## CENTERIS DATA CENTER

## FIRE ALARM SYSTEM ADDITION

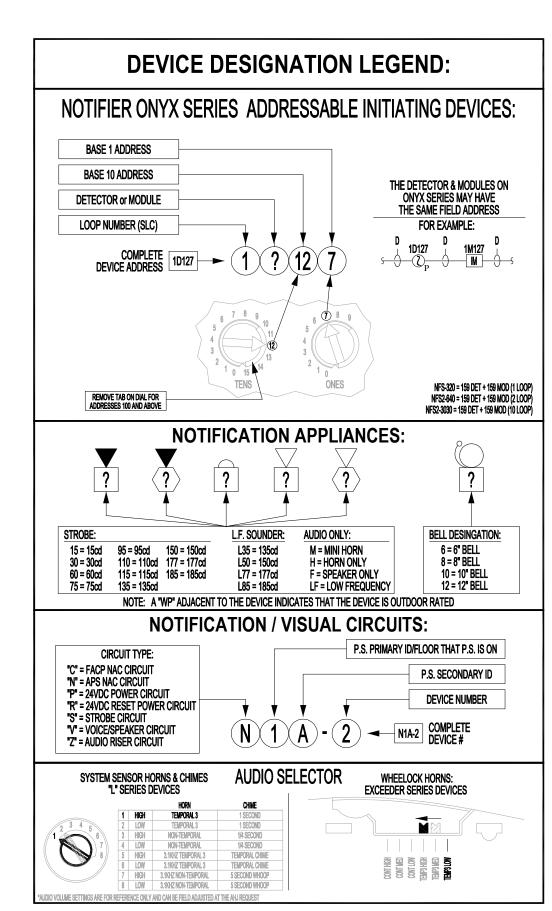
**1023 39TH AVE SE, PUYALLUP, WA 98374** 

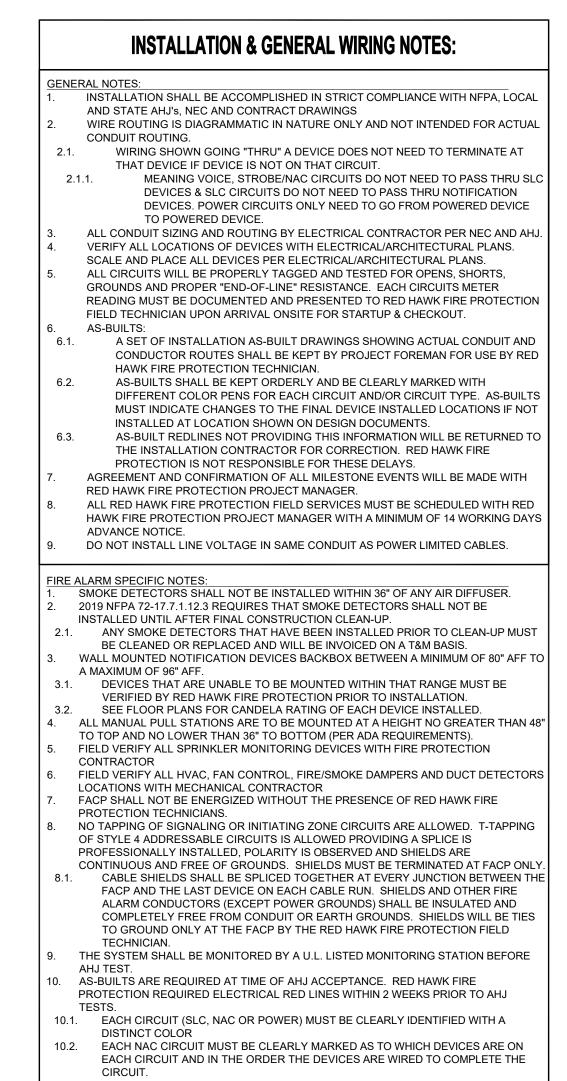
- EXISTING CEILING HORN W/ STROBE: WHITE  4 WALL HORN W/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE of SETTING  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM SYSTEM SENSOR P2WLED  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM SYSTEM SENSOR SYSTEM	WALL HORN w/ STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE cd SETTING  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM SYSTEM SENSOR P2WLED  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM SYSTEM SENSOR P2WLED  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM SYSTEM SENSOR SWLED  5 SEE DEVICE DESIGNATION FOR STROBE cd SETTING  5 SEE DEVICE DESIGNATION FOR STROBE cd SETTING  5 SET DEVICE DESIGNATION FOR STROBE cd SETTING	SYMBOL	QTY	DESCRIPTION	MOUNTING REQUIREMENTS	SUPPLIER	PART NUMBER
SYSTEM SENSOR P2WLED  WALL STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE CONSTRUBE C	4 SEE DEVICE DESIGNATION FOR STROBE & SETTING  2 WALL STROBE: WHITE SEE DEVICE DESIGNATION FOR STROBE & SETTING  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM  SYSTEM SENSOR  P2WLED  4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM  SYSTEM SENSOR  SYSTEM SENSOR  P2WLED  SYSTEM SENSOR  P2WLED  OF CHARLES OF CHAR	EX ?	-	EXISTING CEILING HORN w/ STROBE: WHITE	EXISTING	SYSTEM SENSOR	PC2WL
SYSTEM SENSOR SWLED  OTES:  1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISITING TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD ISO=ISO BASE	2 SEE DEVICE DESIGNATION FOR STROBE & SETTING  DIES:  1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISITING TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD ISO=ISO BASE  2- CABLEING SHOWN IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTENDED TO INDICATE THE EXACT PATHWAY.  3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.	?	4		4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM	SYSTEM SENSOR	P2WLED
1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISITNG TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD ISO=ISO BASE	1- DEVICE SUBSCRIPT: NW=NEW RR=REMOVE & RELOCATE EX=EXISITING TO REMAIN AC=ABOVE CEILING RB=RELAY BASE WP=WATERPROOF WG=WIRE GUARD ISO=ISO BASE 2- CABLEING SHOWN IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTENDED TO INDICATE THE EXACT PATHWAY.  3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.	î	2		4 SQUARE DEEP; MOUNTED AT 80" TO BOTTOM	SYSTEM SENSOR	SWLED
3- DEVICES SHOWN ON DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MAY NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.	4- HORN/STROBE (IF APPLICABLE) DECIBLE SETTING TO BE DETERMINED ON SITE, UNLESS OTHERWISE NOTED ON THE DRAWINGS. CAN BE FIELD ADJUSTED AT REQUESST OF AHJ.	1- DEVICE 2- CABLEIN 3- DEVICES	IG SHOWN S SHOWN (	N IS FOR CIRCUIT REFERENCE ONLY AND DOES NOT INTENDED TO DN DRAWINGS IN GRAY SCALE ARE EXISTING DEVICES AND MA'	NOT BE INCLUDED IN THIS SYMBOL LEGEND UNLESS NOTED.		D=ISO BASE

SYMBOL	DESCRIPTION	THHN	FPL	FPLP	WET	COLOR CODING	CIRCUIT TYPE	NOTES
С	1 PAIR 14AWG FIRE RATED CABLE	YES	972	60993B	AQ226		AUDIBLE (NAC) CIRCUIT	
** DIEEE	DENT COLORO/OTRIBE COMBINIATIONS TO BE II	OFF FOR DIFFERENT O	ND	-0   ADEL ALL 6	UD 01 11 TO 4 0	00000110111		
NOTES:								
	RENT COLORS/STRIPE COMBINATIONS TO BE U							
1- WIRE	MANUFACTURER IS FOR REFERENCE PURPOSE	ONLY. WHEN USING	OTHER MANU	JFACTURE, ENS	SURE PROPE	R CROSS REFERENCE		
1- WIRE 2- FPLP	MANUFACTURER IS FOR REFERENCE PURPOSE CAN BE USED IN MOST ALL APPLICATIONS WITH	E ONLY. WHEN USING ONLY. THE EXCLUSION OF V	OTHER MANU	JFACTURE, ENS CUIT INTEGRITY	SURE PROPE REQUIREMI	ER CROSS REFERENCE ENTS		
1- WIRE 2- FPLP 3- INSTA	MANUFACTURER IS FOR REFERENCE PURPOSE CAN BE USED IN MOST ALL APPLICATIONS WITH LL WIRING PER NEC. USE CABLE TYPE CONSIS	E ONLY. WHEN USING ITHE EXCLUSION OF VITENT WITH NEC REQU	OTHER MANU VET AND CIRO IREMENTS, II	JFACTURE, ENS CUIT INTEGRITY E: PLENUM, RIS	SURE PROPE ' REQUIREMI ER, UNDERG	ER CROSS REFERENCE ENTS BROUND, ETC.		
1- WIRE 2- FPLP 3- INSTA 4- THE "	MANUFACTURER IS FOR REFERENCE PURPOSE CAN BE USED IN MOST ALL APPLICATIONS WITH	E ONLY. WHEN USING OF WITHE EXCLUSION OF WITH NEC REQUIRED FOR AS WELL PART NUMBER AS WITH NECRES AS WITH NECRE	OTHER MANU VET AND CIRC IREMENTS, IE WEST PENN I	JFACTURE, ENS CUIT INTEGRITY E: PLENUM, RIS NO LONGER SU	SURE PROPE REQUIREMI ER, UNDERG PPORTS FIBI	ER CROSS REFERENCE ENTS BROUND, ETC. ER OPTIC CABLE		

FLAGN	OTES
NOTE #	DESCRIPTION
46	LOOP/EXTEND NAC CIRCUIT TO ADDED DEVICE AND RETURN TO ORIGIN EXISTING NAC DEVICE
67	RELOCATE EXISTING CIRCUIT EOL TO THIS DEVICE

Location:	APS Name: APS-1 (EXISTING)					Circuit Identifers:						
Location.	ELECTRICAL ROOM	Standby:	Alarm:	Output #1	Output #2	Output #3	Output #4	Output #5	Output #6	Output #7	Aux	
P.S. Type:	FCPS-24S8	0.0910	0.1450	NAC Sync	NAC Sync	NAC Sync	NAC Sync	Not Used	Not Used	Not Used	Power	
Part #:	Description:			N1A1	N1A2	N1A3	N1A4	X-X	X-X	X-X	X-X	Total Qt
P2WLED (75)	Wall Horn w/ Strobe set at 75cd	0.0000	0.0870	2	2							4
SWLED (75)	Wall Strobe set at 75cd	0.0000	0.0700	1	1							2
Existing Devices on C	Circuit:											
PC2WL (30)	Ceiling Horn w/ Strobe set at 30cd	0.0000	0.0900	3	3							6
	Exist	ing Circuit Lo	oad (Amps):			2.000	2.000					
			per Circuit:	6	6	0	0	0	0	0	0	12
	Total Standby Circ	uit Calculate	ed Amps (3):	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0000	0.0910
	Total Alarm Circ		,	0.514	0.514	2.000	2.000	0.000	0.000	0.000	0.0000	0.1450
Wire Gauge Used (awg): Circuit Length (ft):					14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	14AWG	Total
					300	300	300	0	0	0	0	Amps
Estimated Voltage Drop (dc):				0.80	0.80	3.12	3.12	0.00	0.00	0.00	0.00	Require
Estimated EOL Voltage (dc):					23.20	20.88	20.88	24.00	24.00	24.00	24.00	5.028
	Calculated Voltage Drop %:					13.0%	13.0%	0.0%	0.0%	0.0%	0.0%	
) Some Outdoor/WF	P Devices have the same Measured Current Draw as configured for "Doors", Output #4 shutsdown on loss			•								
,	CALC for APS-1 (EXISTING):	NAC P.S.	Max Rating:	8.000				Total An	nps Required:	5.028	% Used:	63%
,			Max Rating:	0.000				Total An		5.028 Required for S	ı	
,	CALC for APS-1 (EXISTING):	Total Stand	·	0.000				Total An	Total Hours		∎ Standby (AH):	2.18
,	CALC for APS-1 (EXISTING):  Hours Standby: 24	Total Stand	dby Current:	0.0910				Total An	Total Hours Total Hou	Required for S	Standby (AH): or Alarm (AH):	2.18 0.43
,	CALC for APS-1 (EXISTING):  Hours Standby: 24  Minutes Alarm: 5	Total Stand Total Ala	dby Current:	0.0910 5.1730				Total An	Total Hours Total Hou Minimum	Required for S	Standby (AH): or Alarm (AH): Needed (AH):	2.18 0.43





SCOPE OF WORK & DESIGN BASIS

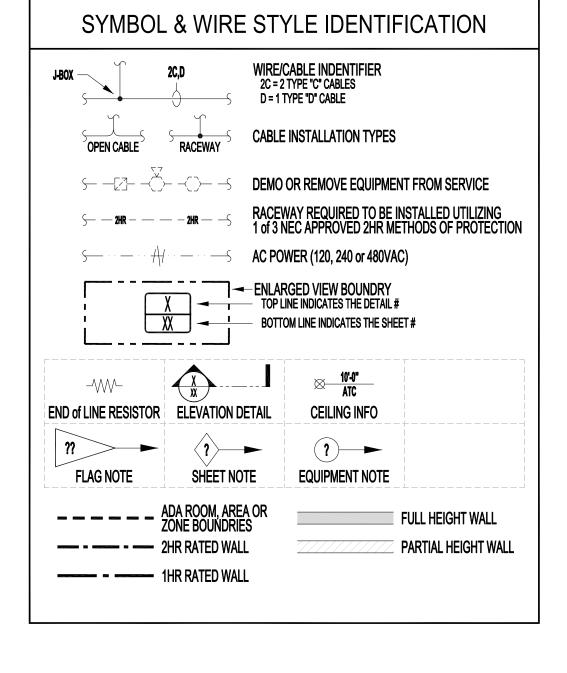
NEW DEVICES ADDED TO EXISTING CIRCUIT TO ENSURE TOTAL COVERAGE AFTER FLOOR PLAN CHANGE. EXISTING NOTIFIER FCPS24-S8 TO BE UTILIZED. NEW DEVICES ADDED TO EXISTING END OF CIRCUIT(S), EOL(S) TO BE RELOCATED TO NEW END OF CIRCUIT(S).

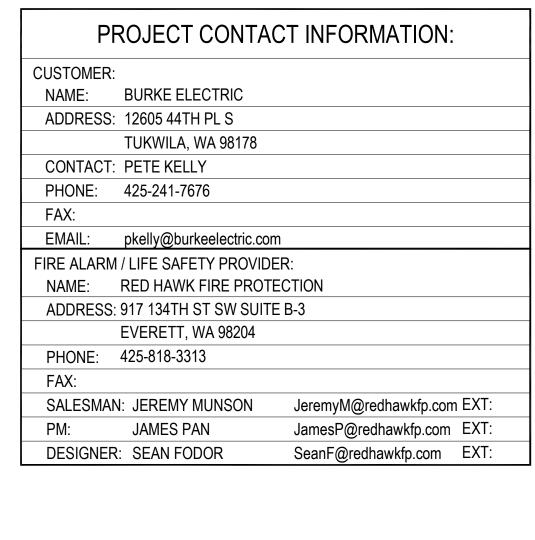
UNCHANGED. AREAS OF WORK SHOWN IN THESE DRAWINGS ARE ONLY

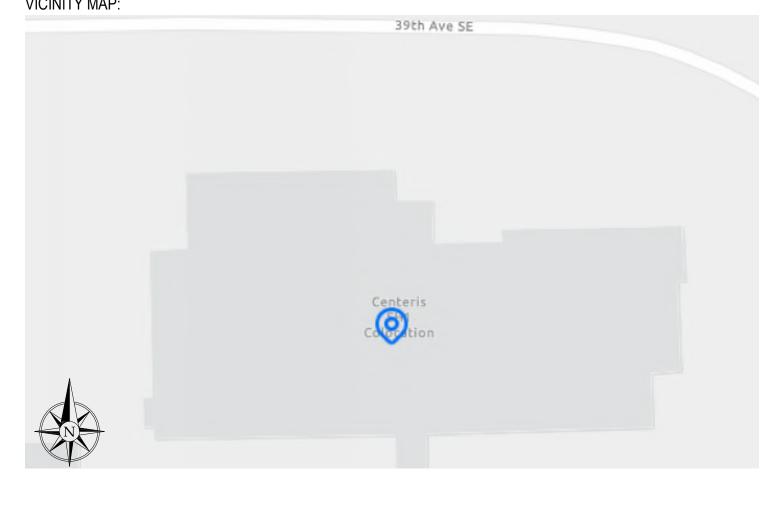
EXISTING SEQUENCE OF OPERATIONS TO REMAIN IN PLACE AND

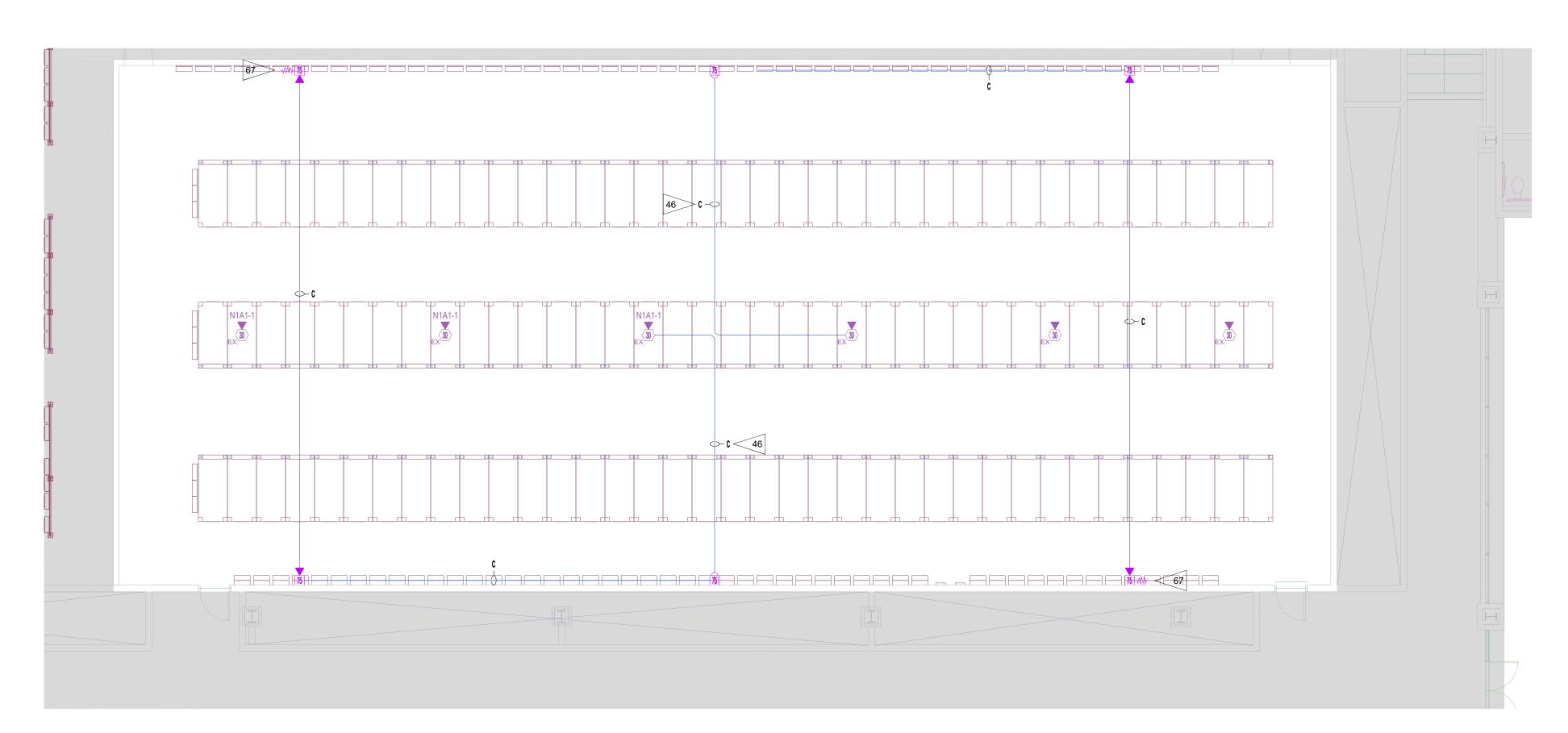
AREAS WITHIN RED HAWK FIRE PROTECTION'S SCOPE.

















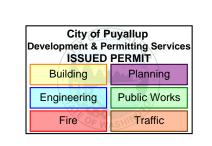
THESE FIRE ALARM DRAWINGS HAVE BEEN REVIEWED BY: MIKE SERESUN FIRE PROTECTION ENGINEERING TECHNOLOGY

FIRE ALARM SYSTEMS - LEVEL III

NICET CERTIFICATION # 101668

| CERTIFICATION EXPIRES - 11/01/2027

Approvals Required



Revisions ISSUE DATE BY DESCRIPTION <u>04/17/2025</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

1023 39TH AVE SE PUYALLUP, WA 98374

FIRE ALARM SYSTEM ADDITION

PROJECT INFO, **CALCULATIONS & FAS LAYOUT** 

FA-1.00 SHEET 1 OF 1

SCALE: \frac{1}{8}" = 1'-0" 8 6 4 2 0