


**NOTES:**


- \* SHIELD GROUNDED AT OTHER END OF CABLE.
- 1. FOR DATA CONNECTIONS, SEE COMMUNICATIONS DIAGRAM.

 - MAINTAINED TOGGLE SWITCH

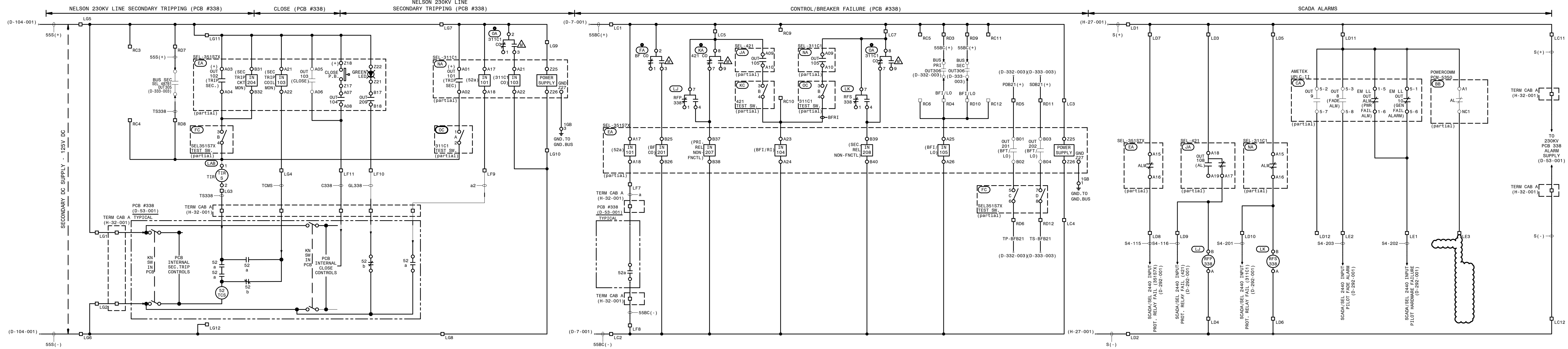
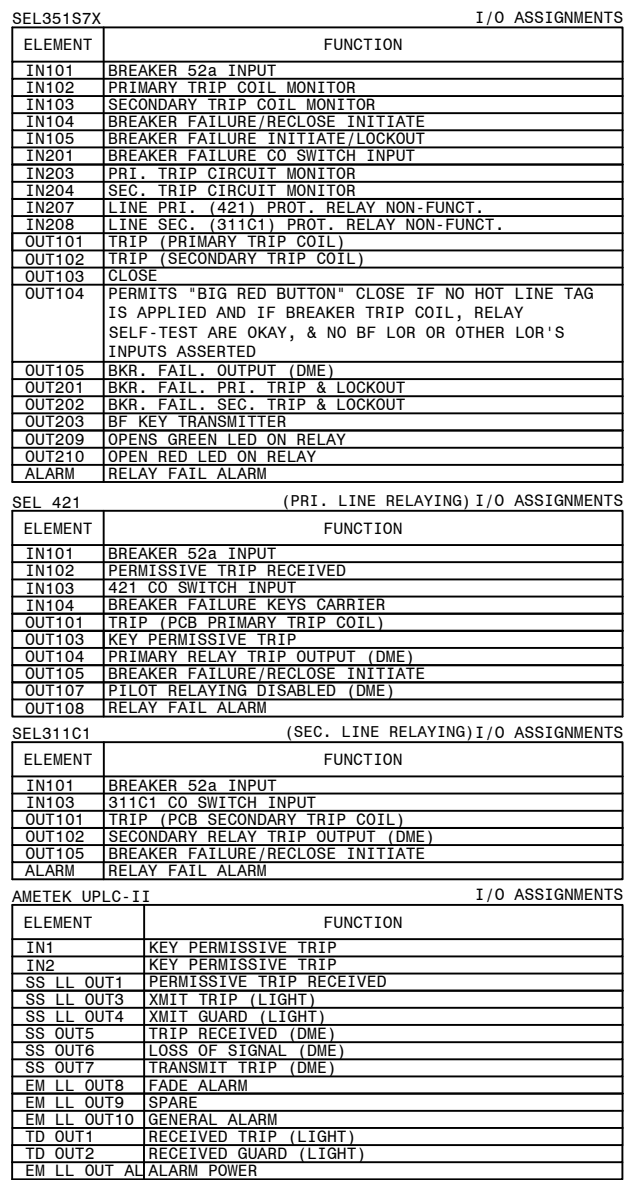
REFERENCES:	
01-173-031-001	PANEL #55 FRONT VIEW & NAMEPLATES
01-173-031-003	PANEL #55 DC ELEMENTARY DIAGRAM
01-173-031-004	PANEL #55 AC ELEMENTARY DIAGRAM
01-173-031-005	PANEL #55 LOGIC DIAGRAM (35157X)
01-173-031-006	PANEL #55 LOGIC DIAGRAM (421, 311C1)





**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

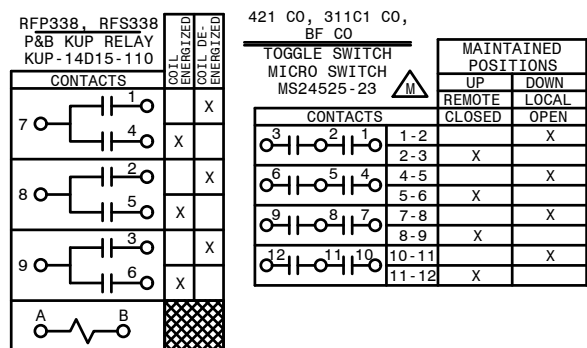
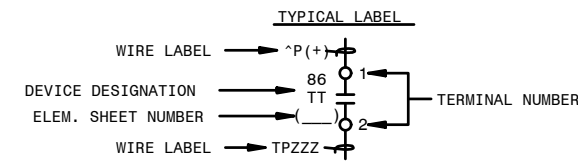
TRANS. LINE DIRECTIONAL COMPARISON UNBLOCKING/STEP DISTANCE- (STRAIGHT BUS)

	FACILITY NAME: MCGRAU FORD TS				
	TITLE: PANEL #55, WIRING DIAGRAM - NELSON 230KV LINE (STRAIGHT BUS), SEL421 (PRI-DCUB), SEL311C1 (SEC), SEL351S7X (BF/RECL) RELAYING				
	CHECKED: RPE	TYPE: WD	FACILITY #:	NUMBER: 31	SHEET: REV
	APPROVED: 1943901	SCALE: N.T.S.	01 - 173	D-	- 002 - 0
	DATE: 05/31/2023	BOM:	ASC FACS: ALT DWG NUM:DCUB		






-  - SLIDING LINK TERMINALS  
OR PHEONIX PLUG
-  - BARRIER BLOCK TERMINAL
-  - LED INDICATING LIGHT
-  - SWITCH SHOWN IN OFF POS

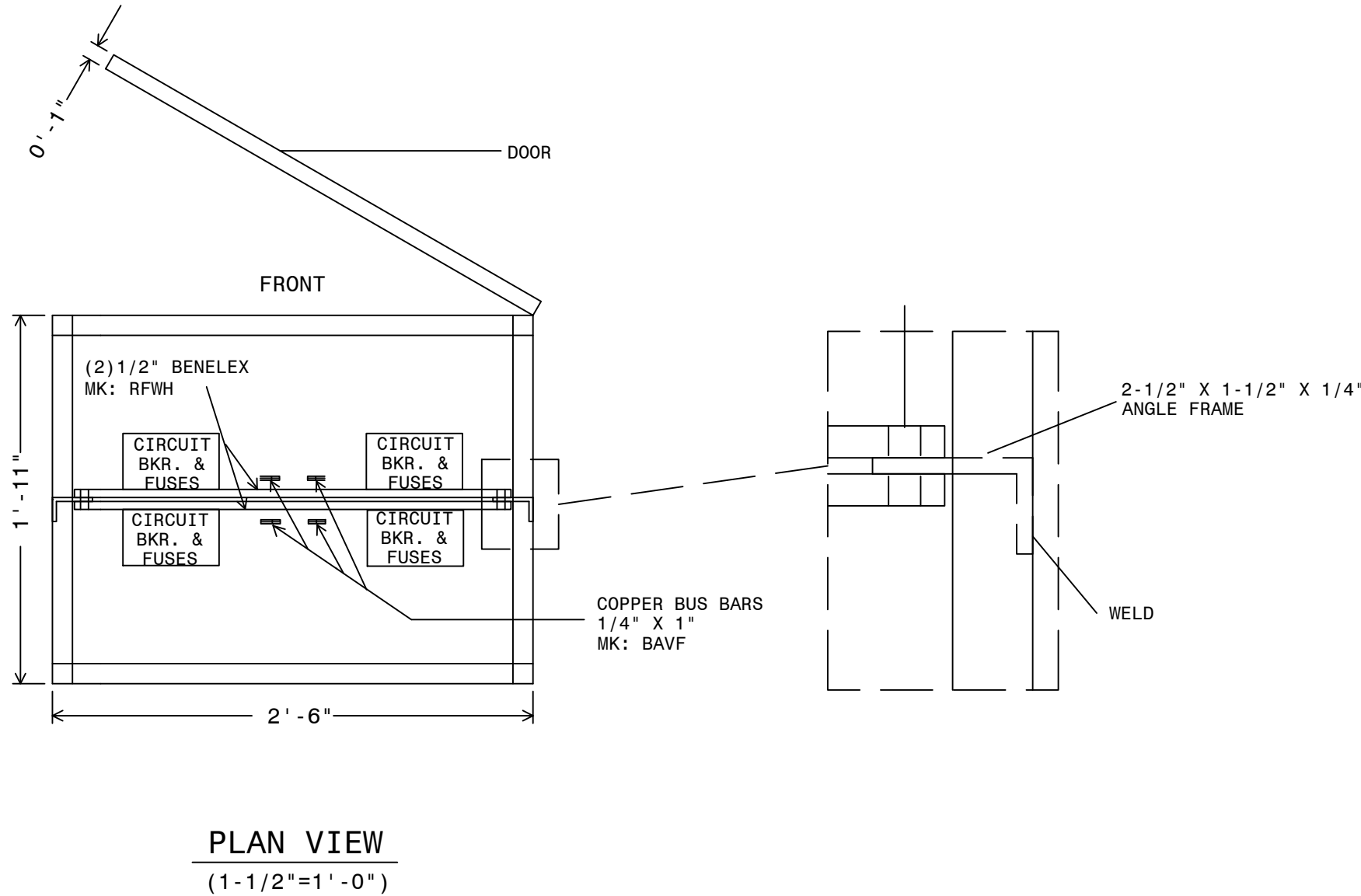
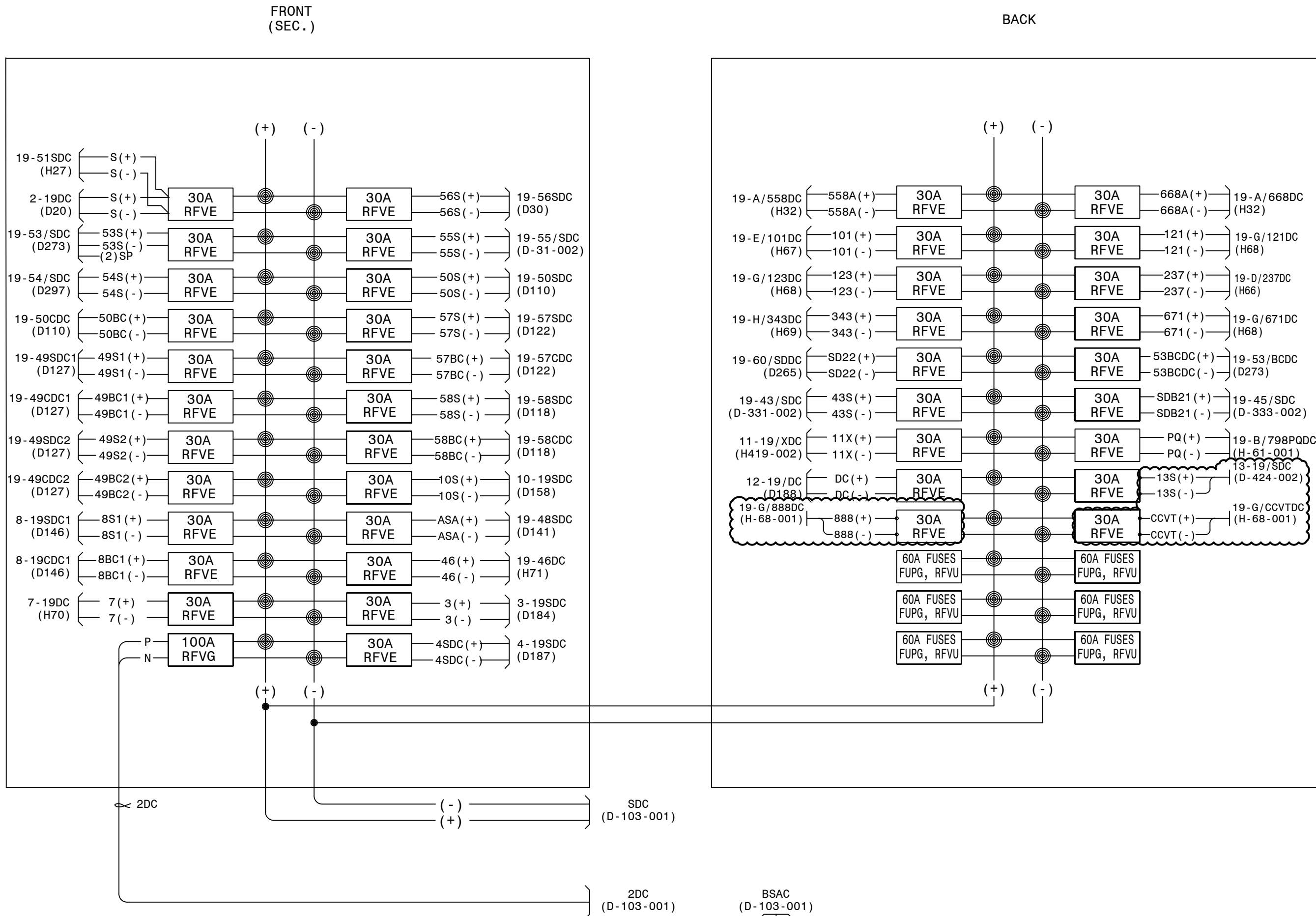


**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

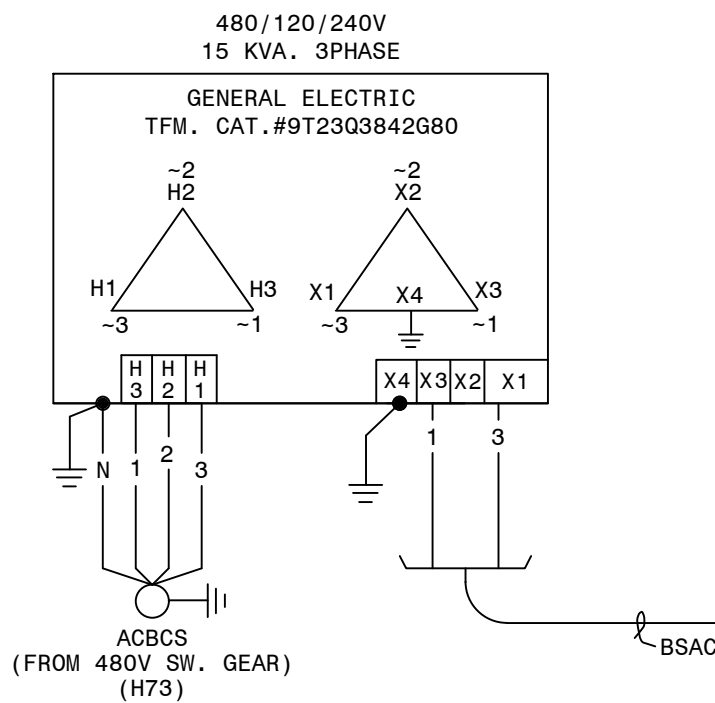
01-173-D-31-001	PANEL #55 FRONT VIEW & NAMEPLATES
01-173-D-31-002	PANEL #55 WIRING DIAGRAM
01-173-D-31-004	PANEL #55 AC ELEMENTARY DIAGRAM
01-173-D-31-005	PANEL #55 LOGIC DIAGRAM (351S7X)
01-173-D-31-006	PANEL #55 LOGIC DIAGRAM (421, 311C1)

	FACILITY NAME: MCGRAU FORD TS									
	TITLE: PANEL #55, DC ELEMENTARY - NELSON 230KV LINE, SEL421 (PRI DCUB), SEL311C1 (SEC), SEL351SX (BF/RECL) RELAYING									
	DRAWN: BPE		TYPE: 52		FACILITY #:		NUMBER: 31		SHEET: REV	
	CHECKED: BPE		SCALE: N.T.S.		01-173		D-		- 003 - 00	
	APPROVED: 1943901		BOM:							
DATE: 05/31/2023		ASC FACs:				ALT DWG NUM: DCUB				

QTY.	CMS UNIT	MATL. MK.	DESCRIPTION	REMARKS	NON STOCK
2	BAVF	BAVF	BAR-CU 1IN X 1IN X 12FT		
41	RFVE-D	RFVE	CIRCUIT BREAKER, AMB COMP, 2P, 30A		
	RFVG	RFVG	CIRCUIT BREAKER, AMB COMP, 2P, 100A		
2	RFWH	RFWH	PANEL-BENELEX 402 28IN X 41IN X 1IN		
1	RGRG-D	RGRG	SWBD REAR DOOR, FOR 30 X 90 X 21IN PAN.	0-31-D1	YES
			SWITCHBOARD ANGLE FRAME 30 X 90 X 21IN	0-31-D1	



WIRING CONNECTION (JUMPER TAPS):		
PRIMARY:	% TAPS	VOLTS
H1-H2-H3	1	502
	2	493
	3	480
	4	467
	5	458
	6	444
	7	431
SECONDARY:		
VOLTS		CONNECT LOAD TO:
120	X1-X4	
240	X1-X4	
120/240	X1-X3-X4	
	X4 IS A NEUTRAL	

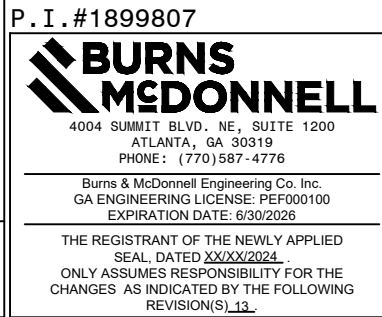



AUTOCAD ELECTRICAL  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES:  
01-173-D7-001  
01-173-D8-001  
01-173-D8-002  
01-173-D103-001  
01-173-D104-002  
01-173-D13

PANEL #1 WIRING DIAGRAM PRIMARY D.C. PANEL  
PRIMARY DC SUPPLY AND BATTERY CHARGER ELEMENTARY  
PRIMARY DC - MOBILE BATTERY TRAILER CONNECTIONS  
SECONDARY DC SUPPLY AND BATTERY CHARGER ELEMENTARY  
SECONDARY DC - MOBILE BATTERY TRAILER CONNECTIONS  
S.S. & THROWOVER CAB #2 WIRG & CONN. DIAGRAM

CTLSTD:175.DGN (DCP-B-0-WD)



 <b>GEORGIA POWER</b> <small>SOUTHERN COMPANY</small>	FACILITY NAME:					MCGRAU FORD TS			
	TITLE: PANEL #19 WIRING DIAGRAM SECONDARY D.C. PANEL								
	DRAWN:	JLC/CP	TYPE:	WD	FACILITY #:	<b>D-</b>	NUMBER:	<b>104</b>	REV:
	CHECKED:	AJW/TEB	SCALE:	AS SHOWN	01-173				
	APPROVED:		BOM:						
DATE:	11/22/2004	ASC FACS:				ALT DWG NUM:		- 001 - 12	

06 BAK TM	P1: 1402601	07 CSM DML	10/10/2015 P1: 1451605	08 BAS JWH USPP	3/27/2020 P1: 1616363	09 JCM JCM	2/5/2021 P1: 1855101	10 BPE BPE	05/31/2023 P1: 1930501	11 BPE BPE	08/01/2023 P1: 1930501	12 RJH KDB USPP	4/1/2024 P1: 2014906	13 EG SW AA	8/20/2024 P1: 1899807
REMOVE CABLE 19-53SDC. ADD CABLE 19-53/SDC, 19-53/BCDC FOR PANEL #53 REPLACEMENT.		FIELD CHANGES SHOWN FOR RECORD ONLY.		FCF#10 (CC): UPDATED STATUS POINT NAMES.		REMOVE CABLE 19-54SDC & ADD CABLE 19-54/SDC, FOR PANEL #54 REPLACEMENT.		UPDATE CIRCUITS FOR NEW PANEL #55 NELSON LINE. ADD CIRCUITS FOR NEW PANELS #43 & #45 AS SHOWN. 19-51SDC, 19-A/558DC, 19-A/668DC CORRECT CABLE NAMES, FOR RECORD ONLY.DWG UPDATED FOR NEW STANDARD DC BATTERY SYSTEM UPGRADE.		INSTALL 30A DC BREAKER FOR SOURCE TO POWER QUALITY METER ON PCB 798 SVS LINE AS SHOWN.		INSTALL THREE 30A DC BREAKER FOR SOURCE TO POWER NEW TRANSFER TRIP PANEL #11, PANEL #12, AND SPARE. ADD CABLES 11-19/XDC AND 12-19/DC.		INSTALL TWO 30A CIRCUIT BREAKERS AND CABLES 13-19/SDC, 19-G/888DC, AND 19-G/COVTD.	







(TRANS. BUS PROTECTION/GE-B90/LOCKOUT/8 CURRENT CKT./STRAIGHT BUS)

**P. I. #1899807**

**BURNS  
MCDONNELL**

4004 SUMMIT BLVD., NE, SUITE 1200  
ATLANTA, GA 30319  
PHONE: (770)587-4776

Burns & McDonnell Engineering Co. Inc.  
GA ENGINEERING LICENSE: PEF000100  
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED  
SEAL, DATE: 10/06/2024.

ONLY ASSUMES RESPONSIBILITY FOR THE  
CHANGES AS INDICATED BY THE FOLLOWING  
REVISION(S) 03.

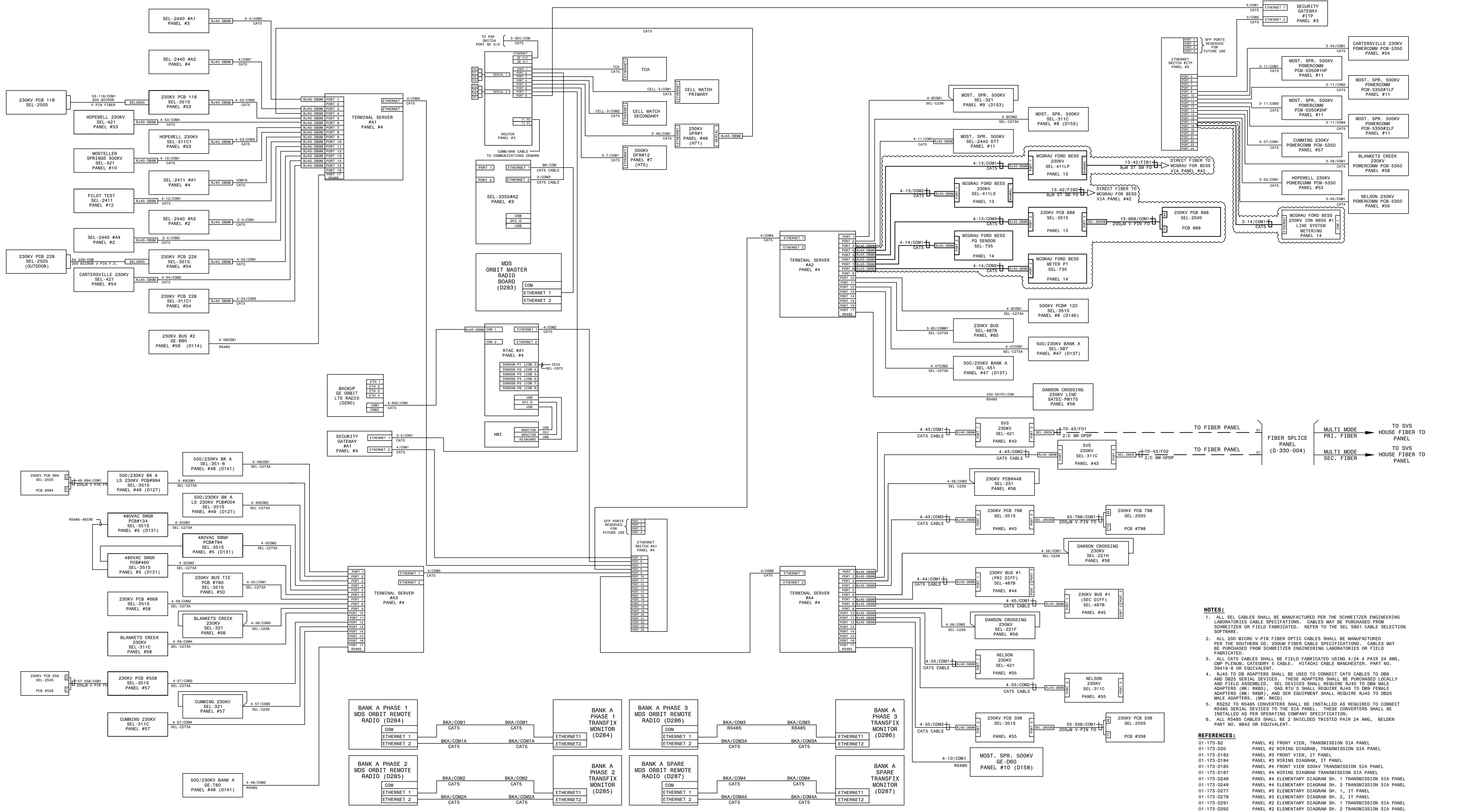




06	CSM	DML	3/5/2015	PI1451605	07	CSM	DML	4/22/2015	PI1451605	08	CSM	DML	10/7/2015	PI1451605	09	CSM	DML	1/10/2016	PI1451736	10	MW	JR	AM	11/14/2016	PI1641594	11	RC	JWH	USPOWER	7/11/2019	PI1616363	12	BAS	JWH	USPOWER	3/27/2020	PI1616363	13	TK	DP	DP	07/29/2024	PI:
REMOVE CABLE 2-35AL76 AND SEL-2032#1. RELOCATE SEL-3610#A1 TO SIA PANEL #4. RELOCATE CISCO FIREWALL IN PANEL AS SHOWN. INSTALL SEL-3355 LOGGER AS SHOWN.					REMOVE SEL-2020. REVISE PANEL WIRING AS SHOWN.					FIELD CHANGES SHOWN FOR RECORD ONLY.					FIELD CHANGES SHOWN FOR RECORD ONLY.					INSTALLED NEW SEL-3355. INSTALLED CABLE RDC1.					CONVERT SEL-3355 LOGGER INTO SEL-3555#1TP (RTAC). ADD IRIG/SERIAL PORTS. REMOVE CISCO FIREWALL AND (1)RGW. INSTALL (2)RGWT, (1)RLBP AND (1)RLCU. UPDATED DRAWING REFERENCES AND TITLE FOR RECORD ONLY.					FC#10 (CC): SHOW EQUIPMENT AS INSTALLED AND PANEL PLATES AS IS.					REMOVED SEL-3555 AND CORRESPONDING CONNECTIONS PER AS-BUILT MARKUPS.								







**NOTES:**

1. ALL SEL CABLES SHALL BE MANUFACTURED PER THE SCHWEITZER ENGINEERING LABORATORIES CABLE SPECIFICATIONS. CABLES MAY BE PURCHASED FROM SCHWEITZER OR FIELD FABRICATED. REFER TO THE SEL 5801 CABLE SELECTION SOFTWARE.
2. ALL 200 MICRO V-PIN FIBER OPTIC CABLES SHALL BE MANUFACTURED PER THE SOUTHERN CO. 200UM FIBER CABLE SPECIFICATIONS. CABLES MAY BE PURCHASED FROM SCHWEITZER ENGINEERING LABORATORIES OR FIELD FABRICATED.
3. ALL CAT5 CABLES SHALL BE FIELD FABRICATED USING 4/24 4 PAIR 24 AWG, CIMP FLENUM, CATEGORY 5 CABLE. HITACHI CABLE MANCHESTER. PART NO. 39419-B OR EQUIVALENT.
4. RJ45 TO DB ADAPTERS SHALL BE USED TO CONNECT CAT5 CABLES TO DB9 AND DB25 SERIAL DEVICES. THESE ADAPTERS SHALL BE PURCHASED LOCALLY AND FIELD ASSEMBLED. SEL DEVICES SHALL REQUIRE RJ45 TO DB9 MALE ADAPTERS (MK: RKBS). DB9 RTU'S SHALL REQUIRE RJ45 TO DB9 FEMALE ADAPTERS (MK: RKBR). AND SER EQUIPMENT SHALL REQUIRE RJ45 TO DB25 MALE ADAPTERS (MK: RKCD).
5. RS232 TO RS485 CONVERTERS SHALL BE INSTALLED AS REQUIRED TO CONNECT RS485 SERIAL DEVICES TO THE SIA PANEL. THESE CONVERTERS SHALL BE INSTALLED AS PER OPERATING COMPANY SPECIFICATION.
6. ALL RS485 CABLES SHALL BE 2 SHIELDED TWISTED PAIR 24 AWG, BELDEN PART NO. 9842 OR EQUIVALENT.

**REFERENCES:**

NO.	DESCRIPTION
01-173-02	PANEL #2 FRONT VIEW, TRANSMISSION SIA PANEL
01-173-020	PANEL #2 WIRING DIAGRAM, TRANSMISSION SIA PANEL
01-173-0182	PANEL #3 FRONT VIEW, IT PANEL
01-173-0184	PANEL #3 WIRING DIAGRAM, IT PANEL
01-173-0185	PANEL #4 FRONT VIEW 500KV TRANSMISSION SIA PANEL
01-173-0187	PANEL #4 WIRING DIAGRAM TRANSMISSION SIA PANEL
01-173-0248	PANEL #4 ELEMENTARY DIAGRAM SH. 1 TRANSMISSION SIA PANEL
01-173-0249	PANEL #4 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL
01-173-0277	PANEL ELEMENTARY DIAGRAM SH. 1, IT PANEL
01-173-0278	PANEL #3 ELEMENTARY DIAGRAM SH. 2, IT PANEL
01-173-0291	PANEL #2 ELEMENTARY DIAGRAM SH. 1 TRANSMISSION SIA PANEL
01-173-0292	PANEL #2 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL

P.I.#1899807

**BURNS & McDONNELL**

4004 SUMMIT BLVD., SUITE 1200  
ATLANTA, GA 30319  
PHONE: (770) 987-4778

Burns & McDonnell Engineering Co. Inc.  
GA ENGINEERING LICENSE #1010010  
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OR THE NEWLY APPLIED  
SEAL DATED 2026/06/01  
ONLY ASSUMES RESPONSIBILITY FOR THE  
CHANGES AS INDICATED BY THE FOLLOWING  
REVISIONS/REV.

**AUTOCAD ELECTRICAL**

THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

<b>GEORGIA POWER</b> A SOUTHERN COMPANY		FACILITY NAME: <b>MCGR AU FORD TS</b>	
TITLE: SIA COMMUNICATION CONNECTION DIAGRAM		FACILITY #: <b>01-173</b>	
DRAWN: AJW	CHECKED: AJW	TYPE: SIA	NUMBER: <b>D-186</b>
APPROVED: AJW	SCALE: N.T.S.	FACILITY #:	SHEET: <b>001 - 14</b>
DATE: 7/31/2006	SOB:	ASC FACS:	REV:

										ALL CHANGES AS INDICATED BY THE FOLLOWING REVISIONS:																																					
08	BAH	JWH	USPP	9/21/2021	P1:FC183304	09	BPE	BPE	BPE	05/31/2023	P1:1930501	10	BPE	BPE	BPE	08/01/2023	P1:1930501	11	BPE	BPE	BPE	10/12/2023	P1:1930501	12	BPE	BPE	BPE	2/28/2024	P1:1943901	13	RJH	RCL	USPP	4/1/2024	P1:2014906	14	TK	DP	DP	07/26/2024	P1:	15	EG	SW	AA	9/23/2024	P1:1899807
MOVED GE RELAY COMMUNICATIONS FROM ETHERNET TO SERIAL, SHOWN FOR RECORD ONLY.						UPDATE CONNECTIONS FOR NEW PANELS #44 & #45 BUS #1 DIFFERENTIALS AND #55 NELSON LINE. ADD CONNECTIONS FOR NEW PANEL #43 SVS LINE. AS SHOWN. PANEL #4, SWITCH #A2 REMOVED, FOR RECORD ONLY.					ADD SEL-2505 ANNUNCIATORS TO PCB 994 AND PCB 558 AS SHOWN.					UPDATED SVC TEXT TO SVS AS SHOWN FOR ACCURACY IN DESCRIPTION OF NEW SVS SUBSTATION LABEL.					UPDATE DRAWING PER FIELD CHANGES AS SHOW.					ADD PCM-5350 INPUTS FROM PANELS 11, 53, 57, AND 58.					REMOVED SEL-3555 COMMUNICATION CONNECTION PER AS-BUILT MARKUPS.					ADD RELAYS FOR PANEL 13 AND 14.											



05|CSM|DML|USP|12/2/2013|PI: 1451605  
REPLACE SEL-3351 WITH A SEL-3354. CONTACT EDUARDO SANTIAGO FOR NEW SEL-3354. RELOCATED TERMINAL BLOCKS FOR RECORD ONLY.

06|CSM|DML|USP|3/5/2015|PI: 1451605  
REMOVE SEL-2032#1, SEL-2032#2, HMT, KEYBOARD/MOUSE, AND SEL-3354. RELOCATE SEL-3610#A1 FROM PANEL #3 AS SHOWN. INSTALL SEL-3610#A2, SEL-3610#A3, SEL-3610#A4, ETHERNET SWITCH #A1, SEL-2440#A2, SEL-3355#A1, AND SEL-3355#A2 AS SHOWN.

07|CSM|DML|USP|10/4/2015|PI: 1451736  
REMOVE GABRIELTCOM ETHERNET SWITCHES. INSTALL SEL-2730#A1, SEL-2730#A2, AND SEL-3390S8 EXPANSION CARDS AS SHOWN. FIELD CHANGES SHOWN FOR RECORD ONLY.

08|CSM|DML|USP|1/10/2016|PI: 1451736  
REMOVE CABLE 4-10/SAL2.

10|RC|JWH|USPOWER|7/11/2019|PI: 1616363  
CONVERT SEL-3355#A1 TO SEL-3355#A1 (RTAC). REMOVE RKDD (SEL-3355#A2) AND (1)RGMU. INSTALL (1)RGWT, (1)RGWV AND (1)RLCU. UPDATED DRAWING REFERENCE D184 FOR RECORD ONLY.

11|BAS|JWH|USPP|3/27/2020|PI: 1616363  
FC#10 (CC): ADDED CABLE 4-56SC12.

12|RJH|KDB|USPP|4/1/2024|PI: 2014906  
ADD CABLES 3-4-11/SDC AND 4-11/SAL1. REMOVE CABLES 4-11/SC AND 4-11SAL178.

GEORGIA  
SOUTHERN POWER

CHECKED: AJW  
APPROVED: AJW  
DATE: 7/31/2006

TYPE: WD  
SCALE: N.T.S.

FACILITY #: 01-173

NUMBER: 187

SHEET: 12

FACILITY NAME:  
MCGRAU FORD TS

TITLE: PANEL #4 WIRING DIAGRAM TRANSMISSION SIA PANEL

DATE: 7/31/2006

ASC FACS:

THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

187

001-12

ALT DWG NUM:

LA

1	LA-1	4-10SDC (D184)
2	LA-2	4-10SDC (D184)
3	LA-3	4-10SDC (D184)
4	LA-4	4-10SDC (D184)
5	LA-5	4-10SDC (D184)
6	LA-6	4-10SDC (D184)
7	LA-7	4-10SDC (D184)
8	LA-8	4-10SDC (D184)
9	LA-9	4-10SDC (D184)
10	LA-10	4-10SDC (D184)
11	LA-11	4-10SDC (D184)
12	LA-12	4-10SDC (D184)

LB

1	LB-1	4-10SDC (D184)
2	LB-2	4-10SDC (D184)
3	LB-3	4-10SDC (D184)
4	LB-4	4-10SDC (D184)
5	LB-5	4-10SDC (D184)
6	LB-6	4-10SDC (D184)
7	LB-7	4-10SDC (D184)
8	LB-8	4-10SDC (D184)
9	LB-9	4-10SDC (D184)
10	LB-10	4-10SDC (D184)
11	LB-11	4-10SDC (D184)
12	LB-12	4-10SDC (D184)

LC

1	LC-1	4-10SDC (D184)
2	LC-2	4-10SDC (D184)
3	LC-3	4-10SDC (D184)
4	LC-4	4-10SDC (D184)
5	LC-5	4-10SDC (D184)
6	LC-6	4-10SDC (D184)
7	LC-7	4-10SDC (D184)
8	LC-8	4-10SDC (D184)
9	LC-9	4-10SDC (D184)
10	LC-10	4-10SDC (D184)
11	LC-11	4-10SDC (D184)
12	LC-12	4-10SDC (D184)

LD

1	LD-1	4-10SDC (D184)
2	LD-2	4-10SDC (D184)
3	LD-3	4-10SDC (D184)
4	LD-4	4-10SDC (D184)
5	LD-5	4-10SDC (D184)
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8	LD-8	4-10SDC (D184)
9	LD-9	4-10SDC (D184)
10	LD-10	4-10SDC (D184)
11	LD-11	4-10SDC (D184)
12	LD-12	4-10SDC (D184)

LE

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5	LE-5	4-10SDC (D184)
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9	LE-9	4-10SDC (D184)
10	LE-10	4-10SDC (D184)
11	LE-11	4-10SDC (D184)
12	LE-12	4-10SDC (D184)

1F

1	1F-1	4-10SDC (D184)
2	1F-2	4-10SDC (D184)
3	1F-3	4-10SDC (D184)
4	1F-4	4-10SDC (D184)
5	1F-5	4-10SDC (D184)
6	1F-6	4-10SDC (D184)
7	1F-7	4-10SDC (D184)
8	1F-8	4-10SDC (D184)
9	1F-9	4-10SDC (D184)
10	1F-10	4-10SDC (D184)
11	1F-11	4-10SDC (D184)
12	1F-12	4-10SDC (D184)

2F

1	2F-1	4-10SDC (D184)
2	2F-2	4-10SDC (D184)
3	2F-3	4-10SDC (D184)
4	2F-4	4-10SDC (D184)
5	2F-5	4-10SDC (D184)
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8	2F-8	4-10SDC (D184)
9	2F-9	4-10SDC (D184)
10	2F-10	4-10SDC (D184)
11	2F-11	4-10SDC (D184)
12	2F-12	4-10SDC (D184)

3F

1	3F-1	4-10SDC (D184)
2	3F-2	4-10SDC (D184)
3	3F-3	4-10SDC (D184)
4	3F-4	4-10SDC (D184)
5	3F-5	4-10SDC (D184)
6	3F-6	4-10SDC (D184)
7	3F-7	4-10SDC (D184)
8	3F-8	4-10SDC (D184)
9	3F-9	4-10SDC (D184)
10	3F-10	4-10SDC (D184)
11	3F-11	4-10SDC (D184)
12	3F-12	4-10SDC (D184)

4F

1	4F-1	4-10SDC (D184)
2	4F-2	4-10SDC (D184)
3	4F-3	4-10SDC (D184)
4	4F-4	4-10SDC (D184)
5	4F-5	4-10SDC (D184)
6	4F-6	4-10SDC (D184)
7	4F-7	4-10SDC (D184)
8	4F-8	4-10SDC (D184)
9	4F-9	4-10SDC (D184)
10	4F-10	4-10SDC (D184)
11	4F-11	4-10SDC (D184)
12	4F-12	4-10SDC (D184)

5F

1	5F-1	4-10SDC (D184)
2	5F-2	4-10SDC (D184)
3	5F-3	4-10SDC (D184)
4	5F-4	4-10SDC (D184)
5	5F-5	4-10SDC (D184)
6	5F-6	4-10SDC (D184)
7	5F-7	4-10SDC (D184)
8	5F-8	4-10SDC (D184)
9	5F-9	4-10SDC (D184)
10	5F-10	4-10SDC (D184)
11	5F-11	4-10SDC (D184)
12	5F-12	4-10SDC (D184)

6F

1	6F-1	4-10SDC (D184)
2	6F-2	4-10SDC (D184)
3	6F-3	4-10SDC (D184)
4	6F-4	4-10SDC (D184)
5	6F-5	4-10SDC (D184)
6	6F-6	4-10SDC (D184)
7	6F-7	4-10SDC (D184)
8	6F-8	4-10SDC (D184)
9	6F-9	4-10SDC (D184)
10	6F-10	4-10SDC (D184)
11	6F-11	4-10SDC (D184)
12	6F-12	4-10SDC (D184)

7F

1	7F-1	4-10SDC (D184)
2	7F-2	4-10SDC (D184)
3	7F-3	4-10SDC (D184)
4	7F-4	4-10SDC (D184)
5	7F-5	4-10SDC (D184)
6	7F-6	4-10SDC (D184)
7	7F-7	4-10SDC (D184)
8	7F-8	4-10SDC (D184)
9	7F-9	4-10SDC (D184)
10	7F-10	4-10SDC (D184)
11	7F-11	4-10SDC (D184)
12	7F-12	4-10SDC (D184)

1RU

1	1RU-1	4-10SDC (D184)
2	1RU-2	4-10SDC (D184)
3	1RU-3	4-10SDC (D184)
4	1RU-4	4-10SDC (D184)
5	1RU-5	4-10SDC (D184)
6	1RU-6	4-10SDC (D184)
7	1RU-7	4-10SDC (D184)
8	1RU-8	4-10SDC (D184)
9	1RU-9	4-10SDC (D184)
10	1RU-10	4-10SDC (D184)
11	1RU-11	4-10SDC (D184)
12	1RU-12	4-10SDC (D184)

2RU

1	2RU-1	4-10SDC (D184)
2	2RU-2	4-10SDC (D184)
3	2RU-3	4-10SDC (D184)
4	2RU-4	4-10SDC (D184)
5	2RU-5	4-10SDC (D184)
6	2RU-6	4-10SDC (D184)
7	2RU-7	4-10SDC (D184)
8	2RU-8	4-10SDC (D184)
9	2RU-9	4-10SDC (D184)
10	2RU-10	4-10SDC (D184)
11	2RU-11	4-10SDC (D184)
12	2RU-12	4-10SDC (D184)

3RU

1	3RU-1	4-10SDC (D184)
2	3RU-2	4-10SDC (D184)
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9	3RU-9	4-10SDC (D184)
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11	3RU-11	4-10SDC (D184)
12	3RU-12	4-10SDC (D184)

4RU

1	4RU-1	4-10SDC (D184)
2	4RU-2	4-10SDC (D184)
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4	4RU-4	4-10SDC (D184)
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6	4RU-6	4-10SDC (D184)
7	4RU-7	4-10SDC (D184)
8	4RU-8	4-10SDC (D184)
9	4RU-9	4-10SDC (D184)
10	4RU-10	4-10SDC (D184)
11	4RU-11	4-10SDC (D184)
12	4RU-12	4-10SDC (D184)

5RU

1	5RU-1	4-10SDC (D184)
2	5RU-2	4-10SDC (D184)
3	5RU-3	4-10SDC (D184)
4	5RU-4	4-10SDC (D184)
5	5RU-5	4-10SDC (D184)
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9	5RU-9	4-10SDC (D184)
10	5RU-10	4-10SDC (D184)
11	5RU-11	4-10SDC (D184)
12	5RU-12	4-10SDC (D184)

6RU

1	6RU-1	4-10SDC (D184)
2	6RU-2	4-10SDC (D184)
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9	6RU-9	4-10SDC (D184)
10	6RU-10	4-10SDC (D184)
11	6RU-11	4-10SDC (D184)
12	6RU-12	4-10SDC (D184)

7RU

1	7RU-1	4-10SDC (D184)
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9	7RU-9	4-10SDC (D184)
10	7RU-10	4-10SDC (D184)
11	7RU-11	4-10SDC (D184)
12	7RU-12	4-10SDC (D184)

8RU

1	8RU-1	4-10SDC (D184)
2	8RU-2	4-10SDC (D184)
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9	8RU-9	4-10SDC (D184)
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11	8RU-11	4-10SDC (D184)
12	8RU-12	4-10SDC (D184)

9RU

1	9RU-1	4-10SDC (D184)
2	9RU-2	4-10SDC (D184)
3	9RU-3	4-10SDC (D184)
4	9RU-4	4-10SDC (D184)
5	9RU-5	4-10SDC (D184)
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9	9RU-9	4-10SDC (D184)
10	9RU-10	4-10SDC (D184)
11	9RU-11	4-10SDC (D184)
12	9RU-12	4-10SDC (D184)

10RU

1	10RU-1	4-10SDC (D184)
2	10RU-2	4-10SDC (D184)
3	10RU-3	4-10SDC (D184)
4	10RU-4	4-10SDC (D184)
5	10RU-5	4-10SDC (D184)
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9	10RU-9	4-10SDC (D184)
10	10RU-10	4-10SDC (D184)
11	10RU-11	4-10SDC (D184)
12	10RU-12	4-10SDC (D184)

11RU

1	11RU-1	4-10SDC (D184)
2	11RU-2	4-10SDC (D184)
3	11RU-3	4-10SDC (D184)
4	11RU-4	4-10SDC (D184)
5	11RU-5	4-10SDC (D184)
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9	11RU-9	4-10SDC (D184)
10	11RU-10	4-10SDC (D184)
11	11RU-11	4-10SDC (D184)
12	11RU-12	4-10SDC (D184)

12RU

1	12RU-1	4-10SDC (D184)
2	12RU-2	4-10SDC (D184)
3	12RU-3	4-10SDC (D184)
4	12RU-4	4-10SDC (D184)
5	12RU-5	4-10SDC (D184)
6	12RU-6	4-10SDC (D184)
7	12RU-7	4-10SDC (D184)
8	12RU-8	4-10SDC (D184)
9	12RU-9	4-10SDC (D184)
10	12RU-10	4-10SDC (D184)
11	12RU-11	4-10SDC (D184)
12	12RU-12	4-10SDC (D184)

13RU

1	13RU-1	4-10SDC (D184)
2	13RU-2	4-10SDC (D184)
3	13RU-3	4-10SDC (D184)
4	13RU-4	4-10SDC (D184)
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9	13RU-9	4-10SDC (D184)
10	13RU-10	4-10SDC (D184)
11	13RU-11	4-10SDC (D184)
12	13RU-12	4-10SDC (D184)

REFERENCES:  
01-173-D184  
01-173-D185  
01-173-D186  
01-173-D248  
01-173-D249  
01-173-D



ITEM	QTY	DESCRIPTION
A2	1	PRIMARY CHASSIS 16A, 64E
B2	1	ADD-ON CHASSIS 16A,64E
C2	1	ADD-ON CHASSIS 16A,64E
A4	1	KEYBOARD RACK MOUNT
A6	1	MONITOR
A7	1	ALARM OUTPUT MODULE
A9	1	MODEM- INTERNAL TO A12
A10	0	GPS RECEIVER CLOCK
A11	0	TELCO SWITCH-SUPPLIED BY CUSTOMER
A12	1	COMPUTER
IL	1	INTERIOR LIGHT
CR	2	CONVENIENCE RECEPTACLE
LS	1	LIGHT SWITCH
D2	1	ADD-ON CHASSIS 16A,64E

FOR REFERENCE

NOTES:

- UTILITY SYSTEMS INC. MODEL 2002 DIGITAL FAULT RECORDER GPC P.O. #01965570000 IN 2005.
- ADD-ON CHASSIS D2 WAS A 0 ANALOG, 64 EVENT POINT CHASSIS AND HAS BEEN REPLACED WITH A 16 ANALOG, 64 EVENT POINT CHASSIS BY THE FIELD. SHOWN FOR REFERENCE.
- FOR THE NEW 16A, 64E CHASIS, ONE 20 POLE AND ONE 12 POLE STATES TERMINAL BLOCK HAVE BEEN INSTALLED UNDER CHASSIS D2 BY THE FIELD.

REFERENCES:

- 01-173-D132 DFR #1 CHANNEL AND POINT ASSIGNMENT  
01-173-H71 PANEL #46 CONNECTION DIAG.-DFR #2  
01-173-D206 PANEL#46, DFR CAB. #2 REAR VIEW

FACILITY NAME: MCGRAU FORD TS

TITLE: DIGITAL FAULT REC. #1 CABINET (230KV) F.V. AND SECTIONS, PANEL #46



DRAWN: JLC

CHECKED: AJW

APPROVED: DATE: 05-30-2005

TYPE: FV

SCALE: N.T.S.

DATE: 05-30-2005

FACILITY #:

01-173

NUMBER:

D-205

SHEET:

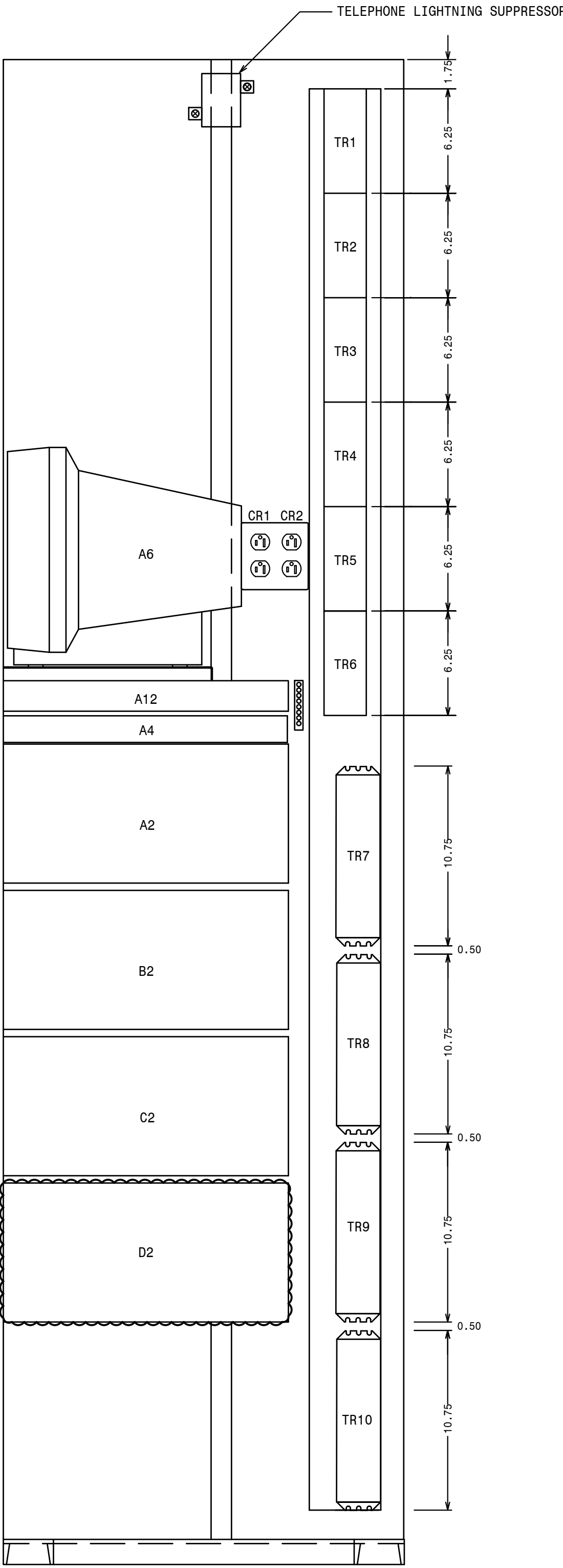
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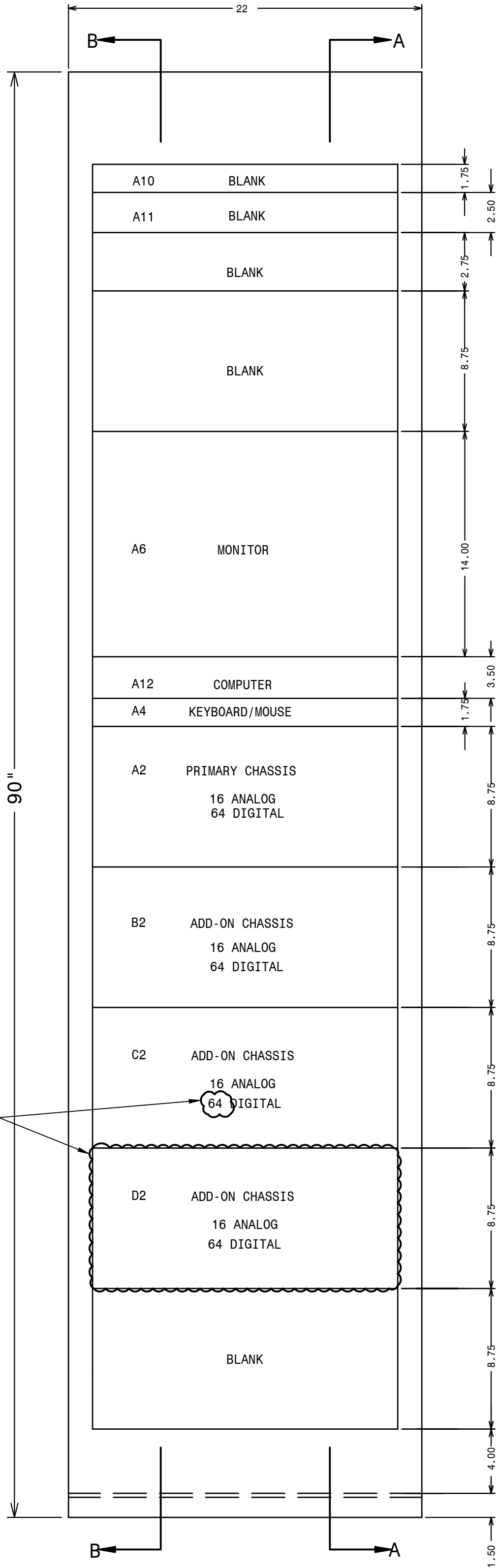
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ASC FACS:

ALT DWG NUM:

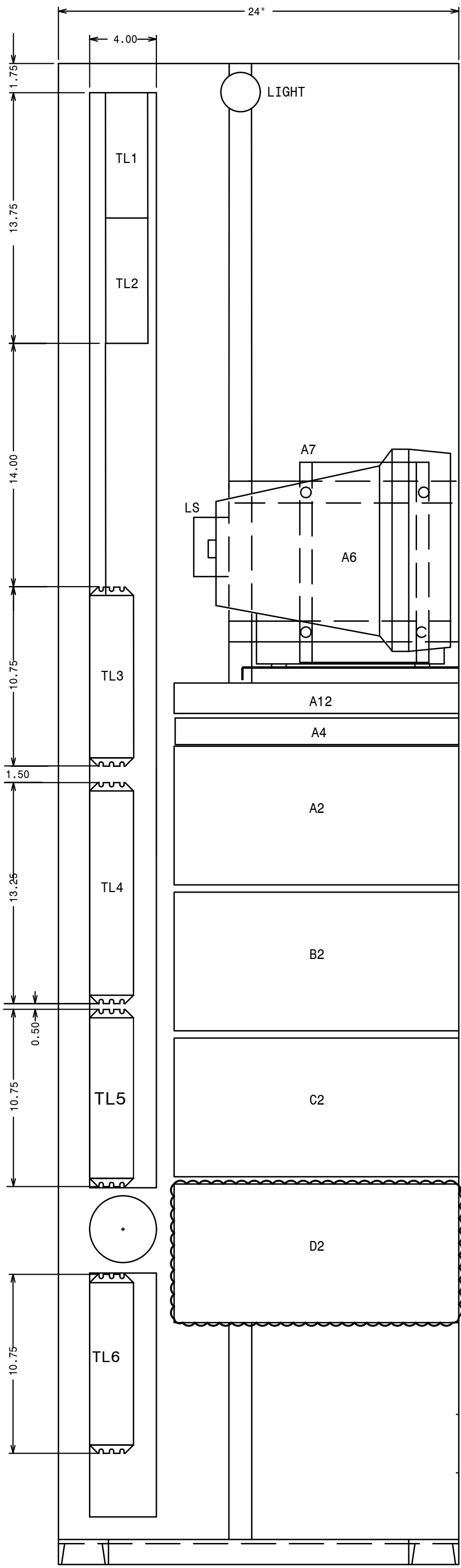


SECTION BB



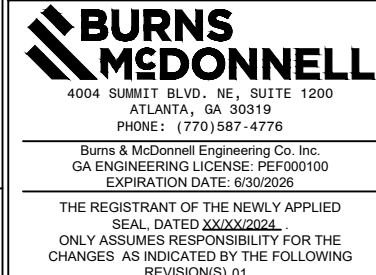
FRONT VIEW

MK: RHSV



SECTION AA

P.I.#1899807



DRAWN: JLC

CHECKED: AJW

APPROVED: DATE: 05-30-2005

TYPE: FV

SCALE: N.T.S.

DATE: 05-30-2005

FACILITY #:

01-173

NUMBER:

D-205

SHEET:

001

REV:

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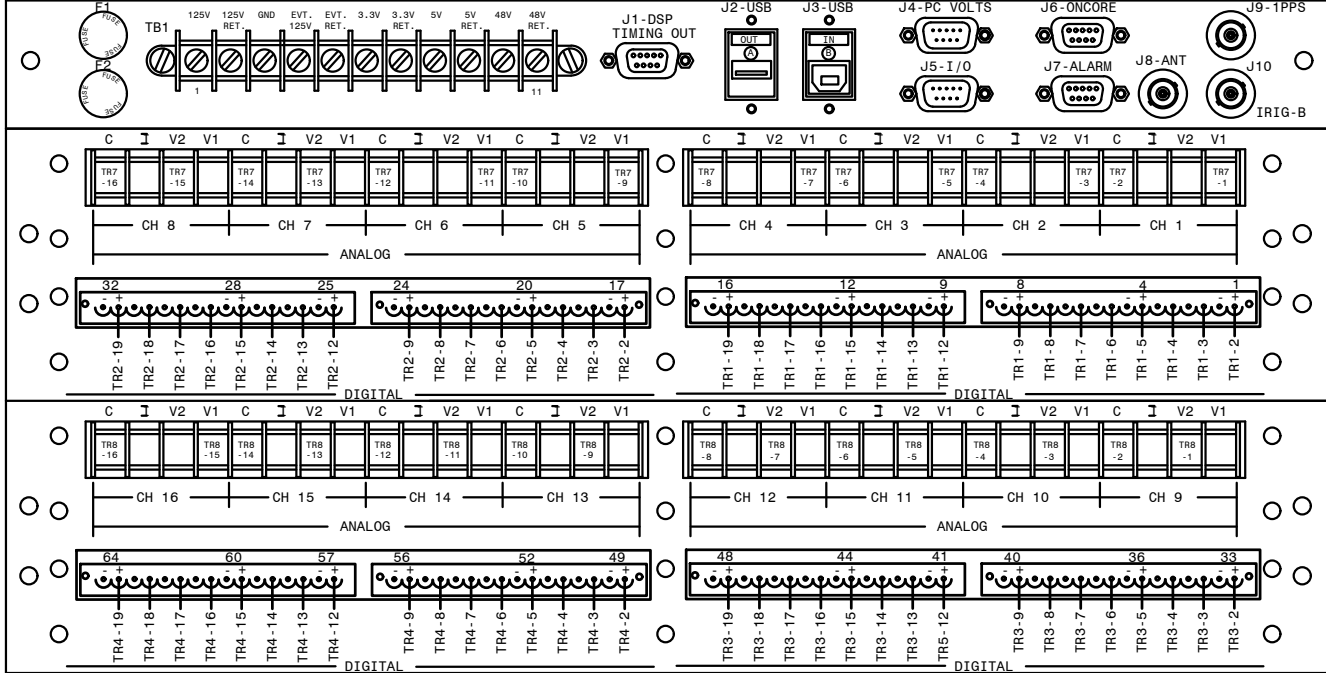
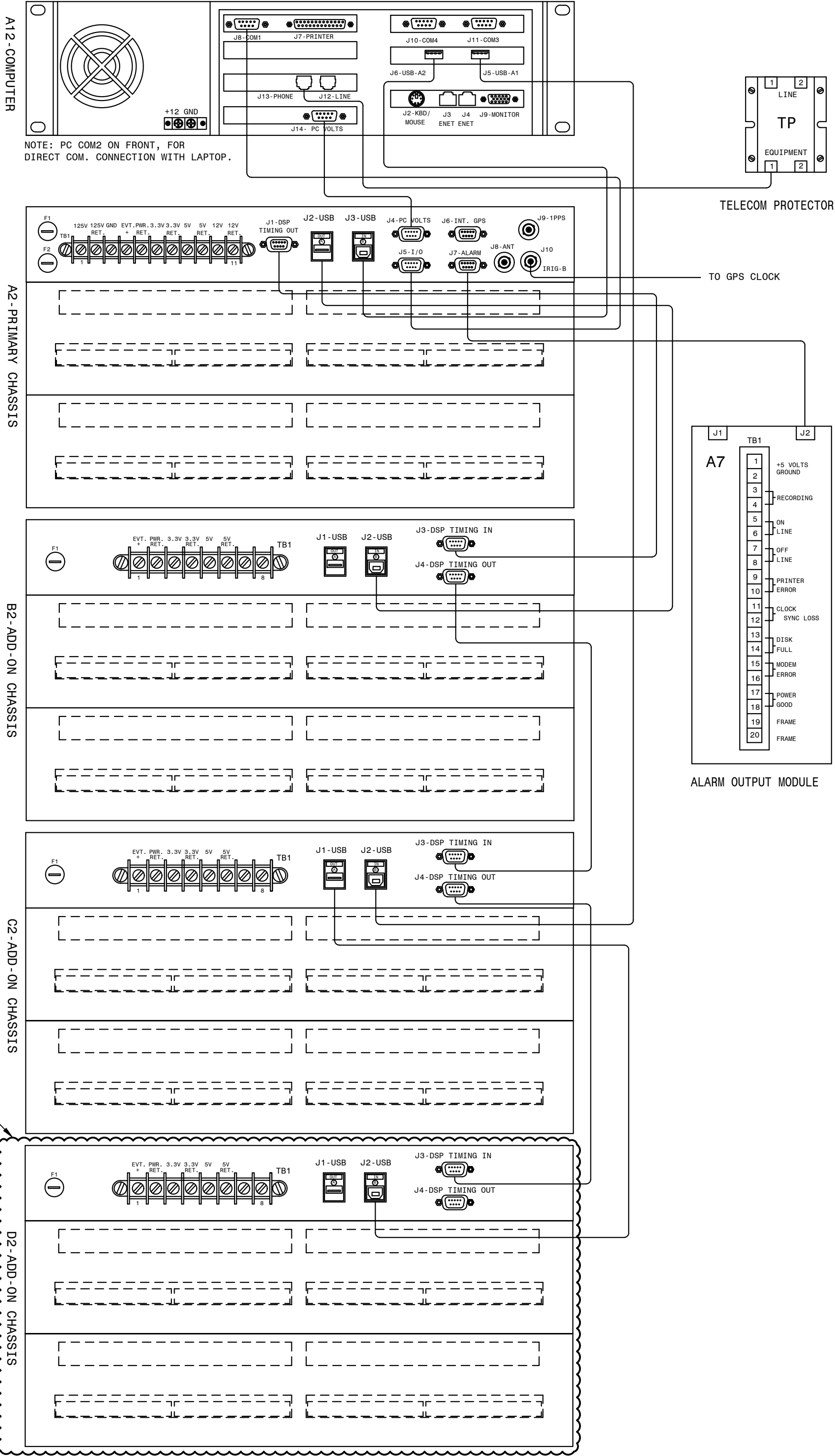
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ALT DWG NUM:

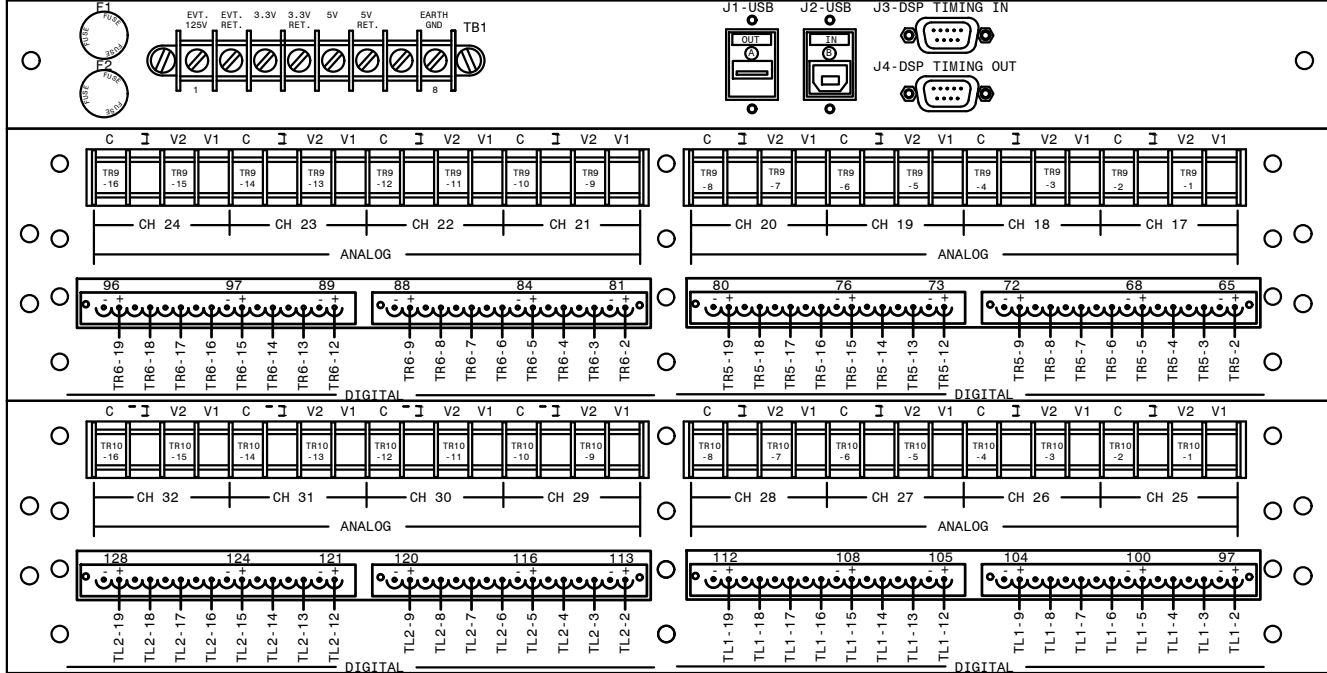
INTERCONNECTING CABLES LIST		
A12-J6 TO A2-J3	A12 COMPUTER USB (A2)	TO PRIMARY CHASSIS USB (B)
A12-J5 TO A2-J2	A12 COMPUTER USB (A1)	TO PRIMARY CHASSIS USB (B)
A12-J14 TO A2-J4	COMPUTER PC VOLTS TO PRIMARY CHASSIS	
A12-J8 TO A2-J5	COMPUTER COM1 TO PRIMARY CHASSIS I/O PORT	
A12-J13 TO A11	PORT 1-8 COMPUTER J13 TO A11 PORT DESIGNATION PER STATION	
A12-J11 TO A2-J6	COMPUTER COM3 TO PRIMARY CHASSIS INT. GPS	
A2-J1 TO B2-J3	A2 CHASSIS DSP TIMING (OUT) TO B2 CHASSIS DSP TIMING (IN)	
A2-J2 TO B2-J2	A2 CHASSIS USB (A) TO B2 CHASSIS USB (B)	
A2-J8 TO A10-IRIG-B	MODULATED IRIG-B CLOCK SOURCE	
A2-J7 TO A7-J2	ALARM OUTPUT MODULE	
B2-J1 TO C2-J2	B2 CHASSIS USB (A) TO C2 CHASSIS USB (B)	
B2-J4 TO C2-J3	B2 CHASSIS DSP TIMING (OUT) TO C2 CHASSIS DSP TIMING (IN)	
C2-J1 TO D2-J2	C2 CHASSIS USB (A) TO D2 CHASSIS USB (B)	
C2-J4 TO D2-J3	C2 CHASSIS DSP TIMING (OUT) TO D2 CHASSIS DSP TIMING (IN)	

ITEM	QTY	DESCRIPTION
A2	1	PRIMARY CHASSIS 16A, 64E
B2	1	ADD-ON CHASSIS 16A, 64E
C2	1	ADD-ON CHASSIS 16A, 64E
D2	1	ADD-ON CHASSIS 16A, 64E
A6	1	MONITOR/KEYBOARD
A7	1	ALARM OUTPUT MODULE
A9	1	MODEM- INTERNAL TO A12
A12	1	COMPUTER
IL	1	INTERIOR LIGHT
CR	2	CONVENIENCE RECEPTACLE
LS	1	LIGHT SWITCH
TP	1	TELECOM PROTECTOR

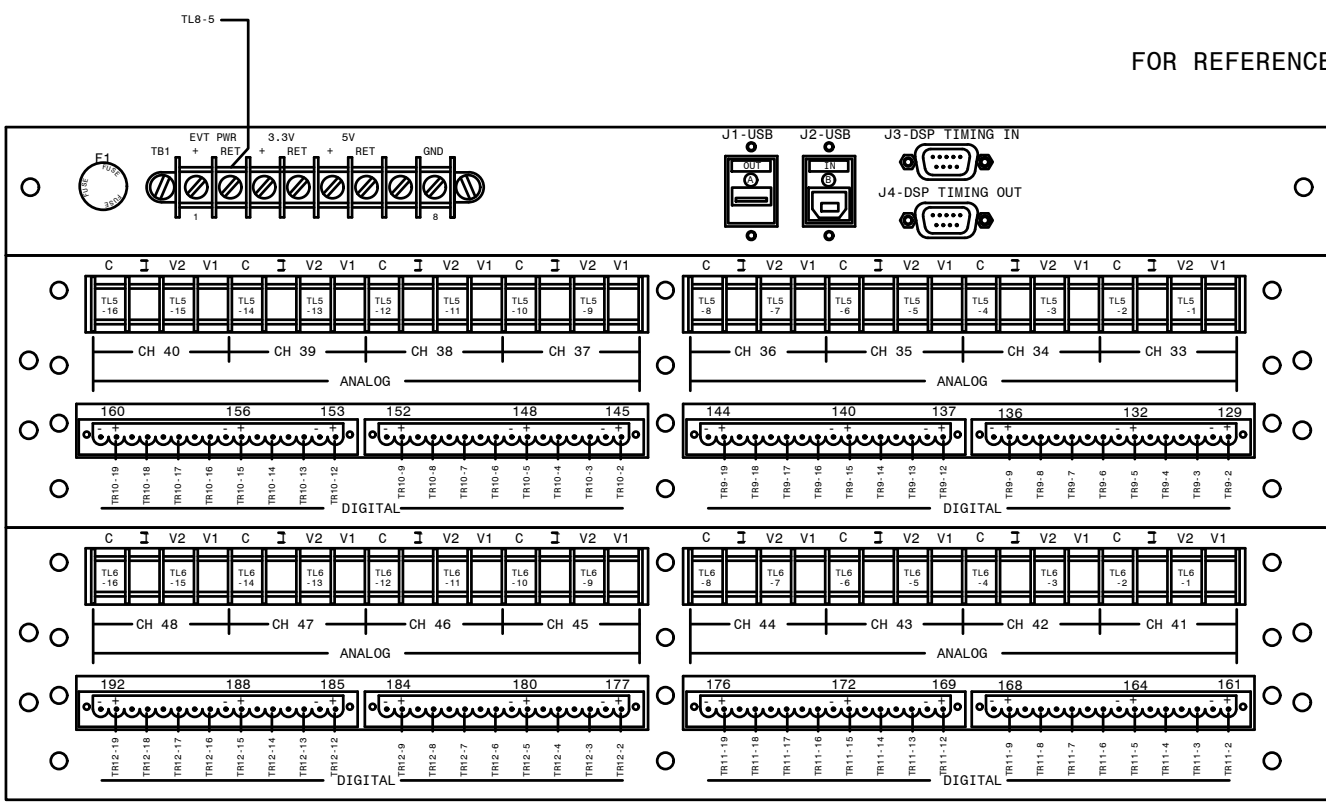
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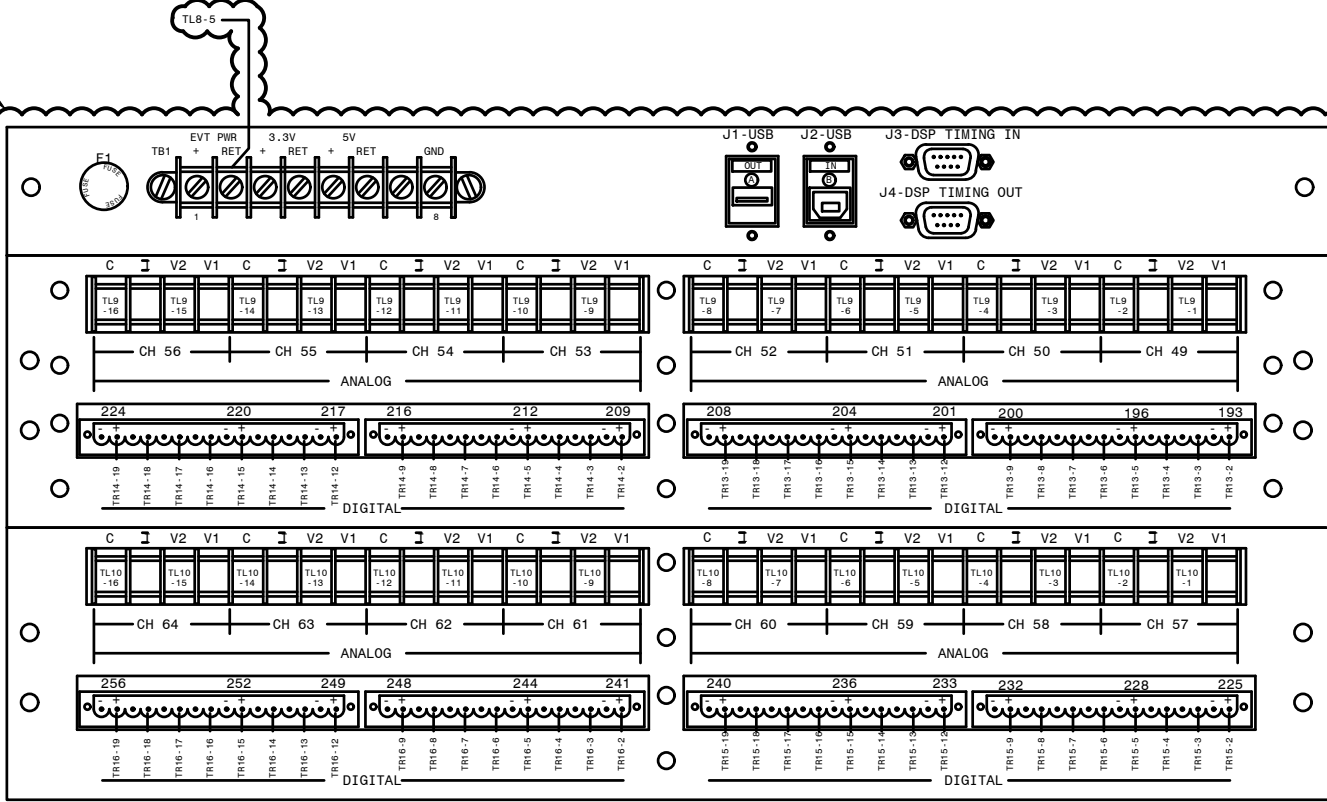
(A2)



(B2)



(C2)



(D2)

NOTES:

- USE V1 40.01 TO 400V FULL SCALE.
- USE V2 1V TO 40V FULL SCALE
- WHEN "V2" INPUT IS USED, JUMPER MUST BE CONNECTED BETWEEN V1 & V2 OF SAME CHANNEL.
- F1 = MAIN POWER FUSE
- F2 = EVENT POWER FUSE
- ALL WIRES 14AWG SIS UNLESS OTHERWISE SPECIFIED.
- ALL EVENT (DIGITAL) CHANNELS HAVE COMMON RETURN. JUMPERS INSIDE CHASSIS TIE RETURNS TOGETHER.
- ADD-ON CHASSIS D2 WAS A 0 ANALOG, 64 EVENT POINT CHASSIS AND HAS BEEN REPLACED WITH A 16 ANALOG, 64 EVENT POINT CHASSIS BY THE FIELD. SHOWN FOR REFERENCE. FIELD TO VERIFY THE CONNECTIONS.

REFERENCES:

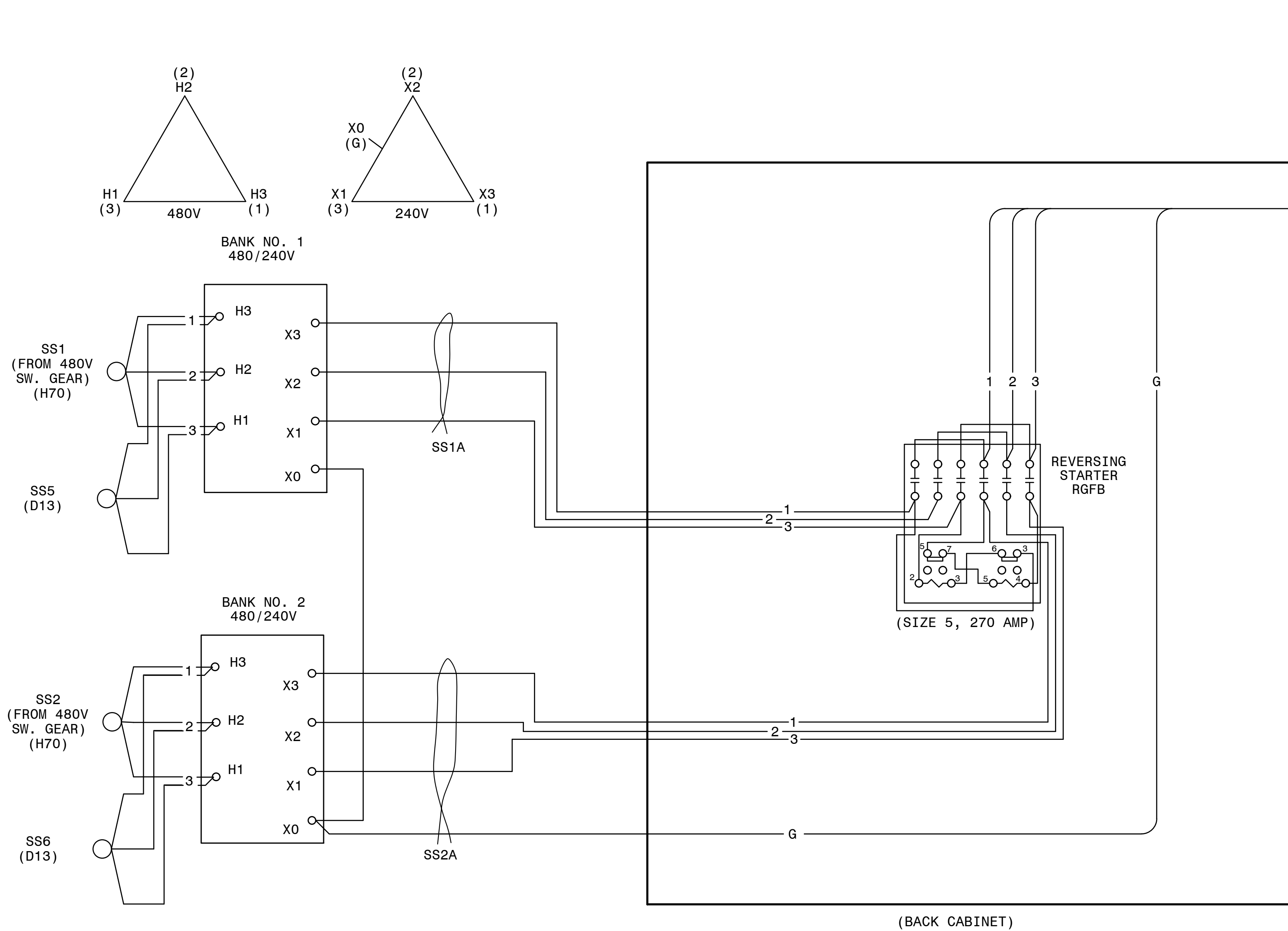
- 01-173-D205 DFR #1 CABINET F.V. & SECTIONS, PANEL #46  
01-173-D132 DFR #1 CHANNEL & EVENT ASSIGNMENTS, PANEL #46  
01-173-H71 DFR #1 CONNECTION DIAGRAM, PANEL #46

P.I.#1899807



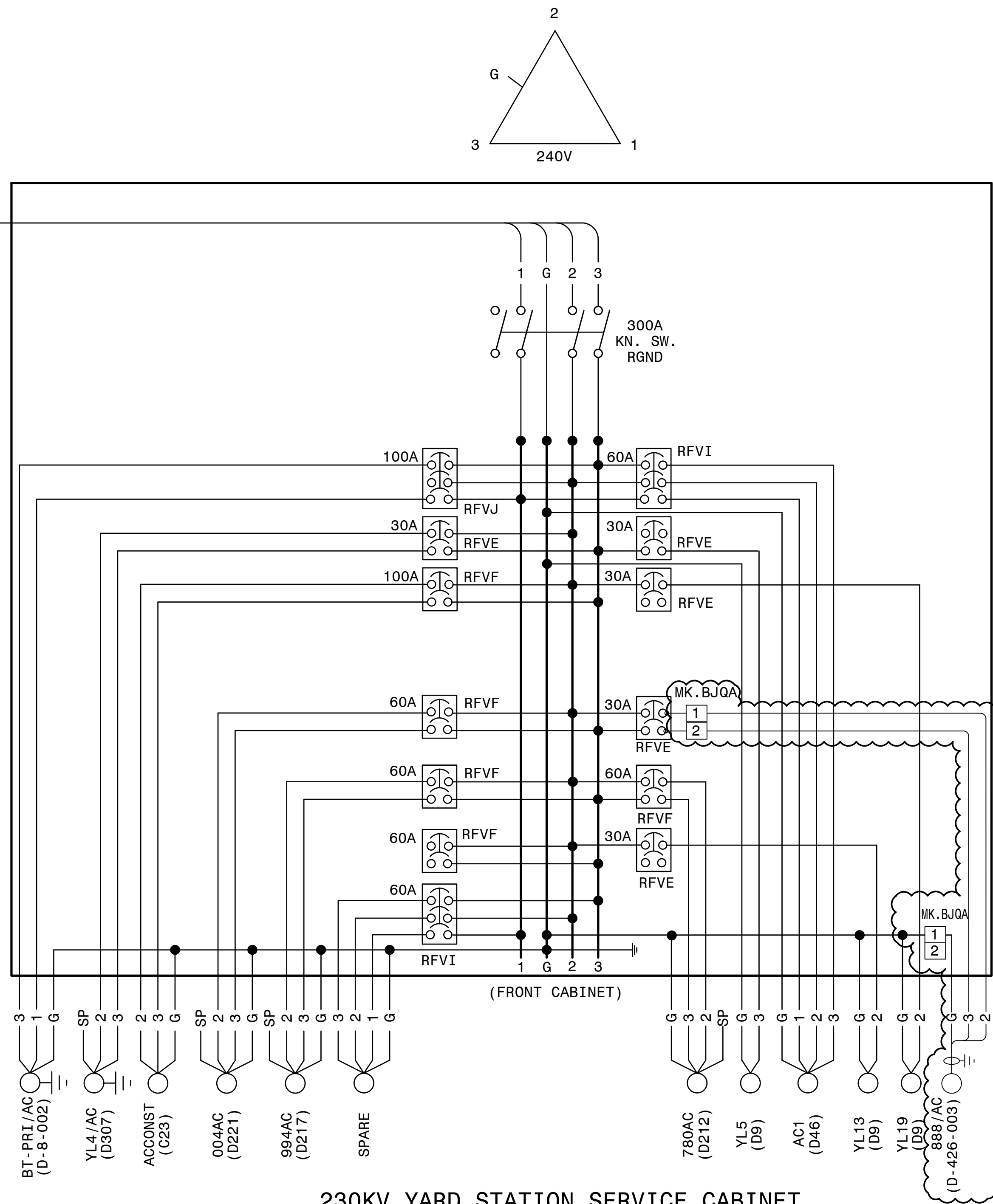
GEORGIA POWER		FACILITY NAME:		MCGRAU FORD TS	
DRAWN: JLC		TITLE: DIGITAL FAULT RECORDER #1 CABINET REAR VIEW, PANEL #46 (230KV)			
CHECKED: AJW		FACILITY #:		NUMBER:	
APPROVED: BOM:		01-173		D-206	
DATE: 08/25/2005		ASC FAC:		SHEET: REV:	
				- 001 -	
				ALT DWG NUM:	





230KV YARD STATION SERVICE TRANSFORMERS

230KV YARD THROWOVER CABINET



230KV YARD STATION SERVICE CABINET

NOTES:

- POWER TERMINAL BLOCK MK. BJQA TO BE LOCATED AND INSTALLED BY THE FIELD, AS REQUIRED.
- CABLES INSTALLED FROM POWER TERMINAL BLOCK MK. BJQA TO BLOCK TERMINAL MK. BJPE TO BE #10.

P.I.#1899807



AUTOCAD ELECTRICAL

THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

GEORGIA POWER

A SOUTHERN COMPANY

DRAWN: JLC

CHECKED: RLJ

APPROVED: AJW

DATE: 07-18-05

FACILITY NAME:

MCGRAU FORD TS

TITLE: 230KV YARD STATION SERVICE & THROWOVER CABINET #1

TYPE: WD

SCALE: NTS

BOI:

ASC FACS:

NUMBER:

01 - 173

D-

215

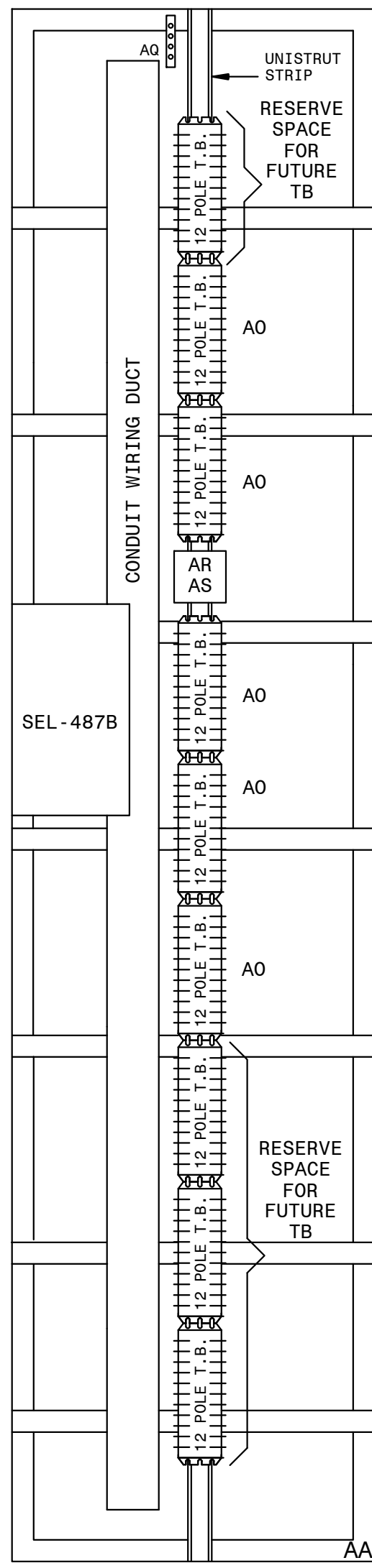
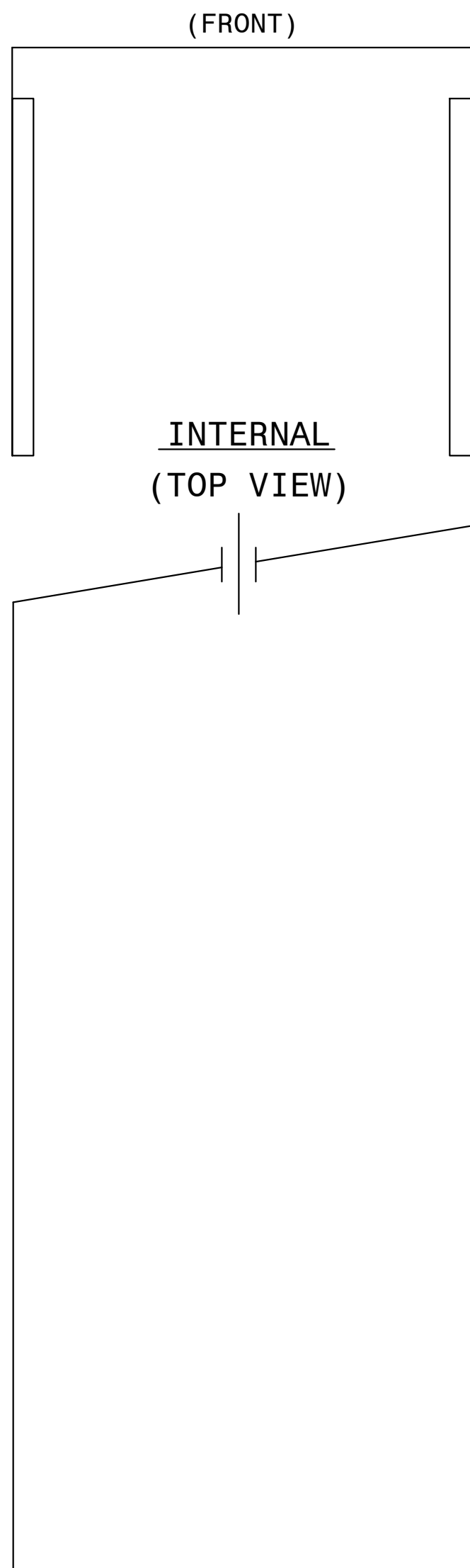
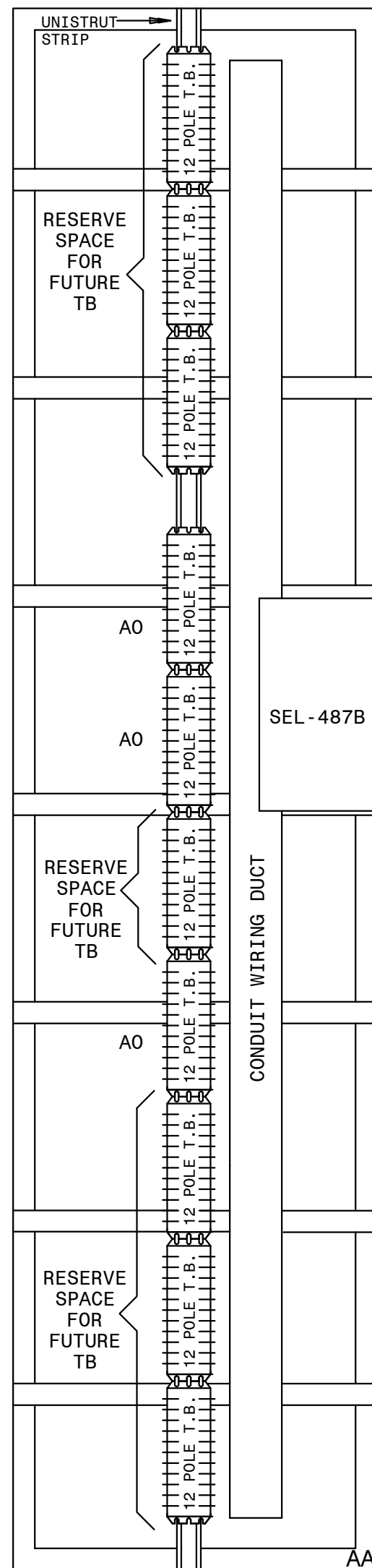
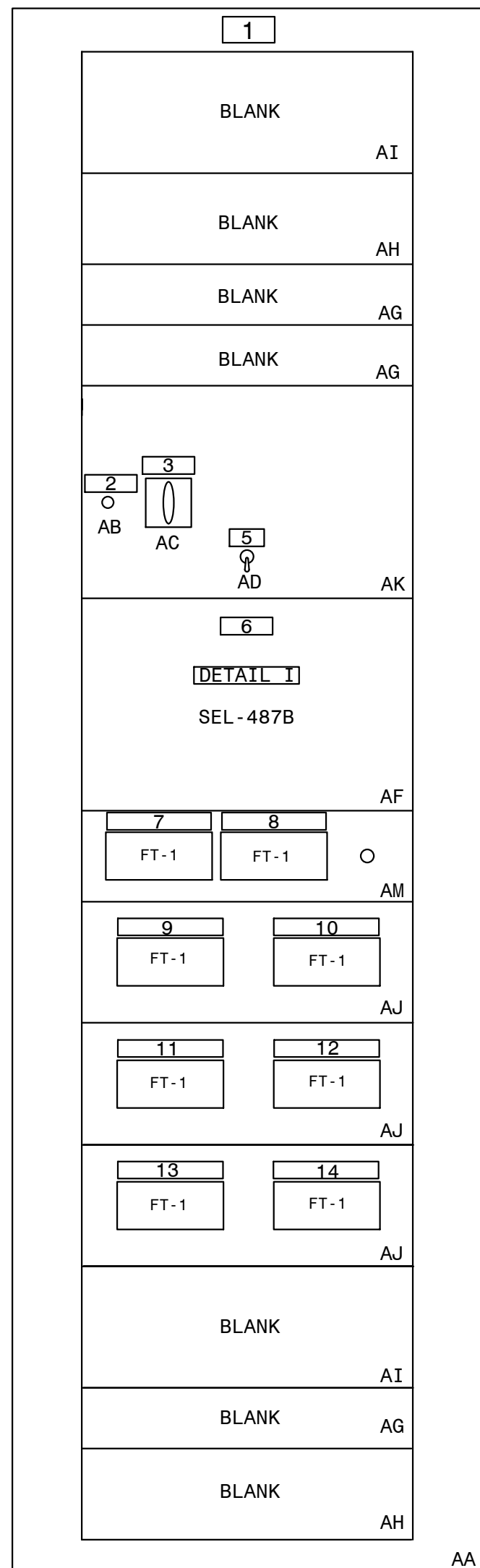
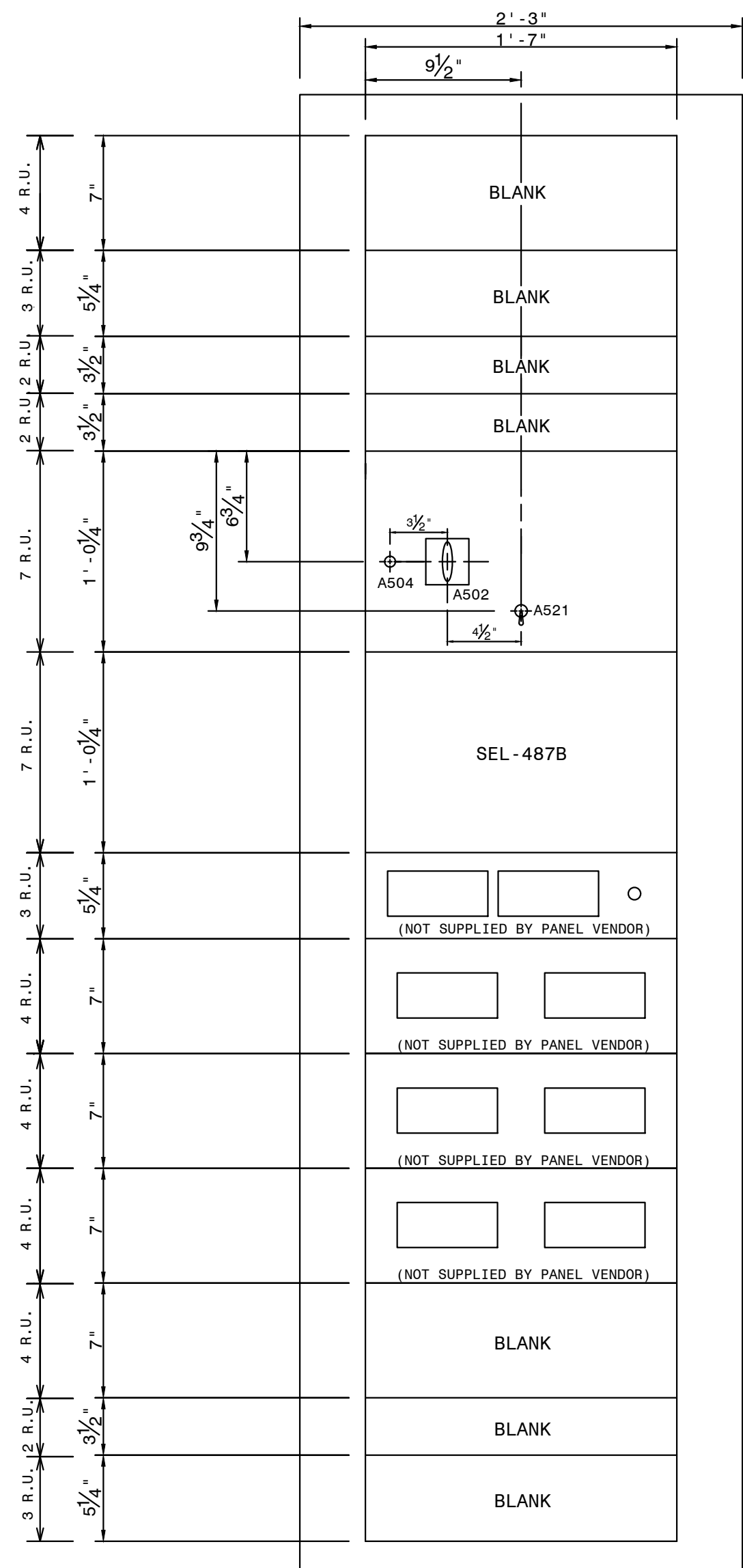
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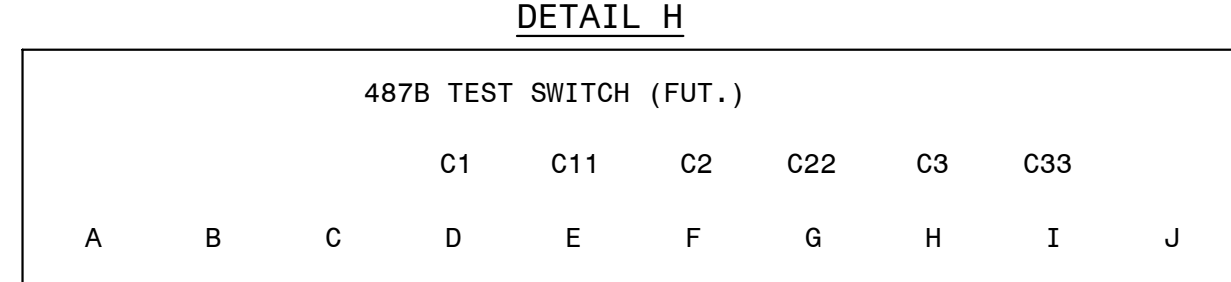
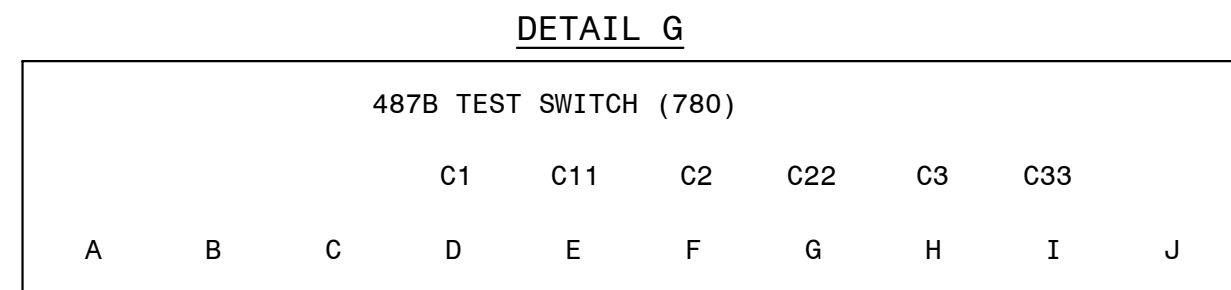
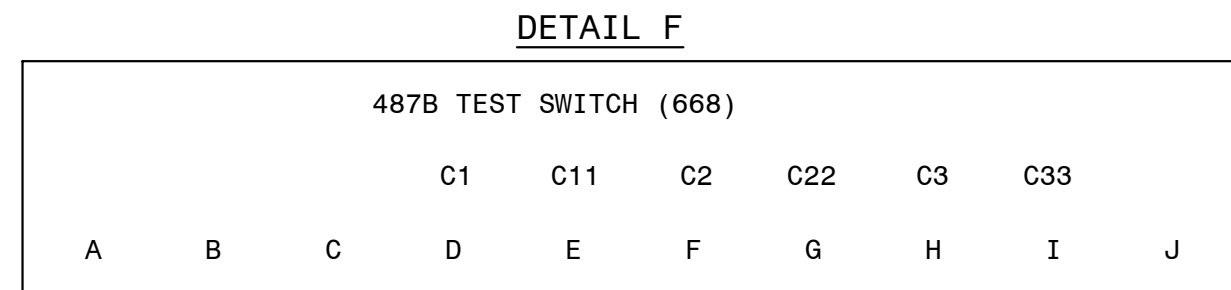
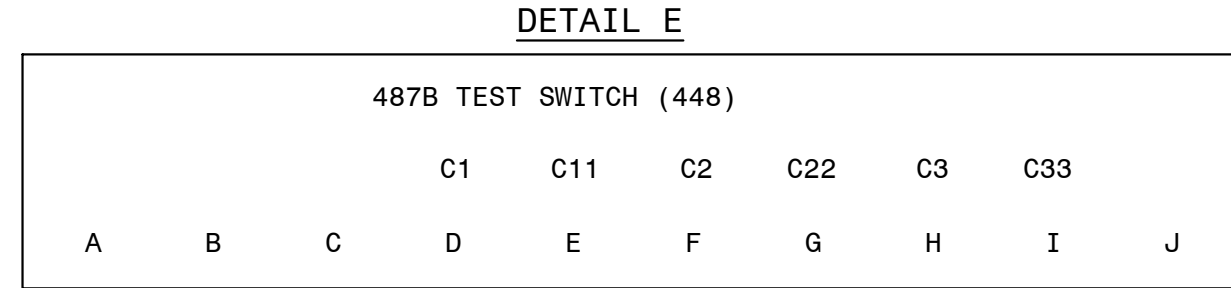
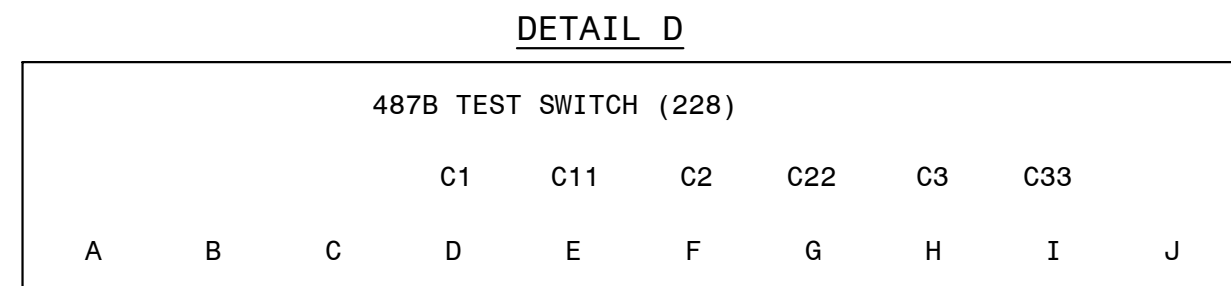
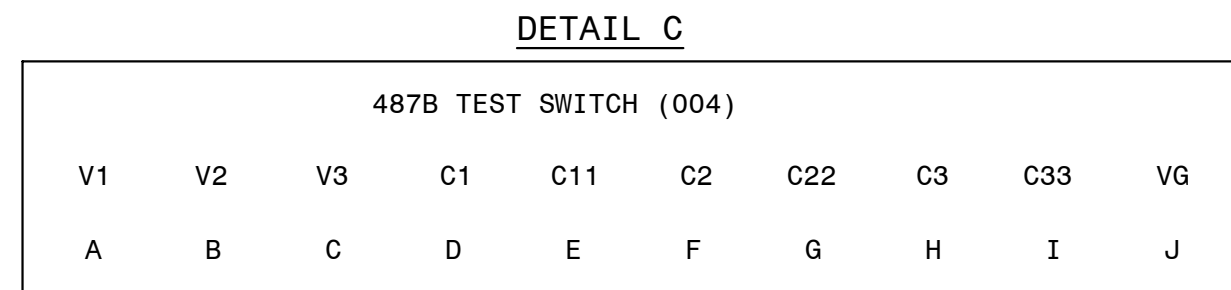
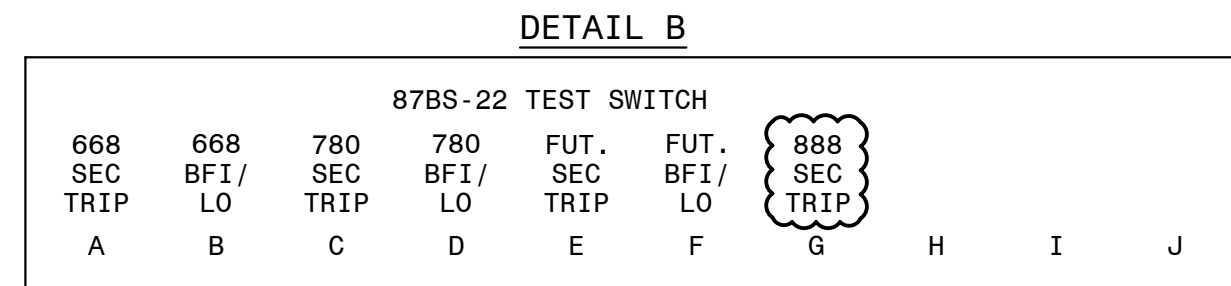
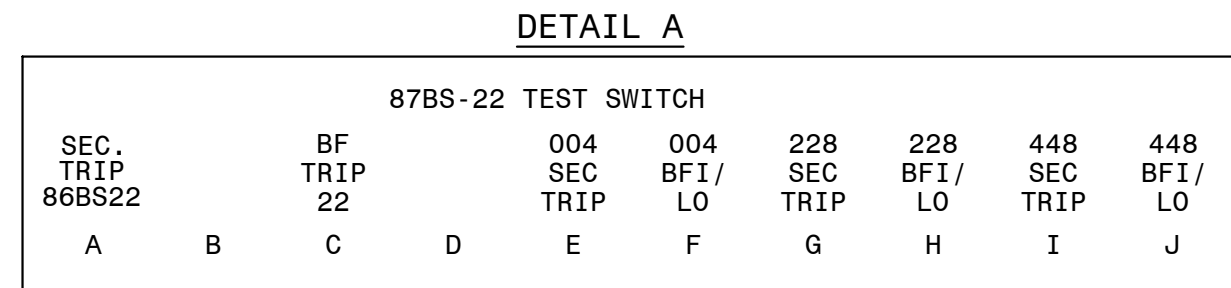
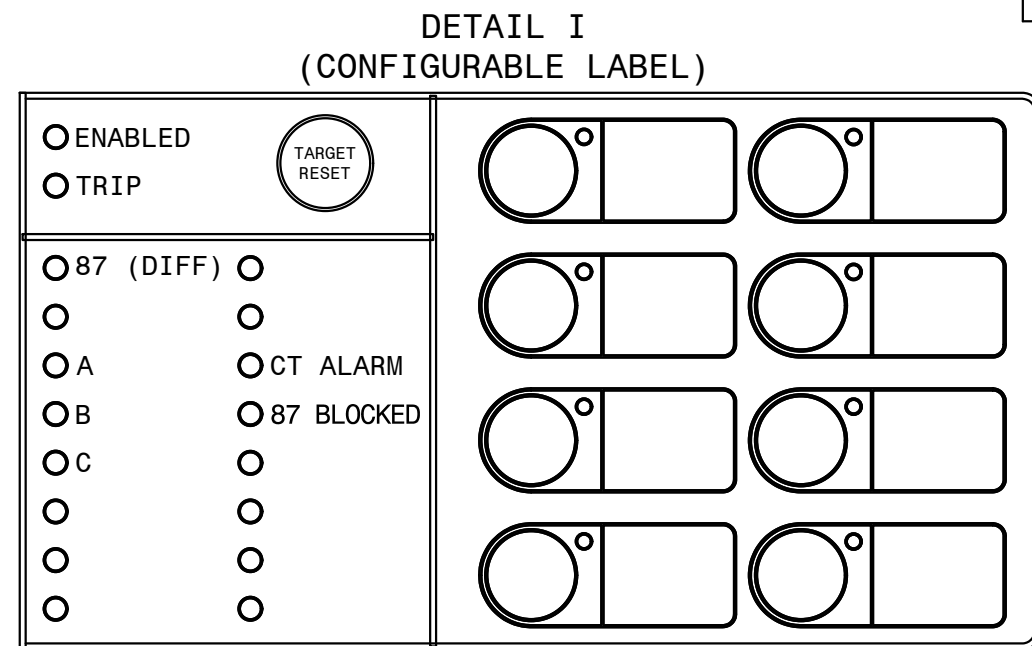
- 001 - 03

ALT DWG NUM:

LABEL DETAILS					
LABEL NO.	FIRST LINE	SECOND LINE	THIRD LINE	FOURTH LINE	FIFTH LINE
1	PANEL NO. 60		DWG. NO. 01-173-D263		
2	TRIP CIRCUIT MONITOR	86BS-22 RELAY			
3	SECONDARY AUX. TRIPPING RELAY	86BS-22	TRIPS-004, 228, 448, 668, 780, 868		
4					
5	87BS-22 CUTOUT SWITCH	230KV BUS NO.2	DIFFERENTIAL		
6	SEL-487B RELAY	230KV BUS NO. 2	DIFFERENTIAL RELAY		
7	SEE DETAIL A				
8	SEE DETAIL B				
9	SEE DETAIL C				
10	SEE DETAIL D				
11	SEE DETAIL E				
12	SEE DETAIL F				
13	SEE DETAIL G				
14	SEE DETAIL H				



QTY.	MK.	SES ITEM	DESCRIPTION	REMARKS
1	AA	RHCL	SWITCHBOARD PANEL, 49 R.U. SPACES 27" X 90" X 21"	DWG. PAN-CONST-D1
		RHCN	SWITCHBOARD ANGLE FRAME 27" X 90" X 21"	DWG. PAN-CONST-D2
1	AB	RGII	INDICATING LIGHT, NEON, ET-17, COMPLETE	
1	AC	RGGE	REL-AUX 2NO-2NC/DEK 10 DECK, COR/ER, 30-140VDC	EC #79400D
1	AD	RGSI	SWITCH, TOGGLE, 4PDT	MICROSWITCH #4711-3
1	AF	RIJC	REL-CURRENT DIFF. TYPE SEL-487B, MICROPROC. BASED	SEL 04B7B045X2XXXXX7
3	AG	RGWU	RACK PANEL, 2 R.U. HIGH, BLANK	DWG. PAN-CONST-D1
2	AH	RGWV	RACK PANEL, 3 R.U. HIGH, BLANK	DWG. PAN-CONST-D1
2	AI	RGWV	RACK PANEL, 4 R.U. HIGH, BLANK	DWG. PAN-CONST-D1
3	AJ	RHUC	TEST BLOCK RACK MOUNT SYSTEM, 2-10P	MEGGER 194R-220G-ST OR ABB S54G014NN014BX00N
1	AK	RGWZ	RACK PANEL, 7 R.U. HIGH, PUNCHED & DRILLED	DWG. PAN-CONST-D1
1	AM	RHUA	SWITCH, REL. TEST ASSY., 2-10 POLE W/HOLE PUNCHED FOR CO SWITCH	MEGGER #A193RG-220L-ST OR ABB #
8	AO	BJPE	BLOCK TERMINAL, 12 POLE, SLIDING LINK	
1	AO	BAVD	GROUND BAR, COPPER	
1	AR	FUPH	FUSE BLOCK-THREE POLE 1-30 AMP, 250 VOLT	
3	AS	RFVM	FUSE CARTRIDGE, SINGLE ELEMENT, 250V, 6 AMP	




NOTES:

1. CABLE ENTRY IS FROM TOP OF PANEL.

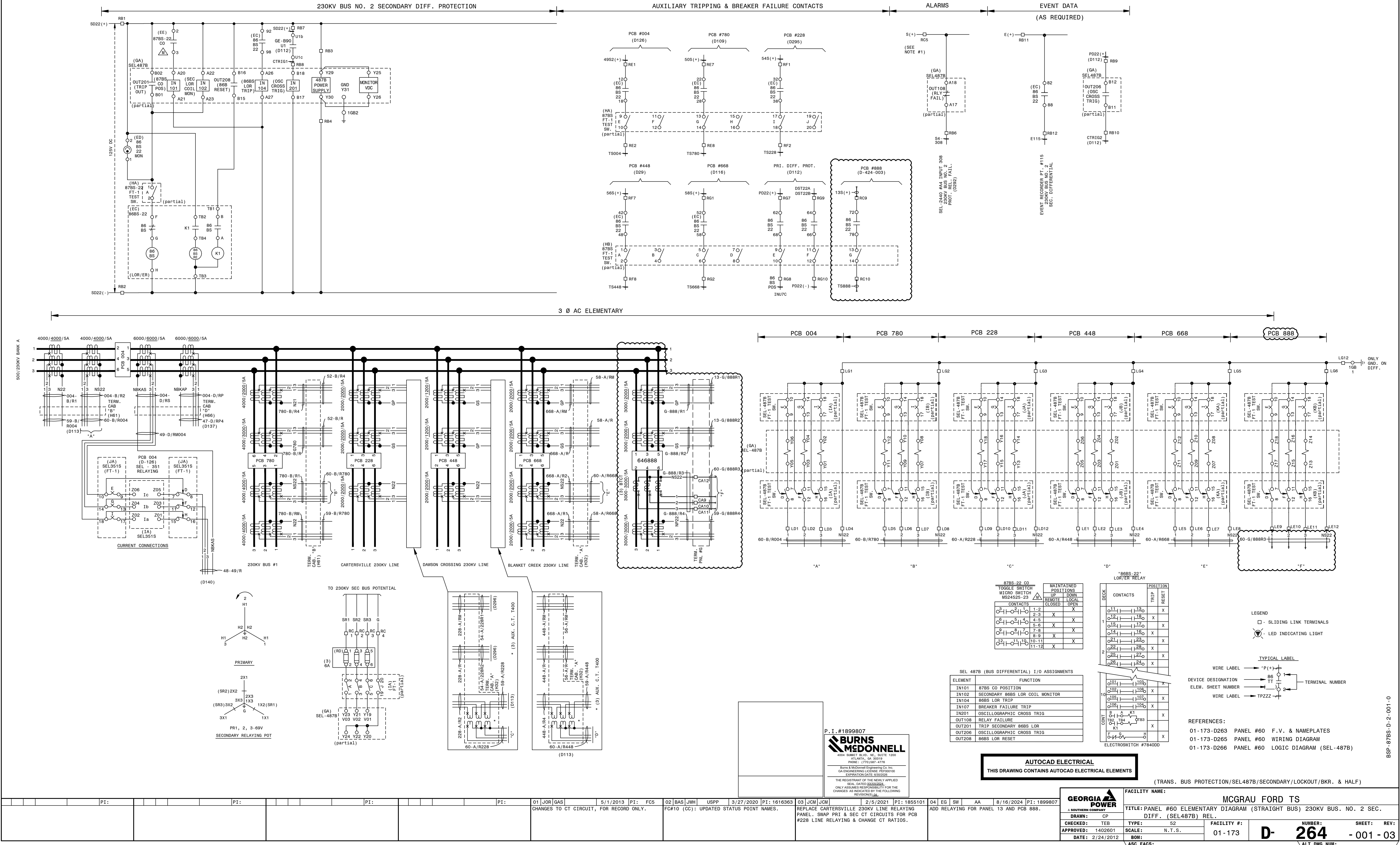
<u>REFERENCES:</u>	
01-173-D264	PANEL #60 ELEMENTARY DIAG.
01-173-D265	PANEL #60 WIRING DIAGRAM
01-173-D266	PANEL #60 LOGIC DIAGRAM (SEL-487B)
PAN-CONST-D1	CONSTRUCTION DETAILS
PAN-CONST-D2	CONSTRUCTION DETAILS

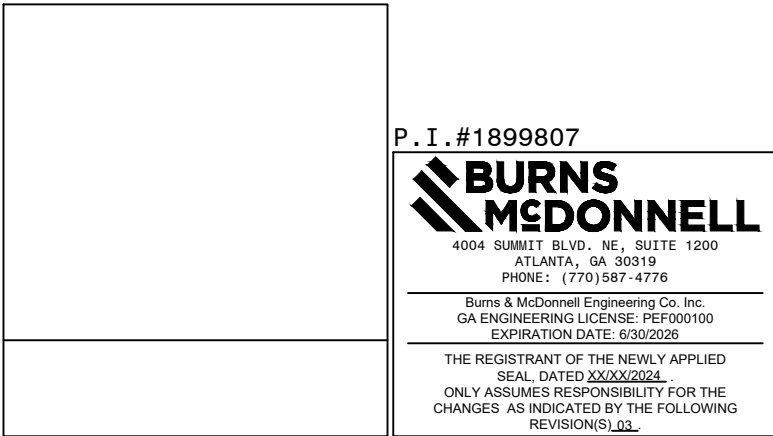
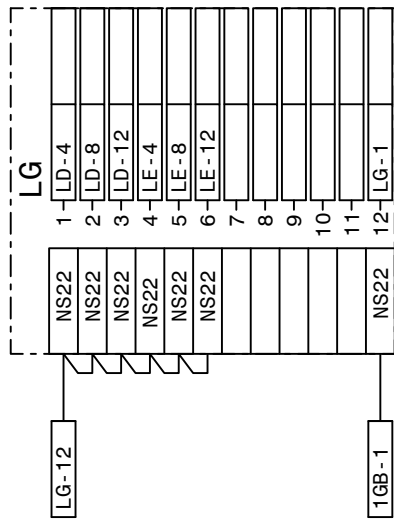
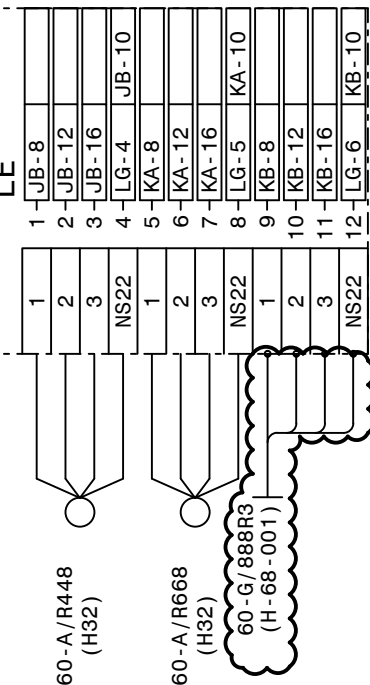
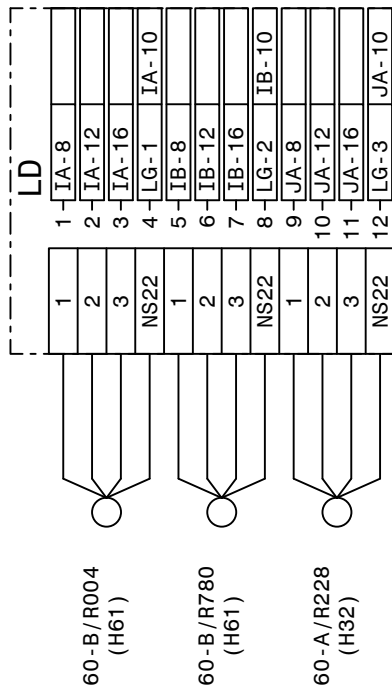
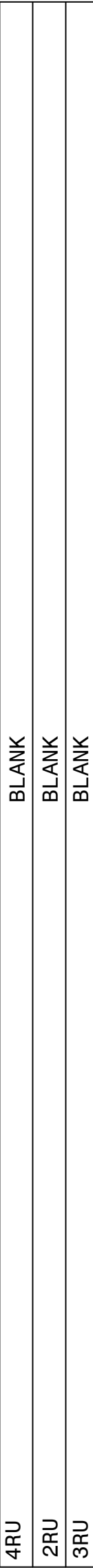
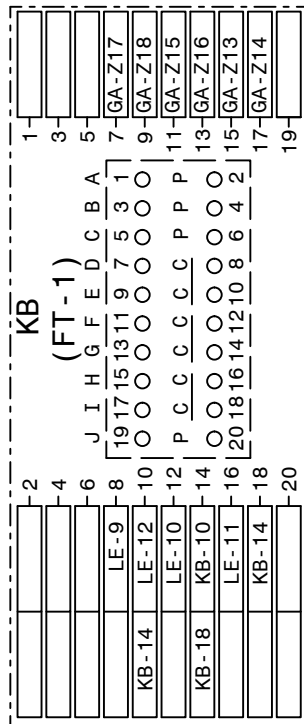
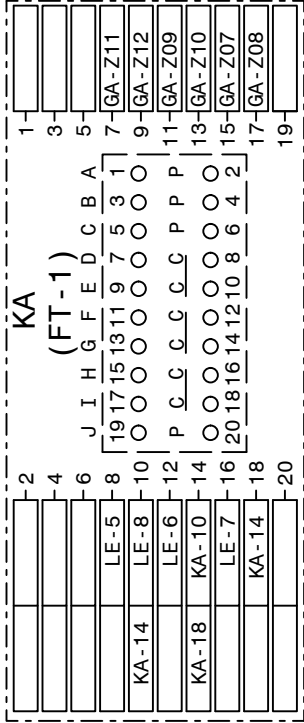
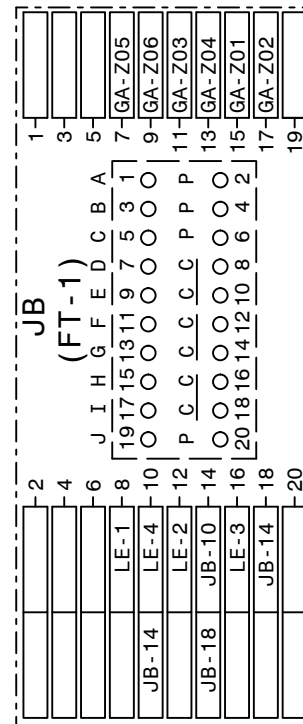
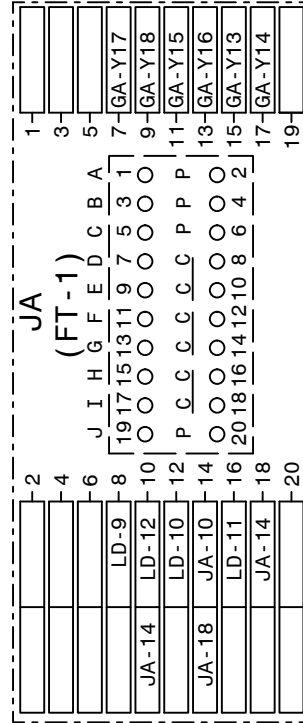
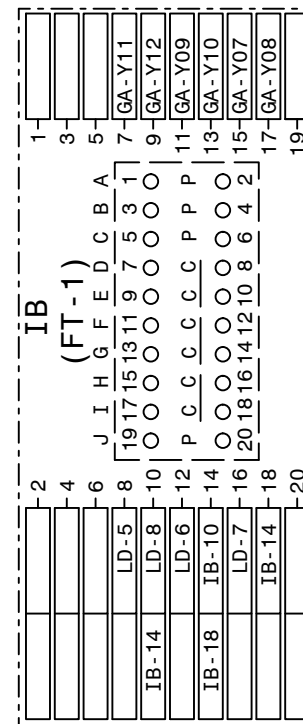
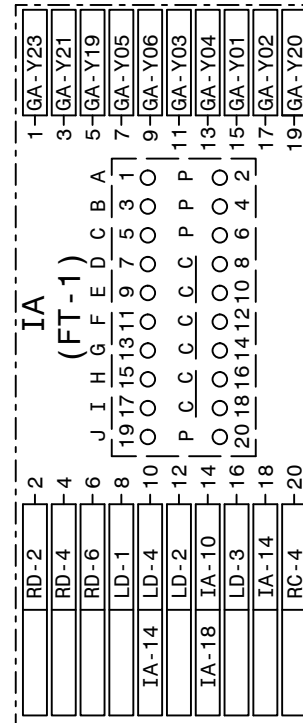
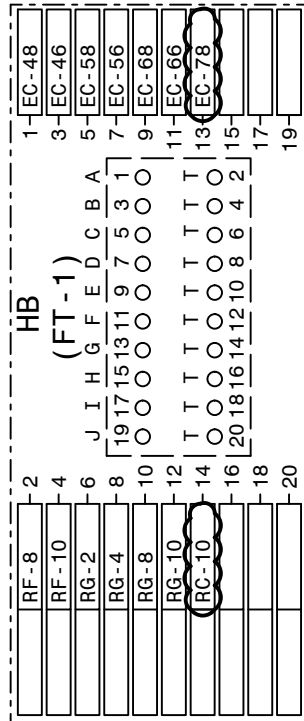
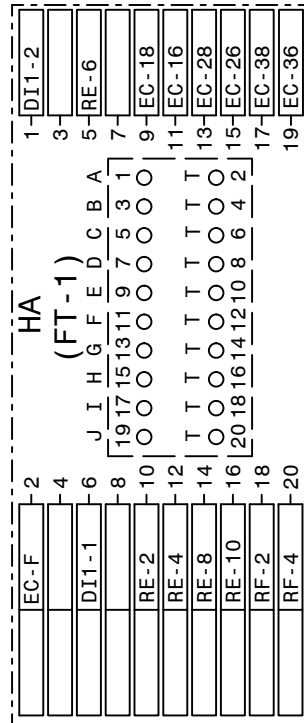
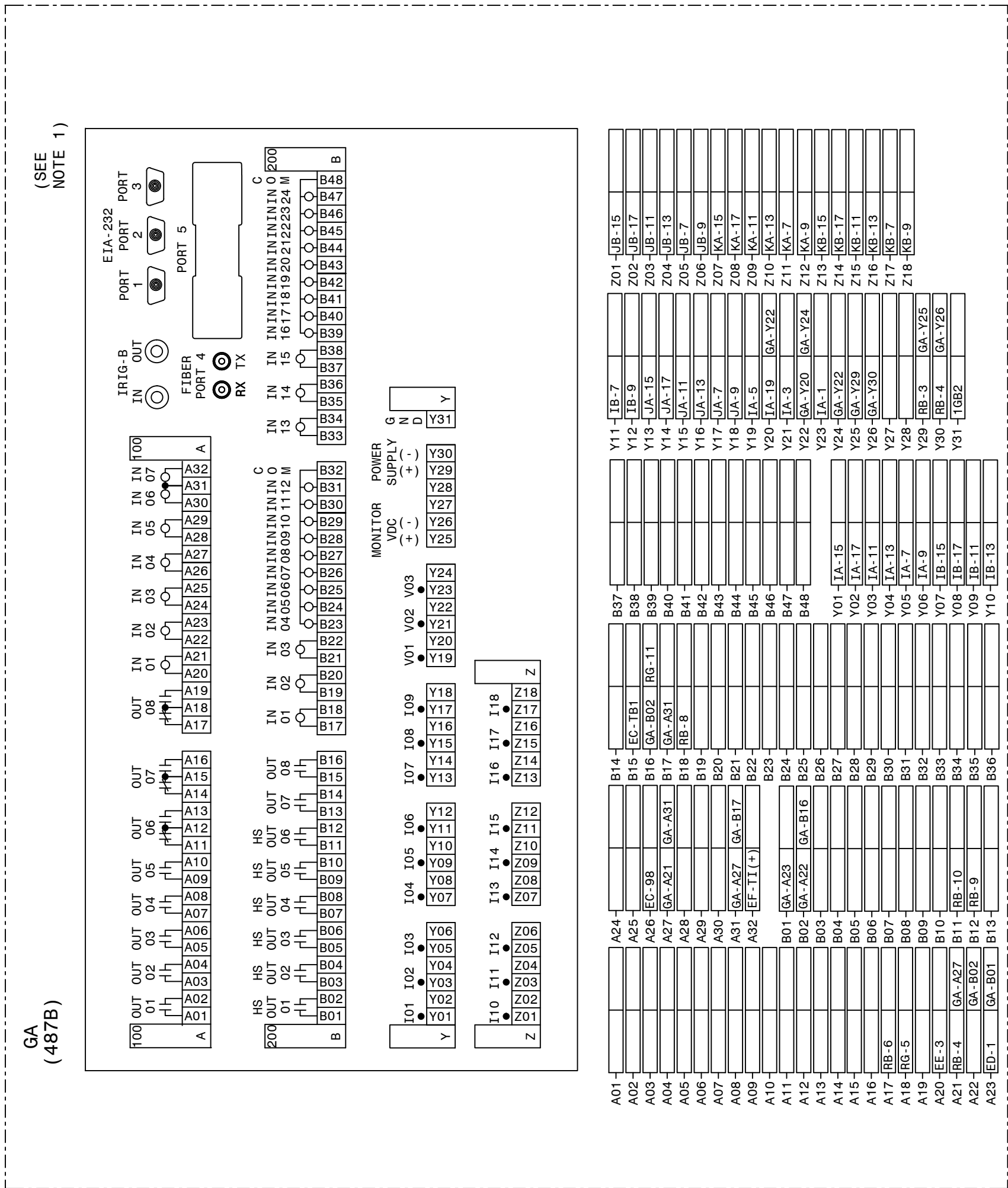
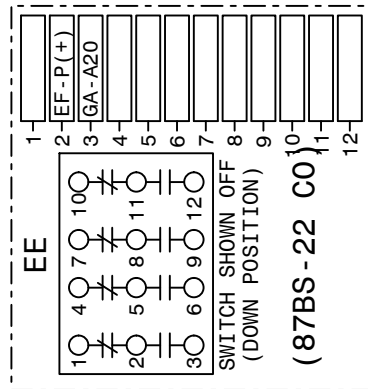
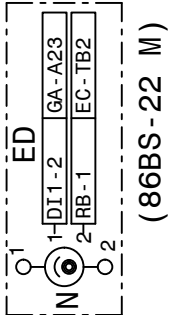
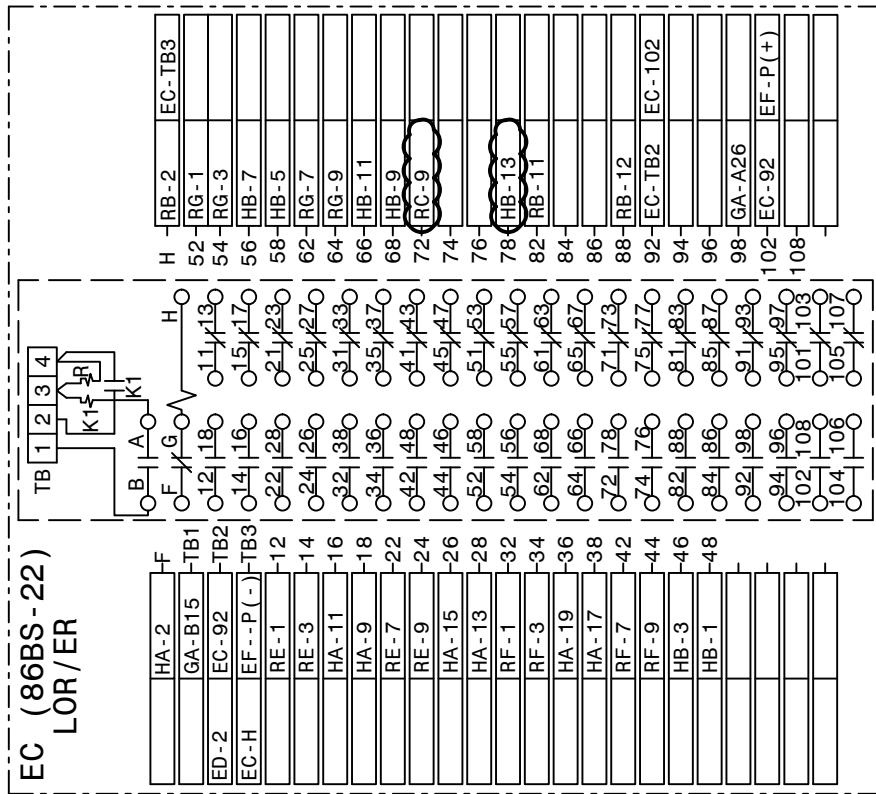
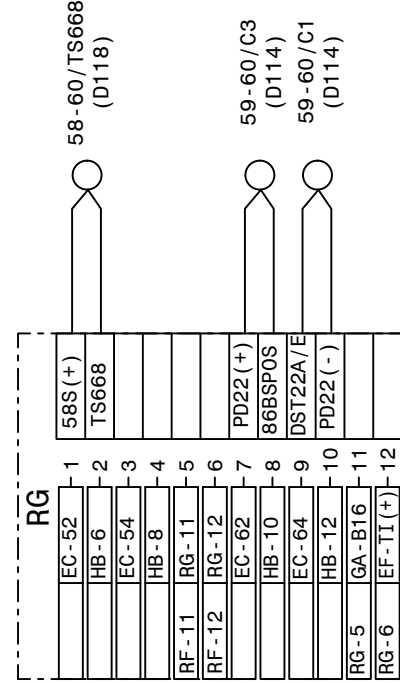
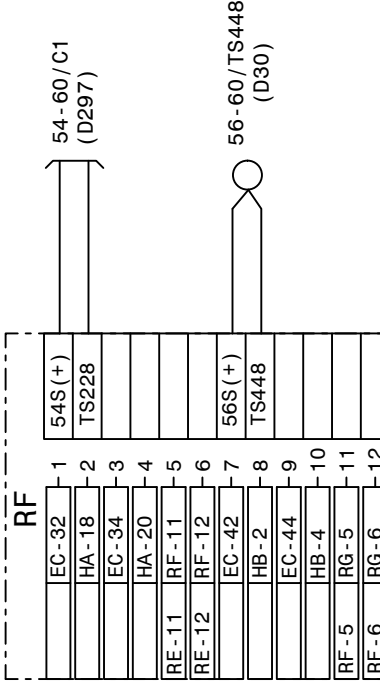
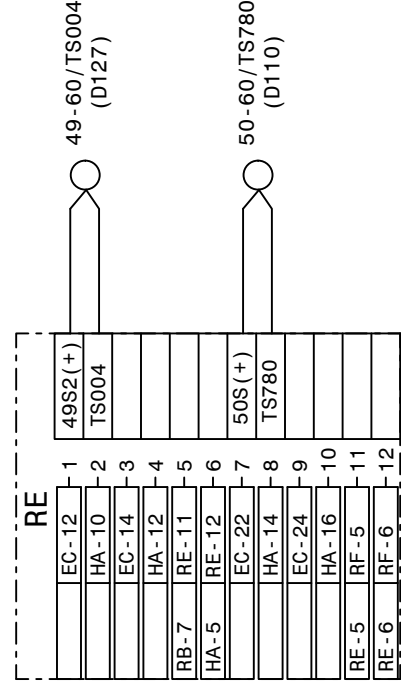
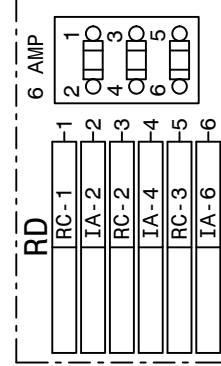
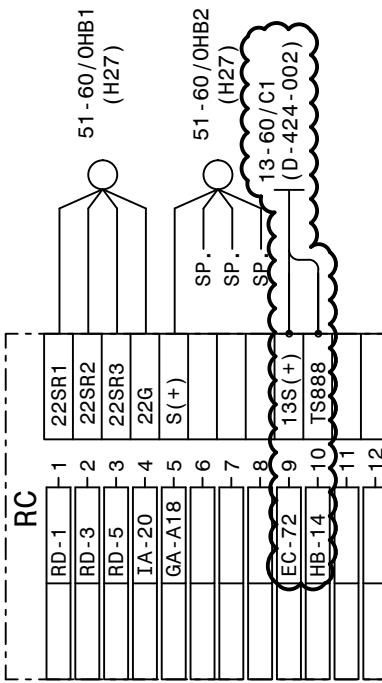
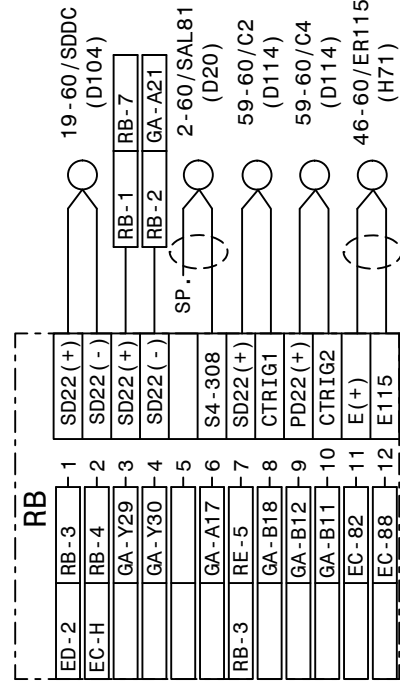
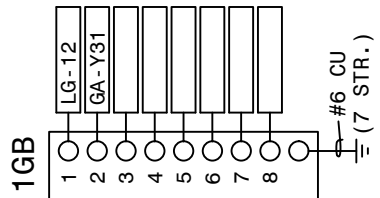
(TRANS. BUS PROTECTION/SEL-487B/SECONDARY/LOCKOUT/STRAIGHT BUS)


 SOUTHERN COMPANY	FACILITY NAME:							MCGRAU FORD TS			
	TITLE: PANEL #60 FRONT VIEW & NAMEPLATES (6 CURR. CKT.) 230KV BUS NO. 2										
	SEC. DIFF. (SEL487B REL.)										
	DRAWN: CP		TYPE: EV		FACILITY #:		NUMBER:		SHEET: REV:		
	CHECKED: TEB		SCALE: 1 1/2"=1'-0"		01-173		D		263		
	APPROVED: 1402601		BOM:						- 001 - 0		
	DATE: 2/24/2012								ALT DWG NUM:		
		ASC FACS:									

[illegible]







<div> <b>GEORGIA POWER</b> <small>a SOUTHERN COMPANY</small></div>	FACILITY NAME:										MCGRAU FORD TS													
	TITLE: PANEL #60 WIRING DIAGRAM (STRAIGHT BUS) 230KV BUS NO. 2 SEC. DIFF.																							
	(SEL487B) REL.																							
	DRAWN: CP				TYPE: WD				FACILITY #:				<b>D-</b>				NUMBER: <b>265</b>				SHEET: REV:			
	CHECKED: TEB				SCALE: N.T.S.				01-173												- 001 - 02			
APPROVED: 1402601				BOM:																				
DATE: 2/24/2012				ASC FACS:												ALT DWG NUM:								

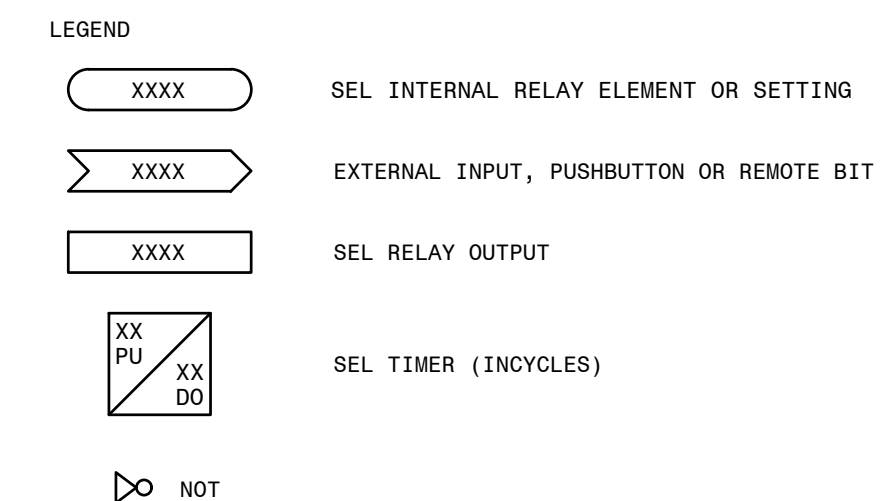
**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES:

01-173-D263	PANEL #60 F.V. & NAMEPLATES
01-173-D264	PANEL #60 ELEMENTARY DIAGRAM
01-173-D266	PANEL #60 LOGIC DIAGRAM

(TRANS. BUS PROTECTION/SEL487B/SECONDARY/LOCKOUT/STRAIGHT BUS)

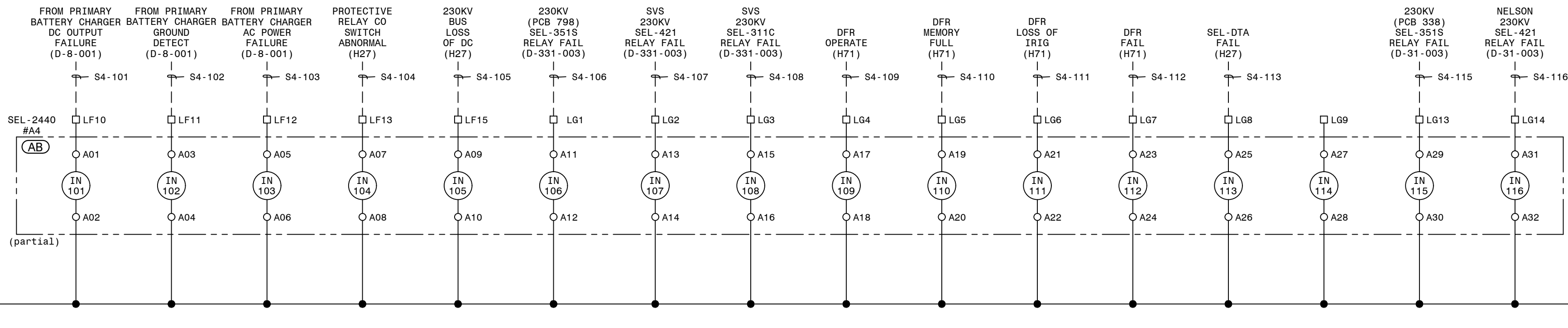




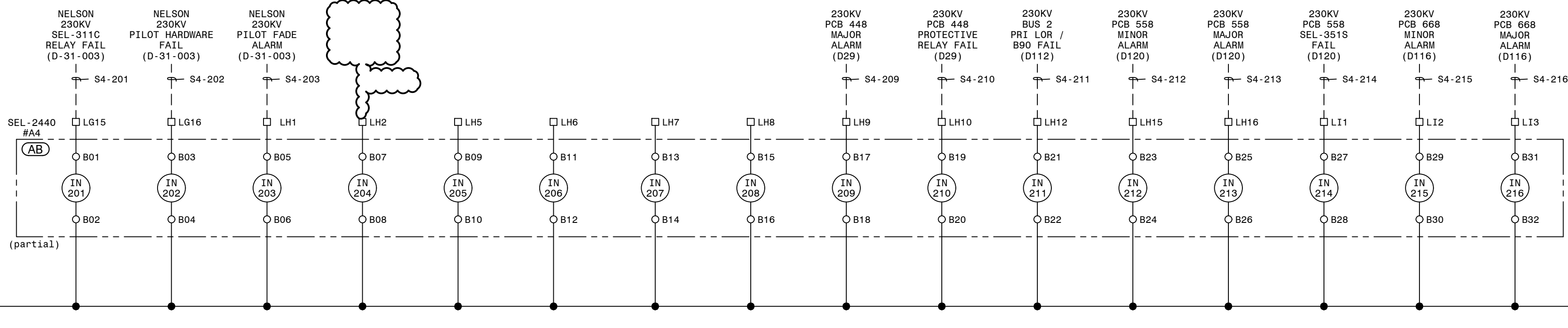
REFERENCES:  
01-173-D264 PANEL #60 ELEMENTARY DIAGRAM  
01-173-D265 PANEL #60 WIRING DIAGRAM

(TRANS. BUS PROTECTION/SEL487B/SECONDARY/LOCKOUT/STRAIGHT BUS)

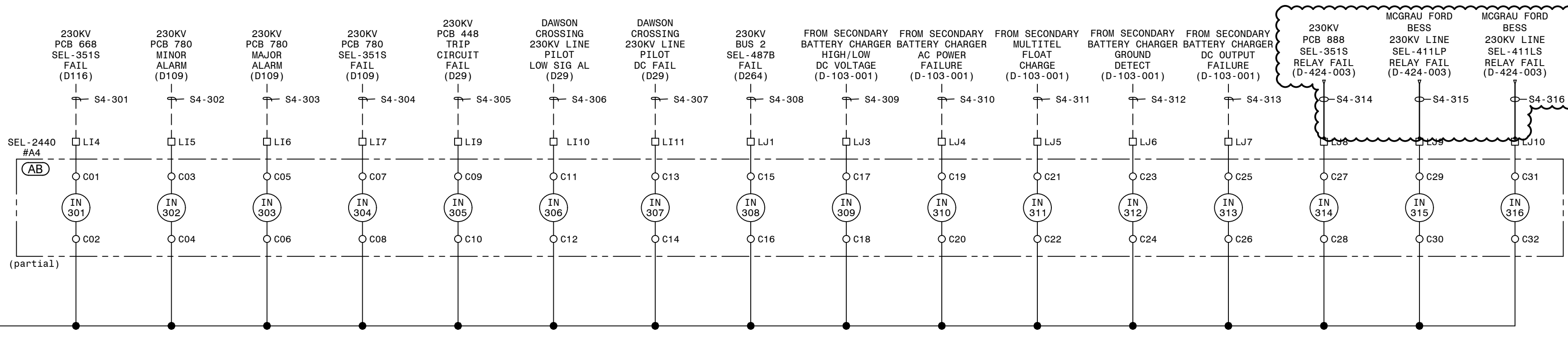
SEL-2440#A4 DIGITAL INPUTS



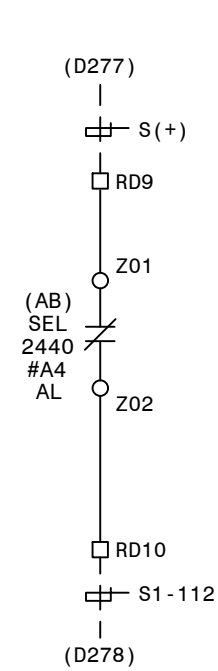
SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 ALARM



AUTOCAD ELECTRICAL  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.I.#1899807



REFERENCES:

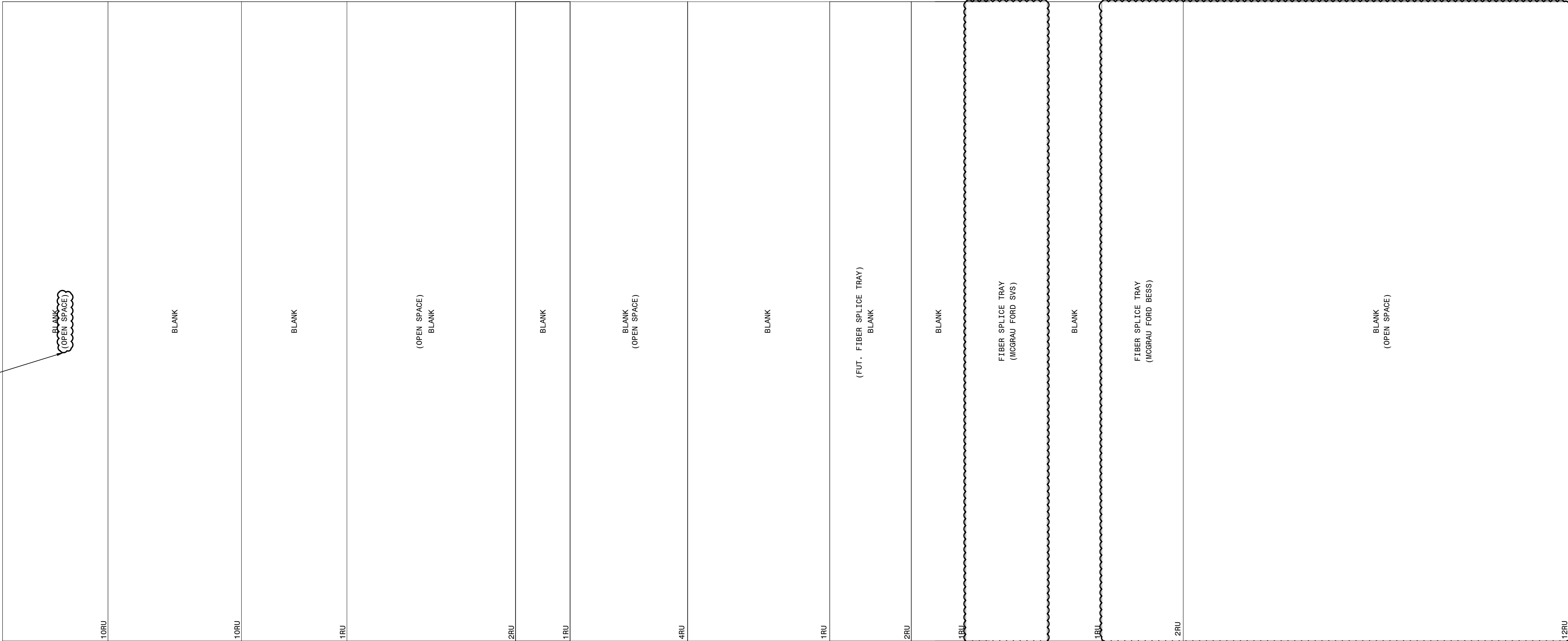
- |             |   |
|-------------|---|
| 01-173-B2   | PANEL #2 FRONT VIEW, TRANSMISSION SIA PANEL               |
| 01-173-D20  | PANEL #2 WIRING DIAGRAM, TRANSMISSION SIA PANEL           |
| 01-173-D186 | SIA COMMUNICATION CONNECTION DIAGRAM                      |
| 01-173-D291 | PANEL #2 ELEMENTARY DIAGRAM SH. 1, TRANSMISSION SIA PANEL |

<b>GEORGIA POWER</b> A SOUTHERN COMPANY		FACILITY NAME: <b>MCGR AU FORD TS</b>	
DRAWN: BAS		TITLE: PANEL #2 ELEMENTARY DIAGRAM SH. 2, TRANSMISSION SIA PANEL	
CHECKED: JWH	TYPE: SIA	FACILITY #:	NUMBER:
APPROVED: USPP	SCALE: N.T.S.	01-173	<b>D-292</b>
DATE: 3/23/2020	BOM:	SHEET: REV:	
ASC FAC:		- 001 - 03	
		ALT DWG NUM:	

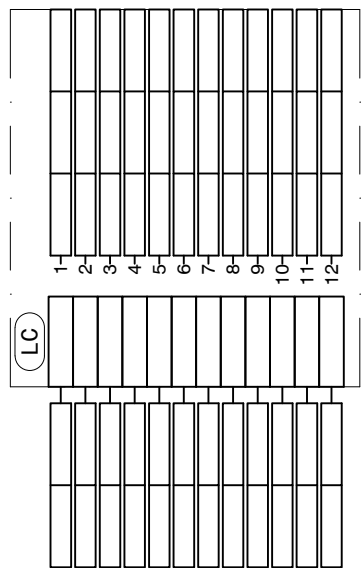
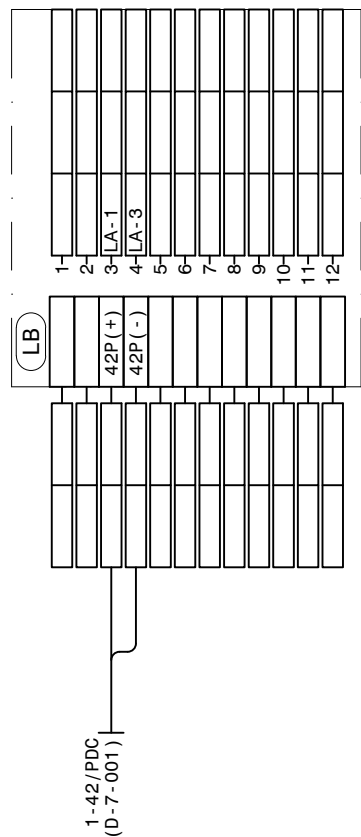
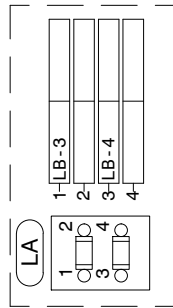
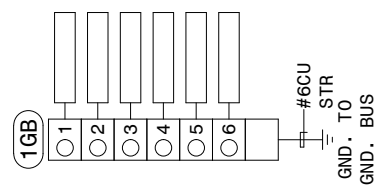




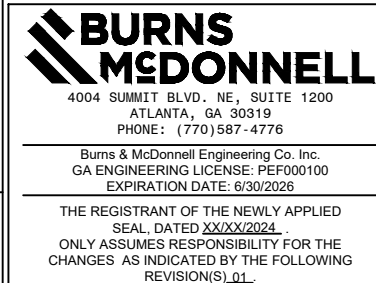
FOR REFERENCE



FOR REFERENCE



P.I.#1899807




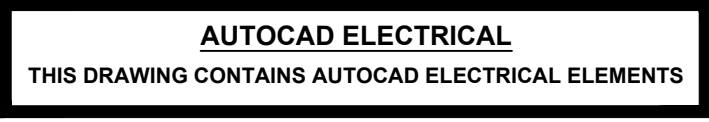
**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

NOTES:  
1. FOR SERIAL CONNECTIONS, SEE COMMUNICATION DIAGRAM D-186.

REFERENCES:  
01-173-D-330-001 PANEL #42 FRONT VIEW & NAMEPLATES  
01-173-D-330-003 PANEL #42 ELEMENTARY  
01-173-D-330-004 PANEL #42 FIBER SPLICE CONNECTIONS (SVS)  
01-173-D-330-005 PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAU FORD BESS)

SVS (AND MCGRAU FORD BESS) FIBER INTERFACE

 A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS			
		TITLE: PANEL #42, WIRING DIAGRAM - SVS (AND MCGRAU FORD BESS) FIBER INTERFACE			
DRAWN: BPE	TYPE: WD	FACILITY #: 01 - 173	NUMBER: D- 330	SHEET: REV: - 002 - 00	
CHECKED: BPE	SCALE: NTS				
APPROVED: 1930501	BOM:				
DATE: 05/31/2023	ASC FACS:		ALT DWG NUM:		



P. I. #1899807

**BURNS  
MCDONNELL**

4004 SUMMIT BLVD. NE, SUITE 1200  
ATLANTA, GA 30319  
PHONE: (770)587-4776


Burns & McDonnell Engineering Co. Inc.  
GA ENGINEERING LICENSE: PE#000100  
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED  
SEAL, DATED 05/06/2024,  
ONLY ASSUMES RESPONSIBILITY FOR THE  
CHANGES AS INDICATED BY THE FOLLOWING  
REVISIONS 01.

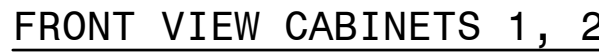
- LEGEND:**
- - SLIDING LINK TERMINALS  
OR PHEONIX PLUG
  - ⊗ - LED INDICATING LIGHT
  - - SWITCH SHOWN IN OFF POSN
- TYPICAL LABEL**
- 
- The diagram shows a typical terminal block label. It consists of a rectangular box divided into four horizontal sections. The top section is labeled 'WIRE LABEL' and contains the text 'P(+)' followed by a terminal symbol (a circle with a cross) and the number '1'. The second section is labeled 'DEVICE DESIGNATION' and contains the text '86' followed by a terminal symbol and the number '1'. The third section is labeled 'ELEM. SHEET NUMBER' and contains the text 'TT' followed by a terminal symbol and the number '1'. The bottom section is labeled 'WIRE LABEL' and contains the text 'TPZZ2' followed by a terminal symbol and the number '2'. To the right of the box, a bracket groups the numbers '1' and '2' and is labeled 'TERMINAL NUMBER'.

- REFERENCES:
- |                  |   |
|------------------|---|
| 01-173-D-330-001 | PANEL #42 FRONT VIEW & NAMEPLATES                     |
| 01-173-D-330-002 | PANEL #42 WIRING DIAGRAM                              |
| 01-173-D-330-004 | PANEL #42 FIBER SPLICE CONNECTIONS (SVS)              |
| 01-173-D-330-005 | PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAW FORD BESS) |

## SVS AND MCGRAU FORD BESS FIBER INTERFACE

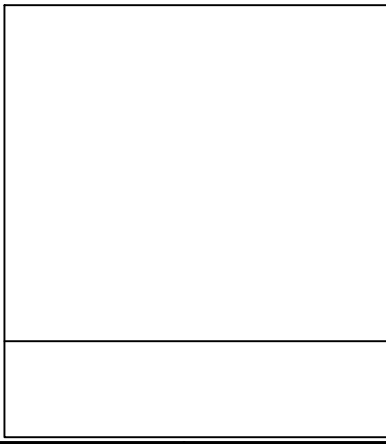
 <b>GEORGIA POWER</b> A SOUTHERN COMPANY	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: PANEL #42, DC ELEMENTARY DIAGRAM - SVS AND MCGRAU FORD BESS FIBER INTERFACE							
	DRAWN:	BPE	TYPE:	52	FACILITY #:		NUMBER:	
	CHECKED:	BPE	SCALE:	N. T. S.	01-173	<b>D-</b>	<b>330</b>	SHEET: REV:
	APPROVED:	1930501	BOM:					ASC - 003 - 00
DATE: 05/31/2023		ASC FACS:		ALT DWG NUM:				



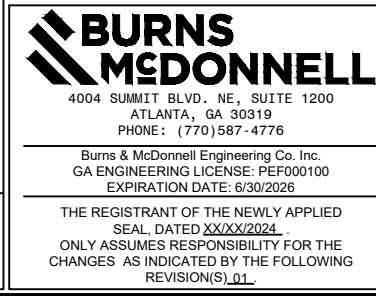


(SEE NOTE 1)								
FIBER NUMBER	FUNCTION (TX OR RX)	SCHEME	CABLE NAME	LOCAL CONNECTION	REMOTE DEVICE	MARK #	COLOR	BUFFER
1	SEL-421-TX	MCGRAU FORD - SVS (PRIMARY)	T0-43/F01	SEL-421 (PRIMARY)	SEL-487E (PRIMARY-SVS)		BLUE	BLUE
2	SEL-421-RX						ORANGE	
3	SEL-421-TX						GREEN	
4	SEL-421-RX						BROWN	
5	SEL-421-TX						GRAY	
6	SEL-421-RX						WHITE	
7	SEL-421-TX						RED	
8	SEL-421-RX						BLACK	
9							YELLOW	
10							PURPLE	
11							PINK	
12							CYAN	
13	SEL-311C-TX	MCGRAU FORD - SVS (SECONDARY)	T0-43/F02	SEL-311C (SECONDARY)	SEL-487E (SECONDARY-SVS)		BLUE	ORANGE
14	SEL-311C-RX						ORANGE	
15	SEL-311C-TX						GREEN	
16	SEL-311C-RX						BROWN	
17	SEL-311C-TX						GRAY	
18	SEL-311C-RX						WHITE	
19	SEL-311C-TX						RED	
20	SEL-311C-RX						BLACK	
21							YELLOW	
22							PURPLE	
23							PINK	
24							CYAN	

\* PROVIDED BY IT.



P.I.#1899807




**NOTE:**

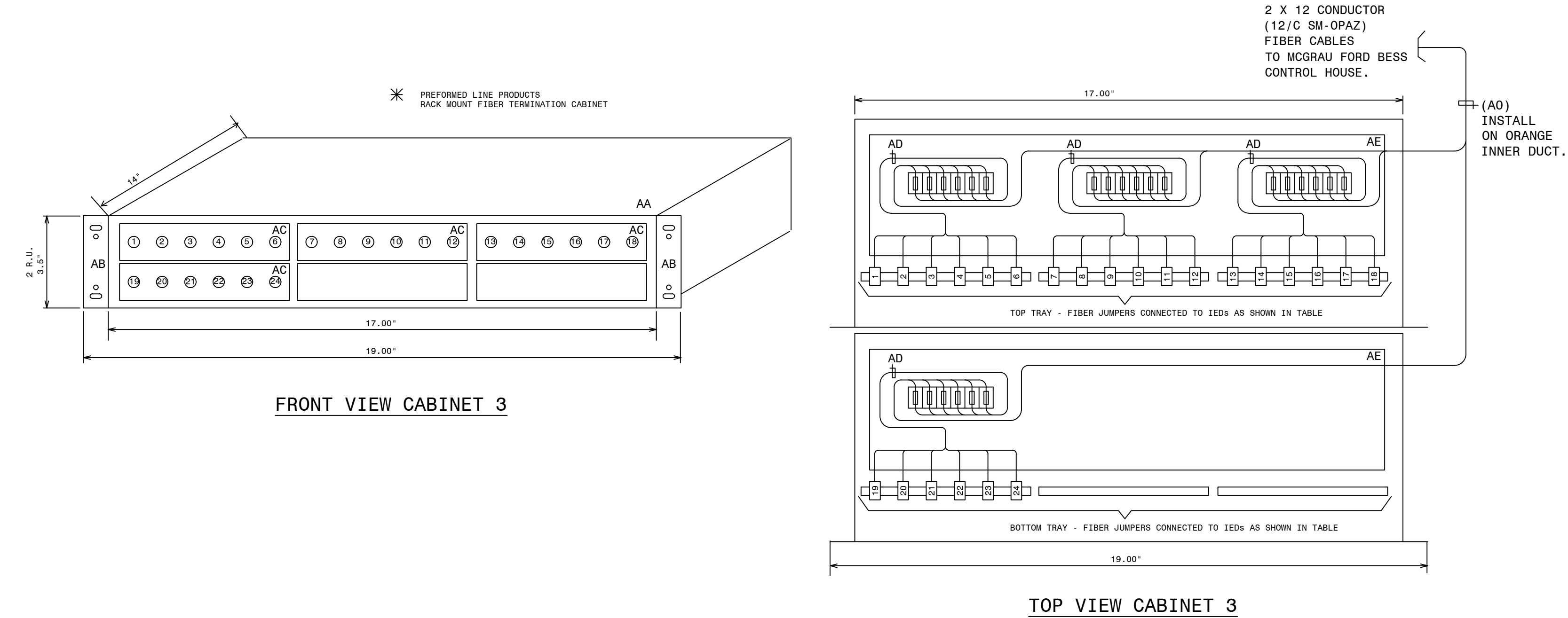
1. FUNCTION MUST BE REVERSED ON REMOTE END. IE - IF A1 IS CONNECTED TO TX ON THIS END IT MUST BE CONNECTED TO RX ON REMOTE END.
2. SEE SIA COMMUNICATION CONNECTION DIAGRAM D-186 FOR ADDITIONAL INFORMATION.
3. FIELD TO VERIFY FINAL FIBER INSTALLATION DETAILS.

REFERENCES:

01-173-D-330-001	PANEL #42 FRONT VIEW & NAMEPLATES
01-173-D-330-002	PANEL #42 WIRING DIAGRAM
01-173-D-330-003	PANEL #42 AC/DC ELEMENTARY
01-173-D-330-005	PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAW FORD BESS)

SVS FIBER INTERFACE

 <b>GEORGIA POWER</b> A SOUTHERN COMPANY	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: PANEL #42, FIBER SPLICE CONNECTIONS - SVS FIBER INTERFACE							
	DRAWN: BPE	TYPE: WD		FACILITY #:		NUMBER:		SHEET: REV:
	CHECKED: BPE	SCALE: N.T.S.		01-173		<b>D-330</b>		- 004 - 00
	APPROVED: 1930501	BOM:						
DATE: 05/31/2023	ASC FACS:							ALT DWG NUM:



(SEE NOTE 1)

TABLE A - FIBER PANEL 2 (FOP-3) FIBER JUMPER CONNECTIONS

FIBER NUMBER	FUNCTION (TX OR RX)	CABLE NAME	REMOTE DEVICE	REMOTE LOCATION	DWG REF	MARK #	COLOR	BUFFER
1	PRI RELAY RX	13-42/FIB1	SEL-411LP MCGRAU FORD BESS 230KV LINE	PANEL 13	D-424-002	OPDP	BLUE	BLUE
2	PRI RELAY TX						ORANGE	
3	SPARE						GREEN	
4	SPARE						BROWN	
5	SPARE						GRAY	
6	SPARE						WHITE	
7	SPARE						RED	ORANGE
8	SPARE						BLACK	
9	SPARE						YELLOW	
10	SPARE						PURPLE	
11	SPARE						PINK	
12	SPARE						CYAN	
13	SEC RELAY RX	13-42/FIB2	SEL-411LS MCGRAU FORD BESS 230KV LINE	PANEL 13	D-424-002	OPDP	BLUE	GREEN
14	SEC RELAY TX						ORANGE	
15	SPARE						GREEN	
16	SPARE						BROWN	
17	SPARE						GRAY	
18	SPARE						WHITE	
19	SPARE						RED	BROWN
20	SPARE						BLACK	
21	SPARE						YELLOW	
22	SPARE						PURPLE	
23	SPARE						PINK	
24	SPARE						CYAN	

✱

QTY	ITEM	MARK #	CMDTY #	DESCRIPTION	REMARKS
1	AA	OPCF	J-19763	PLP RDC6 RACK MOUNT CABINET ALLOWS UP TO 36 FIBER SPLICES AND CONNECTIONS	PLP MODEL # RDC6
1	AB	OPCJ	J-19773	MOUNTING BRACKET ASSEMBLY FOR MOUNTING RDC6 IN 19" RACK MOUNT PANEL	PLP MODEL # BKT2U19A
4	AC	OPCG	J-19767	PLP 6ISMST ST CONNECTOR SIX PACK	ST TO ST TERMINATION FOR 6 FIBERS
4	AD	OPCH	J-19770	FIBER PIGTAIL - MIC CABLE 6 FIBER, 2 METER ST-SM	PROVIDES SM-ST TERM. FOR 6 FIBERS.
1	AE	OPBD	J-19598	FIBER CABLE SPLICE TRAY - MOUNTS INTERNAL TO OPCF	PLP MODEL # 80805514
	AF	OPCP	J-19820	SINGLE MODE SIMPLEX JUMPER ST TO ST (1 METER)	
	AG	OPCQ	J-19821	SINGLE MODE SIMPLEX JUMPER ST TO ST (33 METER)	
	AH	OPCR	J-19803	SINGLE MODE DUPLEX JUMPER ST TO ST (1 METER)	
1	AI	OPCM	J-19804	SINGLE MODE DUPLEX JUMPER ST TO ST (2 METER)	
	AJ	OPDN	J-19805	SINGLE MODE DUPLEX JUMPER ST TO ST (5 METER)	
	AK	OPDA	J-19708	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (1 METER)	
	AL	OPDB	J-82075	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (2 METER)	
	AM	OPDC	J-81612	62.5 MICRON MULTIMODE DUPLEX FIBER JUMPER ST TO ST (5 METER)	
2	AN	OPDP	J-19864	SINGLE MODE DUPLEX JUMPER ST TO ST (20 METER)	
2	AO	OPAZ	J-19520	OPTICAL CABLE 12 FIBER SINGLE MODE	
	AP	OPBB	J-19549	OPTICAL CABLE 24 FIBER SINGLE MODE	

NOTE:  
1. FUNCTION MUST BE REVERSED ON REMOTE END. IE - IF A1 IS CONNECTED TO TX ON THIS END, IT MUST BE CONNECTED TO RX ON REMOTE END.

REFERENCES:  
D-330-001 PANEL #42 FRONT VIEW AND NAMEPLATES  
D-330-002 PANEL #42 WIRING DIAGRAM  
D-330-003 PANEL #42 ELEMENTARY DIAGRAM  
D-330-004 PANEL #42 FIBER SPLICE CONNECTIONS (SVS)



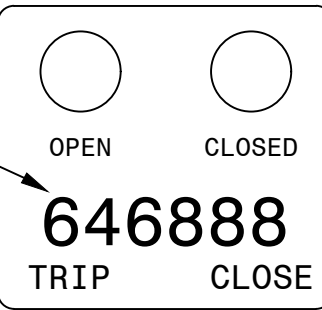
BESS FIBER INTERFACE

<b>GEORGIA POWER</b> A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
DRAWN: EG/BHCD		TITLE: PANEL #42, FIBER SPLICE CONNECTIONS - MCGRAU FORD BESS INTERFACE	
CHECKED: SW/BHCD	TYPE: WD	FACILITY #:	NUMBER:
APPROVED: P1#1899807	SCALE: N.T.S.	01-173	D-330
DATE: 9/23/2024	BOH:	ASC FACS:	ALT DWG NUM:
		SHEET: REV:	
		- 005 -- .A	



NAMEPLATE DETAILS			
NAMEPLATE NO.	FIRST LINE	SECOND LINE	THIRD LINE
1	PANEL NO. 13		DWG.01-173-D424
2	PANEL NO. 13		DWG.01-173-D424
3	351S7X RELAY	646888	CONTROL - BF/RCLS
4	351S7X RELAY	646888	CONTROL - BF/RCLS
5	BF C0	646888	
6	411L PRI RELAY	646888	MCGRAU FORD BESS 230KV LINE
7	411L PRI RELAY	646888	MCGRAU FORD BESS 230KV LINE
8	411L SEC RELAY	646888	MCGRAU FORD BESS 230KV LINE
9	411L SEC RELAY	646888	MCGRAU FORD BESS 230KV LINE

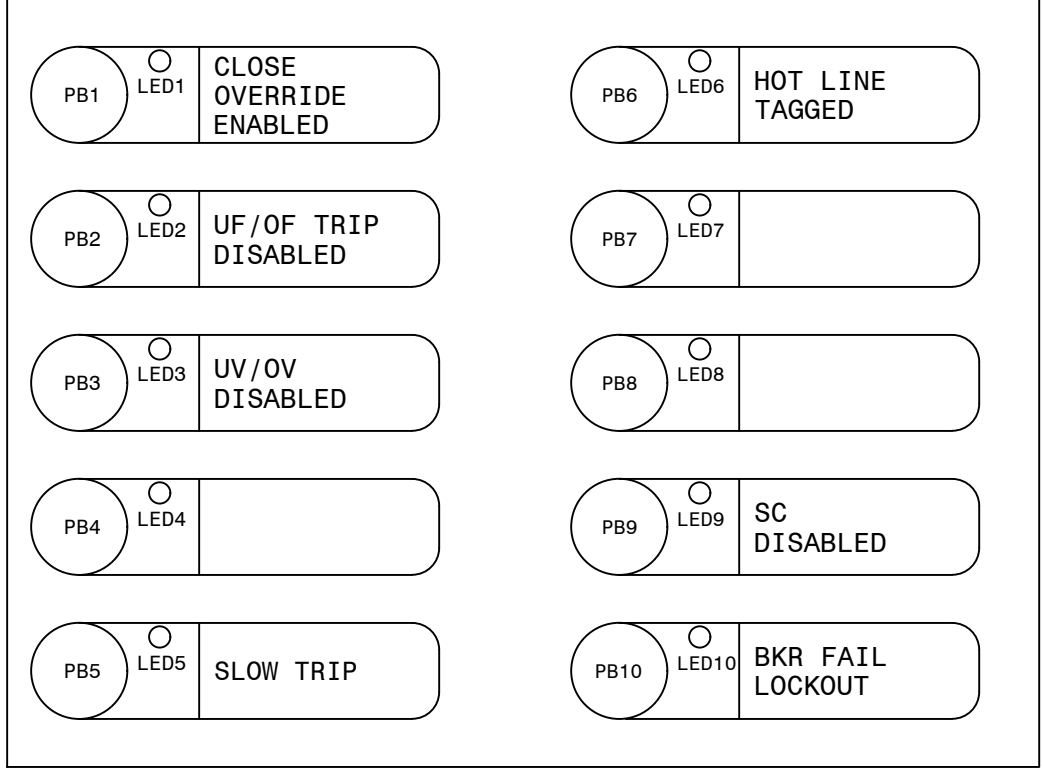
DETAIL A2  
(PCB 888 351S7X  
CONFIGURABLE LABELS)



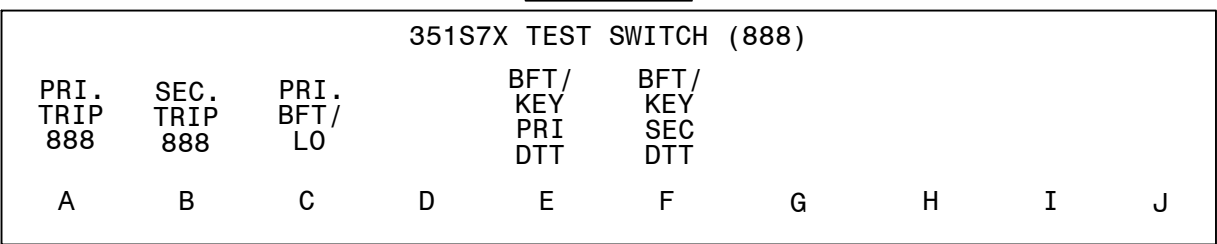
(36PT FONT)

QTY	ITEMS	CATALOG	DESCRIPTION	REMARKS
1	AA	RHCL-I	27IN X 90IN SWITCHBOARD PANEL (FULL RACK) WITH FRAME	DWG-PAN-CONST-D1, DWG-PAN-CONST-D2
6	AB	RGWT-I	RACK PANEL TYPE A 1-RACK UNIT	DWG-PAN-CONST-D1
1	AC	RGWU-I	RACK PANEL TYPE A 2-RACK UNITS	DWG-PAN-CONST-D1
5	AD	RGWV-I	RACK PANEL TYPE B 3-RACK UNITS	DWG-PAN-CONST-D1
1	AE	RLAK	SEL-351S7X	SEL-0351S7XHE4B5421
3	AF	RHUA	2-10 POLE TYPE FT-1 SWITCHES, POS.A:(T T T T T T T T T T),POS. B:(P P P C-C C-C C-P), POS C:(TOGGLE SWITCH CUTOFF)	ABB #SS3G036014S01M
1	AG	RHHS-I	SWITCH,TOGGLE,4P,DT,15A,115V.,.25A@125VDC	MICROSWITCH #4TL1-3
2	AH	RTIW	SEL-411L T/M LINE DIFF/STEP DIST WITH OC AND TRAVELING-WAVE FLT DET., 5RU	SEL #0411L1X6X5B8DHXHE424XX
10	AM	BJPE-I	12 POLE SLIDING LINK TERMINAL BLOCK	STATES ELECTRIC MFG: M-25012-T
1	AN	BAVD-I	COPPER NEUTRAL BAR GRD TERM, #4-#14	BURNDY: K12P4CG1
1	AP	FUPF	FUSE BLOCK, PHENOL,2-POLE,1-30A	BUSSMANN: H25030-2SR
3	AQ	FUPH	FUSE BLOCK, PHENOL,3-POLE,1-30A	BUSSMANN: H25030-3S
10	AR	RFYM	FUSE,CARTIDGE,1ELEM,NR,250V,6A	BUSSMANN: KTN-6J8-11630
2	AU	RFUT-I	REL-AUX, TRIP CURR IND. - TIR, 1.0A OPER., COIL 10A NOM.	ELECTROMAX #6319209
1	AV	RGWV-I	RACK PANEL TYPE B 4-RACK UNITS	DWG-PAN-CONST-D1
4	BF	RHKH-I	TRANSF-CURRENT 5A WINDOW 500MM, DFR/DME	UTILITY SYSTEMS INC: CTR-1001-17714813

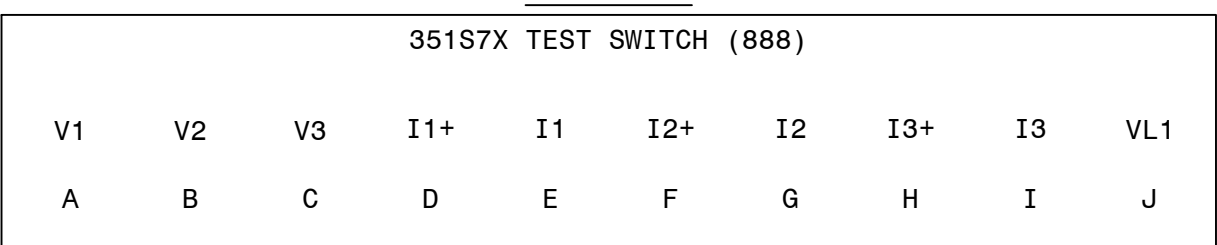
DETAIL A  
(351S7X CONFIGURABLE LABELS)



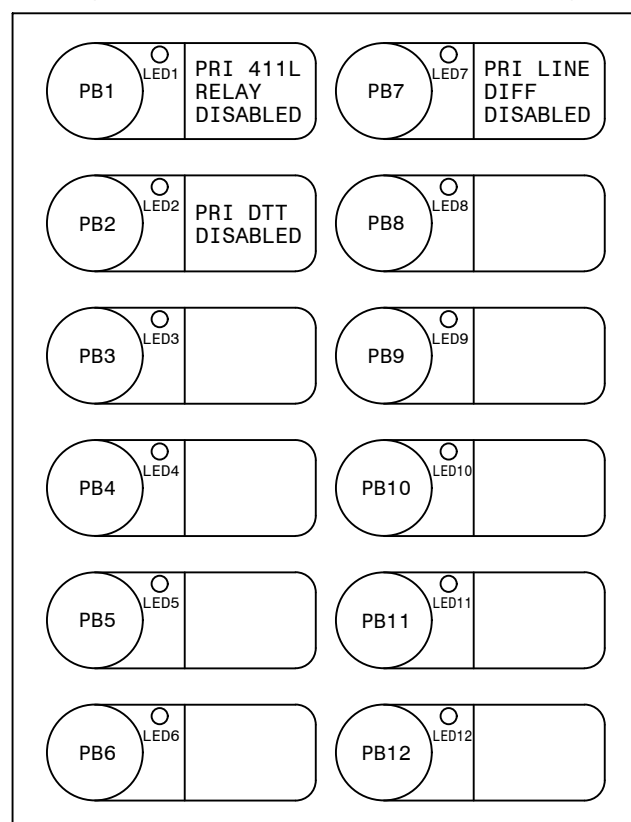
DETAIL B



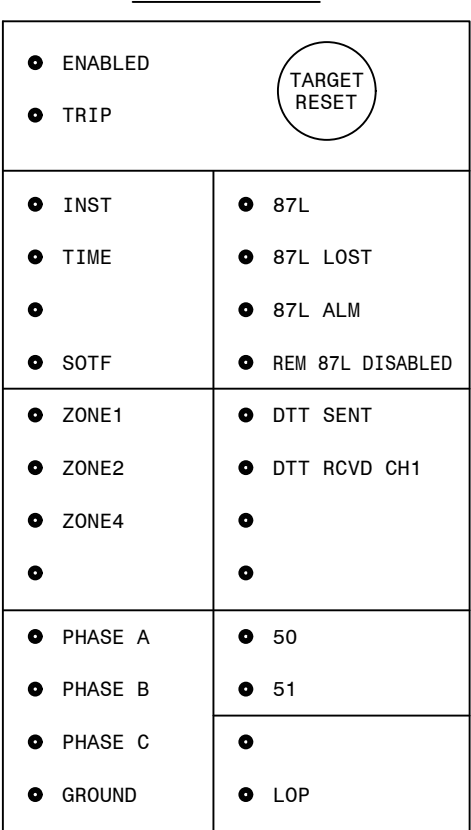
DETAIL C



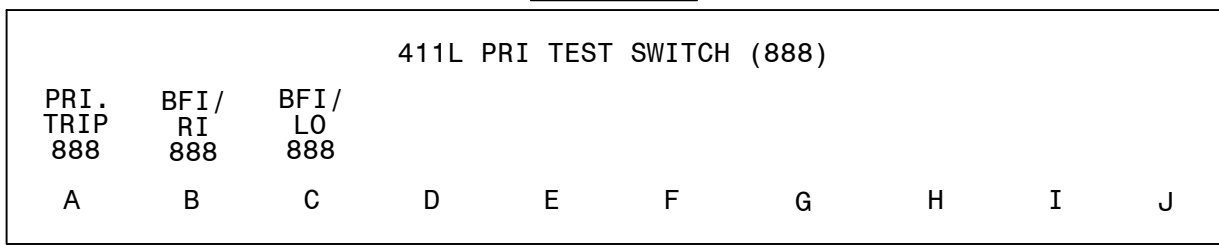
DETAIL D  
(411L PRI CONFIGURABLE LABELS)



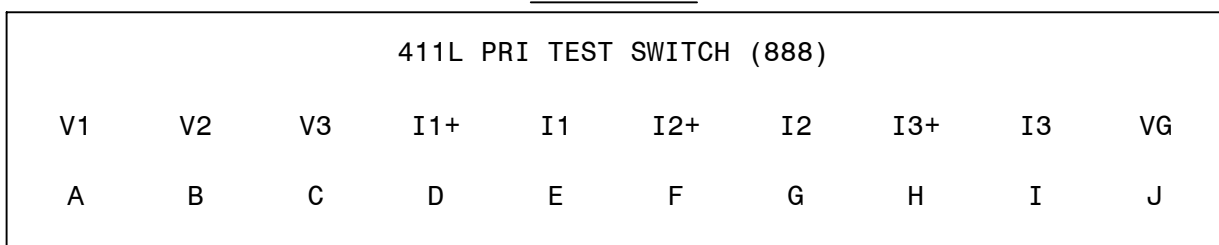
DETAIL D1



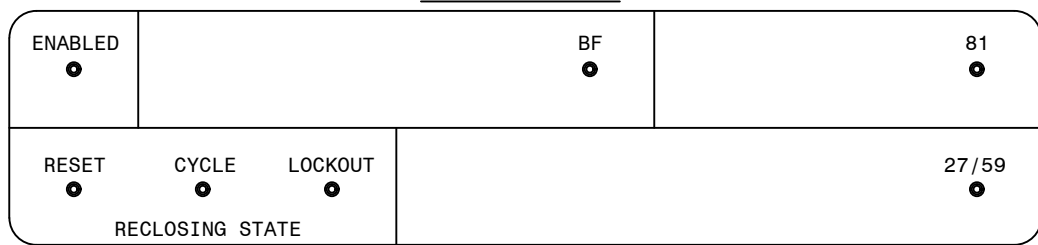
DETAIL E



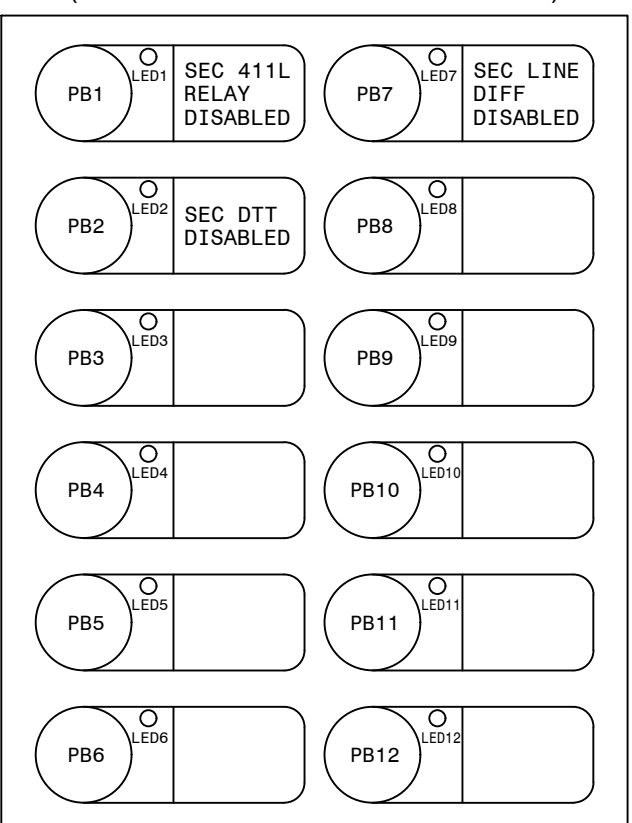
DETAIL F



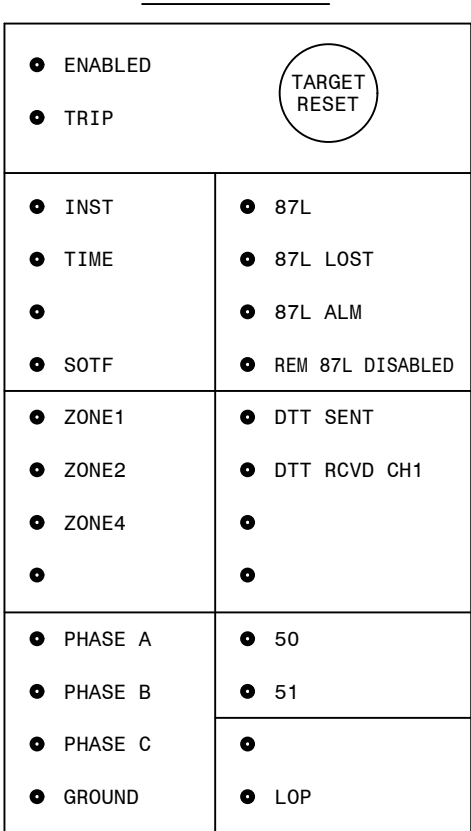
DETAIL A1



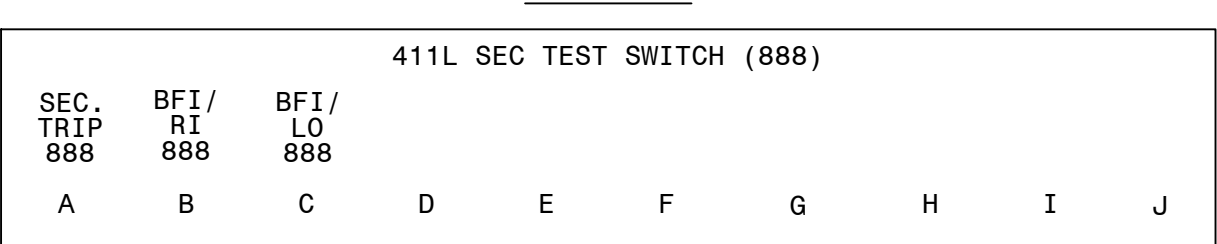
DETAIL G  
(411L SEC CONFIGURABLE LABELS)



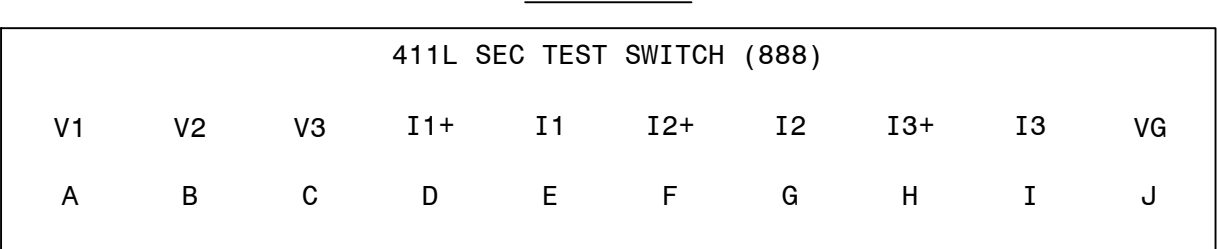
DETAIL G1



DETAIL H



DETAIL I



REFERENCES:

- D-424-002 PANEL 13 WIRING DIAGRAM
- D-424-003 PANEL 13 DC ELEMENTARY DIAGRAM
- D-424-004 PANEL 13 AC ELEMENTARY DIAGRAM
- D-424-005 PANEL 13 LOGIC DIAGRAM (411L PRI)
- D-424-006 PANEL 13 LOGIC DIAGRAM (411L SEC)
- D-424-007 PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

NOTES:

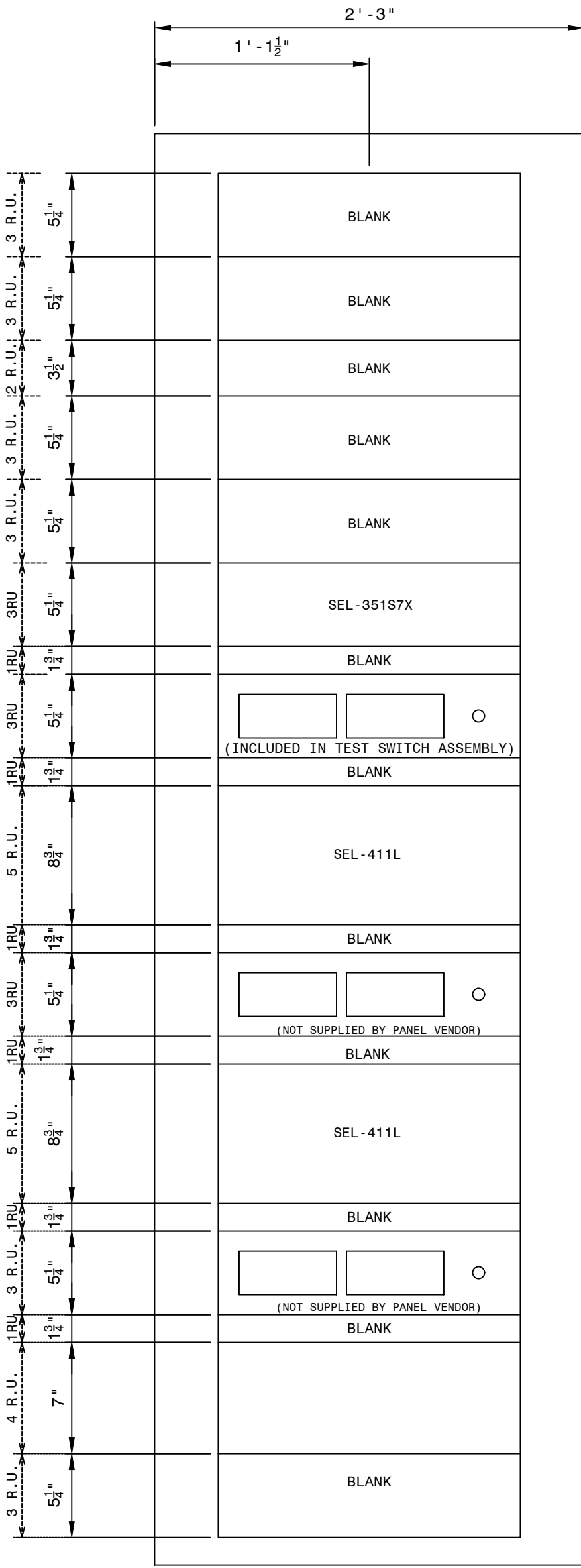
- 1. SLIDING LINKS TO OPEN TOWARD INTERNAL WIRING SIDE.

AUTOCAD ELECTRICAL

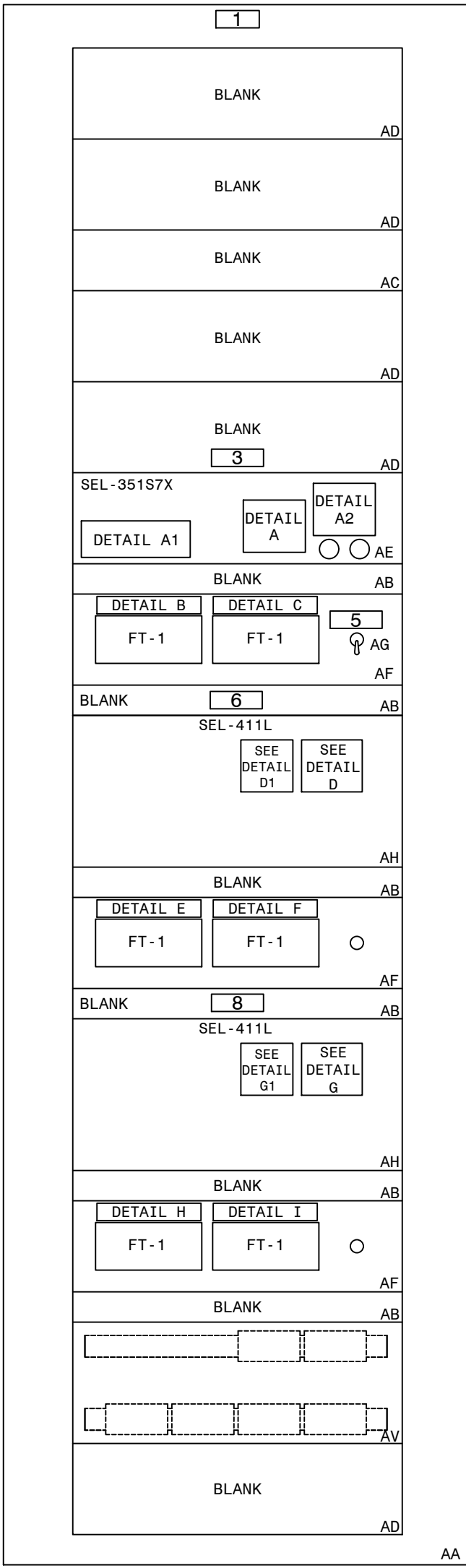
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

PANEL 13, FRONT VIEW, TRANS. LINE 87L/DTT FIBER, STR. BUS

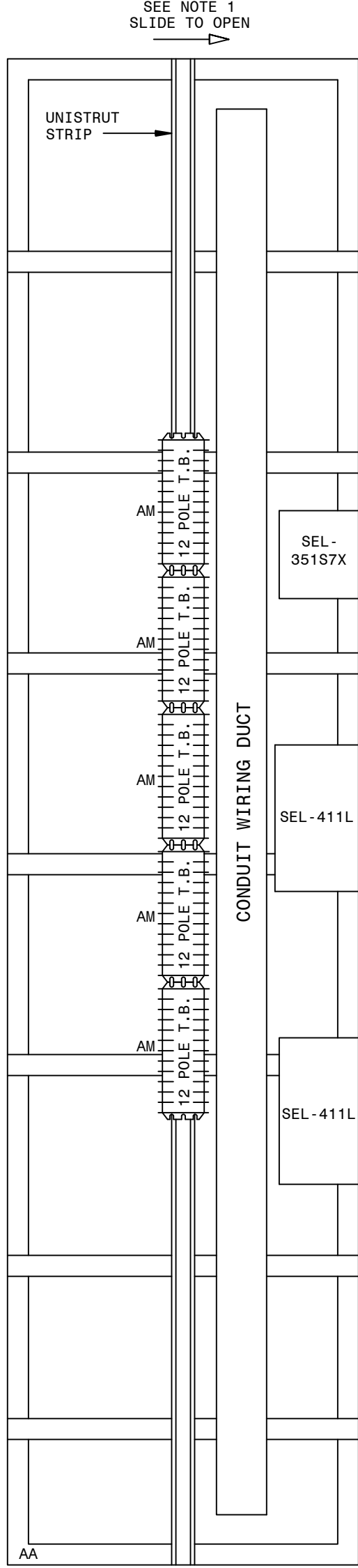
GEORGIA POWER A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
DRAWN: EG/BHCD		TITLE: PANEL NO.13, FRONT VIEW - MC. FORD BESS 230KV LINE SEL411L (PRI-FIB LINE DIFF/DIST.), SEL411L (SEC-FIB LINE DIFF/DIST.), SEL351S (BF/RCLS)	
CHECKED: SW/BHCD		TYPE: FV	
APPROVED: PI#1899007		FACILITY #: 01-173	
DATE: 7/31/2024		SHEET: 424	
ASC FACs:		REV: -001--.A	
		ALT DWG NUM:	



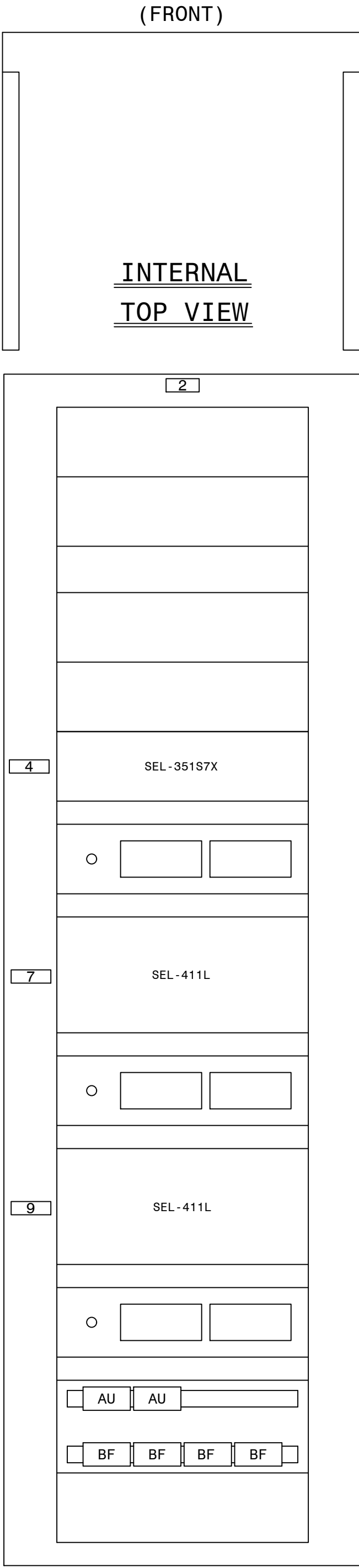
FRONT PANEL  
(PUNCH MARKS)



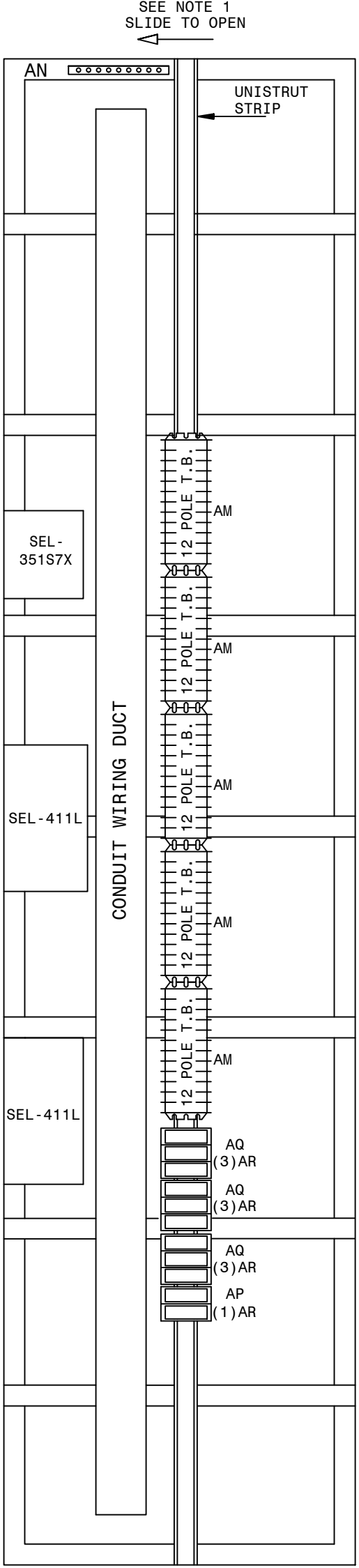
FRONT PANEL  
(NAMEPLATES AND  
MATERIAL MARKS)



LEFT REAR



REAR PANEL  
(INTERNAL PANEL,  
REAR VIEW)



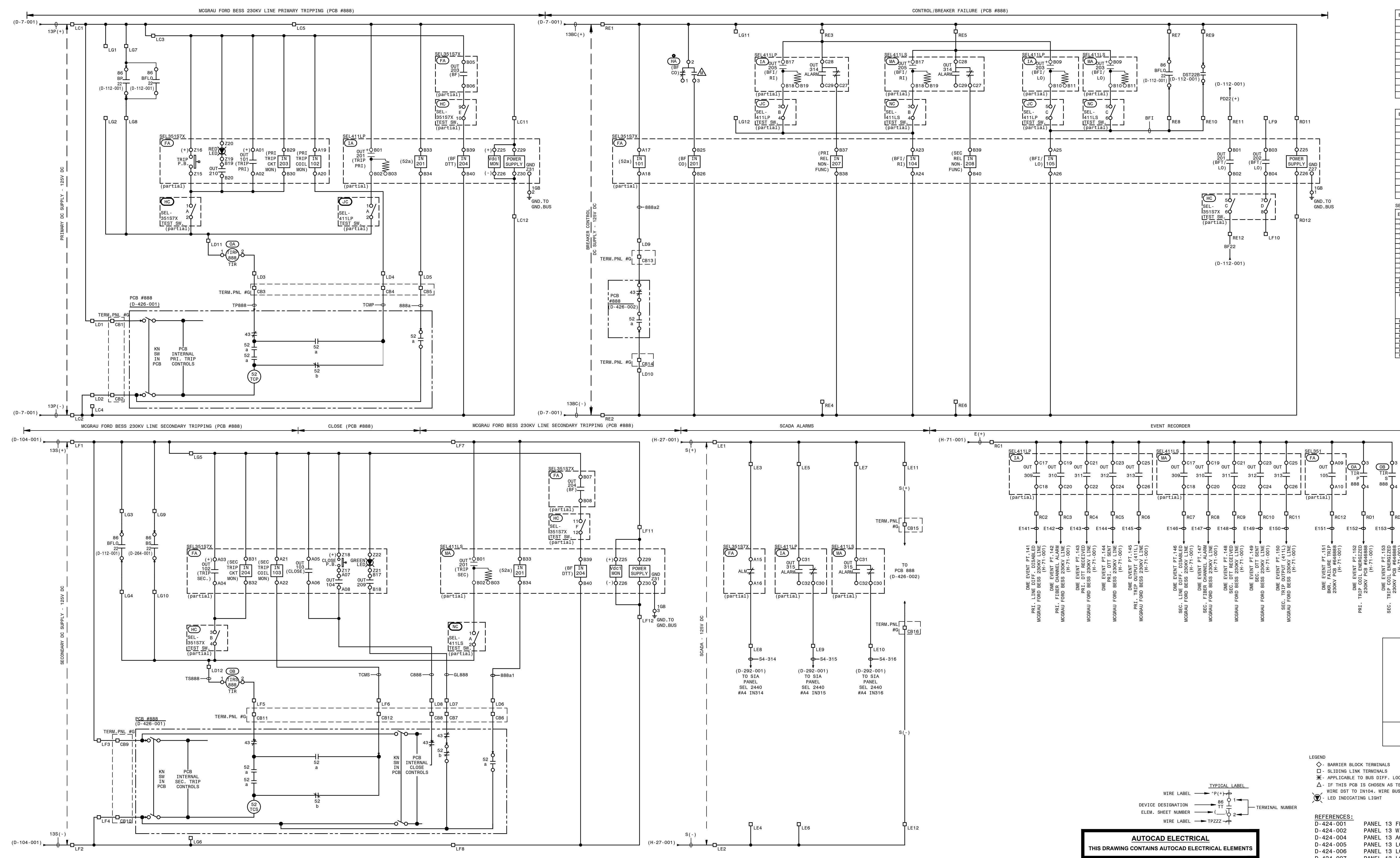
RIGHT REAR

LNP-SELPR-D-32-001-06









SEL 411LP (PRI. LINE DIFF) I/O ASSIGNMENTS	
ELEMENT	FUNCTION
IN201	BREAKER 52a INPUT PCB #888
IN204	BF DTT/PERMISSIVE TRIP PCB #888
OUT201	TRIP (PCB #888 PRI. TRIP COIL)
OUT203	BF INITIATE / LOCKOUT (PCB #888)
OUT205	BF/RECLOSE INITIATE (PCB #888)
OUT309	PRI. LINE DIFF. DISABLED (DME)
OUT310	PRI. FIBER CHANNEL ALARM (DME)
OUT311	PRI. DTT RECEIVED (DME)
OUT312	PRI. DTT SENT (DME)
OUT313	PRI. TRIP OUTPUT (DME)
OUT314	RELAY NON-FUNCTIONAL
OUT315	RELAY FAILURE ALARM

SEL 411LS (SEC. LINE DIFF) I/O ASSIGNMENTS	
ELEMENT	FUNCTION
IN201	BREAKER 52a INPUT PCB #888
IN204	BF DTT/PERMISSIVE TRIP PCB #888
OUT201	TRIP (PCB #888 SEC. TRIP COIL)
OUT203	BF INITIATE / LOCKOUT (PCB #888)
OUT205	BF/RECLOSE INITIATE (PCB #888)
OUT309	SEC. LINE DIFF. DISABLED (DME)
OUT310	SEC. FIBER CHANNEL ALARM (DME)
OUT311	SEC. DTT RECEIVED (DME)
OUT312	SEC. DTT SENT (DME)
OUT313	SEC. TRIP OUTPUT (DME)
OUT314	RELAY NON-FUNCTIONAL
OUT315	RELAY FAILURE ALARM

SEL 351S7X (CONTROL/BF/RCLS) I/O ASSIGNMENTS	
ELEMENT	FUNCTION
IN101	BREAKER 52a INPUT
IN102	PRIMARY TRIP COIL MONITOR
IN103	SECONDARY TRIP COIL MONITOR
IN104	PROTECTIVE RELAY TRIP (BF1/RI)
IN105	EXTERNAL LOR TRIP INPUT (BF1/LO)
IN201	BREAKER FAILURE OUTPUT
IN203	PRI. TRIP CIRCUIT MONITOR
IN204	SEC. TRIP CIRCUIT MONITOR
IN205	PHASE 2 LINE VOLTAGE INPUT
IN206	PHASE 3 LINE VOLTAGE INPUT
IN207	MCGRAU FORD BESS SEC. PROT. RELAY NON-FUNCTIONAL
IN208	MCGRAU FORD BESS SEC. PROT. RELAY NON-FUNCTIONAL
OUT101	TRIP (PRIMARY TRIP COIL)
OUT102	TRIP (SECONDARY TRIP COIL)
OUT103	CLOSE
OUT104	PERMITS "BIG RED BUTTON" CLOSE IF NO HOT LINE TAG IS APPLIED AND IF BREAKER TRIP COIL, RELAY SELF-TEST ARE OKAY, & NO BF LOR OR OTHER LOR'S INPUTS ASSERTED
OUT105	BKR. FAIL. TRIP DME
OUT201	BKR. FAIL. TRIP & LOCKOUT PRI. BUS DIFF
OUT202	BKR. FAIL. TRIP & LOCKOUT SEC. BUS DIFF (NOT USED)
OUT203	BF TIME KEY DTT/ANTI-ISLANDING TO MCGRAU FORD BESS
OUT204	BF TIME KEY DTT/ANTI-ISLANDING TO MCGRAU FORD BESS
OUT209	OPENS GREEN LED ON RELAY
OUT210	OPENS RED LED ON RELAY
OUTALM	RELAY FAILURE ALARM

BF CO		MAINTAINED POSITIONS	
TOGGLE SWITCH MICRO SWITCH NS24525-23		REMOTE	LOCAL
CONTACTS		CLOSED	OPEN
$\overline{C1}$	$\overline{C2}$	1-2	X
$\overline{C1}$	$\overline{C2}$	2-3	X
$\overline{C1}$	$\overline{C2}$	4-5	X
$\overline{C1}$	$\overline{C2}$	7-8	X
$\overline{C1}$	$\overline{C2}$	8-9	X
$\overline{C1}$	$\overline{C2}$	10-11	X
$\overline{C1}$	$\overline{C2}$	11-12	X

- LEGEND
- ◇ BARRIER BLOCK TERMINALS
  - SLIDING LINK TERMINALS
  - \* APPLICABLE TO BUS DIFF. LOCKOUT SCHEMES NO AUTO RESTORATION
  - △ IF THIS PCB IS CHOSEN AS TEST PCB FOR AUTO RESTORATION, DO NOT WIRE DDT TO IN104. WIRE BUS 86BP & BUS 86BS TO IN105.
  - LED INDICATING LIGHT

- REFERENCES:
- D-424-001 PANEL 13 FRONT VIEW AND NAMEPLATES
  - D-424-002 PANEL 13 WIRING DIAGRAM
  - D-424-004 PANEL 13 AC ELEMENTARY DIAGRAM
  - D-424-005 PANEL 13 LOGIC DIAGRAM (411L PRI)
  - D-424-006 PANEL 13 LOGIC DIAGRAM (411L SEC)
  - D-424-007 PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

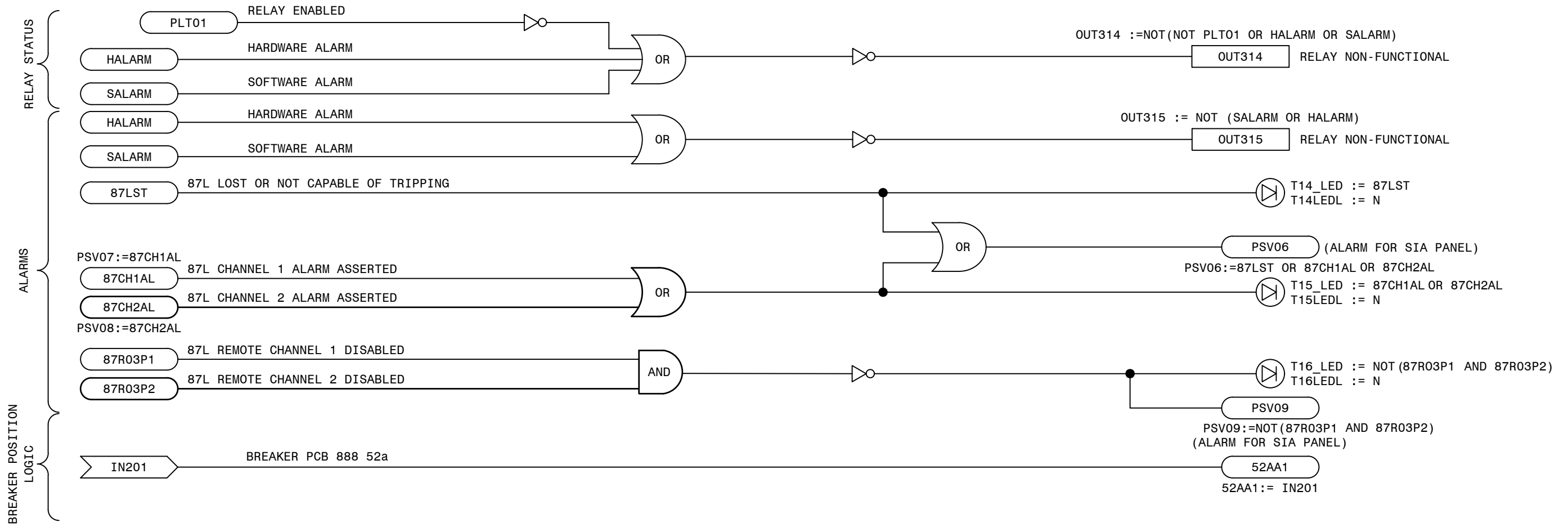
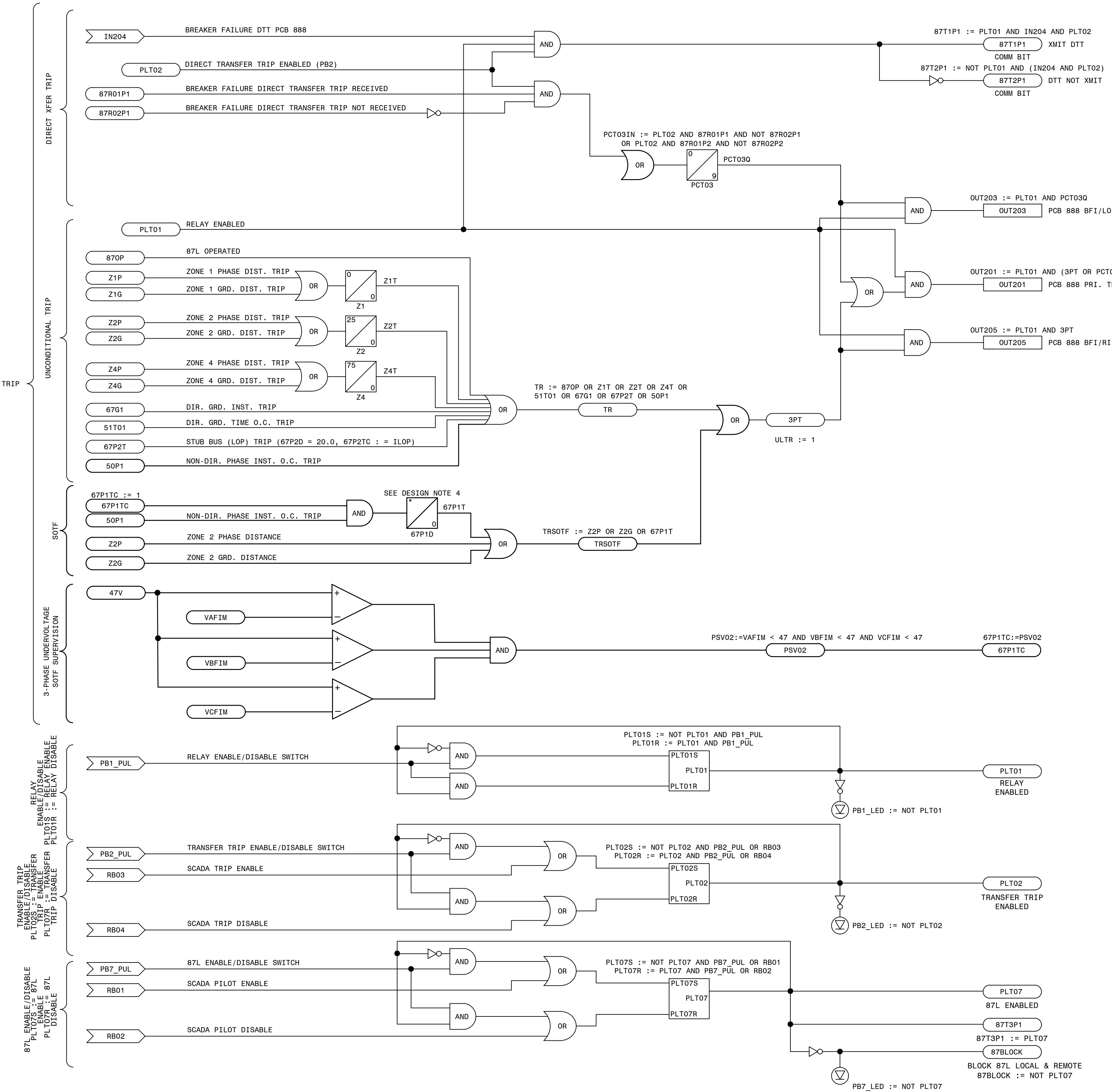
**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

PANEL 13, DC ELEMENTARY, TRANS. LINE D87L/DTT FIBER, STR. BUS

P1:		P1:		P1:		P1:		P1:		P1:		P1:		P1:	
<div><div><div><b>GEORGIA POWER</b> A SOUTHERN COMPANY</div><div>CHECKED: EG/BMCD APPROVED: PI#1898907 DATE: 7/31/2024</div></div><div><div>TITLE: PANEL NO.13, DC ELEM. - MC. FORD BESS 230KV LINE SEL411L (PRI-FIB LINE DIFF/DIST.), SEL411L (SEC-FIB LINE DIFF/DIST.), SEL351S (BF/RCLS)</div><div>FACILITY #: 01-173</div><div>NUMBER: <b>D-424</b></div><div>SHEET: REV: -003--.A</div></div><div>ASC FACS: ALT DWG NUM:</div></div>															







- LEGEND:
- xxxx SEL INTERNAL RELAY ELEMENT OR SETTING (IF RECESSED IT WAS DEVELOPED ON THIS SHEET)
  - xxxx EXTERNAL INPUT, PUSHBUTTON OR REMOTE BIT
  - xxxx SEL RELAY OUTPUT
  - xx xx xx SEL TIMER (IN CYCLES)
  - NOT (INVERT INPUT)

- REFERENCES:
- D-424-001 PANEL 13 FRONT VIEW AND NAMEPLATES
  - D-424-002 PANEL 13 WIRING DIAGRAM
  - D-424-003 PANEL 13 DC ELEMENTARY DIAGRAM
  - D-424-004 PANEL 13 AC ELEMENTARY DIAGRAM
  - D-424-006 PANEL 13 LOGIC DIAGRAM (411L SEC)
  - D-424-007 PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

ALIAS NOTES:

THE FOLLOWING LIST PROVIDES ALTERNATE LOGIC EQUATIONS IF ELEMENT ALIASES ARE NOT USED.

- T2\_LED := PCT01Q AND NOT (TLED\_1 OR TLED\_4)
- T5\_LED := (Z1P OR Z1G OR 67G1) AND NOT (TLED\_6 OR TLED\_7)
- T6\_LED := (Z2P OR Z2G) AND NOT (Z1P OR Z1G OR 67G1 OR TLED\_5 OR TLED\_7)
- T7\_LED := (Z3P OR Z3G) AND NOT (Z1P OR Z2P OR Z1G OR Z2G OR 67G1 OR TLED\_5 OR TLED\_6)
- T21\_LED := (67G1 OR 67P1) AND NOT TLED\_22
- T22\_LED := 51S1T AND NOT (67G1 OR 67P1 OR TLED\_21)

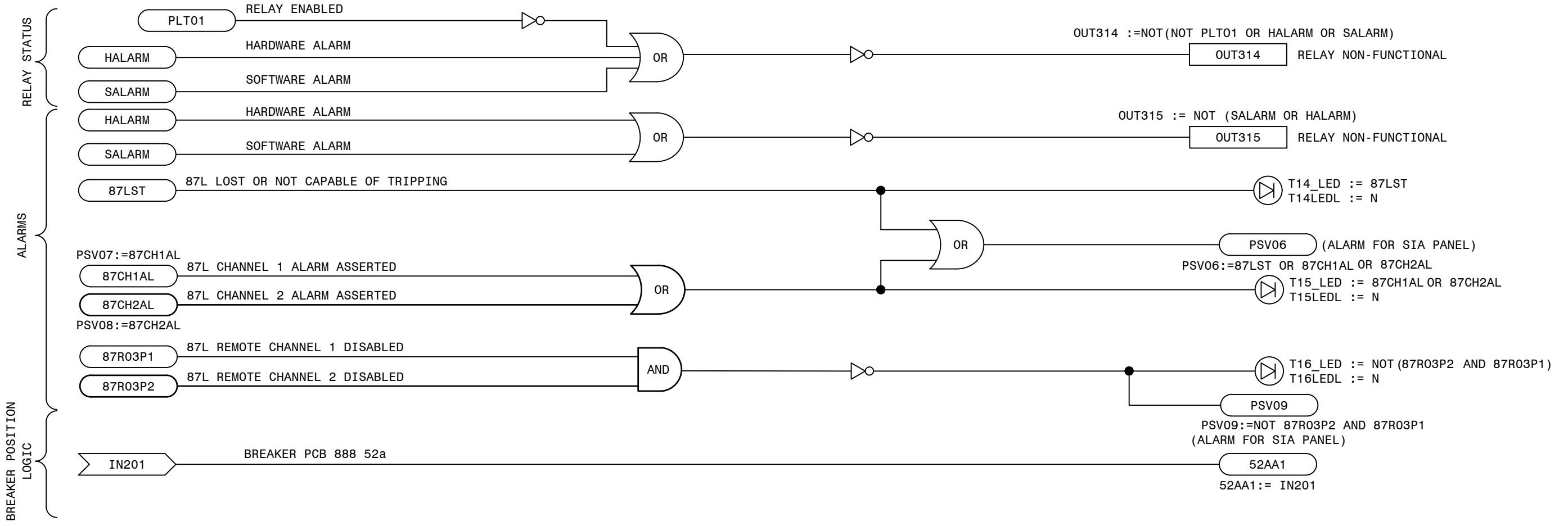
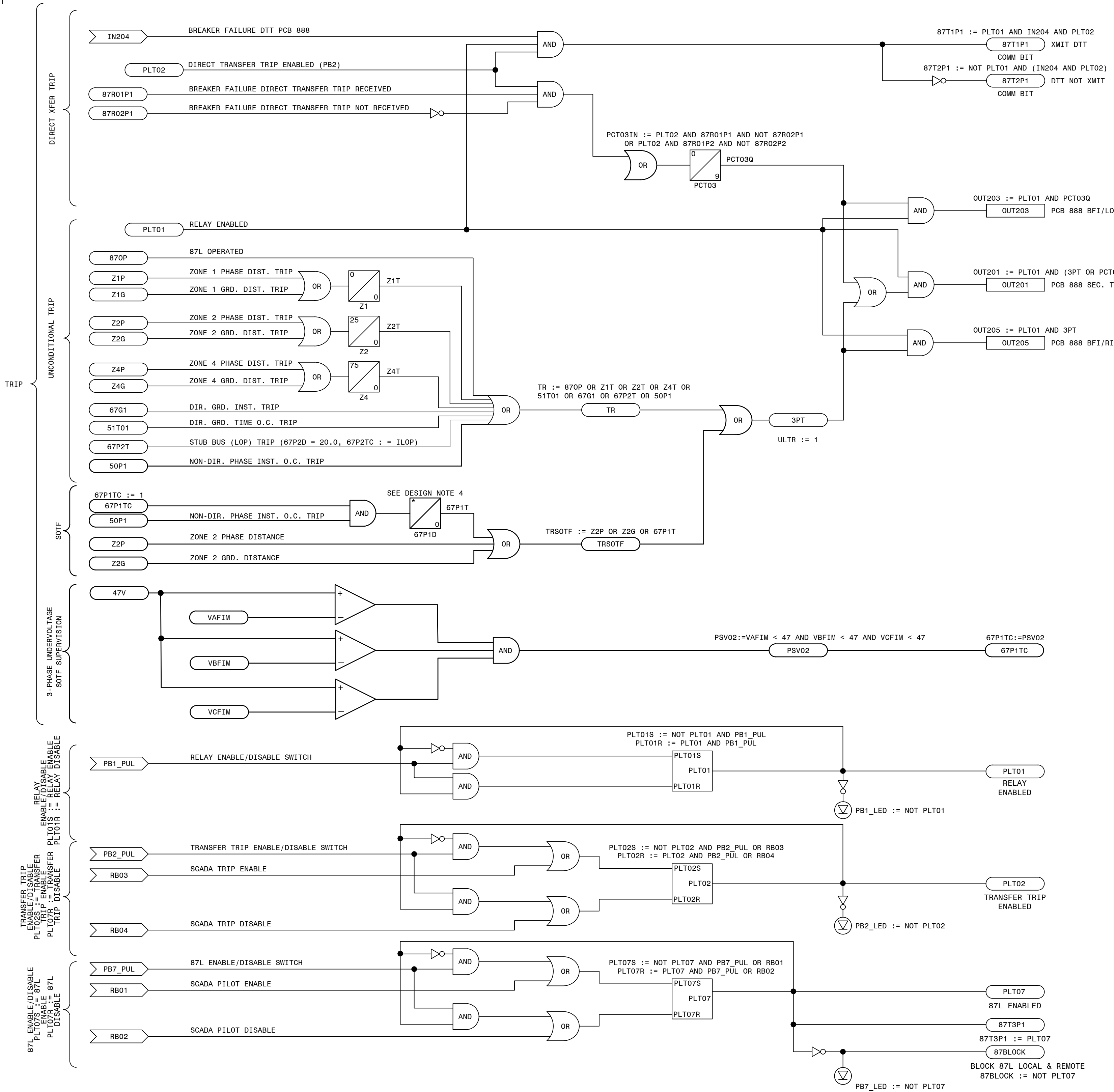
PRELIMINARY DESIGN  
INFORMATION CONTAINED WITHIN THIS PRELIMINARY  
DESIGN PACKAGE IS SUBJECT TO CHANGE.  
\*\*\*NOT FOR CONSTRUCTION\*\*\*

TRANS. LINE PRIMARY 87L/DTT FIBER LOGIC - STRAIGHT BUS

<b>GEORGIA POWER</b> SOUTHERN COMPANY	FACILITY NAME: <b>MCGR AU FORD TS</b>		
	TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGR AU FORD BESS 230KV LINE SEL411L (PRI-FIB. LINE DIFF/DIST.), STRAIGHT BUS		
	CHECKED: SW/BMCD	TYPE: 52L	FACILITY #:
	APPROVED: PI#1899007	SCALE: N.T.S.	01-173
	DATE: 7/31/2024	ASC FAC:	ALT DWG NUM:

NUMBER: <b>424</b>	SHEET: REV:
<b>D-005 -- .A</b>	





- LEGEND:
- XXXX SEL INTERNAL RELAY ELEMENT OR SETTING (IF RECESSED IT WAS DEVELOPED ON THIS SHEET)
  - XXXX EXTERNAL INPUT, PUSHBUTTON OR REMOTE BIT
  - XXXX SEL RELAY OUTPUT
  - XX PU XX DO SEL TIMER (IN CYCLES)
  - NOT (INVERT INPUT)

- REFERENCES:
- D-424-001 PANEL 13 FRONT VIEW AND NAMEPLATES
  - D-424-002 PANEL 13 WIRING DIAGRAM
  - D-424-003 PANEL 13 DC ELEMENTARY DIAGRAM
  - D-424-004 PANEL 13 AC ELEMENTARY DIAGRAM
  - D-424-005 PANEL 13 LOGIC DIAGRAM (411L PRI)
  - D-424-007 PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

ALIAS NOTES:

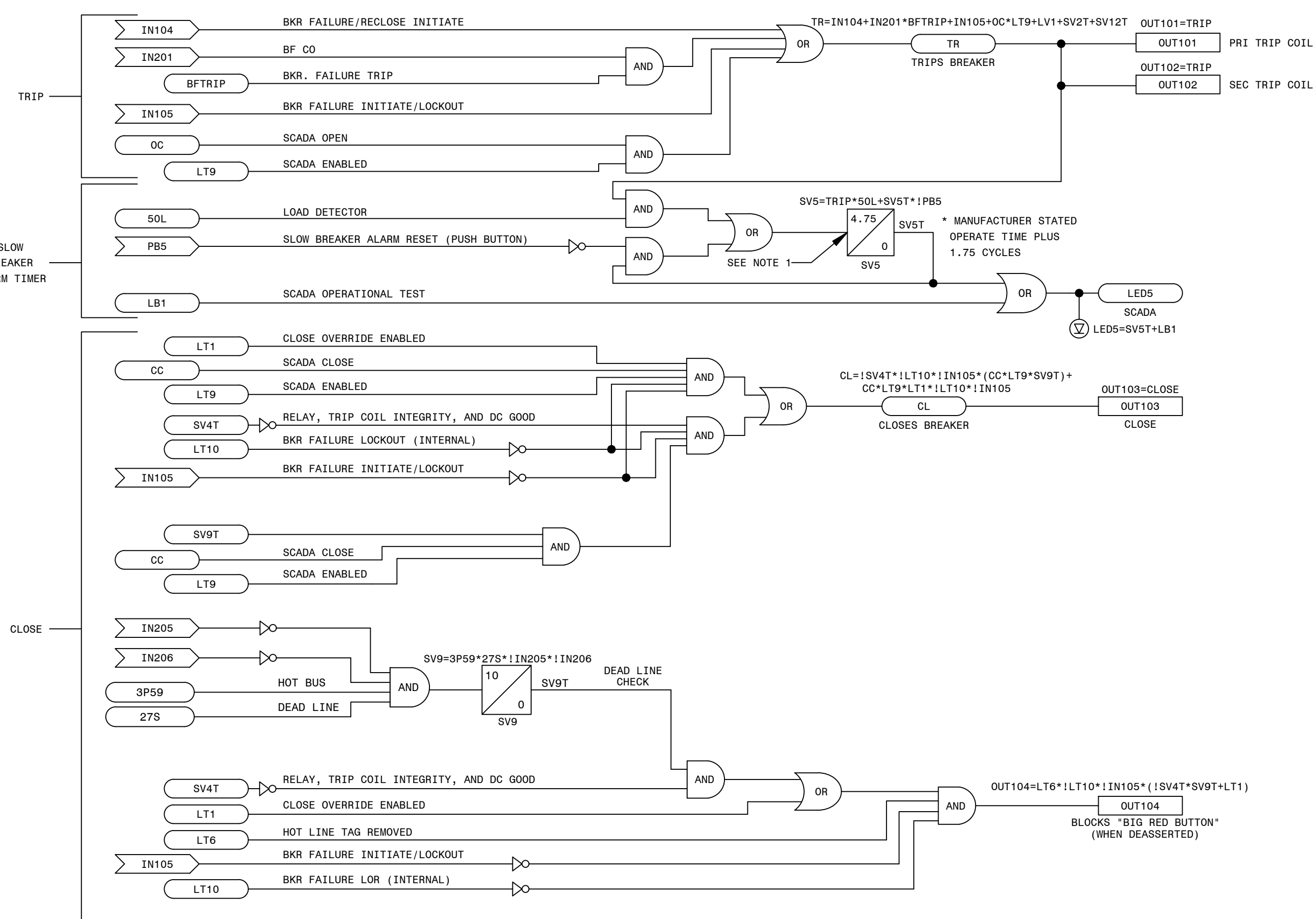
THE FOLLOWING LIST PROVIDES ALTERNATE LOGIC EQUATIONS IF ELEMENT ALIASES ARE NOT USED.

- T2\_LED := PCT01Q AND NOT (TLED\_1 OR TLED\_4)
- T5\_LED := (Z1P OR Z1G OR 67G1) AND NOT (TLED\_6 OR TLED\_7)
- T6\_LED := (Z2P OR Z2G) AND NOT (Z1P OR Z1G OR 67G1 OR TLED\_5 OR TLED\_7)
- T7\_LED := (Z3P OR Z3G) AND NOT (Z1P OR Z2P OR Z1G OR Z2G OR 67G1 OR TLED\_5 OR TLED\_6)
- T21\_LED := (67G1 OR 67P1) AND NOT TLED\_22
- T22\_LED := 51S1T AND NOT (67G1 OR 67P1 OR TLED\_21)


PRELIMINARY DESIGN  
INFORMATION CONTAINED WITHIN THIS PRELIMINARY  
DESIGN PACKAGE IS SUBJECT TO CHANGE.  
\*\*\*NOT FOR CONSTRUCTION\*\*\*

TRANS. LINE SECONDARY 87L/DTT FIBER LOGIC - STRAIGHT BUS

<b>GEORGIA SOUTHERN POWER</b>	FACILITY NAME: MCGRAY FORD TS		
	TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRAY FORD BESS 230KV LINE SEL411L (SEG-FIB. LINE DIFF/DIST.), STRAIGHT BUS		
	CHECKED: SW/BMCD	TYPE: 52L	FACILITY #:
	APPROVED: PJ#1899807	SCALE: N.T.S.	NUMBER: 01-173
	DATE: 7/31/2024	ASC FACS:	ALT DWG NUM:



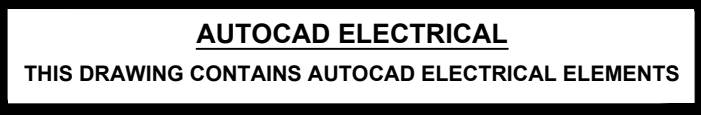
D-424-001	PANEL 13 FRONT VIEW AND NAMEPLATES
D-424-002	PANEL 13 WIRING DIAGRAM
D-424-003	PANEL 13 DC ELEMENTARY DIAGRAM
D-424-004	PANEL 13 AC ELEMENTARY DIAGRAM
D-424-005	PANEL 13 LOGIC DIAGRAM (411L PRI)
D-424-006	PANEL 13 LOGIC DIAGRAM (411L SEC)

 <b>GEORGIA POWER</b> <small>a southern company</small>	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRAU FORD 230KV LINE SEL951S (BF/RCLS) REL., STRAIGHT BUS							
	DRAWN: EG/BWCD	TYPE: 52L	FACILITY #:	D-424		NUMBER:	SHEET:	REV:
	CHECKED: SW/BMCD	SCALE: N.T.S.	01-173			424	- 007	-- A
	APPROVED: P1#1899807	BOM:	ASC FACS:		ALT DWG NUM:			
DATE: 7/31/2024								









**P. I. #1899807**

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**BURNS  
MCDONNELL**


4004 SUMMIT BLVD. NE, SUITE 1200  
ATLANTA, GA 30319  
PHONE: (770)587-4776

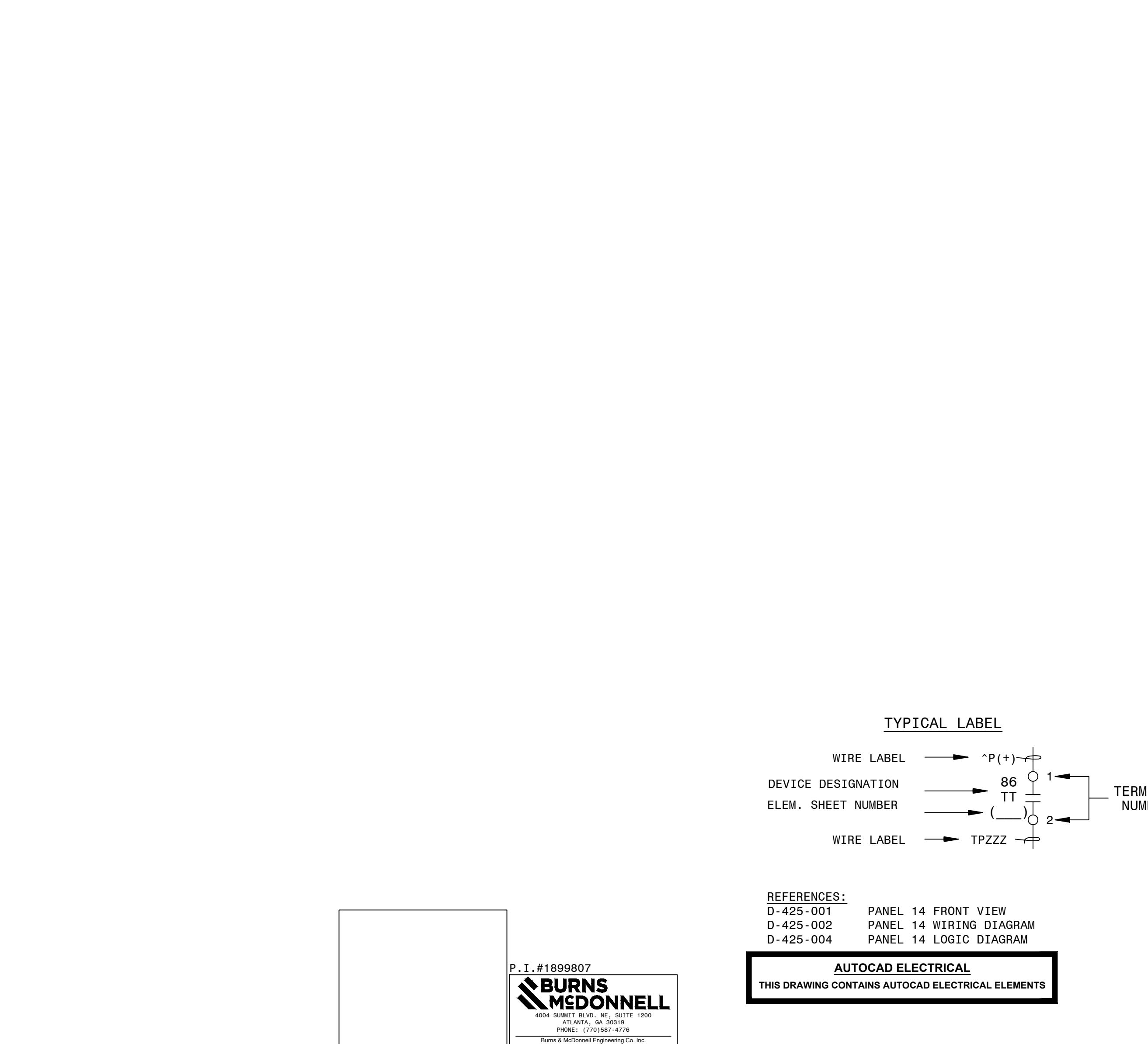
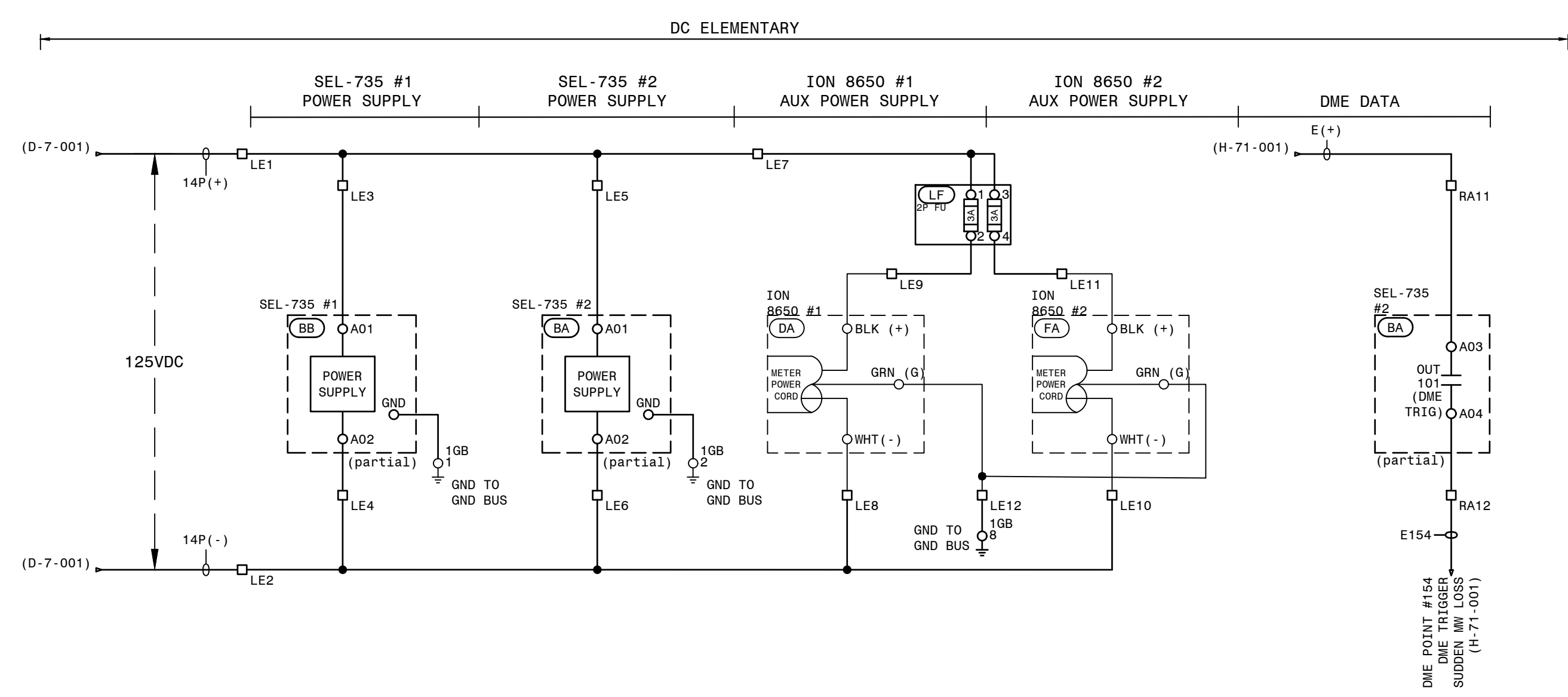
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Burns & McDonnell Engineering Co. Inc.  
GA ENGINEERING LICENSE: PE000100  
EXPIRATION DATE: 6/30/2026

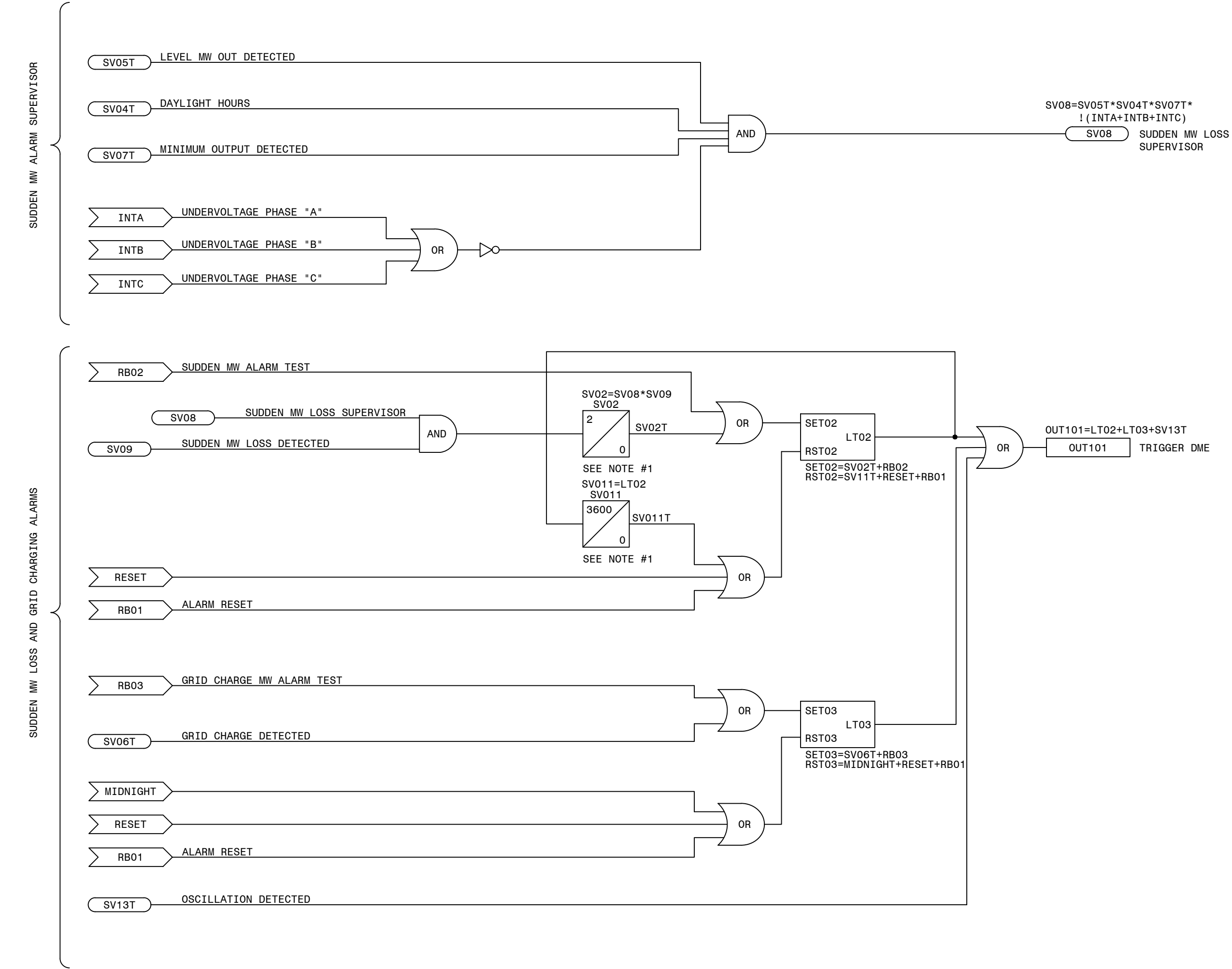
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THE REGISTRANT OF THE NEWLY APPLIED  
SEAL DATED XX/XX/2024,  
ONLY ASSUMES RESPONSIBILITY FOR THE  
CHANGES AS INDICATED BY THE FOLLOWING  
REVISIONS/LD.

 <p><b>GEORGIA POWER</b> A SOUTHERN COMPANY</p>	FACILITY NAME:		MCGRAU FORD TS	
	TITLE: PANEL NO.14, WIRING DIAGRAM - TRANSMISSION REVENUE AND PQ METERING			
	DRAWN: EG/BMCD			
	CHECKED: SW/BMCD	TYPE: VD	FACILITY #:	NUMBER:
	APPROVED: PIH1899807	SCALE: N.T.S.	01-173	<b>D- 425</b>
DATE: 8/14/2024	BOM:			SHEET: REV:
	ASC FACS:		ALT DWG NUM:	- 002 - .A

[illegible]

SUDDEN MW LOSS



NOTE:  
1. SEL-735P TIMER UNITS ARE SECONDS.

LEGEND:

XXXX SEL INTERNAL RELAY ELEMENT OR SETTING  
(IF RECESSED IT WAS DEVELOPED ON THIS SHEET)

XXXX EXTERNAL INPUT, PUSHBUTTON OR REMOTE BIT

XXXX SEL RELAY OUTPUT

XX  
PU  
XX  
DO SEL TIMER (IN CYCLES)

NOT (INVERT INPUT)

REFERENCES:  
D-425-001 PANEL 14 FRONT VIEW  
D-425-002 PANEL 14 WIRING DIAGRAM  
D-425-003 PANEL 14 AC/DC ELEMENTARY

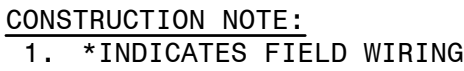
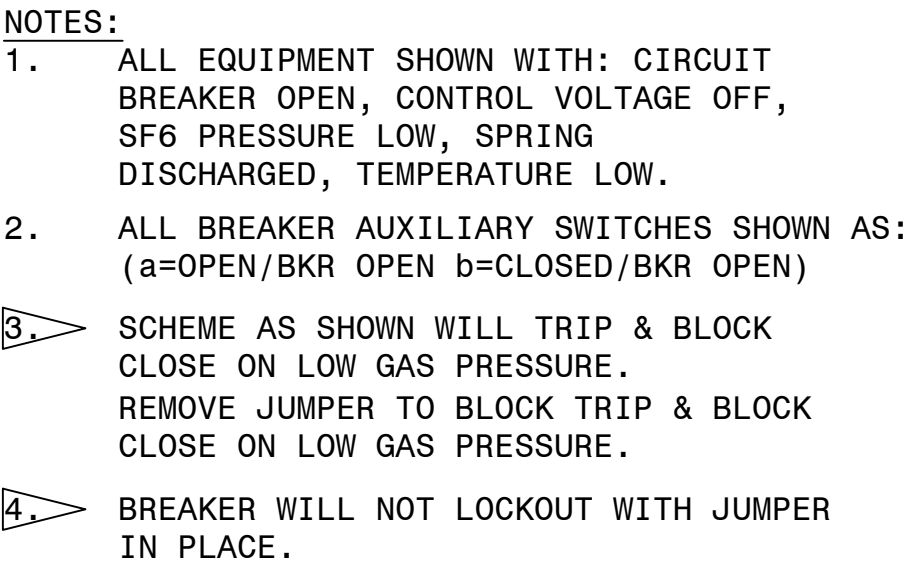
PRELIMINARY DESIGN  
INFORMATION CONTAINED WITHIN THIS PRELIMINARY  
DESIGN PACKAGE IS SUBJECT TO CHANGE.  
\*\*\*NOT FOR CONSTRUCTION\*\*\*

LOGIC DIAGRAM, TRANS. REVENUE & PQ METERING PANEL 14

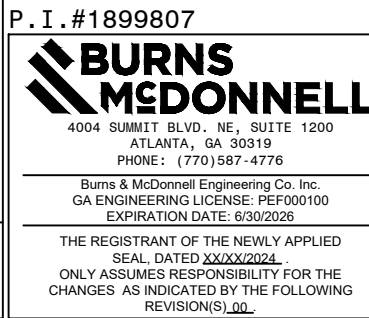
<div><div><div>GEORGIAPOWER</div><div><small>SOUTHERN COMPANY</small></div></div></div>	FACILITY NAME: MCGRAU FORD TS	
DRAWN: EG/BMCD	TITLE: PANEL NO.14, LOGIC DIAGRAM - TRANSMISSION REVENUE AND POWER QUALITY METERING	
CHECKED: SW/BMCD	TYPE: S2L	FACILITY #:
APPROVED: PI#1899807	SCALE: N.T.S.	01 - 173
DATE: 8/14/2024	BOM:	NUMBER: 425
ASC FACs:		SHEET: REV: - 004 -- .A
ALT DWG NUM:		

SGEN-POM\_D-1-004-00






REFERENCES			
D-426-002	230KV PCB 646888	(CO.#B19453)	ELEMENTARY DIAGRAM SH.2
D-426-003	230KV PCB 646888	(CO.#B19453)	WIRING DIAGRAM
D-426-004	230KV PCB 646888	(CO.#B19453)	BCT WIRING DIAGRAM & NAMEPLATE
D-426-005	230KV PCB 646888	(CO.#B19453)	NAMEPLATE & GAS SYSTEM

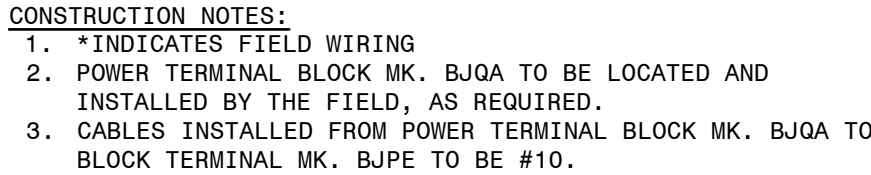


**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS


 <p><b>GEORGIA POWER</b> SOUTHERN COMPANY</p>	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.1							
	DRAWN: EG/BMCD		TYPE: 92		FACILITY #:		NUMBER:	
	CHECKED: SW/BMCD		SCALE: N.T.S.		01-173		426	
	APPROVED: PT#189807		BOM:		DSC		SHEET: REV: - 001 - -	
DATE: 12/17/2024		ASC FACS:		ALT DWG NUM:				



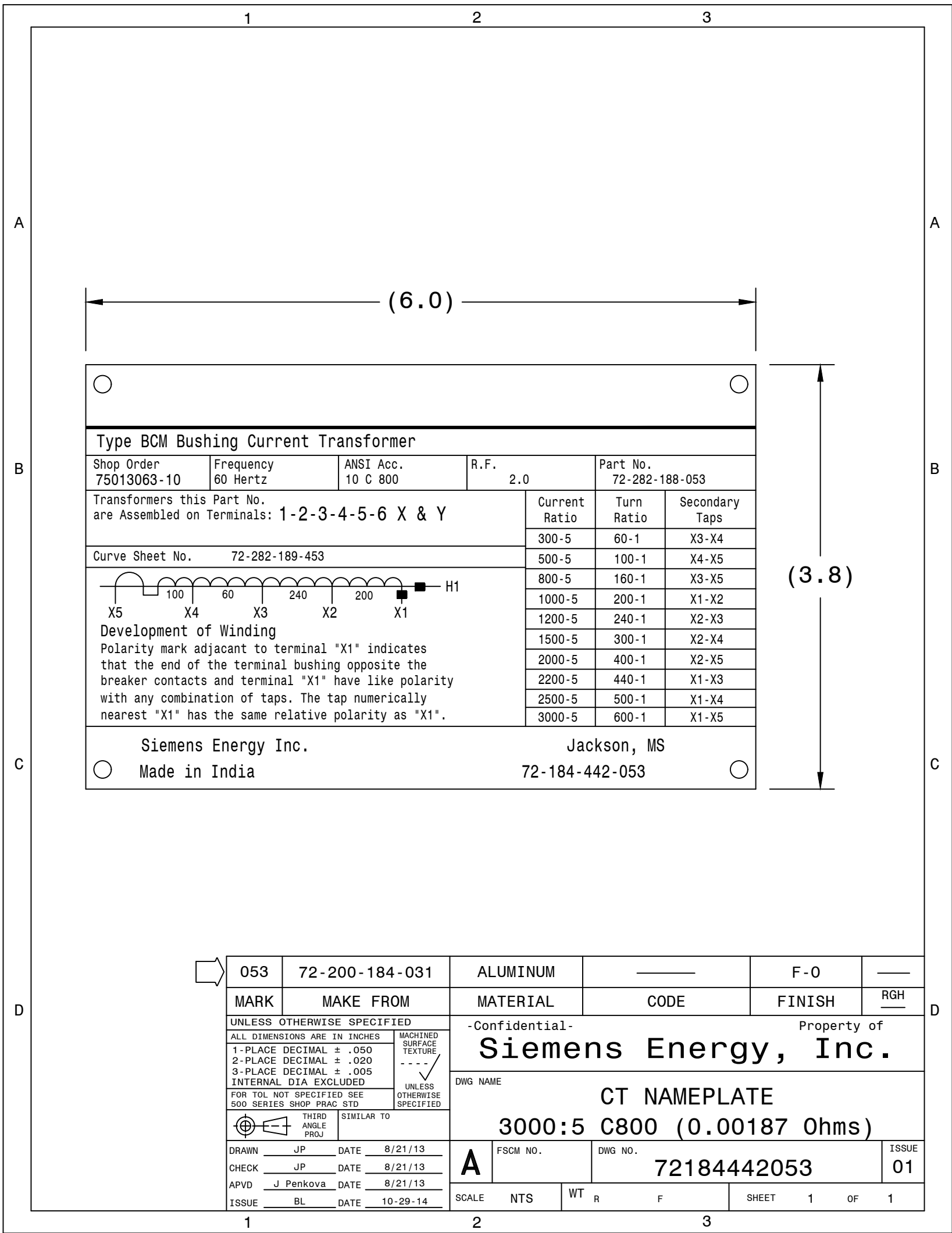
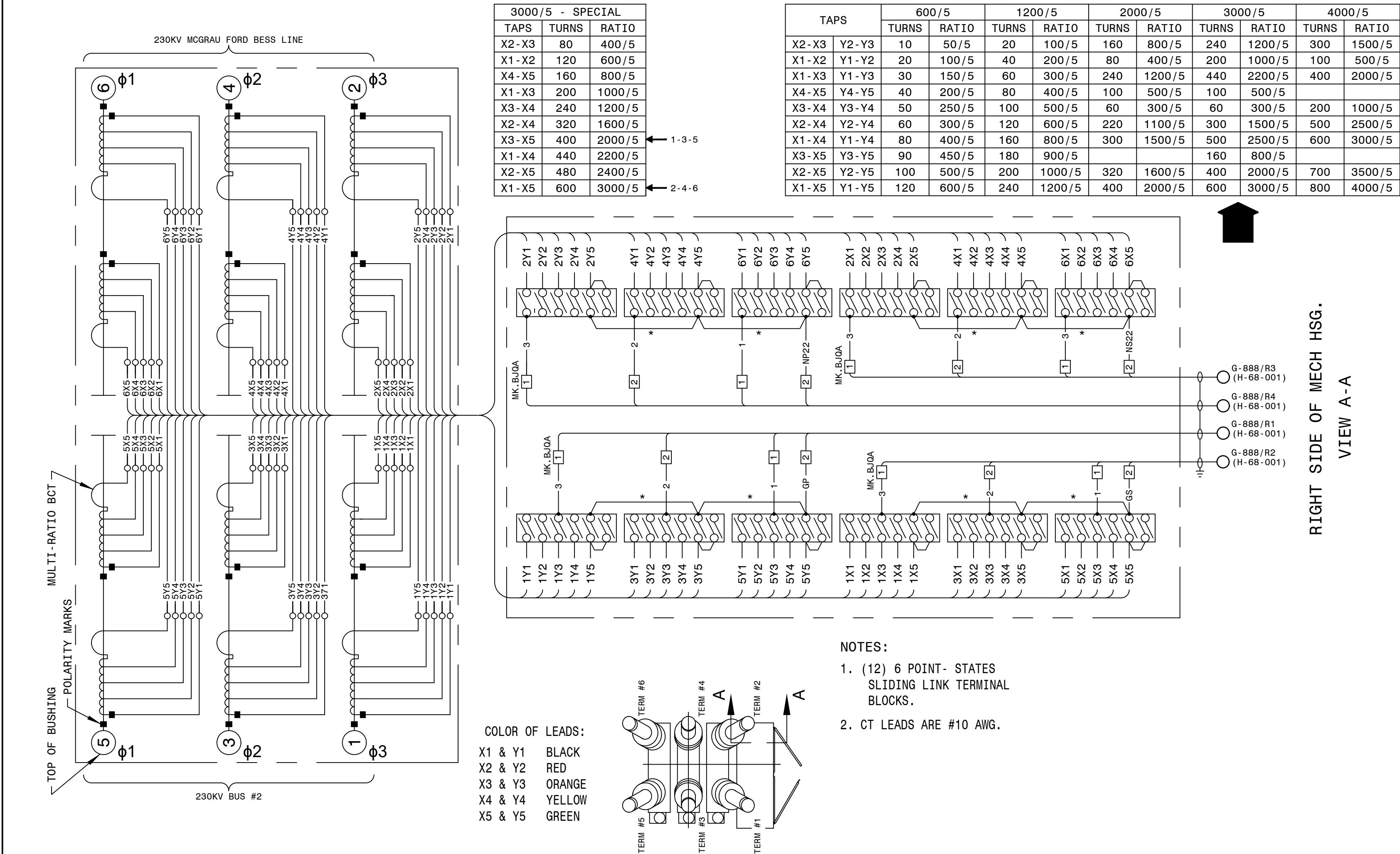




**AUTOCAD ELECTRICAL**  
CONTAINS AUTOCAD ELECTRICAL ELEMENTS

 <p><b>GEORGIA POWER</b> A SOUTHERN COMPANY</p>	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: 230KV PCB 646888 (CO.#B19453) WIRING DIAGRAM							
	DRAWN: EG/BMCD		TYPE: 82		FACILITY #:		NUMBER:	
	CHECKED: SW/BMCD		SCALE: N.T.S.		01 - 173		D- 426	
	APPROVED: PJ#189807		BOM:				SHEET: REV: - 003 - -	
DATE: 12/17/2024		ASC FACS:				ALT DWG NUM:		





AUTOCAD ELECTRICAL

THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

- CONSTRUCTION NOTES:
- INDICATES FIELD WIRING
  - POWER TERMINAL BLOCK MK. BJQA TO BE LOCATED AND INSTALLED BY THE FIELD, AS REQUIRED.
  - CABLES INSTALLED FROM POWER TERMINAL BLOCK MK. BJQA TO BLOCK TERMINAL MK. BJPE TO BE #10.

REFERENCES

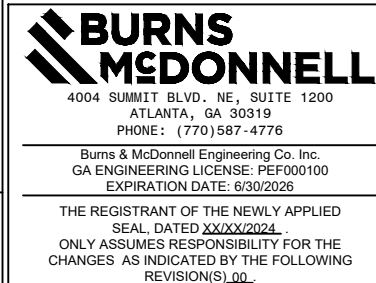
D-426-001 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.1

D-426-002 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.2

D-426-003 230KV PCB 646888 (CO.#B19453) WIRING DIAGRAM

D-426-005 230KV PCB 646888 (CO.#B19453) NAMEPLATE & GAS SYSTEM

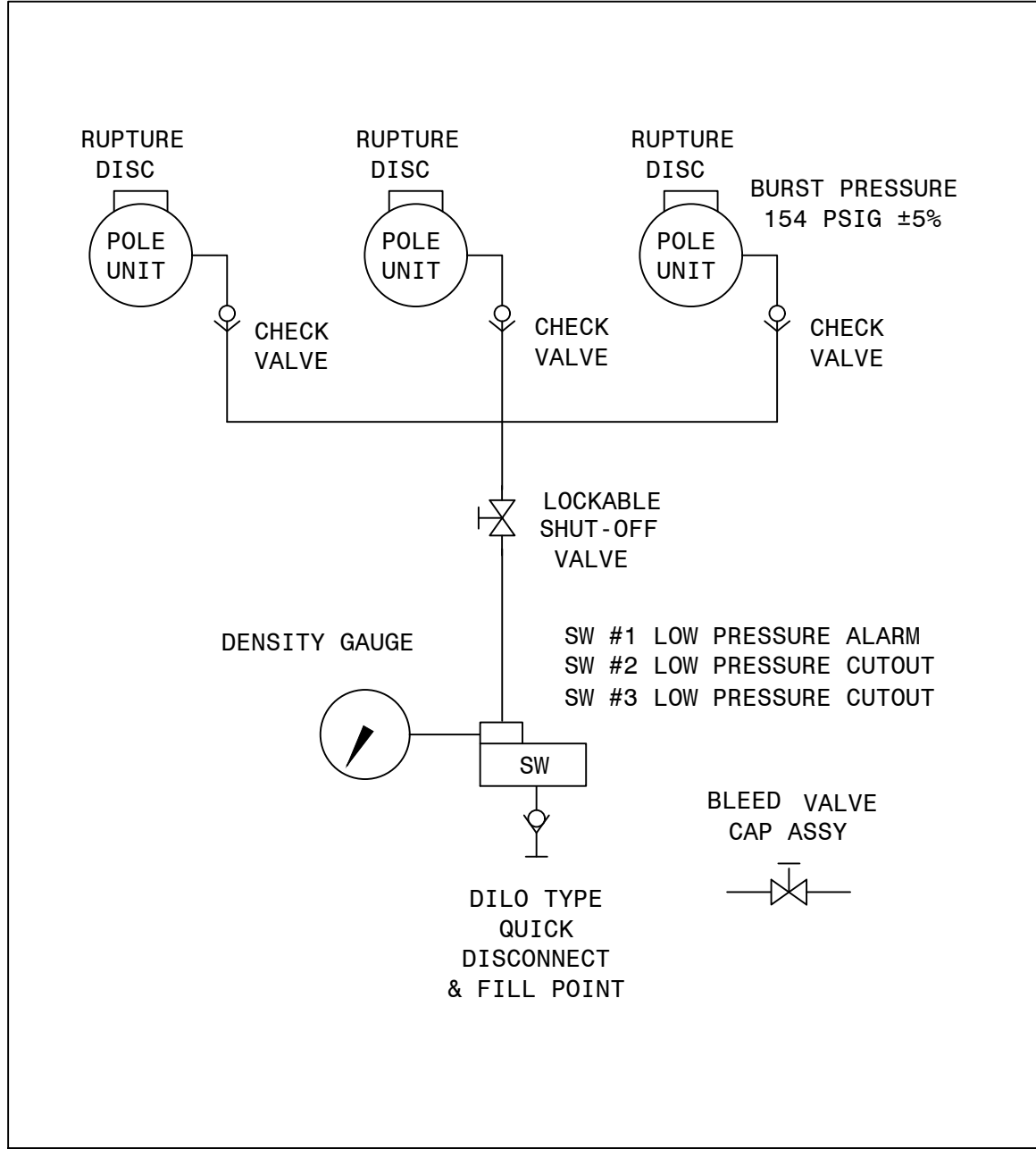
P.I.#1899807



<b>GEORGIA POWER</b> A SOUTHERN COMPANY	<b>FACILITY NAME:</b> MCGRAU FORD TS
<b>DRAWN:</b> EG/BHCD	<b>TITLE:</b> 230KV PCB 646888 (CO.#B19453) BCT WIRING DIAGRAM & NAMEPLATE
<b>CHECKED:</b> SW/BHCD	<b>TYPE:</b> 82
<b>APPROVED:</b> PT#1899807	<b>SCALE:</b> N.T.S.
<b>DATE:</b> 12/17/2024	<b>NUMBER:</b> 01-173
<b>DEV.#:</b> 646888	<b>SHEET:</b> 004 - -
<b>ASC FAC:</b>	<b>ALT DWG NUM:</b>

<div><div></div><div>Sulfur Hexafluoride Circuit Breaker Type SPS2S-245-63 -1</div></div> <div><div></div><div><div>SIEMENS</div><div>energy</div></div><div></div></div> <div><div></div><div></div><div></div></div>		
Rated Max. Volts 245 kV	Rated Voltage Range Factor 1.0 (K)	Rated Interrupting Time 2.0 Cycles
Rated Continuous Current 3000 A	Rated Short Circuit Current 63000 A	Rated Capacitance Current Switching
Frequency 60 Hz	Rated Out of Phase Current 15800 A	Line Charging 200 A Isolated Bank Sw. 1200 A Back -to- Back Sw. 700 A Inrush Peak 20000 A Inrush Freq. 4250 Hz
Wt. of Breaker With Gas 11200 Lbs	Full Wave Impulse Withstand 900 kV	Rated Operating Duty Cycle OCO-15SEC-CO
Weight of SF6 Gas 116 Lbs	PO# GPC11335358 ITEM# 1876166	
Rated Operating Pressure at 68°F/20 °C 87 psig	Short Time Current Duration 3 SEC	Serial - S.O. 75013063-1 THRU 15
Minimum Operating Pressure at 68 F/20 °C 72 psig	Close and Latch 170 kA	Parts List No.
SF6 Alarm Pressure at 68°F/20 °C 75 psig	Rated Chopped Wave @ 2 microS 1160 kV	Instruction Book PB- 3538-01
SF6 Cutout Pressure at 68°F/20 °C 72 psig		Date of Mfr. MONTH/YEAR
% of DC Component 57 %		
Siemens Energy, Inc. Manufactured or Assembled of U.S. and Foreign Components		Jackson, MS 72184717001

001	72200184027	ALUMINUM	---	F-0	---
MARK	MAKE FROM	MATERIAL	CODE	FINISH	RGH
UNLESS OTHERWISE SPECIFIED		-Confidential- Property of			
ALL DIMENSIONS ARE IN INCHES		Siemens Energy, Inc.			
1-PLACE DECIMAL ± .050		DWG NAME			
2-PLACE DECIMAL ± .020		NAMEPLATE			
3-PLACE DECIMAL ± .005		BREAKER, 245kV			
INTERNAL DIA EXCLUDED		A FSCM NO. DWG NO. ISSUE			
FOR TOL NOT SPECIFIED SEE 500 SERIES SHOP PRG# STD		72184717001			
UNLESS OTHERWISE SPECIFIED		SCALE 1=1 WT R F SHEET 1 OF 1			
DRAWN MD DATE 6/3/19					
CHECK MD DATE 6/3/19					
APVD BL DATE 2/5/20					
ISSUE TH DATE 2/7/20					



UNLESS OTHERWISE SPECIFIED		-Confidential- Property of			
ALL DIMENSIONS ARE IN INCHES		Siemens Energy, Inc.			
1-PLACE DECIMAL ± .050		DWG NAME			
2-PLACE DECIMAL ± .020		GAS SYSTEM SCHEMATIC			
3-PLACE DECIMAL ± .005		OSDS w/SHUT-OFF			
INTERNAL DIA EXCLUDED		A FSCM NO. DWG NO. ISSUE			
FOR TOL NOT SPECIFIED SEE 500 SERIES SHOP PRG# STD		72-181-177-442			
UNLESS OTHERWISE SPECIFIED		SCALE NTS WT R F SHEET 1 OF 1			
DRAWN TH DATE 2-16-05					
CHECK TH DATE 2-16-05					
APVD JP DATE 2-17-05					
ISSUE M BOYD DATE 10/07/08					

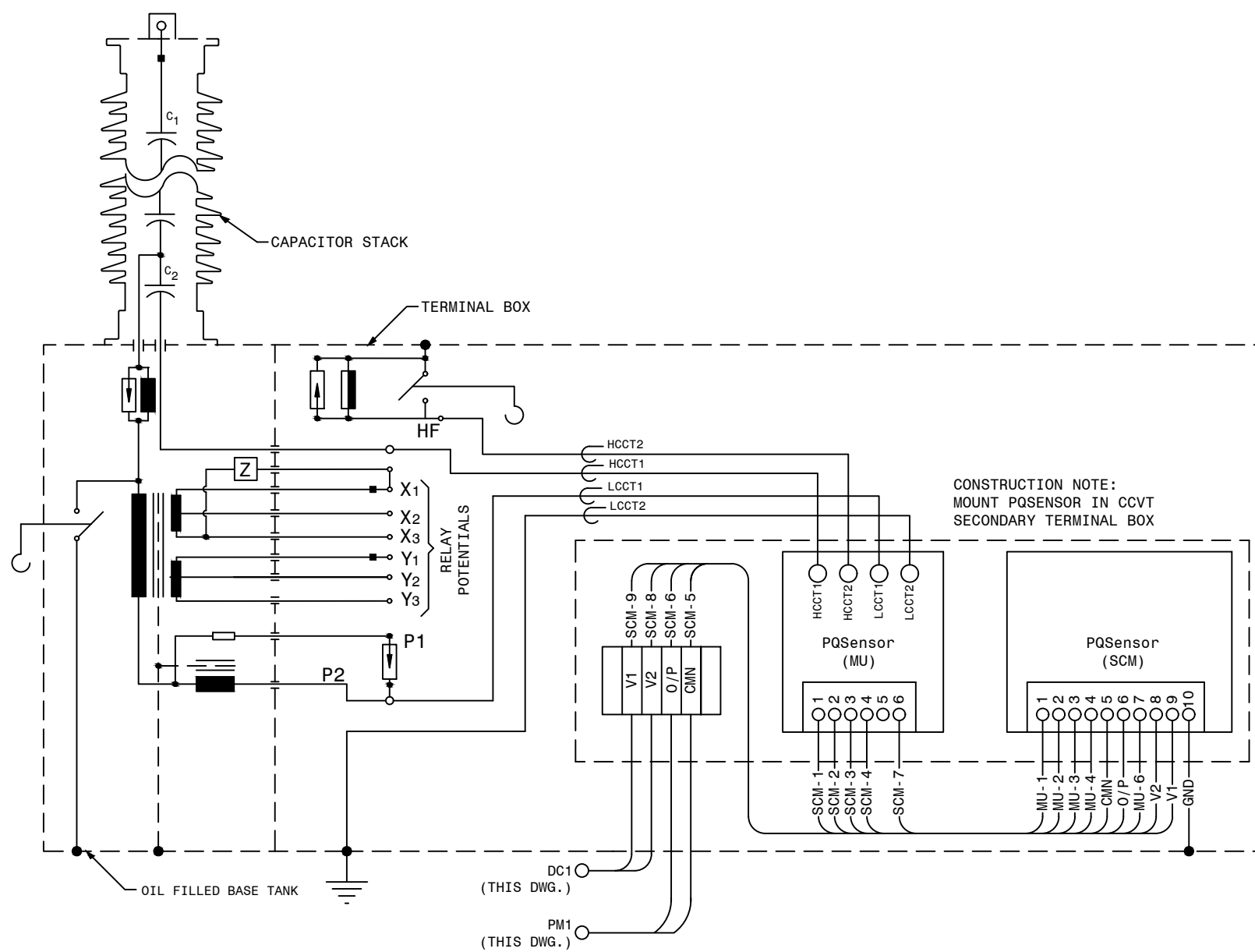
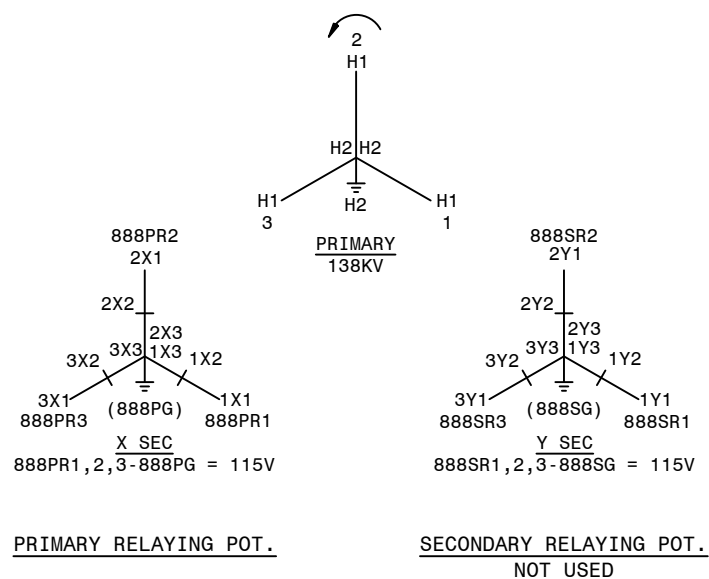
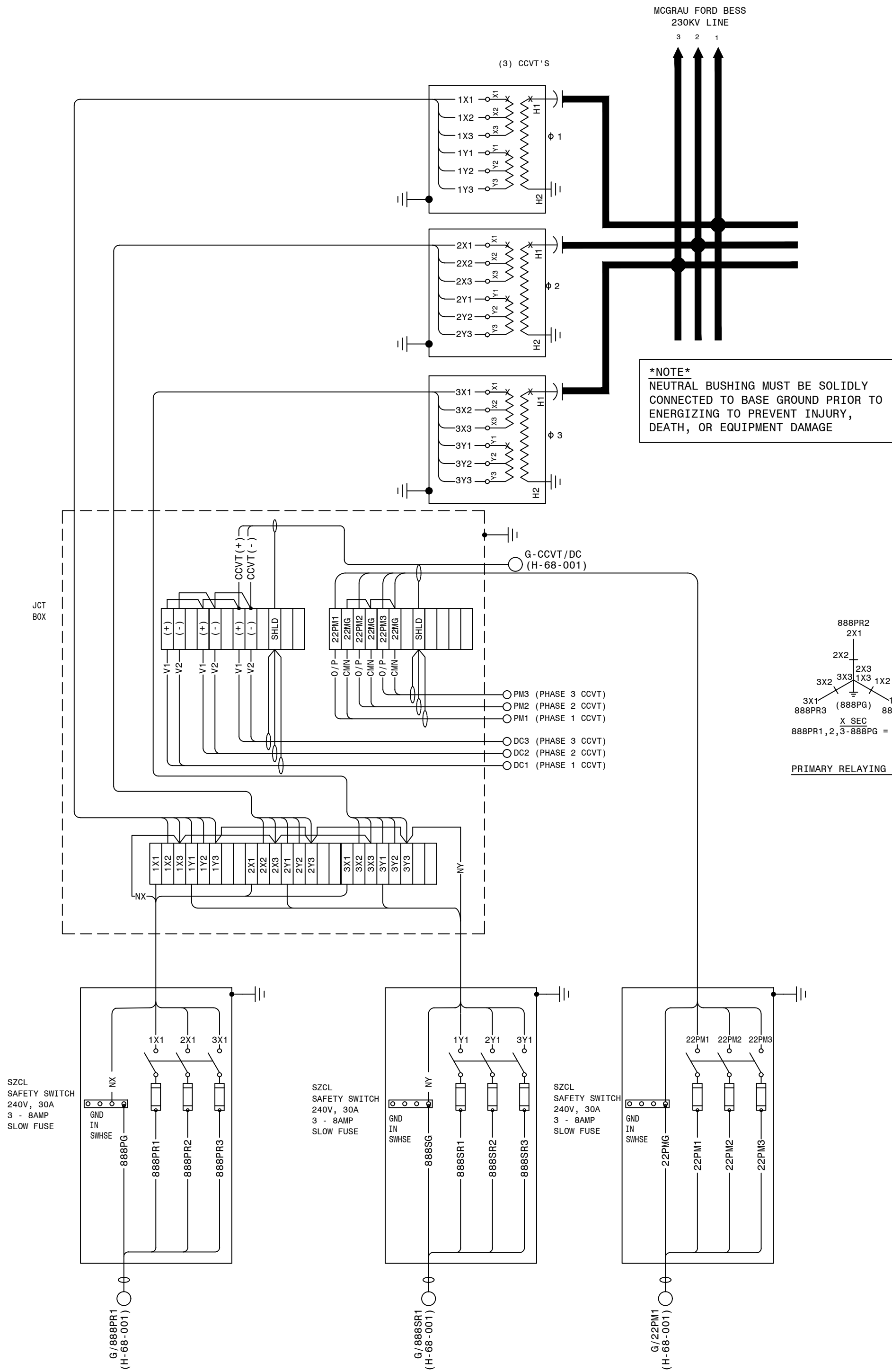
AUTOCAD ELECTRICAL  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES  
D-426-001 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.1  
D-426-002 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.2  
D-426-003 230KV PCB 646888 (CO.#B19453) WIRING DIAGRAM  
D-426-004 230KV PCB 646888 (CO.#B19453) BCT WIRING DIAGRAM & NAMEPLATE



GEORGIA POWER A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
DRAWN: EG/BMCD		TITLE: 230KV PCB 646888 (CO.#B19453) NAMEPLATE & GAS SYSTEM	
CHECKED: SW/BMCD		TYPE: 82	
APPROVED: PT#1899807		FACILITY #: 01-173	
DATE: 12/17/2024		NUMBER: D-426	
ASC FACS:		SHEET: 005 - -	
		ALT DWG NUM:	





PHASE 1 CCVT/PQ SENSOR WIRING DETAIL (TYPICAL FOR PHASE 2 & 3)

REFERENCE:  
H-24-001 SINGLE LINE DIAGRAM SH.1

P.I.#1899807

**BURNS & MCDONNELL**

4004 SUMMIT BLVD., NE, SUITE 1200  
ATLANTA, GA 30319  
PHONE: (770) 887-4778

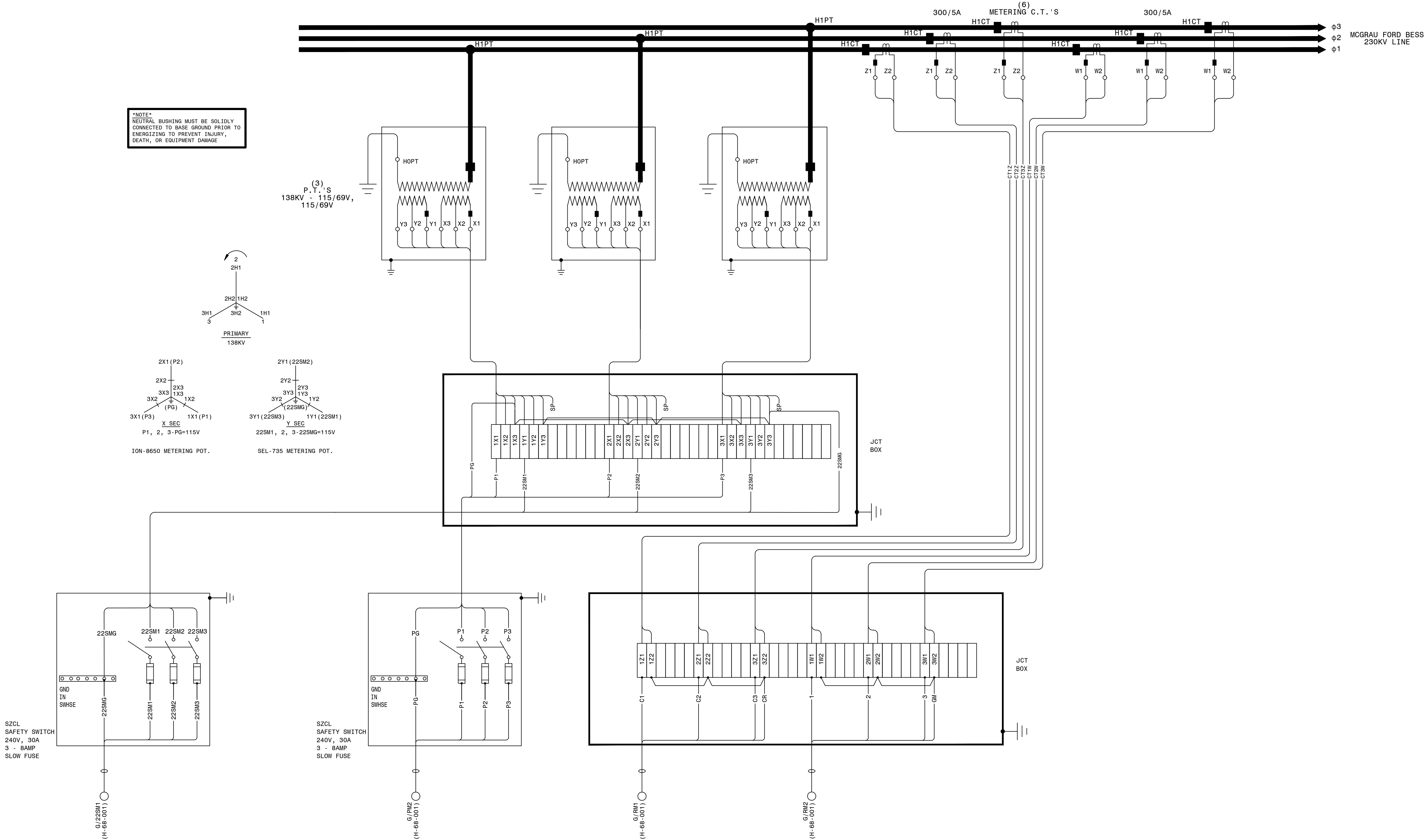
Burns & McDonnell Engineering Co., Inc.  
GA ENGINEERING LICENSE: PE000100  
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED  
SEAL, ENTERED AND SIGNED,  
ONLY ASSUMES RESPONSIBILITY FOR THE  
CHANGES AS INDICATED BY THE FOLLOWING  
REVISIONS/DATE.

**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

<b>GEORGIA POWER</b> A SOUTHERN COMPANY		FACILITY NAME: <b>MCGRAU FORD TS</b>	
DRAWN: EG/BMCD		TITLE: 230KV MCGRAU FORD BESS CCVT POTENTIAL CONNECTION DIAGRAM	
CHECKED: SW/BMCD	TYPE: PT	FACILITY #:	NUMBER:
APPROVED: P.I.#1899807	SCALE: N.T.S.	01 - 173	SHEET: REV:
DATE: 12/19/2024	BOM:	<b>D-427</b>	- 001 - 00
ASC FAC:		ALT DWG NUM:	

\*NOTE\*  
NEUTRAL BUSHING MUST BE SOLIDLY  
CONNECTED TO BASE GROUND PRIOR TO  
ENERGIZING TO PREVENT INJURY,  
DEATH, OR EQUIPMENT DAMAGE



REFERENCE:  
H-24-001 SINGLE LINE DIAGRAM SH.1

P.I.#1899807



**AUTOCAD ELECTRICAL**  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

<b>GEORGIA POWER</b> A SOUTHERN COMPANY		FACILITY NAME: <b>MCGRAU FORD TS</b>	
DRAWN: EG/BMCD		TITLE: MCGRAU FORD BESS LINE INTERCHANGE REVENUE METERING CT AND PT WIRING DIAGRAM	
CHECKED: SW/BMCD	TYPE: WD	FACILITY #:	NUMBER: 428
APPROVED: P.I.#1899807	SCALE: N.T.S	01-173	SHEET: REV:
DATE: 12/19/2024	BOH:		
ASC FACS:			

**D- 428**  
- 001 - 00  
ALT DWG NUM:

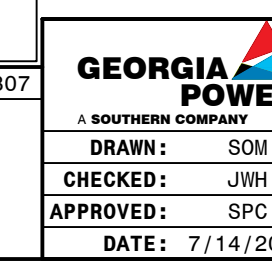
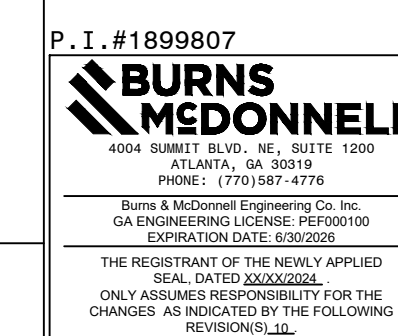




1. FIELD TO LOCATE NEW BATTERY EQUIPMENT.

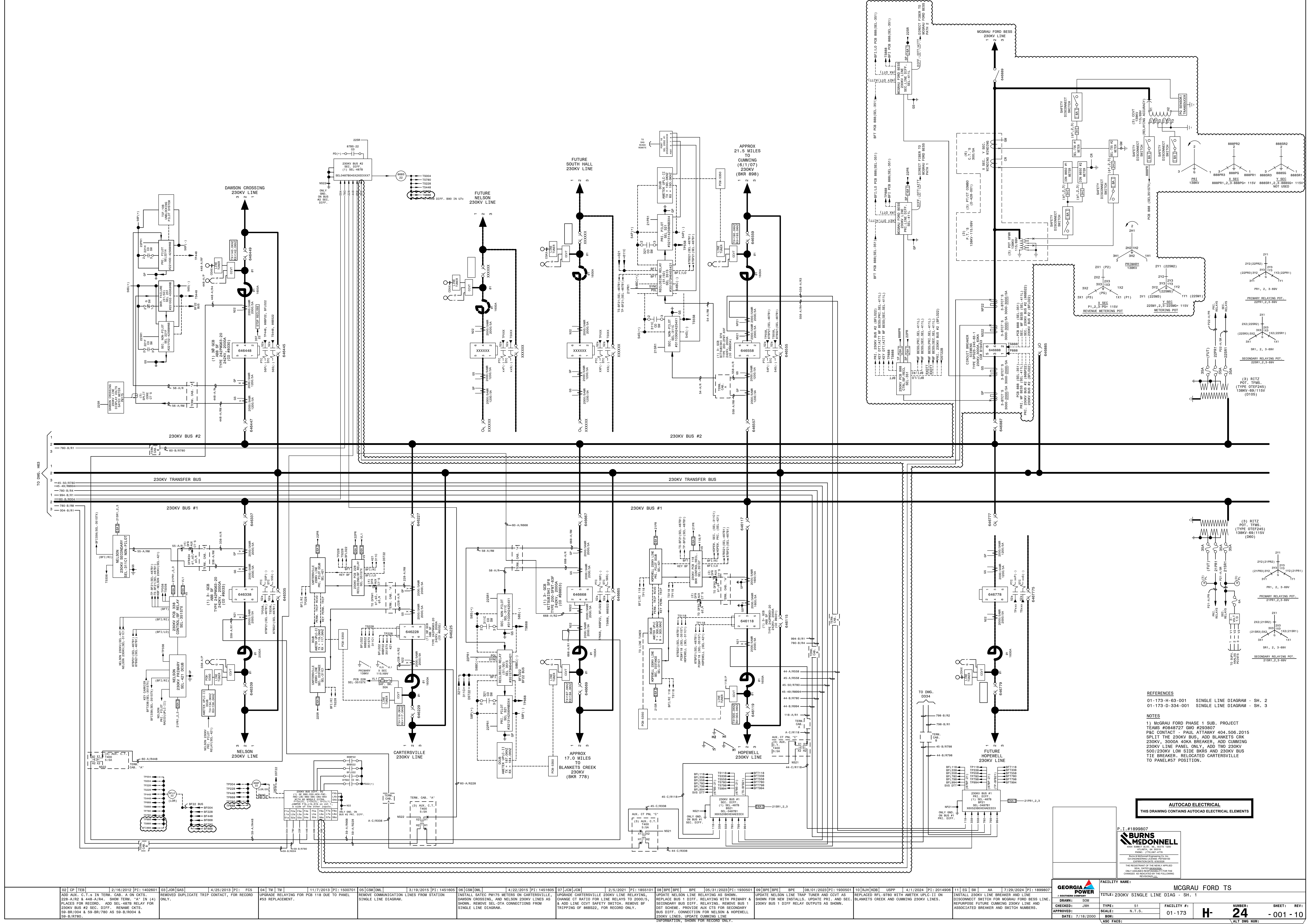
## REFERENCES

01-173-H-24-001	SINGLE LINE DIAGRAM - SH. 1
01-173-H-63-001	SINGLE LINE DIAGRAM - SH. 2
01-173-D-334-001	SINGLE LINE DIAGRAM - SH. 3



FACILITY NAME:		MCGRAU FORD TS			
TITLE: SWITCHBOARD PANEL LAYOUT					
TYPE:	61	FACILITY #:	H-	NUMBER:	SHEET: REV:
SCALE:	3/8"=1'-0"	01-173		17	- 001 - 09
BON:					





REFERENCES  
01-173-H-63-001 SINGLE LINE DIAGRAM - SH. 2  
01-173-D-334-001 SINGLE LINE DIAGRAM - SH. 3

NOTES  
1) MCGRAU FORD PHASE 1 SUB. PROJECT  
TEAMS #0849727 GWO #233907  
P&C CONTACT - PAUL ATTAWAY 404.506.2015  
SPLIT THE 230KV BUS, ADD BLANKETS CRK  
230KV, 3000A 40KA BREAKER, ADD CUMMING  
230KV LINE PANEL ONLY, ADD TWO 230KV  
500/230KV LOW SIDE BKRS AND 230KV BUS  
TIE BREAKER, RELOCATED CARTEERSVILLE  
TO PANEL#57 POSITION.

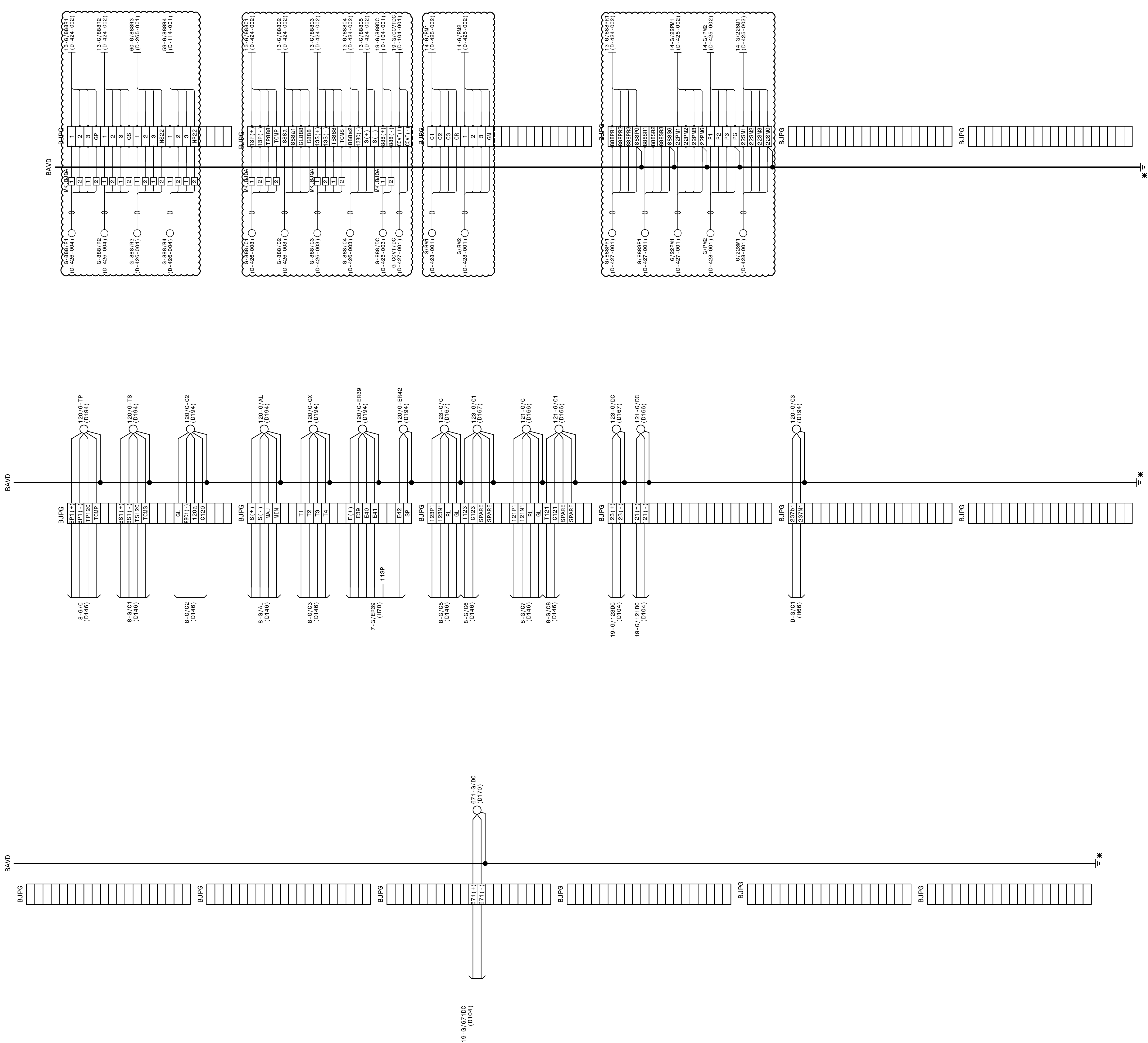
AUTOCAD ELECTRICAL  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.1.#1899807  
**BURNS MEDONNELL**  
A SOUTHERN COMPANY  
1770 EAST 47TH ST  
ATLANTA, GA 30341  
PH 404.506.2015  
FAX 404.506.2016  
WWW.BURNSMEDONNELL.COM  
THE REGISTRATION OF THE SEAL APPLIED  
HEREIN IS LIMITED TO THE PROJECT  
AND EXPIRES ON THE DATE OF THE  
RENEWAL OF THE REGISTERED ENGINEER'S  
LICENSE.

FACILITY NAME: <b>MCGRAU FORD TS</b>	
TITLE: 230KV SINGLE LINE DIAG - SH. 1	
DRAWN: SWH	CHECKED: JWH
DATE: 7/18/2000	SCALE: N.T.S.
FACILITY #: <b>01-173</b>	NUMBER: <b>24</b>
SHEET: REV: <b>-001-10</b>	
BOM:	
ASC FACS:	
ACT DWG NUM:	







LEGEND:  
\* GND. TO GND. BUS IN TRENCH

NOTES:  
1. POWER TERMINAL BLOCK MK. BJOA TO BE LOCATED AND INSTALLED BY THE FIELD, AS REQUIRED.  
2. CABLES INSTALLED FROM POWER TERMINAL BLOCK MK. BJOA TO BLOCK TERMINAL MK. BJPE TO BE #10.

REFERENCES:  
15-371-H17 CONTROL PANEL LAYOUT  
15-371-DB3 SWBD. CONSTRUCTION DETAILS  
32" TERMINATION CABINETS A-H

AUTOCAD ELECTRICAL  
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.I. #1899807  
**BURNS MEDONNELL**  
A SOUTHERN COMPANY  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF GEORGIA  
EXPIRATION DATE: 03/2026  
THE REGISTRATION OF THE SEAL APPLIED HEREON IS LIMITED TO THE PROJECT AND DATE SPECIFIED THEREON.  
ONLY AS A SIGNATURE RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISIONS.

500KV PCB #120; MOD'S 121, 123, & 671.

FACILITY NAME: MCGRAU FORD TS		TITLE: TERMINATION CABINET G CONNECTION DIAGRAM		NUMBER: 68		SHEET: REV: -001-02	
CHECKED: JLC		TYPE: WD		FACILITY #: 01-173		DATE: 05/30/2005	
APPROVED: AJW		SCALE: N.T.S.		BOM:		ASC FAC:	
DATE: 05/30/2005		ALT DWG NUM:					

01 [AJW/AJW] 08/28/2006 P1: 1899807  
CORRECTED CABLE NAME 120/G-C2. ADDED CABLE 120/G-C3 & D-G/C1.

02 [AJW/PAJ] JJJH 09/27/2007 P1: 0848727

03 EQ SW AA 12/16/2024 P1: 1899807

INSTALL CABLES FOR PANELS 13, 14, 19, 59, 60, AND ASSOCIATED OUTDOOR EQUIPMENT, AND POWER BLOCKS. ADD NOTES 1 AND 2.



