

WIRE LEGEND AND NOTES

CONTROL WIRE GAUGE:
(ALL WIRE MUST BE UL AND VW-1 RATING)

SYMBOL – WIRE GAUGE, VOLTAGE, TYPE

A- #24 AWG, 300V, 105C, 7/32 STRANDING, UL1569
B- #22 AWG, 300V, 105C, 7/30 STRANDING, UL1569
C- #20 AWG, 600V, 105C, 10/30 STRANDING, UL1015
D- #14 AWG 600V, 105C, 41/30 STRANDING, UL1015
E- #10 AWG 600V, 105C, 105/30 STRANDING, UL1015
F- #24 AWG, 300V 80C, 4 CONDUCTOR CABLE, UL2464,
7x32 STRANDING, BLK/WHT/RED/GRN
G- #24 AWG, 600V, 105C, TWISTED PAIR, RED/WHT, 105C, UL1015
H- #16 AWG, 300V, 105C, 26/30 STRANDING, UL1569
I- #14 AWG, 300V, 105C, 41/30 STRANDING, 0.110 NOM ID, UL1569
J- #20 AWG, 300V, 105C, 10/30 STRANDING, UL1569

WIRE REFERENCE NUMBER PREFIX

N - CONTROL/SIGNAL WIRE
H - 10 AWG WIRE
F - FIBER CABLE
C - MULTI-CONDUCTOR CABLE
R - RIBBON CABLE
P - POWER WIRE (#2 AND UP)
FB – FLEXIBUS
HB – HARD BUS

WIRE COLORS, CONTROL WIRE:

1.BRN 2.RED 3.ORN 4.YEL
5.GRN 6.BLU 7.VIO 8.GRY
9.WHT 10.BLK

WIRE COLORS POWER - ALL VOLTAGES

A-BRN B-ORN C- YEL

MTA PLUG COLORS

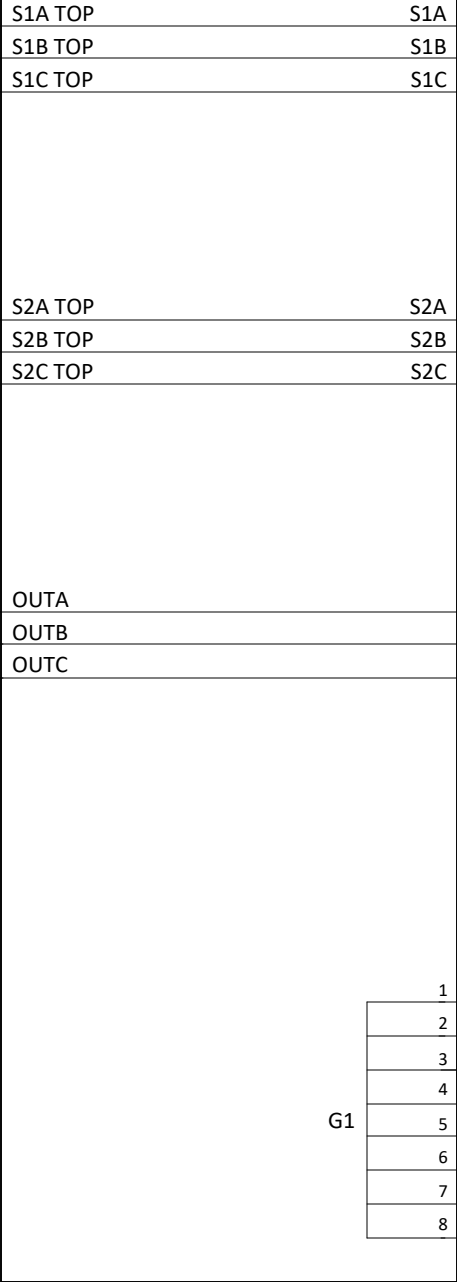
WHITE FOR A WIRE
RED FOR B WIRE
YELLOW FOR J WIRE



PAGE DESCRIPTION
SCHEMATIC, Series 70 eSTS

JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 1 OF 33	

STS1



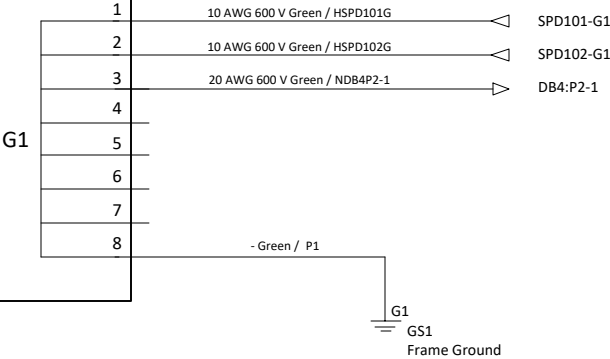
INPUT VOLTAGE	480V
CURRENT	4000A
REDUNDANCY	TMR
NUMBER OF POLES	3-pole
NUMBER OF WIRES	3-wire

CB301:T1, CB302:T1
CB301:T2, CB302:T2
CB301:T3, CB302:T3

OUTA
OUTB
OUTC

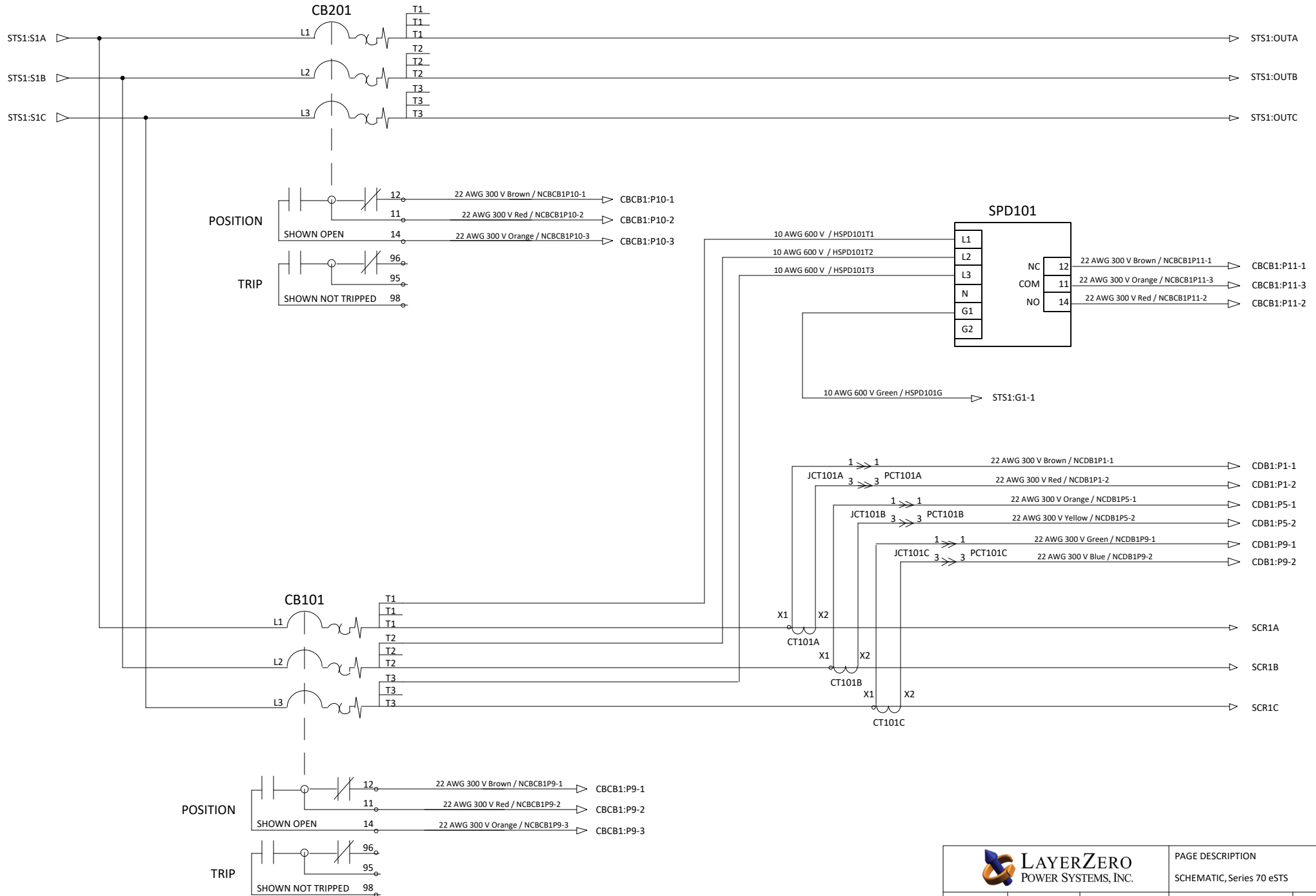
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CB101:L2, CB201:L2
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CB102:L1, CB202:L1
CB102:L2, CB202:L2
CB102:L3, CB202:L3



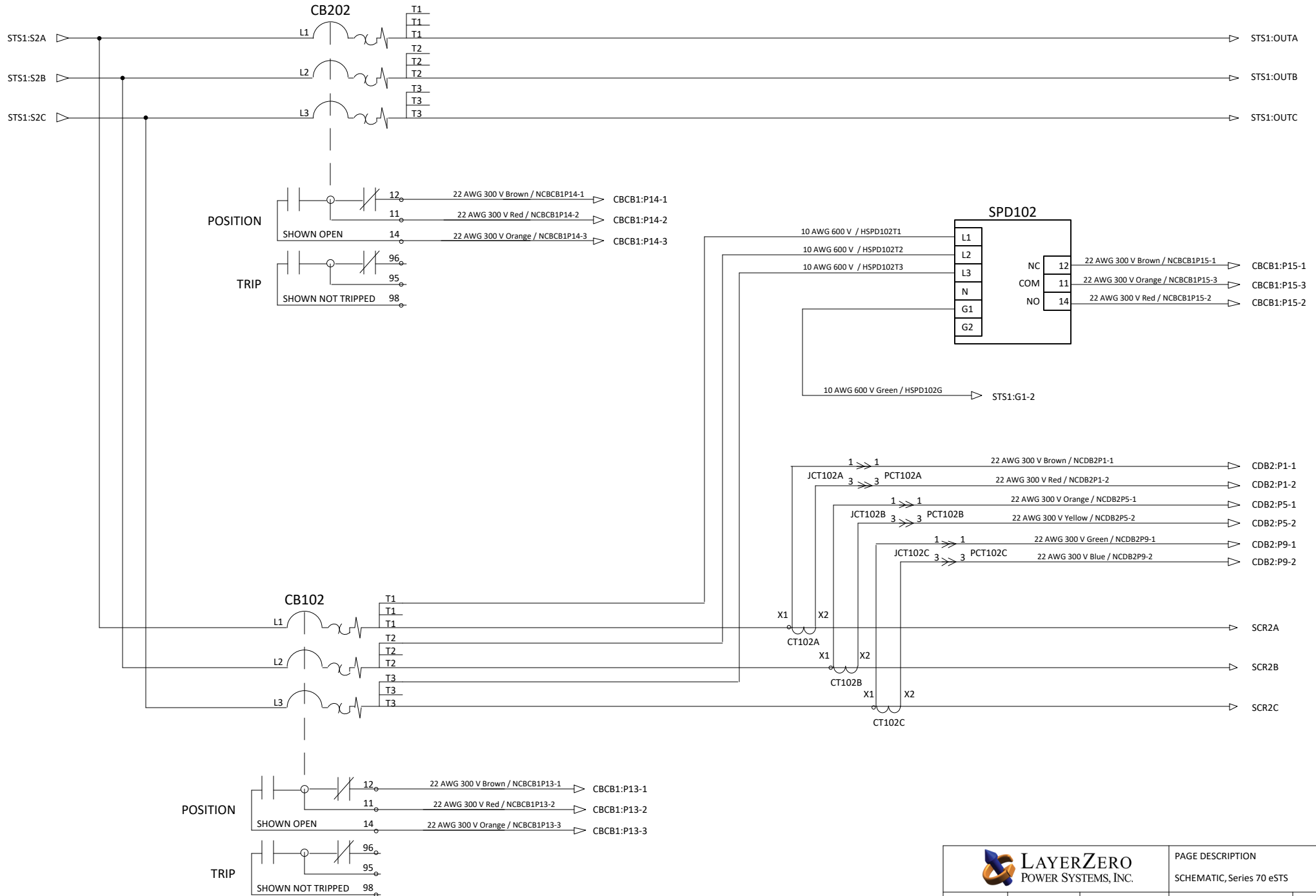
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JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 2 OF 33	

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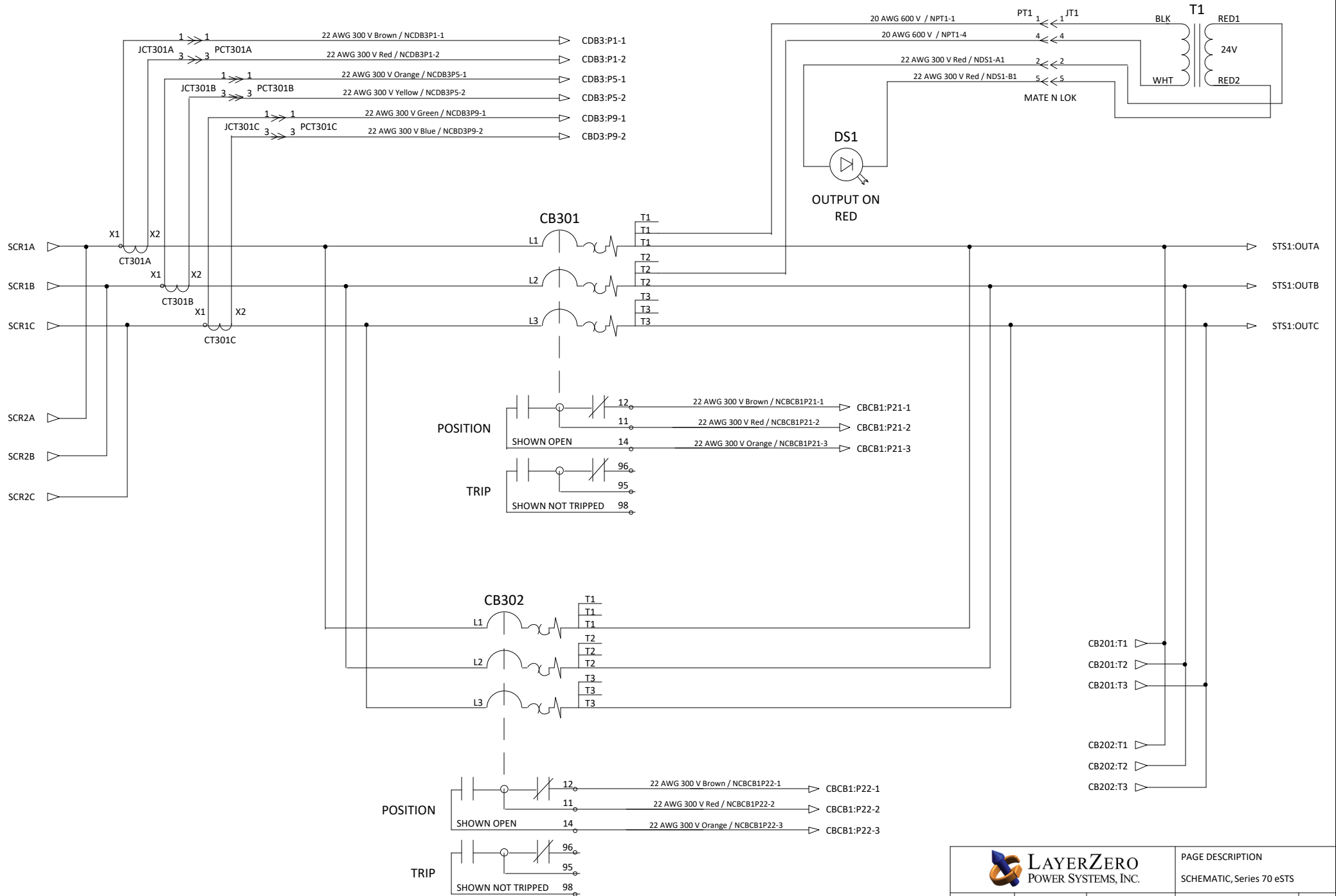


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JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 3 OF 33	

SOURCE 2

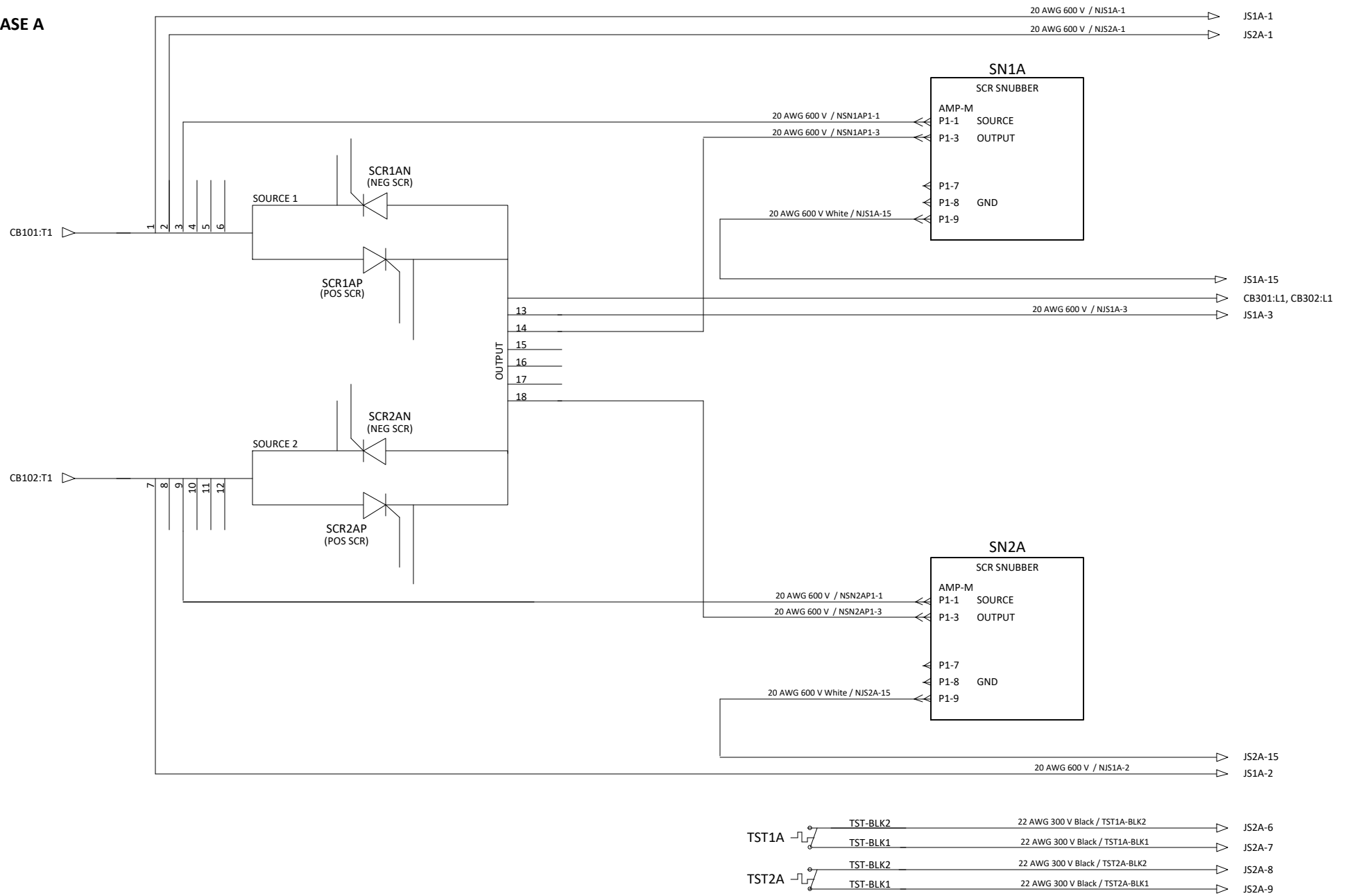


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	CHK	DATE		
	APPR	DATE		
			SHEET 4 OF 33	



 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 5 OF 33	

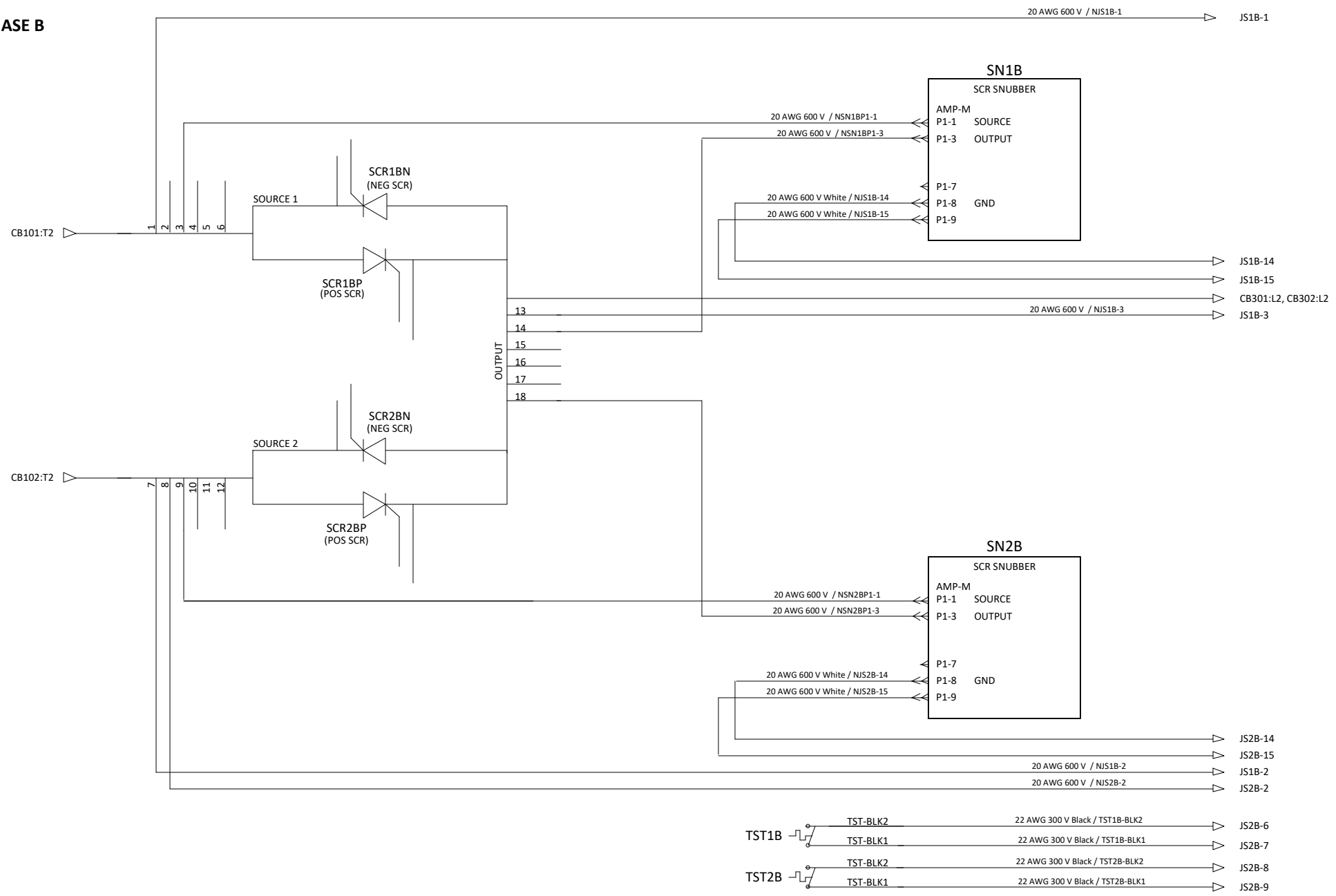
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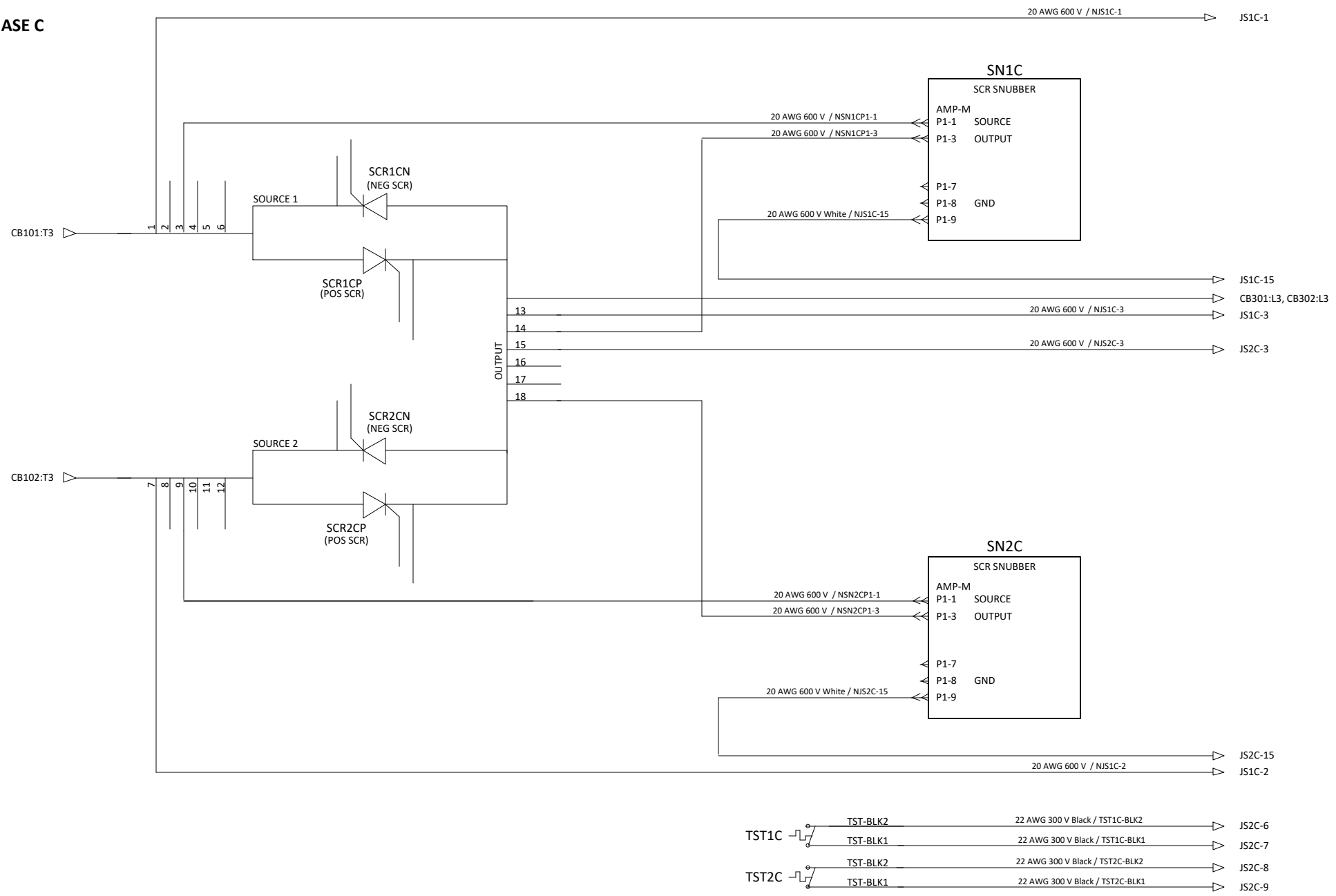
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	CHK	DATE		
	APPR	DATE	SHEET 6 OF 33	

PHASE B



 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 7 OF 33	

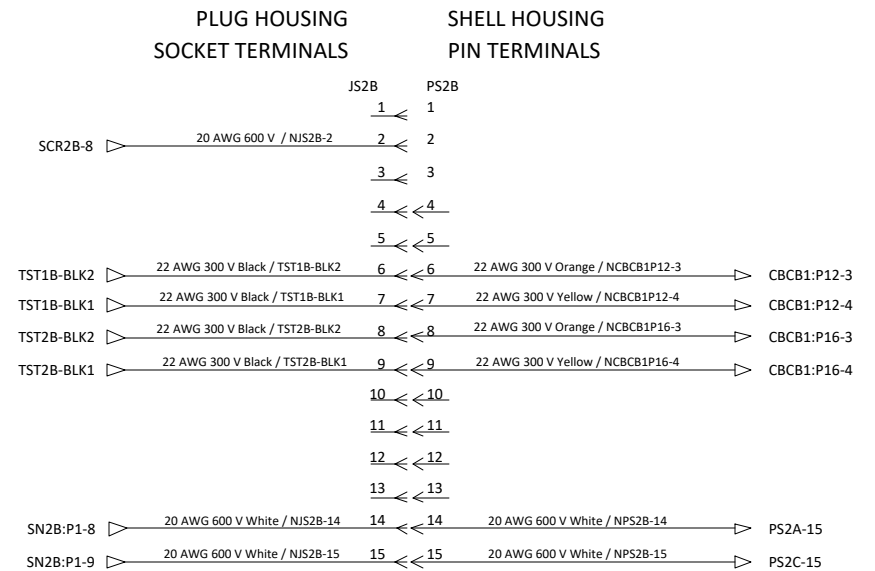
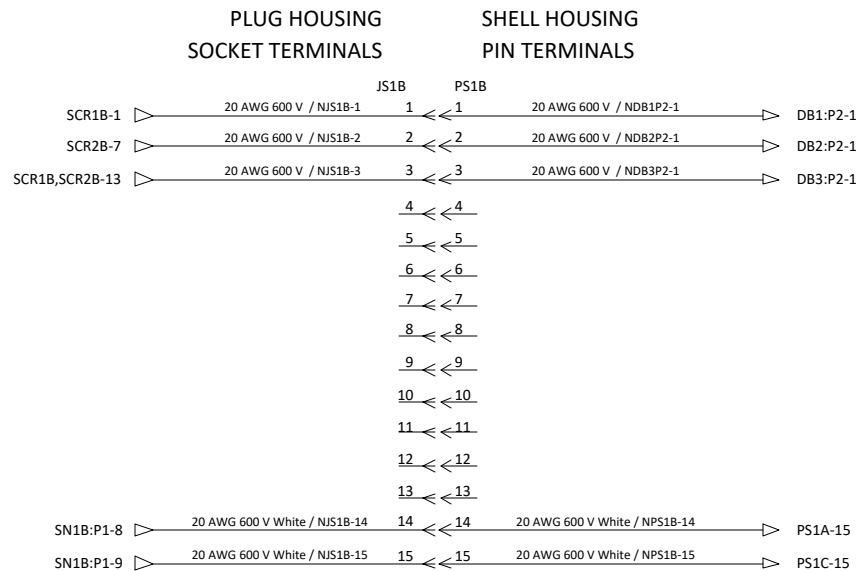
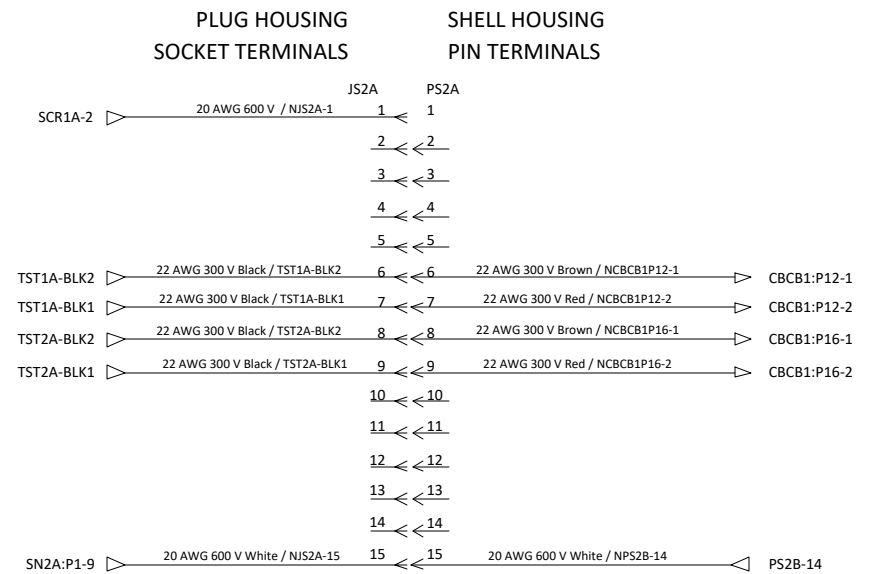
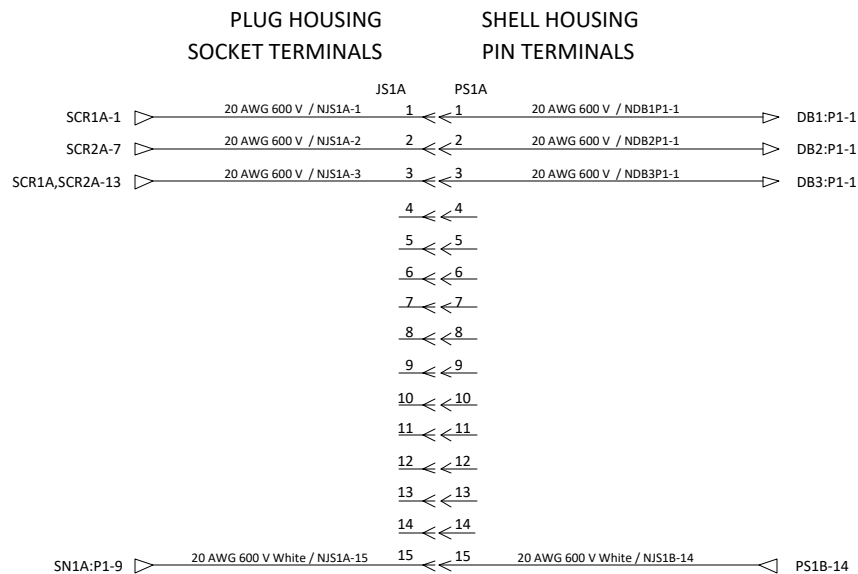
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SHEET 8 OF 33	

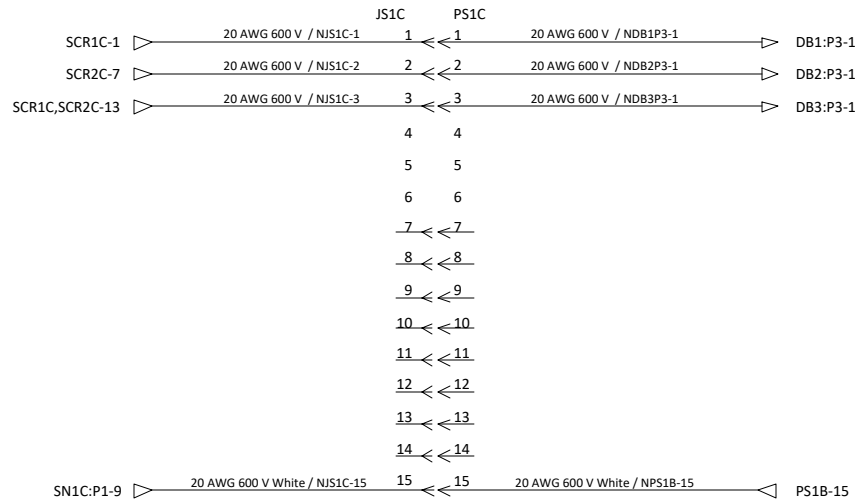
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	CHK	DATE		
	APPR	DATE	SHEET 9 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
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	APPR	DATE	SHEET 10 OF 33	



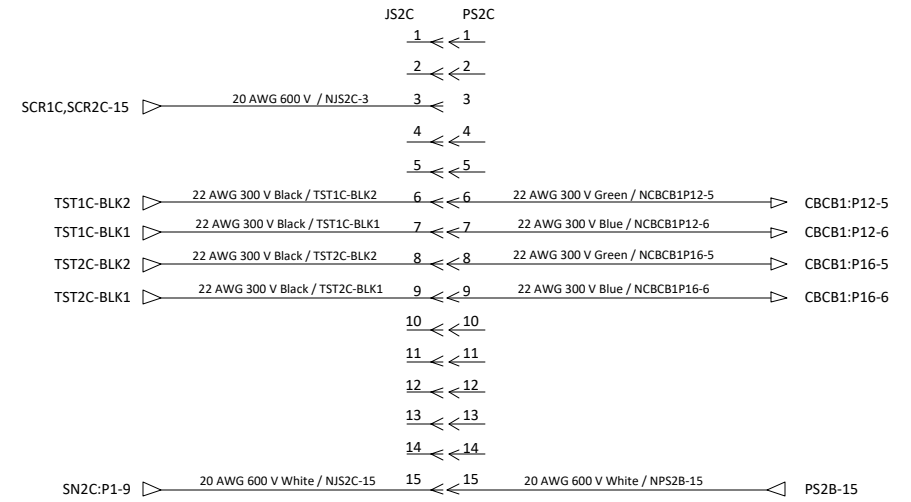
PLUG HOUSING
SOCKET TERMINALS

SHELL HOUSING
PIN TERMINALS



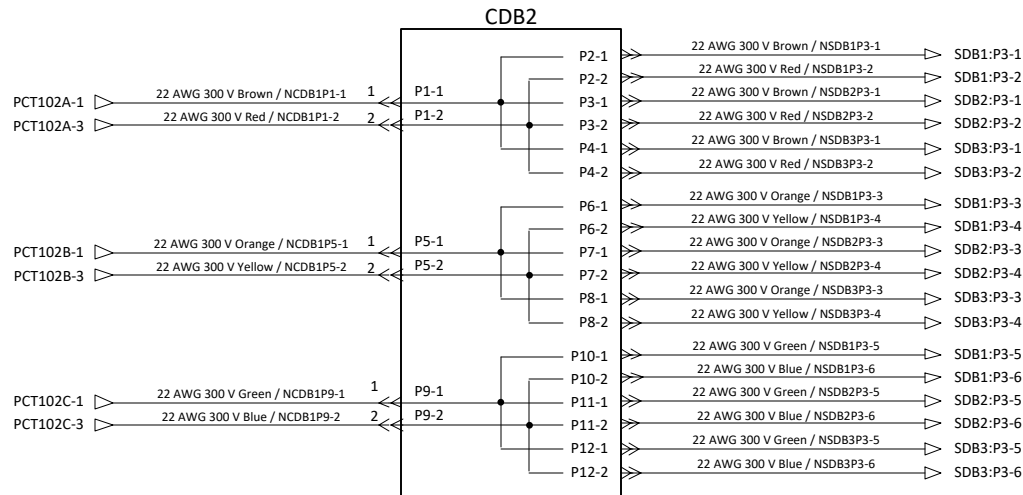
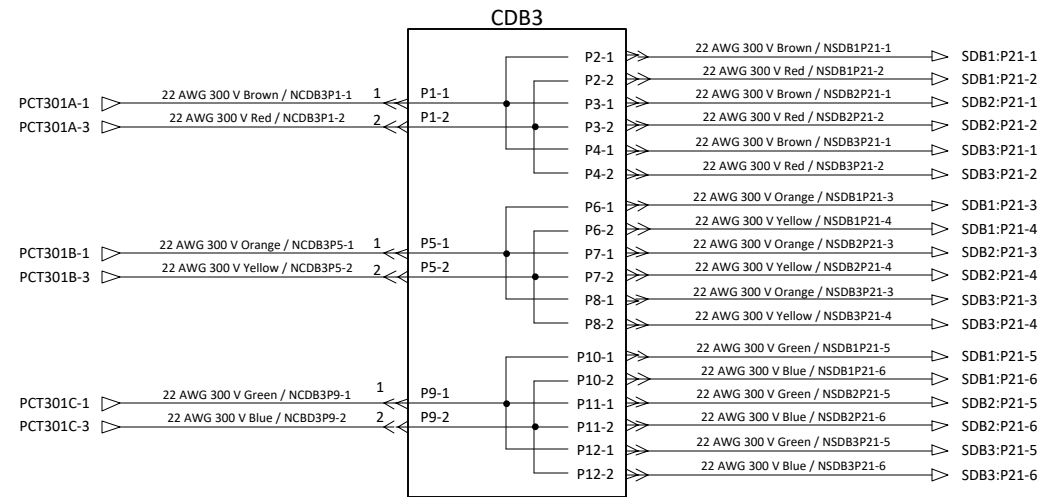
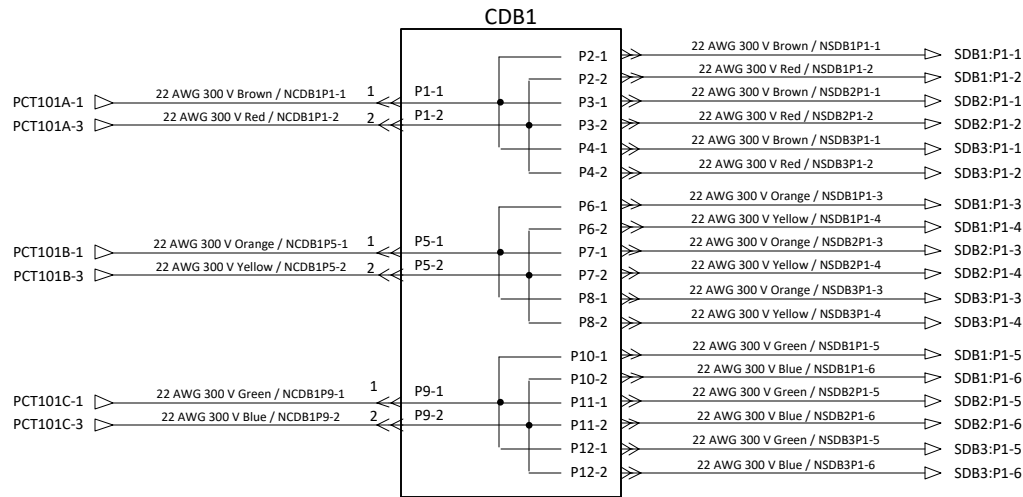
PLUG HOUSING
SOCKET TERMINALS

SHELL HOUSING
PIN TERMINALS



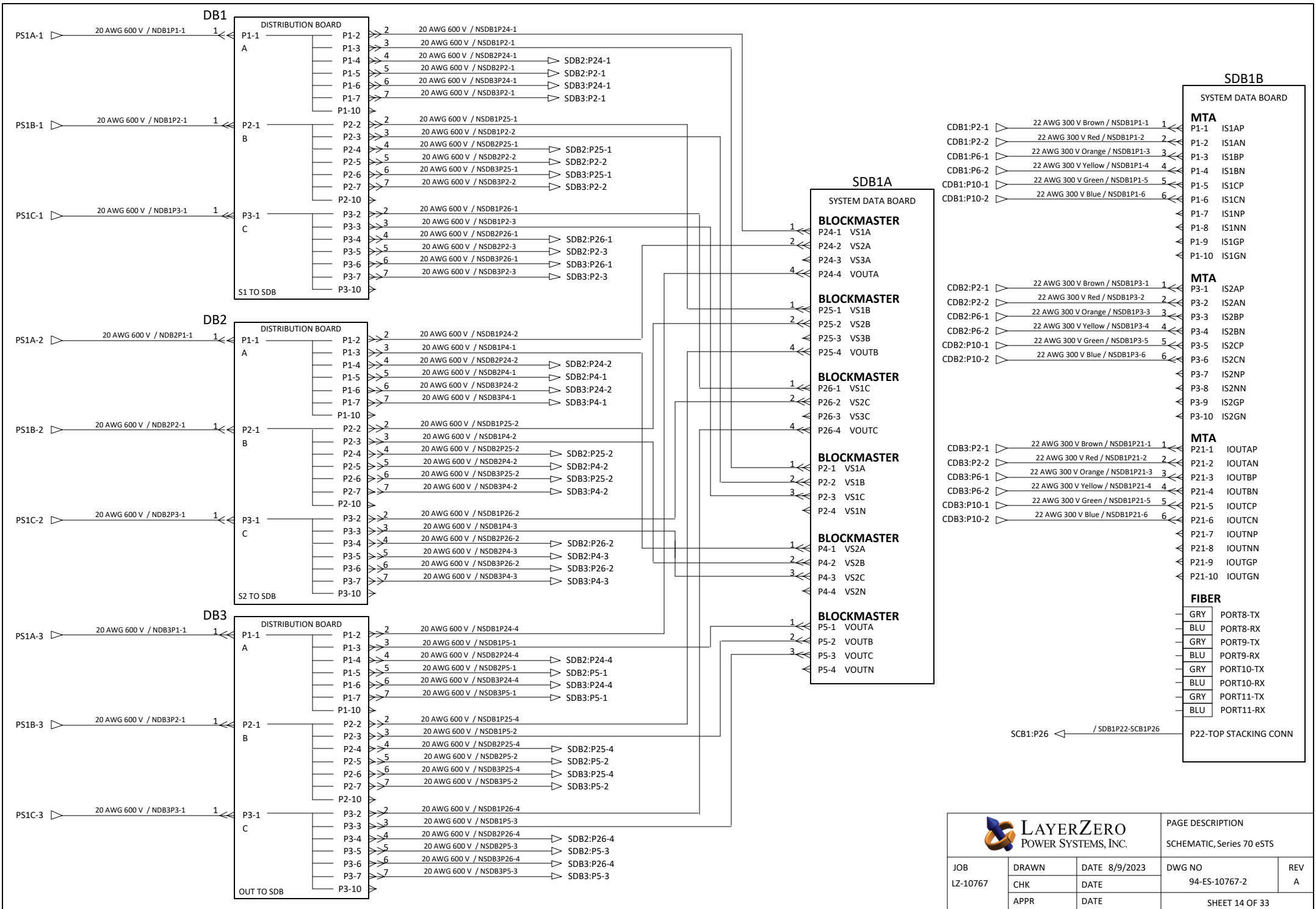
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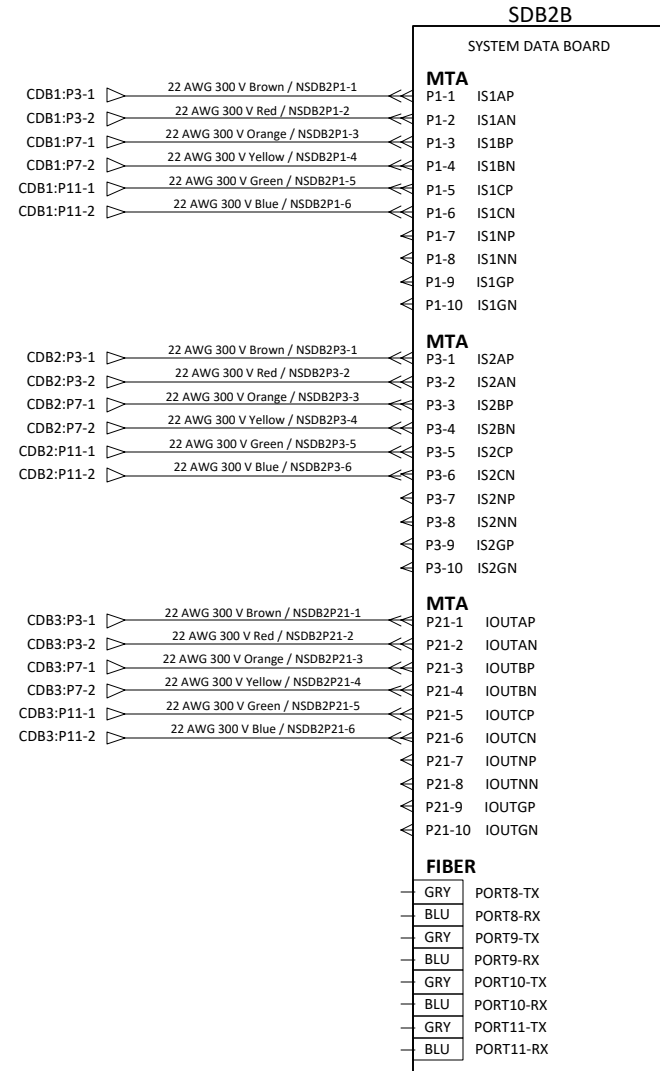
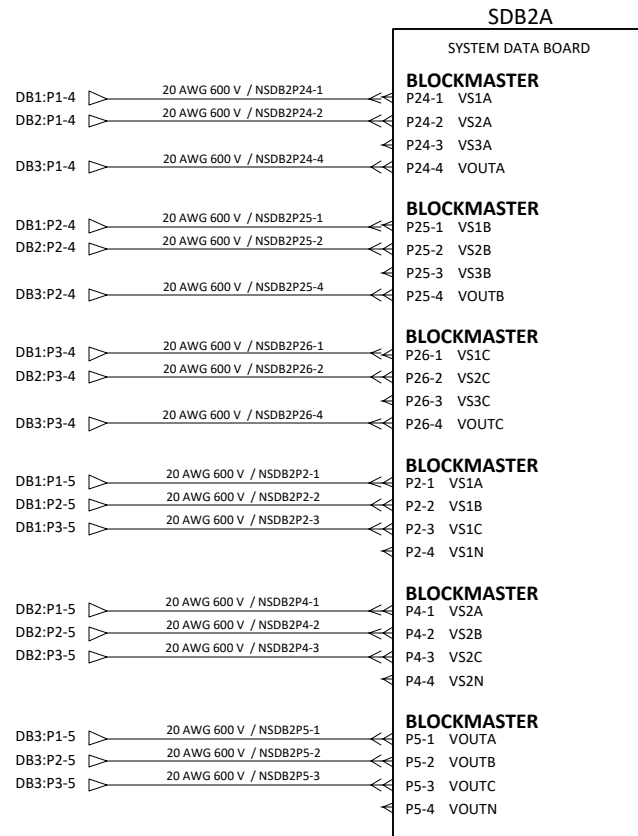
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	APPR	DATE	SHEET 12 OF 33	



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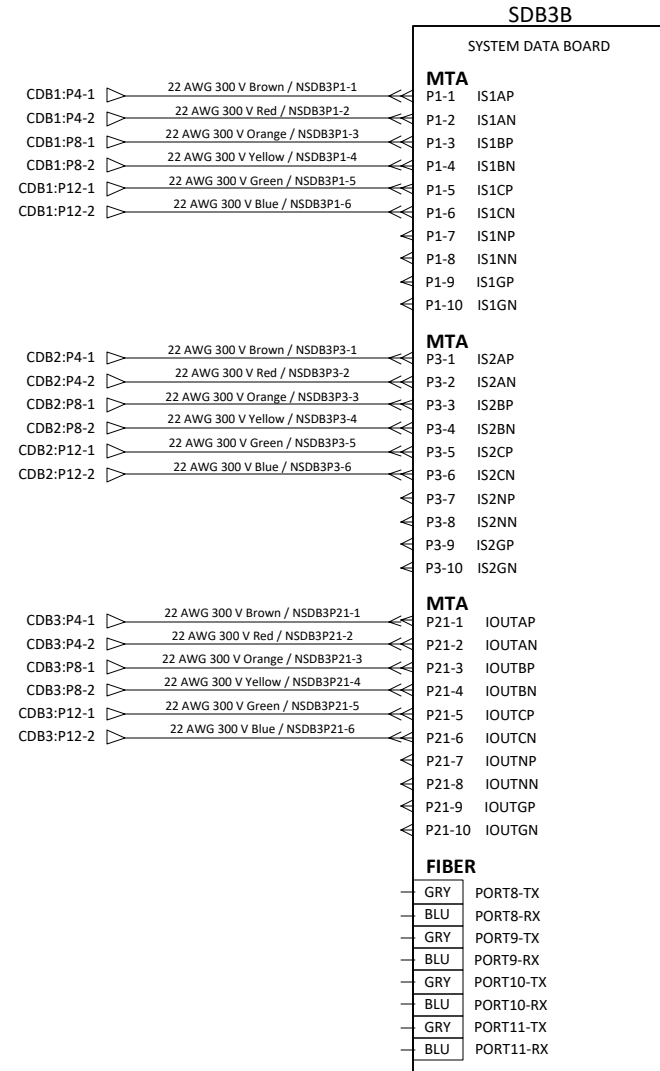
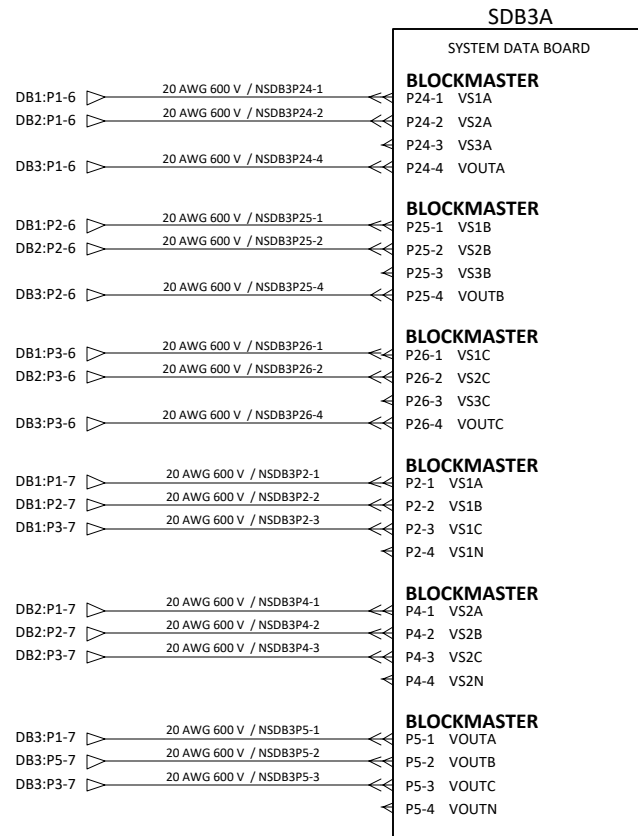
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	APPR	DATE	SHEET 13 OF 33	





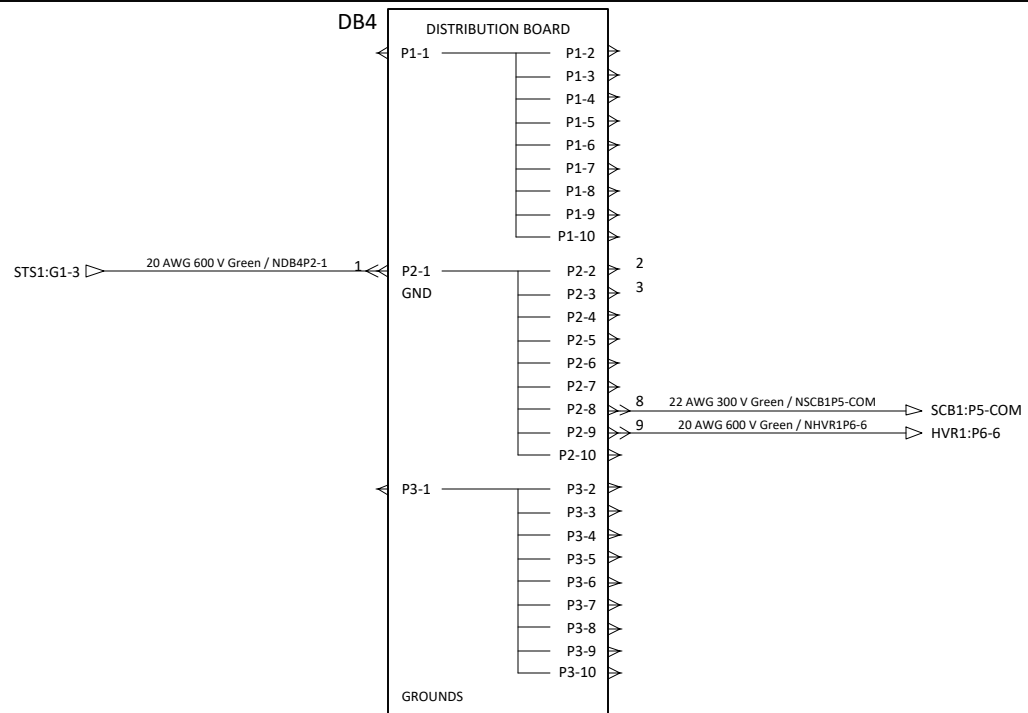
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	APPR	DATE	SHEET 15 OF 33	

PAGE DESCRIPTION
SCHEMATIC, Series 70 eSTS



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SCHEMATIC, Series 70 eSTS

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	APPR	DATE	SHEET 16 OF 33	

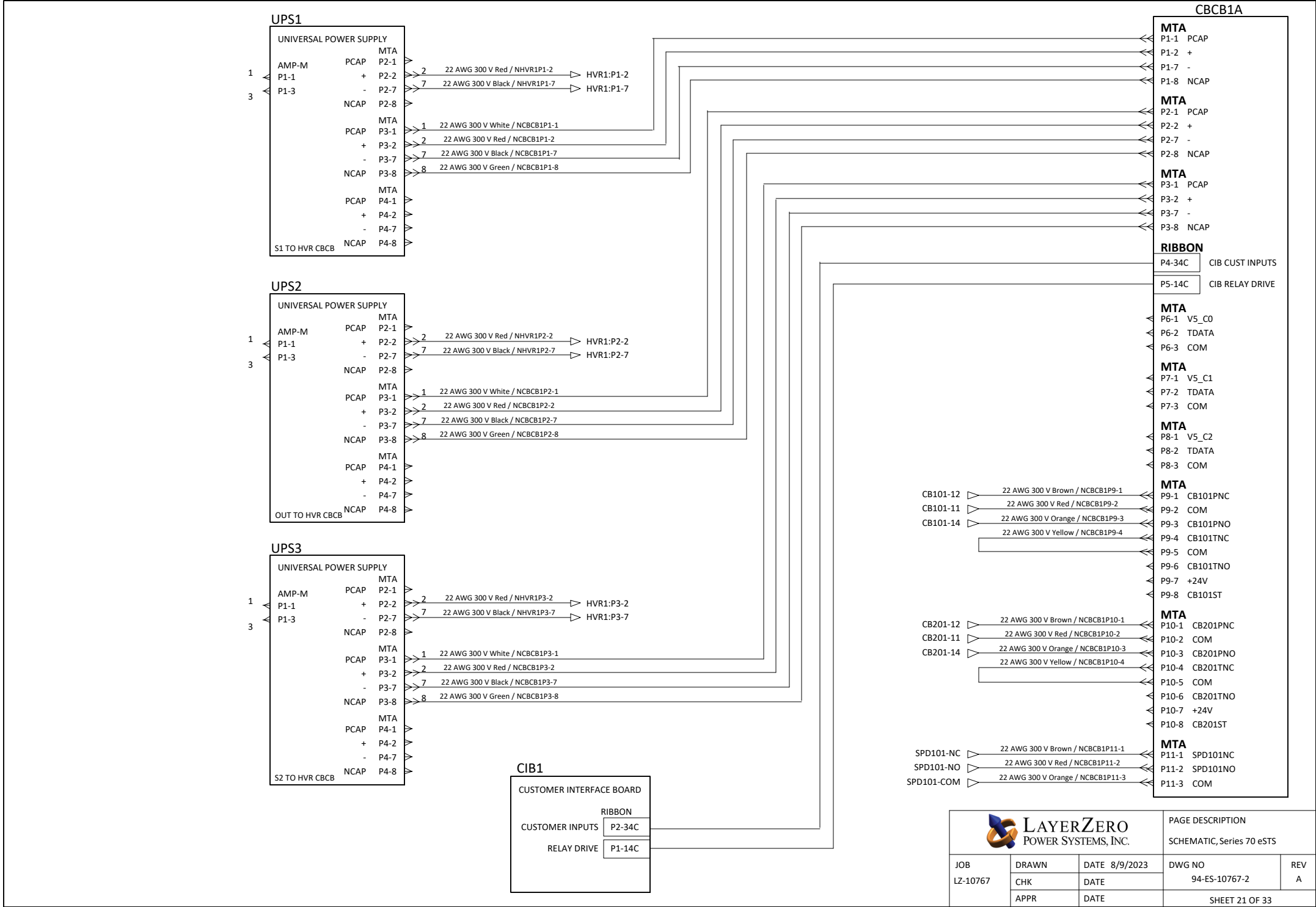


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LZ-10767	CHK	8/9/2023	94-ES-10767-2	A
	APPR	DATE	SHEET 17 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 18 OF 33	

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JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 19 OF 33	

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JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
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	APPR	DATE	SHEET 20 OF 33	



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JOB	DRAWN	DATE	DWG NO	REV
LZ-10767	CHK	DATE	94-ES-10767-2	A
	APPR	DATE	SHEET 21 OF 33	

CBCB1B

PS2A-6	22 AWG 300 V Brown / NCBCB1P12-1	MTA	P12-1	TST101A
PS2A-7	22 AWG 300 V Red / NCBCB1P12-2	MTA	P12-2	COM
PS2B-6	22 AWG 300 V Orange / NCBCB1P12-3	MTA	P12-3	TST101B
PS2B-7	22 AWG 300 V Yellow / NCBCB1P12-4	MTA	P12-4	COM
PS2C-6	22 AWG 300 V Green / NCBCB1P12-5	MTA	P12-5	TST101C
PS2C-7	22 AWG 300 V Blue / NCBCB1P12-6	MTA	P12-6	COM
		MTA	P12-7	TST101N
		MTA	P12-8	COM
CB102-12	22 AWG 300 V Brown / NCBCB1P13-1	MTA	P13-1	CB102PNC
CB102-11	22 AWG 300 V Red / NCBCB1P13-2	MTA	P13-2	COM
CB102-14	22 AWG 300 V Orange / NCBCB1P13-3	MTA	P13-3	CB102PNO
	22 AWG 300 V Yellow / NCBCB1P13-4	MTA	P13-4	CB102TNC
		MTA	P13-5	COM
		MTA	P13-6	CB102TNO
		MTA	P13-7	+24V
		MTA	P13-8	CB102ST
CB202-12	22 AWG 300 V Brown / NCBCB1P14-1	MTA	P14-1	CB202PNC
CB202-11	22 AWG 300 V Red / NCBCB1P14-2	MTA	P14-2	COM
CB202-14	22 AWG 300 V Orange / NCBCB1P14-3	MTA	P14-3	CB202PNO
	22 AWG 300 V Yellow / NCBCB1P14-4	MTA	P14-4	CB202TNC
		MTA	P14-5	COM
		MTA	P14-6	CB202TNO
		MTA	P14-7	+24V
		MTA	P14-8	CB202ST
SPD102-NC	22 AWG 300 V Brown / NCBCB1P15-1	MTA	P15-1	SPD102NC
SPD102-NO	22 AWG 300 V Red / NCBCB1P15-2	MTA	P15-2	SPD102NO
SPD102-COM	22 AWG 300 V Orange / NCBCB1P15-3	MTA	P15-3	COM
PS2A-8	22 AWG 300 V Brown / NCBCB1P16-1	MTA	P16-1	TST102A
PS2A-9	22 AWG 300 V Red / NCBCB1P16-2	MTA	P16-2	COM
PS2B-8	22 AWG 300 V Orange / NCBCB1P16-3	MTA	P16-3	TST102B
PS2B-9	22 AWG 300 V Yellow / NCBCB1P16-4	MTA	P16-4	COM
PS2C-8	22 AWG 300 V Green / NCBCB1P16-5	MTA	P16-5	TST102C
PS2C-9	22 AWG 300 V Blue / NCBCB1P16-6	MTA	P16-6	COM
		MTA	P16-7	TST102N
		MTA	P16-8	COM
		MTA	P17-1	CB103PNC
		MTA	P17-2	COM
		MTA	P17-3	CB103PNO
		MTA	P17-4	CB103TNC
		MTA	P17-5	COM
		MTA	P17-6	CB103TNO
		MTA	P17-7	+24V
		MTA	P17-8	CB103ST
		MTA	P18-1	CB203PNC
		MTA	P18-2	COM
		MTA	P18-3	CB203PNO
		MTA	P18-4	CB203TNC
		MTA	P18-5	COM
		MTA	P18-6	CB203TNO
		MTA	P18-7	+24V
		MTA	P18-8	CB203ST
		MTA	P19-1	SPD103NC
		MTA	P19-2	SPD103NO
		MTA	P19-3	COM

CBCB1C

		MTA	P20-1	TST103A
		MTA	P20-2	COM
		MTA	P20-3	TST103B
		MTA	P20-4	COM
		MTA	P20-5	TST103C
		MTA	P20-6	COM
		MTA	P20-7	TST103N
		MTA	P20-8	COM
CB301-12	22 AWG 300 V Brown / NCBCB1P21-1	MTA	P21-1	CB301PNC
CB301-11	22 AWG 300 V Red / NCBCB1P21-2	MTA	P21-2	COM
CB301-14	22 AWG 300 V Orange / NCBCB1P21-3	MTA	P21-3	CB301PNO
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		MTA	P21-5	COM
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	22 AWG 300 V Yellow / NCBCB1P23-4	MTA	P22-4	CB302TNC
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		MTA	P22-6	CB302TNO
		MTA	P23-1	CBSP1PNC
		MTA	P23-2	COM
		MTA	P23-3	CBSP1PNO
		MTA	P23-4	CBSP1TNC
		MTA	P23-5	COM
		MTA	P23-6	CBSP1TNO
		MTA	P23-7	+24V
		MTA	P23-8	CBSP1ST
		MTA	P24-1	CBSP2PNC
		MTA	P24-2	COM
		MTA	P24-3	CBSP2PNO
		MTA	P24-4	CBSP2TNC
		MTA	P24-5	COM
		MTA	P24-6	CBSP2TNO
		MTA	P24-7	+24V
		MTA	P24-8	CBSP2ST
		MTA	P48-1	+12V
		MTA	P48-2	COM
		MTA	P49-1	FSS1-NO
		MTA	P49-2	COM
		MTA	P49-3	FSS1-NC
		MTA	P49-4	COM
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		MTA	P50-2	COM
		MTA	P51-1	FSS2-NO
		MTA	P51-2	COM
		MTA	P51-3	FSS2-NC
		MTA	P51-4	COM
		MTA	P52-1	+12V
		MTA	P52-2	COM
		MTA	P53-1	FSS3-NO
		MTA	P53-2	COM
		MTA	P53-3	FSS3-NC
		MTA	P53-4	COM

CBCB1D

		MTA	P54-1	+12V
		MTA	P54-2	COM
		MTA	P55-1	FSS4NO
		MTA	P55-2	COM
		MTA	P55-3	FSS4NC
		MTA	P55-4	COM
		MTA	P56-1	TSTAMB1
		MTA	P56-2	COM
		MTA	P56-3	TSTAMB2
		MTA	P56-4	COM
		MTA	P57-1	CABSW1NC
		MTA	P57-2	COM
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		MTA	P57-4	CABSW2NC
		MTA	P57-5	COM
		MTA	P57-6	CABSW2NO
		MTA	P57-7	CABSW3NC
		MTA	P57-8	COM
		MTA	P57-9	CABSW3NO
		MTA	P57-10	CABSW4NC
		MTA	P57-11	COM
		MTA	P57-12	CABSW4NO
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		MTA	P58-2	COM
		MTA	P58-3	SPARE1NO
		MTA	P58-4	SPARE2NC
		MTA	P58-5	COM
		MTA	P58-6	SPARE2NO
		MTA	P59-1	SPARE3NC
		MTA	P59-2	COM
		MTA	P59-3	SPARE3NO
		MTA	P59-4	SPARE4NC
		MTA	P59-5	COM
		MTA	P59-6	SPARE4NO
		FIBER	GRY	PORT0-TX
		FIBER	BLU	PORT0-RX
		FIBER	GRY	PORT1-TX
		FIBER	BLU	PORT1-RX
		FIBER	GRY	PORT2-TX
		FIBER	BLU	PORT2-RX

TSTAMB1

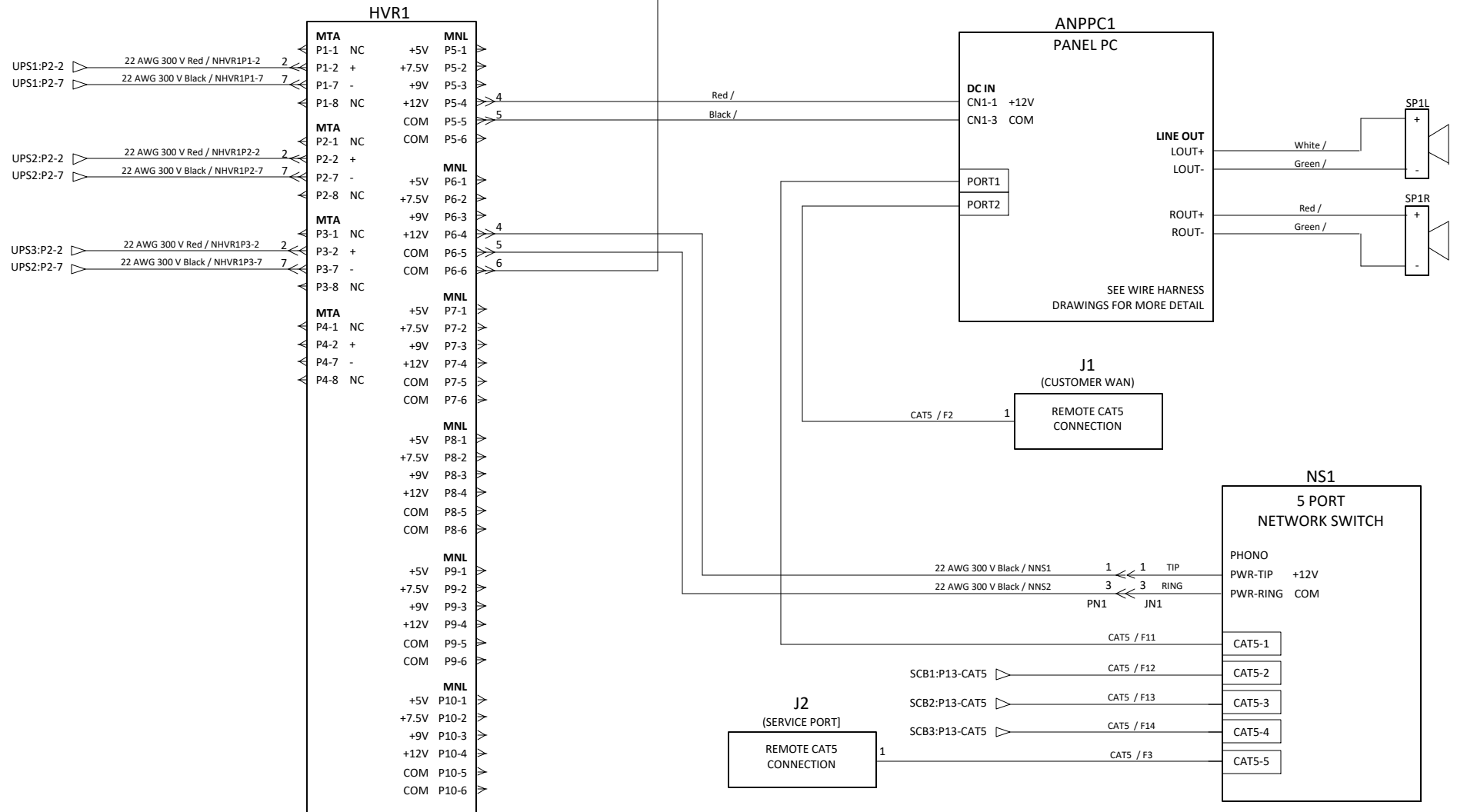
DOORSW1
(SHOWN WITH
DOOR OPEN)DOORSW2
(SHOWN WITH
DOOR OPEN)

SCB1:PORT6-RX-1	FIBER / F7B	1	GRY	PORT0-TX
SCB1:PORT6-TX-1	FIBER / F7A	1	BLU	PORT0-RX
SCB2:PORT6-RX-1	FIBER / F17B	1	GRY	PORT1-TX
SCB2:PORT6-TX-1	FIBER / F17A	1	BLU	PORT1-RX
SCB3:PORT6-RX-1	FIBER / F27B	1	GRY	PORT2-TX
SCB3:PORT6-TX-1	FIBER / F27A	1	BLU	PORT2-RX

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SCHEMATIC, Series 70 eSTS

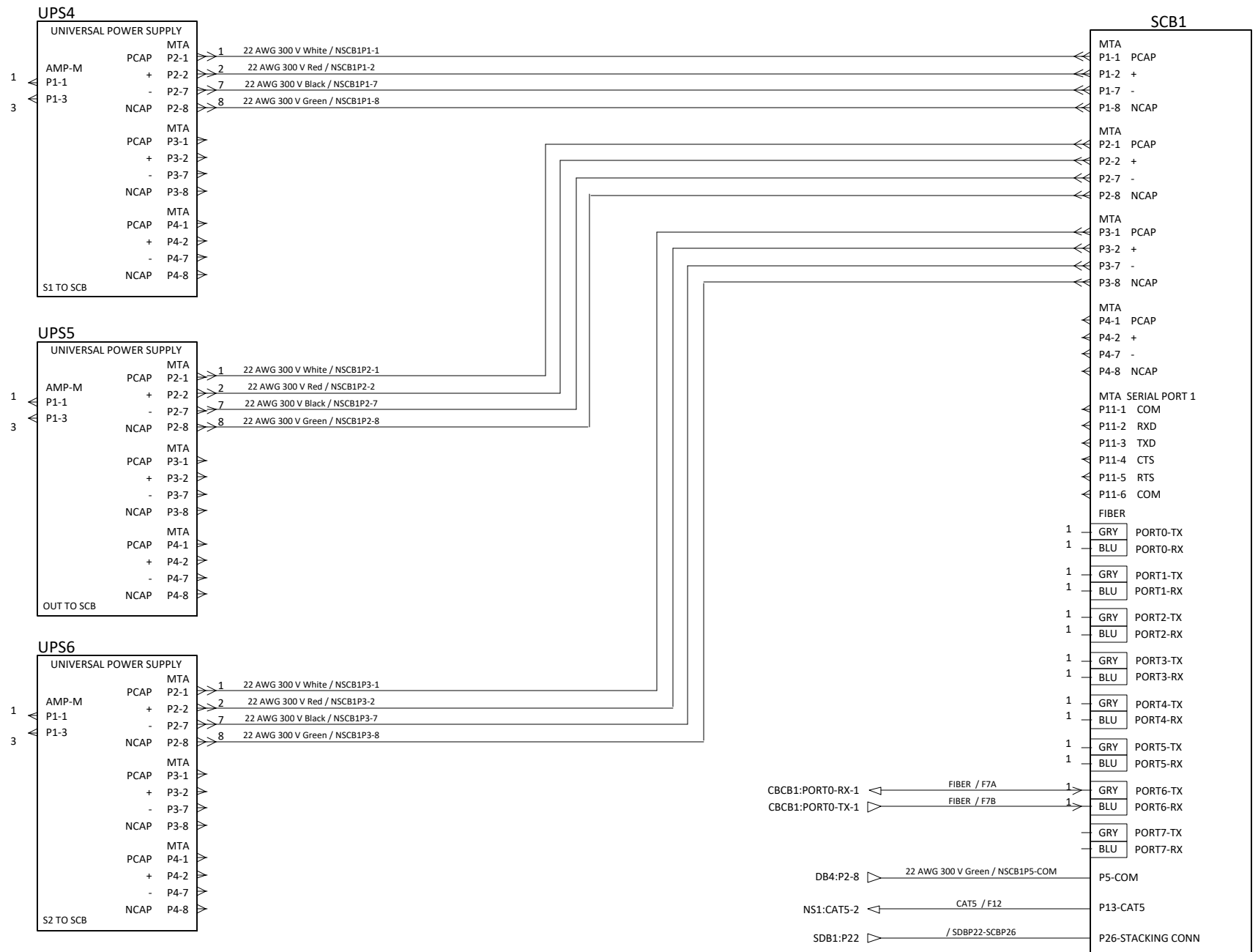
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LZ-10767	CHK	DATE		94-ES-10767-2	A
	APPR	DATE			
				SHEET 22 OF 33	

DB4:P2-9 20 AWG 600 V Green / NHVR1P6-6



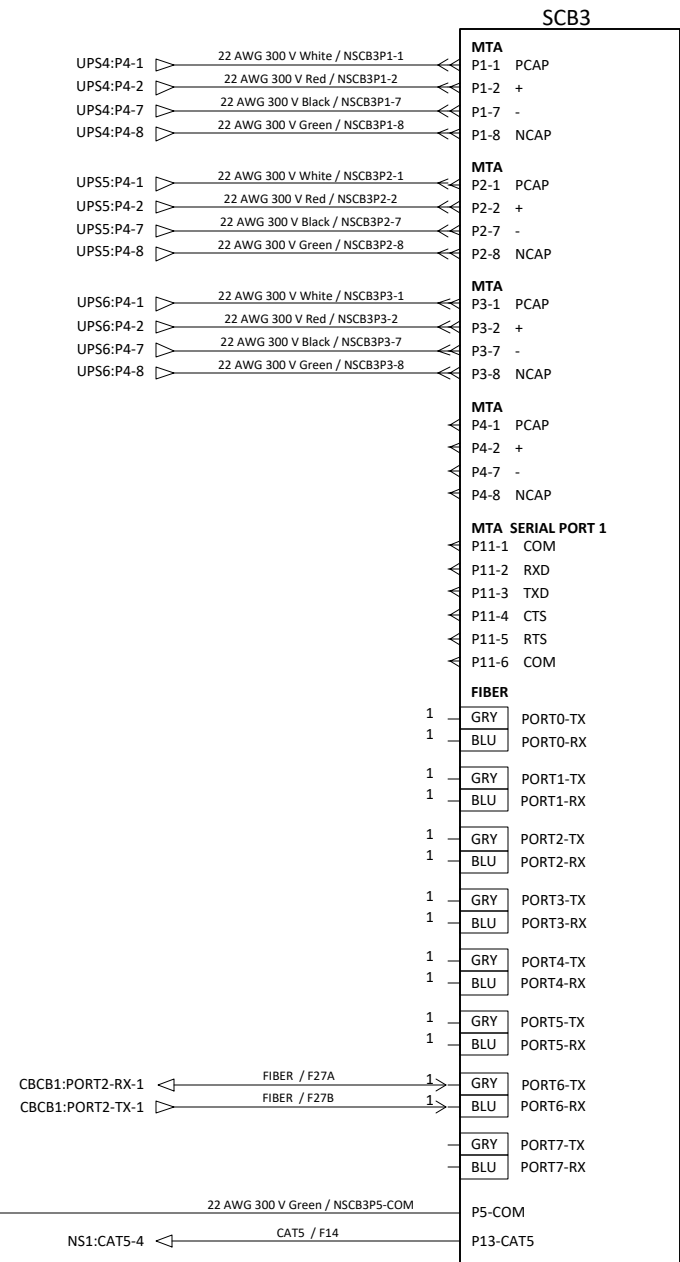
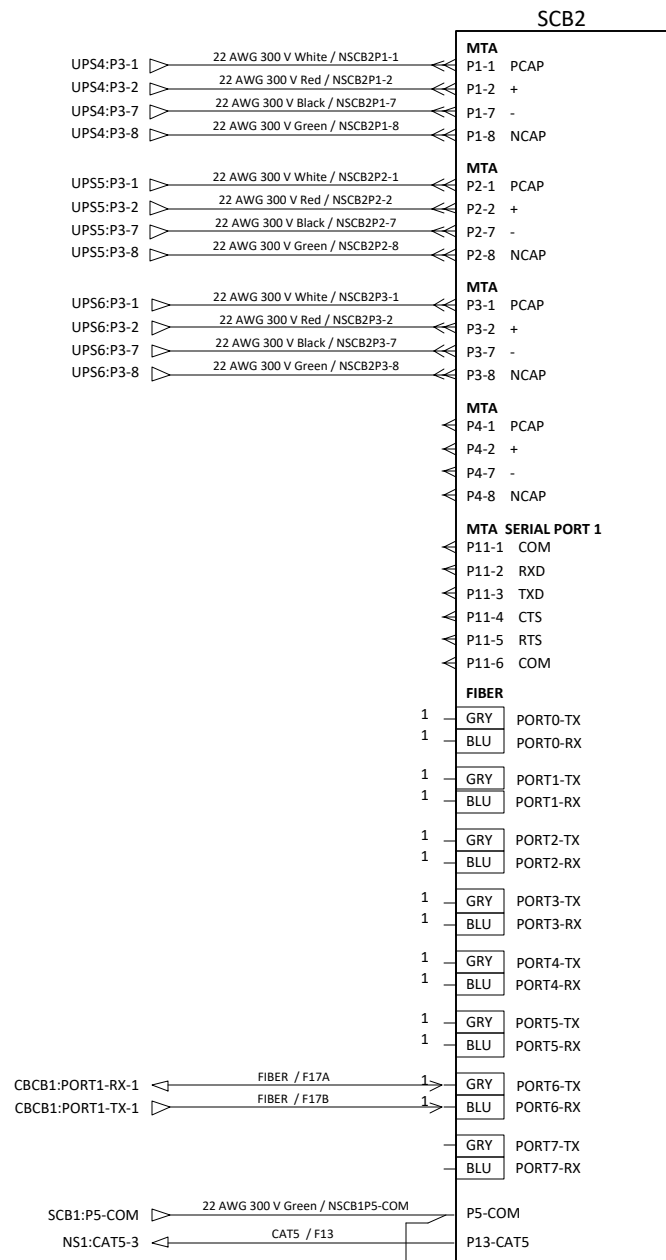
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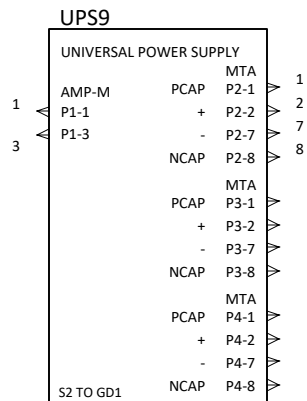
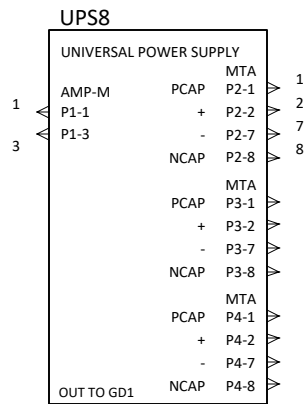
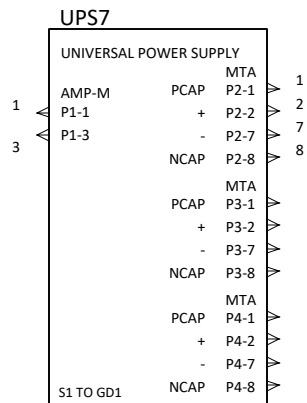
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	CHK	DATE		
	APPR	DATE	SHEET 24 OF 33	



PAGE DESCRIPTION
SCHEMATIC, Series 70 eSTS

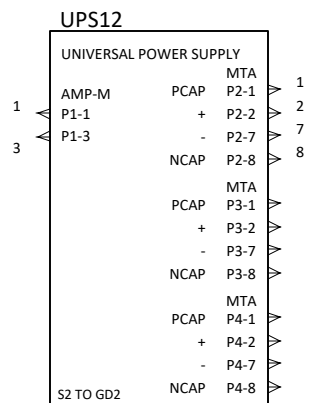
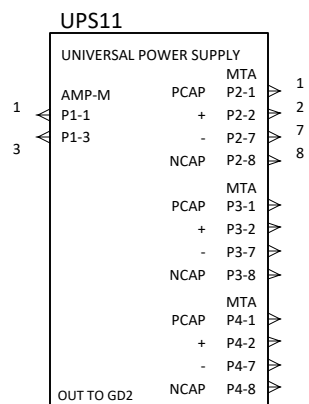
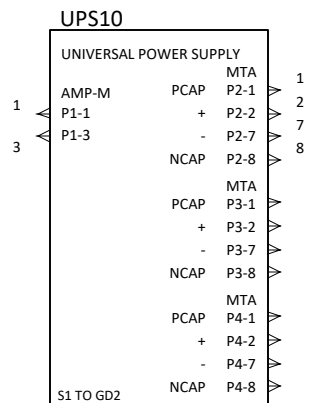
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	APPR	DATE	SHEET 25 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 26 OF 33	



 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE		
			SHEET 27 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 28 OF 33	



			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 29 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 30 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 31 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 32 OF 33	

 LAYERZERO POWER SYSTEMS, INC.			PAGE DESCRIPTION SCHEMATIC, Series 70 eSTS	
JOB LZ-10767	DRAWN	DATE 8/9/2023	DWG NO 94-ES-10767-2	REV A
	CHK	DATE		
	APPR	DATE	SHEET 33 OF 33	