

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

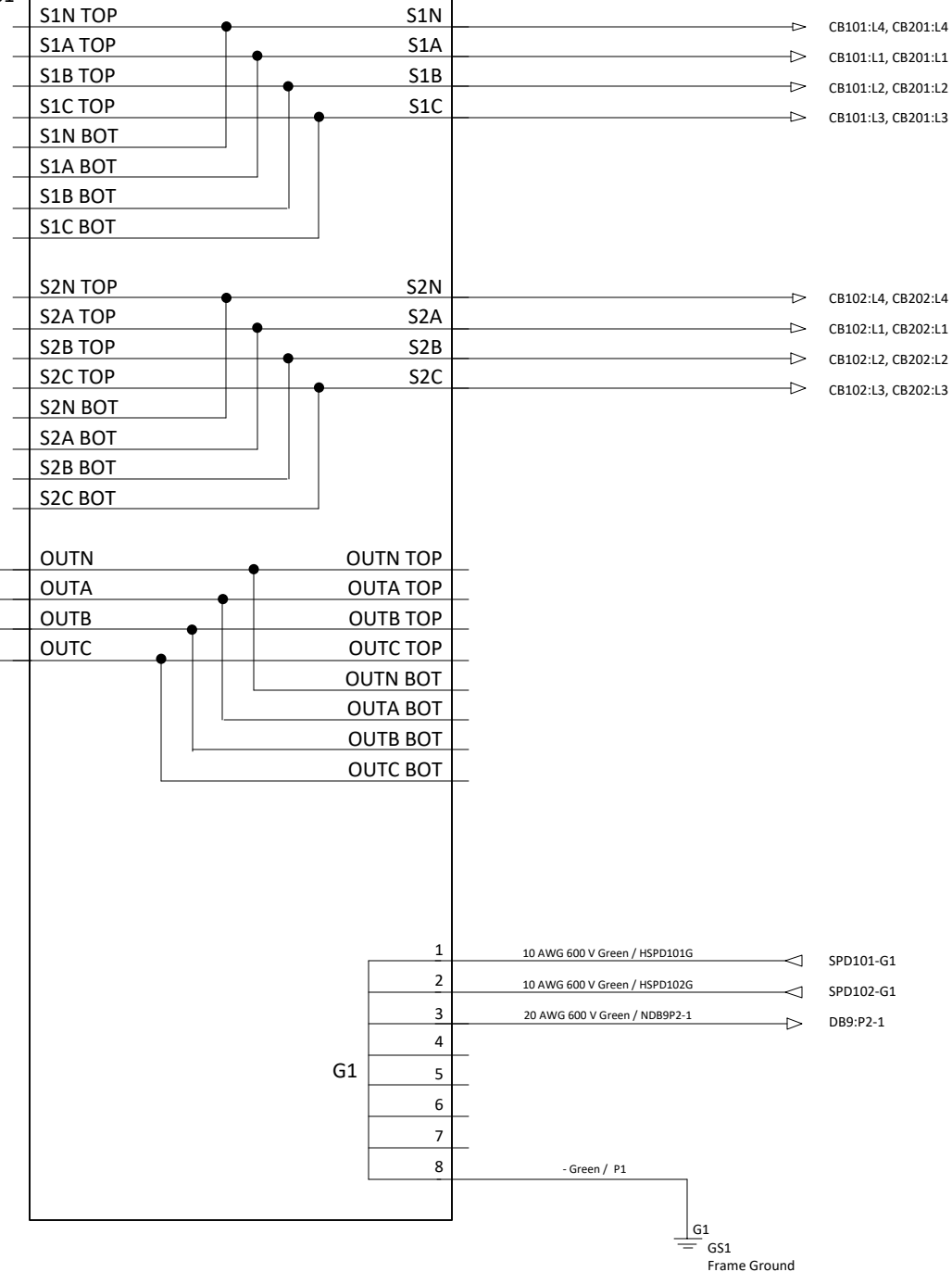
WHITE FOR A WIRE
RED FOR B WIRE
YELLOW FOR J WIRE



PAGE DESCRIPTION
SCHEMATIC, Series 70 eSTS

JOB LZ-11038	DRAWN	DATE 8/9/2023	DWG NO 94-ES-11038-2	REV A
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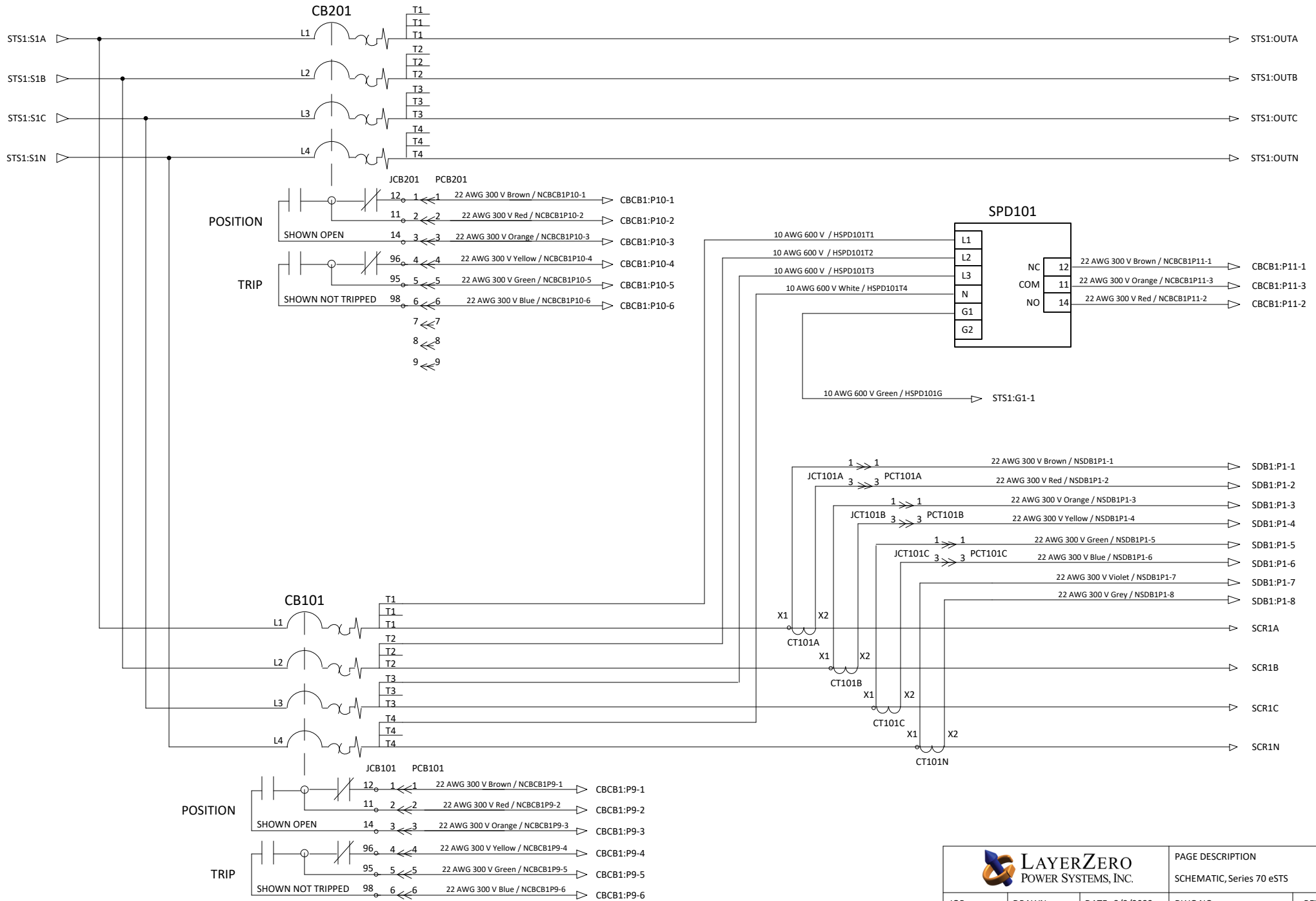
STS1



INPUT VOLTAGE	120/208V
CURRENT	250A
REDUNDANCY	SMR
NUMBER OF POLES	4-pole
NUMBER OF WIRES	4-wire

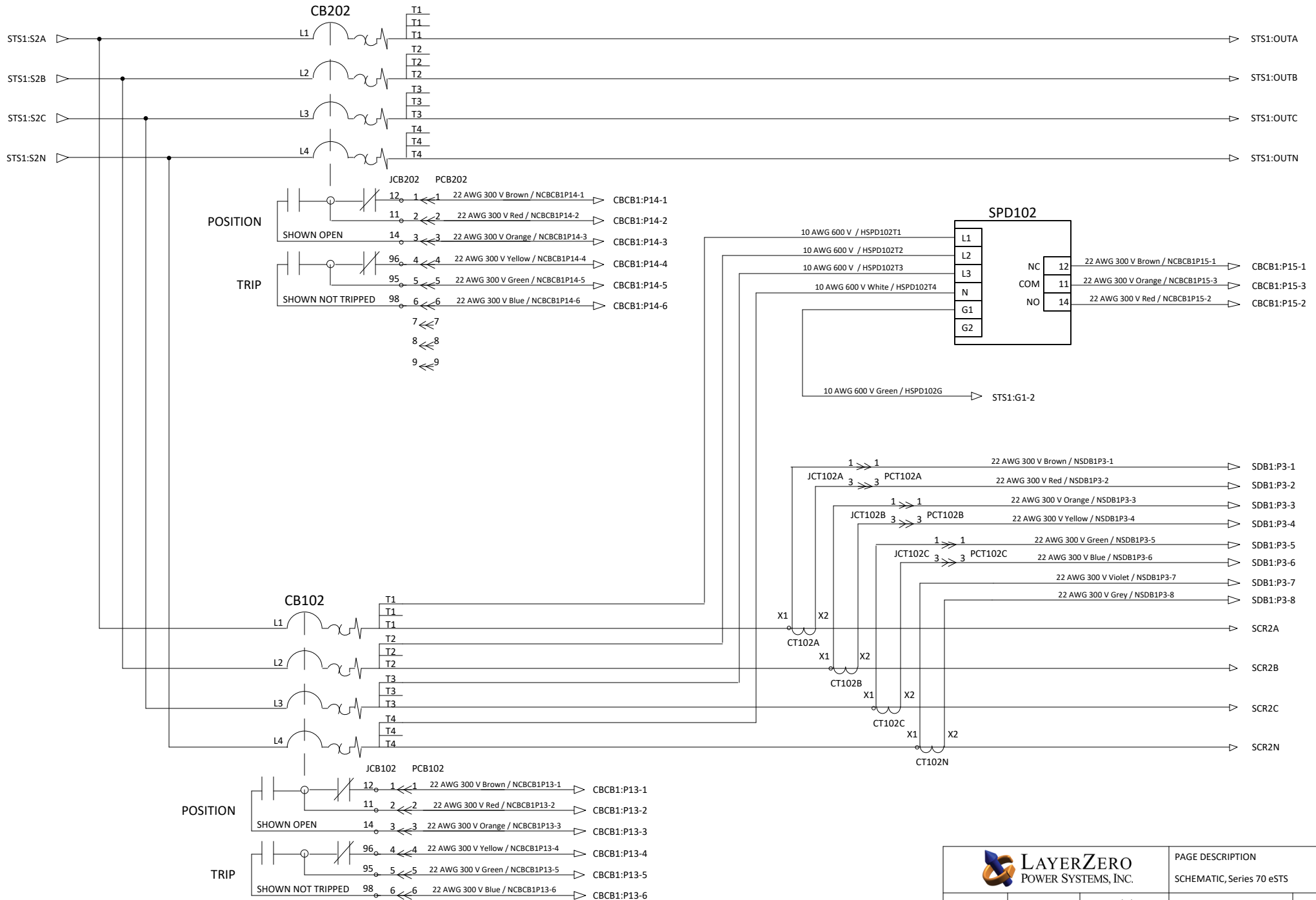
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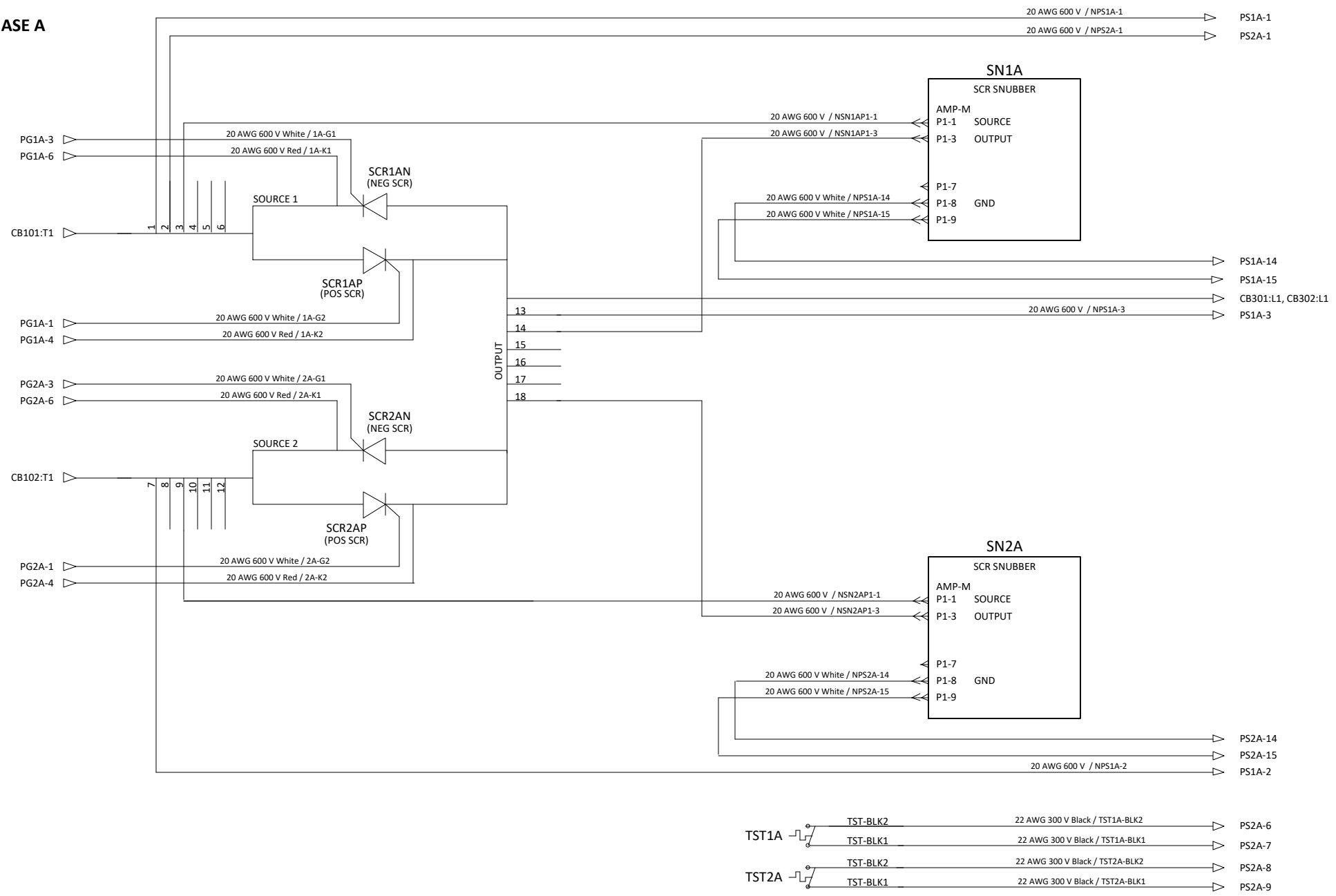
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SOURCE 2



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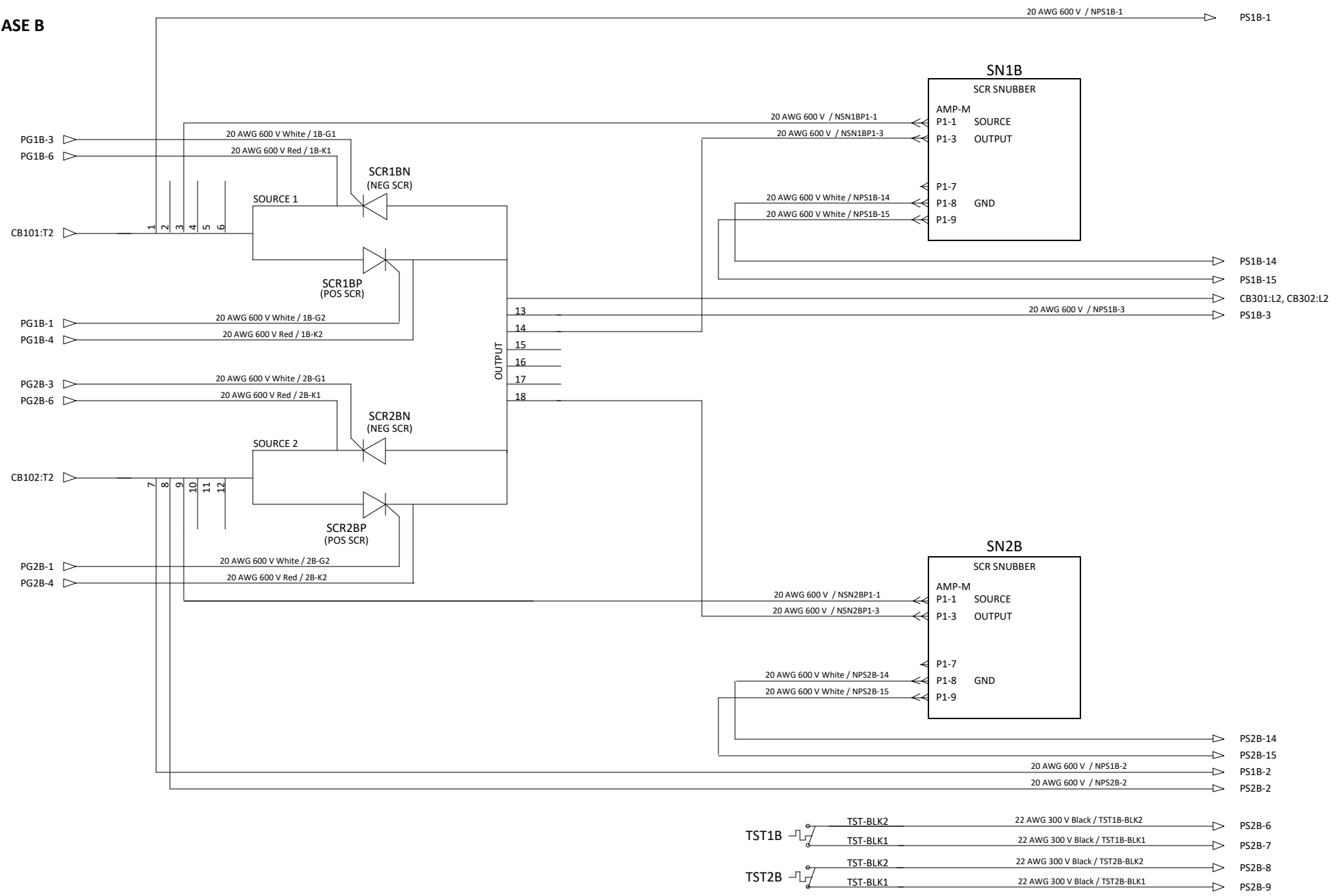
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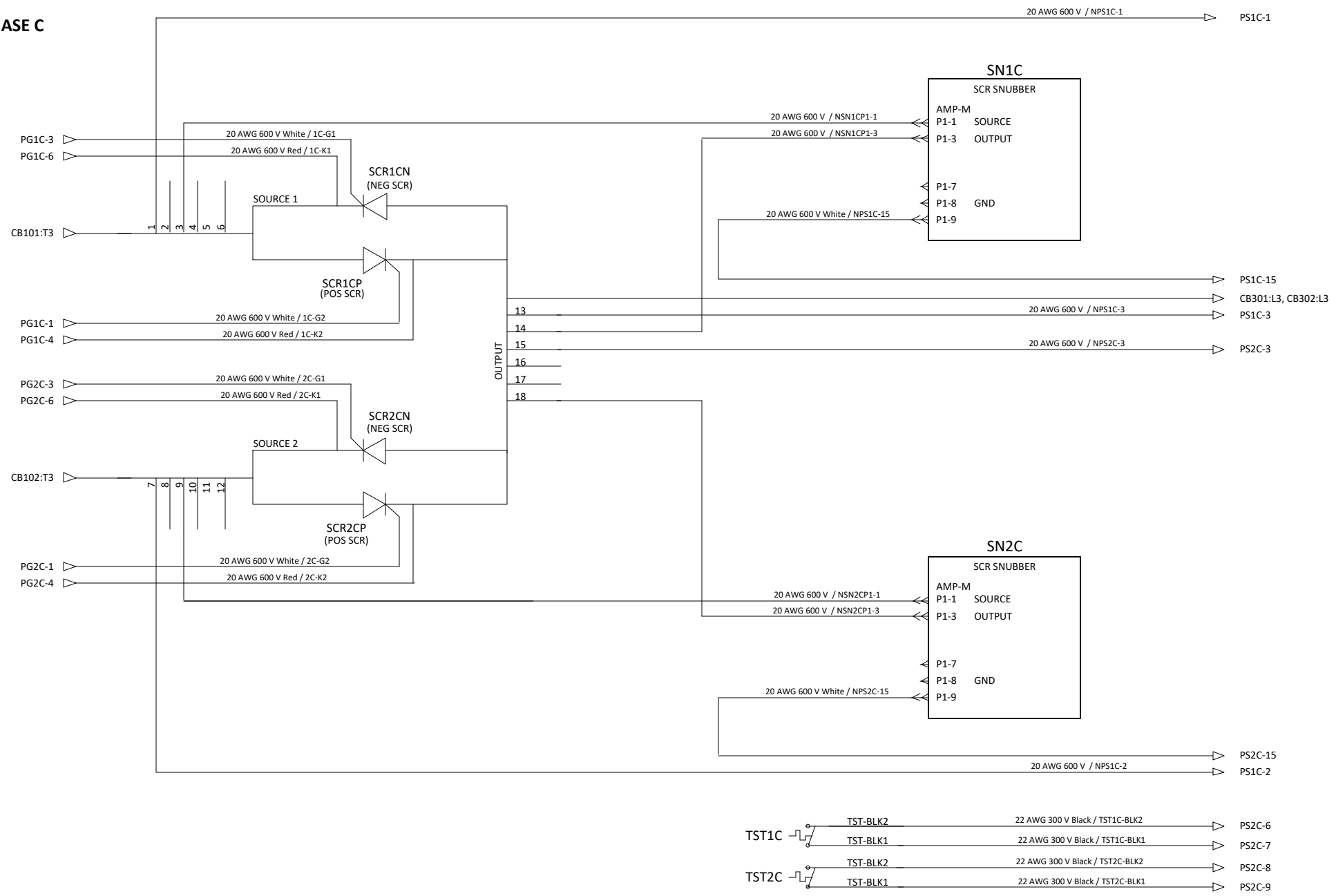
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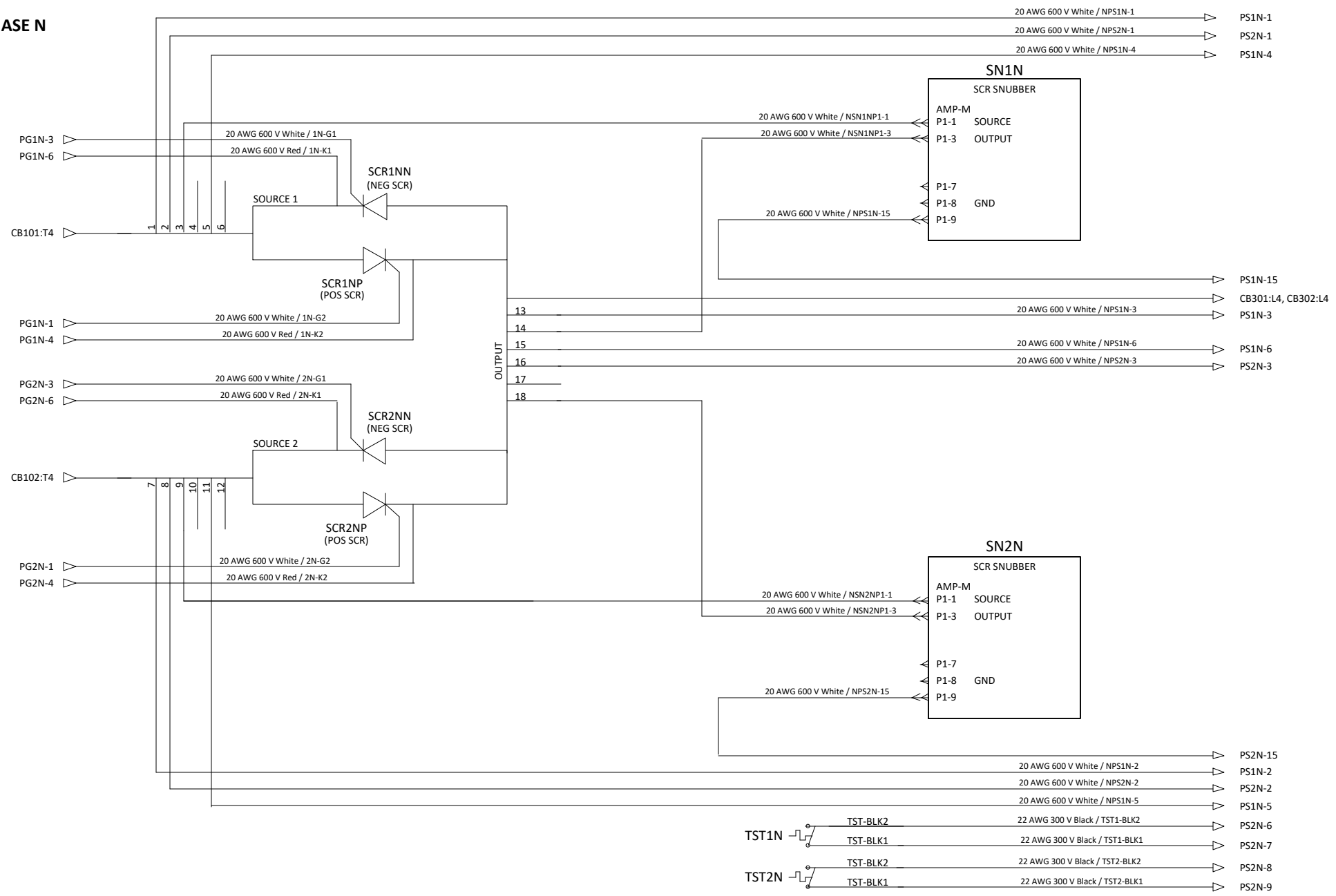
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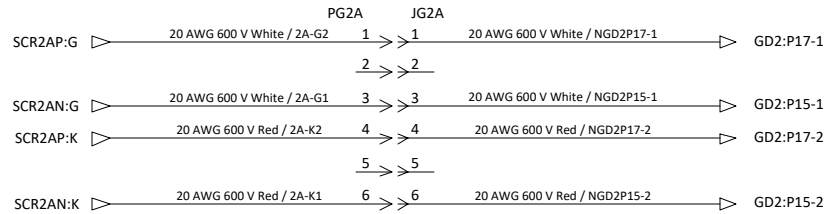
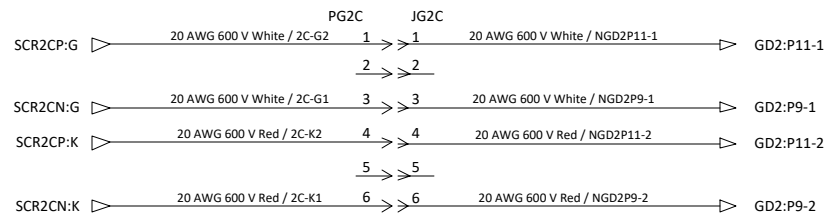
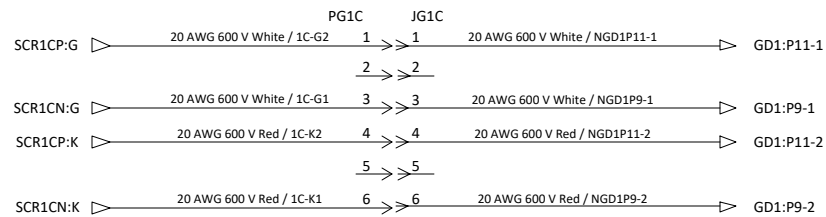
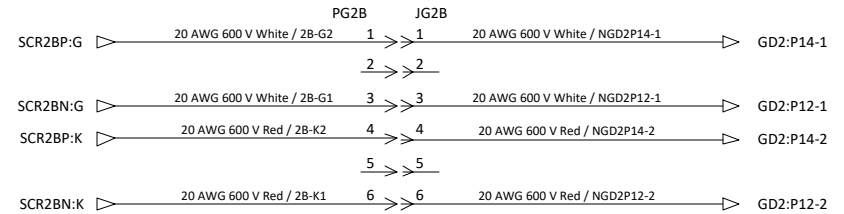
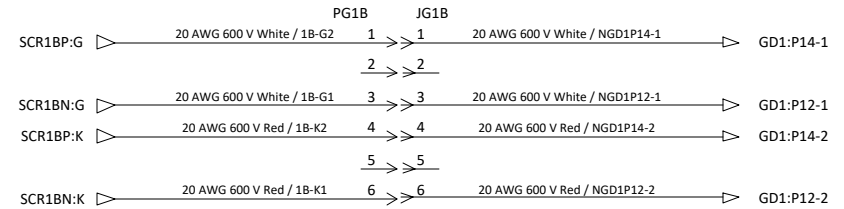


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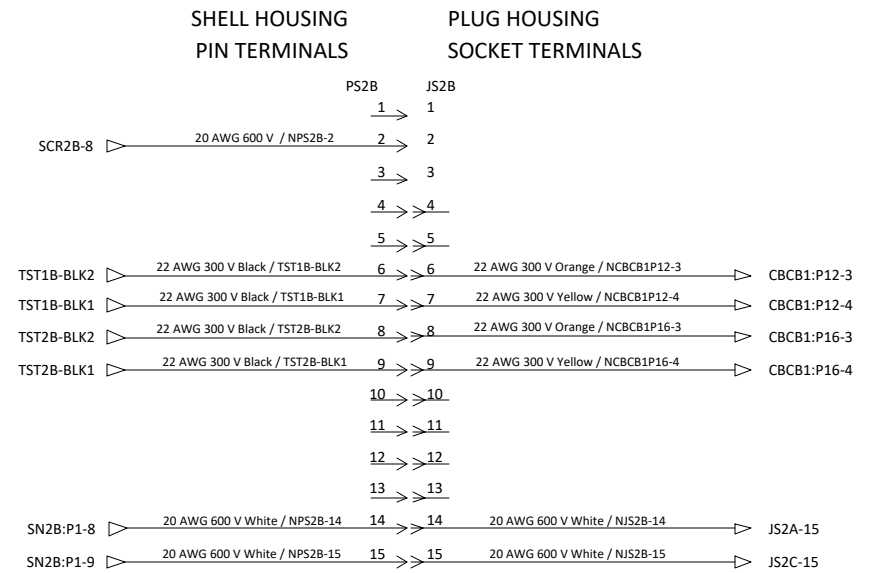
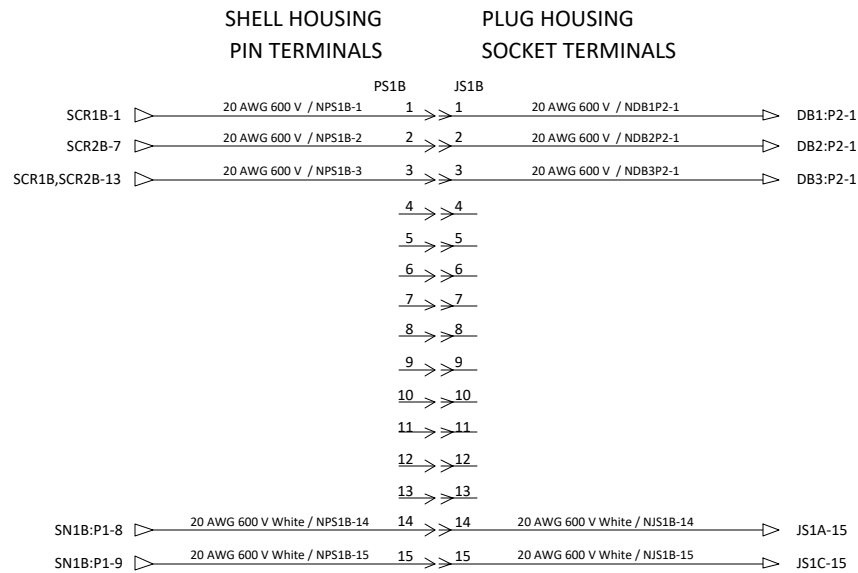
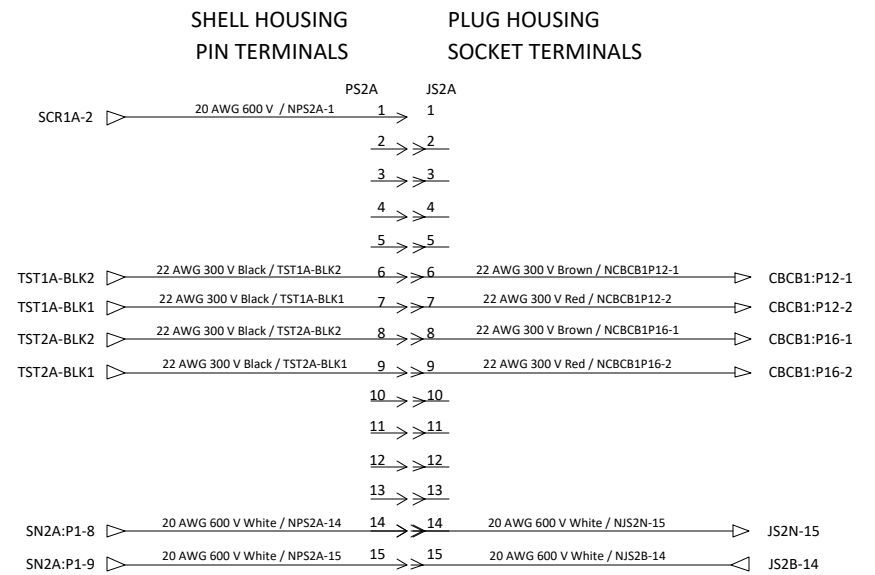
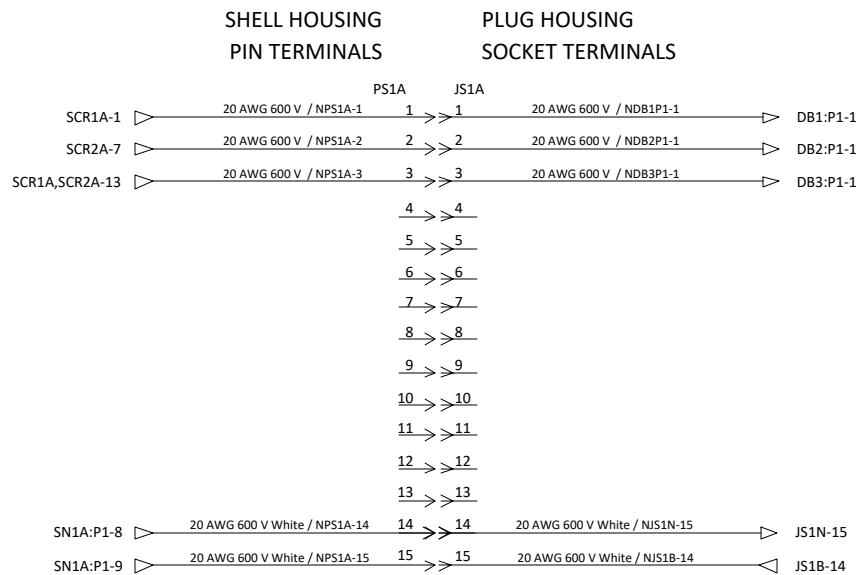
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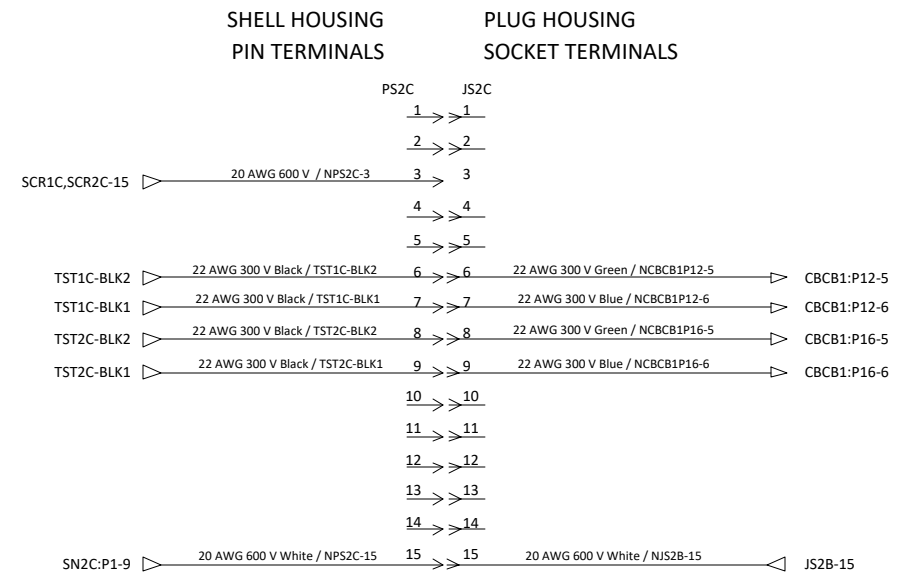
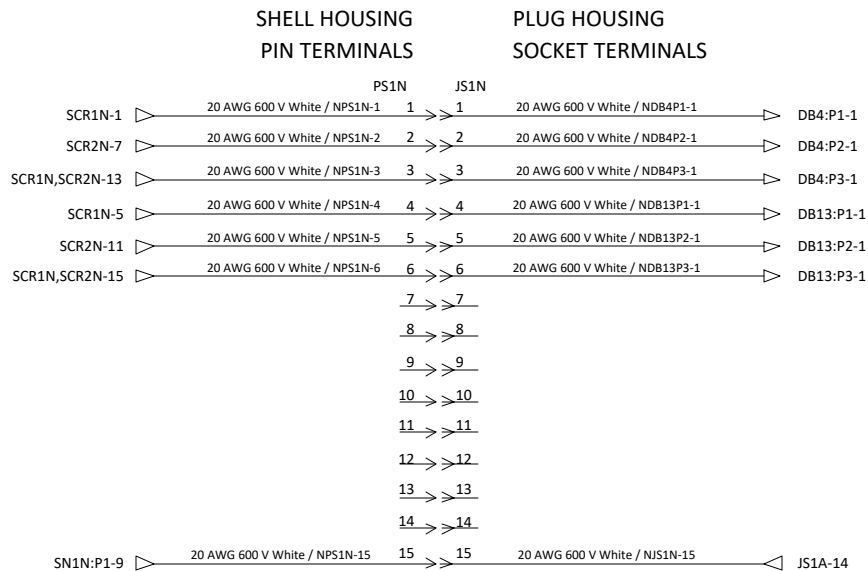
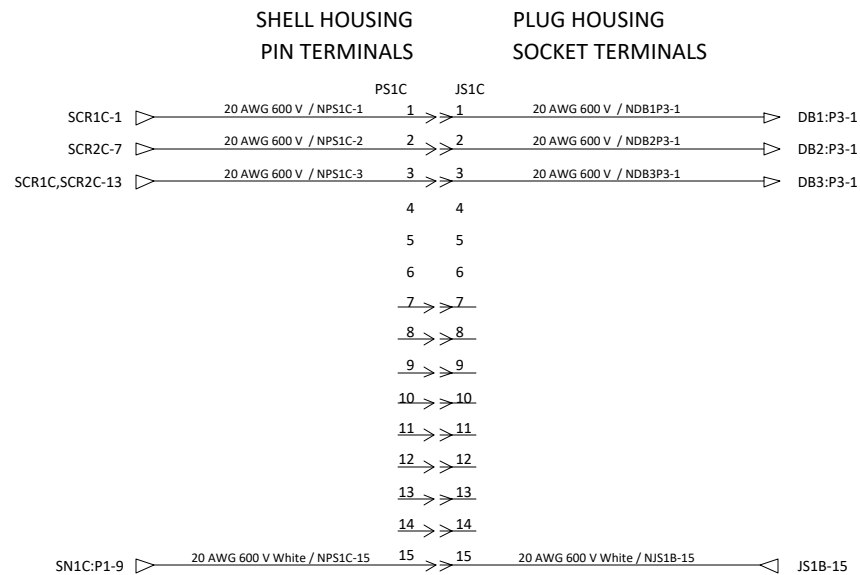
SHELL HOUSING
PIN TERMINALSPLUG HOUSING
SOCKET TERMINALSSHELL HOUSING
PIN TERMINALSPLUG HOUSING
SOCKET TERMINALSSHELL HOUSING
PIN TERMINALSPLUG HOUSING
SOCKET TERMINALSSHELL HOUSING
PIN TERMINALSPLUG HOUSING
SOCKET TERMINALSPAGE DESCRIPTION
SCHEMATIC, Series 70 eSTS

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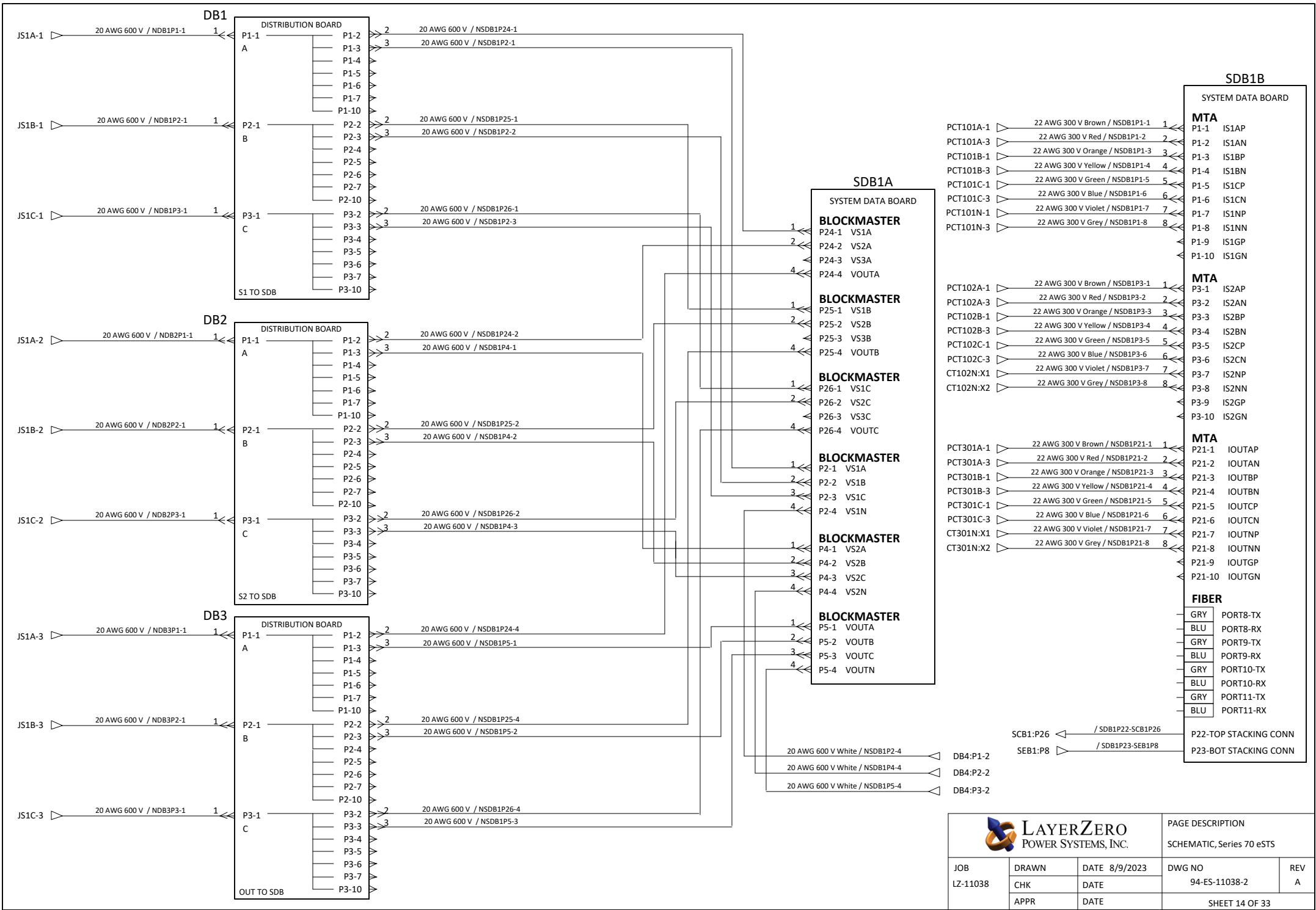
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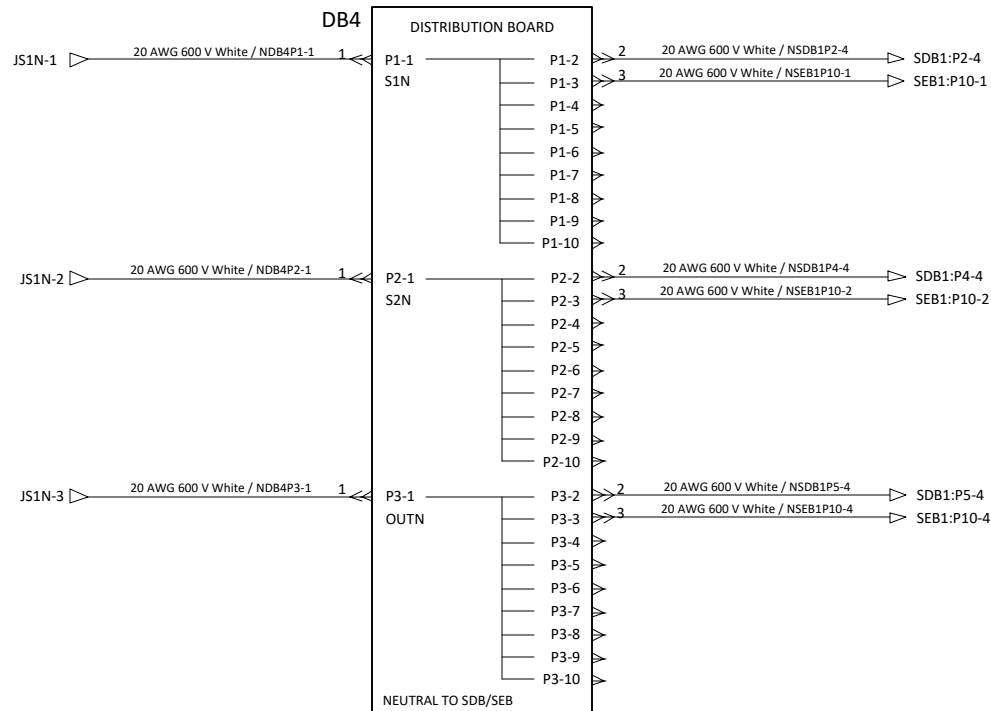
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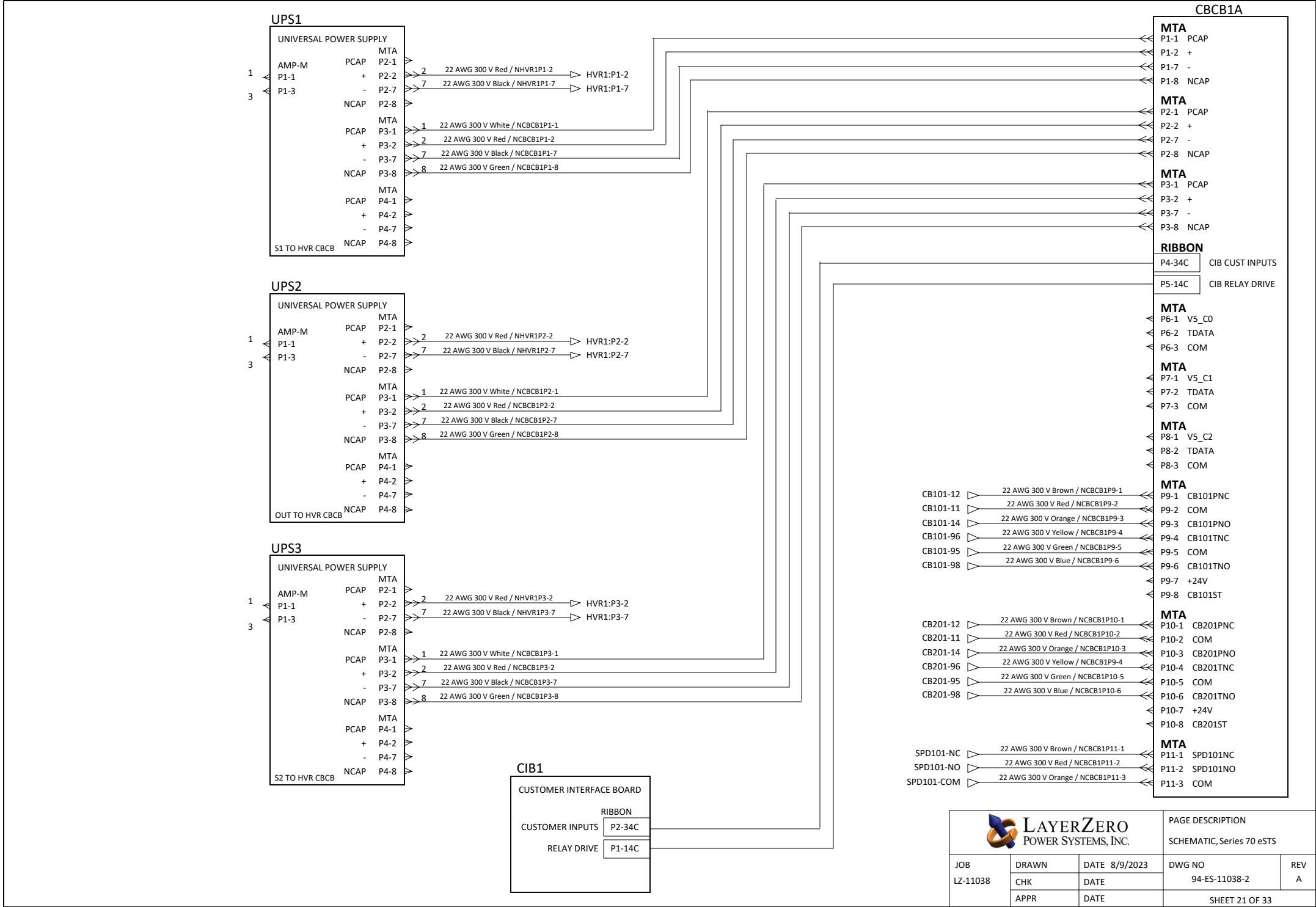
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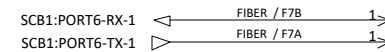
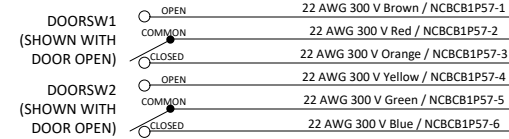
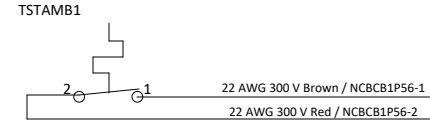
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JS2A-7	22 AWG 300 V Red / NCBCB1P12-2	P12-2	COM
JS2B-6	22 AWG 300 V Orange / NCBCB1P12-3	P12-3	TST101B
JS2B-7	22 AWG 300 V Yellow / NCBCB1P12-4	P12-4	COM
JS2C-6	22 AWG 300 V Green / NCBCB1P12-5	P12-5	TST101C
JS2C-7	22 AWG 300 V Blue / NCBCB1P12-6	P12-6	COM
JS2N-6	22 AWG 300 V Violet / NCBCB1P12-7	P12-7	TST101N
JS2N-7	22 AWG 300 V Grey / NCBCB1P12-8	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	P13-2	COM
CB102-14	22 AWG 300 V Orange / NCBCB1P13-3	P13-3	CB102PNO
CB102-96	22 AWG 300 V Yellow / NCBCB1P13-4	P13-4	CB102TNC
CB102-95	22 AWG 300 V Green / NCBCB1P13-5	P13-5	COM
CB102-98	22 AWG 300 V Blue / NCBCB1P13-6	P13-6	CB102TNO
		P13-7	+24V
		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	P14-2	COM
CB202-14	22 AWG 300 V Orange / NCBCB1P14-3	P14-3	CB202PNO
CB202-96	22 AWG 300 V Yellow / NCBCB1P14-4	P14-4	CB202TNC
CB202-95	22 AWG 300 V Green / NCBCB1P14-5	P14-5	COM
CB202-98	22 AWG 300 V Blue / NCBCB1P14-6	P14-6	CB202TNO
		P14-7	+24V
		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	P15-2	SPD102NO
SPD102-COM	22 AWG 300 V Orange / NCBCB1P15-3	P15-3	COM
JS2A-8	22 AWG 300 V Brown / NCBCB1P16-1	MTA P16-1	TST102A
JS2A-9	22 AWG 300 V Red / NCBCB1P16-2	P16-2	COM
JS2B-8	22 AWG 300 V Orange / NCBCB1P16-3	P16-3	TST102B
JS2B-9	22 AWG 300 V Yellow / NCBCB1P16-4	P16-4	COM
JS2C-8	22 AWG 300 V Green / NCBCB1P16-5	P16-5	TST102C
JS2C-9	22 AWG 300 V Blue / NCBCB1P16-6	P16-6	COM
JS2N-8	22 AWG 300 V Violet / NCBCB1P16-7	P16-7	TST102N
JS2N-9	22 AWG 300 V Grey / NCBCB1P16-8	P16-8	COM
CB103PNC		MTA P17-1	CB103PNC
COM		P17-2	COM
CB103PNO		P17-3	CB103PNO
CB103TNC		P17-4	CB103TNC
COM		P17-5	COM
CB103TNO		P17-6	CB103TNO
+24V		P17-7	+24V
CB103ST		P17-8	CB103ST
CB203PNC		MTA P18-1	CB203PNC
COM		P18-2	COM
CB203PNO		P18-3	CB203PNO
CB203TNC		P18-4	CB203TNC
COM		P18-5	COM
CB203TNO		P18-6	CB203TNO
+24V		P18-7	+24V
CB203ST		P18-8	CB203ST
SPD103NC		MTA P19-1	SPD103NC
SPD103NO		P19-2	SPD103NO
COM		P19-3	COM

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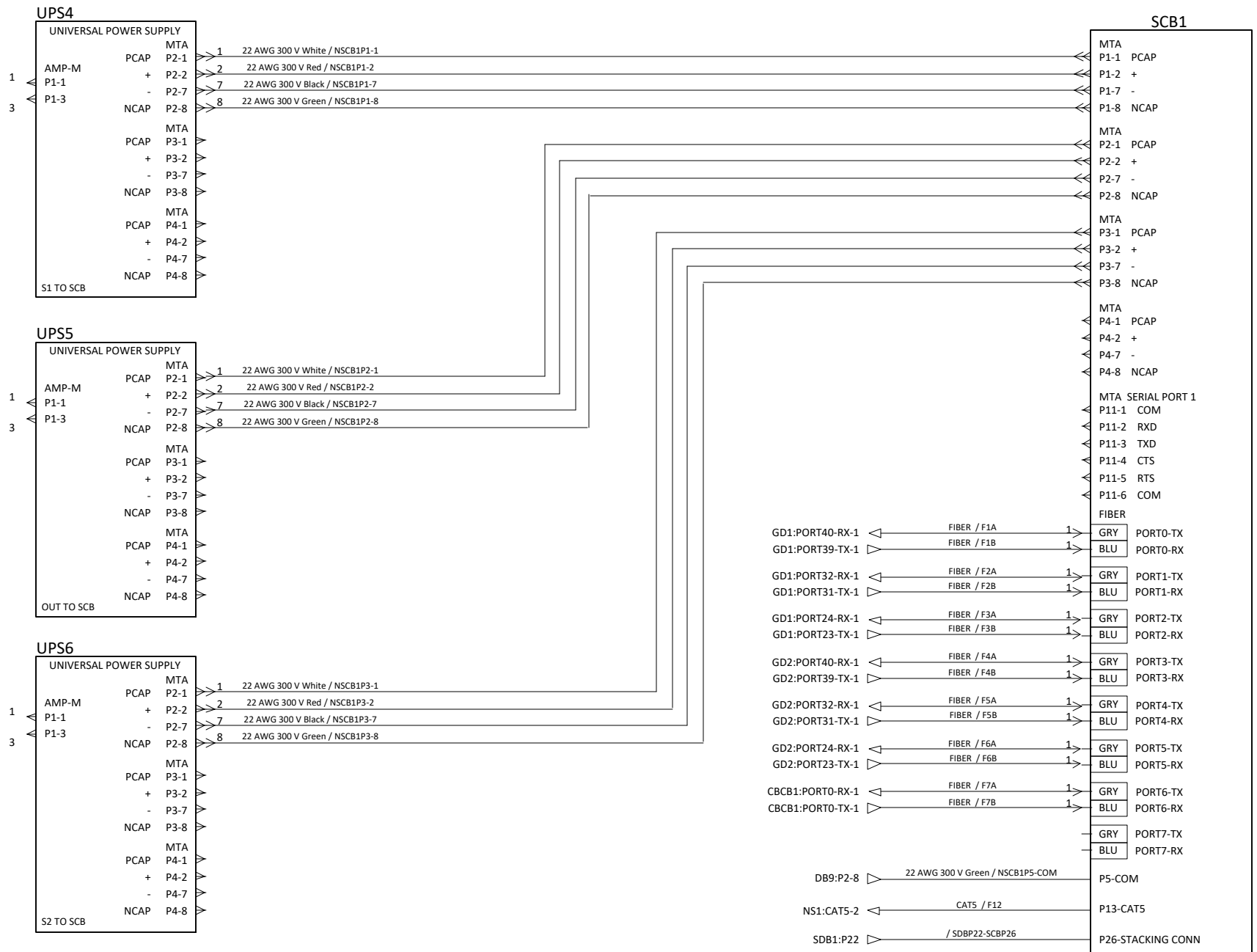
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CB301-11	22 AWG 300 V Red / NCBCB1P21-2	P21-2	COM
CB301-14	22 AWG 300 V Orange / NCBCB1P21-3	P21-3	CB301PNO
CB301-96	22 AWG 300 V Yellow / NCBCB1P21-4	P21-4	CB301TNC
CB301-95	22 AWG 300 V Green / NCBCB1P21-5	P21-5	COM
CB301-98	22 AWG 300 V Blue / NCBCB1P21-6	P21-6	CB301TNO
CB302-12	22 AWG 300 V Brown / NCBCB1P22-1	MTA P22-1	CB302PNC
CB302-11	22 AWG 300 V Red / NCBCB1P22-2	P22-2	COM
CB302-14	22 AWG 300 V Orange / NCBCB1P22-3	P22-3	CB302PNO
CB302-96	22 AWG 300 V Yellow / NCBCB1P22-4	P22-4	CB302TNC
CB302-95	22 AWG 300 V Green / NCBCB1P22-5	P22-5	COM
CB302-98	22 AWG 300 V Blue / NCBCB1P22-6	P22-6	CB302TNO
CBSP1PNC		MTA P23-1	CBSP1PNC
COM		P23-2	COM
CBSP1PNO		P23-3	CBSP1PNO
CBSP1TNC		P23-4	CBSP1TNC
COM		P23-5	COM
CBSP1TNO		P23-6	CBSP1TNO
+24V		P23-7	+24V
CBSP1ST		P23-8	CBSP1ST
CBSP2PNC		MTA P24-1	CBSP2PNC
COM		P24-2	COM
CBSP2PNO		P24-3	CBSP2PNO
CBSP2TNC		P24-4	CBSP2TNC
COM		P24-5	COM
CBSP2TNO		P24-6	CBSP2TNO
+24V		P24-7	+24V
CBSP2ST		P24-8	CBSP2ST
+12V		MTA P48-1	+12V
COM		P48-2	COM
FSS1-NO		MTA P49-1	FSS1-NO
COM		P49-2	COM
FSS1-NC		P49-3	FSS1-NC
COM		P49-4	COM
+12V		MTA P50-1	+12V
COM		P50-2	COM
FSS2-NO		MTA P51-1	FSS2-NO
COM		P51-2	COM
FSS2-NC		P51-3	FSS2-NC
COM		P51-4	COM
+12V		MTA P52-1	+12V
COM		P52-2	COM
FSS3-NO		MTA P53-1	FSS3-NO
COM		P53-2	COM
FSS3-NC		P53-3	FSS3-NC
COM		P53-4	COM

CBCB1D

P54-1	+12V	MTA
P54-2	COM	
FSS4NO		MTA
COM		P55-1
COM		P55-2
FSS4NC		P55-3
COM		P55-4
TSTAMB1		MTA
COM		P56-1
COM		P56-2
TSTAMB2		P56-3
COM		P56-4
CABSW1NC		MTA
COM		P57-1
CABSW1NO		P57-2
CABSW2NC		P57-3
COM		P57-4
CABSW2NO		P57-5
CABSW3NC		P57-6
COM		P57-7
CABSW3NO		P57-8
CABSW4NC		P57-9
COM		P57-10
CABSW4NO		P57-11
SPARE1NC		MTA
COM		P58-1
SPARE1NO		P58-2
SPARE2NC		P58-3
COM		P58-4
SPARE2NO		P58-5
SPARE3NC		MTA
COM		P59-1
SPARE3NO		P59-2
SPARE4NC		P59-3
COM		P59-4
SPARE4NO		P59-5
PORT0-TX		MTA
PORT0-RX		P59-6
PORT1-TX		FIBER
PORT1-RX		GRY
PORT2-TX		BLU
PORT2-RX		GRY
		BLU



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SEB1

SYSTEM EXPANSION BOARD

MTA

- P1-1 IS3AP
- P1-2 IS3AN
- P1-3 IS3BP
- P1-4 IS3BN
- P1-5 IS3CP
- P1-6 IS3CN
- P1-7 IS3NP
- P1-8 IS3NN
- P1-9 IS3GP
- P1-10 IS3GN

BLOCKMASTER

- P2-1 VS3A
- P2-2 VS3B
- P2-3 VS3C
- P2-4 VS3N

BLOCKMASTER

- P10-1 VS1
- P10-2 VS2
- P10-3 VS3
- P10-4 VSOUT

FIBER

- GD1:PORT16-RX-1 FIBER / F8A 1 → GRY PORT12-TX
- GD1:PORT15-TX-1 FIBER / F8B 1 → BLU PORT12-RX
- GD2:PORT16-RX-1 FIBER / F9A 1 → GRY PORT13-TX
- GD2:PORT15-TX-1 FIBER / F9B 1 → BLU PORT13-RX
- GRY PORT14-TX
- BLU PORT14-RX
- GRY PORT15-TX
- BLU PORT15-RX

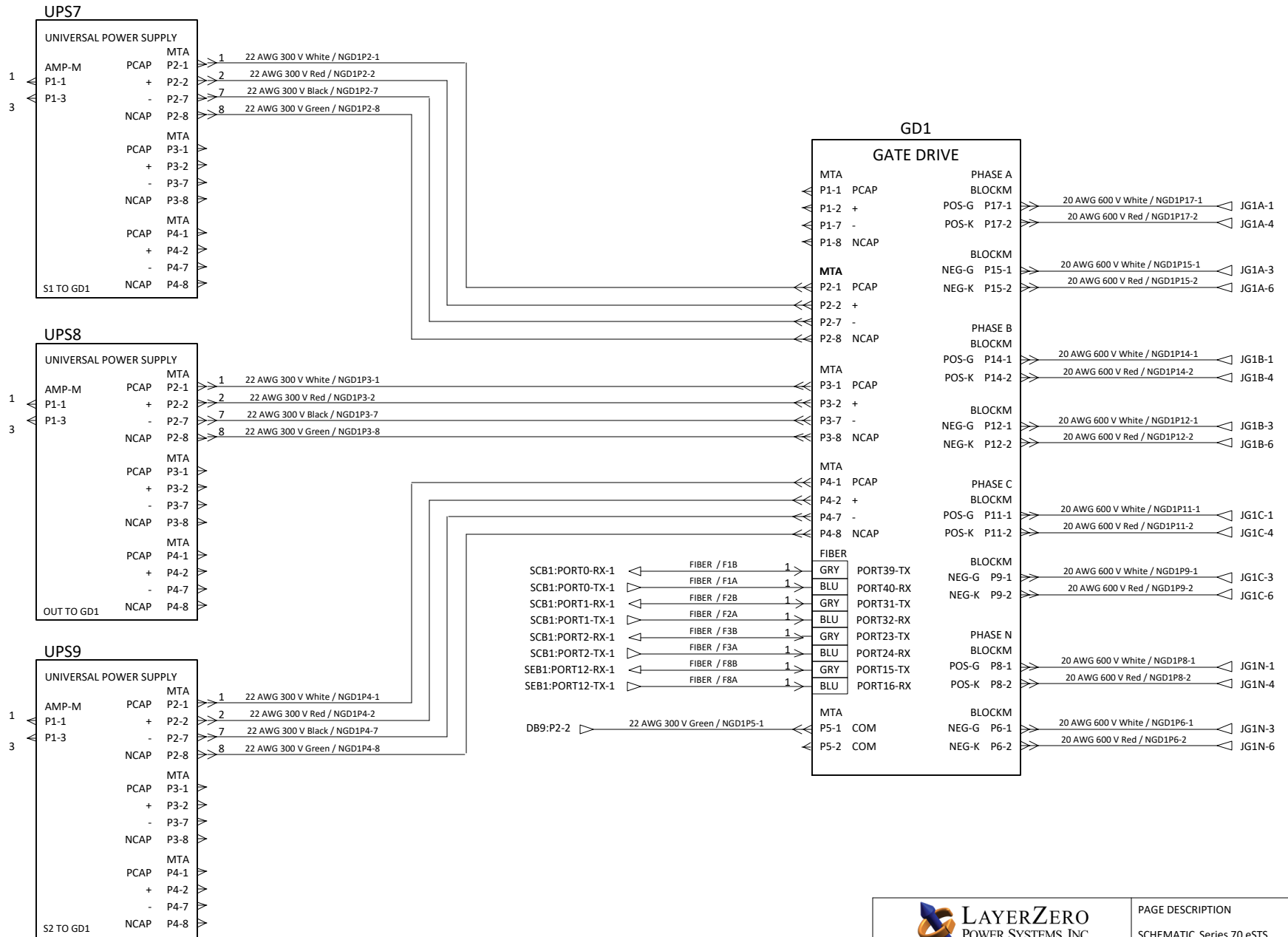
SDB1:P23 ← / SDB1P23-SEB1P8 P8-STACKING CONN

NEUT SCR STATUS



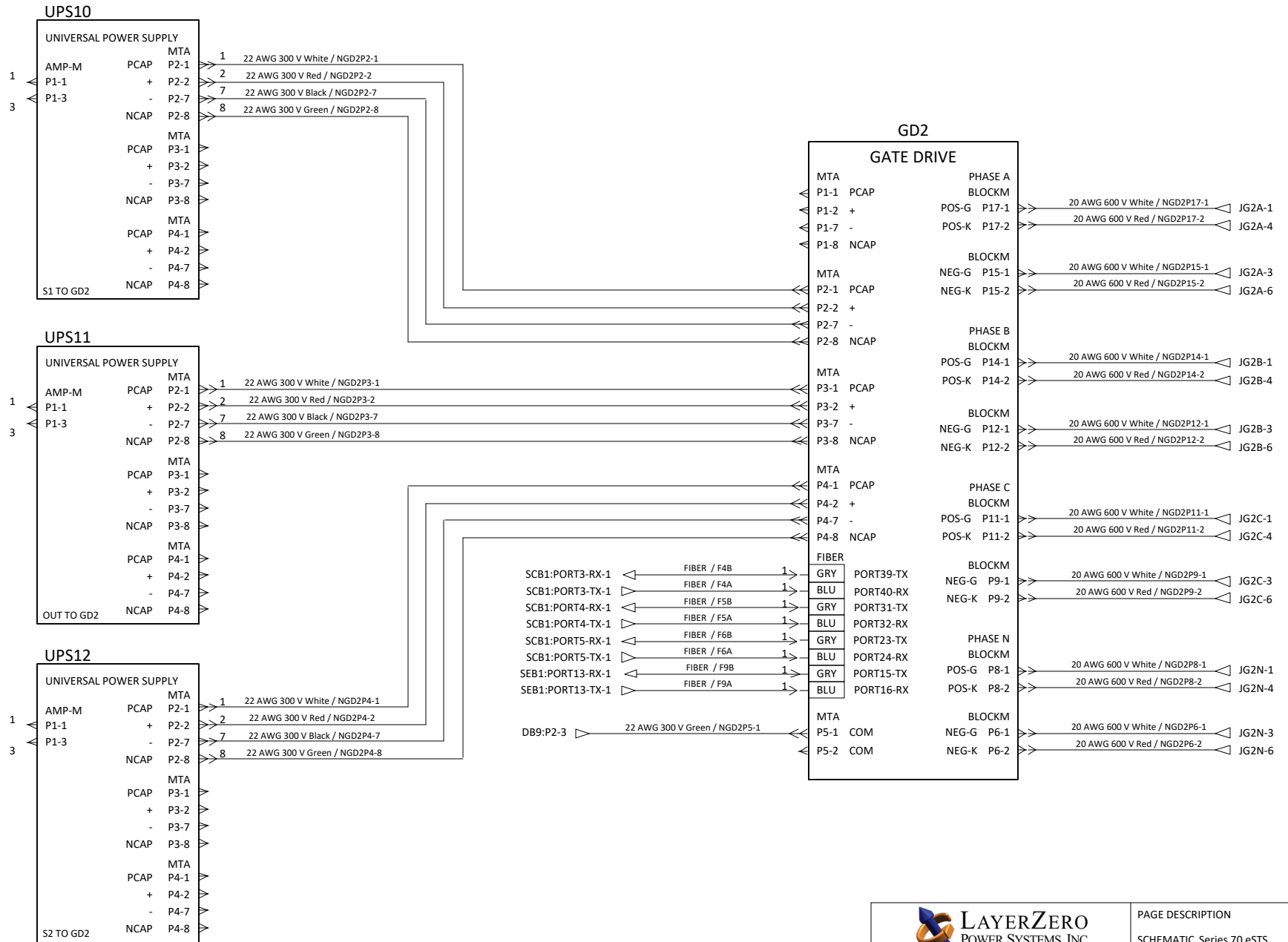
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