CENTERIS DATA CENTER BATTERY ROOM FAS SYSTEM ADDITION 1023 39TH AVENUE SOUTH EAST, PUYALLUP, WA 98374

SYMBOL	LEGEN	D			
Symbol	QTY	DESCRIPTION	MOUNTING REQUIREMENTS	SUPPLIER	
IM	4	INTELLIGENT MONITOR MODULE	4 SQUARE DEEP	NOTIFIER F	M
7	2	CEILING HORN w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING	4 SQUARE DEEP; CENTER ON CEILING TILE G	SYSTEM SENSOR	°C:
notes:					
1- DEVICE	SUBSCRIPT	NW=NEW RR=REMOVE & RELOCATE EX=EXISITNG TO	O REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG	=WIRE GUARD ISO=I	SC
2- CABLEIN	NG SHOWN	IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTEND	DED TO INDICATE THE EXACT PATHWAY.		
3- DEVICE	s shown c	ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES ANI	D MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.		
4- HORN/S	STROBE DEC	CIBLE SETTING TO BE DETERMINED ON SITE, UNLESS OTHERW	NISE NOTED ON THE DRAWINGS. CAN BE FIELD ADJUSTED AT REQUESST OF AHJ.		
5- ALL DEV	ICES WITH	A WP SUBSCRIPT WILL REQUIRE THE USE OF A OUTDOOR O	PR WP BACKBOX.		

WIRE LE							
Symbol	DESCRIPTION	THHN	FPL	FPLP	WET	COLOR CODING	CIRCUIT TYPE
С	1 PAIR 14AWG FIRE RATED CABLE	YES	972	60993B	AQ226		AUDIBLE (NAC) CIRCUI
D	1 PAIR 16AWG FIRE RATED CABLE	YES	971	60991B	AQ225		DATA (SLC) CIRCUIT
NOTES:							

1- WIRE MANUFACTURER IS FOR REFERENCE PURPOSE ONLY. WHEN USING OTHER MANUFACTURE, ENSURE PROPER CROSS REFERENCE

2- FPLP CAN BE USED IN MOST ALL APPLICATIONS WITH THE EXCLUSION OF WET AND CIRCUIT INTEGRITY REQUIREMENTS

3- INSTALL WIRING PER NEC. USE CABLE TYPE CONSISTENT WITH NEC REQUIREMENTS, IE: PLENUM, RISER, UNDERGROUND, ETC.

4- THE "Y" FIBER OPTIC CABLE LISTED IS A BELDEN CABLE PART NUMBER AS WEST PENN NO LONGER SUPPORTS FIBER OPTIC CABLE 5- THIS CABLE MUST BE INSTALLED IN A CONTINUOUS PATH POINT-TO-POINT. ABSOLUTLEY NO SPLICES ARE ALLOWED.

6- THIS IS A SPECIFIC CABLE, NO ALTERNATES ARE ALLOWED

FLAGNC	LAGNOTES					
NOTE #	DESCRIPTION					
30	INSTALLATION OR INTERFACE LOCATION TO BE DETERMINED/VERIFIED ON-SITE					
36	DEVICE ADDRESS ARE TO BE ASSIGNED BY FA CONTRACTOR & SET BY ELECTRICIAN FIELD TECHNICIAN ONCE ON-SITE					
39	MODULE TO MONITOR MANUFACTURER SUPPLIED DUCT DETECTOR (SUPERVISORY)					
45	ROUTE SLC CABLE FROM NEAREST ADDRESSABLE DEVICE OR FACP					
10						

46 LOOP/EXTEND NAC CIRCUIT TO ADDED DEVICE AND RETURN TO ORIGIN EXISTING NAC DEVICE

Control Panel:		ery Load & Back-up Calculation							
		FACP							
Location: ON			ON-SITE						
FA	CP Type:	AMPS-24 (Panel PS)			Each	Each	Total	Total	
Line #	Qty:	Part #:	Description:		Standby	Alarm	Standby	Alarm	
1	1	CPU2-3030D	Fire Alarm Control Panel: 10 SLC Loops, 3180 SLC Devices (CPU Only) 0.3400 0.3400			0.3400			
2	2	LCM-320		SLC Loop Control Module 0.1300 0.1300 0.2600			0.2600		
3	2	LEM-320		Expander Control Module	0.1000	0.1000	0.2000	0.2000	
4	257	FSP-951	•	hotoelectric Smoke Detector: White	0.0002	0.0045	0.0514	1.1565	
5	1	FSI-851	•	nization Smoke Detector: White	0.0003	0.0065	0.0003	0.0065	
6	3	FST-951	Intelligent H	eat Detector - 135' Fixed Temp: White	0.0002	0.0045	0.0006	0.0135	
7	261	B300-6	Intelligent Detector Base: White 0.0000 0.0000 0.0000			0.0000			
8	12	OSI-90	Beam Detector Imager: 80deg Field of View, 20-111ft or 39-223ft (Low & High Power)0 0.0070 0.0840			0.0840			
9	87	DNR	Duct Detector Housing 0.0000 0.0000 0.0000			0.0000			
10	87	FSP-951R	Intelligent Photoelectric Smoke Detector for DNR Duct Smoke Housing 0.0003 0.0065 0.0261			0.5655			
11	44	NBG-12LX	Addressable Manual Pull Station 0.0004 0.0050 0.0165			0.2200			
12	16	FMM-1	Addressable Monitor Module 0.0004 0.0050 0.0064			0.0800			
13	1	FMM-101	Addressable Mini Monitor Module 0.0004 0.0004 0.0004			0.0004			
14	33	FDM-1	Addressable Dual Monitor Module 0.0002 0.0064 0.0079			0.2112			
15	102	FCM-1	Addressable Control Module (NAC) 0.0004 0.0065 0.0398		0.6630				
16	32	FRM-1	Addressable Relay Module 0.0002 0.0065 0.0074		0.2080				
17	2	XP10-M	XP Module - 10 Class A/B Inputs 0.0035 0.0550 0.0070		0.1100				
		·			Total C	Current Draw:	1.0477	4.1186	
		CALC for FACP:		FACP Max P.S. Rating: 5,000 Total A	mps Required:	4.119	% Used:	82%	
						4.115	// 0300.	0270	
		Hours Standby	24	Total Standby Current: 1.0477	Total	Amp Hours Re	equired (AH):	25.1	
		Minutes Alarm	5	Total Alarm Current: 4.1186	Total Ar	mp Minutes Re	equired (AH):	0.3	
		Backup Generator?	Unknown		Minimun	Battery Size N	leeded (AH):	25.5	
		Voice Evacucation?	No	Spare Circuit Capacity: 20%				6.4	
			1						

Spare Battery Load Factor: 25%

No

MAXIMUM CHARGER CAPACITY IS: 200 AH

City of Puyallup Fire REVIEWED FOR COMPLIANCE DDrake 08/21/2024 2:08:51 PM

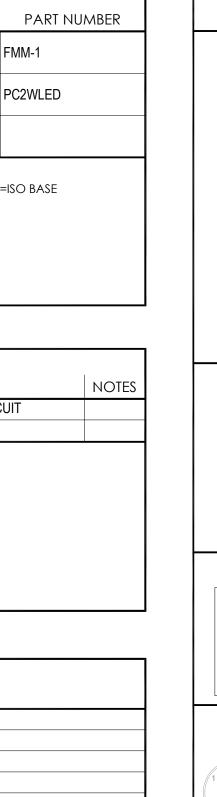
THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.

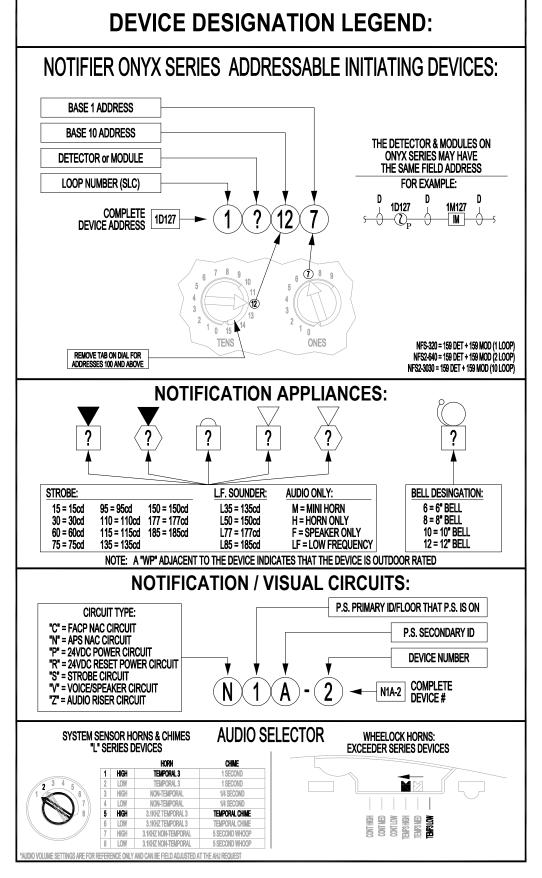
Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

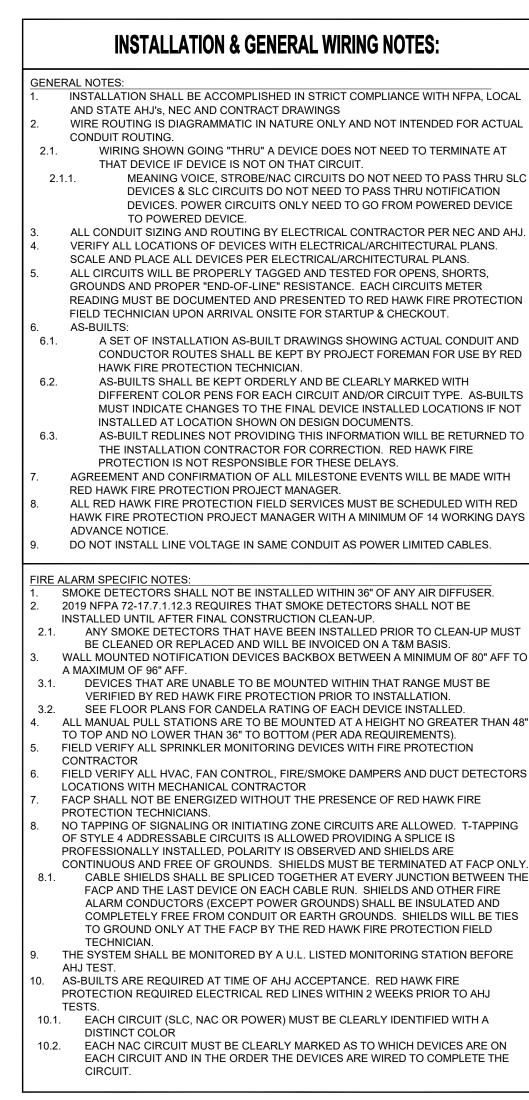
City of Puyallup Development & Permitting Services ISSUED PERMIT					
Building	Planning				
Engineering	Public Works				
Fire	Traffic				

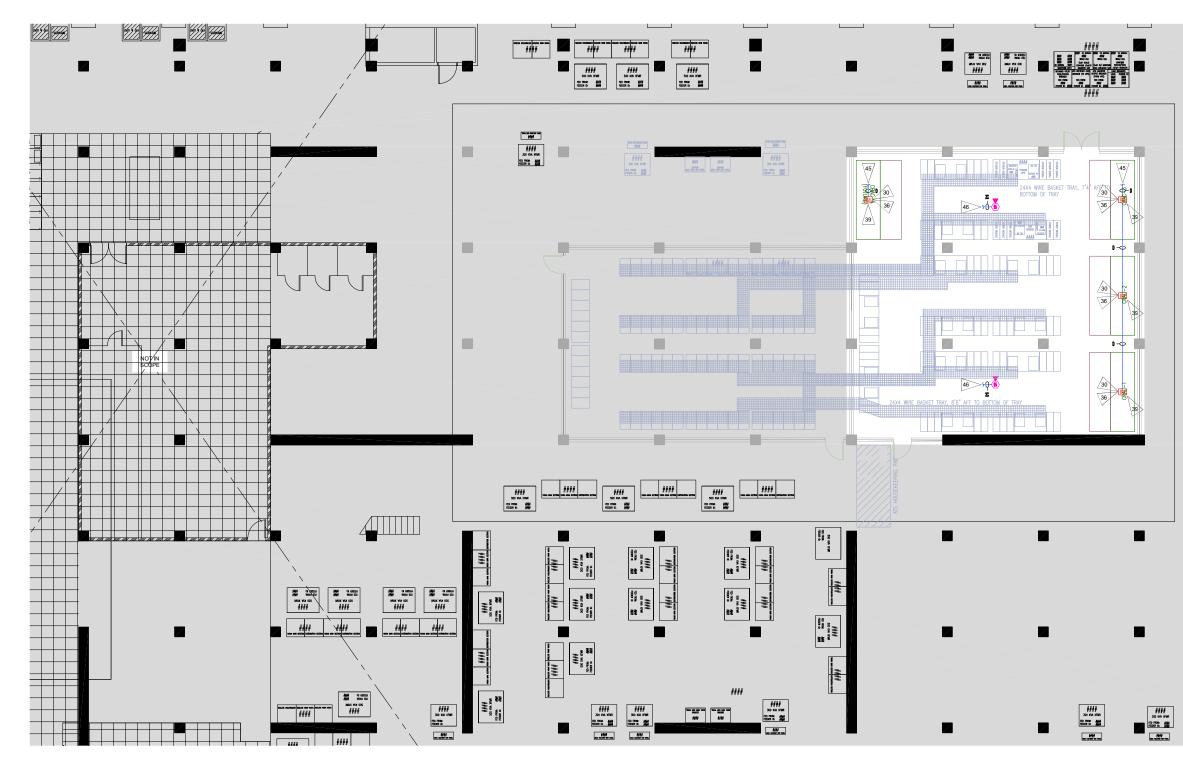
Actual Battery Size Required (AH): 31.9

Total AH Rated Batteries Supplied: = 35.0









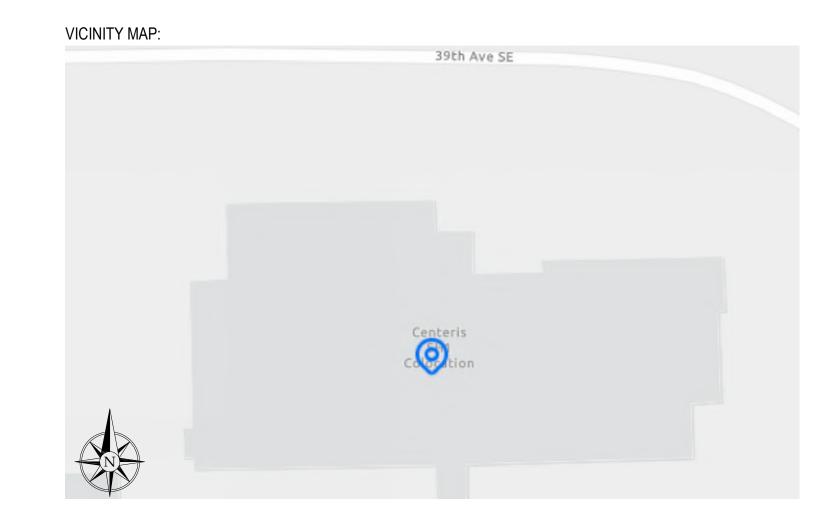
1 LEVEL 1 BATTERY ROOM FLOOR PLAN SCALE: NOT TO SCALE

SYMBOL	& WIRE S	STYLE IDENTIFICATION
J-BOX	2C,D V	WIRE/CABLE INDENTIFIER 2C = 2 TYPE "C" CABLES D = 1 TYPE "D" CABLE
S OPEN CABLES	S RACEWAY C	CABLE INSTALLATION TYPES
Ş[]⟨̈́⟩		DEMO OR REMOVE EQUIPMENT FROM SERVICE
Ş— — 2HR — — —	- − 2HR — → F 1	RACEWAY REQUIRED TO BE INSTALLED UTILIZING 1 of 3 NEC APPROVED 2HR METHODS OF PROTECTIOI
S	···—··—· • •	AC POWER (120, 240 or 480VAC)
	(ENLARGED VIEW BOUNDRY TOP LINE INDICATES THE DETAIL # BOTTOM LINE INDICATES THE SHEET #
-/\\- END of LINE RESISTOR		_ II
FLAG NOTE	SHEET NOTE	EQUIPMENT NOTE
2	DA ROOM, AREA C One Boundries Hr Rated Wall Hr Rated Wall	OR FULL HEIGHT WALL PARTIAL HEIGHT WALL

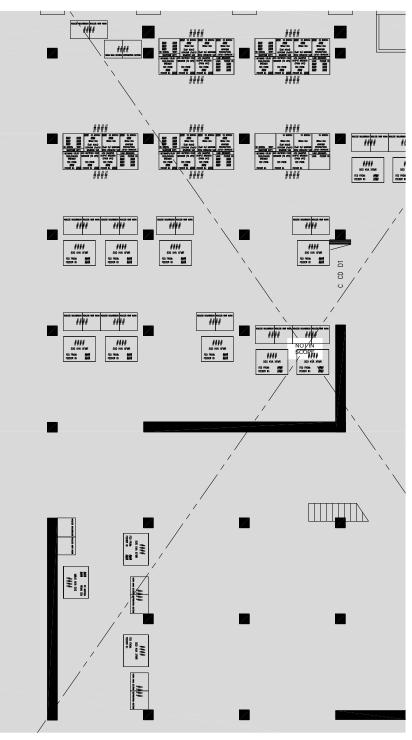
PROJECT CONTACT INFORMATION:				
CUSTOMER:				
NAME: BURKE ELEC	TRIC			
ADDRESS: 12605 44TH P	ч s			
TUKWILA, WA	4 98178			
CONTACT: PETE KELLY				
PHONE: 425-241-7676				
FAX:				
EMAIL: pkelly@burkee	electric.com			
FIRE ALARM / LIFE SAFETY	PROVIDER:			
NAME: RED HAWK FI	RE PROTECTION			
ADDRESS: 917 134TH AV	E SW SUITE B-3			
EVERETT, WA	98204			
PHONE: 425-818-3313				
FAX:				
SALESMAN: JEREMY MU	JNSON JeremyM@redhawkfp.com EXT:			
PM: JAMES PAN	JamesP@redhawkfp.com EXT:			
DESIGNER: SEAN FODO	OR SeanF@redhawkfp.com EXT:			

SCOPE OF WORK & DESIGN BASIS

MONITOR MODULES ADDED TO MONITOR (SUPERVISORY) MANUFACTURER SUPPLIED DUCT DETECTORS. ADDRESSES TO BE ADDED ON SITE BY TECHNICIAN. 2 CEILING MOUNTED HORN/STROBES TO BE ADDED IN THESE AREAS TO TO ENSURE COMPLETE COVERAGE. NEW HORN/STROBES AND MONITOR MODULES TO BE DIRECT REPLACEMENT OF DEMOLISHED DAMAGED (LOST TO FIRE INCIDENT) ONES AND MAINTAIN CIRCUIT INTEGRITY BY MAINTAINING SAME CIRCUIT PLACEMENTS/TERMINATIONS OF PREVIOUS DEVICES.



LEVEL 1:



SCALE: ¹/₈" = 1'-0" 16 8 6 4 2 0

RED HAWK FIRE PROTECTION, LLC 917 134TH AVE SW, STE B-3 EVERETT, WA 98204 PHONE: (425) 818-3313 WA CL# REDHAHF901QP WA EL# REDHAHF803QD NICET Stamp NICET CERTIFICATION THESE FIRE ALARM DRAWINGS HAVE BEEN REVIEWED BY: MIKE SERESUN FIRE PROTECTION ENGINEERING TECHNOLOGY FIRE ALARM SYSTEMS - LEVEL III NICET CERTIFICATION # 101668 CERTIFICATION EXPIRES - 11/01/2024 Approvals Required Revisions ISSUE DATE BY DESCRIPTION <u>08/19/2024</u> <u>SDF</u> <u>PERMIT SUBMITTAL SET</u> Contract With BURKE ELECTRIC 12605 44TH PL S TUKWILA, WA 98178 Contract Name CENTERIS DATA CENTER BATTERY ROOM 1023 39TH AVENUE SOUTH EAST PUYALLUP, WA 98374 FAS SYSTEM ADDITION Sheet Title **PROJECT INFO**, DETAILS, CALCS & FAS LAYOUT Key Plan 08/19/2024 Date: 390036 Job Number: SEAN D. FODOR Designer: Building Permit: Sheet Number **FA-0.00** SHEET 1 OF 1