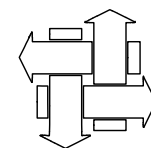




BERKSHIRE GREY  
140 SOUTH RD  
BEDFORD, MA 01730



# Horlick™





Company / customer	BERKSHIRE GREY
Project description	BG119609
Created on	2/27/2024
Edit date	5/23/2025
REV.	D

<div> <div>REVISONS</div> <div>DATEDESCRIPTIONAPPR.</div> </div>			<div>DRAWN BY</div> <div>RC</div>	<div>DATE</div> <div>02/27/2024</div>	<div>CONFIDENTIALITY NOTE:</div> <div>The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.</div> <div>    </div>	<div>TITLE</div> <div> <div>BG119609</div> <div>CONTROL PANEL</div> </div>	<div>DWG NO.</div> <div>D-BG-119609</div>	<div>REV</div> <div>D</div>
			<div>CHK BY</div>	<div>DATE</div>		<div>CLIENT</div> <div>BERKSHIRE GREY</div>	<div>JOB NO.</div> <div>N/A</div>	<div>SCALE</div> <div>N/A</div>
			<div>APPR BY</div>	<div>DATE</div>			<div>N/A</div>	<div>SIZE</div> <div>B</div>
								<div>SHEET 1 OF 1</div>

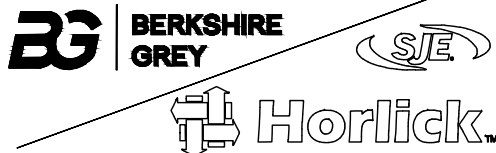


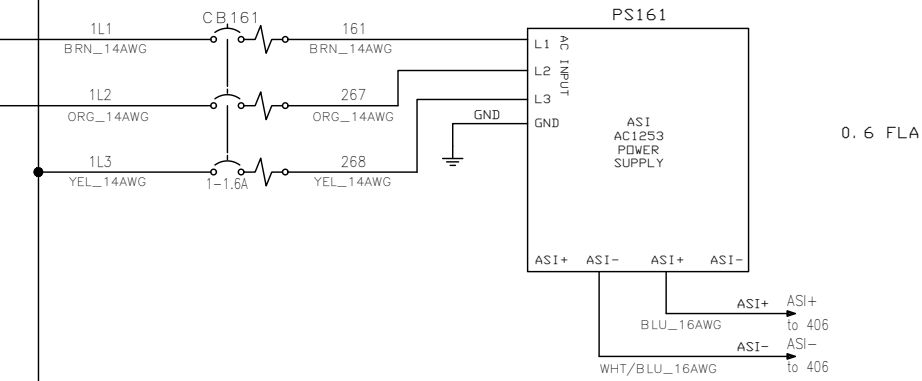
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DATE	DESCRIPTION	APPR.							
			CHK BY	DATE					SCALE N/A
			APPR BY	DATE					SIZE B
							CLIENT BERKSHIRE GREY	JOB NO. N/A	SHEET iii OF 16

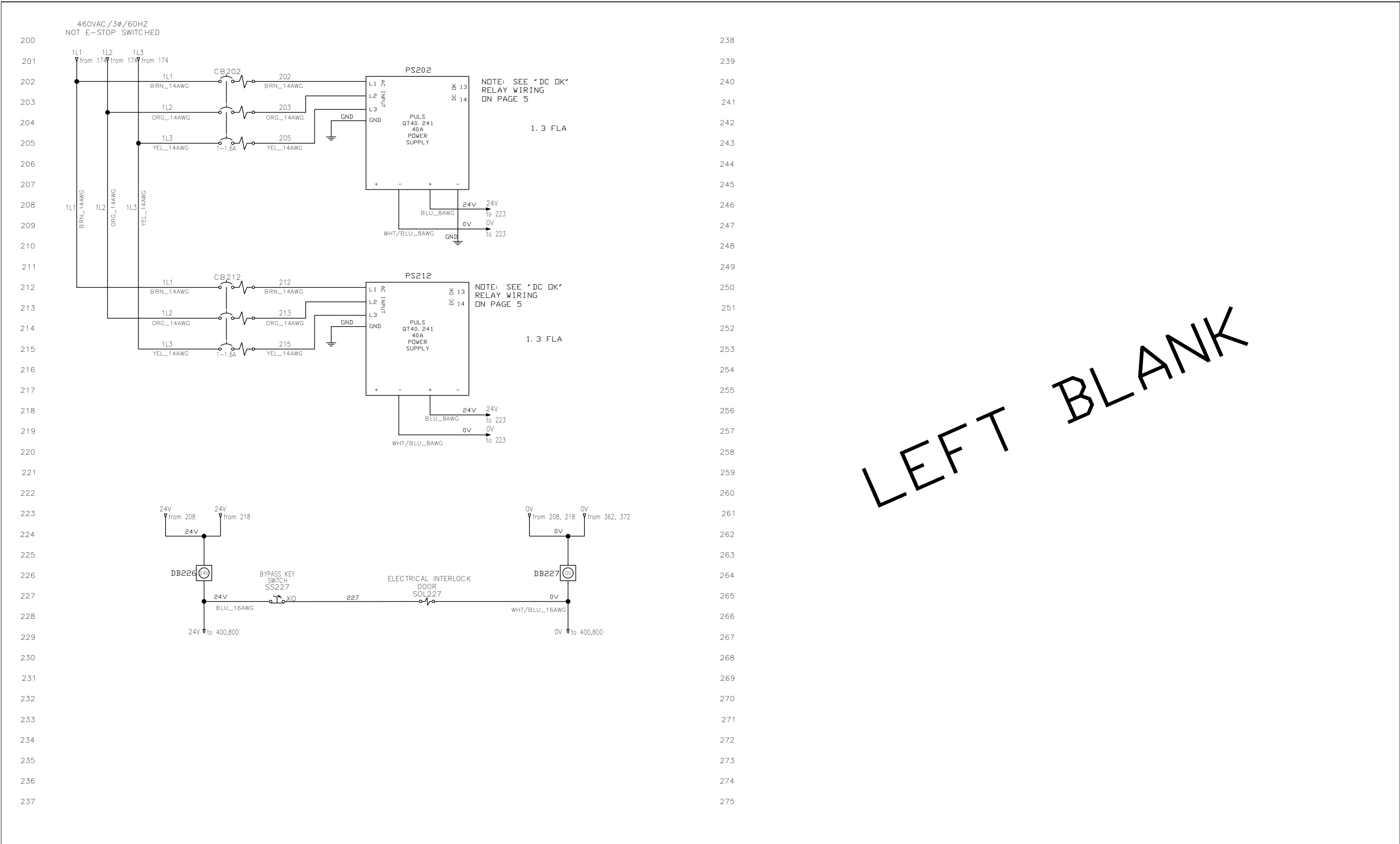
SYMBOLS & LEGEND




	WIRE CONNECTION POINT		FUSE		RELAY OR CONTACTOR COIL		TEMPERATURE SWITCH N.O. CONTACT		THREE POSITION SWITCH
	WIRE CONTINUATION SYMBOL		DISCONNECT FUSE		NORMALLY OPEN CONTACT		TEMPERATURE SWITCH N.C. CONTACT		
	INTER-PANEL SOURCE ARROW		CONTROL TRANSFORMER		NORMALLY CLOSED CONTACT		FLOW SWITCH N.O. CONTACT		INDICATING LAMP
	INTER-PANEL DESTINATION ARROW		MOTOR		TIME DELAY N.O. CONTACT		FLOW SWITCH N.C. CONTACT		INDICATING LAMP PUSH-TO-TEST
	TERMINAL BLOCK				TIME DELAY N.C. CONTACT		LEVEL SWITCH N.O. CONTACT		SOLENOID
	KNIFE DISCONNECT TERMINAL BLOCK		MANUAL MOTOR STARTER		LIMIT SWITCH NORMALLY CLOSED		LEVEL SWITCH N.C. CONTACT		RESISTOR
	DISTRIBUTION BLOCK				LIMIT SWITCH NORMALLY OPEN		PUSH BUTTON N.O. CONTACT		RTD
	GROUND CONNECTION		THREE POLE CONTACTOR		PRESSURE SWITCH NORMALLY OPEN		PUSH BUTTON N.C. CONTACT		THERMOCOUPLE
	CIRCUIT BREAKER		EMERGENCY STOP NORMALLY CLOSED		PRESSURE SWITCH NORMALLY OPEN		TWO POSITION SWITCH		

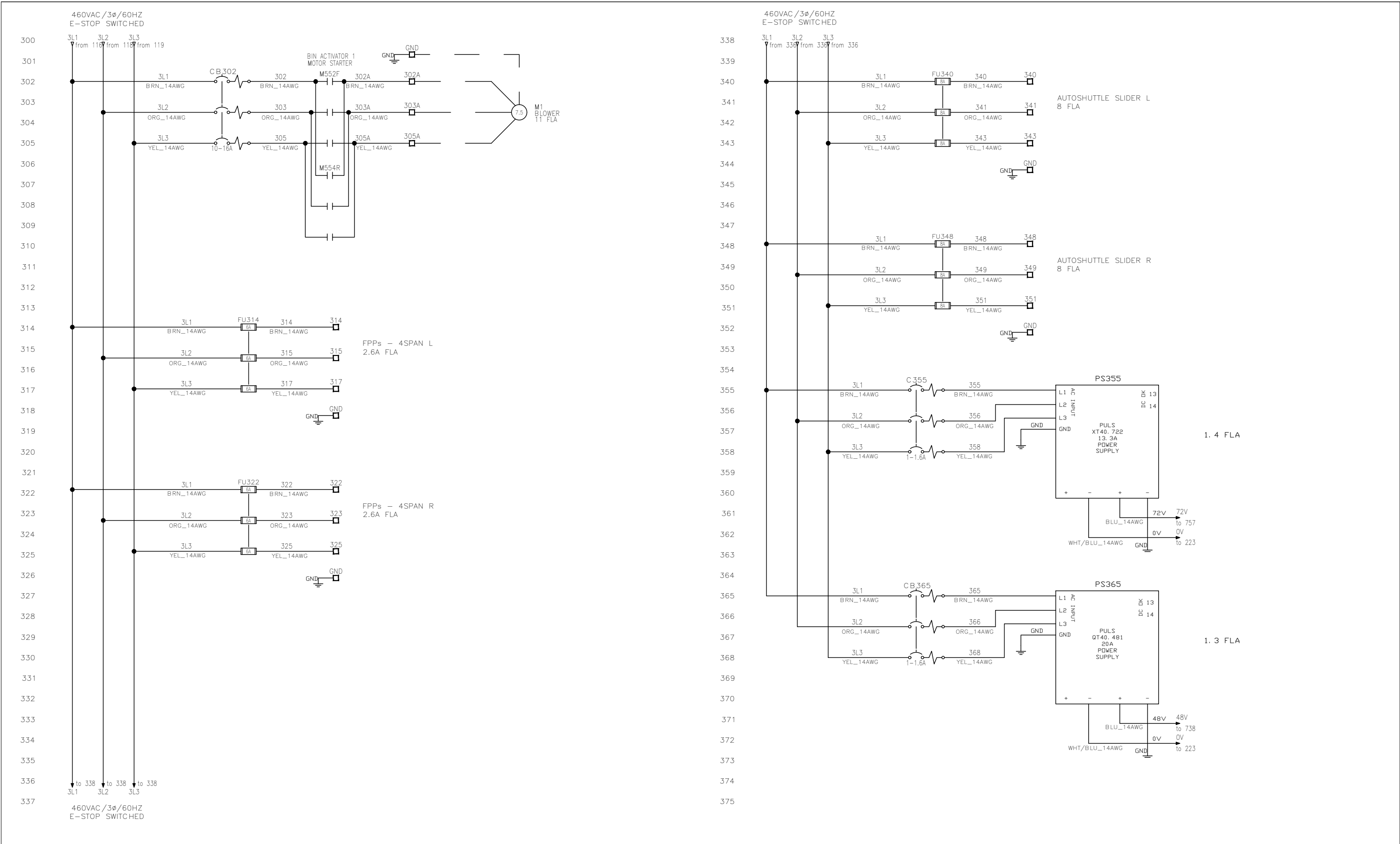
REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.		TITLE BG119609 SYMBOLS & LEGEND	DWG NO. D-BG-119609	REV D
DATE	DESCRIPTION	APPR.							
		B							
			CHK BY	DATE					SCALE N/A
			APPR BY	DATE					SIZE B
							CLIENT BERKSHIRE GREY	JOB NO. N/A	SHEET iv OF 16



REVISIONS			DRAWN BY	DATE	<div>CONFIDENTIALITY NOTE:</div> <div>The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.</div> <div><div><div>BG</div><div>BERKSHIRE GREY</div></div><div><div><div></div><div>SJE</div></div><div><div><div></div><div></div><div></div></div><div>Horlick</div></div></div></div> <td>TITLE</td> <td>BG119609 460VAC POWER</td> <td>DWG NO.</td> <td>D-BG-119609</td> <td>REV</td> <td>D</td>	TITLE	BG119609 460VAC POWER	DWG NO.	D-BG-119609	REV	D
DATE	DESCRIPTION	APPR.	RC	02/27/2024		SCALE	N/A				
			CHK BY	DATE		SIZE	B				
			APPR BY	DATE		SHEET 1	OF 16				
					CLIENT	BERKSHIRE GREY	JOB NO.	N/A			



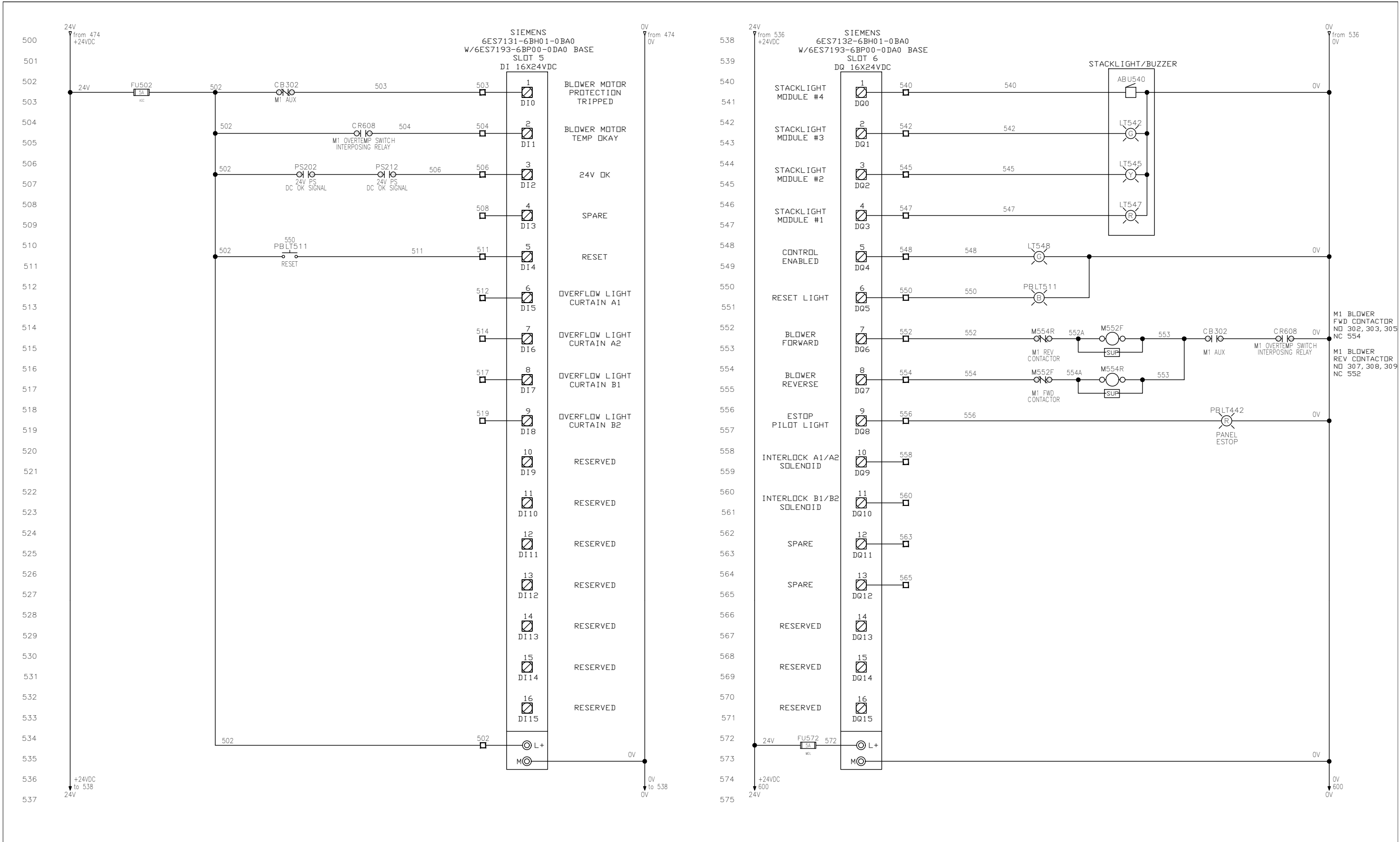
REVISIONS			DRAWN BY RC	DATE 02/27/2024	<div>CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.</div> <div></div>	TITLE BG119609 460VAC POWER NOT E-STOP		DWG NO. D-BG-119609	REV D
DATE	DESCRIPTION	APPR.				CLIENT BERKSHIRE GREY		JOB NO. N/A	SCALE N/A
			CHK BY	DATE				SIZE B	
			APPR BY	DATE				SHEET 2 OF 16	






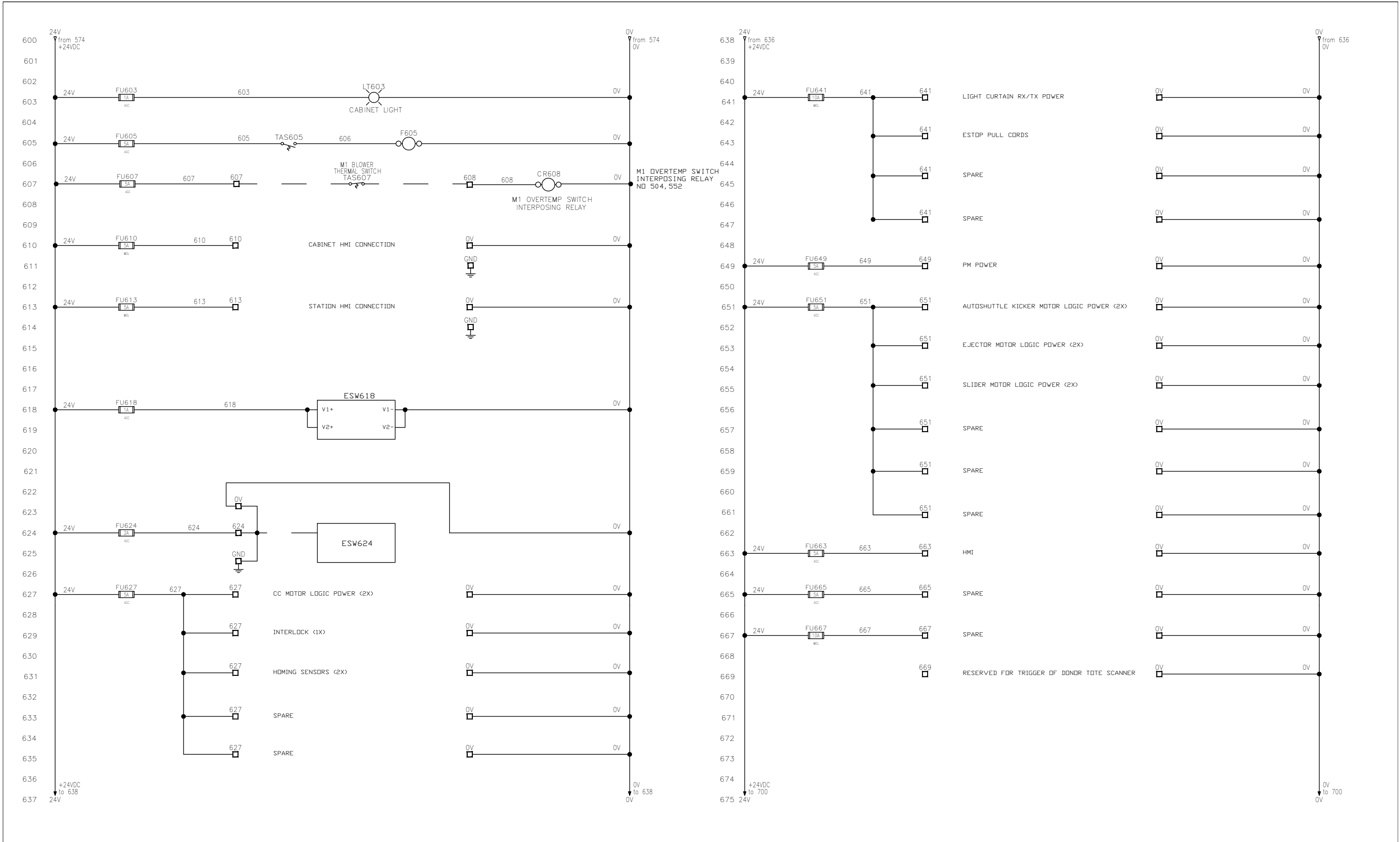
REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	<div><div>BG</div><div>BERKSHIRE GREY</div><div>SJE</div><div>Horlick</div></div>	TITLE BG119609 460V E-STOP SWITCHED	DWG NO. D-BG-119609	REV D
DATE	DESCRIPTION	APPR.							SCALE N/A
			CHK BY	DATE					SIZE B
			APPR BY	DATE					SHEET 3 OF 16






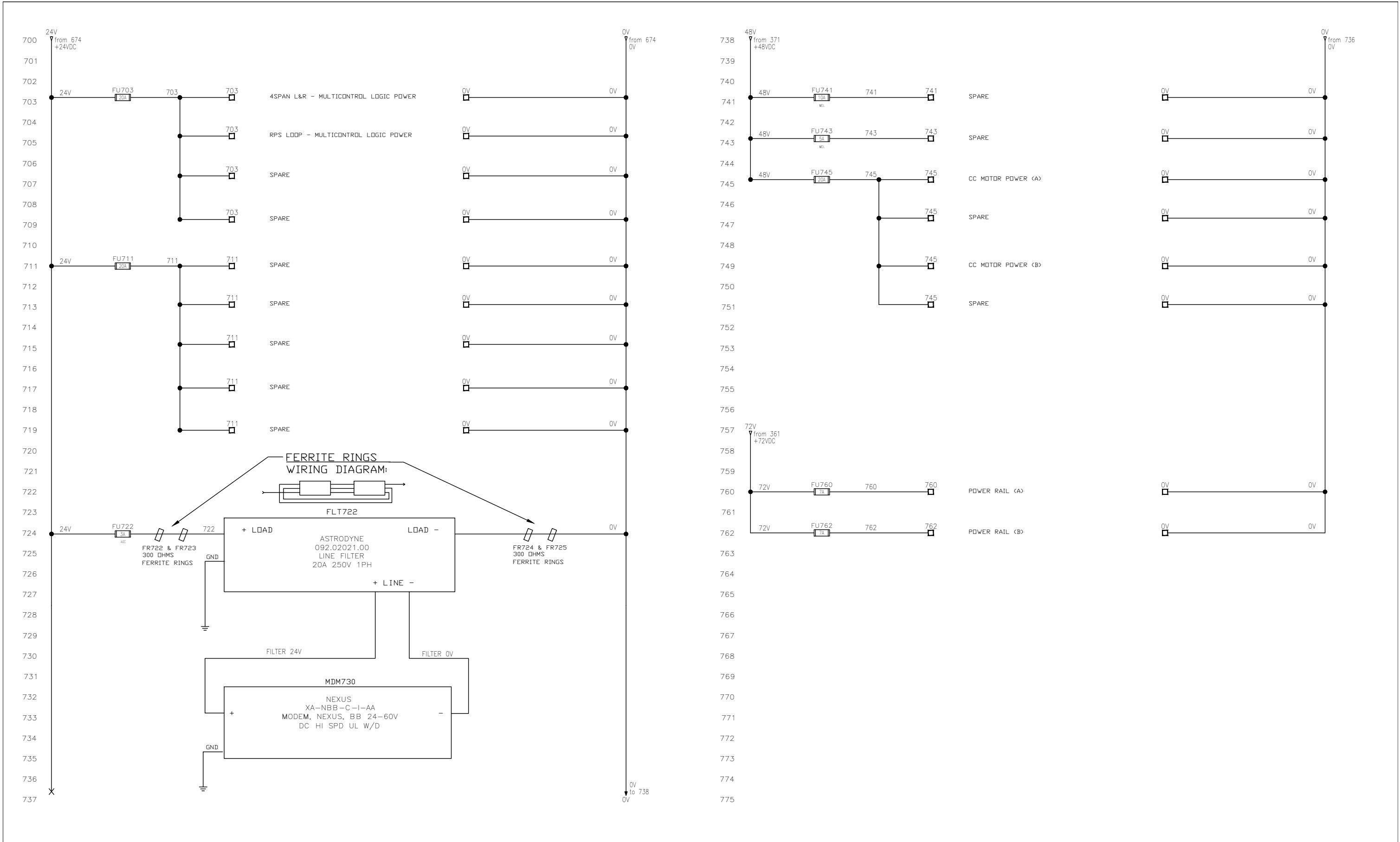




REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	  	TITLE BG119609 PLC INPUTS/OUTPUTS		DWG NO. D-BG-119609		REV D			
DATE	DESCRIPTION	APPR.							SCALE N/A		SIZE B			
			CHK BY	DATE										
							CLIENT BERKSHIRE GREY		JOB NO. N/A		SHEET 5 OF 16			



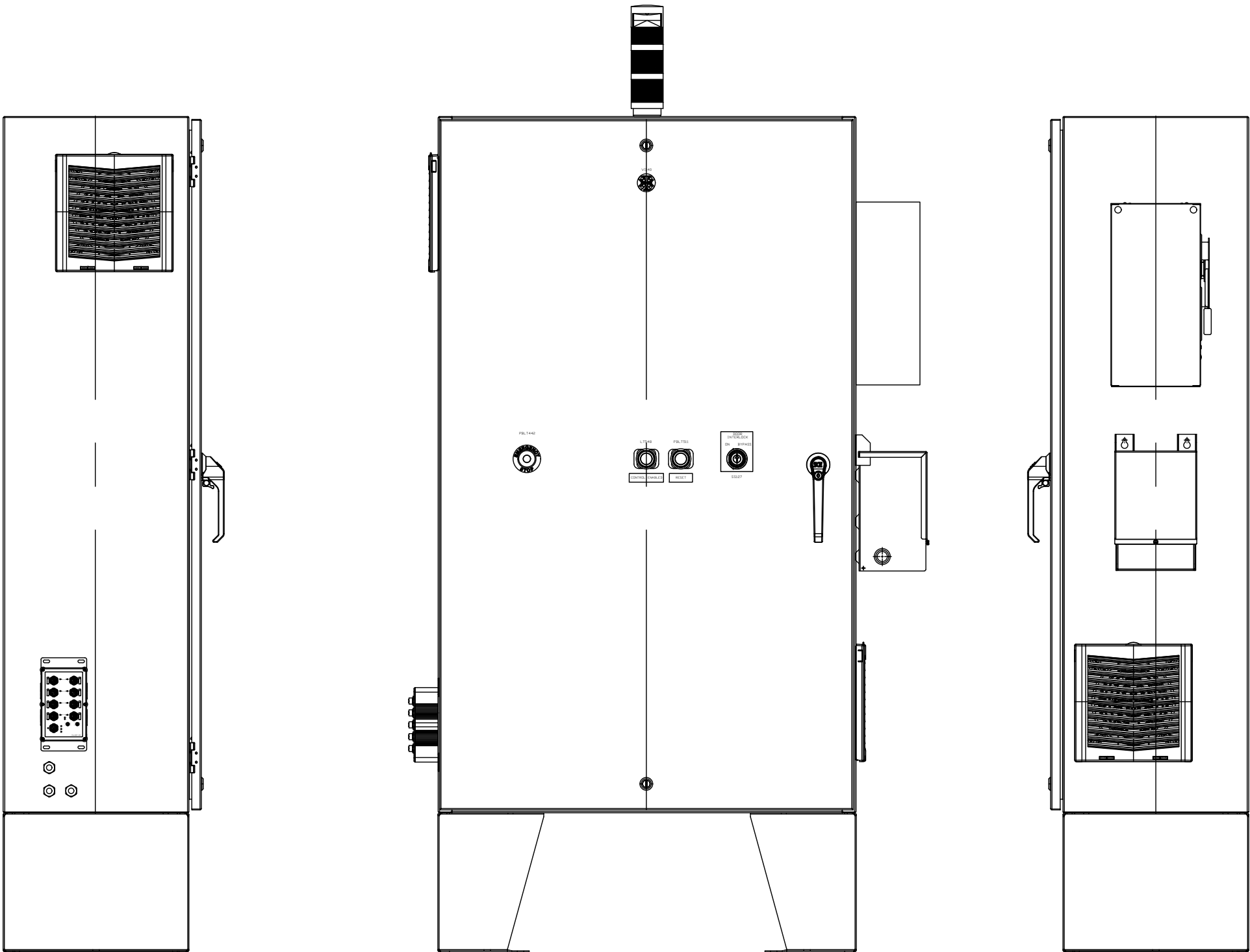
REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	  	TITLE BG119609 24VDC POWER		DWG NO. D-BG-119609	REV D
DATE	DESCRIPTION	APPR.					CLIENT BERKSHIRE GREY		JOB NO. N/A	SCALE N/A
								SIZE B		
								SHEET 6 OF 16		



REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	<div><div><div>BG</div><div>BERKSHIRE GREY</div></div><div><div>SJE</div><div>Horlick</div></div></div>	TITLE BG119609 24/48/72VDC POWER		DWG NO. D-BG-119609	REV D
DATE	DESCRIPTION	APPR.							SCALE N/A	
			CHK BY	DATE			SIZE B			
			APPR BY	DATE			SHEET 7 OF 16			
							CLIENT BERKSHIRE GREY	JOB NO. N/A		







Reference	Cord Grip (McMaster-Carr)
0BL-21-1	69915K56
0BL-21-2	7807K38
0BL-22-1	69915K56
0BL-22-2	7807K38
0BL-31-1	7807K38
0BL-31-3	7807K38
0BL-31-5	7807K38
0BL-31-7	7807K38
0BL-32-1	7807K38
0BL-32-3	7807K38
0BL-32-5	7807K38
0BL-32-7	7807K38
0BL-61-2	7807K38
0BL-91-1	69915K53
0BL-93-1	69915K53
0BL-102-1	7807K38
0BL-131-2	7807K34
0BL-131-3	69915K56
0BL-132-2	7807K34
0BL-132-3	69915K56
0BL-133-2	7807K34
0BL-134-2	7807K34
0BL-151-1	7807K34
0BL-151-2	7807K34
0BL-152-1	7807K34
0BL-152-2	7807K34
0BL-153-1	69915K54
0BL-153-3	7807K33
0BL-161-1	69915K54
0BL-171-1	7807K38
0BL-171-2	7807K38
0BL-172-1	7807K38
0BL-172-2	7807K34
0BL-173-1	7807K34
0BL-190-1	CD13NS-A1,OR-18-BN,NN-13-BK
0BL-212-3	69915K54
0BL-221-1	69915K55
0BL-221-2	69915K57
0BL-221-3	7807K33

BOTTOM VIEW

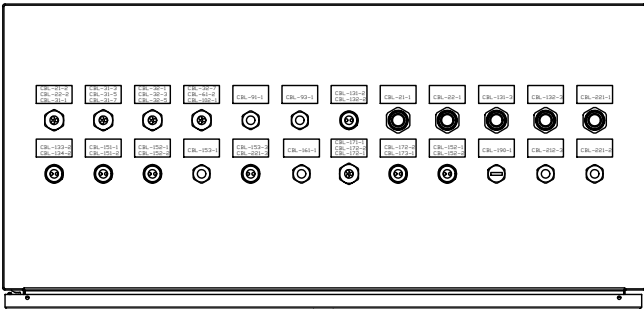
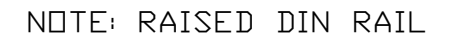





Diagram illustrating a 2' x 4' wireway assembly. The components shown are:

- PLC** (Programmable Logic Controller) unit.
- CR608** (Control Relay) unit.
- ESWS16** (Electrical Switching Unit) unit.

The diagram shows the internal wiring connections between these components and the 2' x 4' wireway.



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DATE	DESCRIPTION	APPR.	RC	02/27/2024			BG119609 SUBPANEL LAYOUTS	D-BG-119609	D
			CHK BY	DATE					N/A
			APPR BY	DATE					B
							CLIENT	JOB NO.	SHEET 12 OF 16
							BERKSHIRE GREY	N/A	



	<b>TB1</b>
	<b>1492-H6</b>
	<b>24VDC FUSED TERMINALS ON DOOR</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
FU401	PLC 5A FUSE PROTECTION
FU473	PLC 5A FUSE PROTECTION
FU572	PLC 5A FUSE PROTECTION
FU618	ESW618 1A FUSE PROTECTION

	<b>TB2</b>
	<b>1492-J3</b>
	<b>PLC I/O, 24VDC ON DOOR</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
440	24VDC FROM FU440
440	24VDC FROM FU440
440	24VDC FROM FU440
440	24VDC FROM FU440
442	SAFETY CONTACTOR OPEN
443	ESTOP CH A
444	BRAKING RESISTOR A TEMP SENSOR
446	BRAKING RESISTOR B TEMP SENSOR
448	SPARE SAFETY INPUT
450	ESTOP CH B
452	SPARE SAFETY INPUT
454	FACILITY FIRE ALARM
457	SAFETY CONTACTOR A COIL
457	SAFETY CONTACTOR A COIL
457	SAFETY CONTACTOR A COIL
457	SAFETY CONTACTOR A COIL
459	SAFETY CONTACTOR B COIL
459	SAFETY CONTACTOR B COIL
459	SAFETY CONTACTOR B COIL
459	SAFETY CONTACTOR B COIL
461	SPARE SAFETY OUTPUT
463	SPARE SAFETY OUTPUT
465	NEUTRAL
502	24VDC FROM FU502
503	BLOWER PROTECTION TRIP
504	BLOWER TEMP OKAY

	<b>TB2</b>
	<b>1492-J3</b>
	<b>PLC I/O, 24VDC ON DOOR</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
506	24V OK
508	SPARE INPUT
511	RESET
512	SPARE INPUT
514	SPARE INPUT
517	SPARE INPUT
519	SPARE INPUT
540	STACKLIGHT MOD 4
542	STACKLIGHT MOD 3
545	STACKLIGHT MOD 2
547	STACKLIGHT MOD 1
548	CONTROL ENABLED
550	RESET LIGHT
552	BLOWER FORWARD
554	BLOWER REVERSE
556	ESTOP PILOT LIGHT
558	SPARE OUTPUT
560	SPARE OUTPUT
563	SPARE OUTPUT
565	SPARE OUTPUT
24V	24VDC
24V	24VDC
24V	24VDC
0V	0VDC
0V	0VDC
0V	0VDC
SPARE	SPARE
SPARE	SPARE
SPARE	SPARE
SPARE	SPARE
SPARE	SPARE
SPARE	SPARE

	<b>TB3</b>
	<b>1492-J3</b>
	<b>ASI ON DOOR</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
ASI+	ASI+
ASI+	ASI+
ASI-	ASI-
ASI-	ASI-

	<b>TB4</b>
	<b>1492-H6</b>
	<b>24VDC FUSED TERMINALS MAIN PANEL</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
FU440	PLC 5A FUSE PROTECTION
FU502	PLC 5A FUSE PROTECTION
FU603	LT603 1A FUSE PROTECTION
FU605	F605 5A FUSE PROTECTION
FU607	CR608 5A FUSE PROTECTION
FU610	HMI 5A FUSE PROTECTION
FU613	HMI 5A FUSE PROTECTION
FU624	ESW624 2A FUSE PROTECTION
FU627	MISC 5A FUSE PROTECTION
FU641	MISC 10A FUSE PROTECTION
FU649	PM POWER 5A FUSE PROTECTION
FU651	SPARE 10A FUSE PROTECTION
FU663	SPARE 5A FUSE PROTECTION
FU665	SPARE 5A FUSE PROTECTION
FU667	SPARE 10A FUSE PROTECTION
FU722	FLT722 3A FUSE PROTECTION

	<b>TB5</b>
	<b>1492-H6</b>
	<b>48VDC FUSED TERMINALS MAIN PANEL</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
FU741	SPARE 10A FUSE PROTECTION
FU743	SPARE 5A FUSE PROTECTION

	<b>TB6</b>
	<b>1492-H6</b>
	<b>72VDC FUSED TERMINALS MAIN PANEL</b>
<b>LABEL</b>	<b>DESCRIPTION</b>
FU760	SPARE 7A FUSE PROTECTION
FU762	SPARE 7A FUSE PROTECTION

		TB7	
		1492-J3, 1492-JG3, 1492-JD3	
		PLC I/O, 24VDC MAIN PANEL	
LABEL 1	LABEL 2	DESCRIPTION	
444		SPARE SAFETY INPUT	
446		SPARE SAFETY INPUT	
448		SPARE SAFETY INPUT	
452		SPARE SAFETY INPUT	
454		SPARE SAFETY INPUT	
514		SPARE INPUT	
517		SPARE INPUT	
519		SPARE INPUT	
558		SPARE OUTPUT	
560		SPARE OUTPUT	
563		SPARE OUTPUT	
565		SPARE OUTPUT	
607		TAS607	
608		TAS607	
610		CABINET HMI	
0V		NEUTRAL	
GND		GROUND	
613		STATION HMI	
0V		NEUTRAL	
GND		GROUND	
618		ESW624	
0V		NEUTRAL	
GND		GROUND	
627	0V	CC MOTOR LOGIC	NEUTRAL
627	0V	INTERLOCK	NEUTRAL
627	0V	HOMING SENSORS	NEUTRAL
627	0V	SPARE	NEUTRAL
627	0V	SPARE	NEUTRAL
641	0V	SPARE	NEUTRAL
641	0V	SPARE	NEUTRAL
641	0V	SPARE	NEUTRAL
641	0V	SPARE	NEUTRAL



TB7 1492-J3, 1492-JG3, 1492-JD3 PLC I/O, 24VDC MAIN PANEL			
LABEL 1	LABEL 2	DESCRIPTION	
649	0V	PM POWER	NEUTRAL
651	0V	KICKER MOTOR LOGIC	NEUTRAL
651	0V	EJECTOR MOTOR LOGIC	NEUTRAL
651	0V	SLIDER MOTOR LOGIC	NEUTRAL
651	0V	SPARE	NEUTRAL
651	0V	SPARE	NEUTRAL
651	0V	SPARE	NEUTRAL
663	0V	SPARE	NEUTRAL
665	0V	SPARE	NEUTRAL
667	0V	SPARE	NEUTRAL
669	0V	TRIGGER OF DONOR TOTE SCANNER	NEUTRAL
703	0V	4SPAN LOGIC POWER	NEUTRAL
703	0V	RPS LOOP LOGIC POWER	NEUTRAL
703	0V	SPARE	NEUTRAL
703	0V	SPARE	NEUTRAL
711	0V	SPARE	NEUTRAL
711	0V	SPARE	NEUTRAL
711	0V	SPARE	NEUTRAL
711	0V	SPARE	NEUTRAL

TB8 1492-J3 48/72VDC MAIN PANEL	
LABEL	DESCRIPTION
741	48VDC SPARE
0V	NEUTRAL
GND	GROUND
743	48VDC SPARE
0V	NEUTRAL
GND	GROUND
745	48VDC MOTOR LOGIC L
0V	NEUTRAL
GND	GROUND
745	48VDC SPARE
0V	NEUTRAL
GND	GROUND
745	48VDC MOTOR LOGIC R
0V	NEUTRAL
GND	GROUND
745	48VDC SPARE
0V	NEUTRAL
GND	GROUND
760	72VDC SPARE
0V	NEUTRAL
GND	GROUND
762	72VDC SPARE
0V	NEUTRAL
GND	GROUND

TB9 1492-J3 ASI MAIN PANEL	
LABEL	DESCRIPTION
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-
ASI+	ASI+
ASI-	ASI-

TB10 1492-J3, 1492-JG3 240VAC	
LABEL	DESCRIPTION
146B	DRIVE CONN
149B	DRIVE CONN
GND	GROUND

TB12 1492-J3, 1492-JG3 480VAC	
LABEL	DESCRIPTION
1L1	VI140
1L2	VI140
1L3	VI140
GND	GROUND

TB11 1492-J3, 1492-JG3 480VAC	
LABEL	DESCRIPTION
302A	M1
303A	M1
305A	M1
GND	GROUND
314	4SPAN L
315	4SPAN L
317	4SPAN L
GND	GROUND
322	4SPAN R
323	4SPAN R
325	4SPAN R
GND	GROUND
340	SLIDER L
341	SLIDER L
343	SLIDER L
GND	GROUND
348	SLIDER R
349	SLIDER R
351	SLIDER R
GND	GROUND

ITEM	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	DEVICE
1	1	SAGINAW	SCE-60EL3616LPPL	ENCL,N4,60X36X16,3PT	ENCL
2	1	SAGINAW	SCE-60P36	BACK PLATE STEEL,60X36 SAG.	ENCL
3	1	SAGINAW	SCE-24P24	BACK,PANEL,24X24,SAGINAW	ENCL
4	1	SAGINAW	SCE-FK1216	FLOOR STAND,KIT,12X16,SAGINAW	ENCL
5	1	SAGINAW	SCE-SLMS	LED STRIP LIGHT WITH BUILT IN MOTION SENSOR	LT603
6	1	SAGINAW	SCE-SLCC	STRIP LIGHT CONNECTION CORD	LT603
7	1	SAGINAW	SCE-TEMNO	THRMST,ADJ,30-140F NO SAGINAW	TAS605
8	1	HOFFMAN	HF1024414	IP54 10 IN FF 2	F605
9	1	HOFFMAN	HG1000404	FAN,EXHAUST GRILL,KIT,10IN,HOFF, IP54, HG SERIES, LIGHT GRAY	F605
10	1	SAGINAW	SCE-E24I	ELECTRICAL INTERLOCK 24 VDC	SOLO227
11	1	EATON CUTLER HAMMER	DH362FGK	SWITCH, HEAVY DUTY SAFETY, 3 POLE, 60A, NEMA 1, FUSIBLE	DISC1
12	1	EATON CUTLER HAMMER	DS26JK	ESAFETY SWITCH FUSE ADAPTER KIT, 60A, CLASS J FUSE	DISC1
13	3	EATON BUSSMANN	LPJ-50SP	FUSE,CLASS J,50A	FU01
14	2	MERSEN	MPDB63133	POWER DISTRIBUTION BLOCK,MINI,ALUMINUM,OPEN STYLE,UL 1953,1000VAC/DC,3-P,135A	TB123, TB116
15	6	MERSEN	MPDBC6263	ACCESSORY SAFETY COVER SNAP-ON HINGED FOR MINIATURE POWER DISTRIBUTION BLOCKS	TB123, TB116
16	1	GRACE ENG. PRO	R-3W	VOLTAGE INDICATOR W/ FLASHING LEDS	VI140
17	2	MERSEN	USCC2I	FUSEHOLDER,CLASS CC,ULTRASAFE,W/INDICATOR,2P,600VAC/DC,SCCR 200KA,30A,SCREW TERM	FU146, FU147
18	2	EATON BUSSMANN	LP-CC-10	FUSE,CLASS CC,10A	FU147
19	2	EATON BUSSMANN	FNQ-R-15 (ALTERNATIVE: ATQR15)	FUSE,CLASS CC,15A	FU146
20	1	HAMMOND	C1F003LES	TRANSFORMER,SINGLE PHASE,CENTER-TAP,480V PRI.,240/120V SEC	XF146
21	5	MERSEN	USCC1I	FUSEHOLDER,CLASS CC,ULTRASAFE,W/INDICATOR,1P,600VAC/DC,SCCR 200KA,30A,SCREW TERM	FU703, 711, 745, 760, 762
22	2	EATON BUSSMANN	LPCC-7	FUSE,CLASS CC,7A	FU760, 762
23	3	EATON BUSSMANN	LPCC20	FUSE,CLASS CC,20A	FU703, 711, 745
24	6	EATON BUSSMANN	FRS-R-8	FUSE, CLASS RK5, 8A	FU340, FU348
25	2	EATON BUSSMANN	RM60030-3SR	FUSE BLOCK, RM SERIES, 0-30A	FU340, FU348
26	6	EATON BUSSMANN	CVR-RH-60030	ACC,FUSE HLDR,CLASS RK5,30A,600V	FU340, FU348
27	6	EATON BUSSMANN	LPCC6	FUSE,CLASS CC,6A	FU314, FU322
28	2	ALLEN BRADLEY	100S-C55EJ22C	SAFETY CONTACTOR, 55A, 24VDC 2 NOC & 2NCC	M457, M458
29	4	ALLEN BRADLEY	100-FSV55	SURGE SUPPRESSOR, VARISTOR MODULE, 12...55VAC / 12...77VDC	M457, M458, M552F, M554R
30	2	EATON BUSSMANN	USCC3I	FUSEHOLDER,3POS.W/IND,LGT,FERRAZ,SH	FU314, FU322
31	5	ALLEN BRADLEY	140MT-C3E-B16	MOTOR PROTECTION CIRCUIT BREAKER	CB161, 202, 212, 355, 365
32	6	ALLEN BRADLEY	140MT-C-AFA11	FRONT MOUNT AUXILIARY CONTACT,1 NO 1NC FOR 140MT, ME MTR PROTECTION CKT- BR 140UT CIRCUIT BREAKER	
33	1	ALLEN BRADLEY	140MT-D9E-C16	MOTOR PROTECTION CIRCUIT BREAKER	CB302
34	1	IFM EFECTOR	AC1253	AS-INTERFACE POWER SUPPLY,124X62X120MM, OPERATING VOLTAGE - 21.5-31.6DC, AS-I 8, TERMINALS	PS161

REVISIONS			DRAWN BY RC	DATE 02/27/2024	CONFIDENTIALITY NOTE:  The information contained in this drawing is intended for use only by Horlick Company, Inc. and the organization listed below. The information is confidential and any copying, distribution or dissemination without the consent of Horlick Company, Inc. is STRICTLY PROHIBITED.	 <b>BERKSHIRE GREY</b>    	TITLE	BG119609 BILL OF MATERIAL	DWG NO. D-BG-119609	REV D	
DATE	DESCRIPTION	APPR.					CHK BY	DATE	SCALE N/A		
							APPR BY	DATE	CLIENT BERKSHIRE GREY	JOB NO. N/A	SIZE B
									SHEET 15 OF 16		

ITEM	QTY	MANUFACTURER	PART NUMBER	DESCRIPTION	DEVICE
35	2	PULS	QT40.241 (ALTERNATIVE: XT40.242)	POWER SUPPLY. PULS POWER SUPPLY, 380 TO 480 VAC INPUT, 24 TO 28 VDC OUTPUT, 960 W, 34.3 TO 40 A, DIN RAIL MOUNT, 110 MM WIDTH, 127	PS202, PS212
36	2	MERSEN	MPDB67611	1 POLE, 2 - 8 OPENINGS, 2/0-14AWG --- 2-14AWG	DB226,227
37	2	MERSEN	MPDBC6667	COVER,PWR DIST,FINGER SAFE	DB226,227
38	1	ALLEN BRADLEY	800T-H48D2	30MM KEYED SELECTOR SWITCH, SPRING RETURN RIGHT, LOCK REMOVAL LEFT	SS227
39	1	ALLEN BRADLEY	104S-C23EJ210BC	23A REVERSING SAFETY CONTACTOR	M552F, M554R
40	1	PULS	XT40.722	POWER SUPPLY UNIT. PULS POWER SUPPLY, THREE PHASE, SERIES: X, 480 VAC INPUT, 72 VDC OUTPUT, 960 W POWER, 13.3 A, 50 TO 60 HZ FREQUENCY	PS355
41	1	PULS	QT40.481 (ALTERNATIVE: XT40.482)	POWER SUPPLY UNIT. PULS POWER SUPPLY, THREE PHASE, SERIES: Q, 480 VAC INPUT, 48 VDC OUTPUT, 960 W POWER, 20 A	PS365
42	1	SIEMENS	6ES7512-1SK01-0AB0	SIMATIC DP, CPU 1512SP F-1 PN FOR ET 200SP	PLC
43	1	SIEMENS	6ES7954-8LF03-0AA0	SIMATIC S7 MEMORY CARD. 24 MB	PLC
44	1	SIEMENS	6ES7193-6AR00-0AA0	SIMATIC_BUSADAPTER_PN_BA_2XRJ45	PLC
45	2	SIEMENS	6ES7193-6BP20-0DC0	BASE UNIT TYPE C0, BU20-P6+A2+4D	SLOT 1-2
46	1	SIEMENS	3RK7137-6SA00-0BC1	SIMATIC ET 200SP COMMUNICATION MODULE CM AS-INTERFACE MASTER ST	SLOT 1
47	1	SIEMENS	3RK7136-6SC00-0BC1	SIMATIC ET 200SP SAFETY COMMUNICATION MODULE F-CM AS-INTERFACE SAFETY ST FOR AS-INTERFACE	SLOT 2
48	2	SIEMENS	6ES7136-6BA00-0CA0	SAFETY DIGITAL INPUT MODULE 8X24V	SLOT 3, 7
49	5	SIEMENS	6ES7193-6BP00-0DA0	ASM_BASE UNIT TYPE A0_BU15-P16+A	SLOT 3-7
50	1	SIEMENS	6ES7136-6DB00-0CA0	DIGITAL OUTPUT MODULE 4X24V	SLOT 4
51	1	SIEMENS	6ES7131-6BH01-0BA0	SIMATIC ET 200SP, DI 16X24VDC ST	SLOT 5
52	1	SIEMENS	6ES7132-6BH01-0BA0	OUTPUT MODULE 16 DIGITAL 24V	SLOT 6
53	1	ANTAIRA TECHNOLOGIES	LNx-800AG	8-PORT INDUSTRIAL GIGABIT UNMANAGED ETHERNET SWITCH, W/8*10/100/1000TX	ESW618
54	1	BANNER ENGINEERING	TL70RYGALT	COMPLETE UNIT GR/R/YL LED 4STACK	ABU540
55	1	PLANET	ISW-800T-M12	ETHERNET SWITCH, RJ45 PORTS , 100MBPS, LAYER 2 UNMANAGED	ESW624
56	1	ALLEN BRADLEY	800T-P16G	TRANSFORMER TYPE WITH INCAND LAMP 800T	LT548
57	1	ALLEN BRADLEY	800T-QBH2B	MOM. CONTACT PB-ILLUM., BLUE LED, 12-130V AC/DC, 1 NO-1 NC	PBLT511
58	2	ALLEN BRADLEY	800T-XD2	CONTACT,BLK,N.C.ALLEN BRADLEY	
59	2	HEYCO	M3200GBH	CONN,LQDT, .21-.334, SPLIT GLAND	dv02, 03
60	1	ALLEN BRADLEY	800T-FXQH2RA1	30.5MM TYPE 4/13 2 POS. PB-ILLUM., PUSH-PULL, MUSHRM HD, RED LED, 12-130V AC/DC, 1 NCLB-1 NO	PBLT442
61	1	ALLEN BRADLEY	800T-XD1	CONTACT BLOCK,1 N.O., AB	
62	1	IDEC	RU4S-D24	RELAY,E-MECH,4PDT,CUR-RTG 6A,VOL-RTG 250AC/30DC,CTRL-V 24DC,W/LATCHING LEVER	CR608
63	1	IDEC	SY4S-05C	SOCKET, 4P CONTROL RELAY	CR608
64	22	ALLEN BRADLEY	1492-H6	FUSED TERMINAL BLOCK, FINGER SAFE, SINGLE POLE, 15A, 100-300VAC, H-BLOCK, BLACK	
65	1	EATON BUSSMANN	AGC-2-R	FUSE,AGC,250V 2A	FU624
66	9	EATON BUSSMANN	AGC-5-R	FUSE,AGC,250V 5A	FU440, 502, 605, 607, 627, 649, 651, 663, 665
67	2	EATON BUSSMANN	AGC-1-R	FUSE,AGC,250V 1A	FU603, 618
68	3	EATON BUSSMANN	MDL-10-R	FUSE, 10 AMP (GLASS)	FU641, 667, 741
69	5	EATON BUSSMANN	MDL-5-R	FUSE, 5 AMP (GLASS)	FU401, 572, 610, 613, 743
70	1	EATON BUSSMANN	AGC-3-R	FUSE,AGC,250V 3A	FU722
71	20	ALLEN BRADLEY	1492-JG3	TERMINAL, FEED THROUGH, 600 VOLT,20 AMP, #22 - 14 AWG, GROUNDING BLOCK	
72	48	ALLEN BRADLEY	1492-EAJ35	BLOCK,TERM,IEC END BARRIER AB	
73	162	ALLEN BRADLEY	1492-J3	BLOCK,TERM,IEC 20A AB, #22 - 14 AWG	
74	29	ALLEN BRADLEY	1492-JD3	TERM,BLK,30-12AWG,2 LEVEL 2 CKT,SCREW,GREY,AB	
75	4	FAIR-RITE	2631540002	FERRITE CORE 300OHM SOLID 6.35MM	FR722-725
76	1	CONDUCTIX-WAMPFLER	XA-NBB-C-I-AA	MODEM,NEXUS BB DATA TRANSMISSION,LOW VOLTAGE DC	MDM730
77	1	ASTRODYNE	092.02021.00	POWER LINE FILTER, EMI, 250VAC, 20A	FLT722

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DATE	DESCRIPTION						APPR.					SCALE N/A
												SIZE B
												SHEET 16 OF 16
			APPR BY	DATE			CLIENT BERKSHIRE GREY	JOB NO. N/A				