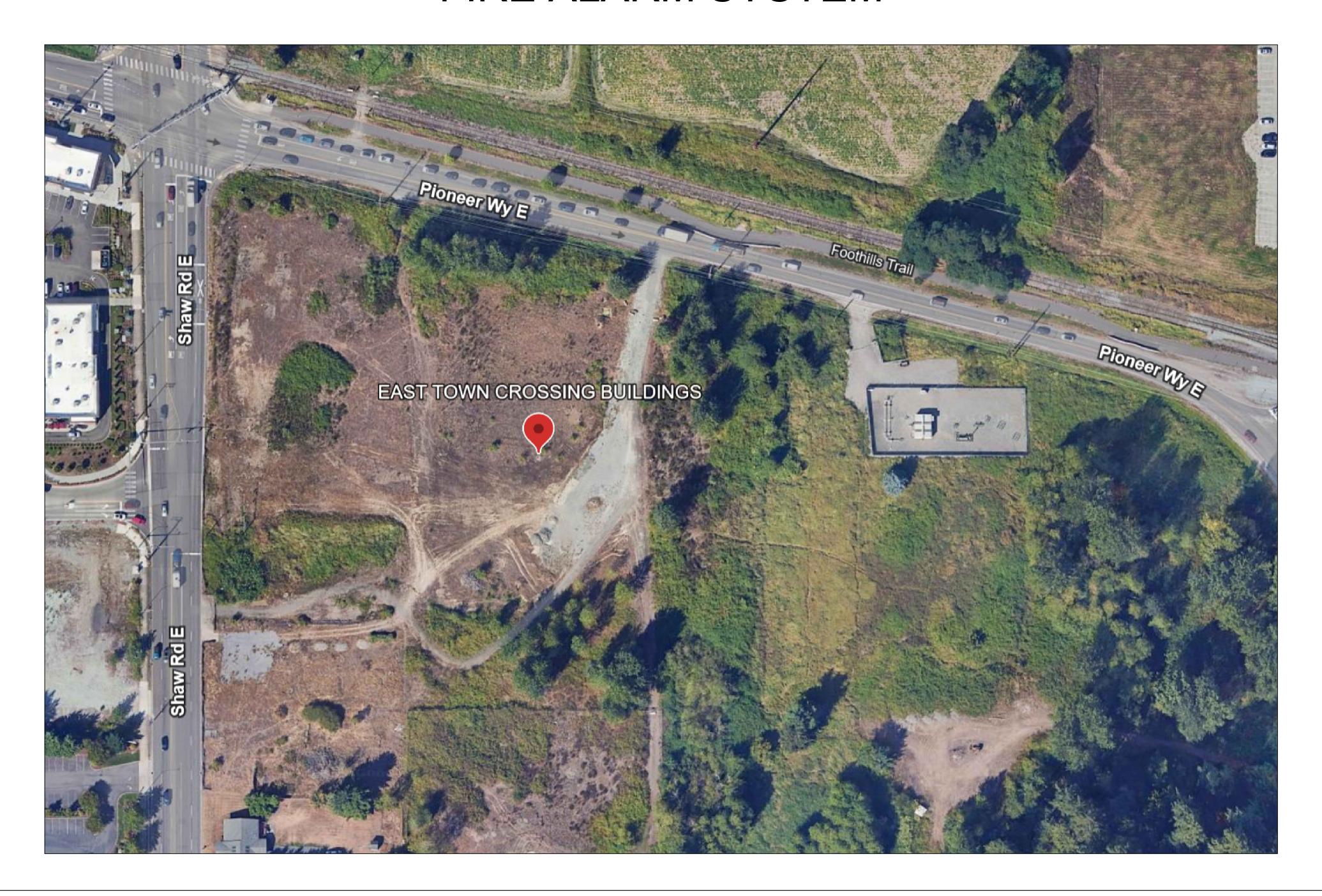


EAST TOWN CROSSING BUILDING D

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
Building Planning
Engineering Public Works
Fire Traffic

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.

5. 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

8. ALL WIRING SHALL BE INSTALLED ACCORDING TO NFPA 70 (NEC).
9. 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.

O. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS.

10. ALL WIRING, INCLUDING SHIELDS MUST BE DRY AND FREE OF SHORTS AND GROUNDS 11. 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.

MAINTAIN 40 PERCENT MAXIMUM CONDUIT FILL RATIO AS PER NEC REQUIREMENTS.
 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

15. THE FIRE ALARM SYSTEM SHALL BE MONITORED BY A CENTRAL UL LISTED MONITORING STATION.16. ALL CEILINGS ARE ASSUMED TO BE 10' A.F.F., SMOOTH CONSTRUCTION UNLESS NOTED OTHERWISE.

SCOPE OF WORK

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.

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

NAME: MAX POWER ELECTRIC
EMAIL: jeremey@maxpowernw.com
PHONE #: 253-838-4400

DRAWINGS PREPARED BY

JEM SYSTEMS LLC
hmadeira@jemsystems.com
480-977-3555

MONITORING COMPANY NORTHWEST ALARM MONITORING LLC

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

FA-00	COVER SHEET
FA-01	PROJECT INFORMATION
FA-02	PROJECT CALCULATIONS
FA-03	FIRST & SECOND FLOOR PLANS
FA-04	THIRD FLOOR & ROOF PLANS
FA-05	RISER DIAGRAM
FA-06	WIRING DIAGRAMS

SHEET INDEX

Jeremey Locken, ET

Jerowy Soller

NICET Level III Fire Alarm

Certification #: 95603

Expires 07/2027



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

REVISIO	N:	
	FIRST RELEASE	
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HEET DESCRIPTION:
FIRE ALARM SYSTEM
COVER SHEET

DRAWN BY: JEM SYSTEMS

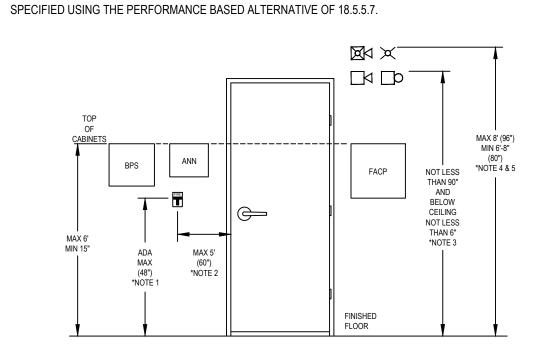
DATE: 06.16.2025

SCALE: SEE DRAWINGS

BUILDING DATA								
CONSTRUCTION TYPE:	V-B	FIRE PROTECTION:	FULLY SPRINKLERED					
OCCUPANCY GROUP:	R-2	NUMBER OF STORIES:	3					
OCCUPANT LOAD:	150	WORK AREA:	30,266 SQFT					

TYDICAL MOUNTING LICIOUTO	
1 YPICAL MOUNTING HEIGHTS	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.
- 3. 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



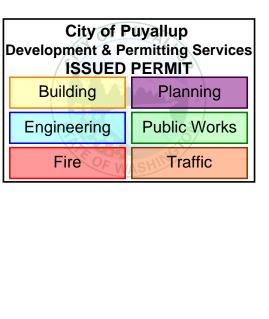
		EQUI	PMENT LIST	
SYMBOL	QUANTITY	MANUFACTURER	PART NO	DESCRIPTION
[FAQUE]	1	POTTER	IPA-4000	FIRE ALARM CONTROL PANEL
FACU	1	POTTER	UD-2000	PFC SERIES DIGITAL ALARM COMMUNICATOR TRANSMITTER
DOC	1	SPACE AGE ELECTRONICS	SSU00685	FIRE ALARM DOCUMENT CABINET
NAC	2	POTTER	PSN-106	10A CONVENTIONAL POWER SUPPLY
CELL	1	POTTER	INTELLICOM-5GV	COMMUNICATOR
(ADM)	4	POTTER	PAD100-DIM	ADDRESSABLE DUAL MONITOR MODULE
H	7	POTTER	PAD300-HD W/PAD300-6DB	ADDRESSABLE HEAT DETECTOR WITH STANDARD BASE
(S)	1	POTTER	PAD300-PD W/PAD300-6DB	ADDRESSABLE SMOKE DETECTOR WITH STANDARD BASE
F	6	POTTER	RMS-1T-WP	CONVENTIONAL PULL STATION, WEATHERPROOF
₩ _{WP}	7	POTTER	HS-24WR-WP	HORN STROBE, WALL, RED, WEATHERPROOF
F _{LF}	70	POTTER	PE-LFHNW	LOW FREQUENCY HORN, WALL, WHITE
⊠ _{LF}	14	POTTER	PE-LFHSW	LOW FREQUENCY HORN/STROBE, WALL WHITE, 177 FIXED CANDELA
¥	8	POTTER	PE-STW	STROBE, WALL, WHITE

		(CABLE A	ND 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	435'
E	RJ31X (PHL)	16.14	22	PHONE LINE - RJ31X SOLID COPPER TWISTED SHIELDED	5'
V	14/2 FPLP (NAC)	2.60	14	NAC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	3445'
Z	18/2 FPLP (IDC)	6.50	18	IDC - 2 COND. SOLID COPPER FPLP ANALOG UNSHIELDED	539'



Party Site No.: **3670243** Expires: 31-Dec-2025 CERTIFICATE OF COMPLIANCE THIS IS TO CERTIFY that the Alarm / Service Company identified below is included by - UL Solutions (UL) in its UL Product iQ directories as eligible to use the UL Listing Mark in connection with Certificated Systems. The only evidence of compliance with UL's requirements is the issuance of a UL Certificate for the System and the Certificate is active under UL's Certificate Verification Service. This Certificate does not apply in any way to the communication channel between the protected property and any facility that The Alarm / Service Company is Listed in the following Certificate Service Categories: Central-station Protective Signaling Services ***THIS CERTIFICATE EXPIRES ON 31-DEC-25*** "LOOK FOR THE UL ALARM / SYSTEM CERTIFICATE"

SITE PLAN SHAW ROAD E BUILDING H BUILDING G AREA OF BUILDING E BUILDING C NOT TO SCALE



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EVENT	ROBE SIRE MARIN SOURCE SIRE OF SIRE OF SOURCE SOURC
SMOKE/HEAT DETECTOR	Rolle Sir Lesis Les Les Les Les Les Les Les Les Les Le
SMOKE/HEAT DETECTOR MANUAL PULL STATION	ROBLES RESERVED RESERVED FOR THE SERVED RESERVED
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH	ROUBLE SIPERUS OFF. RECOURTE SIPERUS OFF. RECTURE RECT
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH TAMPER SWITCH	ROUBLE SIDE FUND OF THE
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH	ROBEL SIER INSORT SIERT BURNISOR SIE
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH TAMPER SWITCH	TROUBLES LEGAT LEG
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH TAMPER SWITCH FACP AC POWER FAILURE	ROUBLES CHERMS ROUBLES CHERMS RETURN
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH TAMPER SWITCH FACP AC POWER FAILURE SYSTEM LOW BATTERY	Redublish Fred British Redublish Red
SMOKE/HEAT DETECTOR MANUAL PULL STATION WATERFLOW SWITCH TAMPER SWITCH FACP AC POWER FAILURE SYSTEM LOW BATTERY OPEN CIRCUIT	Control of the contro

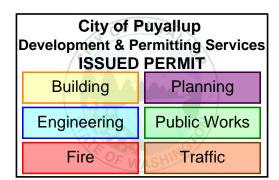
NOTE: ALL SIGNALS WILL BE SENT TO A CENTRAL STATION

Jeremey Locken, ET Jeromey Loven NICET Level III Fire Alarm Certification #: 95603 Expires 07/2027



REVISION	N:	
	FIRST RELEASE	
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PROJECT INFORMATION



				EL F1 (IPA-4000) BATTERY CALCULA Ondary Power Source Requirem				
			· ·		STANDBY C	CURRENT	SECONDARY ALA	ARM CURRENT
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL
PANEL CO	MPONENTS	1	IPA-4000 MAIN BOARD	MAIN BOARD FOR IPA-4000 FIRE ALARM CONTROL PANEL	0.13	0.13	0.22	0.22
		1	UD-2000	PFC SERIES DIGITAL ALARM 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
	(ADM)	4	PAD100-DIM	DUAL INPUT MODULE	0.00024	0.00096	0.00024	0.0009
F1•L1	H	7	PAD300-HD W/PAD300-6DB	HEAT DETECTOR WITH 6" STANDARD BASE	0.0003	0.0021	0.0003	0.002
	(S)	1	PAD300-PD W/PAD300-6DB	PHOTOELECTRIC SMOKE DETECTOR WITH 6" STANDARD BASE	0.0003	0.0003	0.0003	0.000
F1•N1	NAC	1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0.015	0.015	0.015	0.01
F1•N2	NAC	1	PSN-106	10A CONVENTIONAL POWER SUPPLY WITH 6 OUTPUTS	0.015	0.015	0.015	0.01
F1•N3	₩ _{WP}	1	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0	0	0.112	0.11
F1•N4	₩ _{WP}	6	HS-24WR-WP	OUTDOOR HORN STROBE, FIXED 75 CANDELA, STANDARD ENCLOSURE, RED 75CD	0	0	0.112	0.672
F1•DACT	CELL	1	INTELLICOM-5GV	5G LTE-M DUAL PATH COMMERCIAL FIRE ALARM COMMUNICATOR (VERIZON)	0	0	0	0
		•	-		TOTAL STANDBY (A)	0.17936	TOTAL ALARM (A)	1.06
					REQUIRED STANDE		24	
	OF OOM DADY OF	ANDDY LOAD (A)		0.47000	REQUIRED ALARM		5	
		ANDBY LOAD (A) LARM LOAD (A)		0.17936	24 0.08		4.3	
	STANDBY AND ALARM S	, ,	3)	1.06	0.08		4.39	00
		G FACTOR	<u> </u>	+			1.25	
	SECONDARY LOAD REQU		26/	1			5.49	

				PANEL F1•N1•01 EOL 5.1K	NI.			
				P1 (PSN-106) BATTERY CALCULATION ONDARY POWER SOURCE REQUIREM				
			(OLO	SNDART I GWER SOURCE REGUIREM	STANDBY C	NI IDDENT	SECONDARY AL	ADM CLIDDENIT
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A
PANEL CO	MPONENTS -	1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A
P1•N1	FLF	4	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.392
P1•N2	□ _{LF}	4	PE-LFHSW	LED LOW PROFILE HORN STROBE, LOW FREQUENCY, 177 CANDELA, WHITE 177CD	0	0	0.256	1.02
F I*NZ	¥	2	PE-STW	LED STROBE, 24 VDC, WHITE 15CD	0	0	0.022	0.044
	₽ E _{LF}	3	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.294
P1•N3	Ŭ _{LF}	3	PE-LFHSW	LED LOW PROFILE HORN STROBE, LOW FREQUENCY, 177 CANDELA, WHITE 177CD	0	0	0.256	0.7680
	举	2	PE-STW	LED STROBE, 24 VDC, WHITE 15CD	0	0	0.022	0.044
P1•N4	F _{LF}	8	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.7840
P1•N5	F _{LF}	8	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.7840
P1•N6	₽ E _{LF}	12	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	1.18
	LI.		L		TOTAL STANDBY (A)	0.075	TOTAL ALARM (A)	5.39
					REQUIRED STANDE		2	4
					REQUIRED ALARM		Ę	
	SECONDARY STA	` ,		0.075	24		1.8	
	SECONDARY AL			5.39	0.08		0.44	875
	STANDBY AND ALARM SI	<u> </u>)				2.25	
	DERATING SECONDARY LOAD REQU	FACTOR	(2)				1.25 2.81	
	SECONDAINT LOAD NEQU	II LIVILIVI O (AIVIF TIOUR	,	PROVIDE (2) 12V 7AH BATTERIES			2.01	

				P2 (PSN-106) BATTERY CALCULATION				
			(SEC	ONDARY POWER SOURCE REQUIREM	ENTS) STANDBY CU	IDDENT	OFCONDARY ALAI	DM CUDDENIT
		QTY	PART NO.	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	SECONDARY ALAI CURRENT DRAW (A)	TOTAL (A
PANEL CO	MPONENTS	1	PSN-106 MAIN BOARD	PSN-106 MAIN BOARD	0.075	0.075	0.075	0.075
CIRCUIT	SYMBOL	QTY	PART NO	DESCRIPTION	CURRENT DRAW (A)	TOTAL (A)	CURRENT DRAW (A)	TOTAL (A
P2•N1	E LF	4	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.392
DO NO	Ŭ _{LF}	4	PE-LFHSW	LED LOW PROFILE HORN STROBE, LOW FREQUENCY, 177 CANDELA, WHITE 177CD	0	0	0.256	1.02
P2•N2	举	2	PE-STW	LED STROBE, 24 VDC, WHITE 15CD	0	0	0.022	0.044
	F _{LF}	3	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.294
P2•N3	₩ _{LF}	3	PE-LFHSW	LED LOW PROFILE HORN STROBE, LOW FREQUENCY, 177 CANDELA, WHITE 177CD	0	0	0.256	0.7680
	举	2	PE-STW	LED STROBE, 24 VDC, WHITE 15CD	0	0	0.022	0.044
P2•N4	F _{LF}	8	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.7840
P2•N5	E _{LF}	8	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	0.7840
P2•N6	F _{LF}	12	PE-LFHNW	LOW PROFILE HORN, LOW FREQUENCY, WHITE	0	0	0.098	1.18
					TOTAL STANDBY (A)	0.075	TOTAL ALARM (A)	5.39
					REQUIRED STANDBY		24	
					REQUIRED ALARM T	IME (MINUTES)	5	
		ANDBY LOAD (A)		0.075	24		1.80	
	SECONDARY A STANDBY AND ALARM S	LARM LOAD (A)	2)	5.39	0.083		0.4487	75
		G FACTOR	ارد				2.25 1.25	

Battery Calculation Worksheet (current values will be expressed in mA)	6/16/2025				
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 Secti	on				
	Standby Ho	ours Required	24		
	Alarm Minu	utes Required	5		
	Total System	Standby mA	68		
	Total Syste	em Alarm mA	140		
Standby Hours * (Total Standby mA * .001)	= Total Systen	n Standby AH	1.63		
Alarm Minutes * .0167 * (Total Alarm mA *	.001) = <i>Total</i> Syst	em Alarm AH	0.01		
Total Standby AH + Total Alarm AH	= Tot	al System AH	1.64		
Total System AH * 1.25	i = Minimum	Required AH	2.05		

									LUMP SUM REF	PORT 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 LENGTH (FT)	TOTAL CIRCUIT RESISTANCE (Ω)	STARTING CALCULATION VOLTAGE	MIN. OPERATIONAL VOLTAGE	MAX. VOLTAGE DROP	END OF LINE VOLTAGE	VOLTAGE DRO
	N1						3	0.015	2.99	99.50 %	14	2.60	3	0.013	20.40	16	0	20.40	0.00 %
F1 (IPA-4000)	N2	IPA-4000 MAIN	10	0.817360	9.18	91.83 %	3	0.015	2.99	99.50 %	14	2.60	4	0.0195	20.40	16	0	20.40	0.00 %
F1 (IFA-4000)	N3	BOARD	10	0.017300	9.10	91.63 %	3	0.112	2.89	96.27 %	14	2.60	53	0.277853	20.40	16	0.03	20.37	0.15 %
	N4	1					3	0.6720	2.33	77.60 %	14	2.60	435	2.26	20.40	16	1.52	18.88	7.45 %
	N1						3	0.392	2.61	86.93 %	14	2.60	111	0.577	20.40	16	0.23	20.17	1.11 %
	N2	1					3	1.07	1.93	64.40 %	14	2.60	79	0.410165	20.40	16	0.44	19.96	2.15 %
P1 (PSN-106)	N3	PSN-106 MAIN	10	F 24	4.69	46.00.0/	3	1.11	1.89	63.13 %	14	2.60	224	1.16	20.40	16	1.29	19.11	6.31 %
F1 (F3N-100)	N4	BOARD	10	5.31	4.09	46.90 %	3	0.7840	2.22	73.87 %	14	2.60	291	1.51	20.40	16	1.19	19.21	5.81 %
	N5	1					3	0.7840	2.22	73.87 %	14	2.60	297	1.54	20.40	16	1.21	19.19	5.93 %
	N6						3	1.18	1.82	60.80 %	14	2.60	398	2.07	20.40	16	2.44	17.96	11.94 %
	N1						3	0.392	2.61	86.93 %	14	2.60	223	1.16	20.40	16	0.45	19.95	2.23 %
	N2						3	1.07	1.93	64.40 %	14	2.60	159	0.828	20.40	16	0.880	19.52	4.34 %
P2 (PSN-106)	N3	PSN-106 MAIN	10	F 24	4.69	46.00.0/	3	1.11	1.89	63.13 %	14	2.60	279	1.45	20.40	16	1.61	18.79	7.87 %
F2 (F3N-100)	N4	BOARD	10	5.31	4.09	46.90 %	3	0.7840	2.22	73.87 %	14	2.60	303	1.57	20.40	16	1.23	19.17	6.05 %
	N5	1					3	0.7840	2.22	73.87 %	14	2.60	337	1.75	20.40	16	1.37	19.03	6.73 %
	N6	1					3	1.18	1.82	60.80 %	14	2.60	447	2.32	20.40	16	2.73	17.67	13.39 %
ALCULATION ME	THODS:	SISTANCE (Ω/FT) X	(AVTOTAL CIDOL				3	1.18	1.82	60.80 %	14	2.60	447	2.32	20.40	16	2.73	17.67	

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



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

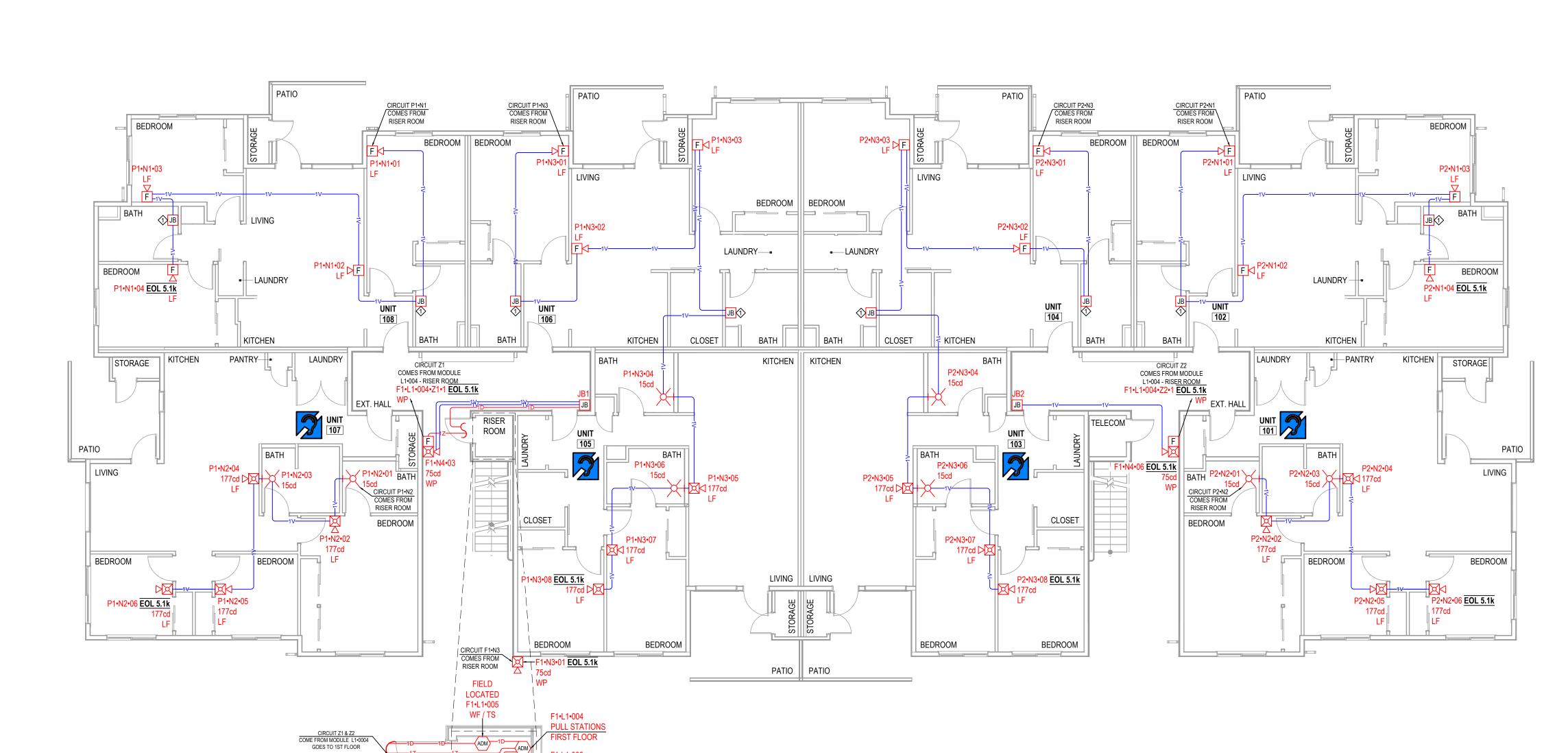
REVISION	N:	
	FIRST RELEASE	

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
PROJECT CALCULATIONS

DRAWN BY: JEM SYSTEMS

DATE: 06.16.2025

SCALE: SEE DRAWINGS



CIRCUIT Z1 & Z2

COME FROM MODULE L1•0003

GOES TO 2ND FLOOR

CIRCUIT Z1 & Z2

COME FROM MODULE L1•0002

GOES TO 3RD FLOOR

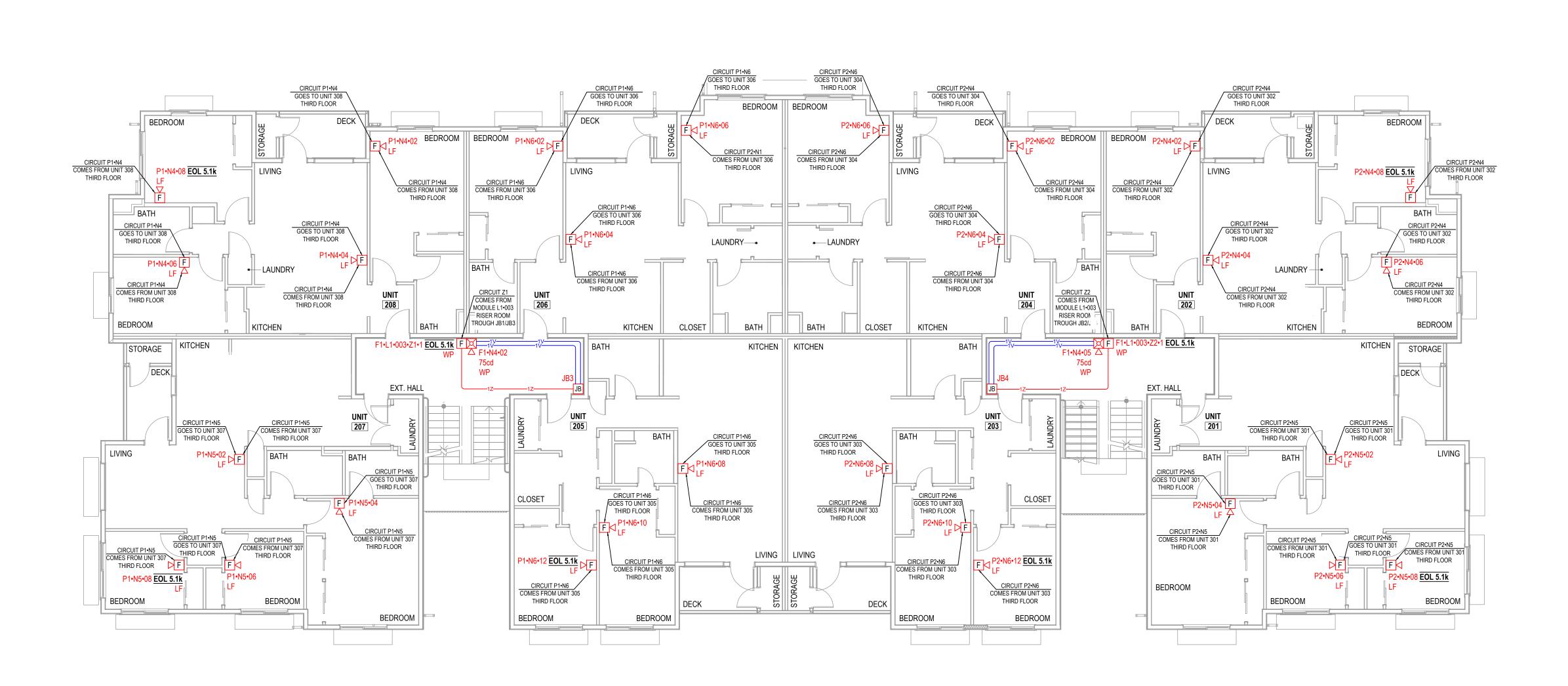
F1•N1•01 EOL 5.1k
RISER ROOM DETAIL

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

FIRST FLOOR PLAN

SECOND FLOOR PLAN

0 1' 5' 10' 15'



City of P Development & Pe	ermitting Services
Building	Planning
Engineering	Public Works
Fire OF W	Traffic

	EQUIPMENT LIST
SYMBOL	DESCRIPTION
FACU	FIRE ALARM CONTROL PANEL
DOC	FIRE ALARM DOCUMENT CABINET
NAC	10A CONVENTIONAL POWER SUPPLY
CELL	COMMUNICATOR
(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
F _{LF}	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.

	ABREVIATIONS
WF	WATERFLOW
TS	TAMPER SWITCH

KEY NOTES

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)

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

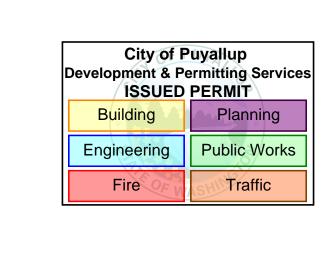
NFPA 72 - TABLE A.18.4.4 AVERAGE AMBIENT SOUND LEVEL ACCORDING TO	O LOCATION
LOCATION	SOUND LEVEL (dBA)
1. BUSINESS OCCUPANCIES	54
2. EDUCATIONAL OCCUPANCIES	45
3. INDUSTRIAL OCCUPANCIES	88
4. INSTITUTIONAL OCCUPANCIES	50
5. MERCANTILE OCCUPANCIES	40
6. MECHANICAL ROOMS	91
7. PIERS AND WATER SURROUNDED 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

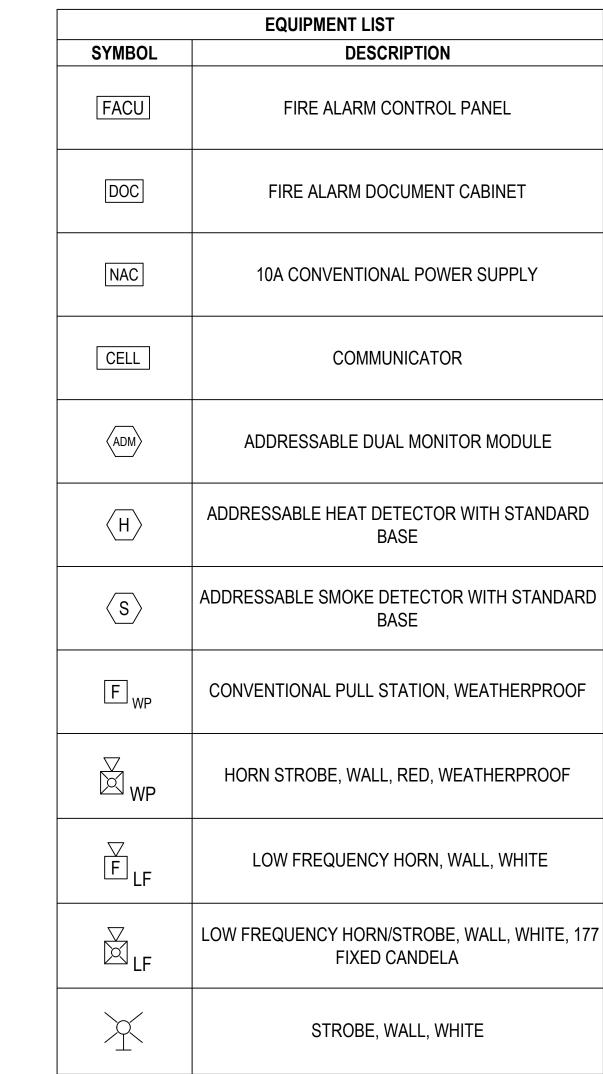
REVISION:
FIRST RELEASE
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Jeremey Locken, ET provey Loller NICET Level III Fire Alarm Certification #: 95603 Expires 07/2027

SHEET DESCRIPTION: FIRE ALARM SYSTEM FIRST & SECOND FLOOR PLANS

DRAWN BY: JEM SYSTEMS 06.16.2025 SEE DRAWINGS





		CABLE AND WIRE LEGEND
LABEL	AWG	DESCRIPTION
D	16	SLC - 2 COND. SOLID COPPER FPLP ADDRESSABLE UNSHIELDED
Е	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

JUNCTION BOX

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JB

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 LEVEL (dBA)		
1. BUSINESS OCCUPANCIES	54		
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14. TOWER OCCUPANCIES	35		
15. UNDERGROUND STRUCTURES AND	40		

REVISION:
FIRST RELEASE
\triangle

Jeremey Locken, ET Jeroney Loven

Certification #: 95603

Expires 07/2027

NICET Level III Fire Alarm

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
THIRD FLOOR &
ROOF PLANS

DRAWN BY: JEM SYSTEMS

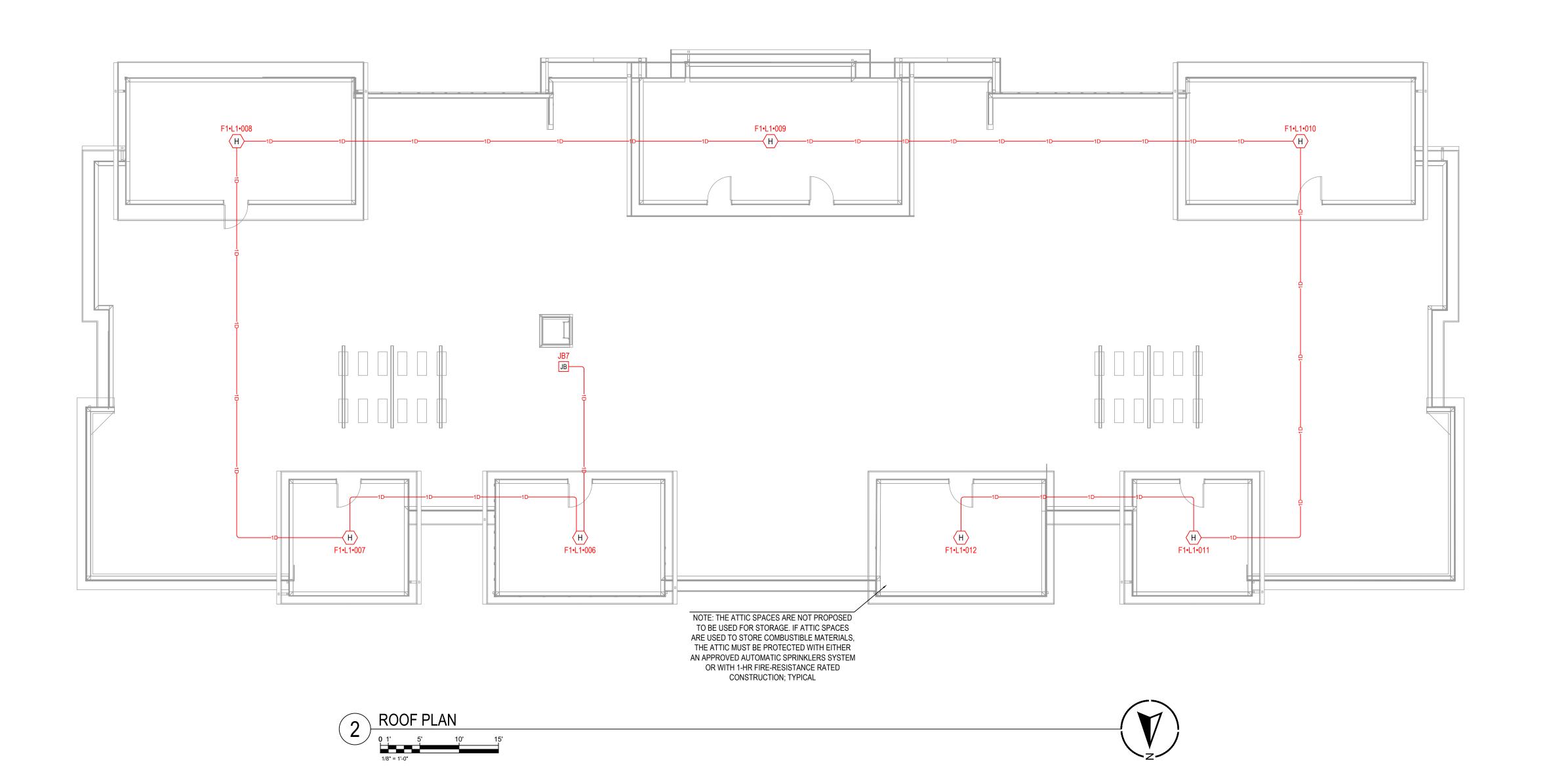
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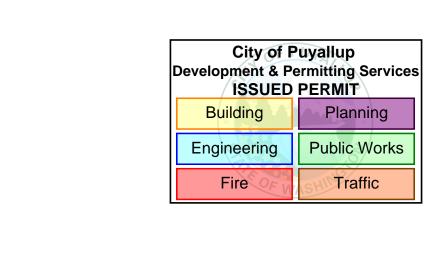
SCALE: SEE DRAWINGS

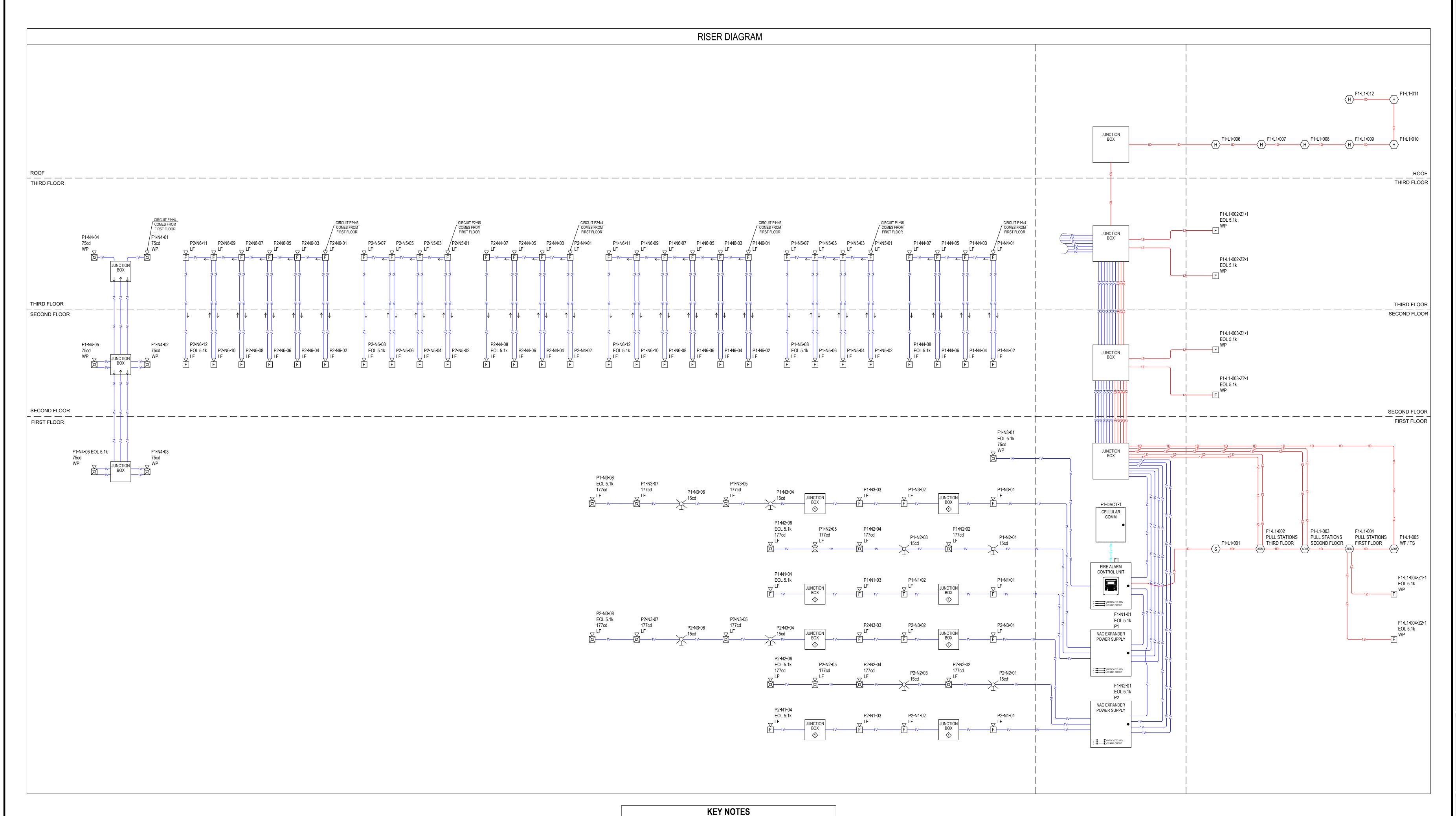
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BEDROOM KITCHEN BATH STORAGE KITCHEN F1•L1•002•Z1•1 EOL 5.1k F	KITCHEN CLOSET BATH KITCHEN	N KITCHEN BATH CLOSET KITCHEN	BATH
CIRCUIT P1-N5 GOES TO UNIT 207 SECOND FLOOR ROOMES FROM RISER ROOM FIRST FLOOR CIRCUIT P1-N5 GOES TO UNIT 207 SECOND FLOOR CIRCUIT P1-N5 GOES TO UNIT 207 SECOND FLOOR COMES FROM UNIT 207 SECOND FLOOR SECOND FLO	UNIT 305 BATH CIRCUIT P1-N6 GOES TO UNIT 205 SECOND FLOOR P1-N6-07 LF CIRCUIT P1-N6 COMES FROM UNIT 205 SECOND FLOOR CIRCUIT P1-N6 COMES FROM UNIT 205 SECOND FLOOR CIRCUIT P1-N6 COMES FROM UNIT 205 SECOND FLOOR DECAMAR SECOND	CIRCUIT P2-N6 GOES TO UNIT 203 SECOND FLOOR CIRCUIT P2-N6 COMES FROM UNIT 203 SECOND FLOOR P2-N6-09 P2-N6-09 P2-N6-09	WP EXT. HALL UNIT CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR BATH BATH CIRCUIT P2-N5 COMES FROM INSER ROOM FIRST FLOOR CIRCUIT P2-N5 COMES FROM INSER ROOM FIRST FLOOR CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR DECK LIVING CIRCUIT P2-N5 COMES FROM INSER ROOM FIRST FLOOR CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR DECK LIVING CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR DECK CIRCUIT P2-N5 CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR DECK DECK LIVING LIVING LIVING CIRCUIT P2-N5 COMES FROM UNIT 201 SECOND FLOOR DECK DECK LIVING LIVING LIVING DECK LIVING LIVING LIVING DECK LIVING DECK LIVING LIVING DECK LIVING DECK LIVING LIVING DECK DECK LIVING LIVING DECK LIVING LIVING LIVING DECK LIVING DECK LIVING DECK LIVING LIVING DECK LIVING DECK LIVING DECK LIVING LIVING DECK LIVING DECK LIVING DECK LIVING DECK LIVING DECK LIVING D











JUNCTION BOXES IN BATHROOMS ARE FOR FUTURE ADA ADAPTABILITY.

MAX POWER
FIRE SYSTEM INSTALLATION

NICET Level III Fire Alarm Certification #: 95603

Expires 07/2027

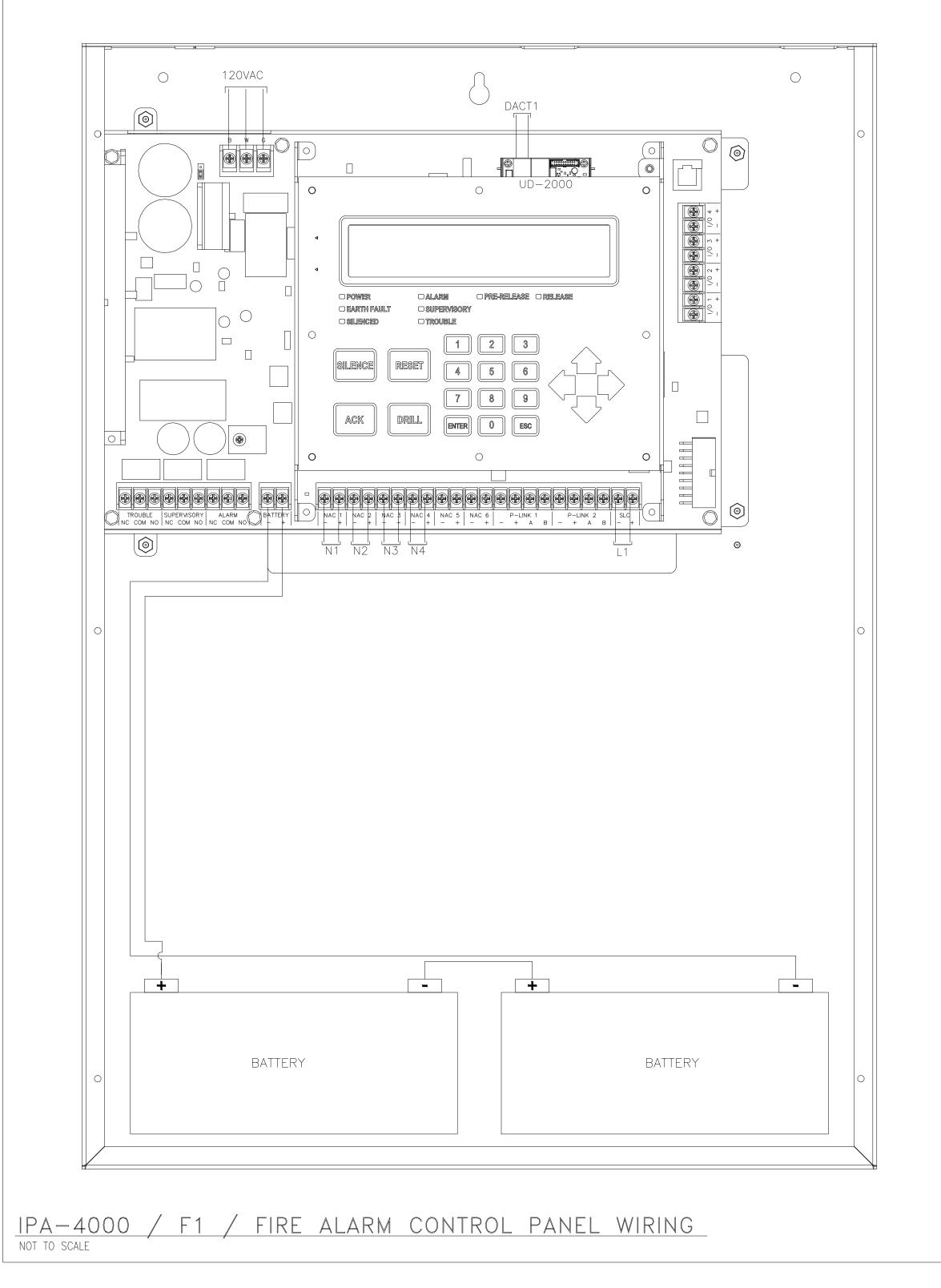
REVISION:
FIRST RELEASE

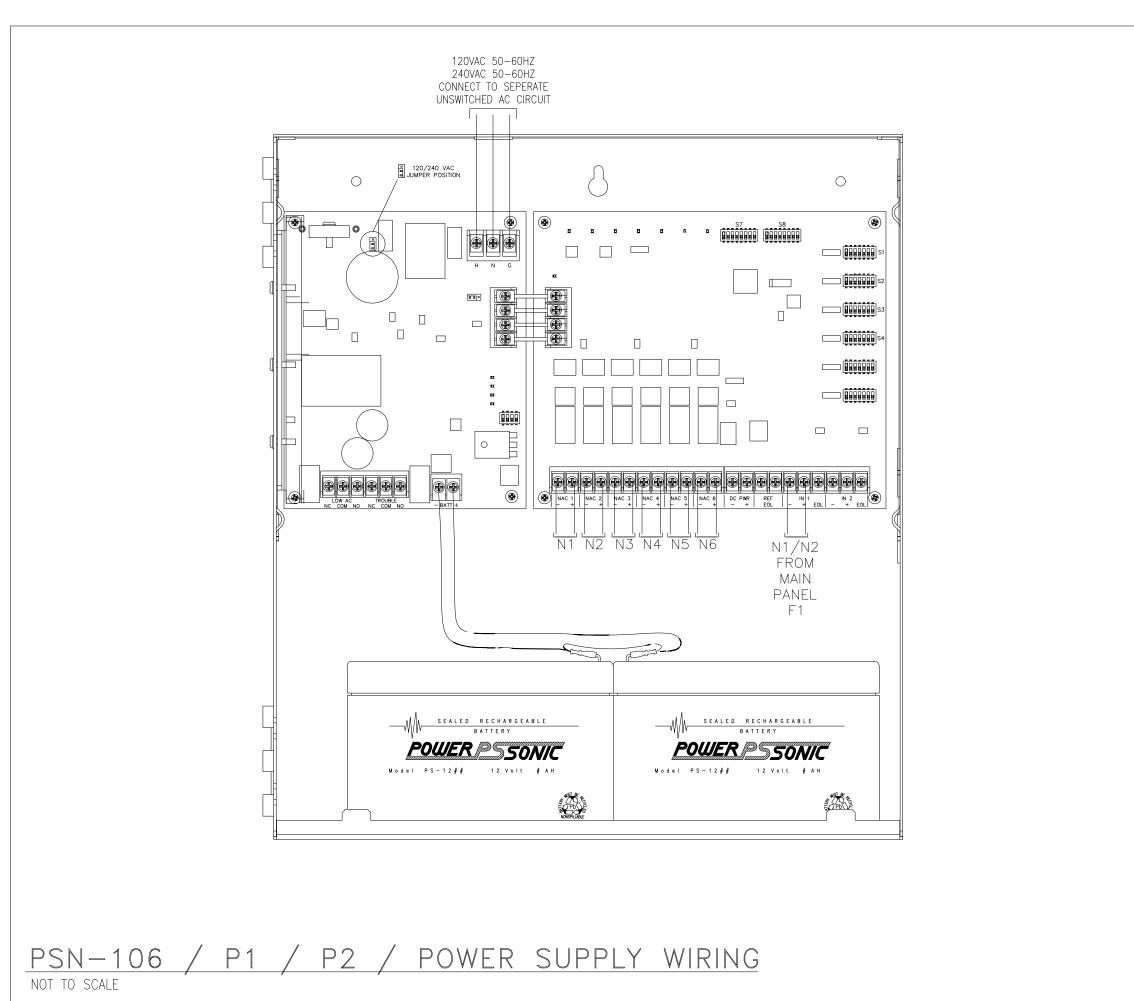
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FIRE ALARM SYSTEM
RISER DIAGRAM

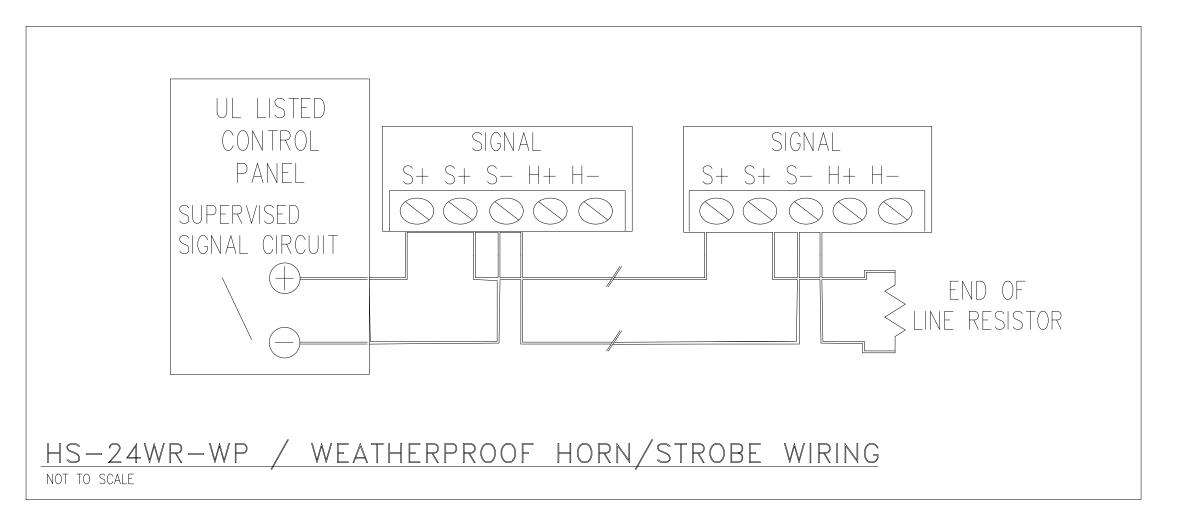
DRAWN BY: JEM SYSTEMS

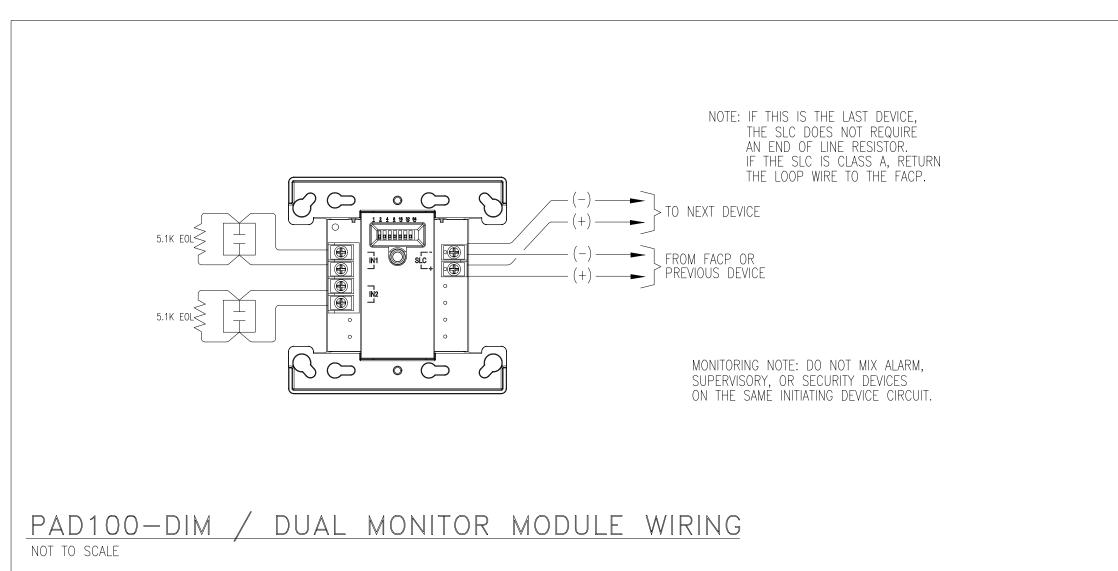
DATE: 06.16.2025

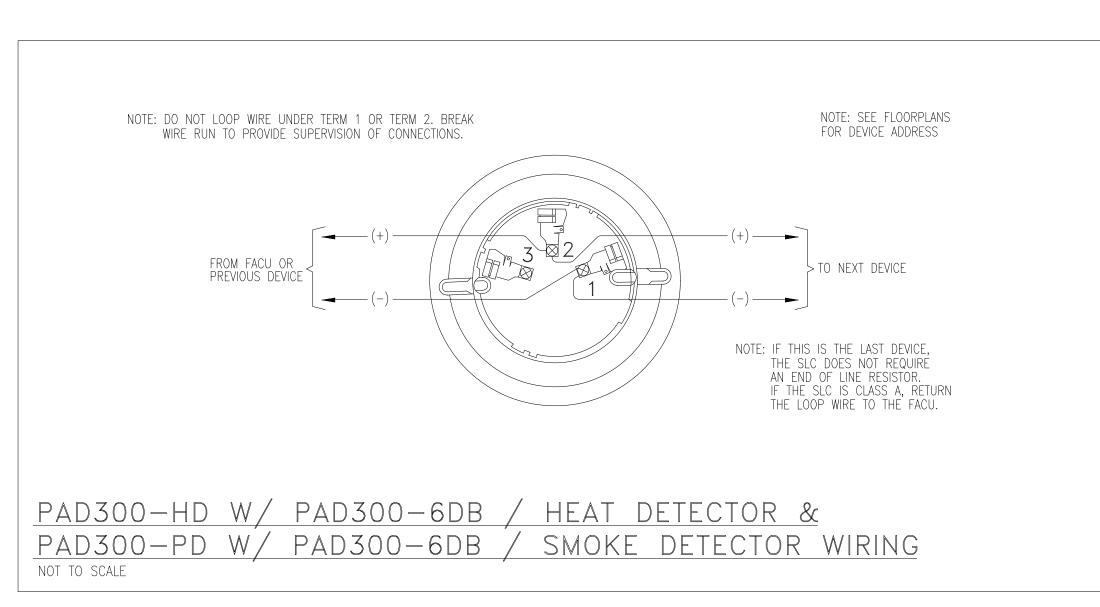
SCALE: SEE DRAWINGS

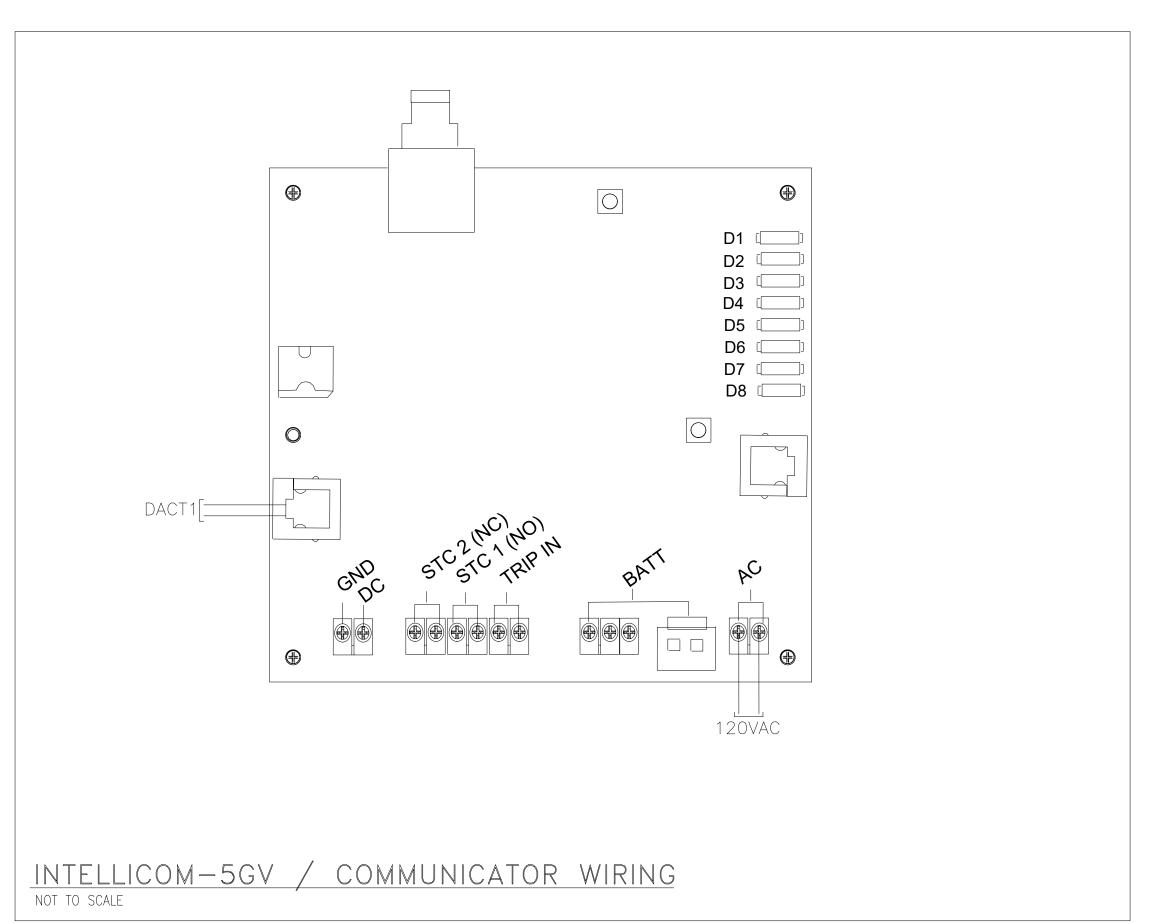


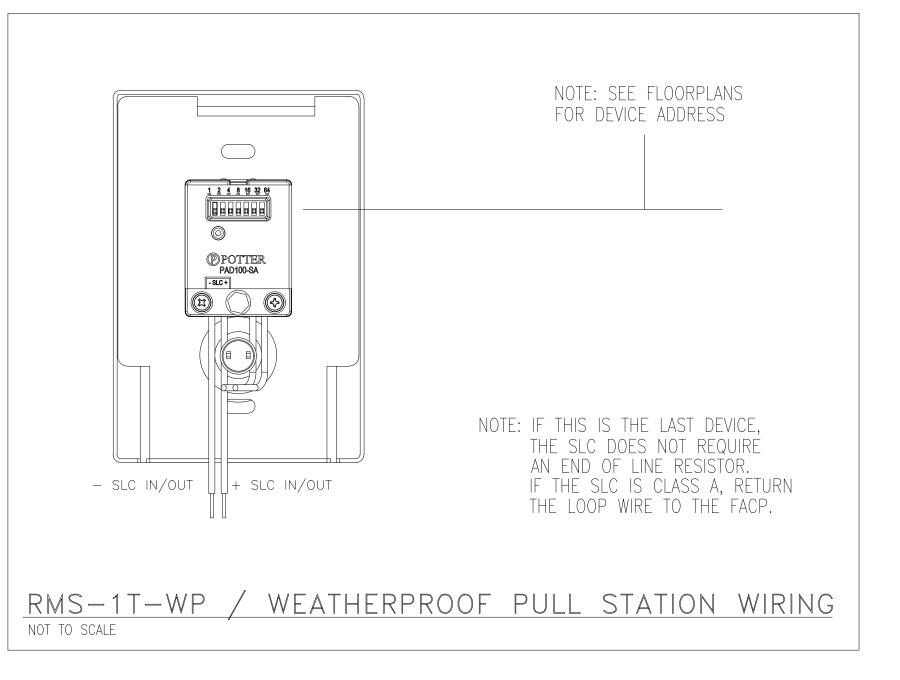


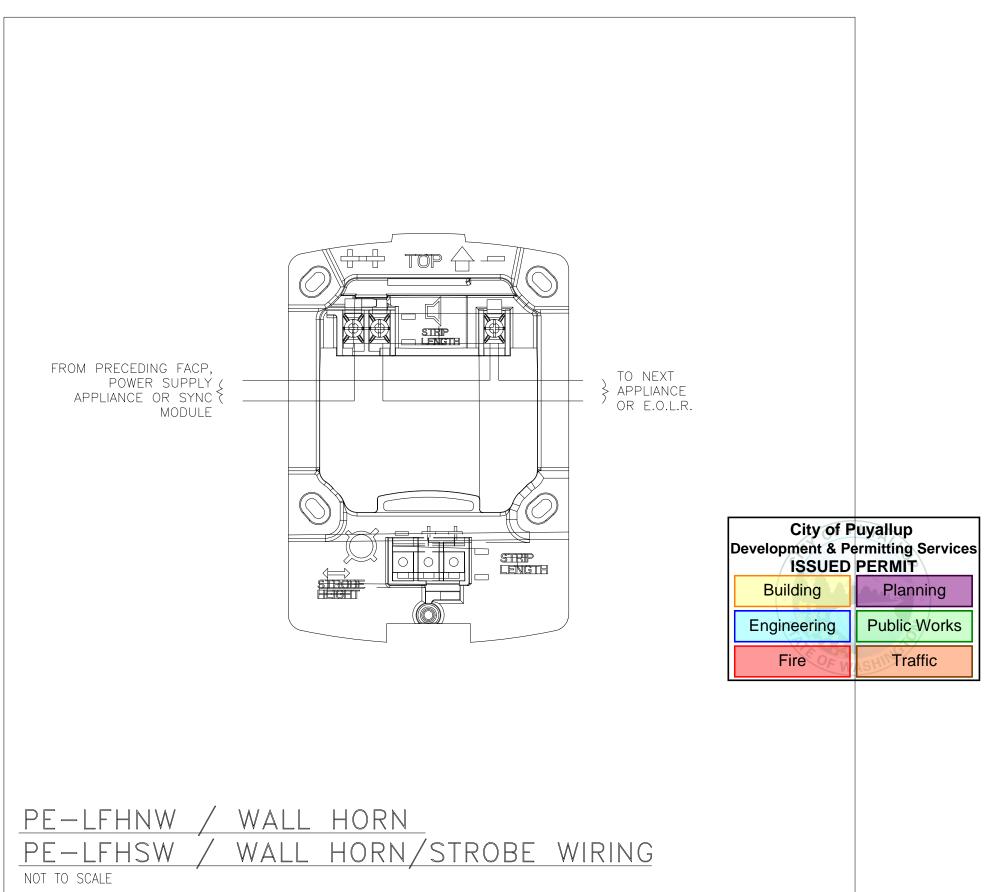


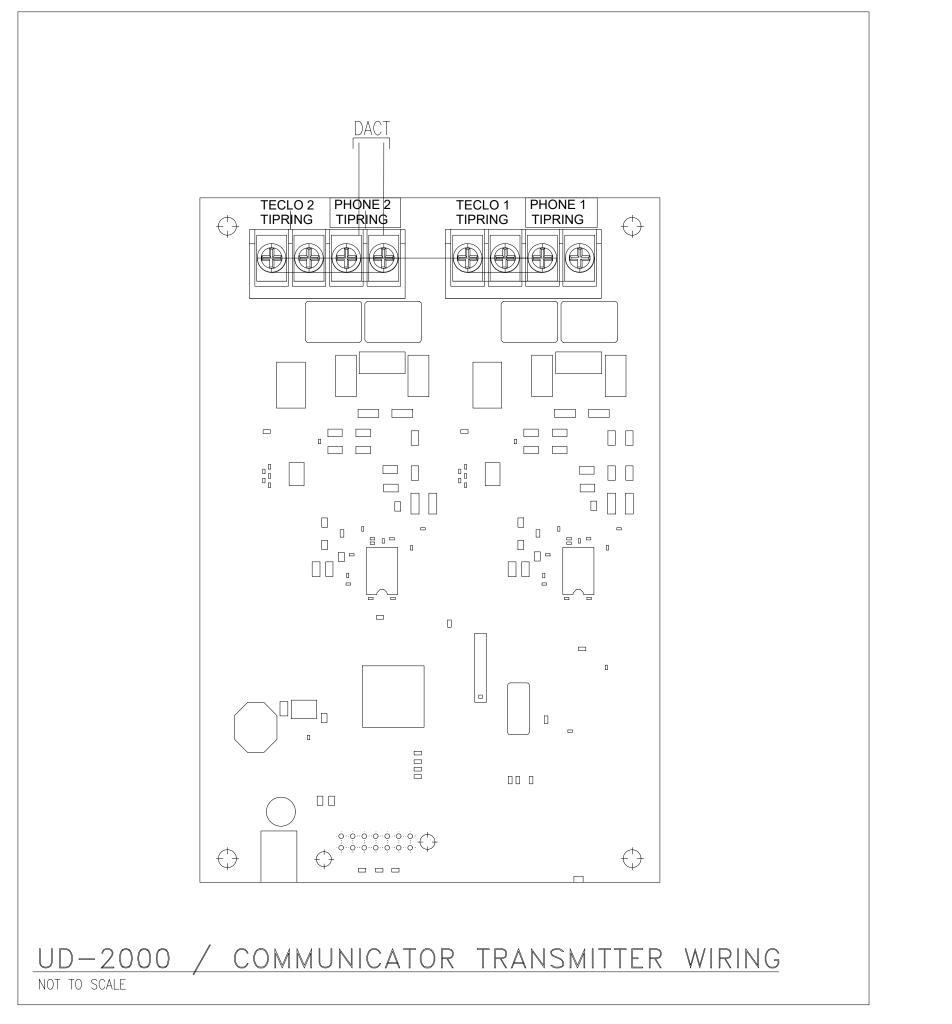
















EAST TOWN CROSSING BUILDING
SHAW RD. E. & PIONEER WY. E.

REVISION:
FIRST RELEASE

SHEET DESCRIPTION:
FIRE ALARM SYSTEM
WIRING DIAGRAMS

DRAWN BY: JEM SYSTEMS

DATE: 06.16.2025

SCALE: SEE DRAWINGS