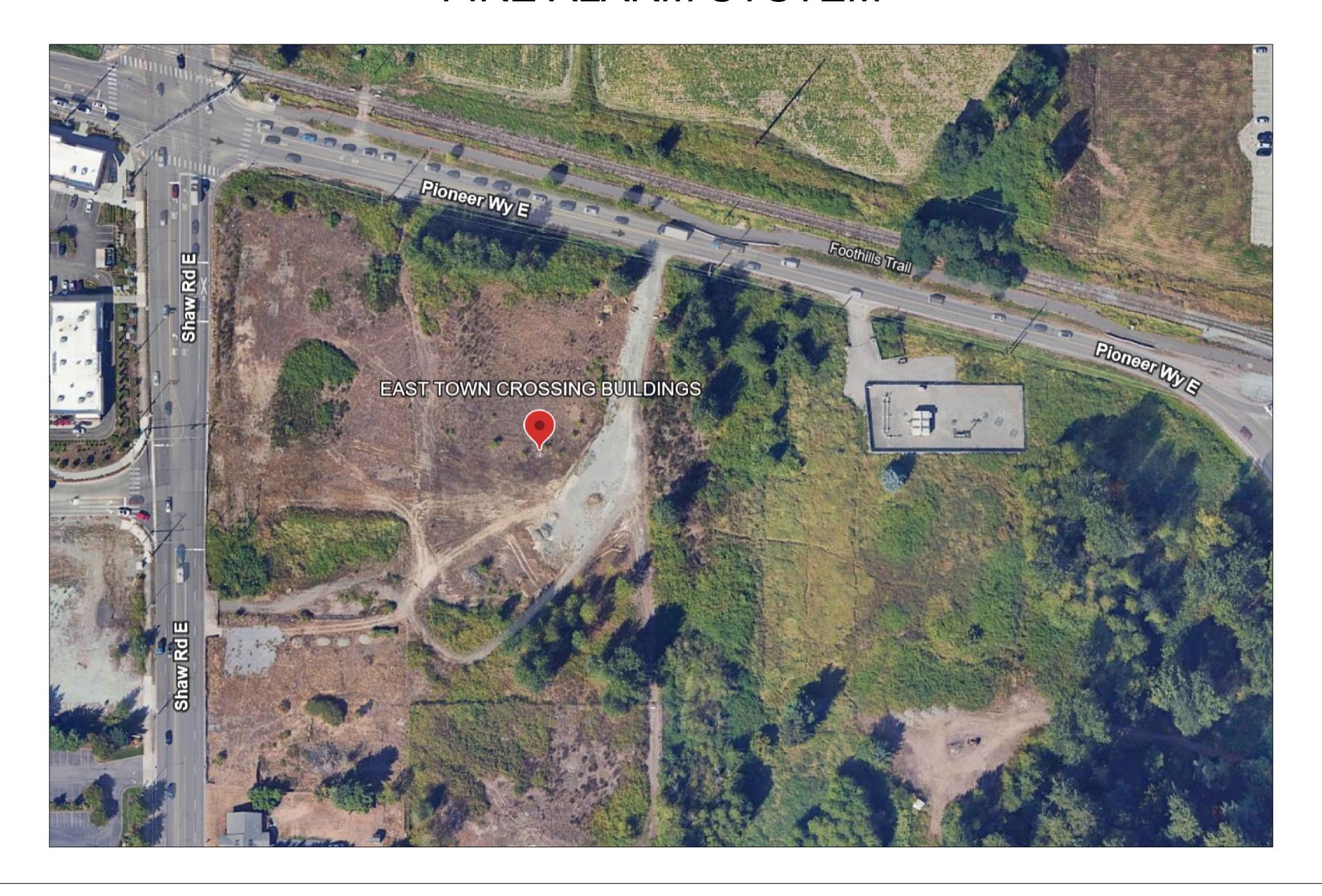
EAST TOWN CROSSING BUILDING C

SHAW RD. E. & PIONEER WY. E. PUYALLUP, WA 98372

FIRE ALARM SYSTEM



GENERAL NOTES
THESE DRAWINGS DEPICT GENERAL LOCATIONS OF LIFE SAFETY EQUIPMENT & FIELD DEVICES. EXACT ROUTING OF CONDUITS TO BE DETERMINED IN THE FIELD BY THE INSTALLING CONTRACTOR TO SUIT

ALL FIRE ALARM SYSTEM WIRING SHALL BE CLEAR FROM SHORTS, OPENS AND GROUNDS. SHOULD ANY CONDITIONS EXIST THAT DIFFER FROM WHAT IS INDICATED ON THESE DRAWINGS WHICH CAUSE MAJOR DEVIATIONS IN THE WORK SHOWN, THE CONTRACTOR SHALL CONTACT THE DESIGNER IN A TIMELY MANNER SO AS NOT TO IMPAIR THE CONSTRUCTION SCHEDULE. CONTRACTOR IS RESPONSIBLE FOR MAKING AND OBTAINING APPROVAL FOR ALL NECESSARY

ADJUSTMENTS IN CIRCUITING AS REQUIRED TO ACCOMMODATE THE RELOCATION OF EQUIPMENT AND/OR DEVICES WHICH ARE AFFECTED BY ANY AUTHORIZED CHANGE. THE POWER CIRCUIT TO THE FACP AND TO THE FIRE ALARM POWER SUPPLIES SHALL BE ON A DEDICATED 120V, 20A BRANCH CIRCUIT BREAKER, AND SHALL HAVE A RED MARKING, LOCK-ON PROVISION AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL." THE LOCATION OF THE CIRCUIT DISCONNECT MEANS (CIRCUIT BREAKER) SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.

INSTALLATION OF DEVICES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. POWER LIMITED AND NON-POWER LIMITED FIELD WIRING MUST BE INSTALLED WITHIN THE FACP ENCLOSURE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

ANY SMOKE DETECTOR HEAD INSTALLED BEFORE THE BUILDING IS CLEANED AND ACCEPTED SHALL BE

ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC). FIRE ALARM CIRCUITS EXTENDING BEYOND ONE BUILDING AND RUN OUTDOORS SHALL BE INSTALLED IN

ACCORDANCE WITH NFPA 70 ARTICLES 760, 770, 725 AND 800 WHERE APPLICABLE.

). ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS. . ALL SHIELDED WIRE MUST HAVE SHIELD CONTINUITY AT FULL LENGTH OF THE WIRE.

2. ONLY FIRE ALARM SYSTEM WIRING CAN BE RUN IN THE SAME CONDUIT.

3. MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS. 4. EXISTING CONDUITS MAY BE USED BY THE INSTALLATION CONTRACTOR AS DEEMED NECESSARY, HOWEVER, ANY EXISTING CONDUIT WILL BE USED ONLY IF CONDUITS MEET CURRENT STANDARDS AND

5. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A CENTRAL UL LISTED MONITORING STATION. 6. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.

NEW MANUAL AND AUTOMATIC FIRE ALARM SYSTEM IN A NEW RESIDENTIAL BUILDING. NEW FIRE ALARM PANEL IS BEING INSTALLED ALONG WITH NOTIFICATION DEVICES AS PER THE APPLICABLE CODES, WITH PULL STATIONS AT EVERY EXIT. SPRINKLER WATERFLOW SWITCH IS BEING MONITORED TO ACTIVATE NOTIFICATION DEVICES UPON ALARM.

SCOPE OF WORK

APPLICABLE CODES

INTERNATIONAL BUILDING CODE - 2021 ED. INTERNATIONAL MECHANICAL CODE - 2021 ED. UNIFORM PLUMBING CODE - 2021 ED. INTERNATIONAL FUEL GAS CODE - 2021 ED. INTERNATIONAL ENERGY CONSERVATION CODE - 2021 ED. NATIONAL ELECTRICAL CODE - 2023 ED. INTERNATIONAL FIRE CODE - 2021 ED. ADA STANDARDS FOR ACCESSIBLE DESIGN - 2010 ED.

NFPA 72 2019 EDITION

CONTRACTOR INFO

SYSTEM DESIGNER/INSTALLER DRAWINGS PREPARED BY NAME: MAX POWER ELECTRIC EMAIL: jeremey@maxpowernw.com JEM SYSTEMS LLC hmadeira@jemsystems.com 480-977-3555 PHONE #: 253-838-4400

MONITORING COMPANY

NORTHWEST ALARM MONITORING LLC 877-870-0910 1743 1ST AVE S STE 201, SEATTLE, WA 98134 PHONE #:

	SHEET INDEX		
FA-00	COVER SHEET		
FA-01	PROJECT INFORMATION		
FA-02	FIRST, SECOND & THIRD FLOOR PLANS		
FA-03	PROJECT CALCULATIONS & RISER DIAGRAM		
FA-04	WIRING DIAGRAMS		

City of Puyallup THE APPROVED CONSTRUCTION Fire REVIEWED FOR COMPLIANCE 08/22/2025 elopment & Permitting Services

City of Puyallup

ISSUED PERMIT

Building Planning

Engineering Public Works

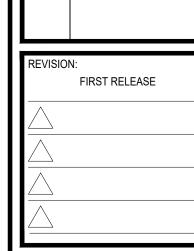
Traffic

Fire

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.





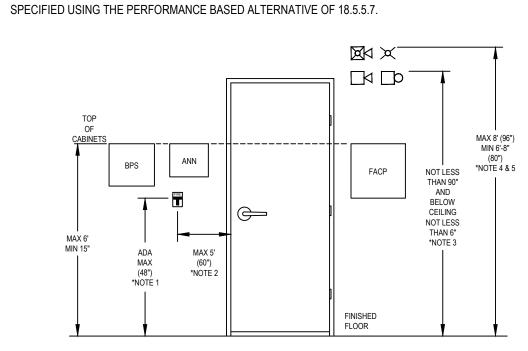
HEET DESCRIPTION: FIRE ALARM SYSTEM **COVER SHEET**

RAWN BY: JEM SYSTEMS DATE: 07.31.2025 SCALE: SEE DRAWINGS

BUILDING DATA			
CONSTRUCTION TYPE:	V-B	FIRE PROTECTION:	FULLY SPRINKLERED
OCCUPANCY GROUP:	R-2	NUMBER OF STORIES:	3
OCCUPANT LOAD:	57	WORK AREA:	15,206 SQFT

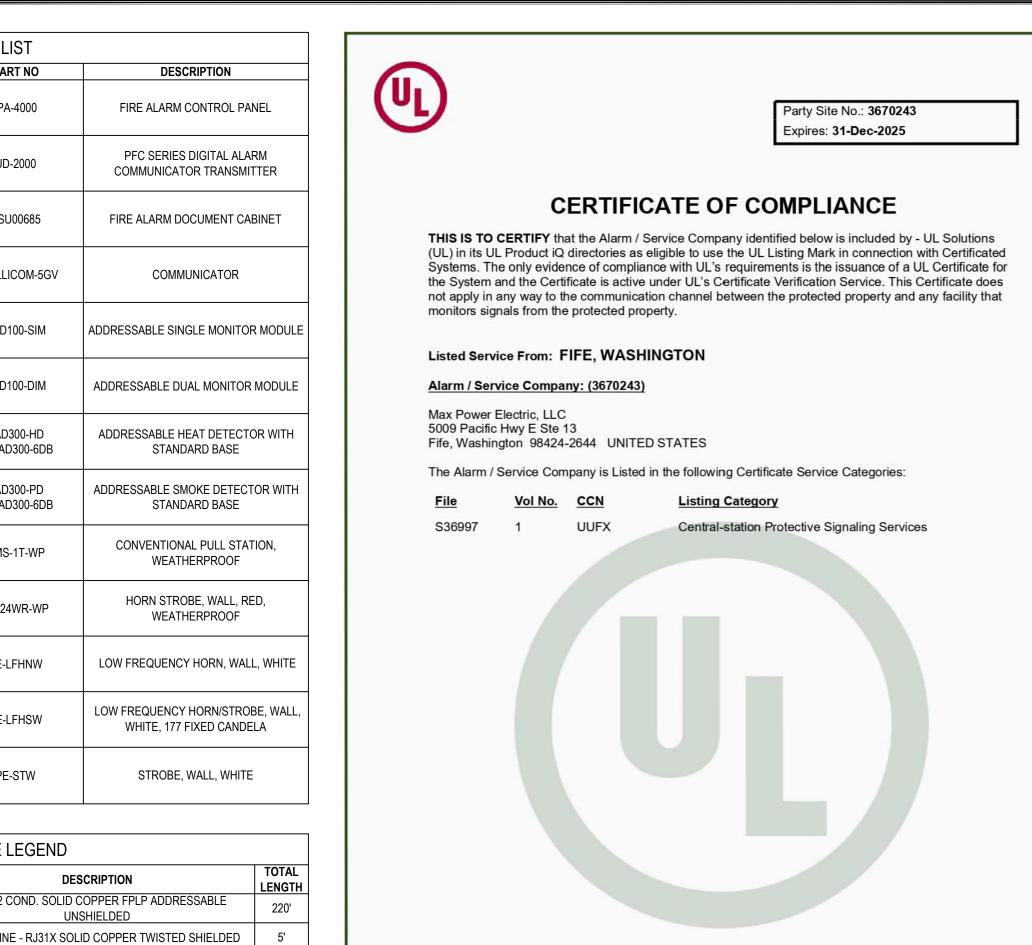
TYPICAL MOUNTING HEIGHTS

- 1. NFPA 72 2019 17.15.6 THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42in AND NOT MORE THAN 48in FROM THE FINISHED FLOOR.
- 2. NFPA 72 2019 17.15.9.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5ft OF EACH EXIT DOORWAY ON EACH FLOOR.
- NFPA 72 2019 18.4.9.1 IF CEILING HEIGHTS ALLOW, AND UNLESS OTHERWISE PERMITTED BY 18.4.9.2 THROUGH 18.4.9.5, WALL-MOUNTED APPLIANCES SHALL HAVE THEIR TOPS ABOVE THE FINISHED FLOORS AT HEIGHTS OF NOT LESS THAN 90in AND BELOW THE FINISHED CEILINGS AT DISTANCES OF NOT LESS THAN 6in.
- 4. NFPA 72 2019 18.4.9.3 IF COMBINATION AUDIBLE/ VISIBLE APPLIANCES ARE INSTALLED, THE LOCATION OF THE INSTALLED APPLIANCE SHALL BE DETERMINED BY THE REQUIREMENTS OF 18.5.5. (SEE NOTE 5).
- 5. NFPA 72 2019 18.5.5.1 WALL-MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80in. AND NOT GREATER THAN 96in ABOVE THE FINISHED FLOOR OR AT THE MOUNTING HEIGHT



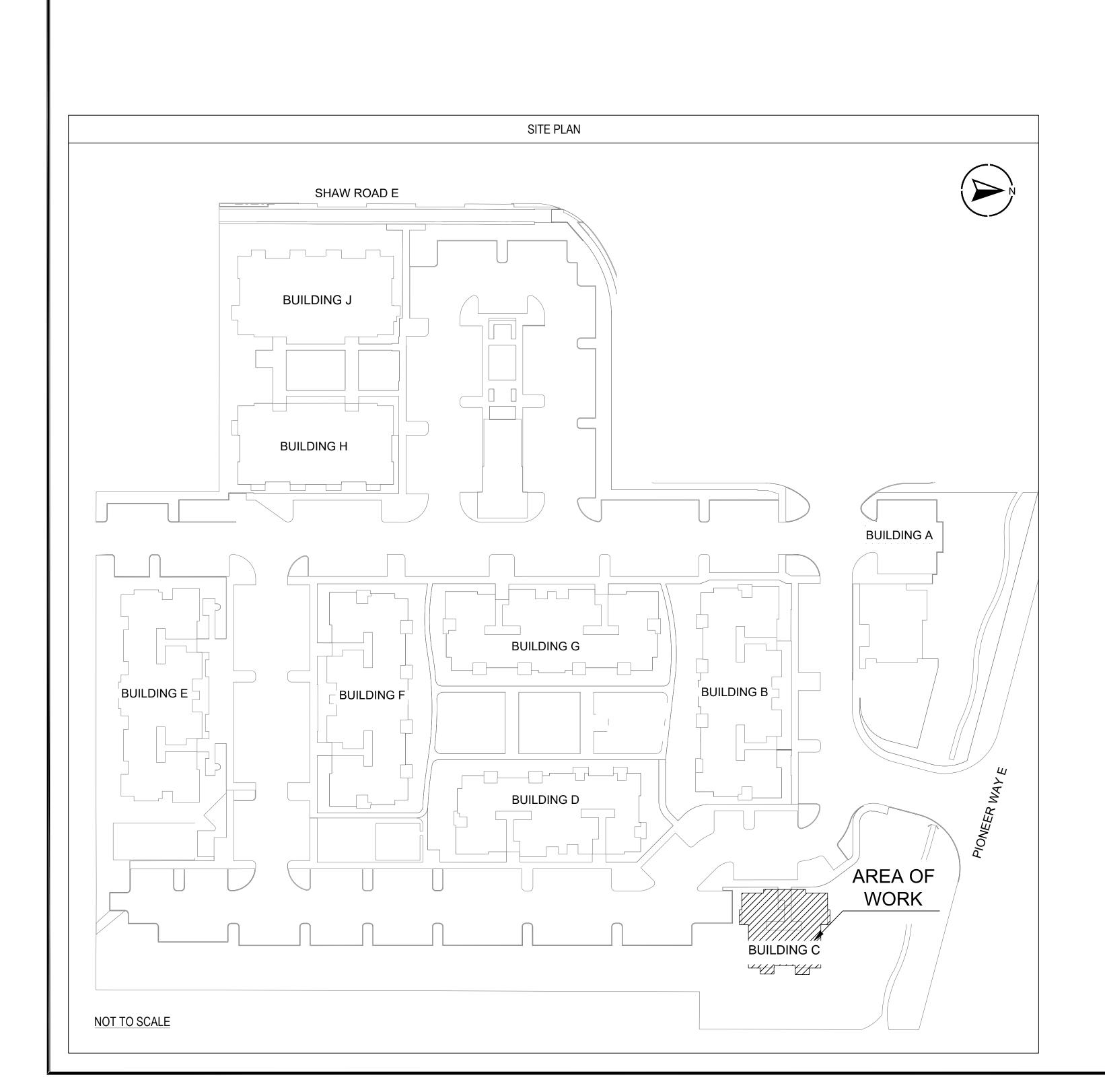
EQUIPMENT LIST					
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION	
FACIL	1	POTTER	IPA-4000	FIRE ALARM CONTROL PANEL	
FACU	1	POTTER	UD-2000	PFC SERIES DIGITAL ALARM COMMUNICATOR TRANSMITTER	
DOC	1	SPACE AGE ELECTRONICS	SSU00685	FIRE ALARM DOCUMENT CABINET	
CELL	1	POTTER	INTELLICOM-5GV	COMMUNICATOR	
(AIM)	3	POTTER	PAD100-SIM	ADDRESSABLE SINGLE MONITOR MODU	
(ADM)	1	POTTER	PAD100-DIM	ADDRESSABLE DUAL MONITOR MODUL	
H	4	POTTER	PAD300-HD W/PAD300-6DB	ADDRESSABLE HEAT DETECTOR WITH STANDARD BASE	
(S)	1	POTTER	PAD300-PD W/PAD300-6DB	ADDRESSABLE SMOKE DETECTOR WIT STANDARD BASE	
F _{WP}	3	POTTER	RMS-1T-WP	CONVENTIONAL PULL STATION, WEATHERPROOF	
₩ _P	4	POTTER	HS-24WR-WP	HORN STROBE, WALL, RED, WEATHERPROOF	
∇ F _{LF}	24	POTTER	PE-LFHNW	LOW FREQUENCY HORN, WALL, WHITE	
Ŭ _{LF}	6	POTTER	PE-LFHSW	LOW FREQUENCY HORN/STROBE, WAL WHITE, 177 FIXED CANDELA	
X	4	POTTER	PE-STW	STROBE, WALL, WHITE	

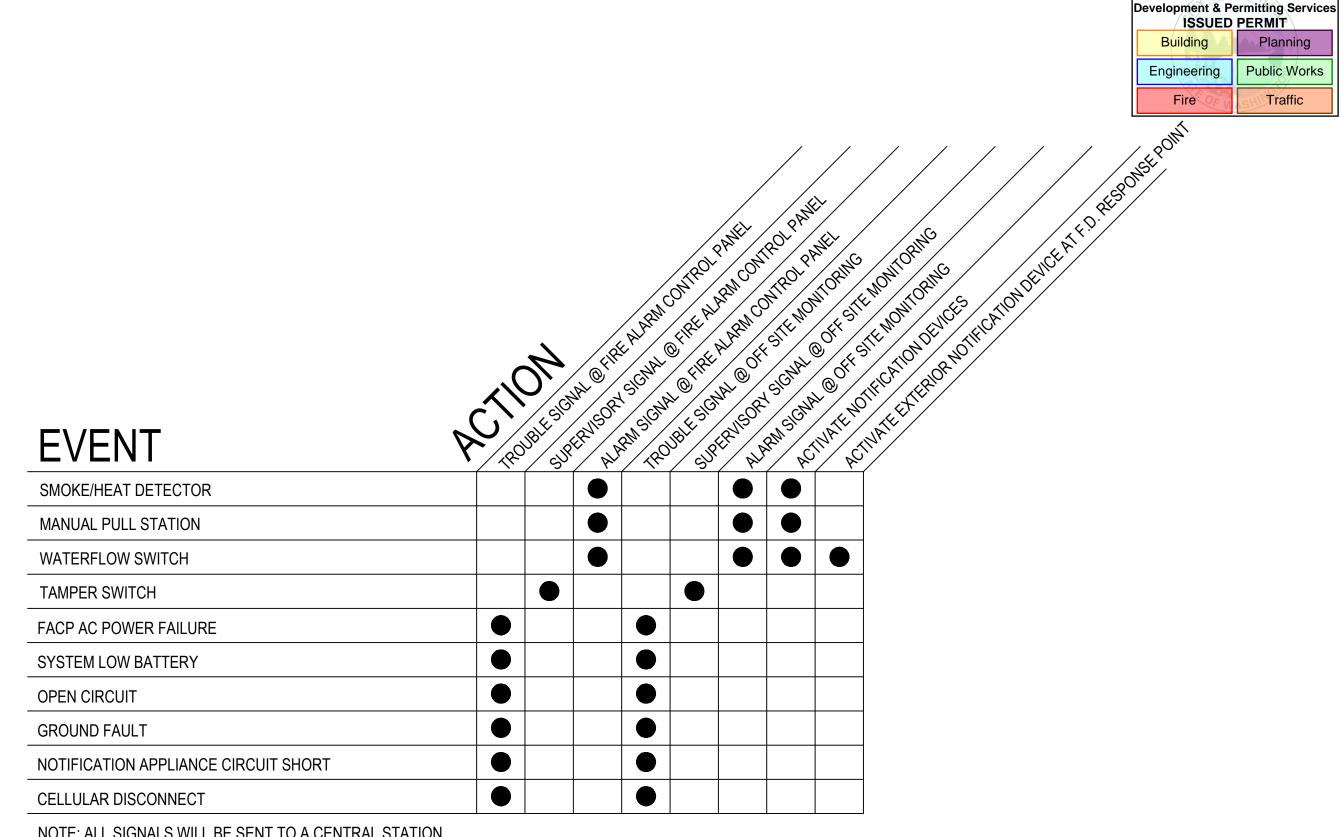
	CABLE AND WIRE LEGEND					
LABEL	PART NO	RESISTANCE MFT	AWG	DESCRIPTION	TOTAL LENGTH	
D	16/2 FPLP (SLC)	4.10	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED	220'	
E	RJ31X (PHL)	16.14	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED	5'	
	14/2 FPLP (NAC)	2.60	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	1005'	
Z	18/2 FPLP (IDC)	6.50	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	140'	



THIS CERTIFICATE EXPIRES ON 31-DEC-25

"LOOK FOR THE UL ALARM / SYSTEM CERTIFICATE"





NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION

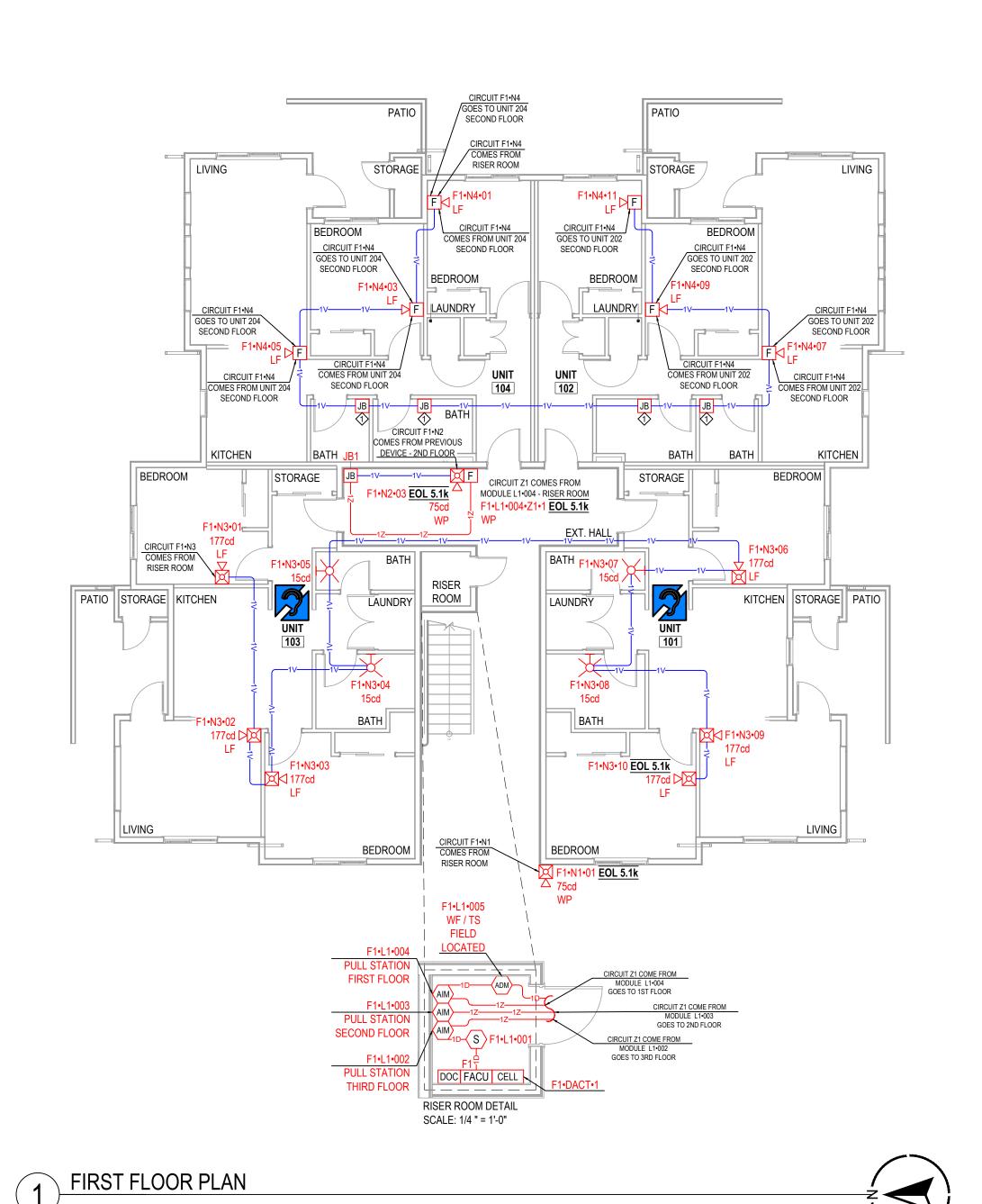
Jeremey Locken, ET Jeroney Lover

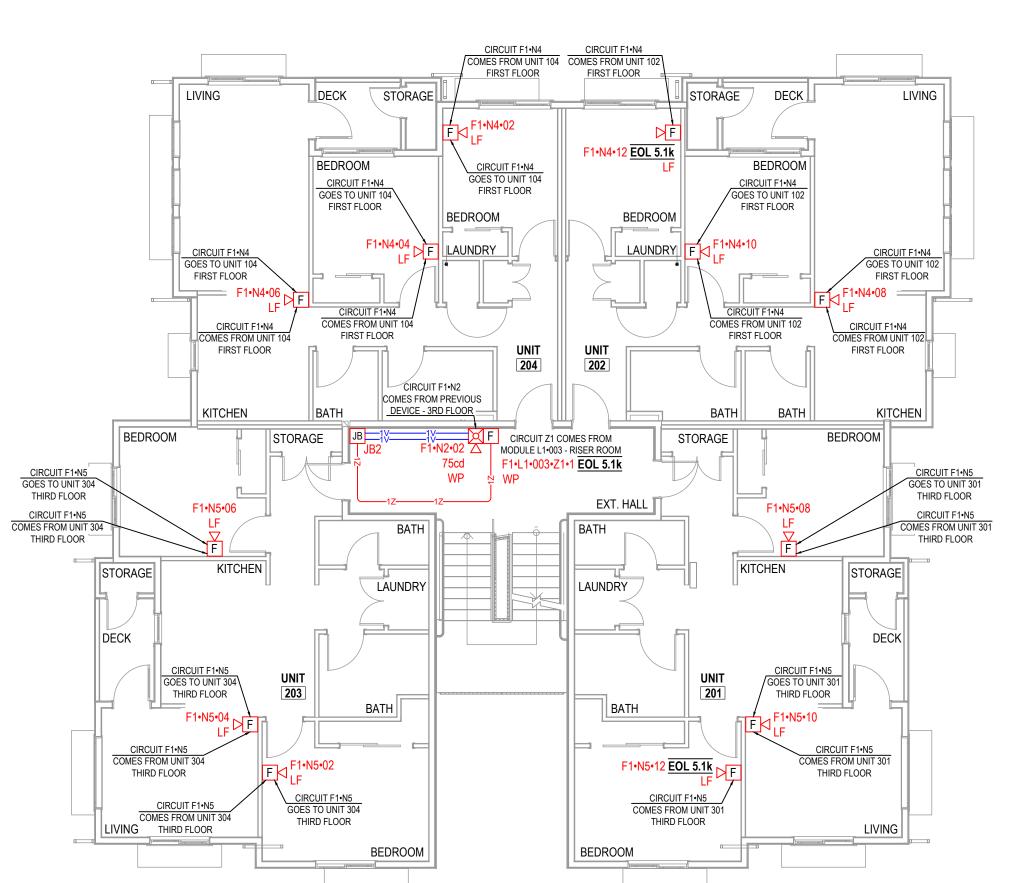
NICET Level III Fire Alarm Certification #: 95603 Expires 07/2027

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	FIRST RELEASE	
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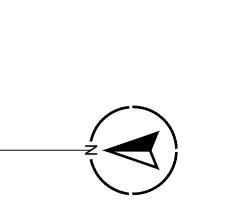
SHEET DESCRIPTION: FIRE ALARM SYSTEM PROJECT INFORMATION

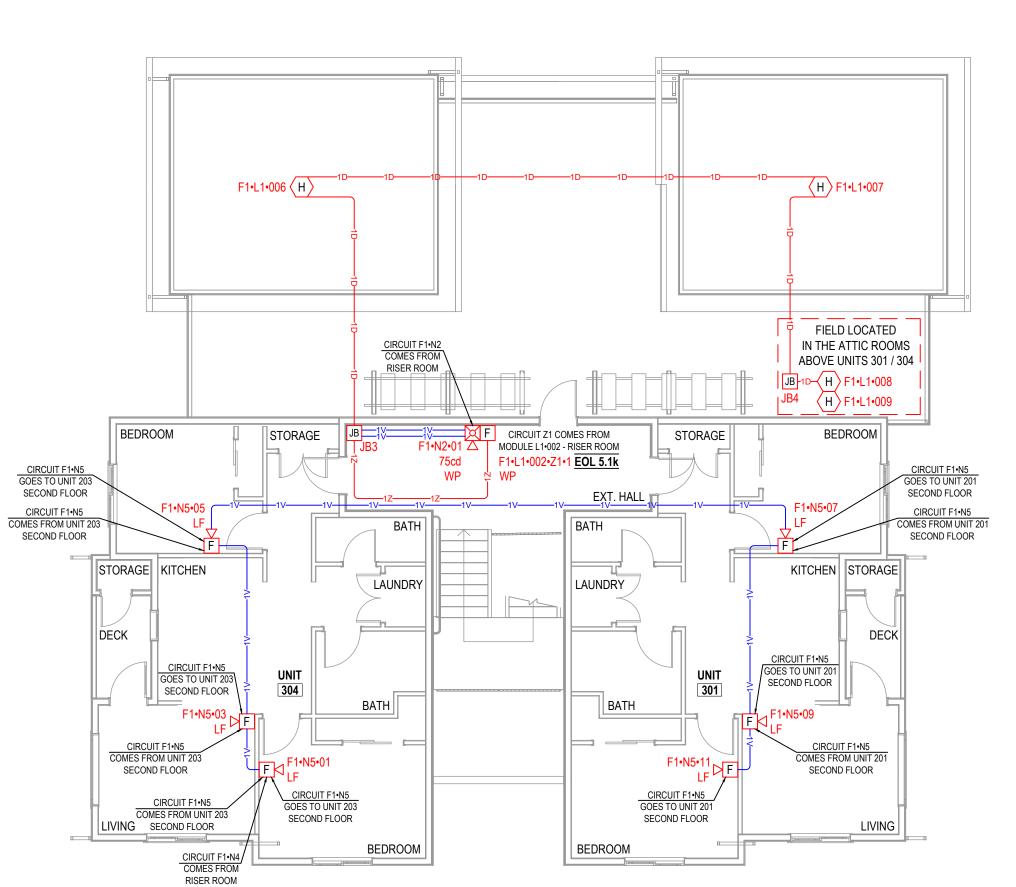
RAWN BY: JEM SYSTEMS DATE: 07.31.2025





SECOND FLOOR PLAN







City of Puyallup Development & Permitting Serv ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire OF V	Traffic

		EQUIPMENT LIST
s	SYMBOL	DESCRIPTION
	FACU	FIRE ALARM CONTROL PANEL
	DOC	FIRE ALARM DOCUMENT CABINET
]]	CELL	COMMUNICATOR
	AIM	ADDRESSABLE SINGLE MONITOR MODULE
	ADM	ADDRESSABLE DUAL MONITOR MODULE
	H	ADDRESSABLE HEAT DETECTOR WITH STANDARD BASE
	S	ADDRESSABLE SMOKE DETECTOR WITH STANDARD BASE
	F _{WP}	CONVENTIONAL PULL STATION, WEATHERPROOF
	₩P	HORN STROBE, WALL, RED, WEATHERPROOF
	FLF	LOW FREQUENCY HORN, WALL, WHITE
	LF	LOW FREQUENCY HORN/STROBE, WALL, WHITE, 177 FIXED CANDELA
	X	STROBE, WALL, WHITE
	JB	JUNCTION BOX
		•

CABLE AND WIRE LEGEND				
LABEL	AWG	DESCRIPTION		
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED		
E	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED		
V	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED		
Z	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED		

$\langle \hat{1} \rangle$	

JUNCTION BOXES IN BATHROOMS ARE FOR FUTURE ADA ADAPTABILITY.

KEY NOTES

	ABREVIATIONS
WF	WATERFLOW
TS	TAMPER SWITCH

ADDRESS & LABEL CLARIFICATION

PANEL NUMBER
SLC LOOP NUMBER
DEVICE ADDRESS ON SLC LOOP

F1•L1•001

PANEL NUMBER
NOTIFICATION CIRCUIT NUMBER

DEVICE NUMBER ON CIRCUIT F1•N1•01

WINDOWLESS BLDS

16. VEHICLES AND VESSELS

CABLE QUANTITY

TYPE OF CABLE (CHECK CABLE AND WIRE LEGEND)

1D

PANEL NAME: F1: FIRE ALARM CONTROL PANEL P1: REMOTE POWER SUPPLY

NFPA 72 - TABLE A.18.4.4 AVERAGE AMBIENT SOUND LEVEL ACCORDING TO LOCATION												
LOCATION	SOUND LEV (dBA)											
1. BUSINESS OCCUPANCIES	54											
2. EDUCATIONAL OCCUPANCIES	45											
3. INDUSTRIAL OCCUPANCIES	88											
4. INSTITUTIONAL OCCUPANCIES	50											
5. MERCANTILE OCCUPANCIES	40											
6. MECHANICAL ROOMS	91											
7. PIERS AND WATER SURROUNDED STRUCTURES	40											
8. PLACES OF ASSEMBLY	60											
9. RESIDENTIAL OCCUPANCIES	35											
10. STORAGE OCCUPANCIES	30											
11. THOROUGHFARES, HIGH-DENSITY URBAN	70											
12. THOROUGHFARES, MEDIUM-DENSITY URBAN	55											
13. THOROUGHFARES, RURAL AND SUBURBAN	40											
14. TOWER OCCUPANCIES	35											
15. UNDERGROUND STRUCTURES AND	40											

Jeremey Locken, ET

Jerowy Sollow

NICET Level III Fire Alarm

Certification #: 95603

Expires 07/2027

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
FIRST, SECOND
& THIRD
FLOOR PLANS

DRAWN BY: JEM SYSTEMS

DATE: 07.31.2025

SCALE: SEE DRAWINGS

FA-02

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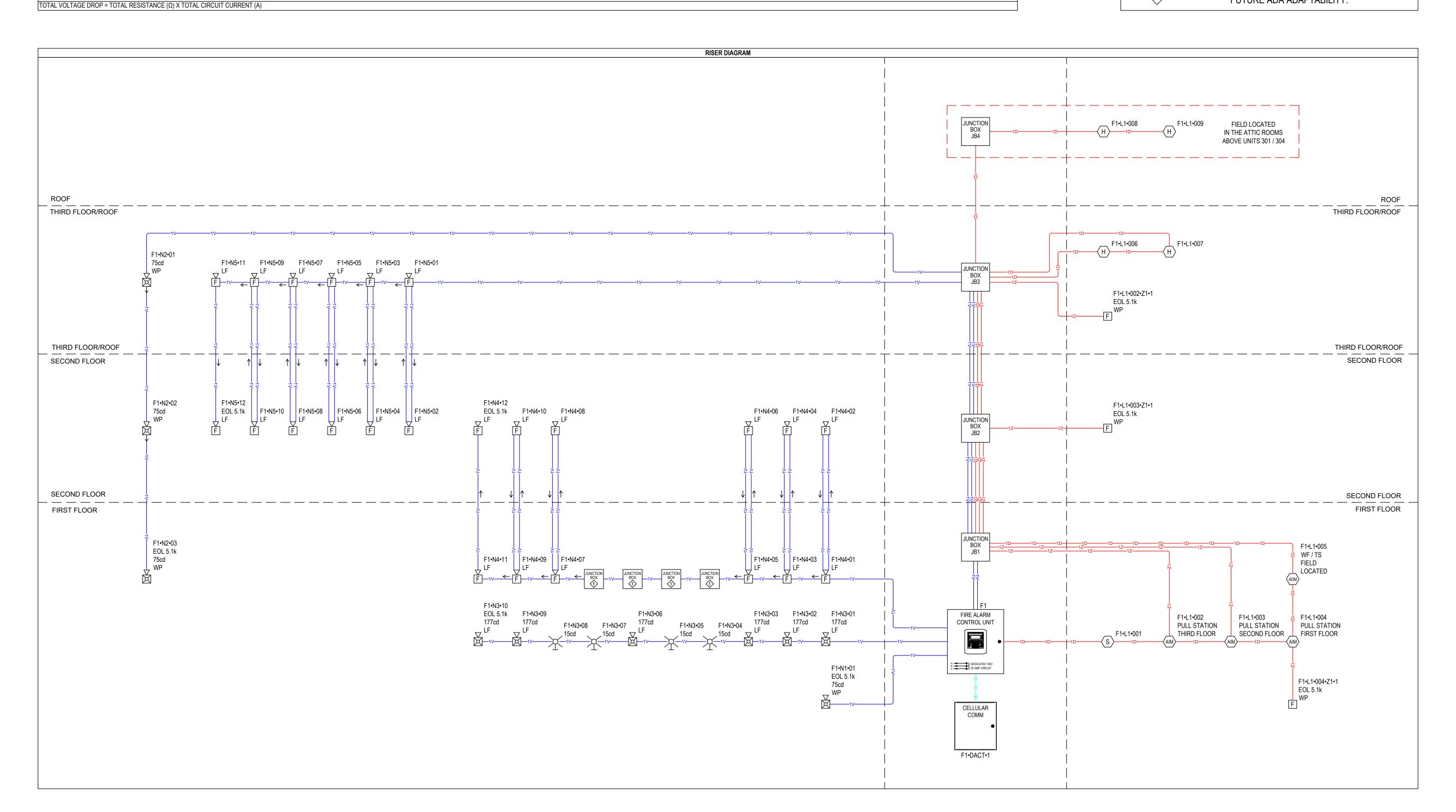
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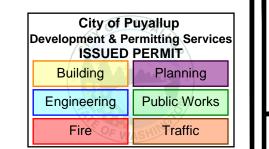
				EL F1 (IPA-4000) BATTERY CALCULA					
			(SECC	NDARY POWER SOURCE REQUIREM		NUDDENT	000000000000000000000000000000000000000	DM OUDDE: :=	
		QTY	DADTNO	DESCRIPTION	STANDBY C	TOTAL (A)	SECONDARY ALA CURRENT DRAW (A)	TOTAL (A)	
		QIT	PART NO.	DESCRIPTION MAIN BOARD FOR IPA-4000 FIRE	` '		` '	. ,	
PANEL COMPONENTS 1 IPA-4000 MAIN BOARD			ALARM CONTROL PANEL PFC SERIES DIGITAL ALARM	0.13	0.13	0.22	0.22		
		1 UD-2000		COMMUNICATOR TRANSMITTER	0.016	0.016	0.023	0.023	
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A)	
	(ADM)	1	PAD100-DIM	DUAL INPUT MODULE	0.00024 0.00024		0.00024	0.00024	
F1•L1	(AIM)	3	PAD100-SIM	SINGLE INPUT MODULE	0.00024	0.00072	0.00024	0.00072	
FI*LI	H	A PAD300-H W/PAD300-		HEAT DETECTOR WITH 6" STANDARD BASE	0.0003	0.0012	0.0003	0.0012	
	(S)	1	PAD300-PD W/PAD300-6DB	PHOTOELECTRIC SMOKE DETECTOR WITH 6" STANDARD BASE	0.0003	0.0003	0.0003	0.0003	
F1•N1	₩ _P	1	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0	0	0.140	0.140	
F1•N2	₩ _P	3	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0	0	0.140	0.420	
	Ŭ _{LF}	6	PE-LFHSW	LED LOW PROFILE HORN STROBE, LOW FREQUENCY, 177 CANDELA, WHITE 177CD	0	0	0.256	1.54	
F1•N3	米	4	PE-STW	LED STROBE, 24 VDC, WHITE 15CD	0	0	0.022	0.088	
F1•N4	Ĕ _{LF}	12	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	1.18	
F1•N5	Ĕ _{LF}	12	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	1.18	
F1•DACT	CELL	1	INTELLICOM-5GV	5G LTE-M DUAL PATH COMMERCIAL FIRE ALARM COMMUNICATOR (VERIZON)	0	0	0	0	
					TOTAL STANDBY (A)	0.14846	TOTAL ALARM (A)	4.78	
					REQUIRED STANDE		24		
	SECUNDADA ST	ANDBY LOAD (A)		0.14846	REQUIRED ALARM 24	,	5		
	SECONDARY A	. ,		4.78	0.08		3.56 0.398		
	STANDBY AND ALARM S	. ,	S)	7.10	0.00		3.96	•	
	DERATING	· · · · · · · · · · · · · · · · · · ·	,			1.25			
	SECONDARY LOAD REQU		RS)				4.95		
				PROVIDE (2) 12V 8AH BATTERIES					

Battery Calculation Worksheet	7/31/2025				
(current values will be expressed in mA)					
Device	Quantity of	Standby mA	Alarm mA	Total Device	Total Device
Description	Devices	Per Device	Per Device	Standby mA	Alarm mA
INTELLICOM-5GV	1	68	140	68	140
Total Current				68	140
Summary Sect	ion				
	Standby Ho	urs Required	24		
	Alarm Minu	tes Required	5		
	68				
	140				
Standby Hours * (Total Standby mA * .00	1) = Total Systen	Standby AH	1.63		
Alarm Minutes * .0167 * (Total Alarm mA	* .001) = Total Syst	em Alarm AH	0.01		
Total Standby AH + Total Alarm A	AH = Tota	al System AH	1.64		
Total System AH * 1.	Required AH	2.05			

LUMP SUM REPORT SUMMARY																			
SOURCE	CIRCUIT	PART NO	MAX. CARD CURRENT (A)	TOTAL CARD CURRENT (A)	SPARE CARD CURRENT (A)	SPARE CARD CURRENT %	MAX. CIRCUIT CURRENT (A)	TOTAL CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT (A)	SPARE CIRCUIT CURRENT %	WIRE GAUGE	WIRE RESISTANCE (Ω/KFT)		TOTAL CIRCUIT RESISTANCE (Ω)		MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DROP %
	N1	IPA-4000 MAIN BOARD	10			55.59 %	3	0.112	2.89	96.27 %	14	2.60	47	0.244724	20.40	16	0.03	20.37	0.13 %
	N2			4.44	5.56		3	0.336	2.66	88.80 %	14	2.60	129	0.668	20.40	16	0.22	20.18	1.10 %
F1 (IPA-4000)	N3						3	1.62	1.38	45.87 %	14	2.60	183	0.949	20.40	16	1.54	18.86	7.56 %
	N4						3	1.18	1.82	60.80 %	14	2.60	297	1.54	20.40	16	1.82	18.58	8.91 %
	N5						3	1.18	1.82	60.80 %	14	2.60	346	1.80	20.40	16	2.12	18.28	10.38 %
CALCULATION METHODS:																			
TOTAL RESISTANCE (Ω) = WIRE RESISTANCE (Ω/FT) X 2 X TOTAL CIRCUIT LENGTH (FT)																			

JUNCTION BOXES IN BATHROOMS ARE FOR FUTURE ADA ADAPTABILITY.





Jeremey Locken, ET

Jeremey Locken, ET

NICET Level III Fire Alarm
Certification #: 95603

Expires 07/2027



EAST TOWN CROSSING BUILDING C SHAW RD. E. & PIONEER WY. E. PUYALLUP, WA 98372

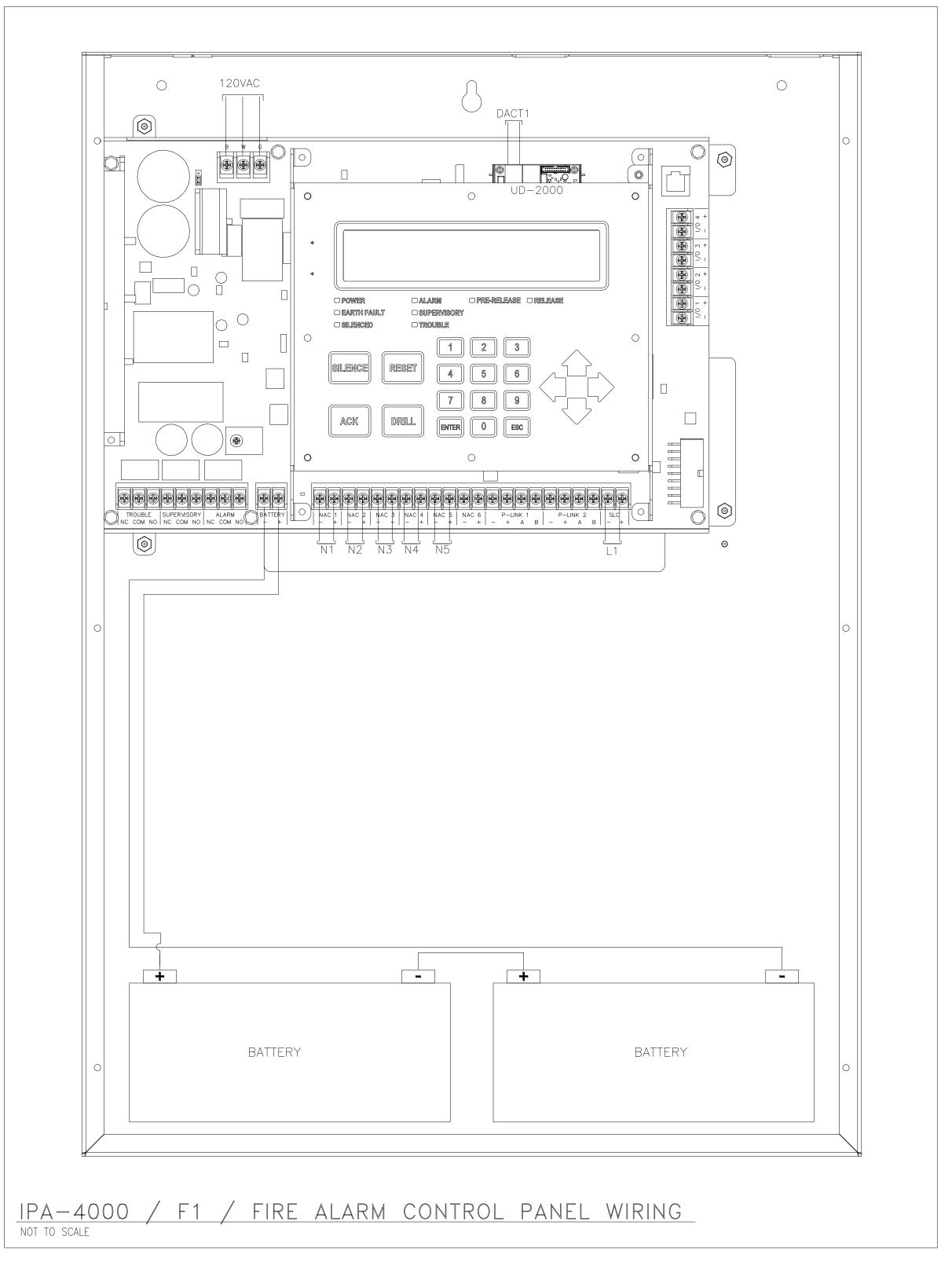
SHEET DESCRIPTION:
FIRE ALARM SYSTEM
PROJECT CALCULATIONS
& RISER DIAGRAM

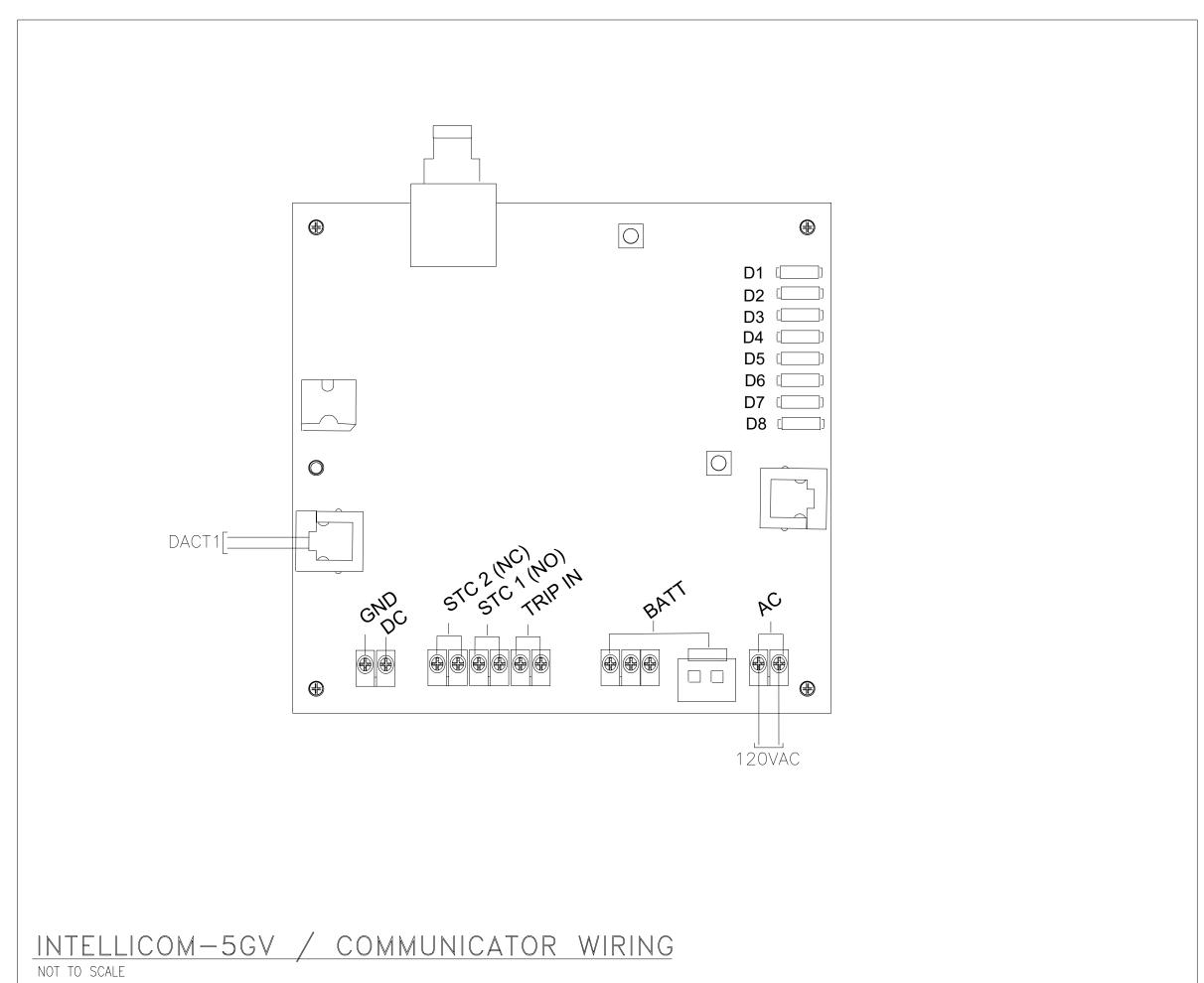
DRAWN BY: JEM SYSTEMS

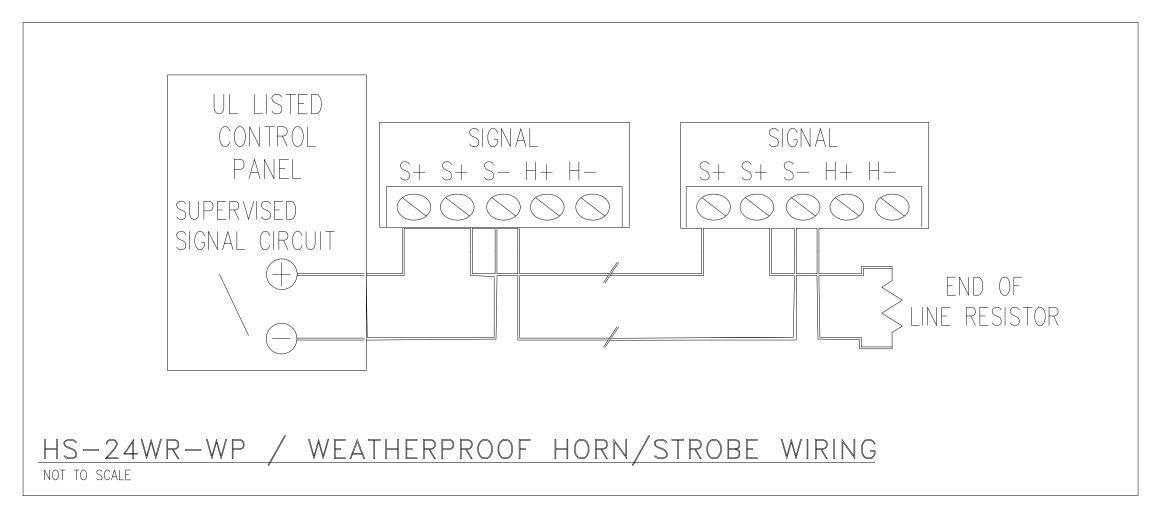
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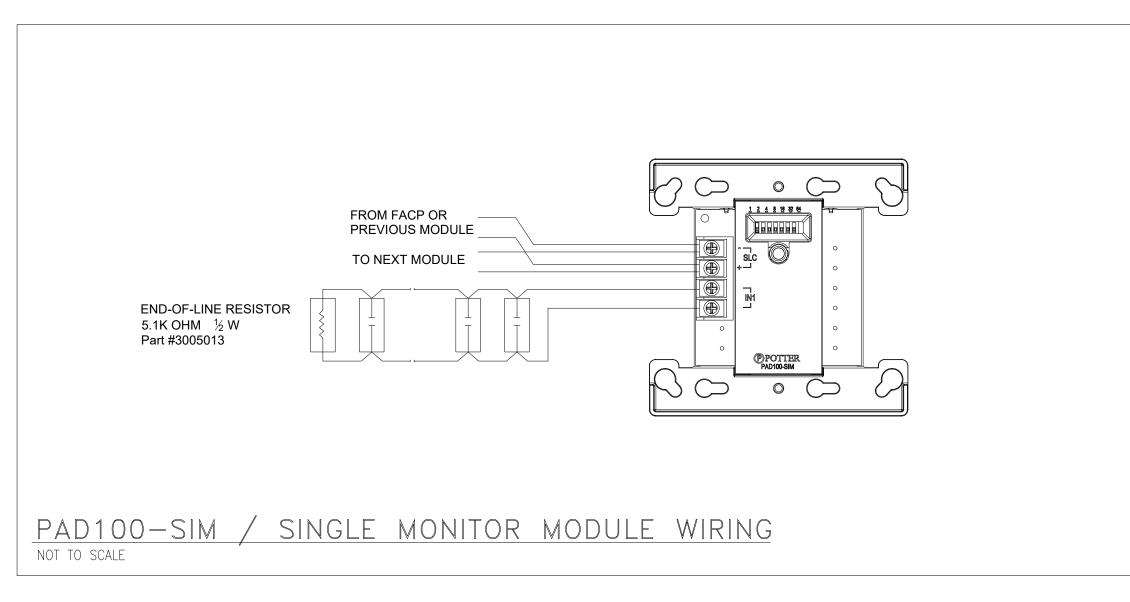
SCALE: SEE DRAWINGS

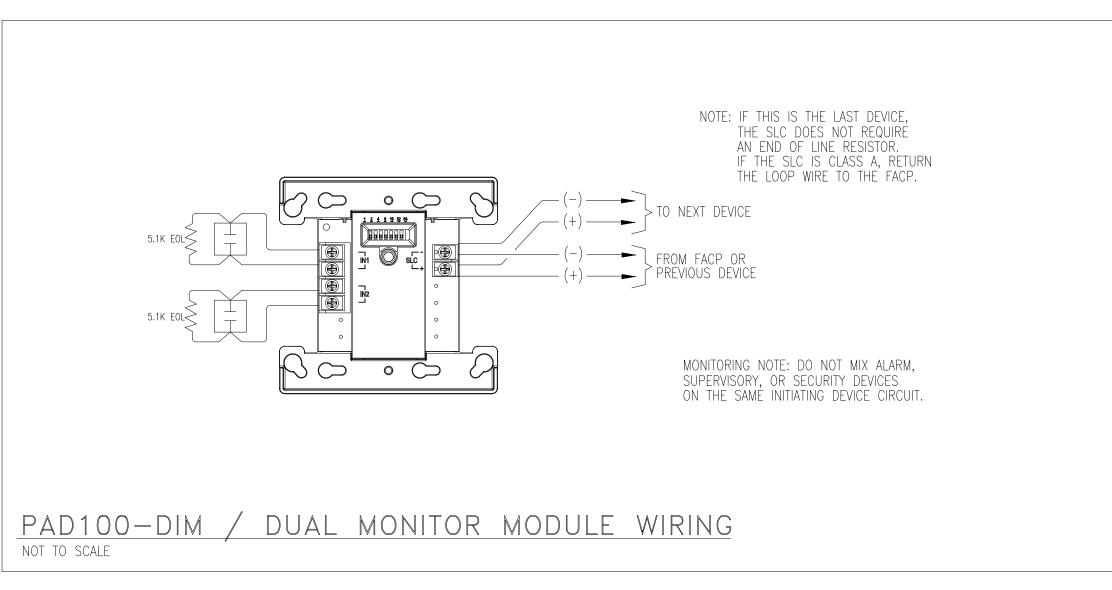
FA-03

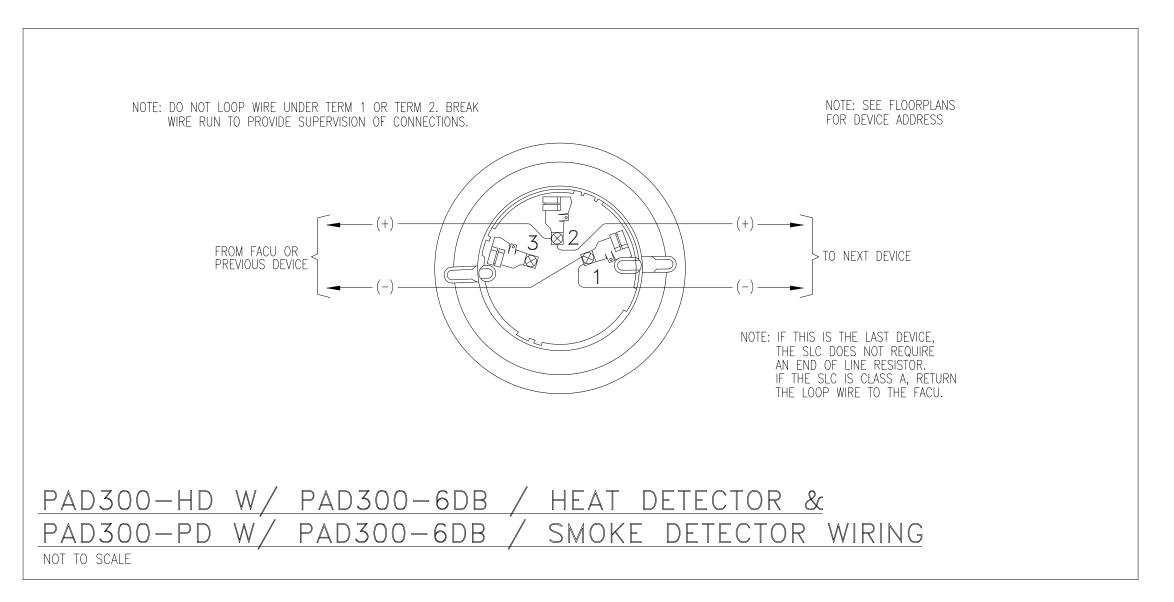


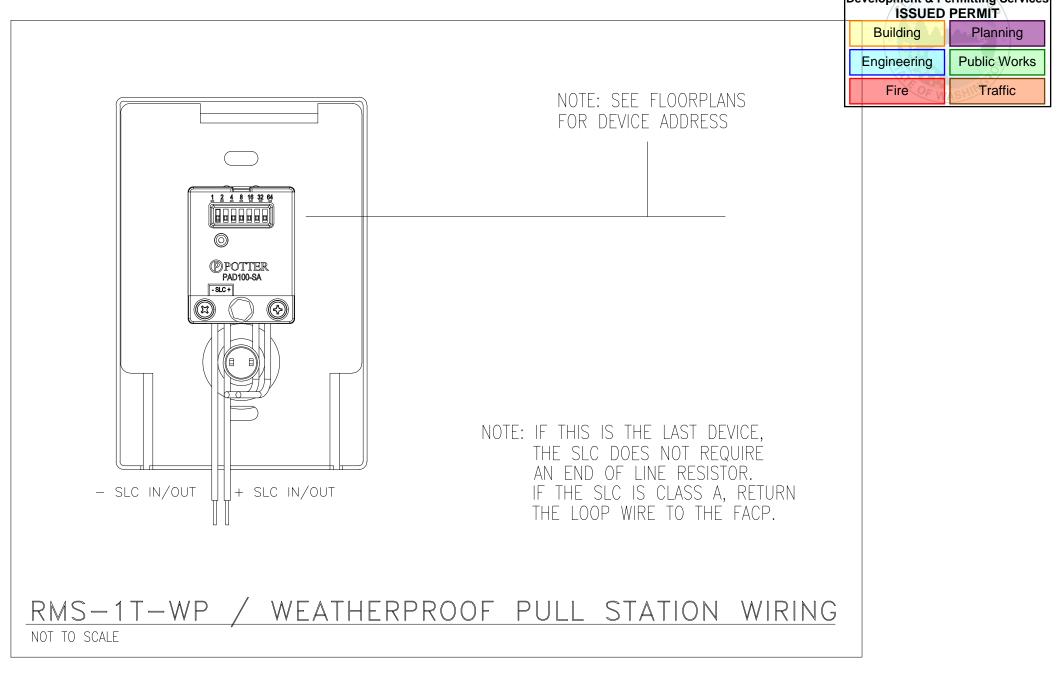


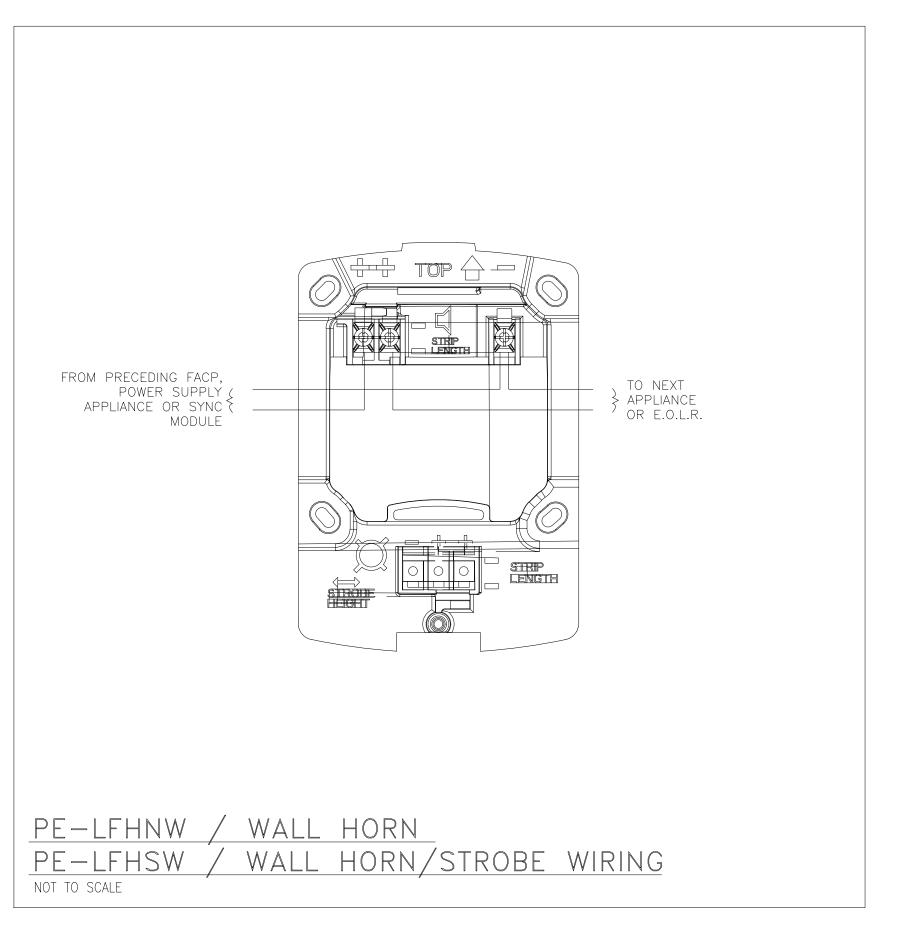


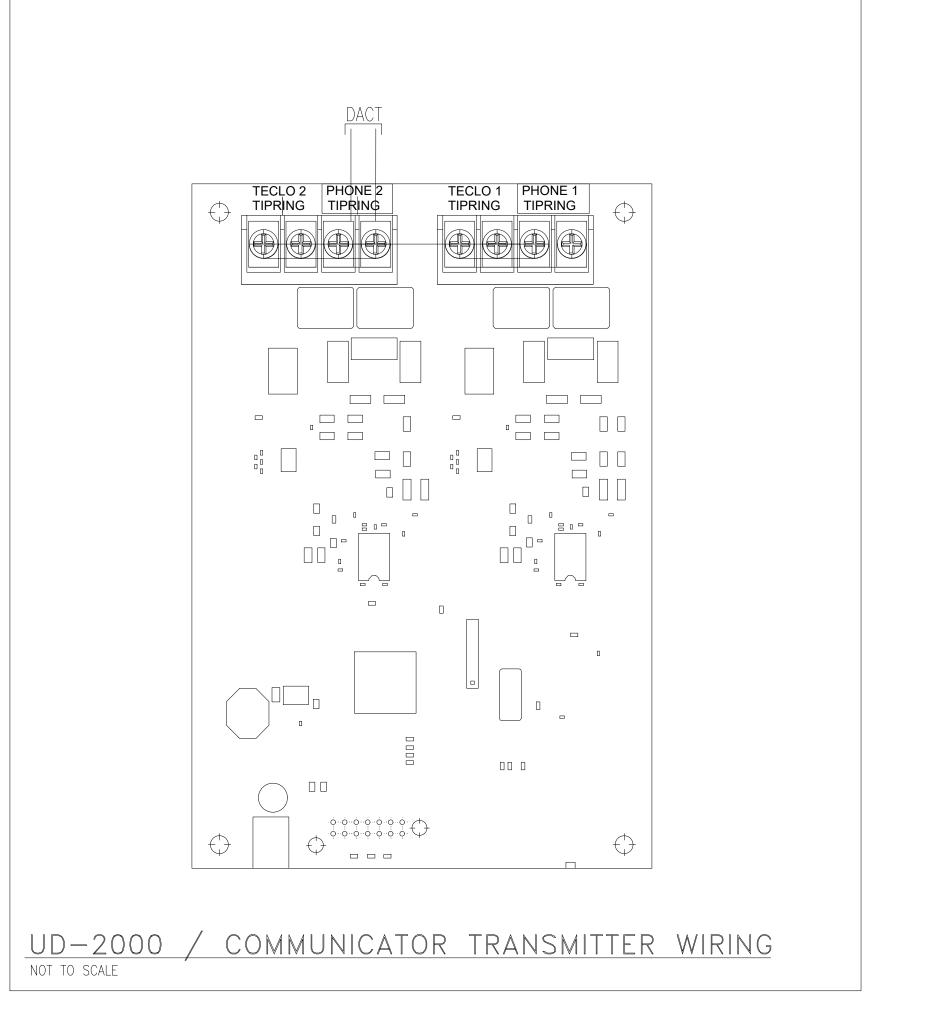


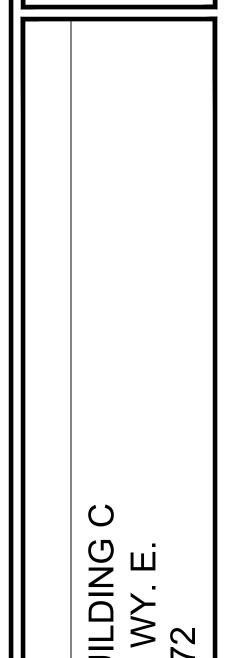












NICET Level III Fire Alarm Certification #: 95603

Expires 07/2027

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
WIRING DIAGRAMS

DRAWN BY: JEM SYSTEMS

DATE: 07.31.2025

SCALE: SEE DRAWINGS

FA-04