

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.

convergint

CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES

1023 39TH AVE SE, PUYALLUP, WA, 98374

	SY	MBOL L	EGEND	
SYM	DESCRIPTION	MODEL#	MANUFACTURER	BACK BOX
APS×x	POWER SUPPLY - 10A SIGA-CT1 MODULE	APS10A	EST	INCLUDED - 26"H X 15"W X 5.3"D
UIOxx 6R	UNIVERSAL INPUT/OUTPUT MODULE MOTHERBOARD	UIO	EST	MOUNTED IN TERMINAL CABINET
REL	RELEASING END OF LINE MODULE	RELA-EOL	EST	1-GANG
(AOM)	CONTROL RELAY MODULE HIGH VOLTAGE	SIGA-CRH	EST	4" SQUARE BOX, 1-1/2" DEEP, DOUBLE GANG COVER
AIM 2	DUAL INPUT MODULE	SIGA-CT2	EST	4" SQUARE BOX, 1-1/2" DEEP, SINGLE GANG COVER
REL	RELEASING MODULE	SIGA-REL	EST	MOUNTED IN TERMINAL CABINET
SD	SERVICE DISCONNECT	RELA-SRV-01	EST	-
LA	LOW AIR SWITCH	BY OTHERS	BY OTHERS	-
sov	SOLENOID VALVE	BY OTHERS	BY OTHERS	-
vs	TAMPER SWITCH	BY OTHERS	BY OTHERS	-
WF	WATER FLOW SWITCH	BY OTHERS	BY OTHERS	-
ASD EA1-F	XTRALIS AIR SAMPLING DETECTOR (VESDA) 1 PIPE, FIXED SPEED	VEP-A00-1P	XTRALIS	INCLUDED - 8.9"H X 13.8"W X 5.3"D
ASD EP4	XTRALIS AIR SAMPLING DETECTOR (VESDA) 4 PIPES	VEP-A10-P	XTRALIS	INCLUDED - 8.9"H X 13.8"W X 5.3"D
ASD EU-L	XTRALIS AIR SAMPLING DETECTOR (VESDA) 4 PIPES, LCD DISPLAY	VEU-A10	XTRALIS	INCLUDED - 8.9"H X 13.8"W X 5.3"D
3	EXISTING SMOKE DETECTOR	EXISTING	-	-
VLPXX	EXISTING XTRALIS VLP-500	EXISTING	-	-
NACXX	EXISTING NAC BPS6A	EXISTING	-	-

SCOPE OF WORK

THIS SCOPE OF WORK INCLUDES: NEW VESDA ASPIRATING SMOKE DETECTORS TO SUPPORT PRE-ACTION RELEASING FOR NEW BATTERY AND UPS ROOMS, AS WELL AS NEW DETECTION FOR NEW EXHAUST FAN WALLS. NEW VESDA TIED INTO EXISTING EST3 SYSTEM SUPPORTING TENANT / DATAHALL EQUIPMENT. THIS BUILDING HAS A HOUSE PANEL THAT PERFORMS NOTIFICATION AND CENTRAL STATION COMMUNICATIONS AS WELL AS ANY INITIATING & EMERGENCY CONTROL DEVICES ASSOCIATED WITH THE BUILDING SHELL SUCH AS ELEVATOR RECALL. CHANGES TO THE HOUSE SYSTEM ARE BY OTHERS, UNDER SEPARATE PERMIT.

DESIGN CRITERIA APPLICABLE STANDARDS AND GUIDANCE NFPA 72, 2019 EDITION 2021 INTERNATIONAL BUILDING CODES 2021 MECHANICAL CODE

2023 NATIONAL ELECTRICAL CODE S-2 - STORAGE

DOCUMENTATION AVAILABLE TO CONVERGINT TECHNOLOGIES CENTERIS VOLTAGE PARK_UPS_MECH PERMIT_20240222

CONTACT INFORMATION

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GENERAL NOTES

THE FOLLOWING NOTES ARE INTENDED TO BE GENERAL IN NATURE AND ARE NOT SPECIFIC TO EACH PROJECT. THESE NOTES ARE TO BE FOLLOWED WHERE APPLICABLE TO INDIVIDUAL PROJECTS AND SHOULD NOT BE TAKEN AS SCOPE OR DIRECTION WHERE THEY CONFLICT WITH INFORMATION FOUND ELSEWHERE IN THIS DRAWING SET.

1. ALL WIRE AND CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH PLANS AND SPECIFICATIONS AND SHALL MEET ALL APPLICABLE CODES.

- ALL WIRE AND CABLE SHALL BE RATED FOR FIRE ALARM USE PER THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE (NEC) SECTION 760. THIS IS A POWER LIMITED FIRE ALARM SYSTEM. ALL CABLE MUST BE MARKED FPL, FPLP, FPLR OR CI. FURTHER NEC, REQUIRES ALL WIRE BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED. ANY REFERENCES TO WIRE DESIGNATIONS ASSUME ELECTRICAL CONTRACTOR WILL SUBSTITUTE APPROPRIATE WIRE TO MEET CODE.
- ALL CONDUCTORS SHALL TEST FREE OF GROUNDS AND SHORTS BEFORE MAKING ANY CONNECTION TO THE FIRE ALARM CONTROL PANEL.
- 4. TO RETAIN WARRANTY, THE FIRE ALARM EQUIPMENT MUST BE POWERED UP UNDER THE SUPERVISION OF A QUALIFIED MANUFACTURERS TECHNICIAN.
- 5. THE INSTALLING ELECTRICAL CONTRACTOR SHALL COORDINATE ALL FIELD CHANGES WITH THE FIRE ALARM CONTRACTOR. THIS INCLUDES CHANGES IN DEVICES, WIRE, CONDUIT RUNS AND OPERATION OF THE SYSTEM. FIRE ALARM CONTRACTOR SHALL NOT BE HELD RESPONSIBLE FOR UNDOCUMENTED CHANGES OR THE RESULTS OF THOSE CHANGES.
- . FIRE ALARM NOTIFICATION DEVICES SHALL BE AUDIBLE THROUGHOUT THE SPACE AND SHALL HAVE A SOUND PRESSURE LEVEL NOT LESS THAN 15db ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5db ABOVE THE MAXIMUM SOUND LEVEL, MEASURED AT 5'0" ABOVE THE FINISHED
- MAIN BUILDING FIRE ALARM & SUPPRESSION SYSTEMS SHALL BE CLASS "B" WIRING. PRE-ACTION & DELUGE ALARM SYSTEMS SHALL BE CLASS "A" WIRING. CLASS "A" APPLICATIONS SHALL MAINTAIN A MINIMUM SEPARATION OF 48 INCHES HORIZONTALLY & 12 INCHES VERTICALLY BETWEEN OUTGOING AND RETURN CIRCUITS.
- 8. ALL PULL STATIONS AND NOTIFICATION DEVICES SHALL BE MOUNTED AT HEIGHTS SPECIFIED PER NFPA 72 AND ADA REQUIREMENTS.
- 9. ALL DETECTOR SPACING SHALL BE PER NFPA 72 & LOCAL CODES.
- 10. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ROUGH-IN LOCATIONS WITH OTHER
- 11. ALL FIRE ALARM DEVICES SHALL BE SECURELY FASTENED TO WALLS OR CEILINGS. 12. SMOKE DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO ANY AIR REGISTER OR
- 13. HEAT DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO ANY AIR REGISTER OR
- 14. PER NFPA 72, CHAPTER 17; SMOKE DETECTORS INSTALLED PRIOR TO FINAL CLEAN MUST BE CLEANED AND VERIFIED TO BE OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF THE SYSTEM. CONVERGINT BEARS NO RESPONSIBILITY FOR LABOR OR MATERIAL ASSOCIATED WITH CLEANING, SENSITIVITY TESTING OR REPLACEMENT OF SMOKE DETECTORS INSTALLED PRIOR TO FINAL CLEANING.
- 15. HEAT DETECTORS SHALL NOT BE LOCATED CLOSER THAN 36" TO ANY HEAT GENERATING DEVICE (FUSES, BOILERS, WATER HEATERS, ETC.) IN MECHANICAL ROOMS.
- 16. HEAT DETECTORS SHALL NOT BE LOCATED CLOSER THAN 18" TO ANY PART OF ANY LIGHT
- 17. HEAT DETECTORS SHALL BE MOUNTED WITHIN 24" OF A SPRINKLER HEAD WHEN USED FOR ELEVATOR SHUNT TRIP IN ELEVATOR MACHINE ROOMS & SHAFTS.
- 18. INITIATING AND SIGNALING CIRCUITS MAY BE RUN IN SAME CONDUIT
- 19. ALL CONDUCTORS SHALL BE LABELED BY ZONE OR SLC LOOP NUMBER.
- 20. THESE DRAWINGS ARE INTENDED TO SHOW PROJECT SPECIFIC PANELS, DEVICES AND WIRING DEPICTED DIAGRAMMATICALLY. WIRING SHOWN IS NOT INTENDED TO DEPICT RACEWAY OR PATHWAY LOCATIONS. DEVICE AND PANEL LOCATIONS SHALL BE COORDINATED BY INSTALLING CONTRACTOR AS PART OF THE CONSTRUCTION PROCESS.
- 21. ALL REFERENCES TO INTERNATIONAL BUILDING CODE (IBC) ARE FROM THE 2015 EDITION. ALL REFERENCES TO NFPA 72 ARE FROM THE 2013 EDITION AS CURRENTLY ADOPTED BY IBC. THE ADOPTED VERSION FOR THE PROJECT JURISDICTION MAY BE DIFFERENT AND UPON REQUEST CONVERGINT WILL PROVIDE UPDATED REFERENCE SECTIONS TO MATCH ADOPTED VERSION. THE SCOPE SECTION OF OUR DRAWINGS WILL PROVIDE THE VERSION REFERENCED FOR THE FIRE ALARM DESIGN.
- 22. AS THE FIRE ALARM VENDOR UTILIZED FOR THIS BUILDING, NFPA 72 REQUIRES WE KEEP ACCURATE RECORD DRAWING INFORMATION. AS SUCH, IT IS NECESSARY THAT WE DEPICT EXISTING DEVICES AND WIRING IN ADDITION TO THOSE COMPONENTS ASSOCIATED WITH YOUR SCOPE WHERE APPLICABLE. UNLESS OTHERWISE NOTED, IT IS ASSUMED EXISTING COMPONENTS WILL REMAIN UN-DISTURBED BY YOUR SCOPE OF WORK. TO AID IN IDENTIFYING NEW VS. EXISTING, WE WILL TURN EXISTING COMPONENTS TO A LIGHTER SHADE. REMOVAL OF THE EXISTING DEVICES AND WIRING MAY OTHERWISE IMPACT THE CONTEXT OF THE COMPLETE, CODE REQUIRED FIRE ALARM SYSTEM, THEREFORE THEY CANNOT BE OMITTED FROM OUR DRAWING PACKAGE.

WIRE LEGEND

ALL WIRING AND INSTALLATION METHODS SHALL BE IN COMPLIANCE WITH CURRENT RELEVANT NATIONAL AND LOCAL ELECTRICAL CODE ARTICLES AND RELATED SECTION CODE REQUIREMENTS

WIRING INSTALLATION NOTES:

INFORMATION.

W | SINGLE MODE FIBER NETWORK

X | MULTIMODE FIBER NETWORK

TWO-WAY COMMUNICATIONS

CAT5E - (4) PAIR 22 AWG

2 COND. 14 AWG

50/125μ,62.5/125μ OR 100/140μ MM

FIRE/SMOKE DAMPER INTERFACE

RESISTANCE VALUES ARE PER 1000 FEET.

* LABEL ALL ZONE WIRES WITH ZONE NUMBER TAG AND DESCRIPTION. * LABEL ALL SIGNAL CIRCUIT WIRES WITH SIGNAL CIRCUIT NUMBER TAG AND DESCRIPTION.

TAG AND DESCRIPTION. * VERIFY WITH OWNER AND GENERAL CONTRACTOR THAT OPEN CABLE IS ALLOWED ON SPECIFIC SITE. (FPL, FPLP, RISER, OR 2 HOUR RATED) * WHERE REQUIRED, OUR DRAWINGS WILL NOTE WIRE OR PATHWAY REQUIRING SURVIVABILITY. SUBSTITUTE THE RELEVANT CABLE WITH AN EQUIVALENT CABLE COMPATIBLE WITH THE MEANS OF SURVIVABILITY. THIS OFTEN INCLUDES; CI-C OR CI CABLE (CIRCUIT INTEGRITY), CONCRETE

ENCASEMENT OR OTHER MEANS AS APPROVED BY THE AHJ. REFER TO NFPA 72 FOR FURTHER

С	IRCUIT DESCRIPTION	NON PLENUM: (FPLR, FPL)	SINGLE COND.: (THHN, TFFN)	PLENUM RATED: (FPLP)
Α	ZONE/INPUT CIRCUIT 2 COND. 16 AWG	BELDEN 5220UL [3.85Ω] [24pF/FT]	(2) #16 AWG	BELDEN 6220UL [3.85Ω] [37pF/FT]
С	NAC CIRCUIT 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
D	MASS. NOTIFICATION NAC CIRCUIT 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
Е	DOOR HOLDER/CONTROL CIRCUIT 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
F	FAN/HVAC SHUTDOWN 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
G	FUTURE ADA NAC CIRCUIT 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
Н	PHONE CIRCUIT 2 COND. 16 AWG SHIELDED	BELDEN 5220FL [3.9Ω] [65.5pF/FT]	N/A	BELDEN 6220FL [3.85Ω] [77pF/FT]
J	SPEAKER CIRCUIT 2 COND. 16 AWG	BELDEN 5220UL [3.85Ω] [24pF/FT]	(2) #16 AWG	BELDEN 6220UL [3.85Ω] [37pF/FT]
L	ELEVATOR CONTROL 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
М	AUDIO RISER 2 COND. 16 AWG SHIELDED	BELDEN 5220FL [3.9Ω] [65.5pF/FT]	N/A	BELDEN 6220FL [3.85Ω] [77pF/FT]
N	NETWORK COMMUNICATIONS 2 COND. 16 AWG	BELDEN 5220UL [3.85Ω] [24pF/FT]	(2) #16 AWG	BELDEN 6220UL [3.85Ω] [37pF/FT]
Р	24VDC AUX. POWER 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]
Q	VESDA NET 2 COND. 22 AWG	BELDEN 9841 [24Ω] [12.8pF/FT]	N/A	BELDEN 89841 [24Ω] [12pF/FT]
R	REMOTE LED CIRCUIT 2 COND. 16 AWG	BELDEN 5220UL [3.85Ω] [24pF/FT]	(2) #16 AWG	BELDEN 6220UL [3.85Ω] [37pF/FT]
S	ADDRESSABLE DATA SLC LOOP 2 COND. 16 AWG	BELDEN 5220UL [3.85Ω] [24pF/FT]	(2) #16 AWG	BELDEN 6220UL [3.85Ω] [37pF/FT]
T1	ANALOG TWO-WAY COMM. CABLE 2 COND. 18 AWG	N/A	N/A	RATH RP66010001 [2-HOUR CIC]
T2	ANALOG TWO-WAY COMM. CABLE 2 COND. 18 AWG	RATH 66120 [2-HOUR]	N/A	N/A
TP	ANALOG TWO-WAY POWER CABLE 2 COND. 18 AWG	N/A	N/A	RATH R66010001 [2-HOUR CIC]
U	SUPPRESSION RELEASING CIRCUIT 2 COND. 14 AWG	BELDEN 5120UL [2.43Ω] [23pF/FT]	(2) #14 AWG	BELDEN 6120UL [2.43Ω] [37pF/FT]

	Sheet List Table
Sheet Number	Sheet Title
FA-0-1	COVER SHEET
FA-0-2	NOTES
FA-1-1	OVERALL 1ST FLOOR PLAN
FA-1-1.1	1ST FLOOR AREA OF WORK
FA-1-2	OVERALL 2ND FLOOR PLAN
FA-2-1	TYPICAL RISER
FA-3-1	EXISTING FIRE PANEL DETAILS
FA-4-1	DEVICE DETAILS
FA-4-2	DEVICE DETAILS
FA-5-1	CALCULATIONS
FA-6-0	VESDA DETAILS
FA-6-1	OVERALL VESDA LAYOUT
FA-6-2	TYPICAL FAN WALL LAYOUT
FA-6-3	ASD BATT-1 & UPS-1

BUDGET SMXLO2/SMXHI2: 15/25 dBm

N/A

BELDEN 1585A

[2.43Ω] [37pF/FT]

(2) #14 AWG | BELDEN 6120UL

CONNECTOR: DUPLEX SC

BUDGET MMXVR: 10 dBm

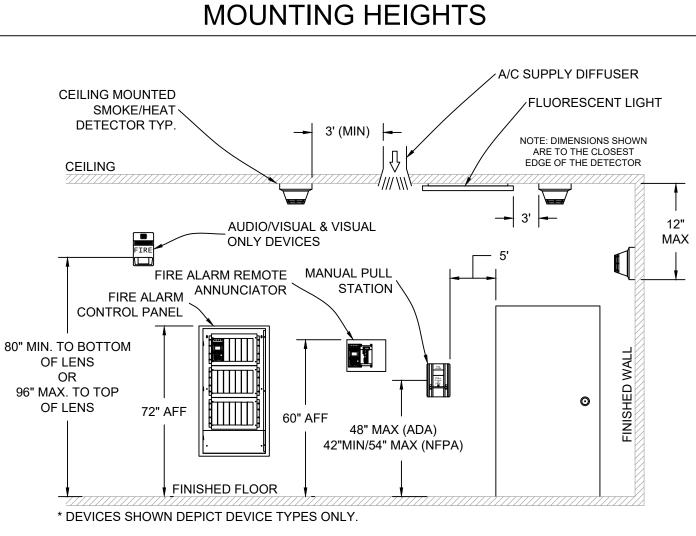
CONNECTOR: ST

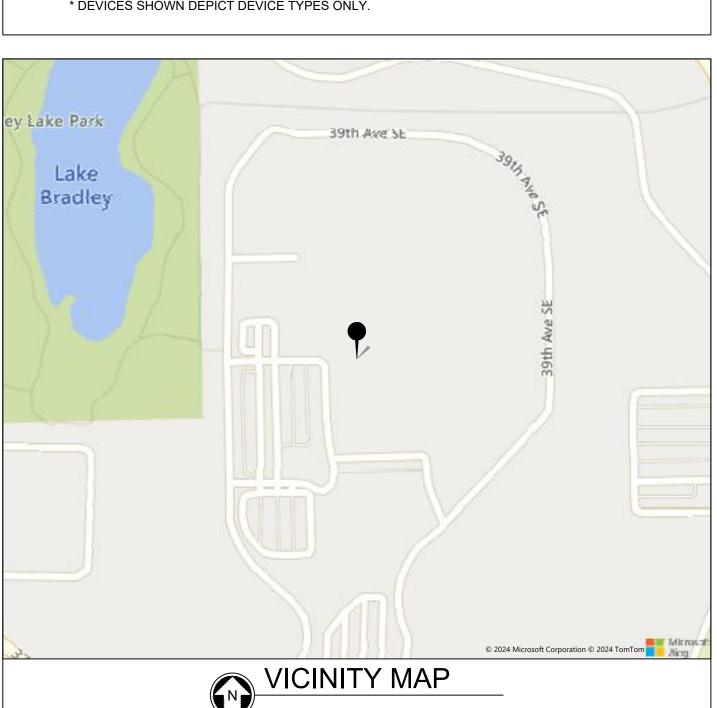
BELDEN 1583A

BELDEN 5120UL

[2.43Ω] [23pF/FT]

NOTE: ALL LISTED RESISTANCE AND CAPACITANCE ARE CONDUCTOR TO CONDUCTOR. ALL





ABBREVIATIONS

FSD - FIRE SMOKE DAMPER (THIRD PARTY)

HVAC - HEATING, VENTILATION, AND AIR

NAC - NOTIFICATION APPLIANCE CIRCUIT

RTU - ROOF TOP UNIT (THIRD PARTY)

SLC - SIGNALING LINE CIRCUIT

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

CONDITIONING (THIRD PARTY)

LA - LOW AIR (THIRD PARTY)

N/A - NOT APPLICABLE

NIC - NOT IN CONTRACT

NTS - NOT TO SCALE

PS - POWER SUPPLY

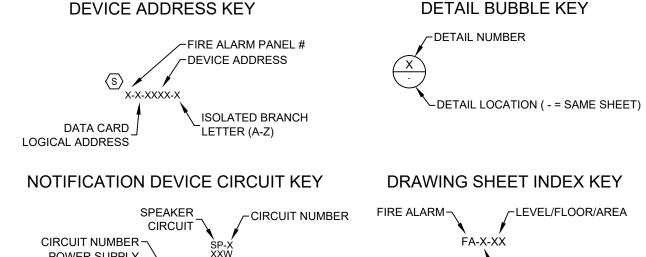
AC - ABOVE CEILING AFF - ABOVE FINISHED FLOOR ADA - AMERICAN DISABILITIES ACT AHJ - AUTHORITY HAVING JURISDICTION AHU - AIR HANDLING UNIT (THIRD PARTY) ASD - ASPIRATION SMOKE DETECTION CD - CANDELA (EX. 15CD) CIS - COMMON INTELLIGIBILITY SCALE DH - DOOR HOLDER (THIRD PARTY UNO) EF - EXHAUST FAN (THIRD PARTY)

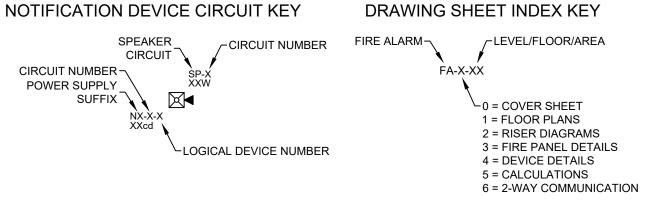
ELEV - ELEVATOR (THIRD PARTY) EOL - END OF LINE FA - FIRE ALARM FAA- FIRE ALARM ANNUNCIATOR FACP - FIRE ALARM CONTROL PANEL FACU - FIRE ALARM CONTROL UNIT FATC - FIRE ALARM TERMINAL CABINET FBO - FURNISHED BY OTHERS

EPF - ELEVATOR PRESSURIZATION FAN (THIRD PARTY) SPF - STAIR PRESSURIZATION FAN (THIRD PARTY) FCU - FAN COIL UNIT (THIRD PARTY) FFT - FIREFIGHTER'S TELEPHONE FM - FACTORY MUTUAL

STI - SPEECH TRANSMISSION INDEX TYP - TYPICAL UNO - UNLESS NOTED OTHERWISE VAV - VARIABLE AIR VOLUME (THIRD PARTY) VFD - VARIABLE FREQUENCY DRIVE (THIRD PARTY) W - WATT (EX. 1/2W) WP - WEATHERPROOF XP - EXPLOSION PROOF

FLOOR PLAN KEY





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> DESIGNER OF RECORD NICET III FIRE ALARM SYSTEMS EXPIRE DATE: 11-01-2026 FOR VERIFICATION, PLEASE VISIT: WWW.NICET.ORG

City of Postering Sevelopment & Postering Seven City of City of Postering Seven City of City o	
Building	Planning
Engineering	Public Works

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REV	JOB#	- DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	Г	04/15/2024	JU
	·		,	
RAWI	N BY:	OBADIAH R.		
ROJE	CT DESIGNER:	JACOB U.		
ROJE	CT MANAGER:	CHARITY W.		
OB N	JMBER:	11501-100220120		

US01-J00229129

DATE: 04/11/2024 SCALE: AS SHOWN CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE

PUYALLUP, WA, 98374

COVER SHEET FIRE ALARM SYSTEM

FA-0-1

INITIATING WIRING

SIGNATURE LOOP WIRING LIMITATIONS:

SIGNATURE DUAL DRIVER CONTROLLER MODULES SUPPORTS UP TO 250 INTELLIGENT SIGNATURE DETECTORS AND 250 INTELLIGENT SIGNATURE MODULES WIRE LENGTH LIMITATIONS:

NON-TWISTED, NON-SHIELDED WIRE 16AWG - 20pf/FT & 4.02 OHMS/1000 FEET 18AWG - 20pf/FT & 6.38 OHMS/1000 FEET

DETECTORS ONLY

16AWG - 125 DETECTORS - 9,275'

MODULES ONLY

16AWG - 125 MODULES - 7,921'

DETECTORS AND MODULES

16AWG - 125 OF EACH - 3,608'

DETECTORS ONLY

18AWG - 125 DETECTORS - 5,839'

MODULES ONLY

18AWG - 125 MODULES - 4,986'

DETECTORS AND MODULES

18AWG - 125 OF EACH - 2,271'

TWISTED PAIR, NON-SHIELDED WIRE 16AWG - 36pf/FT & 4.02 OHMS/1000 FEET

 18AWG - 25pf/FT & 6.38 OHMS/1000 FEET

 DETECTORS ONLY
 16AWG - 125 DETECTORS - 9,275'

 MODULES ONLY
 16AWG - 125 MODULES - 7,921'

 DETECTORS AND MODULES
 16AWG - 125 OF EACH - 3,608'

 DETECTORS ONLY
 18AWG - 125 DETECTORS - 5,839'

 MODULES ONLY
 18AWG - 125 MODULES - 4,986'

 DETECTORS AND MODULES
 18AWG - 125 OF EACH - 2,271'

TWISTED PAIR, SHIELDED WIRE
16AWG - 82pf/FT & 4.02 OHMS/1000 FEET

18AWG - 58pf/FT & 6.38 OHMS/1000 FEET

DETECTORS ONLY 16AWG - 125 DETECTORS - 6,098'

MODULES ONLY 16AWG - 125 MODULES - 6,098'

DETECTORS AND MODULES 16AWG - 125 OF EACH - 3,608'

DETECTORS ONLY 18AWG - 125 DETECTORS - 5,839'

MODULES ONLY 18AWG - 125 MODULES - 4,986'

DETECTORS AND MODULES 18AWG - 125 OF EACH - 2,271'

SIGNATURE DATA LOOP WIRING. CLASS B ONLY

SIGNATURE DATA LOOP. CLASS B ONLY

SIGNATURE

NOTIFICATION WIRING

SPEAKER CIRCUIT WIRING LIMITATIONS:

WIRE LENGTH LIMITATIONS:

THE MAXIMUM ALLOWABLE WIRE LENGTH IS THE FARTHEST DISTANCE THAT A SPEAKER CIRCUIT CAN EXTEND FROM THE AMPLIFIER TO THE LAST SPEAKER WITHOUT LOSING 0.5 dB OF SIGNAL. THE FOLLOWING ARE MAXIMUM DISTANCE BASED ON APPROXIMATE WATTAGE OF THE SPEAKER CIRCUIT. CIRCUIT LENGTHS ARE FURTHER BASED ON ORIGINATION OF A CIRCUIT FROM EITHER THE AMPLIFIER OR FROM THE CC1 MODULE.

ALLOWABLE LENGTH AT 25 Vrms, WITH 0.5 dB LOSS 16AWG - 20 WATTS - 231' 16AWG - 30 WATTS - 154' 16AWG - 40 WATTS - 116'

ALLOWABLE LENGTH AT 70 Vrms, WITH 0.5 dB LOSS 16AWG - 20 WATTS - 1815' 16AWG - 30 WATTS - 1210' 16AWG - 40 WATTS - 907'

NAC CIRCUIT (HORN, STROBE) WIRING LIMITATIONS:

FOR 24VDC SYSTEMS, MINIMUM DEVICE OPERATING VOLTAGE IS 16VDC.
VOLTAGE DROP CALCULATIONS ARE BASED ON 16VDC AND POWER SUPPLY
DE-RATED AND ON DEPLETED BATTERY BACKUP PER THE PRESCRIBED PERIOD
OF STANDBY AND ALARM RING TIME. THE VOLTAGE DROP WILL LIMIT THE
CIRCUITS CAPACITY IN ALMOST ALL CASES AND CURRENT CANNOT BE USED AS
THE ONLY CIRCUIT WIRING LIMITATION. ALTERATIONS TO CIRCUIT LENGTH
FROM THOSE CALCULATED MAY CAUSE CIRCUITS TO BE OUT OF THE
TOLERANCES GRANTED BY THE FIRE ALARM CODE. CHANGES TO DEVICE
LOCATION OR CIRCUIT LENGTH SHALL BE COMMUNICATED TO THE CONVERGINT

NAC CIRCUIT WIRING AND ROUTING MUST NOT EXCEED WHAT IS SHOWN ON THE DESIGN DRAWINGS AND CALCULATIONS. A VOLTAGE DROP TEST IS PART OF MOST FIRE FINALS AND IS REQUIRED BY NFPA. A FAILED FIRE FINAL MAY REQUIRE REWIRING OF THE FAILED CIRCUITS.

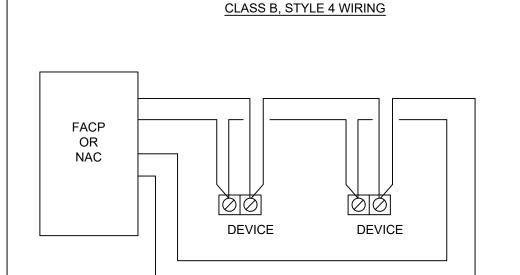
WIRE RESISTANCE RATINGS USED FOR CALCULATIONS: 18AWG - 13 OHMS PER 1000' 16AWG - 8 OHMS PER 1000'

CLASS A OR B NOTIFICATION WIRING

14AWG - 5.2 OHMS PER 1000'

EXAMPLE: 1.0 AMP CIRCUIT LOAD USING #14 WIRE = 409 FEET MAXIMUM.

FACP OR NAC EOL RESISTOR ON NON ADDRESSABLE CIRCUITS DEVICE DEVICE



CLASS A, STYLE 6 WIRING

SEPARATION OF CLASS A CIRCUITS - INSTALLATION EXCEPTIONS:

CLASS A OUTGOING AND RETURN CONDUCTORS, EXITING AND RETURNING TO THE CONTROL PANEL, ARE TO BE ROUTED SEPARATELY. THE MINIMUM RECOMMENDED SEPARATION IS 1 FT. VERTICALLY AND 4 FT. HORIZONTALLY. THE FOLLOWING EXCEPTIONS STILL DO NOT ELIMINATE THE 2ND PAIR OF WIRES. THEY ALLOW YOU TO USE A SINGLE RACEWAY AND ELIMINATE THE SEPARATION FOR THESE CONDITIONS.

WHEN MAXIMUM CABLE, ENCLOSURE, OR RACEWAY IS LESS THAN 10 FEET. NO LIMIT TO NUMBER OF DEVICES.
 UNLIMITED CONDUIT OR RACEWAY DROP TO AN INDIVIDUAL DEVICE.
 UNLIMITED CONDUIT OR RACEWAY DROP TO A ROOM NOT

EXCEEDING 1000 SQ, FT. NO LIMIT TO THE NUMBER OF DEVICES.

RECORD DRAWINGS

AS-BUILT / RECORD DRAWING REQUIREMENTS:

THE FOLLOWING INFORMATION SHOULD BE RECORDED ON A SEPARATE SET OF DRAWINGS FOR EACH PROJECT:

INTERFACE EQUIPMENT. CONTROL PANELS, ANNUNCIATORS, DETECTORS, CONTROL RELAYS, INPUT AND OUTPUT MODULES, TERMINAL CABINETS, ETC.
2. ANY CHANGES TO CIRCUIT WIRING. THIS INCLUDES DELETION OR ADDITIONAL WIRING RUNS. ANY RE-ROUTING OF CIRCUIT WIRING. ANY ADDITIONS OR DELETIONS TO THE NUMBER, LOCATION, AND ORDER OF

1. ANY CHANGES IN THE LOCATION OF ANY ASSOCIATED FIRE ALARM OR

DEVICE WIRING ON A CIRCUIT.

3. ADDRESSES AND/ OR LABELS FOR ALL ADDRESSABLE DEVICES.

4. CANDELA SETTINGS OF ALL VISUAL NOTIFICATION DEVICES.

5. WATTAGE TAP SETTINGS OF ALL SPEAKER NOTIFICATION DEVICES.

ANY CHANGES SHALL BE DISCUSSED WITH CONVERGINT PROJECT MANAGER TO ENSURE SYSTEM AND CODE PARAMETERS ARE MET. CONVERGINT SHALL NOT BE HELD ACCOUNTABLE FOR CHANGES MADE WITHOUT APPROVAL.

THIS INFORMATION SHALL BE NEAT AND LEGIBLE WHEN PRESENTED TO THE TECHNICIAN AT THE CONCLUSION OF THE PROJECT. PLEASE NOTE CONTACT INFORMATION ON DRAWINGS FOR INDIVIDUALS WITH FAMILIARITY OF INSTALLATION IN THE EVENT QUESTIONS ARISE DURING THE CLOSEOUT PROCESS.

SEQUENCE OF OPERATIONS	ACTIVATION OF LOCAL ALARM SIGNAL AT FACP (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATION OF LOCAL SUPERVISORY SIGNAL AT FACP (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATION OF LOCAL TROUBLE SIGNAL AT FACP (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATION OF LOCAL ALARM SIGNAL AT ANNUNCIATOR (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATION OF LOCAL SUPERVISORY SIGNAL AT ANNUCIATOR (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATION OF LOCAL TROUBLE SIGNAL AT ANNUNCIATOR (LCD DISPLAY & AUDIBLE INDICATION)	ACTIVATE ALARM OUTPUT TO BUILDING FACP	ACTIVATE SUPERVISORY OUTPUT TO BUILDING FACP	ACTIVATE TROUBLE OUTPUT TO BUILDING FACP	ACTIVATE AUDIBLE & VISIBLE DEVICES VIA INTERFACE WITH BUILDING FACP	SENERAL ALARM SIGNAL TO ACCESS/SECURITY SYSTEM	PRE-ACTION SOLENOID ACTIVATION	CLOSE ALL FIRE/SMOKE DAMPERS	
	АСТІУАТІО (LCD D	ACTIVATION C	ACTIVATION (LCD D	ACTIVATION OF (LCD D	ACTIVATION OF LC	ACTIVATION OF L	ACTIVATE	ACTIVATESUI	ACTIVATET	ACTIV. VIA IN	GENERAL ALAR	PRE-A	CLO	
SMOKE DETECTOR	X			X			X			X	X		X	
VESDA DETECTOR - URGENT FAULT			X			X			X					
VESDA DETECTOR - ACTION		X			X			X						
VESDA DETECTOR - ALERT		X			X			X						
VESDA DETECTOR - FIRE 1	X			X			X			X	X	X	X	
VESDA DETECTOR - FIRE 2	X			X			X			X	X	X	X	
MANUAL PULL STATION	X			X			X			X	X		X	
GENERAL TROUBLE CONDITION			X			X			X					
GENERAL SUPERVISORY CONDITION		X			X			X						
PRE-ACTION WATERFLOW/ALARM SWITCH	X			X			X			X	X		X	
PRE-ACTION TAMPER SWITCH		X			X			X						
PRE-ACTION LOW AIR SWITCH		X			X			X						
PRE-ACTION RELEASE CIRCUIT DISCONNECT SWITCH		X			X			X				Α		
FACP - LOSS OF PRIMARY POWER			X			X			X					

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

REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU
	1		
RAWN	N BY: OBADIAH R.		
20 IE	CT DESIGNER: IACOR II		

JOB NUMBER: US01-J00229129

SCALE: AS SHOWN DATE: 04/11/2024

CENTERIS DATACENTER

1ST FLOOR VESDA UPDATES

CHARITY W.

PROJECT MANAGER:

NOTES

1023 39TH AVE SE

PUYALLUP, WA, 98374

FIRE ALARM SYSTEM

FA-0-2

FLAG NOTES: **GENERAL NOTES:** REMOVE EXISTING VESDA HEADS AND TIE VESDANET INTO NEW DETECTORS AS SHOWN. 1. SLC IS CLASS-A. REDUNDANT PATHWAYS MUST BE ROUTED SEPARATELY AND BE SEPARATED BY 48" WHEN ROUTED HORIZONTALLY, 12" WHEN ROUTED VERTICALLY. REDUNDANT PATH MAY USE THE SAME CONDUIT/RACEWAY UNDER THE TIE NEW DEVICES INTO EXISTING SLC AND/OR AUX POWER RISER. FOLLOWING CONDITIONS: (A) FOR A DISTANCE NOT TO EXCEED 10 FT (3.0 M) WHERE THE OUTGOING AND RETURN CONDUCTORS ENTER OR EXIT THE INITIATING DEVICE, NOTIFICATION APPLIANCE, OR CONTROL UNIT ENCLOSURES. (B) SINGLE DROPS INSTALLED IN THE RACEWAY TO INDIVIDUAL DEVICES OR APPLIANCES. (C) IN A SINGLE ROOM NOT EXCEEDING 1000 FT IN AREA, A DROP INSTALLED IN THE RACEWAY TO MULTIPLE DEVICES OR APPLIANCES THAT DOES NOT INCLUDE ANY EMERGENCY CONTROL FUNCTION DEVICES. Phone: 425-272-2250 Fax: 425-251-0949 2. THIS BUILDING IS SERVED BY A SHELL AND CORE PANEL THAT HANDLES ALL NOTIFICATION, CENTRAL STATION MONITORING, AND ANY NON-TENANT SMOKE DETECTION SUCH AS ELEVATOR RECALL. DEVICES ON THE HOUSE SYSTEM ARE NOT SHOWN, AND ANY MODIFICATIONS TO THE NOTIFICATION SYSTEM TO SUPPORT THE ADDED ROOMS ARE BY OTHERS, UNDER SEPARATE means without the written authorization of Convergint Technologies LLC ______ 101-02-02776 S 01-02-02777 S 01-02-02778 S 01-02-02779 NSSV 01-02-0309 S 01-020305 ______ PROJECT DESIGNER: JACOB U. PROJECT MANAGER: CHARITY W. OVERALL 1ST FLOOR PLAN SCALE: 1/16"=1'-0"

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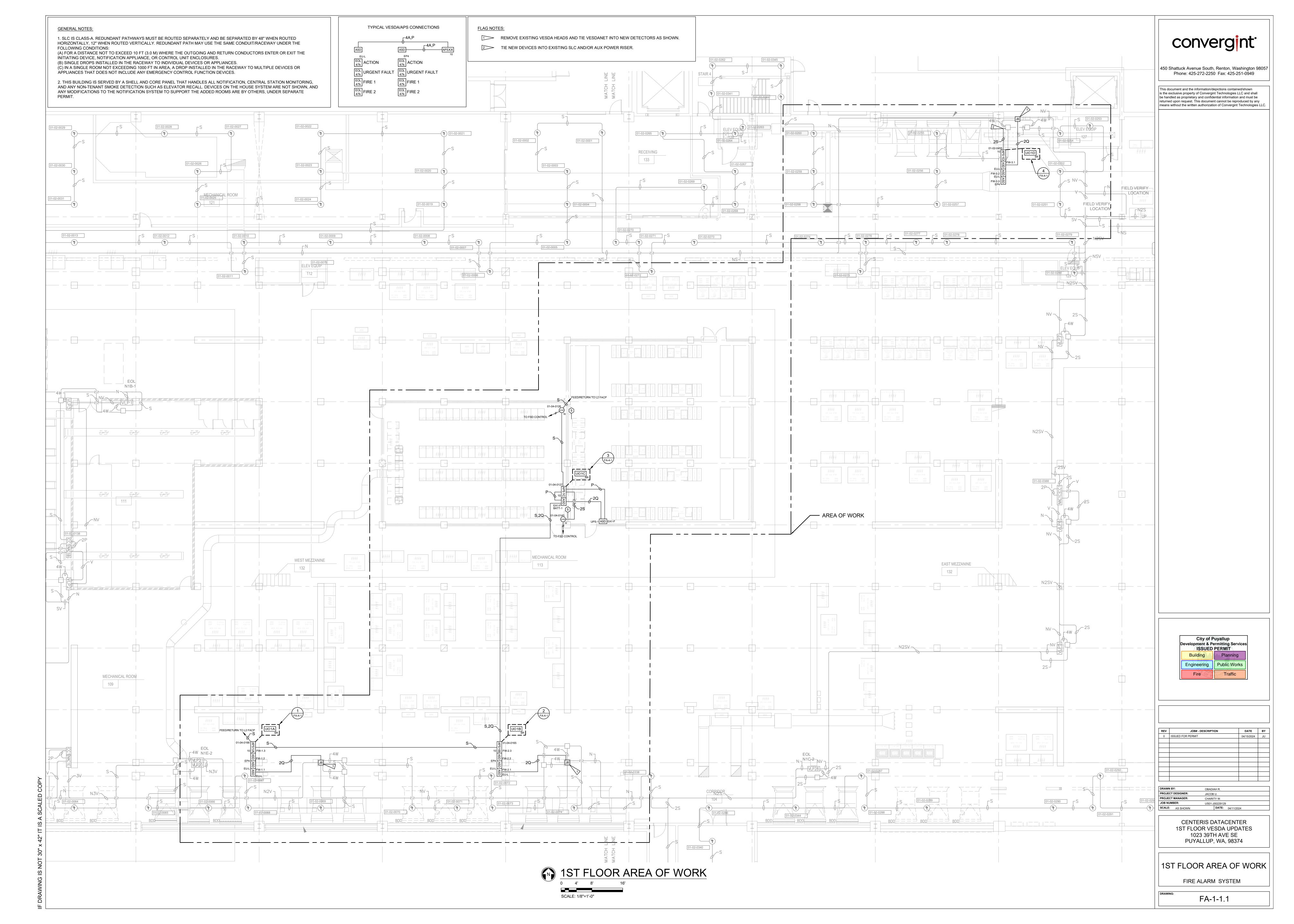
Engineering Public Works

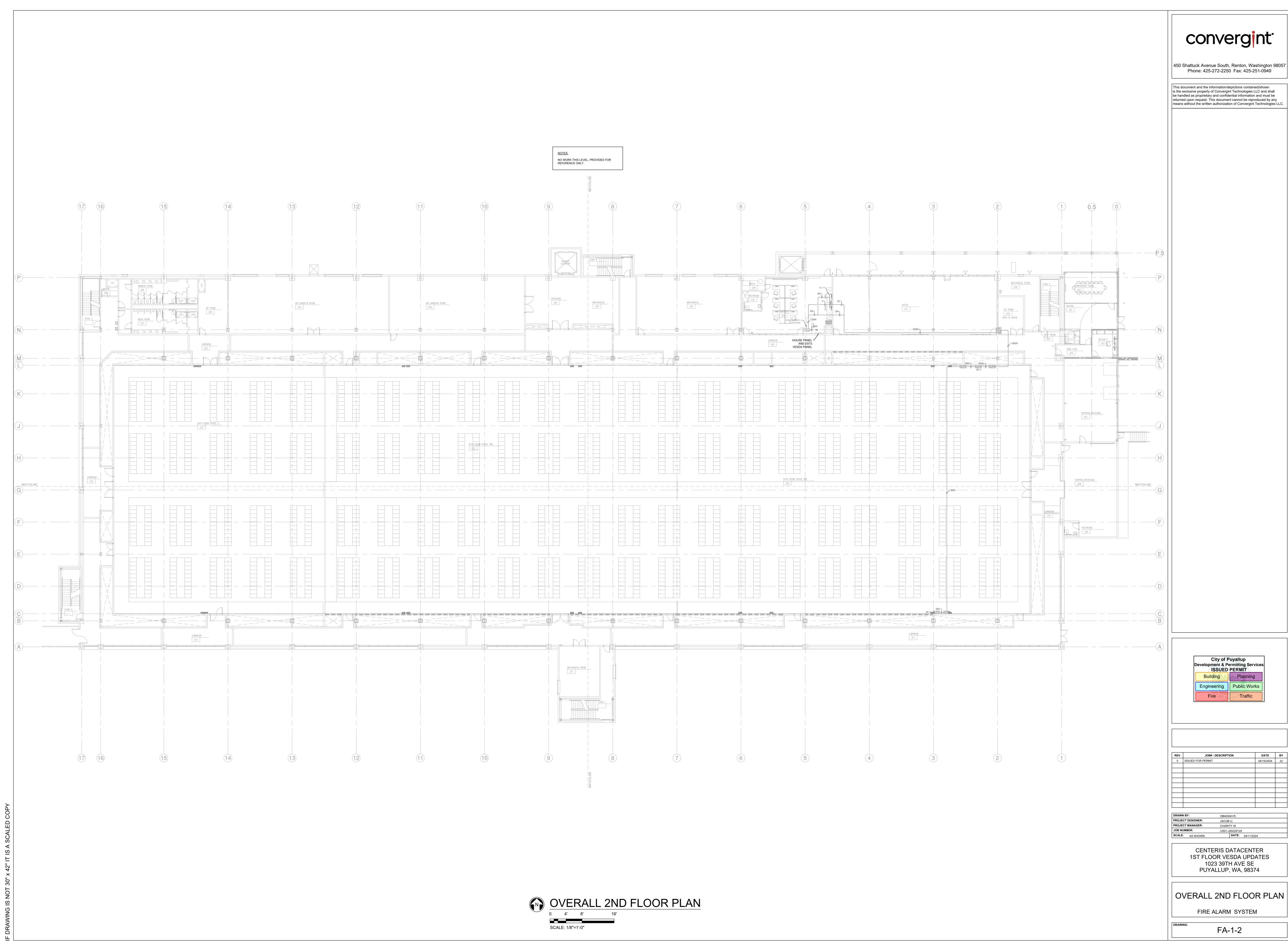
CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

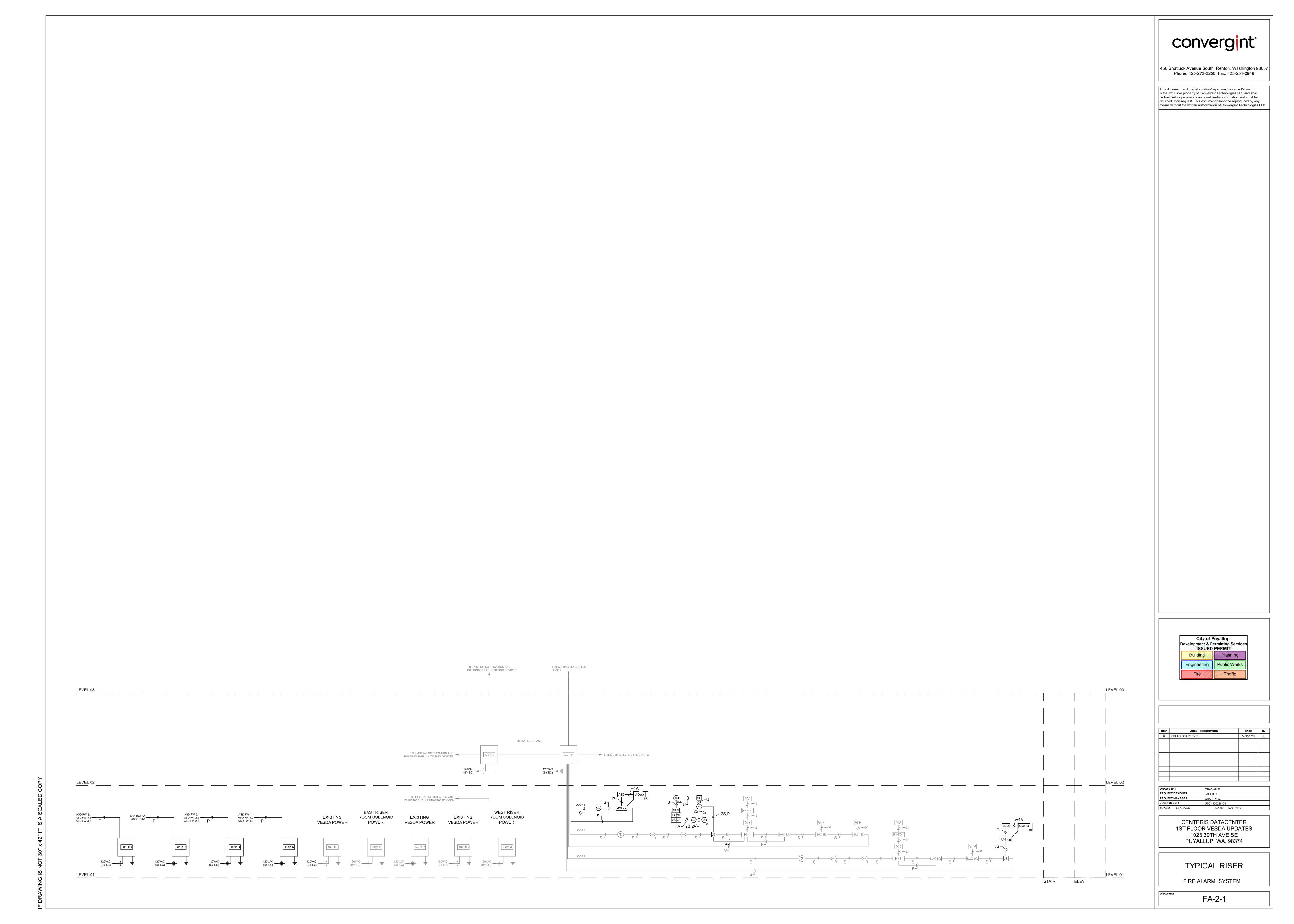
OVERALL 1ST FLOOR PLAN

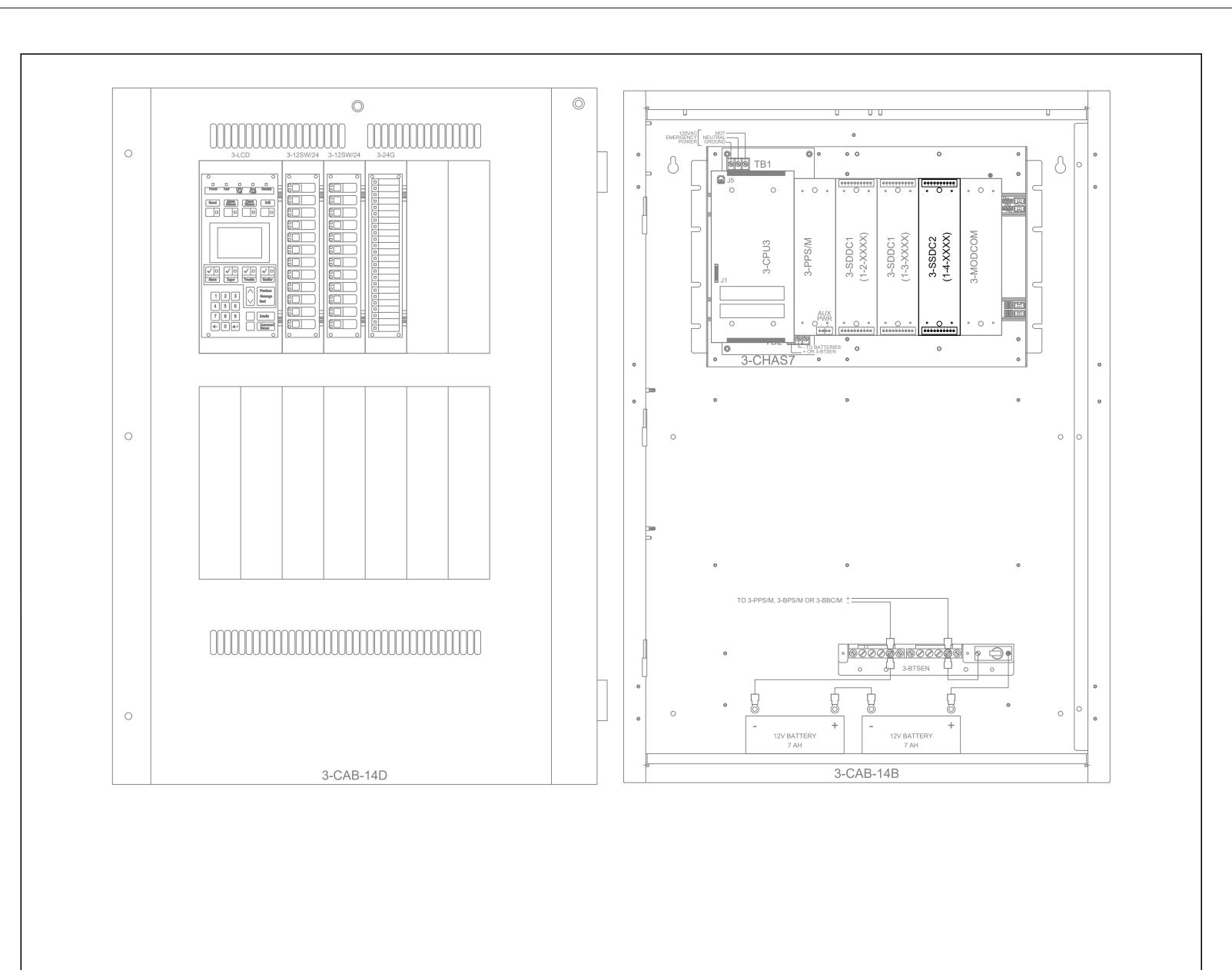
FIRE ALARM SYSTEM

FA-1-1









HARDWARE LEVEL

OPERATOR LEVEL

EXISTING EST3 CABINET - FACP #01

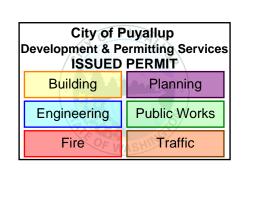
EST3 Fire Alarm Panel Battery Calculation STANDBY DURATION REQUIRED (HRS) FACP LOCATION LEVEL 2 ALARM RING TIME REQUIRED (MIN) AREAS SERVED ALL LEVELS SPARE CAPACITY (%) 25% FIRE ALARM PANEL BASE LOAD/AUXILIARY POWER OUTPUT PART# EACH TOTAL **EACH** TOTAL
 165
 165

 42
 42
 CENTRAL PROCESSOR UNIT MODULE IQUID CRYSTAL DISPLAY MODULE 38 2 SWITCHES DISPLAY/CONTROL MODULE 38 24 LED DISPLAY MODULES 38 70 PRIMARY POWER SUPPLY W/ LOCAL RAIL MODULE 120V 50/60 HZ 70 70 4-PPS/M 3-SSDC2 144 204 SINGLE SIGNATURE DRIVER CONTROLLER 144 204 528 336 3-SDDC2 DUAL SIGNATURE DRIVER CONTROLLER 264 672 3-MODCOM MODEM/DIALER (DACT) VERSION 95 95 60 60 SUBTOTAL SUPERVISORY CURRENT (AMPS): 1.111 TOTAL SUPERVISORY CURRENT WITH STANDBY (AMPS): 4.444 SUBTOTAL ALARM CURRENT (AMPS): 1.362 TOTAL ALARM CURRENT WITH ALARM RING TIME (AMPS): 0.1135 SPARE CAPACITY: 25% TOTAL AMP HOUR REQUIRED (AMPS): 5.696875 convergint

BATTERY SIZE REQUIRED (AH): 18.00 BATTERY CABINET PROVIDED: NO convergint

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REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU
DRAWN	BY: ORADIAH R		

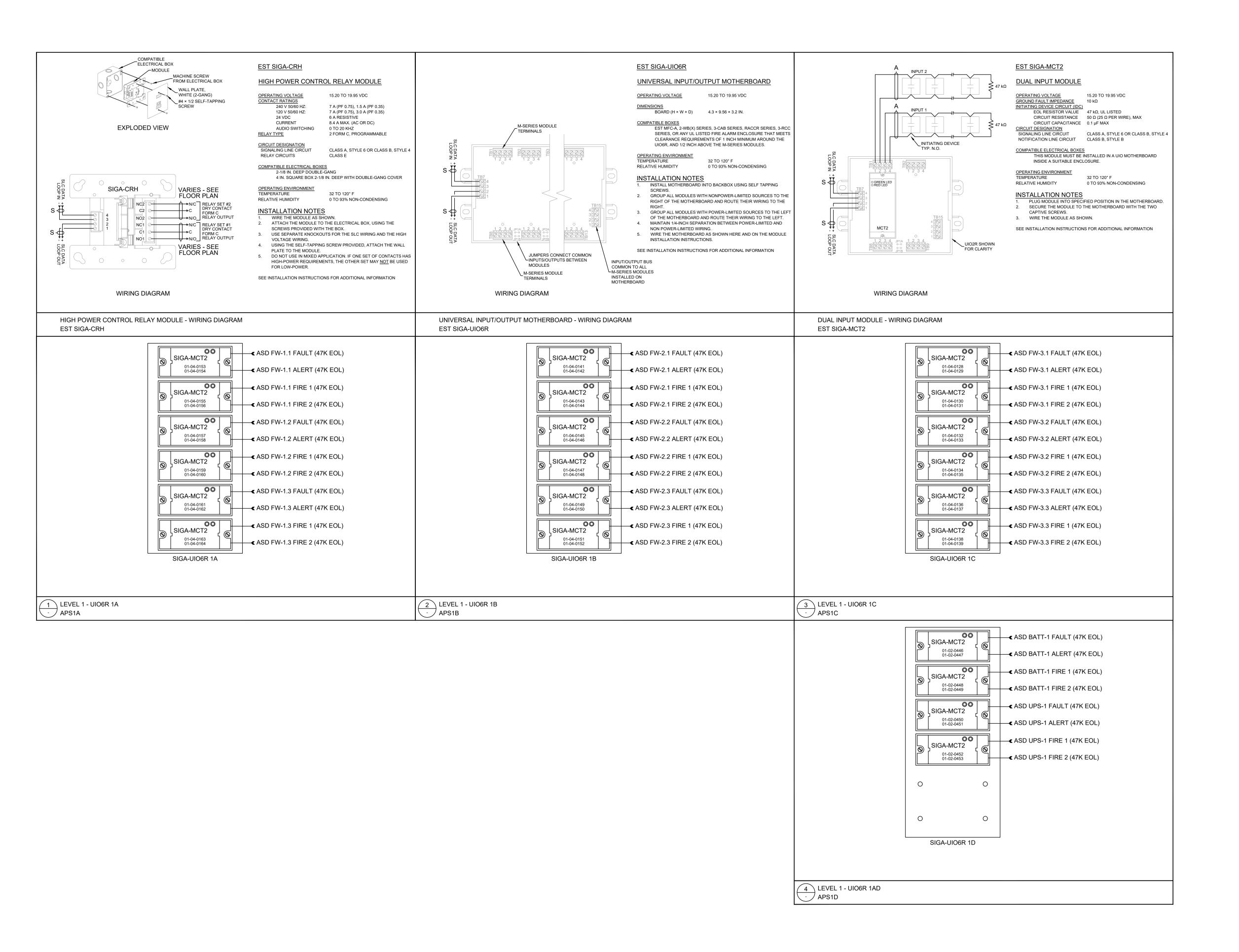
PROJECT DESIGNER: JACOB U.
PROJECT MANAGER: CHARITY W.

> CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

EXISTING FIRE PANEL DETAILS

FIRE ALARM SYSTEM

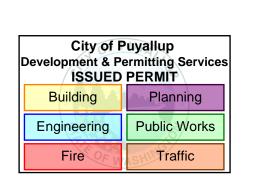
FA-3-1



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REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU

 DRAWN BY:
 OBADIAH R.

 PROJECT DESIGNER:
 JACOB U.

 PROJECT MANAGER:
 CHARITY W.

 JOB NUMBER:
 US01-J00229129

 SCALE:
 AS SHOWN

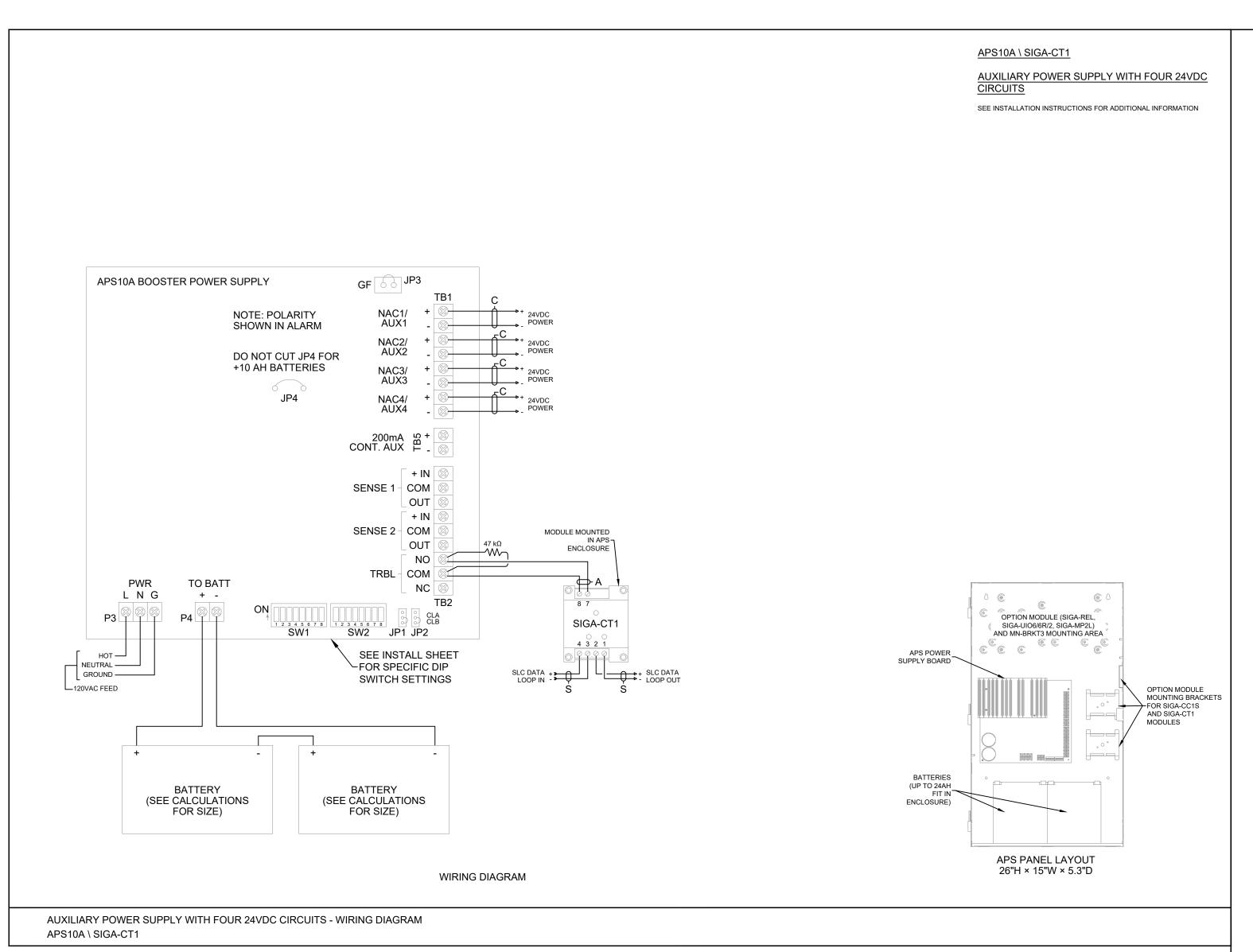
 DATE:
 04/11/2024

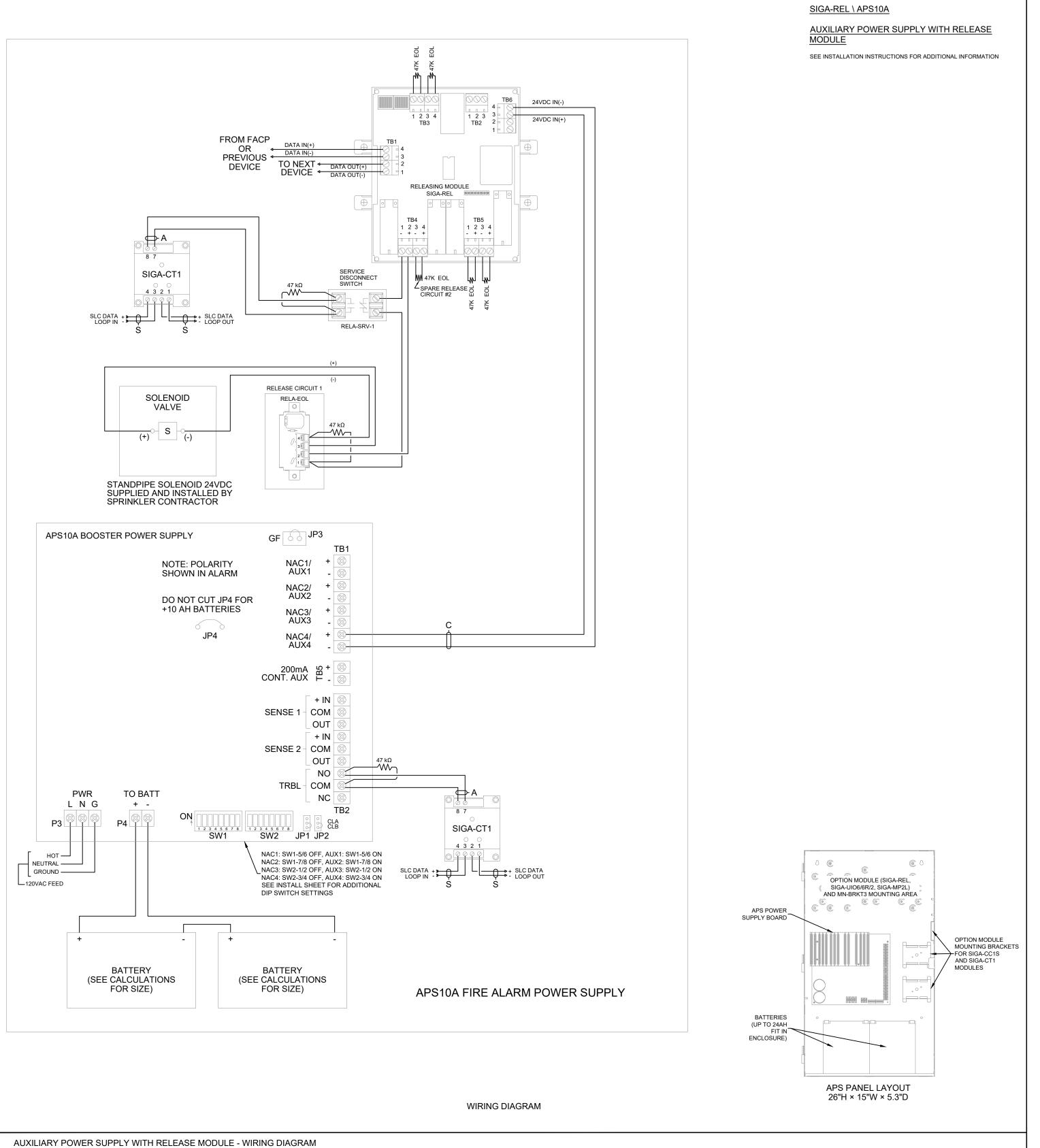
CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

DEVICE DETAILS

FIRE ALARM SYSTEM

FA-4-1





SIGA-REL \ APS10A

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	Puyallup ermitting Services PERMIT
Building	Planning
Engineering	Public Works
Fire OF W	Traffic

REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU
	•		

 DRAWN BY:
 OBADIAH R.

 PROJECT DESIGNER:
 JACOB U.

 PROJECT MANAGER:
 CHARITY W.

 JOB NUMBER:
 US01-J00229129

 SCALE:
 AS SHOWN

 DATE:
 04/11/2024

CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

DEVICE DETAILS

FIRE ALARM SYSTEM

FA-4-1

POWE	R SUPPLY DESI	GNATOR	NAC	POWER SUPPL	Y PREFIX	1A S	STANDBY D	JRATION RE	EQUIRED (HRS) 4
PANEL	LOCATION	LEVEL 1	•			,	ALARM RIN	G TIME REQ	UIRED (MIN)	15
AREA S	SERVED	LEVEL 1				!	SPARE CAPA	CITY (%)		25%
		POWE	R SUPPL	Y BASE LOAD	/AUXILIA	RY POWE	R OUTPUT			
	PART#		DESCRIPTI	ON	QT	SUPV	. CURRENT	(mA) AL	ARM CURREN	IT (mA)
PANI#)E3CKIP II	ON	Qi	EAC	CH TO	TAL	EACH T	OTAL
APS10A AUXILIARY BOO		AUXILIARY BOOSTI	ER POWER	R SUPPLY	1	70)	70	270	270
P	APS AUX	BPS CIRCUITS SET 1	O AUX O	UTPUT	1	35	5	35	35	35
S	SIGA-CT1 DUAL INPUT MODULE 1 0.396 0.396		396	0.68	0.68					
				NAC/AUX	OUTPUT	<u> </u>				
NAC/A	AUX OUTPUTS					T	. CURRENT	(mA) AL	ARM CURREN	IT (mA
CKT.#			DESCRI	IPTION			TOTAL	`	TOTAL	
1	AUX. POWER	ASD FW-1.1, ASD F	W-1.2, AS	SD FW-1.3			1733		1868	
2	SPARE	SPARE					0		0	
3	SPARE	SPARE					0		0	
4	SPARE	SPARE					0		0	
					SUBTOTA	AL SUPERV	ISORY CURI	RENT (AMPS	5): 1.838	
				TOTAL SUI	PERVISORY	CURRENT	WITH STAN	IDBY (AMPS	5): 7.354	
									,	
					SL	IBTOTAL A	LARM CURI	RENT (AMPS		
				TOTAL ALARI				•	5): 2.174	
				TOTAL ALARI			ARM RING	•	5): 2.174 5): 0.543	
	·ODV	era i nt	Ð	TOTAL ALARI	M CURREN	T WITH AL	ARM RING SPA SPA OUR REQU	TIME (AMPS RE CAPACIT IRED (AMPS	5): 2.174 5): 0.543 Y: 25% 5): 9.871	
C	onve	ergint	9	TOTAL ALARI	M CURREN	T WITH AL TAL AMP I BATT	ARM RING SPA IOUR REQU ERY SIZE RE	TIME (AMPS RE CAPACIT IRED (AMPS QUIRED (AH	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10	
C	onve	ergint	9	TOTAL ALARI	M CURREN	T WITH AL TAL AMP I BATT	ARM RING SPA IOUR REQU ERY SIZE RE	TIME (AMPS RE CAPACIT IRED (AMPS	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10	
					M CURREN	T WITH AL TAL AMP I BATT BATT	ARM RING SPA IOUR REQU ERY SIZE RE	TIME (AMPS RE CAPACIT IRED (AMPS QUIRED (AH ET PROVIDE	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10	
		ergint			VI CURREN	T WITH AL TAL AMP I BATT BATT YPE	ARM RING SPAHOUR REQUERY SIZE REFERY CABINI	RE CAPACITIRED (AMPS QUIRED (AH ET PROVIDE	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10	3
		-1 - AUX. PO\	WER SU		CIRCUIT TO	T WITH AL TAL AMP I BATT BATT YPE	ARM RING SPAHOUR REQUERY SIZE REFERY CABINI	RE CAPACIT IRED (AMPS QUIRED (AF ET PROVIDE ER 1, ASD FW-	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10 D: NO	
CIR	RCUIT N1A	-1 - AUX. PO\	WER SU	JMMARY	CIRCUIT TO DESCRIPT	T WITH AL TAL AMP I BATT BATT YPE	ARM RING SPAHOUR REQUERY SIZE REFERY CABINI	RE CAPACIT IRED (AMPS QUIRED (AF ET PROVIDE ER 1, ASD FW-	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10 D: NO	
CIR	RCUIT N1A	-1 - AUX. POV POWER VOLTAGE (Vdc)	VER SU	JMMARY INFORMATIO	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION	SPAHOUR REQUERY SIZE RETERY CABINITION AUX. POWASD FW-1	RE CAPACIT IRED (AMPS QUIRED (AH ET PROVIDE ER 1, ASD FW- CABL WIRE GAU	6): 2.174 6): 0.543 Y: 25% 6): 9.871 d): 10 D: NO	ES
CIR NOMII MINIM	NAL STARTING	-1 - AUX. POV POWER VOLTAGE (Vdc)	VER SUPPLY	JMMARY INFORMATIO	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION TOR (VDC)	SPAHOUR REQUERY SIZE RETERY CABINITION AUX. POWASD FW-1	RE CAPACIT IRED (AMPS QUIRED (AH ET PROVIDE ER 1, ASD FW- CABL WIRE GAU	6): 2.174 6): 0.543 Y: 25% 6): 9.871 f): 10 D: NO 1.2, ASD FW-1 LE PROPERTI	ES 14
CIR NOMII MINIM	NAL STARTING	-1 - AUX. POV POWER VOLTAGE (Vdc) OLTAGE (Vdc)	VER SUSUPPLY	JMMARY INFORMATIO LOAD FACTO VOLTAGE W	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION TOR (VDC)	ARM RING SPA HOUR REQUERY SIZE REFERY CABINITAL AUX. POW ASD FW-1 0.59 18.59788 1.868	RE CAPACIT IRED (AMPS QUIRED (AH ET PROVIDE ER 1, ASD FW- CABL WIRE GAU	6): 2.174 6): 0.543 Y: 25% 6): 9.871 f): 10 D: NO 1.2, ASD FW-1 LE PROPERTI	14 3.07
CIR NOMIN MINIM TOTAL	NAL STARTING	-1 - AUX. POV POWER VOLTAGE (Vdc) OLTAGE (Vdc)	VER SUSUPPLY	JMMARY INFORMATIO LOAD FACTO VOLTAGE W	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION TOR (VDC)	ARM RING SPA HOUR REQUERY SIZE REFERY CABINITE AUX. POW ASD FW-1. 0.59 18.59788 1.868 STANDBY	RE CAPACIT IRED (AMPS QUIRED (AF ET PROVIDE ER 1, ASD FW- WIRE GAU Ω PER 1K F	5): 2.174 6): 0.543 Y: 25% 6): 9.871 f): 10 D: NO 1.2, ASD FW-1 LE PROPERTI GE (AWG) EET (OHMS)	14 3.07 RRENT
CIR NOMIN MINIM TOTAL	NAL STARTING MUM DEVICE V SUPERVISORY	POWER VOLTAGE (Vdc) OLTAGE (Vdc) CURRENT (AMPS)	NER SUPPLY 19.7 16 1.733 DEVICE	JMMARY INFORMATIO LOAD FACTO VOLTAGE W TOTAL ALARI	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION TOR (VDC) T (AMPS)	ARM RING SPA HOUR REQUERY SIZE REFERY CABINITE AUX. POW ASD FW-1. 0.59 18.59788 1.868 STANDBY	RE CAPACITIRED (AMPS QUIRED (AMPS QUIRED (AMPS T PROVIDE ER 1, ASD FW- CABI WIRE GAU Ω PER 1K F	5): 2.174 5): 0.543 Y: 25% 6): 9.871 H): 10 D: NO 1.2, ASD FW-1 E PROPERTI GE (AWG) EET (OHMS)	14 3.07 RRENT
CIR NOMIN MINIM TOTAL PA	NAL STARTING NUM DEVICE V SUPERVISORY	-1 - AUX. POV POWER VOLTAGE (Vdc) OLTAGE (Vdc)	NER SUPPLY 19.7 16 1.733 DEVICE	JMMARY INFORMATIO LOAD FACTO VOLTAGE W TOTAL ALARI	CIRCUIT T DESCRIPT N R (LF)	T WITH AL TAL AMP H BATT BATT YPE ION TOR (VDC) T (AMPS)	ARM RING SPA HOUR REQUERY SIZE REFERY CABINI AUX. POW ASD FW-1 0.59 18.59788 1.868 STANDBY (r	RE CAPACIT IRED (AMPS QUIRED (AH ET PROVIDE ER 1, ASD FW- WIRE GAU Q PER 1K F (CURRENT hA)	5): 2.174 5): 0.543 Y: 25% 5): 9.871 f): 10 D: NO 1.2, ASD FW-1 E PROPERTI GE (AWG) EET (OHMS) ALARM CU (mA	14 3.07 RRENT

POWER SUPPLY DESIGNATOR			NAC	POWER SUPPL	Y PREFIX	1	B S	STANDBY DURATION REQUIRED (HF			4
PANEL	LOCATION	LEVEL 1					ļ	ALARM RING	3 TIME REQ	UIRED (MIN)	15
AREA S	SERVED	LEVEL 1					S	SPARE CAPA	CITY (%)		25%
		POW	ER SUPP	LY BASE LOAD	/AUXILIA	ARY P	POWE	R OUTPUT			
	PART#		DESCRIPTI	ION		TY.	SUPV	. CURRENT	(mA) AL	ARM CURREN	T (mA)
	TANI#		JEJCKII II		۷.	•••	EAC	н то	TAL	EACH TO	OTAL
	APS10A	AUXILIARY BOOST				1	70)	70	270	270
	APS AUX	BPS CIRCUITS SET		UTPUT		1	35		35	35	35
S	SIGA-CT1	DUAL INPUT MOD	ULE			1	0.39	96 0.	396	0.68	0.68
				NAC/AU	OUTPU	TS					
NAC/A	AUX OUTPUTS		DECCE	IDTION			SUPV	. CURRENT	(mA) AL	ARM CURREN	T (mA)
CKT.#	TYPE		DESCR	IPTION				TOTAL		TOTAL	
1	AUX. POWER	ASD FW-2.1, ASD F	W-2.2, AS	SD FW-2.3				1733		1868	
2	SPARE	SPARE						0		0	
3	SPARE	SPARE						0		0	
4	SPARE	SPARE						0		0	
								ISORY CURF			
				TOTAL SUI	PERVISOR	Y CUF	RRENT	WITH STAN	IDBY (AMPS	5): 7.354	
					S	UBTO	OTAL A	LARM CURF	RENT (AMPS	•	
				TOTAL ALARI	M CURREN	IW TV	ITH AL			-	
		•							RE CAPACIT		
C	CONVE	ergint	•		TC	OTAL A		OUR REQU	•	To the second se	
								ERY SIZE RE ERY CABINI	•	•	
							DATI	ERT CABINI	TROVIDE	D. NO	
CIR	CUIT N1R	-1 - AUX. PO\	MFR SI	ΙΜΜΔΑΥ	CIRCUIT	TYPE		AUX. POW	ER		
CIII	COII NID	1 AOM: TO	VEI SC		DESCRIP.	TION		ASD FW-2.	1, ASD FW-	2.2, ASD FW-2	.3
			SUPPLY	INFORMATIO						E PROPERTI	ES
		VOLTAGE (Vdc)	19.7	LOAD FACTO	R (LF)			0.59	WIRE GAU	` '	14
	NAL STARTING	• • •		The state of the s			(VDC)	12 50722	O DED 1K E	EET (OHMS)	3.07
MININ	IUM DEVICE V	OLTAGE (Vdc)	16	VOLTAGE W					12 F LN IN I	LLI (OIIIVIS)	3.07
MININ	IUM DEVICE V	• • •		VOLTAGE W/ TOTAL ALARI				1.868		, , , , , , , , , , , , , , , , , , ,	
MININ TOTAL	OUM DEVICE V	OLTAGE (Vdc)	16 1.733	-		NT (Al	MPS)	1.868 STANDBY	CURRENT	ALARM CUI	RRENT
MININ TOTAL	IUM DEVICE V	OLTAGE (Vdc)	16	-		NT (Al		1.868 STANDBY (n	CURRENT	ALARM CUI	RRENT
MINIM TOTAL PA	NUM DEVICE V SUPERVISORY	OLTAGE (Vdc) CURRENT (AMPS)	16 1.733 DEVICE	TOTAL ALARI		NT (AI	MPS)	1.868 STANDBY (n EACH	CURRENT (A) TOTAL	ALARM CUI (mA) EACH	RRENT
MINIM TOTAL PA	NUM DEVICE V SUPERVISORY	OLTAGE (Vdc)	16 1.733 DEVICE	TOTAL ALARI		NT (AI	MPS)	1.868 STANDBY (n	CURRENT	ALARM CUI	RRE TOT

SUPPLIES ARE REQUIRED.

)/AUXILIAR							
	PART#		DESCRIPTION	QTY	SUPV	. CURR	RENT (n	nA)	ALARM CL	JRRE	NT (mA)
				ζ	EAC	Н	TOT	AL _	EACH		TOTAL
,	APS10A	AUXILIARY BOOST	ER POWER SUPPLY	1	70		70		270		270
P	APS AUX	BPS CIRCUITS SET	TO AUX OUTPUT	1	35		35	μ	35 35		35
S	IGA-CT1	DUAL INPUT MOD	ULE	1	0.39	6	0.39	96	0.68		0.68
			NAC/AU	(OUTPUTS							
NAC/A	AUX OUTPUTS		DESCRIPTION		SUPV	. CURR	RENT (n	nA)	ALARM CU	JRRE	NT (mA)
CKT. #	TYPE		DESCRIPTION			TOT	AL		TO	OTAL	R
1	AUX. POWER	BATT-1, UPS-1				734	4			800	
2	SPARE	SPARE				0				0	
3	SPARE	SPARE				0				0	
4	SPARE	SPARE				0				0	
				SUBTOTAL	L SUPERVI	SORY	CURRE	NT (AM	1PS): 0	.839	
			TOTAL SU	PERVISORY	CURRENT	WITH:	STAND	BY (AM	1PS): 3	.358	
				SUI	BTOTAL A	LARM	CURRE	NT (AM	IPS): 1	.106	
			TOTAL ALAR					•	•	106).276	
			TOTAL ALAR				ING TI	•	1PS): 0		
		era i nt		M CURRENT	WITH ALA	ARM R	RING TING SPARE REQUIR	ME (AM CAPAC ED (AM	1PS): 0 CITY: 2 1PS): 4	.276	
C	onve	ergint		M CURRENT	WITH ALA AL AMP H BATTI	ARM R OUR R ERY SIZ	RING TIN SPARE REQUIR ZE REQU	ME (AM CAPAC ED (AM JIRED (IPS): 0 CITY: 2 IPS): 4 AH):).276 25%).543 7	
C	onve	ergint		M CURRENT	WITH ALA AL AMP H BATTI	ARM R OUR R ERY SIZ	RING TING SPARE REQUIR	ME (AM CAPAC ED (AM JIRED (IPS): 0 CITY: 2 IPS): 4 AH):).276 25% J.543	
			® 1	M CURRENT	WITH ALA AL AMP H BATTI BATTI	ARM R OUR R ERY SIZ ERY CA	RING TIN SPARE REQUIR ZE REQU	ME (AM CAPAC ED (AM JIRED (PROVII	IPS): 0 CITY: 2 IPS): 4 AH):).276 25%).543 7	
				M CURRENT	WITH ALA AL AMP H BATTI BATTI	OUR RERY SIZERY CA	SPARE SPARE REQUIR ZE REQU ABINET	ME (AME (AME CAPACE CAP	IPS): 0 CITY: 2 IPS): 4 AH):).276 25%).543 7	
		-1 - AUX. PO\	® 1	TOT CIRCUIT TY DESCRIPTION	WITH ALA AL AMP H BATTI BATTI	OUR RERY SIZERY CA	SPARE REQUIR ZE REQU ABINET	ME (AME (AME CAPACE ED (AME) IRED (PROVIDER)	IPS): 0 CITY: 2 IPS): 4 AH):	0.276 25% 0.543 7 NO	TIES
CIR	CUIT N1C	-1 - AUX. PO\	WER SUMMARY	CIRCUIT TY DESCRIPTION	WITH ALA AL AMP H BATTI BATTI	OUR RERY SIZERY CA	SPARE SPARE REQUIR ZE REQU ABINET POWEF -1, UPS-	ME (AME (AME CAPACE CAP	IPS): 0 CITY: 2 IPS): 4 AH): DED:	0.276 25% 1.543 7 NO	TIES 14
CIR	CUIT N1C	-1 - AUX. PO\	VER SUMMARY SUPPLY INFORMATIO	CIRCUIT TY DESCRIPTION R (LF)	AL AMP H BATTI BATTI PE ON	OUR RERY SIZERY CA	SPARE REQUIR ZE REQUIN ABINET POWER -1, UPS-	ME (AME (AME CAPACE ED (AME) JIRED (PROVIDE CAPACE ED (AME) CAPACE ED (AME) CAPACE ED (AME)	IPS): 0 CITY: 2 IPS): 4 AH): DED:	0.276 25% 0.543 7 NO PER1	
CIR NOMII MINIM	CUIT N1C	-1 - AUX. PO\ POWER	WER SUMMARY SUPPLY INFORMATIO 19.7 LOAD FACTO	CIRCUIT TY DESCRIPTION R (LF)	AL AMP H BATTI BATTI ON OR (VDC)	OUR RERY SIZERY CA	SPARE REQUIR ZE REQUIN ABINET POWEF -1, UPS- 228 \(\Omega \)	ME (AME (AME CAPACE ED (AME) JIRED (PROVIDE CAPACE ED (AME) CAPACE ED (AME) CAPACE ED (AME)	IPS): 0 CITY: 2 IPS): 4 AH): DED:	0.276 25% 0.543 7 NO PER1	14
CIR NOMII MINIM	CUIT N1C	-1 - AUX. PO\ POWER VOLTAGE (Vdc) OLTAGE (Vdc)	WER SUMMARY SUPPLY INFORMATIO 19.7 LOAD FACTO 16 VOLTAGE W	CIRCUIT TY DESCRIPTION R (LF)	AL AMP H BATTI BATTI ON OR (VDC)	ARM RERY SIZERY CA AUX. BATT- 0.5 19.2 0.8	SPARE REQUIR ZE REQUIN ABINET POWEF -1, UPS- 228 \(\Omega \)	ME (AME (AME CAPACE ED (AME) PROVIDE CAPACE	IPS): 0 CITY: 2 IPS): 4 AH): DED: BLE PROPAUGE (AW	0.276 25% 1.543 7 NO PER1 (G)	14 3.07
CIR NOMIR MINIM	CUIT N1C	-1 - AUX. PO\ POWER VOLTAGE (Vdc) OLTAGE (Vdc)	WER SUMMARY SUPPLY INFORMATIO 19.7 LOAD FACTO 16 VOLTAGE W	CIRCUIT TY DESCRIPTION R (LF)	AL AMP H BATTI BATTI ON OR (VDC)	ARM RERY SIZERY CA AUX. BATT- 0.5 19.2 0.8	SPARE REQUIR ZE REQUI ABINET POWEF -1, UPS- 59 W 228 Ω	ME (AME (AME CAPACE CAP	IPS): 0 CITY: 2 IPS): 4 AH): DED: BLE PROPAUGE (AW	0.276 25% 1.543 7 NO PER1 (G)	14 3.07 URRENT
CIR NOMII MINIM TOTAL	NAL STARTING NUM DEVICE V SUPERVISORY	-1 - AUX. PO\ POWER VOLTAGE (Vdc) OLTAGE (Vdc)	NER SUMMARY SUPPLY INFORMATIO 19.7 LOAD FACTO 16 VOLTAGE W 0.734 TOTAL ALARI	CIRCUIT TY DESCRIPTION R (LF)	AL AMP H BATTI PE ON OR (VDC) (AMPS)	ARM RERY SIZERY CA AUX. BATT- 0.5 19.2 0.8	SPARE REQUIR ZE REQUI ABINET POWEF -1, UPS- 59 W 228 Ω NDBY C (mA	ME (AME (AME CAPACE CAP	IPS): 0 CITY: 2 IPS): 4 AH): DED: BLE PROD AUGE (AW CFEET (OH	25% 1.543 7 NO PER1 (G)	14 3.07 URRENT

APS10A NAC 1C - Battery Calculation

SPARE CAPACITY (%)

POWER SUPPLY DESIGNATOR NAC POWER SUPPLY PREFIX 1C STANDBY DURATION REQUIRED (HRS) 4

PANEL LOCATION LEVEL 1 AREA SERVED LEVEL 1

CALCULATIONS ASSUME POWER SUPPLIES ARE SUPPORTED BY AN EMERGENCY

IF GENERATOR SUPPORTED CIRCUITS ARE NOT AVAILABLE< ADDITIONAL POWER

GENERATOR CAPABLE OF 24 HOURS OF RUNTIME.

POWER SUPPLY DESIGNATOR NAC				POWER SUPPL	Y PREFIX	11	1D STANDBY DURATION REQUI				IRS) 4
PANEL	LOCATION	LEVEL 1					Α	LARM RING	S TIME I	REQUIRED (MII	V) 15
AREA S	SERVED	LEVEL 1					S	PARE CAPA	CITY (%	5)	25%
		POW	ER SUPPI	LY BASE LOAD)/AUXILI	ARY P	OWE	R OUTPUT			
	PART#		DESCRIPTI	ON		TY. –	SUPV.	. CURRENT	(mA)	ALARM CURR	ENT (mA)
	PARI#	'	JESCRIPTI	ON	٧	11.	EAC	н то	TAL	EACH	TOTAL
	APS10A AUXILIARY BOOS		ER POWER	R SUPPLY		1	70	1	70	270	270
,	APS AUX	BPS CIRCUITS SET	O XUA O	UTPUT		1	35	3	35	35	35
5	SIGA-CT1	DUAL INPUT MOD	JLE			1	0.39	6 0.	396	0.68	0.68
				NAC/AUX	(OUTPU	TS					
NAC/	AUX OUTPUTS		55000	-			SUPV.	. CURRENT	(mA)	ALARM CURR	ENT (mA)
CKT. #	TYPE	1	DESCR	IPTION				TOTAL		TOTA	ıL.
1	AUX. POWER	ASD FW-1.1, ASD F	W-1.2, AS	SD FW-1.3				1733		1868	3
2	SPARE	SPARE						0		0	
3	SPARE	SPARE						0		0	
4	SPARE	SPARE						0		0	
C	onv	ergint	•		т	OTAL A	BATTE	SPAI OUR REQU ERY SIZE REG ERY CABINE	QUIRED	MPS): 9.87 (AH): 10	1
					CIRCUIT	TYPF		AUX. POW	FR		
CIF	RCUIT N1D)-1 - AUX. PO\	NER SU	JMMARY	DESCRIP					W-1.2, ASD FV	V-1.3
		POWER	SUPPLY	INFORMATIO					1	ABLE PROPE	
NOMI	NAL STARTING	VOLTAGE (Vdc)	19.7	LOAD FACTO	R (LF)			0.59	WIRE	AUGE (AWG)	14
MININ	NUM DEVICE V	OLTAGE (Vdc)	16	VOLTAGE W	/LOAD FA	CTOR	(VDC)	18.59788	Ω PER 1	LK FEET (OHMS	3.07
TOTAL	SUPERVISOR	CURRENT (AMPS)	1.733	TOTAL ALARI	M CURRE	IA) TV	MPS)	1.868			
								STANDBY			CURRENT
PA	ART#		DEVICE			Q	TY		nA)		nA)
	10 D (EE) VEC	DA E ACDIDATOR ©	EAN CETT	TINC F		1	1	EACH	TOTA		TOTAL
\/FD *	TO-5 (F2) AF2[DA-E, ASPIRATOR @	FAN SEL	IING 5			1 2	417 658	417 131		484 1384
	U-A10 VESI	DA-E VEU									

City of Puyallup
Development & Permitting Services
ISSUED PERMIT Engineering Public Works

convergint

450 Shattuck Avenue South, Renton, Washington 98057 Phone: 425-272-2250 Fax: 425-251-0949

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REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU
DRAW			

 PROJECT DESIGNER:
 JACOB U.

 PROJECT MANAGER:
 CHARITY W.

 JOB NUMBER:
 US01-J00229129

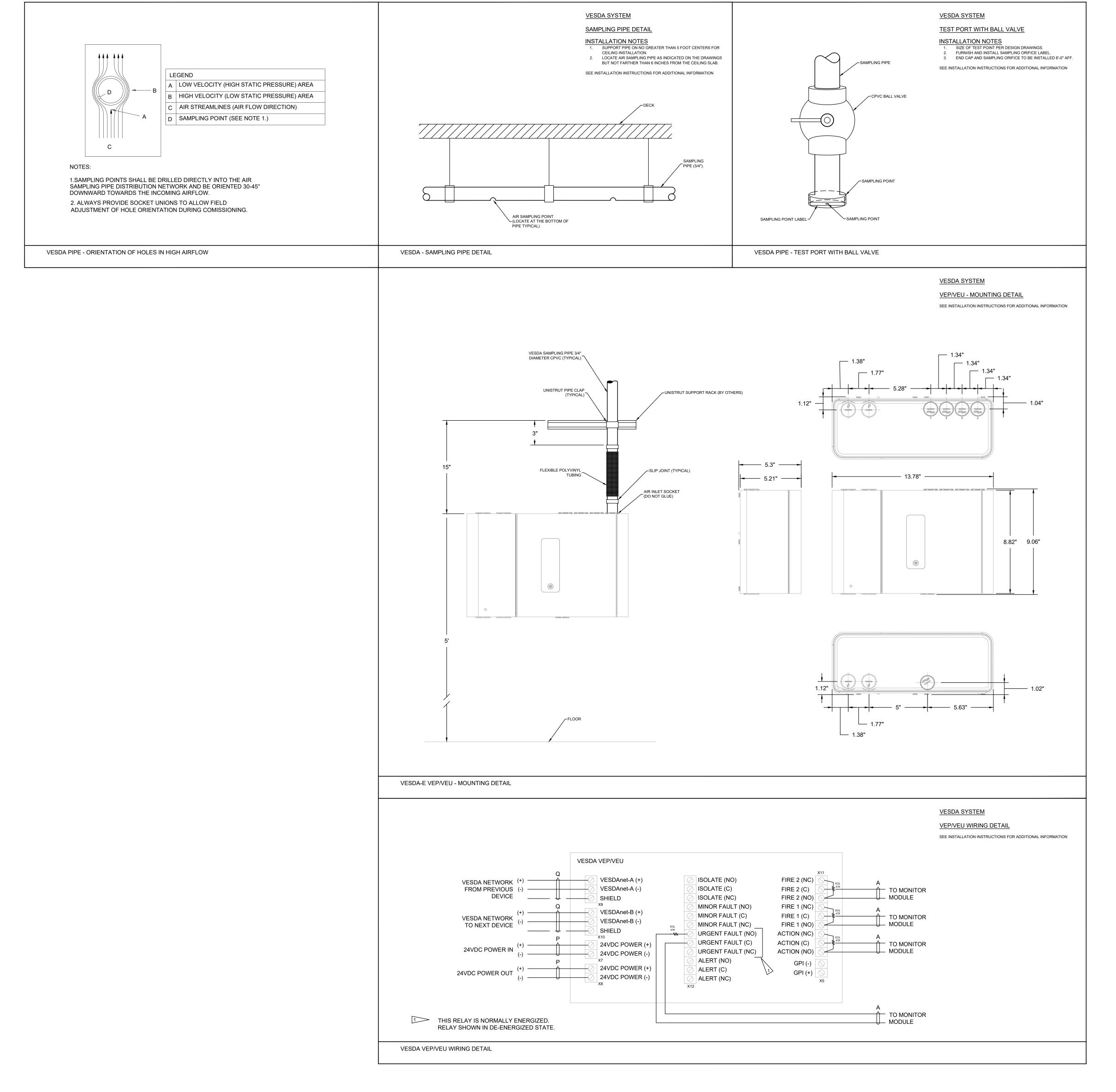
 SCALE:
 AS SHOWN

 DATE:
 04/11/2024

CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

FA-5-1

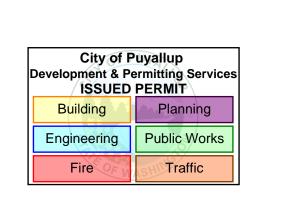
CALCULATIONS FIRE ALARM SYSTEM



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REV	JOB# - DESCRIPTIO	N DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU

 DRAWN BY:
 OBADIAH R.

 PROJECT DESIGNER:
 JACOB U.

 PROJECT MANAGER:
 CHARITY W.

 JOB NUMBER:
 US01-J00229129

 SCALE:
 AS SHOWN

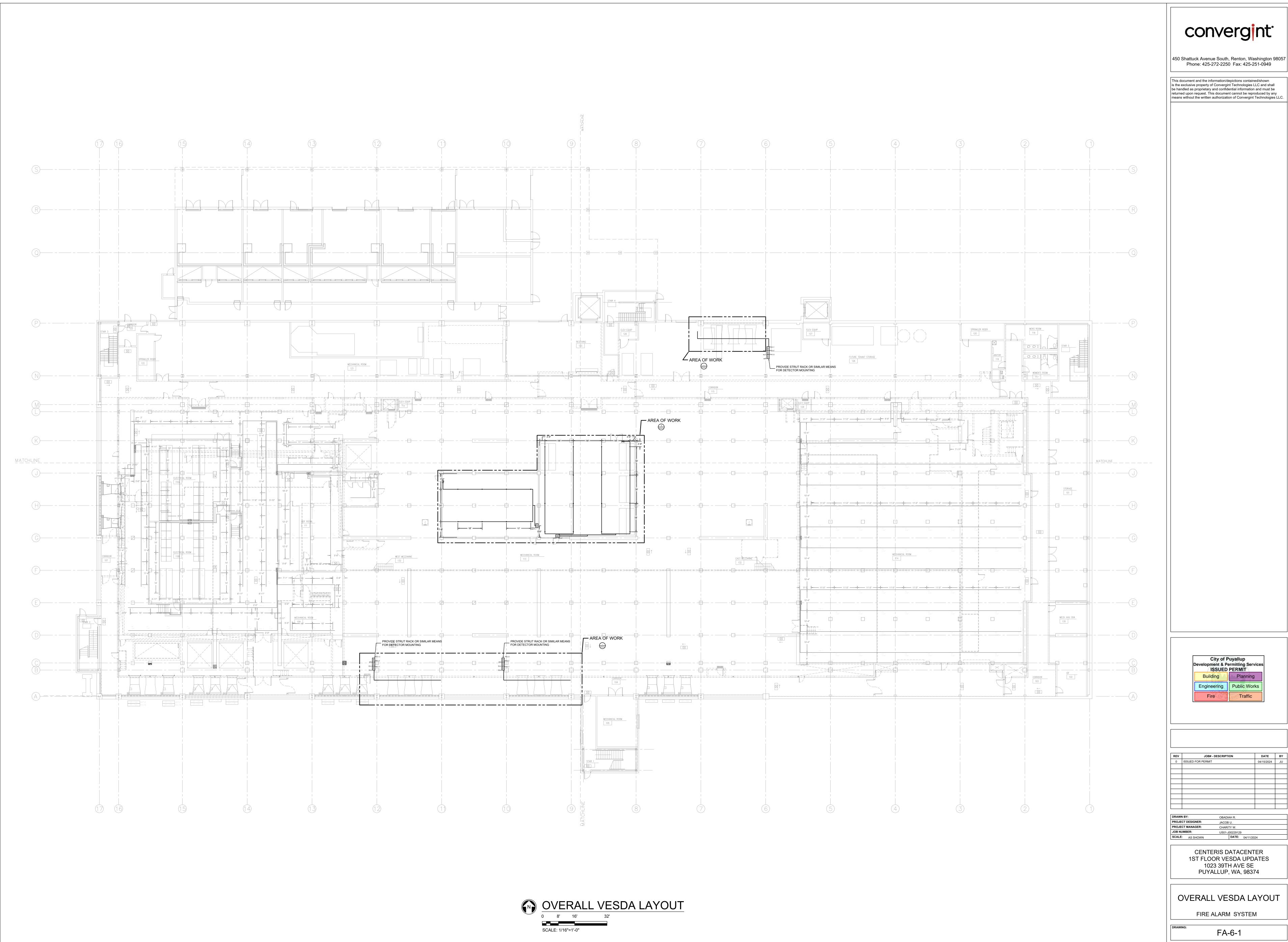
 DATE:
 04/11/2024

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VESDA DETAILS

FIRE ALARM SYSTEM

FA-6-0



OVERALL VESDA LAYOUT

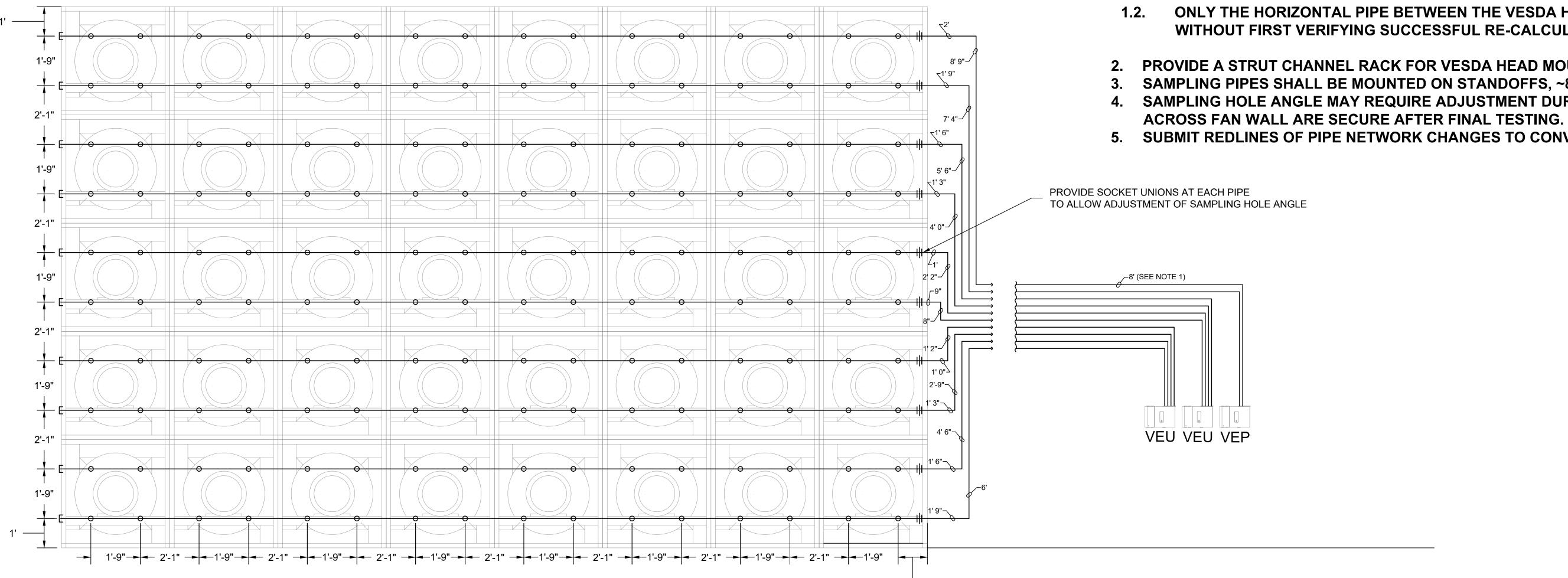
VESDA INSTALLATION NOTES:

1. DIMENSIONS PROVIDED ON PLANS ARE PRECISE TO +/- 3"

- 2. DEVIATIONS FROM PLANS DUE TO FIELD CONDITIONS MUST BE REDLINED AND RETURNED TO CONVERGINT PRIOR TO COMMISSIONING. VARIATIONS GREATER THAN 3' OR THE ADDITION OF ELBOWS SHOULD BE REPORTED BACK TO CONVERGINT PRIOR TO COMPLETION OF
- INSTALLATION FOR RE-CALCULATION. 3. SUPPORT PIPE ON NO GREATER THAN 5 FOOT CENTERS FOR CEILING INSTALLATION.
- 4. GLUE PIPE WITH THE APPROPRIATE ADHESIVE ON THE OUTSIDE OF THE PIPE. DO NOT ALLOW ANY ADHESIVE INSIDE PIPE.
- 5. DO NOT GLUE PIPE INTO THE VESDA DETECTOR MANIFOLD.
- 6. REMOVE ALL DUST AND SHAVINGS FROM INSIDE PIPE AND SAMPLING HOLES PRIOR TO INSTALLATION.
- 7. VERIFY HOLE LOCATION AND SIZE ACCORDING TO VESDA CALCULATIONS BEFORE DRILLING.
- 8. ORIENT DRILL PERPENDICULAR TO PIPE TO ENSURE HOLES ARE DRILLED STRAIGHT AND NOT AT
- 9. INSTALL LABELS AT EACH SAMPLING HOLE.
- 10. INSTALL PIPE LABELS EVERY 20', AND AT EVERY CHANGE OF DIRECTION PER NFPA 72.
- 11. NOTIFY CONVERGINT OF ANY FIELD RELATED OBSTRUCTIONS WHICH COULD EFFECT PIPE PLACEMENT OR ABILITY FOR SOMEONE TO THE REACH SAMPLING HOLES.
- 12. NOTIFY CONVERGINT PRIOR TO MAKING ANY FIELD CHANGES TO THE PIPE NETWORK. CHANGES IN PIPING MAY RESULT IN CHANGES TO THE SAMPLING HOLE SIZES. DO NOT DRILL HOLES, OR ONLY DRILL 5/64" PILOT HOLES ONLY, IF PIPING CHANGES ARE REQUIRED PRIOR TO RECALCULATING.
- 13. MAINTAIN RED-LINE SET OF INSTALLATIONS DRAWINGS SHOWING ANY MODIFICATIONS TO THE PIPE NETWORK AND DELIVER TO CONVERGINT PRIOR TO FINAL TESTING.
- 14. ALL VESDA PIPING SHALL BE 3/4" CPVC. UNLESS OTHERWISE NOTED 15. REFERENCE VESDA PIPING CALCULATIONS FOR PROGRAM SETTINGS REQUIRED TO CONFIGURE THE DETECTOR.

<u>LEGEND</u> =VESDA SAMPLING HOLE =VESDA CAPILLARY & CAPILLARY TUBE =VESDA DETECTOR HEAD =TEST POINT BALL VALVE — =VESDA PIPE | = SOCKET UNION ASD =VEP 4-PIPE DETECTOR ASD =VEU 4-PIPE HIGH-VOLUME DETECTOR ASD =VEP 1-PIPE DETECTOR

ALL SAMPLING HOLES $\frac{5}{64}$ ".





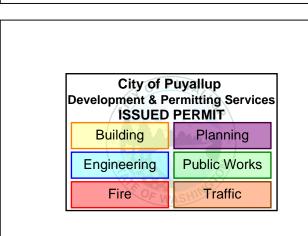
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FAN WALL VESDA NOTES:

- 1. IF REQUIRED, THE DISTANCE BETWEEN THE VESDA HEADS AND THE EDGE OF THE FAN WALL MAY BE EXTENDED UP TO 25' AND NO MORE THAN TWO ELBOWS MAY BE ADDED TO EACH PIPE.
- 1.1. OVERALL SHAPE OF PIPE NETWORK MUST REMAIN, MODIFICATIONS TO ALL 10 PIPES SHOULD MATCH.
- ONLY THE HORIZONTAL PIPE BETWEEN THE VESDA HEADS AND THE FAN WALL MAY BE EXTENDED WITHOUT FIRST VERIFYING SUCCESSFUL RE-CALCULATION WITH CONVERGINT.
- 2. PROVIDE A STRUT CHANNEL RACK FOR VESDA HEAD MOUNTING.
- SAMPLING PIPES SHALL BE MOUNTED ON STANDOFFS, ~8" IN FRONT OF FAN WALL.
- 4. SAMPLING HOLE ANGLE MAY REQUIRE ADJUSTMENT DURING COMMISSIONING. ENSURE ALL MOUNTS
- 5. SUBMIT REDLINES OF PIPE NETWORK CHANGES TO CONVIRGINT PRIOR TO COMMISSIONING.



	<u></u>		
REV	JOB# - DESCRIPTION	DATE	BY
0	ISSUED FOR PERMIT	04/15/2024	JU
_		_	
RAW	N BY: OBADIAH R.		
RAW	N BY: OBADIAH R.		

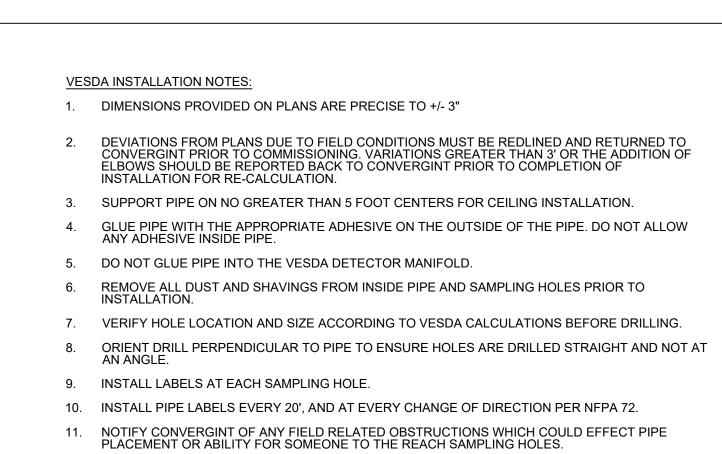
PROJECT MANAGER: CHADITY M I JOB NUMBER: CHARITY W.

> CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

TYPICAL FAN WALL LAYOUT

FIRE ALARM SYSTEM

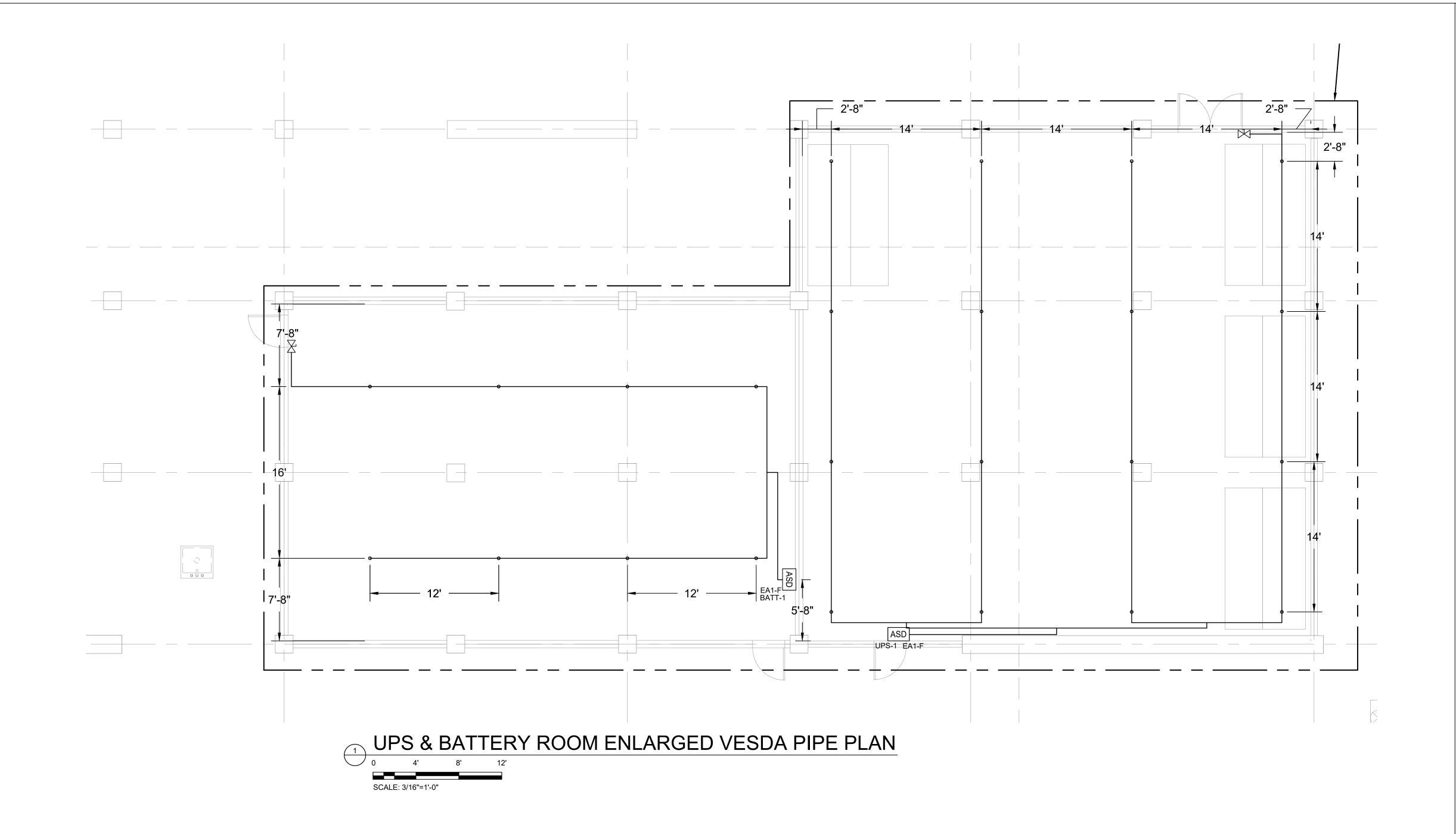
FA-6-2

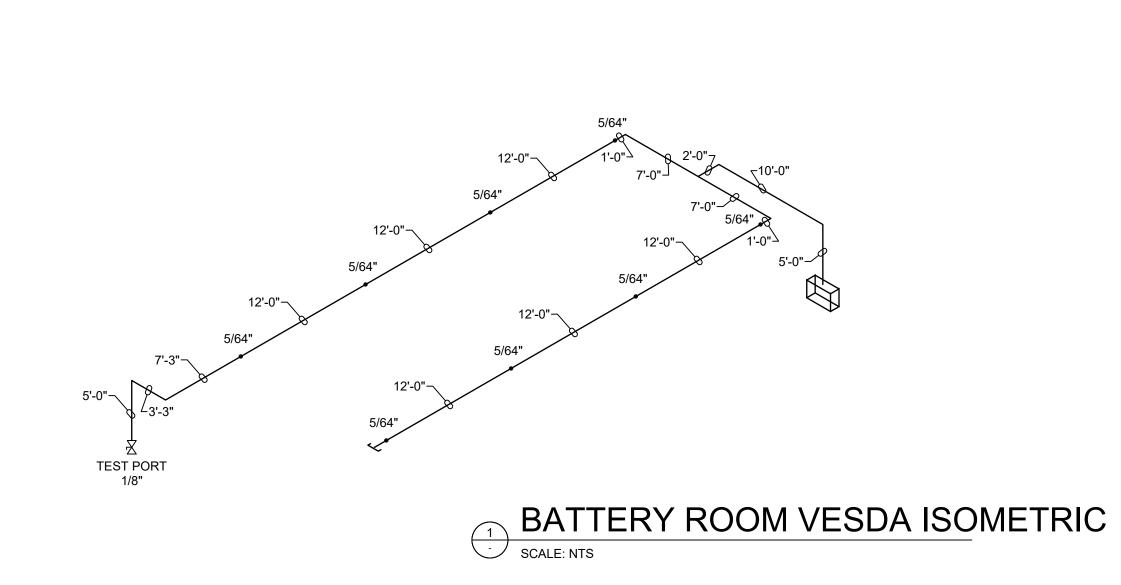


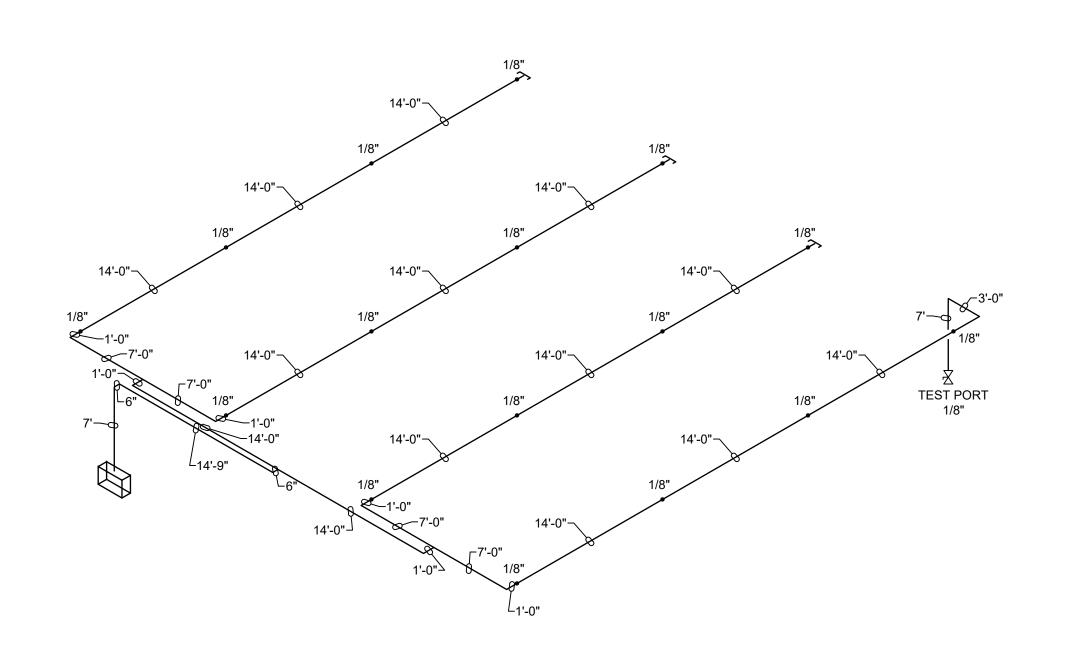
12. NOTIFY CONVERGINT PRIOR TO MAKING ANY FIELD CHANGES TO THE PIPE NETWORK. CHANGES IN PIPING MAY RESULT IN CHANGES TO THE SAMPLING HOLE SIZES. DO NOT DRILL HOLES, OR ONLY DRILL 5/64" PILOT HOLES ONLY, IF PIPING CHANGES ARE REQUIRED PRIOR TO RECALCULATING.

13. MAINTAIN RED-LINE SET OF INSTALLATIONS DRAWINGS SHOWING ANY MODIFICATIONS TO THE PIPE NETWORK AND DELIVER TO CONVERGINT PRIOR TO FINAL TESTING.

14. ALL VESDA PIPING SHALL BE 3/4" CPVC. UNLESS OTHERWISE NOTED
15. REFERENCE VESDA PIPING CALCULATIONS FOR PROGRAM SETTINGS REQUIRED TO CONFIGURE THE DETECTOR.







UPS ROOM VESDA ISOMETRIC

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

convergint

450 Shattuck Avenue South, Renton, Washington 98057

Phone: 425-272-2250 Fax: 425-251-0949

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REV	JOBa	# - DESCRIPTION	DATE	ВҮ
0	ISSUED FOR PERMI	Т	04/15/2024	JU
RAW	N BY:	OBADIAH R.		
ROJE	CT DESIGNER:	JACOB U.		

 DRAWN BY:
 OBADIAH R.

 PROJECT DESIGNER:
 JACOB U.

 PROJECT MANAGER:
 CHARITY W.

 JOB NUMBER:
 US01-J00229129

 SCALE:
 AS SHOWN

 DATE:
 04/11/2024

CENTERIS DATACENTER 1ST FLOOR VESDA UPDATES 1023 39TH AVE SE PUYALLUP, WA, 98374

ASD BATT-1 & UPS-1

FIRE ALARM SYSTEM

FA-6-3

ASD BATT-1 & UPS-1

0 4' 8' 16'

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