SCALE: NTS
 NOTES: - CLASS 'A' WIRING SHOWN
 - A MAXIMUM OF 26 DEVICES CAN BE USED BETWEEN ISOLATORS.



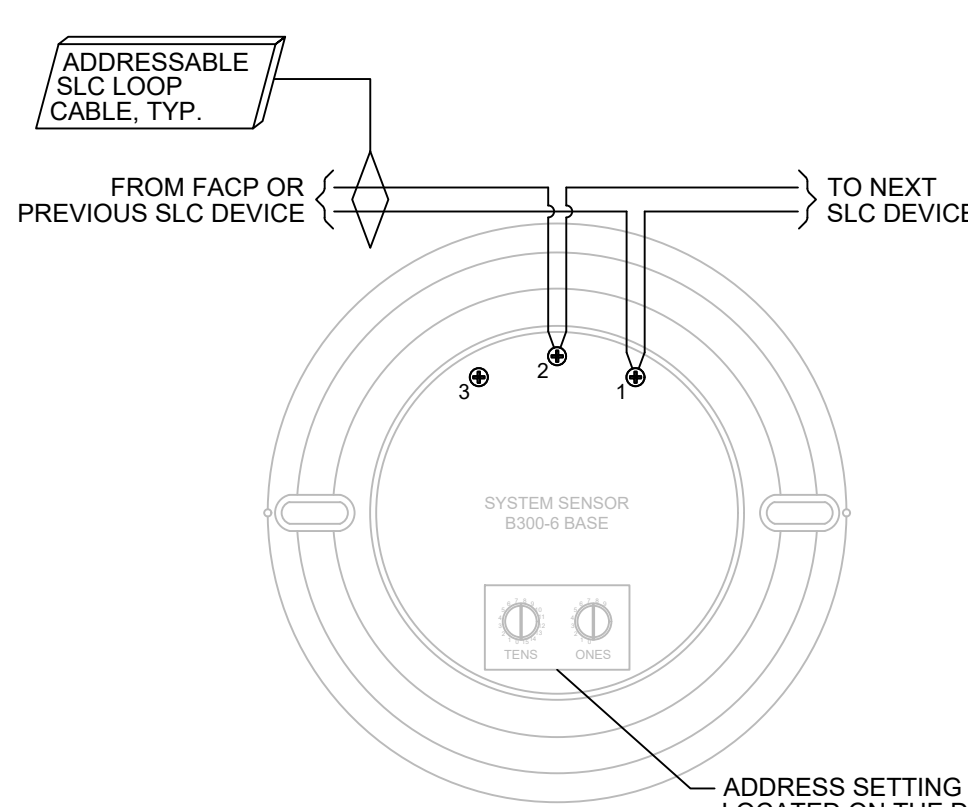
5 FRM-1 RELAY MODULE

SCALE: NTS
 NOTES: - CLASS 'B' WIRING SHOWN
 - REFER TO INSTALLATION INSTRUCTIONS FOR RELAY CONTACT RATINGS



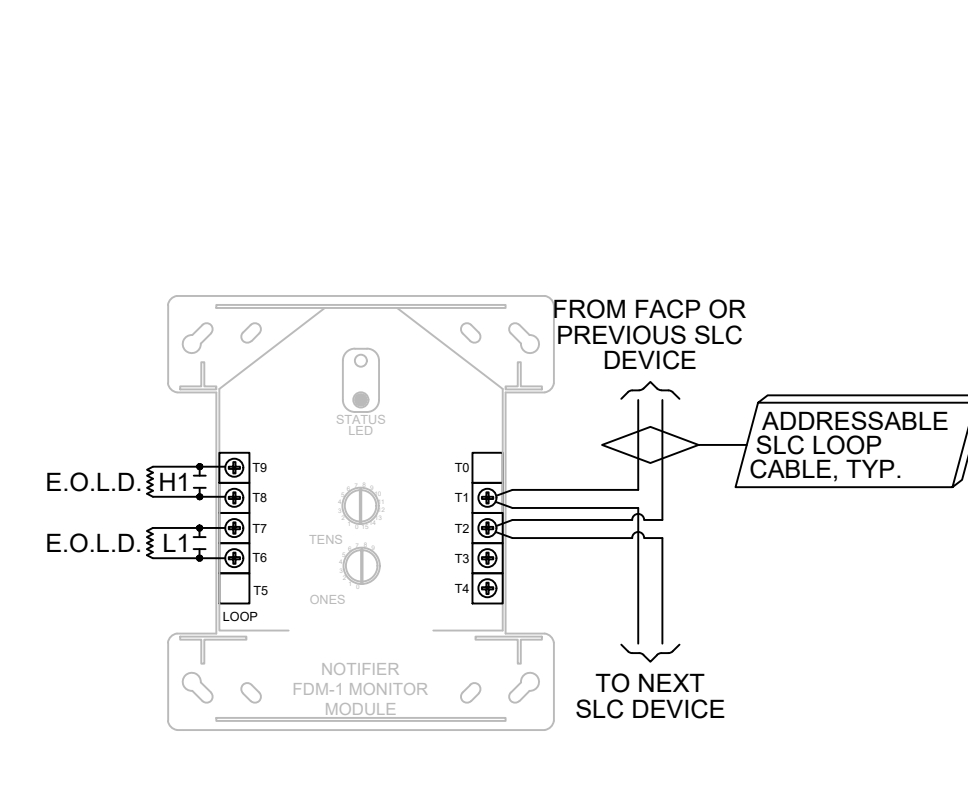
2 FCM-1 CONTROL MODULE

SCALE: NTS
 NOTES: - CLASS 'B' WIRING SHOWN



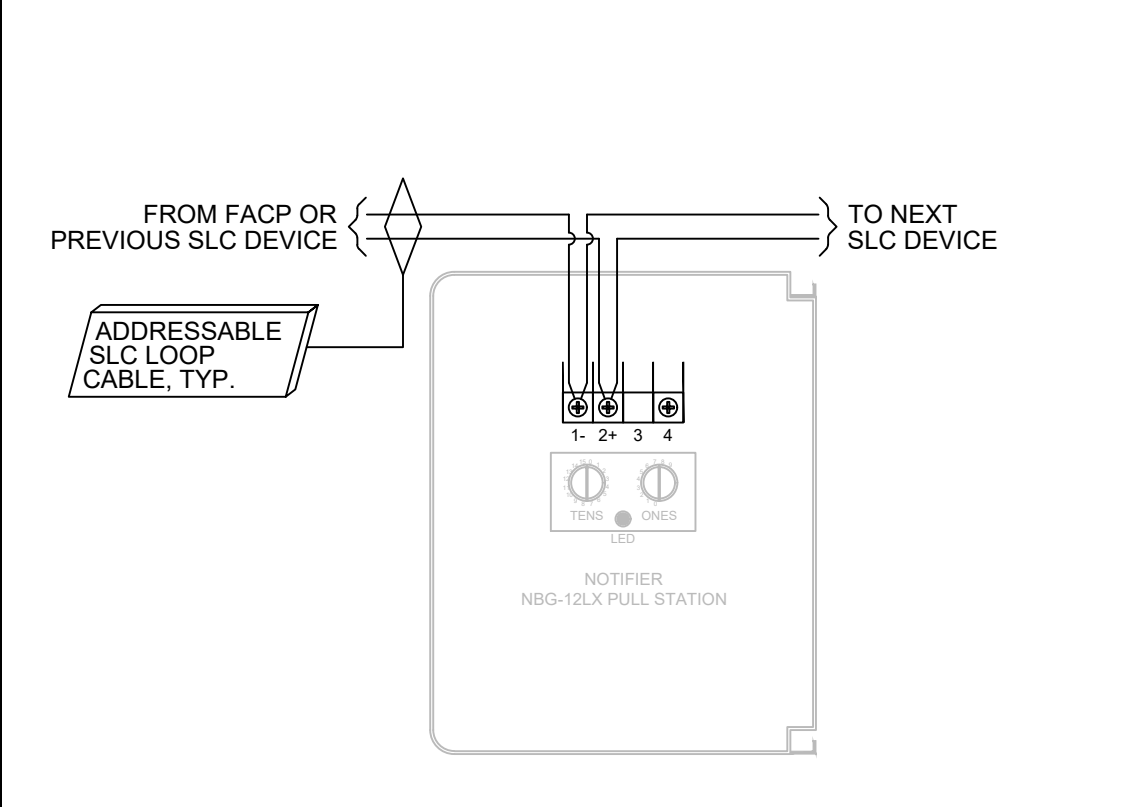
1 B300-6 DETECTOR BASE

SCALE: NTS
 NOTES: - CLASS 'B' WIRING SHOWN
 ADDRESS SETTING IS LOCATED ON THE DETECTOR SHOWN ON BASE FOR REFERENCE ONLY.



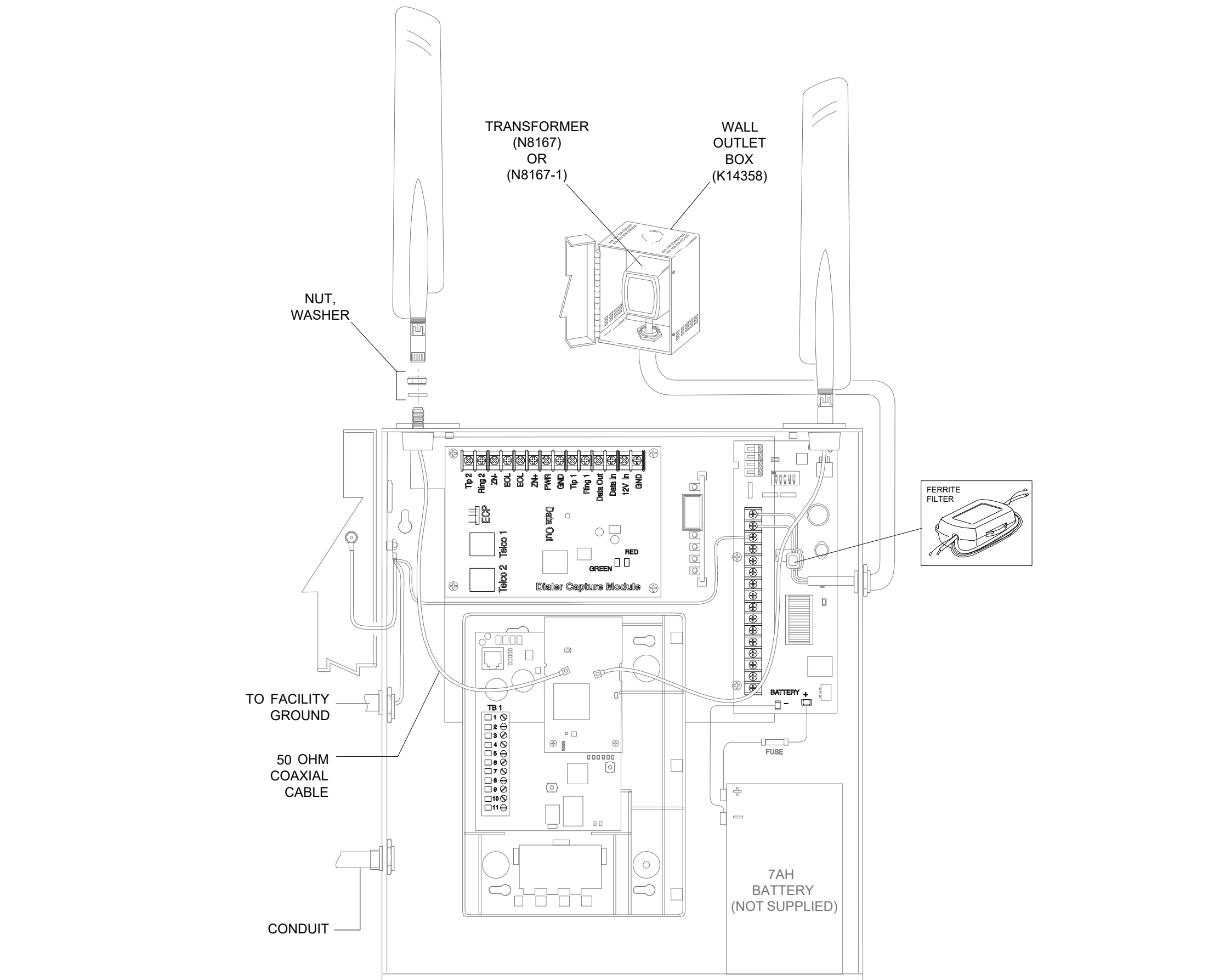
29 FDM-1 DUAL MONITOR MODULE

SCALE: NTS
 NOTES: - CLASS 'B' WIRING SHOWN



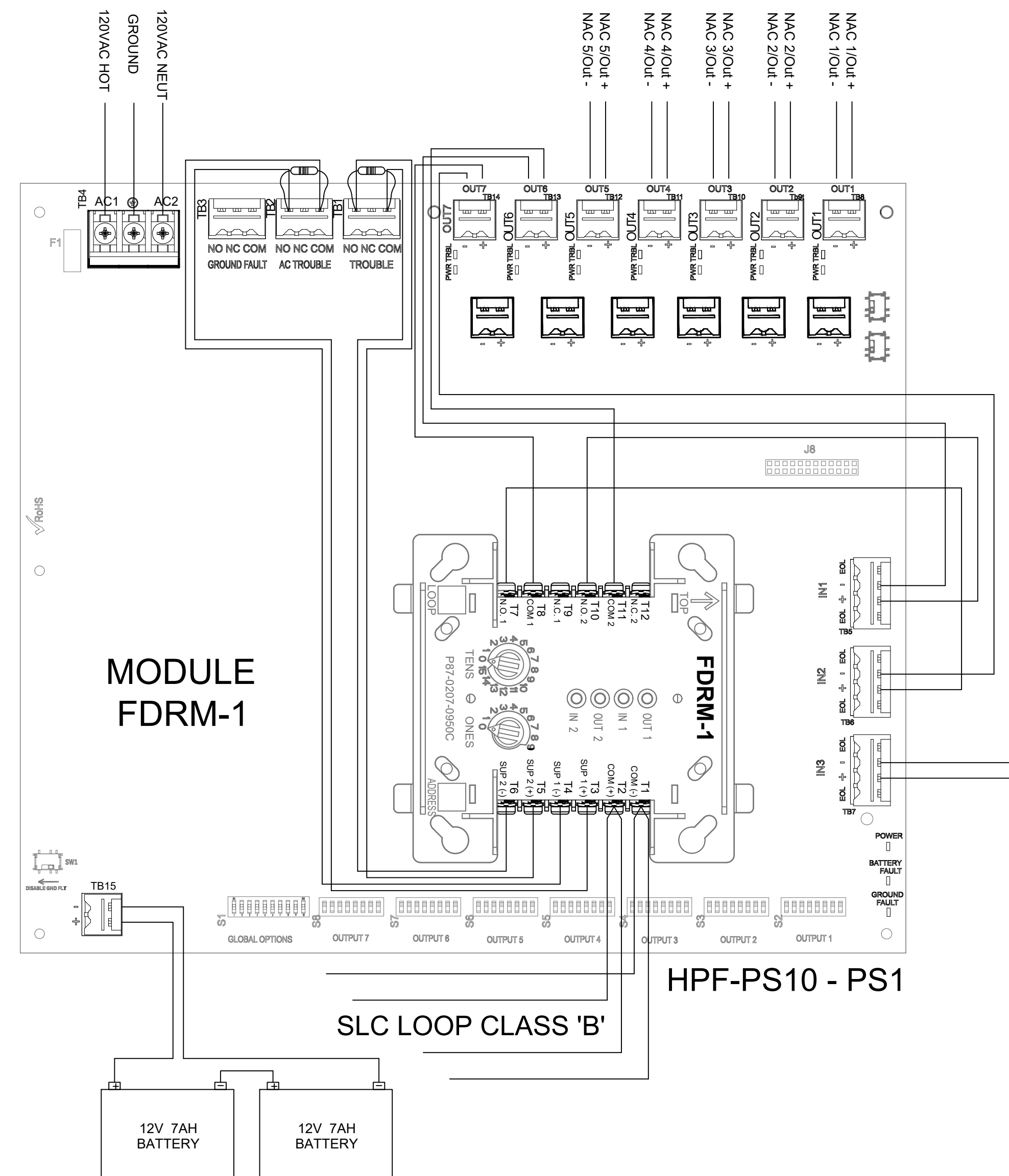
2 NBG-12LX MANUAL PULL STATION

SCALE: NTS
 NOTES: - CLASS 'B' WIRING SHOWN



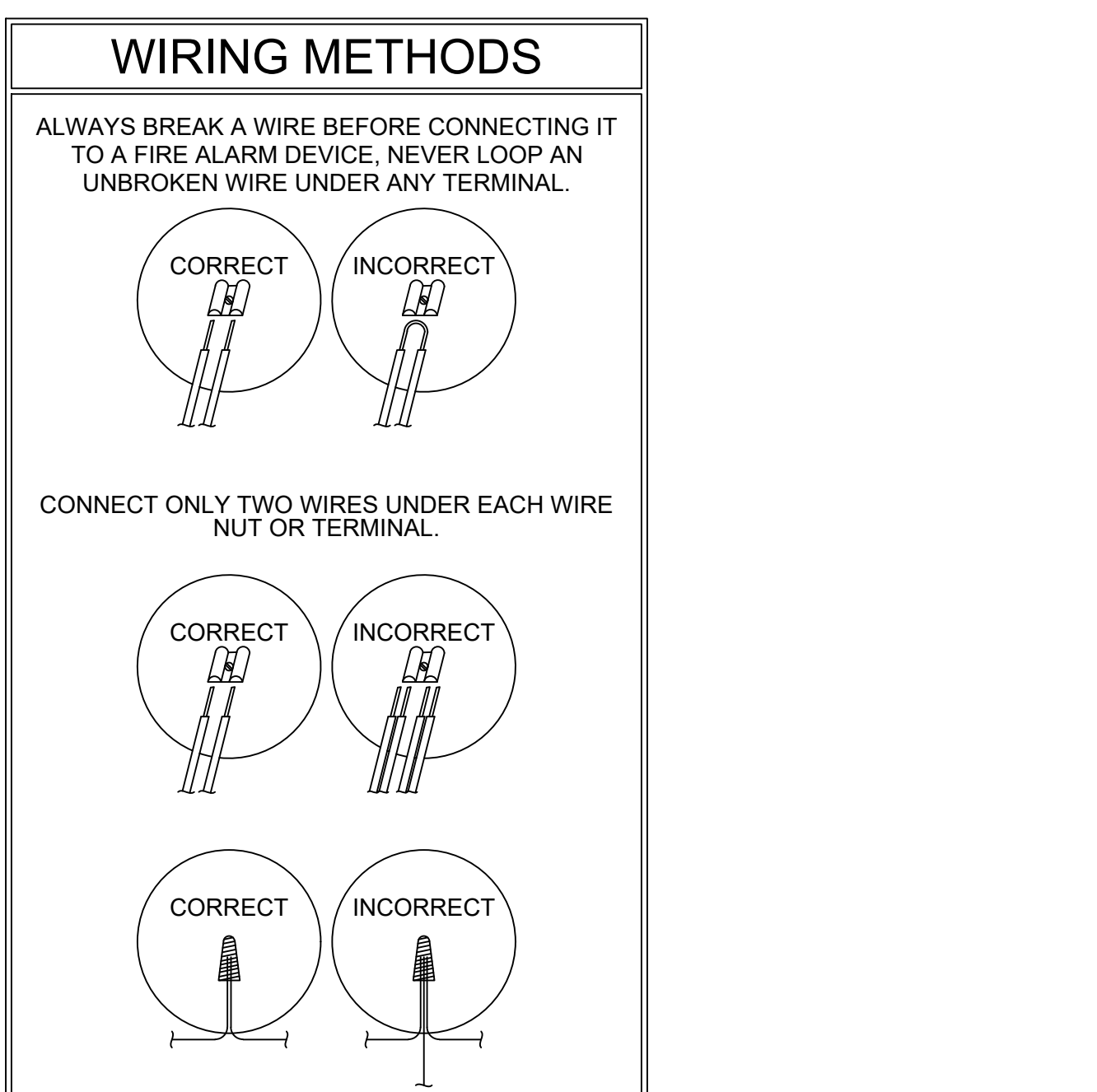
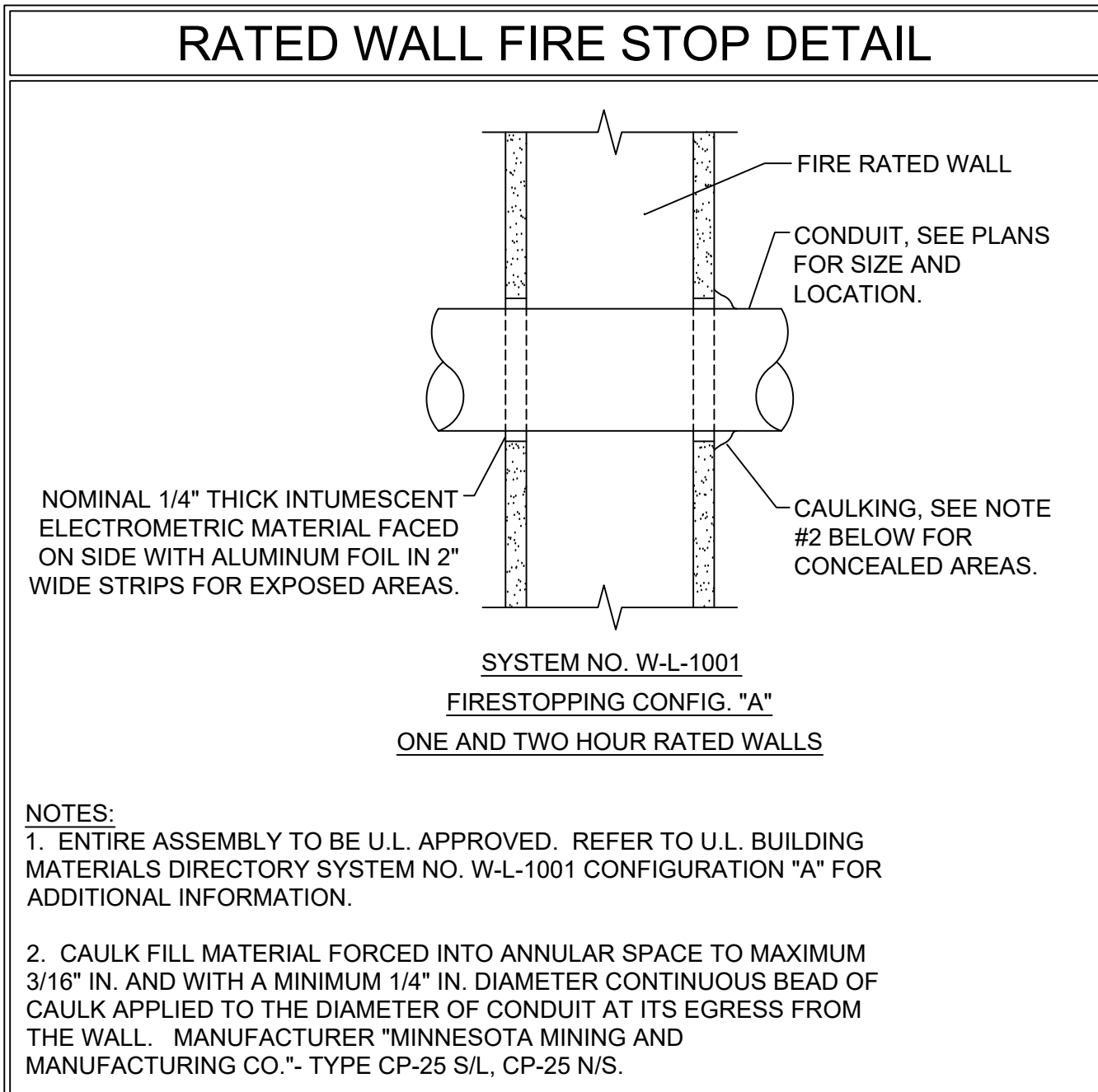
28 HWF2V FIRE COMMUNICATOR

SCALE: NTS
 NOTES: - PRE-TEST SIGNAL STRENGTH PRIOR TO INSTALLATION TO DETERMINE BEST LOCATION FOR COMMUNICATOR
 - CONNECTIONS SHOWN ARE FOR REFERENCE ONLY. REFER TO INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION.
 - REFER TO INSTALLATION MANUAL FOR BATTERY SIZE.
 - TELCO #1 IS USED TO REPORT EVENTS TO CENTRAL STATION.
 - IF TELCO #1 IS NOT OPERATIONAL TELCO #2 WILL BE USED TO REPORT.
 - TELCO #2 TO TRANSMIT COMMUNICATOR FAULTS TO THE FACP.



1 NOTIFIER HPF-PS10 POWER SUPPLY CLASS 'B' FDRM-1 MODULE

SCALE: NTS
 NOTES: - 10.0 AMPS MAX.
 - 7 NAC CIRCUITS
 - REFER TO BATTERY CALCULATIONS FOR BATTERY SIZES.



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City of Puyallup
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Building Planning
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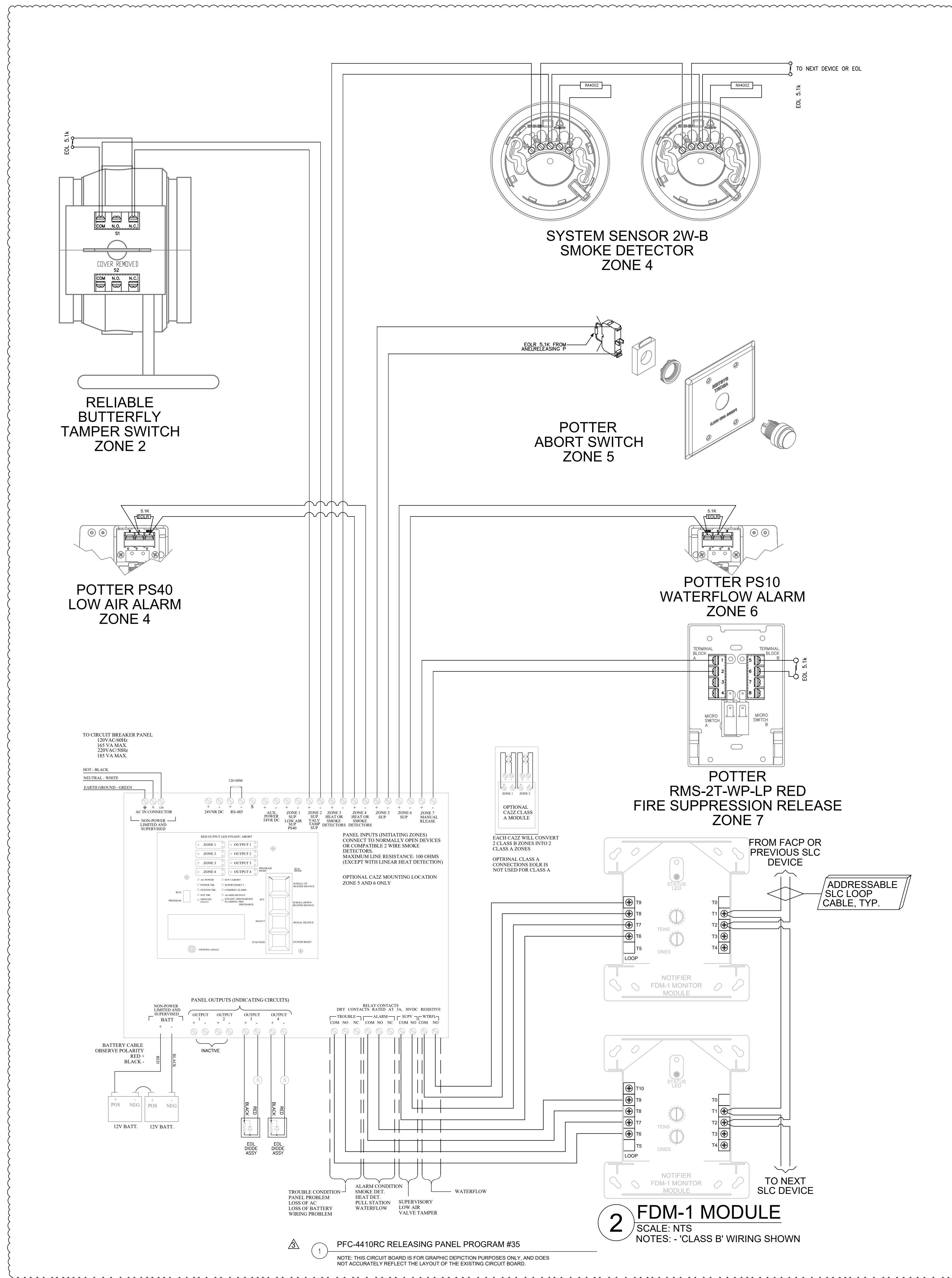
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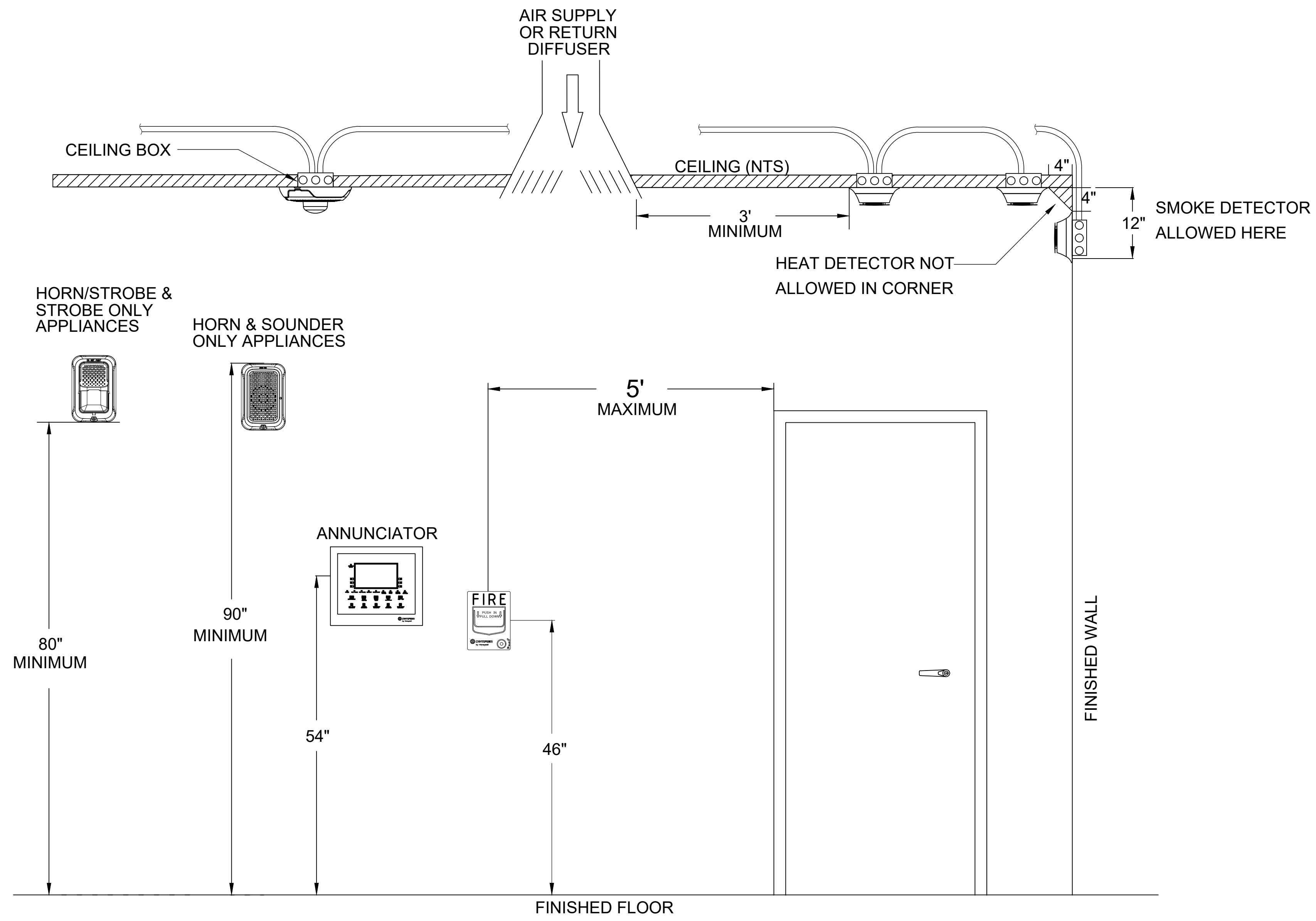
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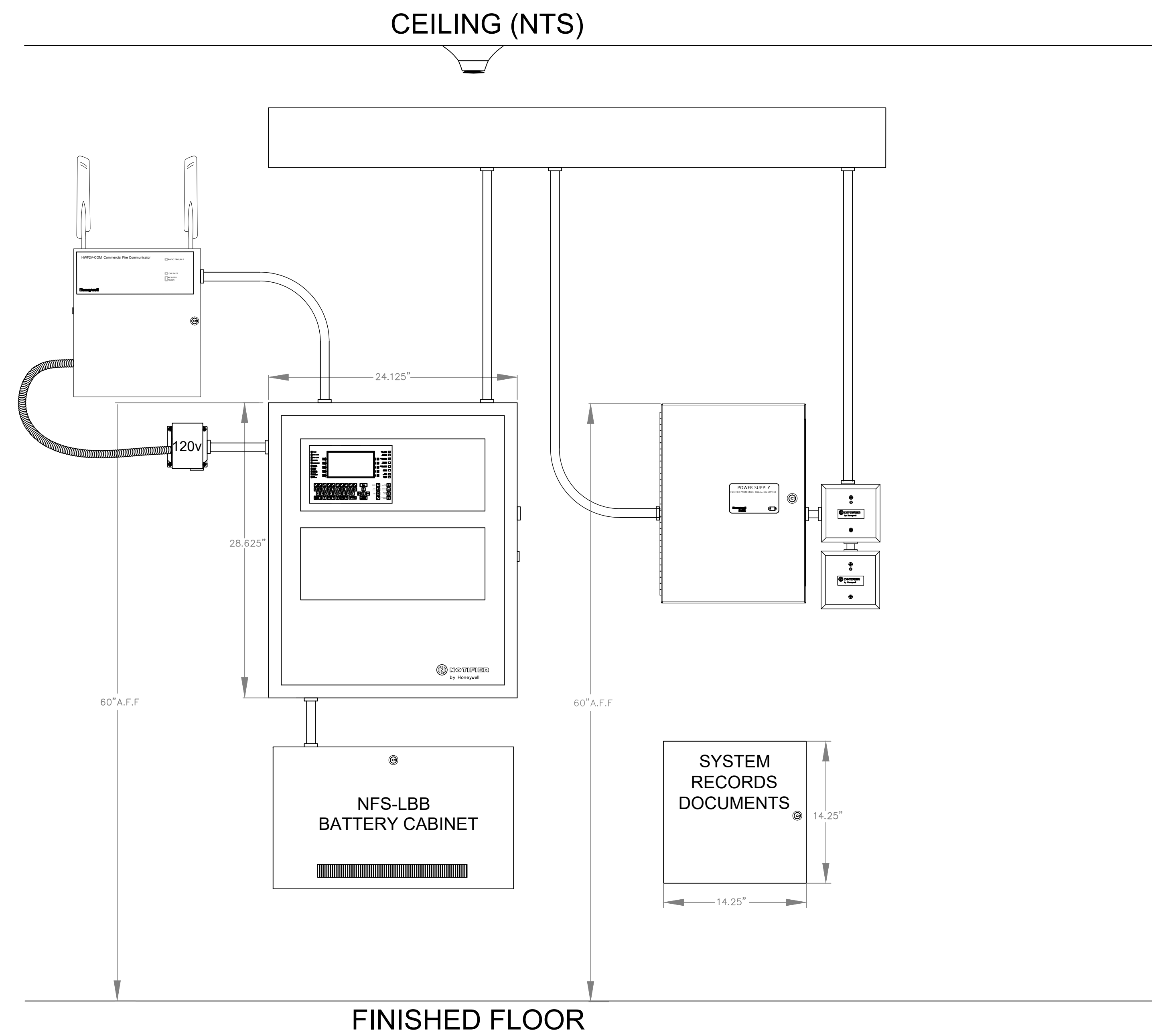
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FA.4.02



1 DEVICE MOUNTING DETAIL (TYP)

SCALE: NTS



2 FACU, PS, ETC., ELEVATION (RISER ROOM)

SCALE: NTS

NOTE: DEVICE AND PANEL ELEVATIONS ARE FOR GRAPHIC PURPOSES ONLY & DO NOT REFLECT ACTUAL TYPES, QUANTITIES, & MOUNTING LOCATIONS OF REQUIRED EQUIPMENT.

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	FA..4.03

PANEL (RPP-PS10) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)											
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT	
								CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)
PS10-SIG1	N/A	0.15800		WP	1	HPF-PS10	TO 1A 10VDC BATTERY CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE	0.000	0.000	0.000	0.000
					1	HPF-PS10	FIRE ALARM POWER SUPPLY MAIN BOARD	0.156	0.156	0.185	0.185
					3	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	0.000	0.000	0.035	0.105
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	0.000	0.000	0.087	0.087
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 115CD	0.000	0.000	0.120	0.120
PS10-SIG2	N/A	0.85200		WP	2	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	0.000	0.000	0.035	0.070
					5	PZWLED	2-WIRE, HORN STROBE, WHITE 75CD	0.000	0.000	0.087	0.435
					3	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 30CD	0.000	0.000	0.038	0.114
					2	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	0.000	0.000	0.087	0.174
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	0.000	0.000	0.189	0.189
PS10-SIG3	N/A	0.16650		WP	2	SRK-P	STROBE, STANDARD CD, RED, OUTDOOR, FLAN 15CD	0.000	0.000	0.066	0.132
					4	SWLED	STROBE, WALL, WHITE 15CD	0.000	0.000	0.018	0.072
					4	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	0.000	0.000	0.035	0.140
					5	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	0.000	0.000	0.087	0.435
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 115CD	0.000	0.000	0.120	0.120
PS10-SIG4	N/A	0.03800		WP	1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	0.000	0.000	0.189	0.189
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 30CD	0.000	0.000	0.038	0.038
							TOTAL STANDBY (A)	0.156	TOTAL ALARM (A)	3.142	
							REQUIRED STANDBY TIME (HOURS)	24	REQUIRED ALARM TIME (MINUTES)	5	
							SECONDARY STANDBY LOAD (A)	0.156	SECONDARY ALARM LOAD (A)	3.142	
							STANDBY AND ALARM SUBTOTAL (AMP HOURS)	3.744	DERATING FACTOR	4.006	
							SECONDARY LOAD REQUIREMENTS (AMP HOURS)	1.200	PROVIDE (2) 12V 7AH BATTERIES	4.807	
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

AUX PWR POINT-TO-POINT REPORT											
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	CIRCUIT SETTINGS		TOTALS	
								STARTING CALCULATION VOLTAGE	MAX. VOLTAGE DROP	VOLTAGE DROP %	DECIBELS
AUX PWR	N/A	0.15800		WP	16	HPF-PS10	TO 1A 10VDC BATTERY CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE	20.400	0.445	2.17%	87.84
					1	HPF-PS10	FIRE ALARM POWER SUPPLY MAIN BOARD	16	0.156	0.91%	99.09
					3	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	16	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	16	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 115CD	16	0.000	0.00%	100.00
AUX PWR	N/A	0.85200		WP	2	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	3	0.000	0.00%	100.00
					5	PZWLED	2-WIRE, HORN STROBE, WHITE 75CD	3	0.000	0.00%	100.00
					3	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 30CD	3	0.000	0.00%	100.00
					2	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	3	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	3	0.000	0.00%	100.00
AUX PWR	N/A	0.03800		WP	2	SRK-P	STROBE, STANDARD CD, RED, OUTDOOR, FLAN 15CD	3	0.000	0.00%	100.00
					4	SWLED	STROBE, WALL, WHITE 15CD	3	0.000	0.00%	100.00
							TOTAL STANDBY (A)	0.156	TOTAL ALARM (A)	3.142	
							REQUIRED STANDBY TIME (HOURS)	24	REQUIRED ALARM TIME (MINUTES)	5	
							SECONDARY STANDBY LOAD (A)	0.156	SECONDARY ALARM LOAD (A)	3.142	
							STANDBY AND ALARM SUBTOTAL (AMP HOURS)	3.744	DERATING FACTOR	4.006	
							SECONDARY LOAD REQUIREMENTS (AMP HOURS)	1.200	PROVIDE (2) 12V 7AH BATTERIES	4.807	
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PS10-SIG1 POINT-TO-POINT REPORT											
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	CIRCUIT SETTINGS		TOTALS	
								STARTING CALCULATION VOLTAGE	MAX. VOLTAGE DROP	VOLTAGE DROP %	DECIBELS
PS10-SIG1	N/A	0.15800		WP	1	HPF-PS10	TO 1A 10VDC BATTERY CHARGER POWER SUPPLY IN A LOCKABLE, METAL ENCLOSURE	20.400	0.445	2.17%	87.84
					1	HPF-PS10	FIRE ALARM POWER SUPPLY MAIN BOARD	16	0.156	0.91%	99.09
					3	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	16	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	16	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 115CD	16	0.000	0.00%	100.00
PS10-SIG2	N/A	0.85200		WP	2	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	3	0.000	0.00%	100.00
					5	PZWLED	2-WIRE, HORN STROBE, WHITE 75CD	3	0.000	0.00%	100.00
					3	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 30CD	3	0.000	0.00%	100.00
					2	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	3	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	3	0.000	0.00%	100.00
PS10-SIG3	N/A	0.03800		WP	2	SRK-P	STROBE, STANDARD CD, RED, OUTDOOR, FLAN 15CD	3	0.000	0.00%	100.00
					4	SWLED	STROBE, WALL, WHITE 15CD	3	0.000	0.00%	100.00
							TOTAL STANDBY (A)	0.156	TOTAL ALARM (A)	3.142	
							REQUIRED STANDBY TIME (HOURS)	24	REQUIRED ALARM TIME (MINUTES)	5	
							SECONDARY STANDBY LOAD (A)	0.156	SECONDARY ALARM LOAD (A)	3.142	
							STANDBY AND ALARM SUBTOTAL (AMP HOURS)	3.744	DERATING FACTOR	4.006	
							SECONDARY LOAD REQUIREMENTS (AMP HOURS)	1.200	PROVIDE (2) 12V 7AH BATTERIES	4.807	
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

PS10-SIG2 POINT-TO-POINT REPORT											
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	CIRCUIT SETTINGS		TOTALS	
								STARTING CALCULATION VOLTAGE	MAX. VOLTAGE DROP	VOLTAGE DROP %	DECIBELS
PS10-SIG2	N/A	0.85200		WP	2	PZWLED	2-WIRE, HORN STROBE, WHITE 15CD	3	0.000	0.00%	100.00
					5	PZWLED	2-WIRE, HORN STROBE, WHITE 75CD	3	0.000	0.00%	100.00
					3	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 30CD	3	0.000	0.00%	100.00
					2	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 75CD	3	0.000	0.00%	100.00
					1	PCZWLED	2-WIRE, HORN STROBE, CEILING, WHITE 150CD	3	0.000	0.00%	100.00
PS10-SIG3	N/A	0.03800		WP	2	SRK-P	STROBE, STANDARD CD, RED, OUTDOOR, FLAN 15CD	3	0.000	0.00%	100.00
					4	SWLED	STROBE, WALL, WHITE 15CD	3	0.000	0.00%	100.00
							TOTAL STANDBY (A)	0.156	TOTAL ALARM (A)	3.142	
							REQUIRED STANDBY TIME (HOURS)	24	REQUIRED ALARM TIME (MINUTES)	5	
							SECONDARY STANDBY LOAD (A)	0.156	SECONDARY ALARM LOAD (A)	3.142	
							STANDBY AND ALARM SUBTOTAL (AMP HOURS)	3.744	DERATING FACTOR	4.006	
							SECONDARY LOAD REQUIREMENTS (AMP HOURS)	1.200	PROVIDE (2) 12V 7AH BATTERIES	4.807	
*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

Battery Calculations for Panel: PFC-4410RC						
Part No: PFC-4410RC - FACP RELEASING, 4 NAC, 4 ZONE						
Part No.	Qty	Description	Standby	Total Standby	Alarm	Total Alarm
PFC-4410RC_MB	1	FACP RELEASING, 4 NAC, 4 ZONE	100.0000mA	100.0000mA	215.0000mA	215.0000mA
Peripheral Devices			Total Panel Stby	100.0000mA	Total Panel Alarm	215.0000mA
30010000	1	ABORT SWITCH FOR PFC-4410RC (Initiating)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
2W-B	4	SMOKE, PHOTO (Initiating)	0.1000mA	0.4000mA	130.0000mA	520.0000mA
RMS-2T-WP-LP	1	DUAL ACTION MANUAL RELEASE (Initiating)	0.0000mA	0.0000mA	0.0000mA	0.0000mA
5.1K EOL	7	EOL RESISTOR 5.1K (EOL)	4.7058mA	32.9406mA	4.7058mA	32.9406mA
			Total Peripheral Stby	33.3406mA	Total Periph Alarm	552.9406mA
			Total Standby Amps	133.3406mA	Total Alarm Amps	767.9406mA
			Standby time: 24 Hrs	3.200Ah	Alarm time: 5 Min	0.630Ah
			Battery requirement:	3.830Ah	Compensation Factors - Standby: 1.2	Alarm: 1.2
			Requirement with compensation:	4.596Ah		

BATTERY & CIRCUIT CALCULATIONS

PANEL (NF52-640) BATTERY CALCULATION (SECONDARY POWER SOURCE REQUIREMENTS)																
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	STANDBY CURRENT		SECONDARY ALARM CURRENT						
								CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)					
NF52-640-SIG1	N/A	0.15800		WP	1	CP5-24	FIRE ALARM POWER SUPPLY CARD	0.00	0.00	0.04	0.04					
					1	CP52-640	FIRE ALARM CONTROL UNIT MAIN BOARD (CENTRAL PROCESSING UNIT)	0.32	0.32	0.32	0.32					
					1	KDM-2	KEYPAD/DISPLAY UNIT	0.1	0.1	0.1	0.1					
					1	LCM-320	LOOP CONTROL MODULE	0.13	0.13	0.13	0.13					
					1	LEM-320	LOOP EXTENSION MODULE PROVIDES EVEN NUMBERED SLC LOOPS	0.1	0.1	0.1	0.1					
					2	SAL	SLC ALARM LOOP	0	0	0.2	0.4					
					1	UDACT1-2	UNIVERSAL DIGITAL ALARM COMMUNICATOR (SMALL TALKER)	0.04	0.04	0.1	0.1					
					L1	N/A	0.85200		WP	1	P2GRKLED	2-WIRE HORN STROBE, STANDARD CD, RED, OUTDOOR 110CD	0	0	0.094	0.094
										1	FDU-80	ANNUNCIATOR, TERMINAL MODE 80-CHARACTER, BACKLIT LCD DISPLAY	0	0	0.064	0.064
										2	DNR WSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC SMOKE DETECTOR FSP-951R, FLASHSCAN AND CLIP MODE	0.0002	0.0004	0.0045	0.009
14	FOM-1	ADDRESSABLE DUAL MONITOR MODULE W/ FLASHSCAN, 2 CLASS CONTACTS	0.00075	0.0105						0.0064	0.0886					
11	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM C DRY CONTACTS	0.00025	0.00285						0.0065	0.0715					
80	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY	0.0002	0.0160						0.0045	0.360					
6	FST-951R W/B300-6	LOW-PROFILE INTELLIGENT, RATE-OF-RISE THERMAL SENSOR, FLASHSCAN ONLY	0.0002	0.0012						0.0045	0.027					
4	ISO-X	SLC LOOP ISOLATOR MODULE	0.0004	0.0016						0.005	0.02					
15	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	0.000375	0.00625						0.005	0.075					
1	FRM-1	ADDRESSABLE RELAY MODULE W/ FLASHSCAN, 2 FORM C DRY CONTACTS	0.00025	0.0025						0.0065	0.0665					
L2	N/A	0.16650		WP	29	FSP-951 W/B300-6	ADDRESSABLE LOW-PROFILE PHOTOELECTRIC SMOKE DETECTOR, FLASHSCAN ONLY	0.0002	0.0068	0.0045	0.1305					
					1	FST-951R W/B300-6	LOW-PROFILE INTELLIGENT, RATE-OF-RISE THERMAL SENSOR, FLASHSCAN ONLY	0.0002	0.0002	0.0045	0.0045					
					1	ISO-X	SLC LOOP ISOLATOR MODULE	0.0004	0.0004	0.005	0.005					
					4	NBG-12LX	DUAL-ACTION ADDRESSABLE PULL STATION, INCLUDES KEY LOCKING FEATURE	0.000375	0.0015	0.005	0.02					
												TOTAL STANDBY (A)	0.736	TOTAL ALARM (A)	2.17	
												REQUIRED STANDBY TIME (HOURS)	24	REQUIRED ALARM TIME (MINUTES)	5	
												SECONDARY STANDBY LOAD (A)	0.736	SECONDARY ALARM LOAD (A)	2.17	
												STANDBY AND ALARM SUBTOTAL (AMP HOURS)	17.65	DERATING FACTOR	1.25	
												SECONDARY LOAD REQUIREMENTS (AMP HOURS)	22.31	PROVIDE (2) 12V 7AH BATTERIES		
					*BATTERY BOX SIZE CAPACITY NOT SPECIFIED. REFER TO MANUFACTURER DOCUMENTATION.											

NF52-640-SIG1 POINT-TO-POINT REPORT											
CIRCUIT	MAX CARD AMPS	USED CARD AMPS	SPARE CARD AMPS	SYMBOL	QTY	PART NO.	DESCRIPTION	CIRCUIT SETTINGS		TOTALS	
								STARTING CALCULATION VOLTAGE	MAX. VOLTAGE DROP	VOLTAGE DROP %	DECIBELS
NF52-640-SIG1	N/A	0.15800		WP	16	CP5-24	FIRE ALARM POWER SUPPLY CARD	20.400	0.445	2.17%	87.84
					1	CP52-640	FIRE ALARM CONTROL UNIT MAIN BOARD (CENTRAL PROCESSING UNIT)	16	0.32	0.91%	99.09
					3	KDM-2	KEYPAD/DISPLAY UNIT	16	0.000	0.00%	100.00
					1	LCM-320	LOOP CONTROL MODULE	16	0.000	0.00%	100.00
					1	LEM-320	LOOP EXTENSION MODULE PROVIDES EVEN NUMBERED SLC LOOPS	16	0.000	0.00%	100.00
L1	N/A	0.85200		WP	2	P2GRKLED	2-WIRE HORN STROBE, STANDARD CD, RED, OUTDOOR 110CD	3	0.000	0.00%	100.00
					1	FDU-80	ANNUNCIATOR, TERMINAL MODE 80-CHARACTER, BACKLIT LCD DISPLAY	3	0.000	0.00%	100.00
					2	DNR WSP-951R	INTELLIGENT NON-RELAY PHOTOELECTRIC SMOKE DETECTOR FSP-951R, FLASHSCAN AND CLIP MODE	3	0.000	0.00%	100.00