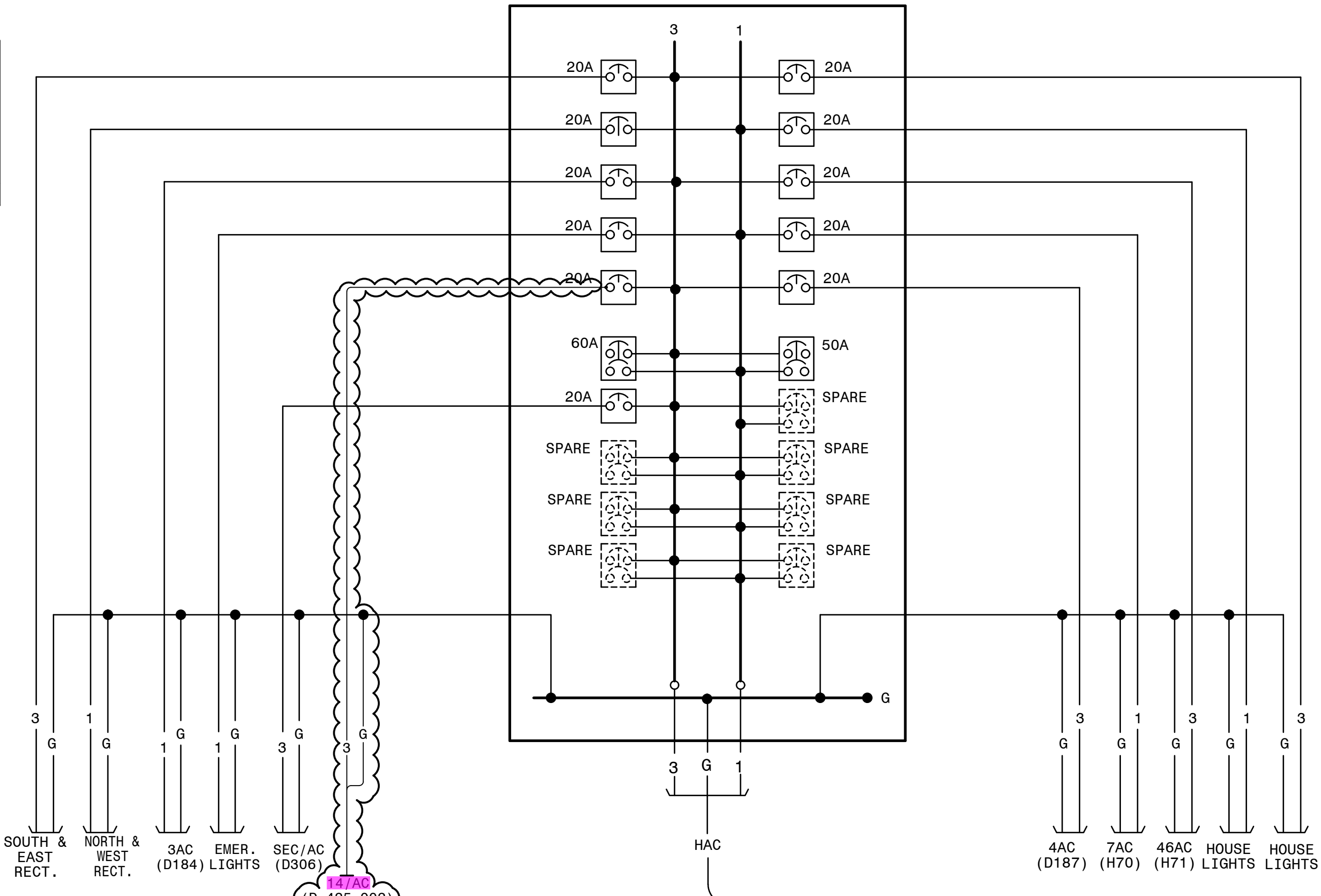
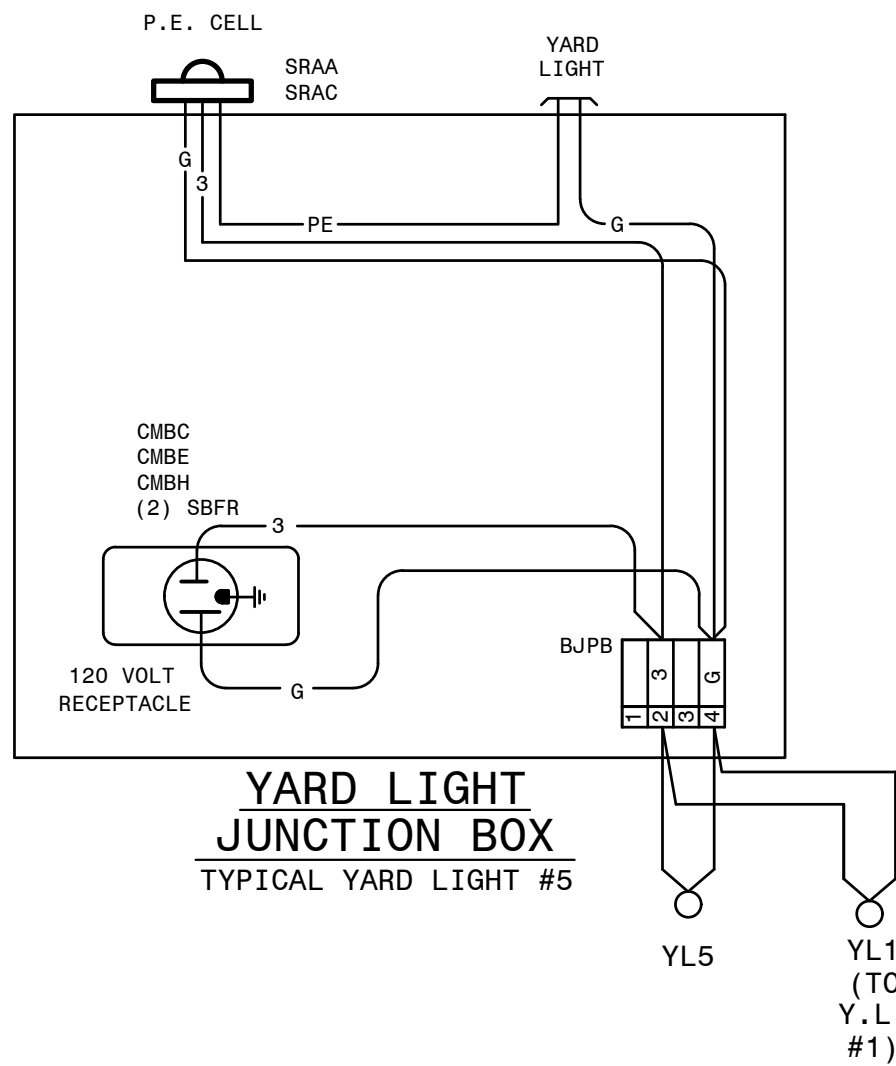


**HVAC A.C. PANEL
WIRING DIAGRAM**

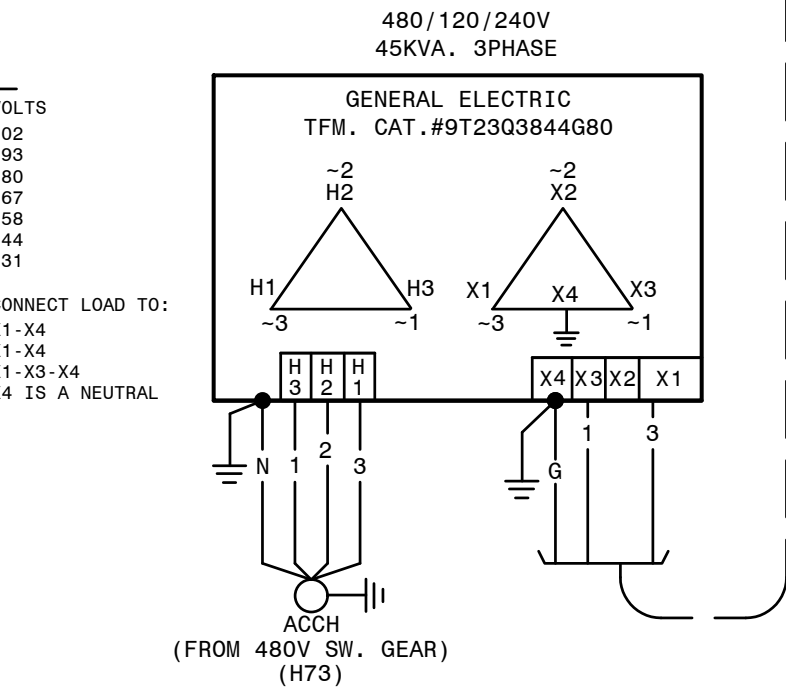


**HOUSE A.C. PANEL
WIRING DIAGRAM**



**YARD LIGHT
JUNCTION BOX
TYPICAL YARD LIGHT #5**

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:		




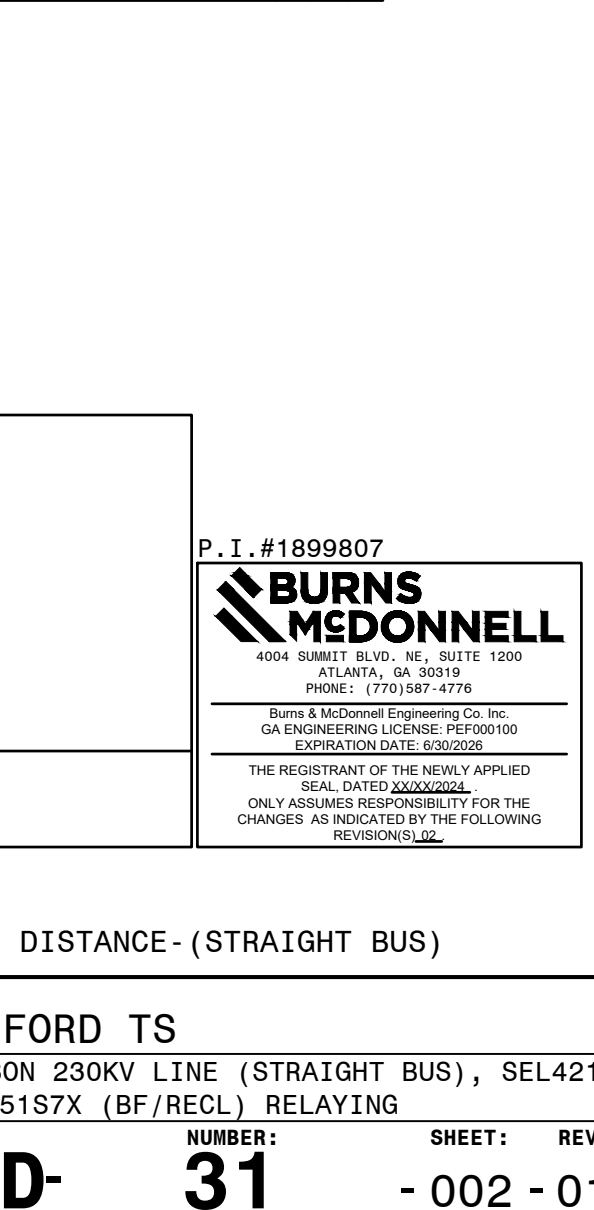
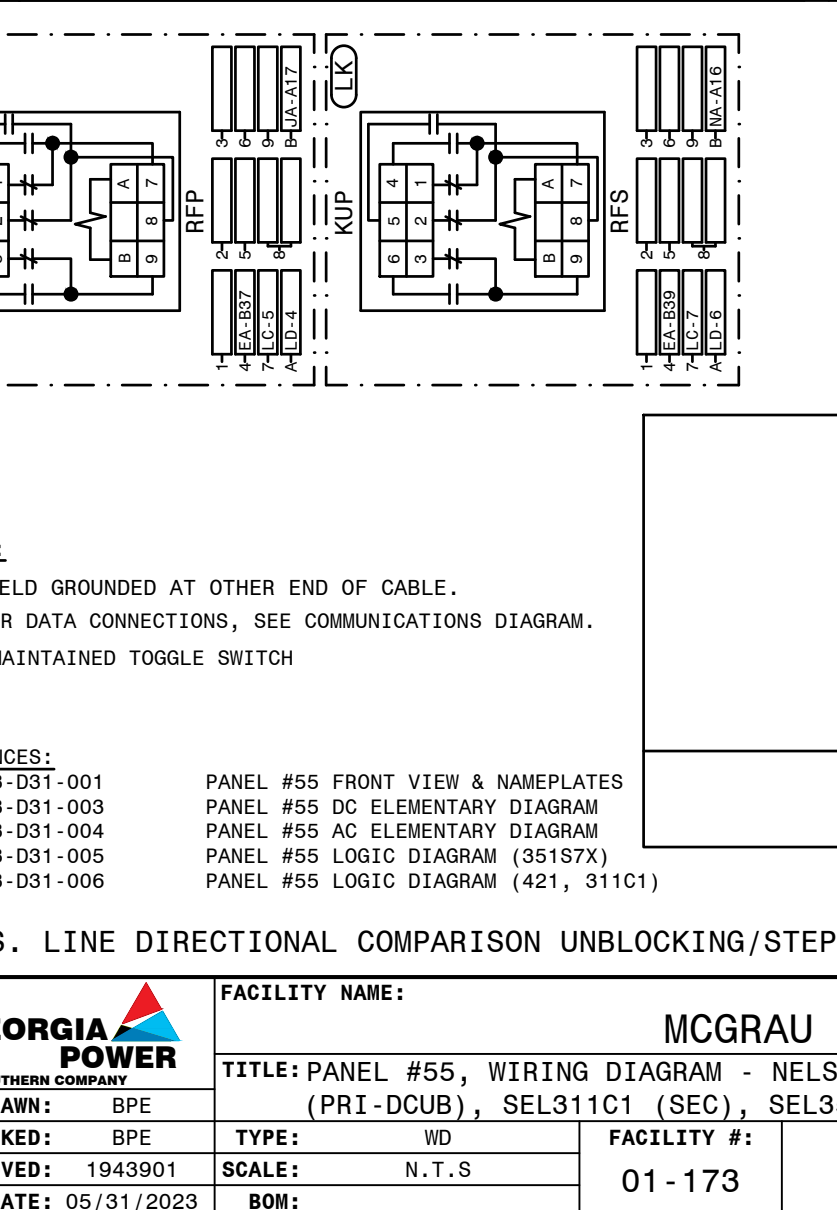
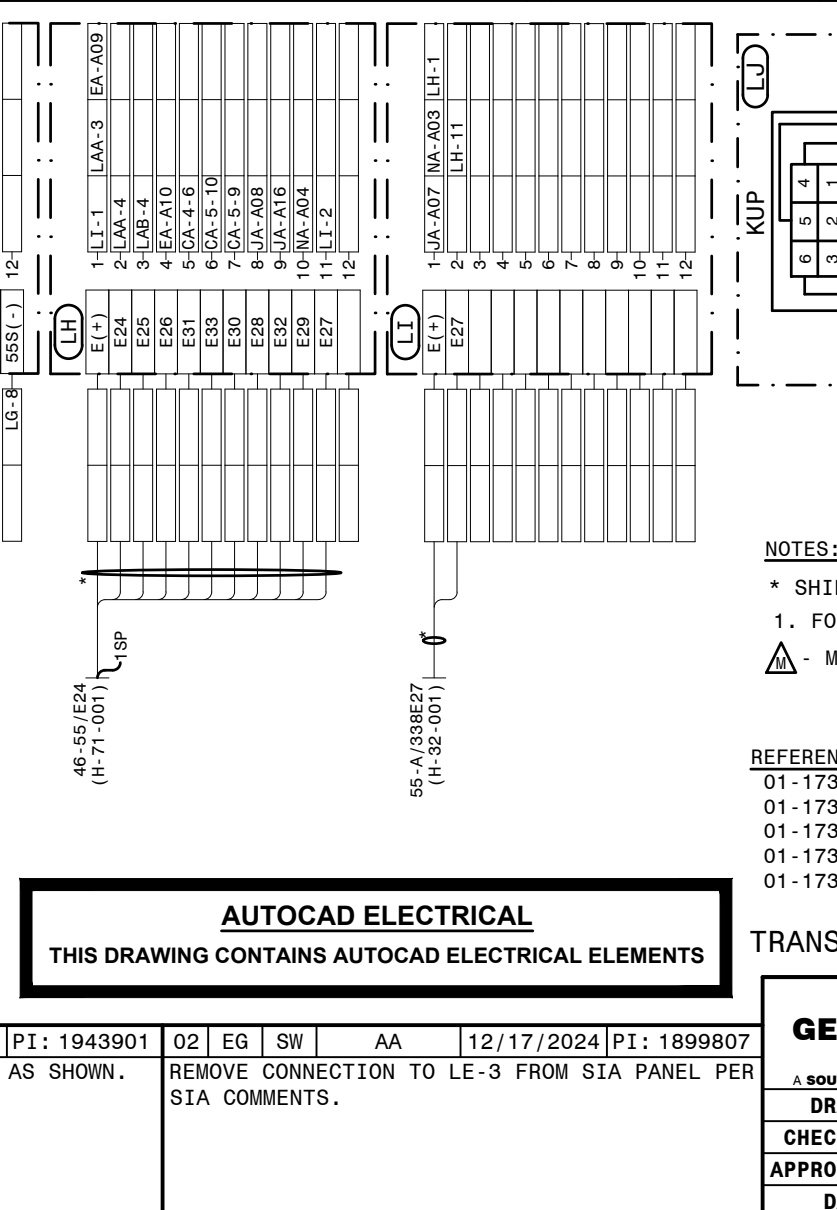
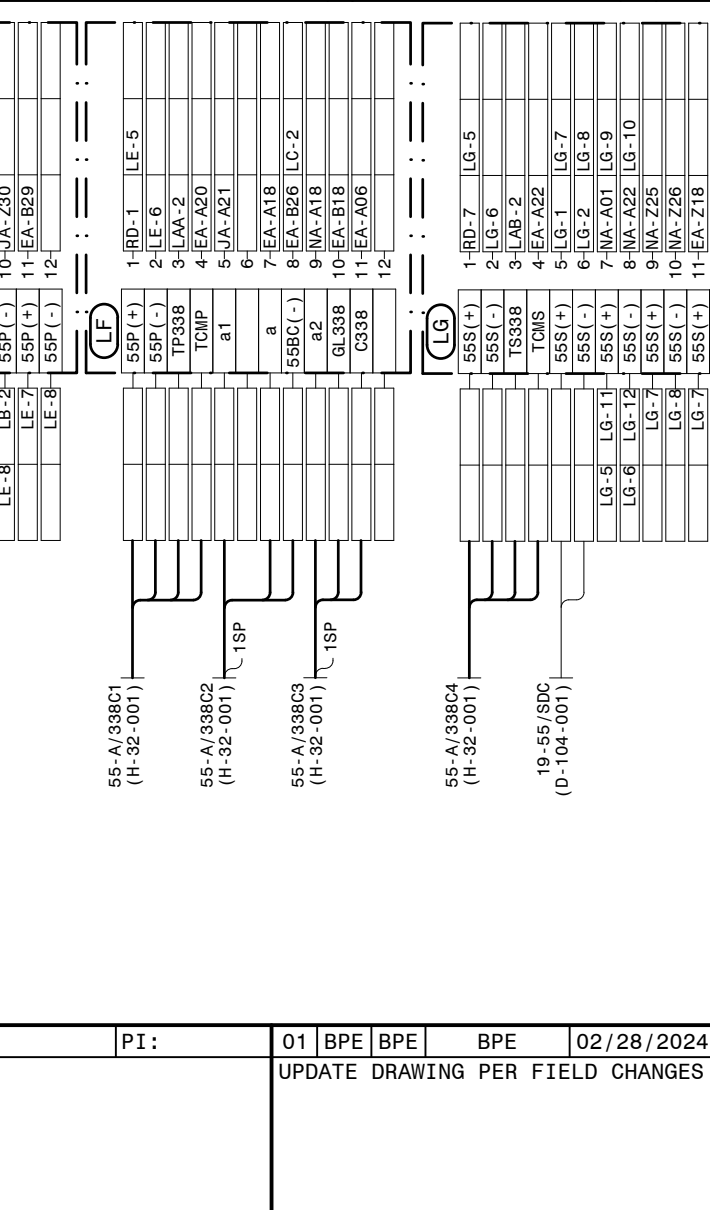
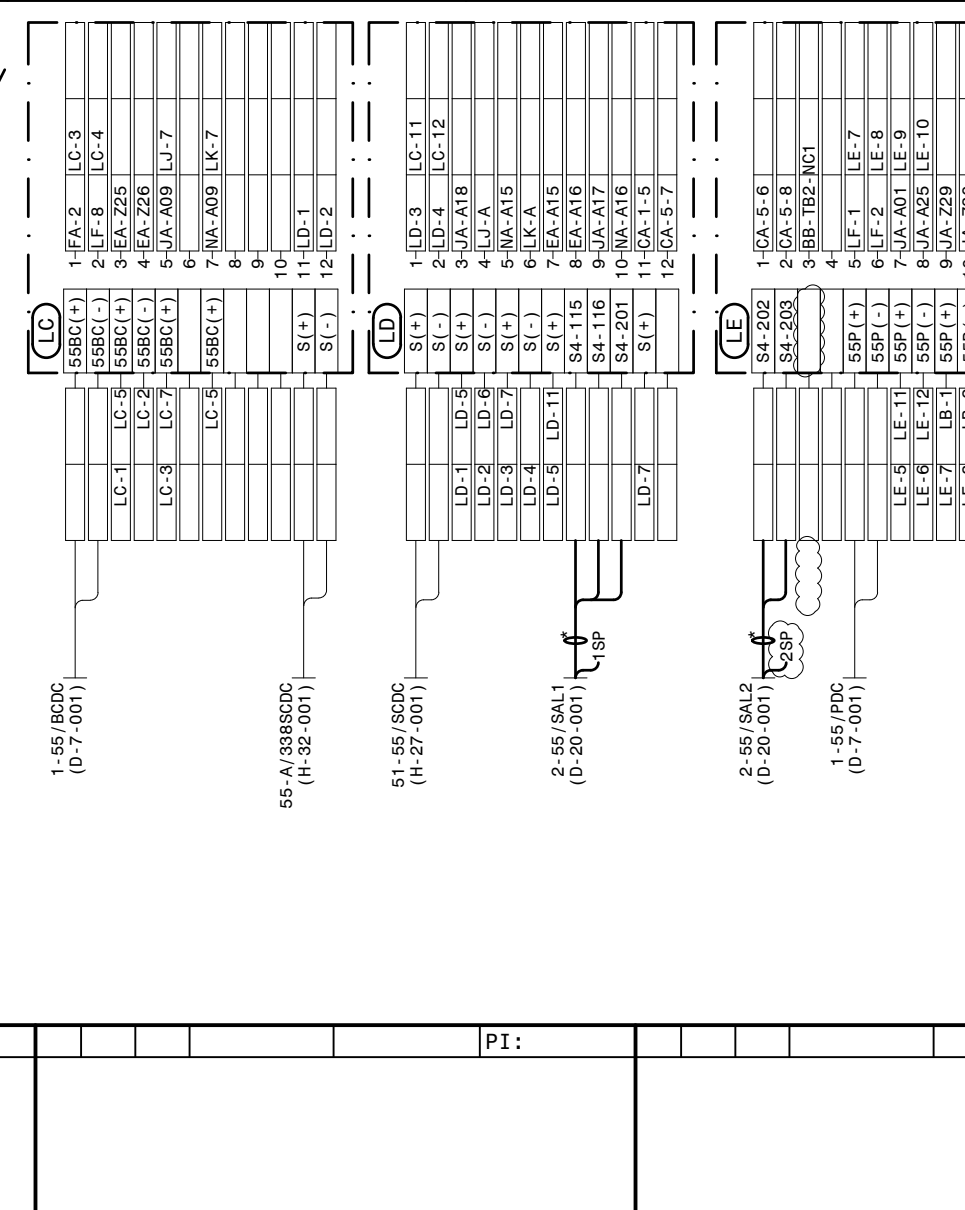
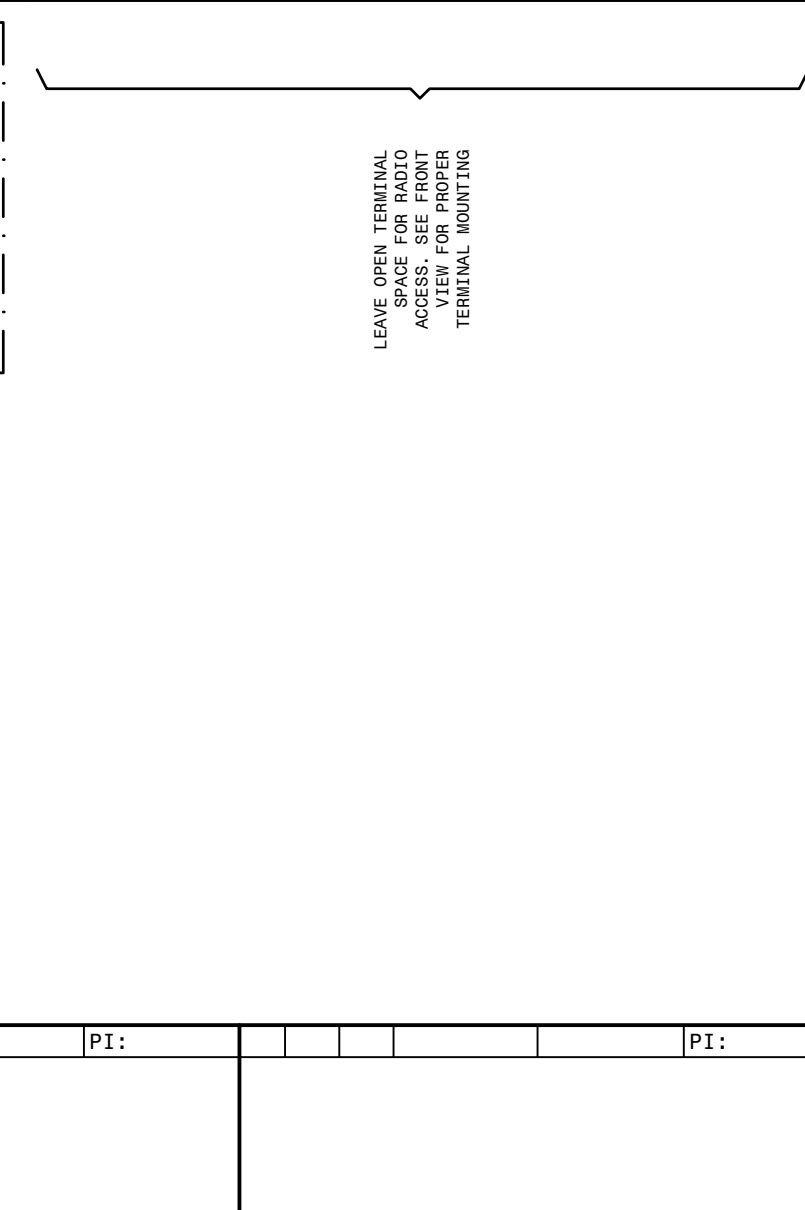
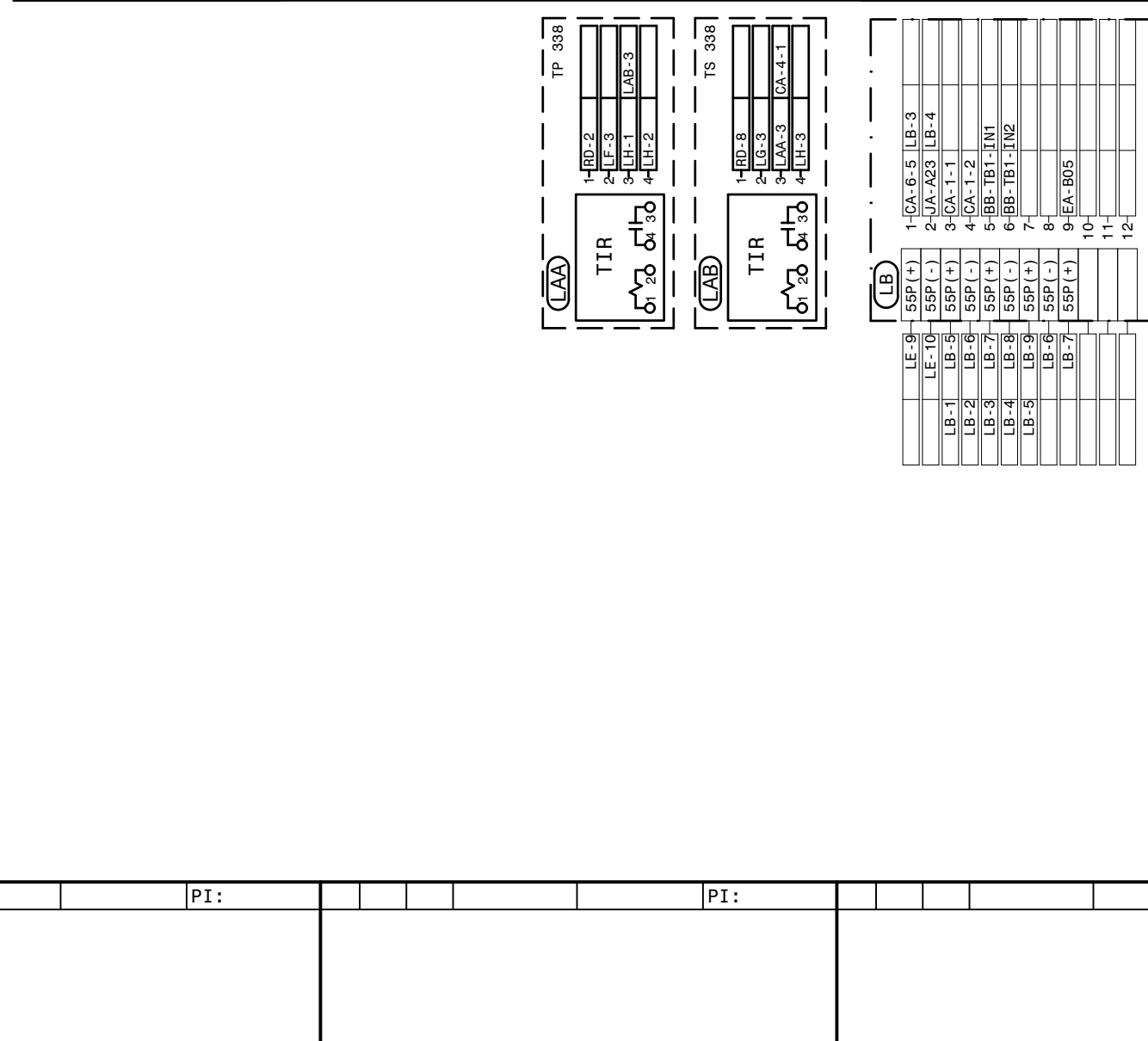
REFERENCES:
01-173-H64
01-173-H73

ONE LINE DIAGRAM - 480VAC STATION SRVC.
480VAC SWGR. CONNECTION DIAG.

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS


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: PE0000100
EXPIRATION DATE: 03/31/2025
THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED 03/31/2025,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS.

 GEORGIA POWER A SOUTHERN COMPANY	FACILITY NAME:			
	MCGRAU FORD TS			
	TITLE: MISCELLANEOUS WIRING DIAG.			
	DRAWN: JLC			
	CHECKED: AJW	TYPE: WD	FACILITY #:	NUMBER:
APPROVED: AJW	SCALE: NO SCALE	01 - 173	D-9	- 001 - 05
DATE: 06-29-05	BOH:			
ASC FACS:		ALT DWG NUM:		



NOTES:


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

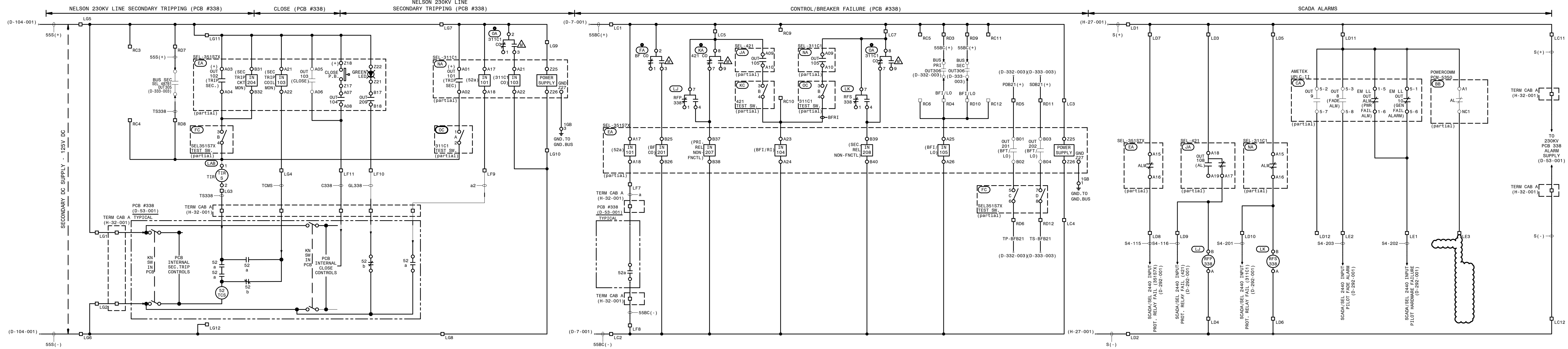
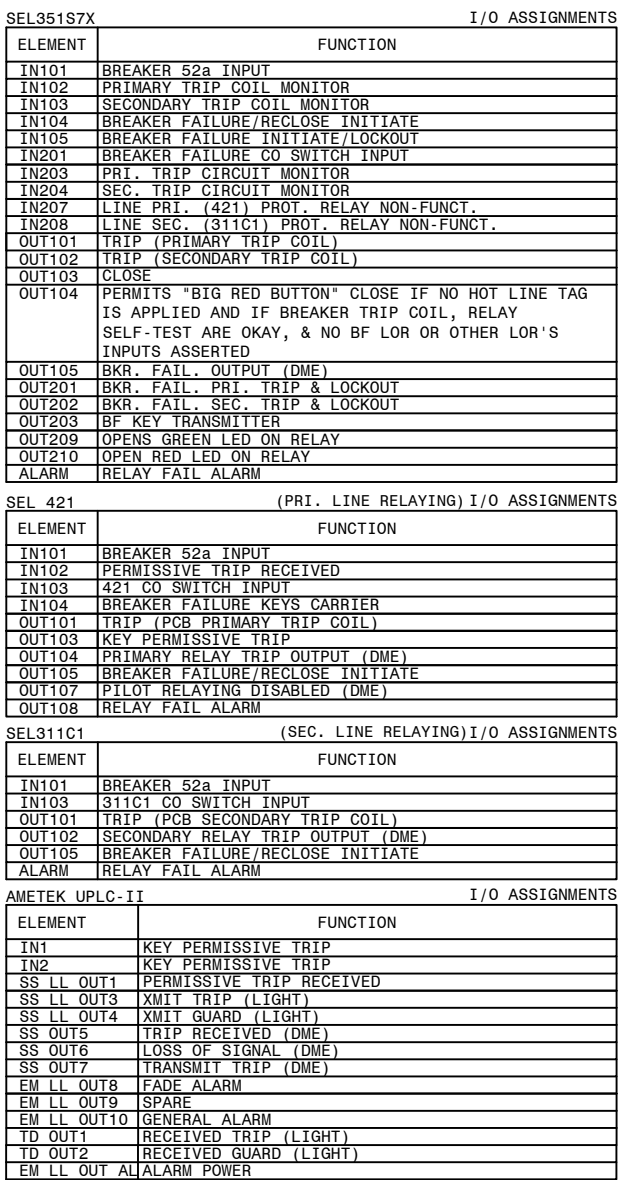
 - MAINTAINED TOGGLE SWITCH





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)	OR ENGINEERING LICENSE: PE#00700 EXPIRATION DATE: 12/30/2028 THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED 03/02/2024, ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISIONS:
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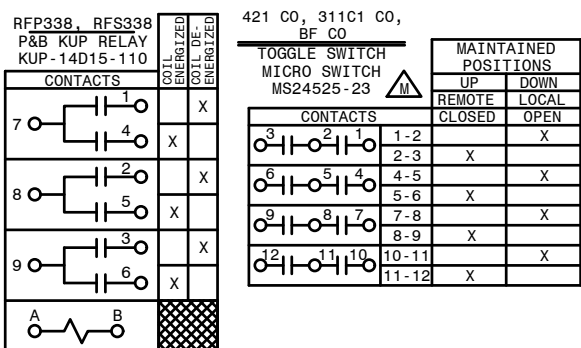
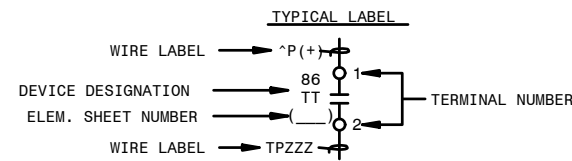
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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 PHOENIX PLUG
-  - BARRIER BLOCK TERMINAL
-  - LED INDICATING LIGHT
-  - SWITCH SHOWN IN OFF POSN



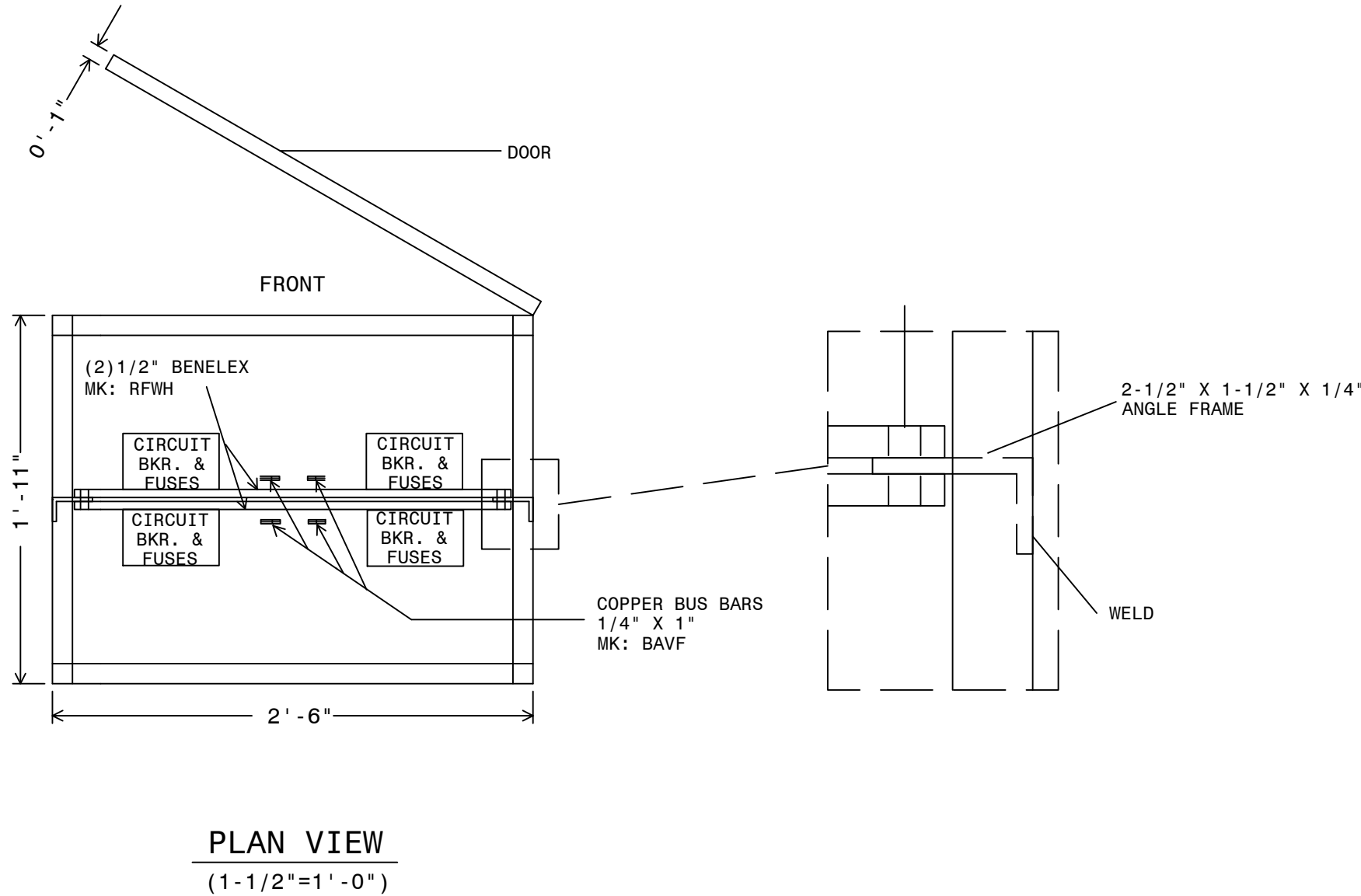
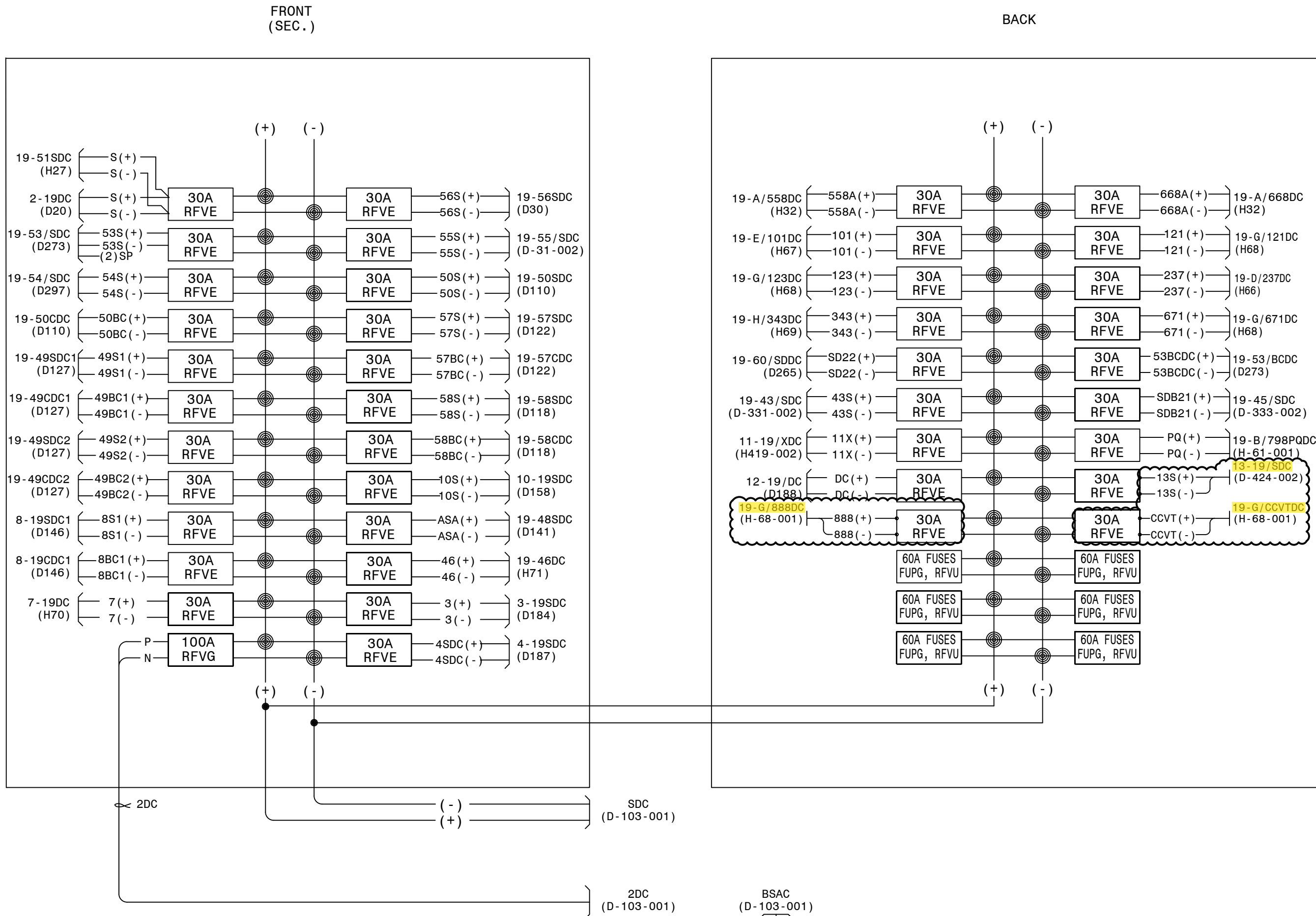
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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)

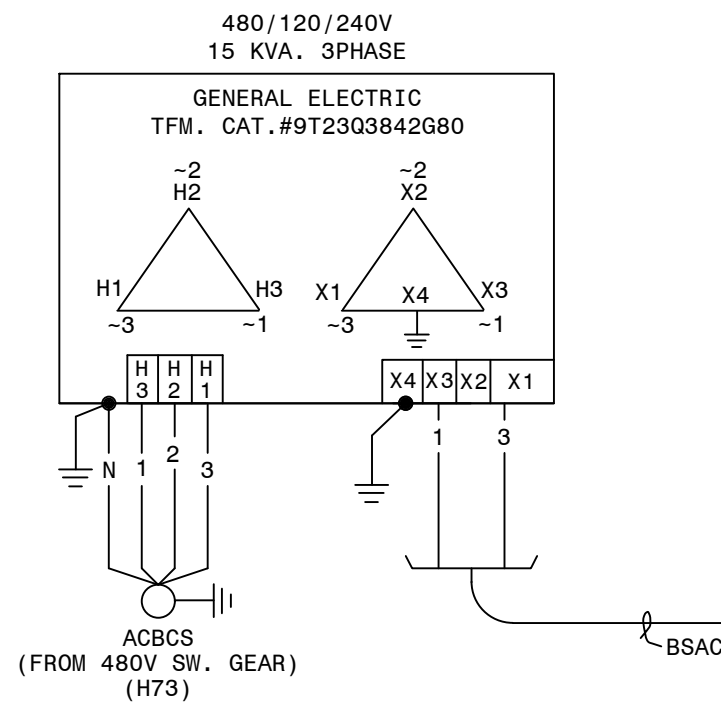
TRANS. LINE DIRECTIONAL COMPARISON UNBLOCKING/STEP DISTANCE- (STRAIGHT BUS)

	FACILITY NAME:				MCGRAU FORD TS			
	TITLE: PANEL #55, DC ELEMENTARY - NELSON 230KV LINE, SEL421 (PRI DCUB), SEL311C1 (SEC), SEL3517X (BF/RECL) RELAYING							
	CHECKED: BPE	TYPE: 52	FACILITY #:	NUMBER:	SHEET:	REV:		
	APPROVED: 1943901	SCALE: N.T.S.	01 - 173	D-	31	- 003	- 02	
	DATE: 05/31/2023	BOM:	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		
1	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:		
		CONNECT LOAD TO:
120	X1-X4	
240	X1-X4	
120/240	X1-X3-X4	
	X4 IS A NEUTRAL	

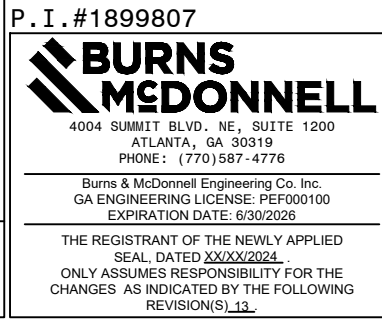



AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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

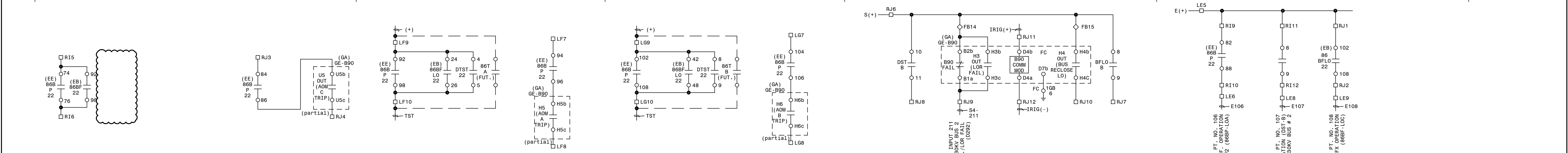
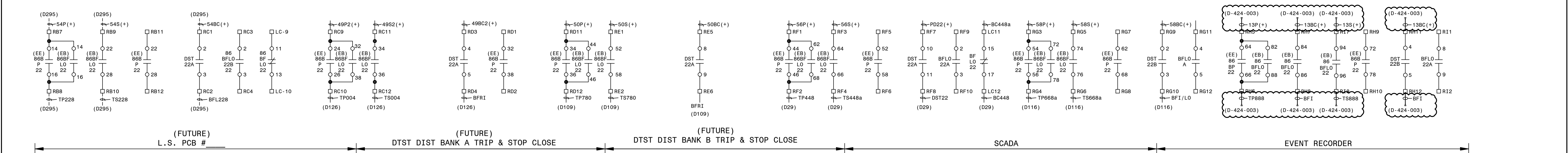
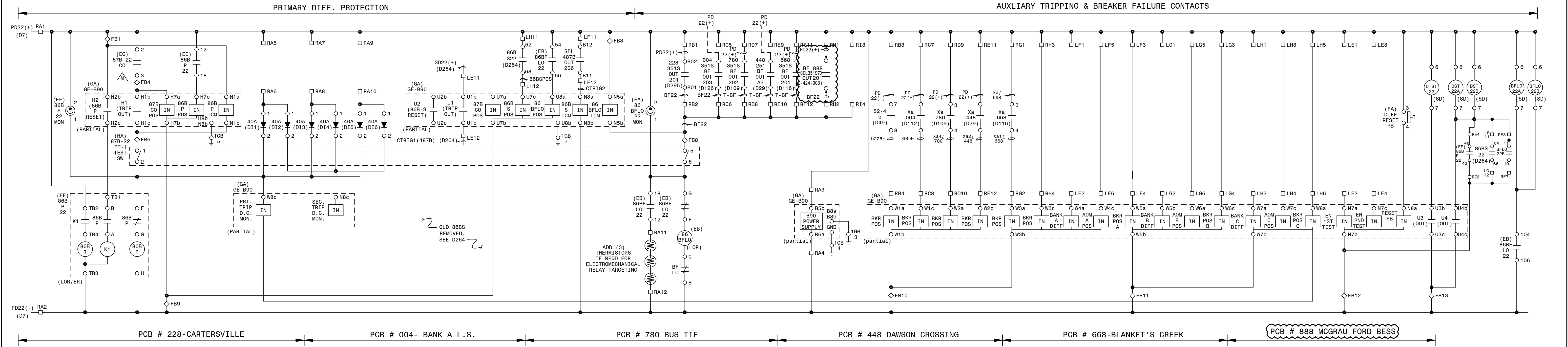
PANEL #1 WIRING DIAGRAM PRIMARY D.C. PANEL
PRIMARY DC SUPPLY AND BATTERY CHARGER ELEMENTARY
PRIMARY DC - MOBILE BATTERY TRAILER CONNECTIONS
SECONDARY DC SUPPLY AND BATTERY CHARGER ELEMENTARY
SECONDARY DC - MOBILE BATTERY TRAILER CONNECTIONS
S.S. & THROWOVER CAB #2 WRG & CONN. DIAGRAM

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



 A SOUTHERN COMPANY ELECTRIC		FACILITY NAME:					
		MCGRAU FORD TS					
DRAWN: JLC/CP		TITLE: PANEL #19 WIRING DIAGRAM SECONDARY D.C. PANEL					
CHECKED: AJW/TEB	TYPE: WD	FACILITY #:		D-	NUMBER:	SHEET:	REV:
APPROVED:	SCALE: AS SHOWN	01-173			104	- 001 -	12
DATE: 11/22/2004	BOH:	ASC FAC:		ALT DWG NUM:			

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/COVTDG.	



GE B90 INPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

ELEMENT	CONTACT	FUNCTION
IN	H7a/H7b	87B CUTOFF POSITION
IN	H7b/H7c	86B PRIMARY POSITION
IN	N1a/N1b	86B PRIMARY TRIP COIL MONITOR
IN	U7a/U7b	87B CUTOFF POSITION NOT IN SERVICE
IN	U7b/U7c	86B SECONDARY POSITION FROM 487V PANEL
IN	U7b/U8a	86BFL0 POSITION
IN	N3a/N3b	86B SECONDARY TRIP COIL MONITOR
IN	N5a/N5b	86B BREAKER FAILURE LOCKOUT MONITOR
IN	W1a/W1b	BREAKER POSITION
IN	W1b/W1c	BREAKER POSITION
IN	W1b/W2a	BREAKER POSITION
IN	W1b/W2c	BREAKER POSITION
IN	W3a/W3b	BREAKER POSITION
IN	W3b/W3c	BREAKER POSITION
IN	W3b/W4a	BANK A DIFFERENTIAL
IN	W3b/W4c	AOM A POSITION
IN	W5a/W5b	BKR POSITION A
IN	W5b/W5c	BANK B DIFFERENTIAL
IN	W5b/W6a	AOM B POSITION
IN	W5b/W6c	BKR POSITION B
IN	W7a/W7b	BANK C DIFFERENTIAL
IN	W7b/W7c	AOM C POSITION
IN	W7b/W8a	BKR POSITION C
IN	W7b/W8c	PRIMARY TRIP DC MONITOR
IN	N7a/N7b	ENABLE 1ST TEST
IN	N7b/N7c	ENABLE 2ND TEST
IN	N7b/N8a	RESET PUSHBUTTON
IN	N7b/N8c	SECONDARY TRIP DC MONITOR

GE B90 OUTPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

OUT	H1b/H1c	TRIP OUT
OUT	H2b/H2c	86B PRIMARY RESET
OUT	H3b/H3c	LOR FAIL
OUT	H4b/H4c	BUS RECLOSURE L.O.
OUT	H5b/H5c	AOM A TRIP
OUT	H5b/H6c	AOM B TRIP
OUT	U1b/U1c	TRIP OUT OSCILLOGRAPHIC CROSS
OUT	U2b/U2c	86B SECONDARY RESET NOT IN SERVICE
OUT	U3b/U3c	DTST OUT
OUT	U4b/U4c	DST OUT
OUT	U5b/U5c	AOM C TRIP
OUT	U6b/U6c	C1s TEST BREAKER NOT IN SERVICE

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78100

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78400D

87B-P22 CO TOGGLE SWITCH MS24525-23

CONTACTS	POSITIONS
1-2	X
2-3	X
4-5	X
5-6	X
7-8	X
8-9	X
10-11	X
11-12	X

MAINTAINED POSITIONS UP DOWN REMOTE LOCAL CLOSED OPEN

NOTE: 1. APPLY S(+) OR S(-) AS REQUIRED.

LEGEND: - SLIDING LINK TERMINALS, - LED INDICATING LIGHT

TYPICAL LABEL: WIRE LABEL, DEVICE DESIGNATION, ELEM. SHEET NUMBER, WIRE LABEL, TERMINAL NUMBER

AUTOCAD ELECTRICAL: THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES: 01-173-D111 PANEL #59 F.V. & NAMEPLATES, 01-173-D113 PANEL #59 AC ELEMENTARY DIAG., 01-173-D114 PANEL #59 WIRING DIAG., 01-173-H29 SINGLE LINE DIAGRAM, SH 1

GE B90 INPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

ELEMENT	CONTACT	FUNCTION
IN	H7a/H7b	87B CUTOFF POSITION
IN	H7b/H7c	86B PRIMARY POSITION
IN	N1a/N1b	86B PRIMARY TRIP COIL MONITOR
IN	U7a/U7b	87B CUTOFF POSITION NOT IN SERVICE
IN	U7b/U7c	86B SECONDARY POSITION FROM 487V PANEL
IN	U7b/U8a	86BFL0 POSITION
IN	N3a/N3b	86B SECONDARY TRIP COIL MONITOR
IN	N5a/N5b	86B BREAKER FAILURE LOCKOUT MONITOR
IN	W1a/W1b	BREAKER POSITION
IN	W1b/W1c	BREAKER POSITION
IN	W1b/W2a	BREAKER POSITION
IN	W1b/W2c	BREAKER POSITION
IN	W3a/W3b	BREAKER POSITION
IN	W3b/W3c	BREAKER POSITION
IN	W3b/W4a	BANK A DIFFERENTIAL
IN	W3b/W4c	AOM A POSITION
IN	W5a/W5b	BKR POSITION A
IN	W5b/W5c	BANK B DIFFERENTIAL
IN	W5b/W6a	AOM B POSITION
IN	W5b/W6c	BKR POSITION B
IN	W7a/W7b	BANK C DIFFERENTIAL
IN	W7b/W7c	AOM C POSITION
IN	W7b/W8a	BKR POSITION C
IN	W7b/W8c	PRIMARY TRIP DC MONITOR
IN	N7a/N7b	ENABLE 1ST TEST
IN	N7b/N7c	ENABLE 2ND TEST
IN	N7b/N8a	RESET PUSHBUTTON
IN	N7b/N8c	SECONDARY TRIP DC MONITOR

GE B90 OUTPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

OUT	H1b/H1c	TRIP OUT
OUT	H2b/H2c	86B PRIMARY RESET
OUT	H3b/H3c	LOR FAIL
OUT	H4b/H4c	BUS RECLOSURE L.O.
OUT	H5b/H5c	AOM A TRIP
OUT	H5b/H6c	AOM B TRIP
OUT	U1b/U1c	TRIP OUT OSCILLOGRAPHIC CROSS
OUT	U2b/U2c	86B SECONDARY RESET NOT IN SERVICE
OUT	U3b/U3c	DTST OUT
OUT	U4b/U4c	DST OUT
OUT	U5b/U5c	AOM C TRIP
OUT	U6b/U6c	C1s TEST BREAKER NOT IN SERVICE

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78100

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78400D

87B-P22 CO TOGGLE SWITCH MS24525-23

CONTACTS	POSITIONS
1-2	X
2-3	X
4-5	X
5-6	X
7-8	X
8-9	X
10-11	X
11-12	X

MAINTAINED POSITIONS UP DOWN REMOTE LOCAL CLOSED OPEN

NOTE: 1. APPLY S(+) OR S(-) AS REQUIRED.

LEGEND: - SLIDING LINK TERMINALS, - LED INDICATING LIGHT

TYPICAL LABEL: WIRE LABEL, DEVICE DESIGNATION, ELEM. SHEET NUMBER, WIRE LABEL, TERMINAL NUMBER

AUTOCAD ELECTRICAL: THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES: 01-173-D111 PANEL #59 F.V. & NAMEPLATES, 01-173-D113 PANEL #59 AC ELEMENTARY DIAG., 01-173-D114 PANEL #59 WIRING DIAG., 01-173-H29 SINGLE LINE DIAGRAM, SH 1

GE B90 INPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

ELEMENT	CONTACT	FUNCTION
IN	H7a/H7b	87B CUTOFF POSITION
IN	H7b/H7c	86B PRIMARY POSITION
IN	N1a/N1b	86B PRIMARY TRIP COIL MONITOR
IN	U7a/U7b	87B CUTOFF POSITION NOT IN SERVICE
IN	U7b/U7c	86B SECONDARY POSITION FROM 487V PANEL
IN	U7b/U8a	86BFL0 POSITION
IN	N3a/N3b	86B SECONDARY TRIP COIL MONITOR
IN	N5a/N5b	86B BREAKER FAILURE LOCKOUT MONITOR
IN	W1a/W1b	BREAKER POSITION
IN	W1b/W1c	BREAKER POSITION
IN	W1b/W2a	BREAKER POSITION
IN	W1b/W2c	BREAKER POSITION
IN	W3a/W3b	BREAKER POSITION
IN	W3b/W3c	BREAKER POSITION
IN	W3b/W4a	BANK A DIFFERENTIAL
IN	W3b/W4c	AOM A POSITION
IN	W5a/W5b	BKR POSITION A
IN	W5b/W5c	BANK B DIFFERENTIAL
IN	W5b/W6a	AOM B POSITION
IN	W5b/W6c	BKR POSITION B
IN	W7a/W7b	BANK C DIFFERENTIAL
IN	W7b/W7c	AOM C POSITION
IN	W7b/W8a	BKR POSITION C
IN	W7b/W8c	PRIMARY TRIP DC MONITOR
IN	N7a/N7b	ENABLE 1ST TEST
IN	N7b/N7c	ENABLE 2ND TEST
IN	N7b/N8a	RESET PUSHBUTTON
IN	N7b/N8c	SECONDARY TRIP DC MONITOR

GE B90 OUTPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

OUT	H1b/H1c	TRIP OUT
OUT	H2b/H2c	86B PRIMARY RESET
OUT	H3b/H3c	LOR FAIL
OUT	H4b/H4c	BUS RECLOSURE L.O.
OUT	H5b/H5c	AOM A TRIP
OUT	H5b/H6c	AOM B TRIP
OUT	U1b/U1c	TRIP OUT OSCILLOGRAPHIC CROSS
OUT	U2b/U2c	86B SECONDARY RESET NOT IN SERVICE
OUT	U3b/U3c	DTST OUT
OUT	U4b/U4c	DST OUT
OUT	U5b/U5c	AOM C TRIP
OUT	U6b/U6c	C1s TEST BREAKER NOT IN SERVICE

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78100

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78400D

87B-P22 CO TOGGLE SWITCH MS24525-23

CONTACTS	POSITIONS
1-2	X
2-3	X
4-5	X
5-6	X
7-8	X
8-9	X
10-11	X
11-12	X

MAINTAINED POSITIONS UP DOWN REMOTE LOCAL CLOSED OPEN

NOTE: 1. APPLY S(+) OR S(-) AS REQUIRED.

LEGEND: - SLIDING LINK TERMINALS, - LED INDICATING LIGHT

TYPICAL LABEL: WIRE LABEL, DEVICE DESIGNATION, ELEM. SHEET NUMBER, WIRE LABEL, TERMINAL NUMBER

AUTOCAD ELECTRICAL: THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES: 01-173-D111 PANEL #59 F.V. & NAMEPLATES, 01-173-D113 PANEL #59 AC ELEMENTARY DIAG., 01-173-D114 PANEL #59 WIRING DIAG., 01-173-H29 SINGLE LINE DIAGRAM, SH 1

GE B90 INPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

ELEMENT	CONTACT	FUNCTION
IN	H7a/H7b	87B CUTOFF POSITION
IN	H7b/H7c	86B PRIMARY POSITION
IN	N1a/N1b	86B PRIMARY TRIP COIL MONITOR
IN	U7a/U7b	87B CUTOFF POSITION NOT IN SERVICE
IN	U7b/U7c	86B SECONDARY POSITION FROM 487V PANEL
IN	U7b/U8a	86BFL0 POSITION
IN	N3a/N3b	86B SECONDARY TRIP COIL MONITOR
IN	N5a/N5b	86B BREAKER FAILURE LOCKOUT MONITOR
IN	W1a/W1b	BREAKER POSITION
IN	W1b/W1c	BREAKER POSITION
IN	W1b/W2a	BREAKER POSITION
IN	W1b/W2c	BREAKER POSITION
IN	W3a/W3b	BREAKER POSITION
IN	W3b/W3c	BREAKER POSITION
IN	W3b/W4a	BANK A DIFFERENTIAL
IN	W3b/W4c	AOM A POSITION
IN	W5a/W5b	BKR POSITION A
IN	W5b/W5c	BANK B DIFFERENTIAL
IN	W5b/W6a	AOM B POSITION
IN	W5b/W6c	BKR POSITION B
IN	W7a/W7b	BANK C DIFFERENTIAL
IN	W7b/W7c	AOM C POSITION
IN	W7b/W8a	BKR POSITION C
IN	W7b/W8c	PRIMARY TRIP DC MONITOR
IN	N7a/N7b	ENABLE 1ST TEST
IN	N7b/N7c	ENABLE 2ND TEST
IN	N7b/N8a	RESET PUSHBUTTON
IN	N7b/N8c	SECONDARY TRIP DC MONITOR

GE B90 OUTPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

OUT	H1b/H1c	TRIP OUT
OUT	H2b/H2c	86B PRIMARY RESET
OUT	H3b/H3c	LOR FAIL
OUT	H4b/H4c	BUS RECLOSURE L.O.
OUT	H5b/H5c	AOM A TRIP
OUT	H5b/H6c	AOM B TRIP
OUT	U1b/U1c	TRIP OUT OSCILLOGRAPHIC CROSS
OUT	U2b/U2c	86B SECONDARY RESET NOT IN SERVICE
OUT	U3b/U3c	DTST OUT
OUT	U4b/U4c	DST OUT
OUT	U5b/U5c	AOM C TRIP
OUT	U6b/U6c	C1s TEST BREAKER NOT IN SERVICE

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78100

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78400D

87B-P22 CO TOGGLE SWITCH MS24525-23

CONTACTS	POSITIONS
1-2	X
2-3	X
4-5	X
5-6	X
7-8	X
8-9	X
10-11	X
11-12	X

MAINTAINED POSITIONS UP DOWN REMOTE LOCAL CLOSED OPEN

NOTE: 1. APPLY S(+) OR S(-) AS REQUIRED.

LEGEND: - SLIDING LINK TERMINALS, - LED INDICATING LIGHT

TYPICAL LABEL: WIRE LABEL, DEVICE DESIGNATION, ELEM. SHEET NUMBER, WIRE LABEL, TERMINAL NUMBER

AUTOCAD ELECTRICAL: THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES: 01-173-D111 PANEL #59 F.V. & NAMEPLATES, 01-173-D113 PANEL #59 AC ELEMENTARY DIAG., 01-173-D114 PANEL #59 WIRING DIAG., 01-173-H29 SINGLE LINE DIAGRAM, SH 1

GE B90 INPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

ELEMENT	CONTACT	FUNCTION
IN	H7a/H7b	87B CUTOFF POSITION
IN	H7b/H7c	86B PRIMARY POSITION
IN	N1a/N1b	86B PRIMARY TRIP COIL MONITOR
IN	U7a/U7b	87B CUTOFF POSITION NOT IN SERVICE
IN	U7b/U7c	86B SECONDARY POSITION FROM 487V PANEL
IN	U7b/U8a	86BFL0 POSITION
IN	N3a/N3b	86B SECONDARY TRIP COIL MONITOR
IN	N5a/N5b	86B BREAKER FAILURE LOCKOUT MONITOR
IN	W1a/W1b	BREAKER POSITION
IN	W1b/W1c	BREAKER POSITION
IN	W1b/W2a	BREAKER POSITION
IN	W1b/W2c	BREAKER POSITION
IN	W3a/W3b	BREAKER POSITION
IN	W3b/W3c	BREAKER POSITION
IN	W3b/W4a	BANK A DIFFERENTIAL
IN	W3b/W4c	AOM A POSITION
IN	W5a/W5b	BKR POSITION A
IN	W5b/W5c	BANK B DIFFERENTIAL
IN	W5b/W6a	AOM B POSITION
IN	W5b/W6c	BKR POSITION B
IN	W7a/W7b	BANK C DIFFERENTIAL
IN	W7b/W7c	AOM C POSITION
IN	W7b/W8a	BKR POSITION C
IN	W7b/W8c	PRIMARY TRIP DC MONITOR
IN	N7a/N7b	ENABLE 1ST TEST
IN	N7b/N7c	ENABLE 2ND TEST
IN	N7b/N8a	RESET PUSHBUTTON
IN	N7b/N8c	SECONDARY TRIP DC MONITOR

GE B90 OUTPUTS (BUS DIFFERENTIAL) I/O ASSIGNMENTS

OUT	H1b/H1c	TRIP OUT
OUT	H2b/H2c	86B PRIMARY RESET
OUT	H3b/H3c	LOR FAIL
OUT	H4b/H4c	BUS RECLOSURE L.O.
OUT	H5b/H5c	AOM A TRIP
OUT	H5b/H6c	AOM B TRIP
OUT	U1b/U1c	TRIP OUT OSCILLOGRAPHIC CROSS
OUT	U2b/U2c	86B SECONDARY RESET NOT IN SERVICE
OUT	U3b/U3c	DTST OUT
OUT	U4b/U4c	DST OUT
OUT	U5b/U5c	AOM C TRIP
OUT	U6b/U6c	C1s TEST BREAKER NOT IN SERVICE

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
1	011-13	X
1	012-18	X
1	015-17	X
1	014-18	X
2	021-23	X
2	022-28	X
2	025-27	X
2	026-24	X
10	0101-103	X
10	0102-108	X
10	0105-102	X
10	0106-104	X
CONT	0107-109	X

ELECTROSWITCH #78100

"86BFL0" LOR RELAY

DECK	CONTACTS	POSITION
------	----------	----------



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

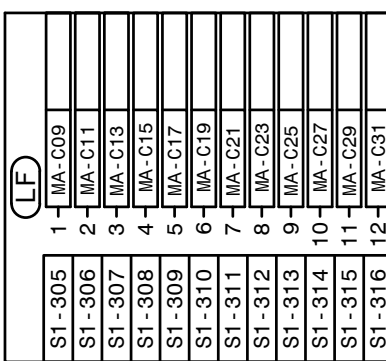
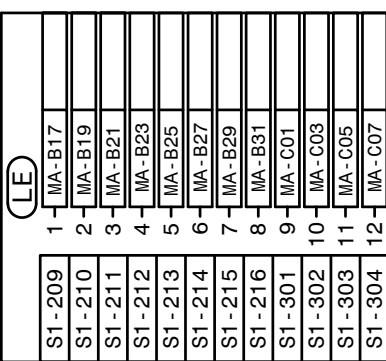
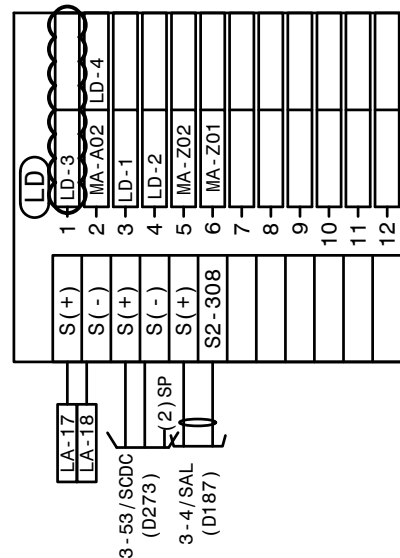
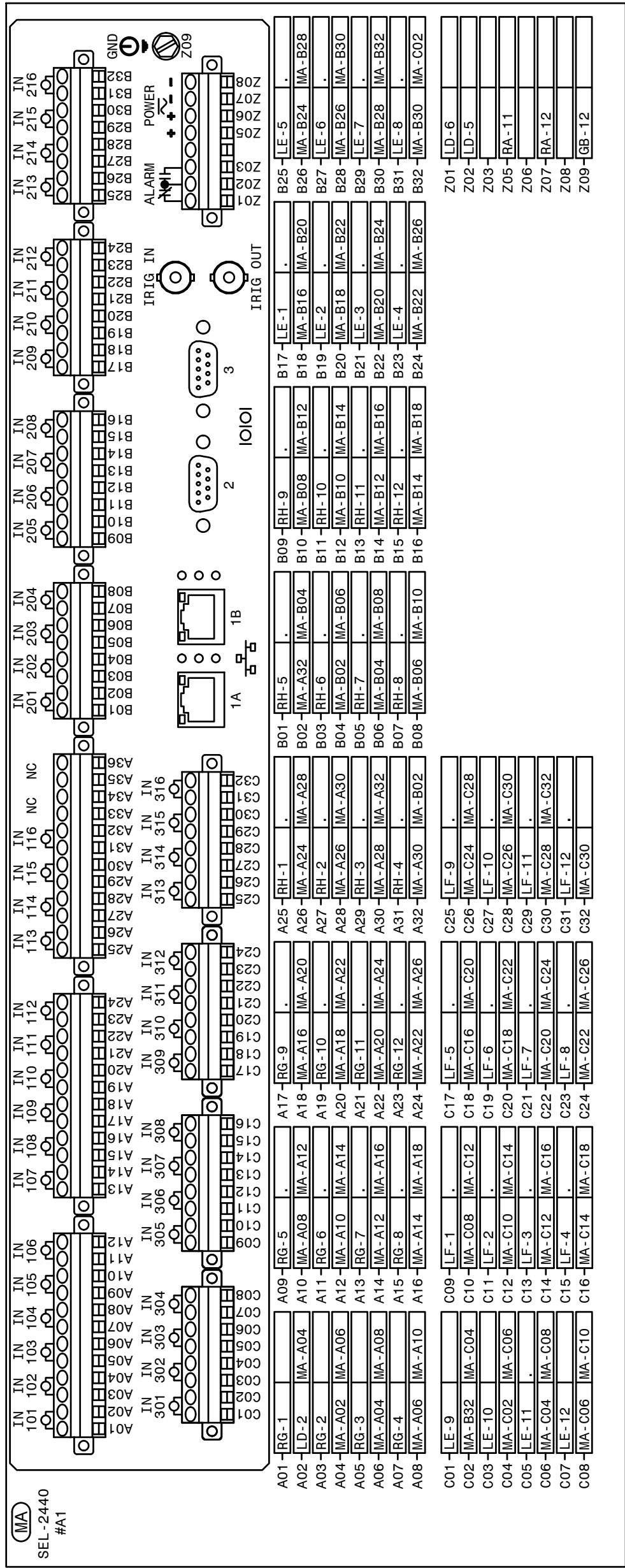
P. I. #1899807

**BURNS
MCDONNELL**

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

Burns & McDonnell Engineering Co. Inc.
GA ENGINEERING LICENSE: PE7000190
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED 06/06/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS1,5,6,3.




* IF RADIO NOT REQUIRED, LEAVE PORT BLANK

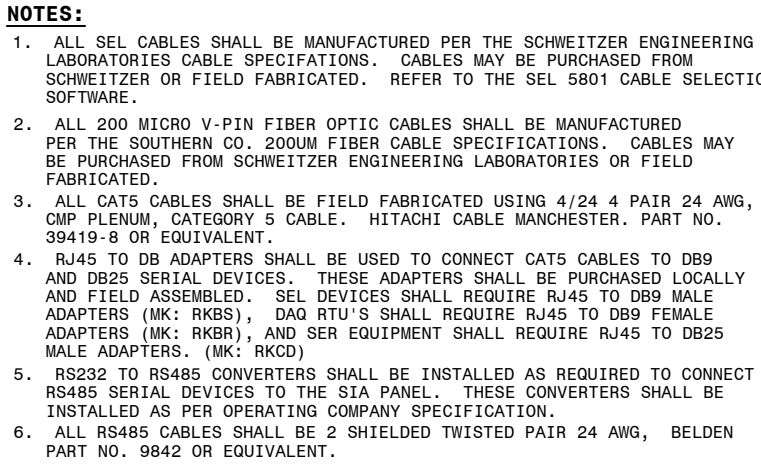
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES:

01-173-D182
01-173-D186
01-173-D187
01-173-D277
01-173-D278

PANEL #3 FRONT VIEW, IT PANEL
SIA COMMUNICATION CONNECTION DIAGRAM
PANEL #4 WIRING DIAGRAM TRANSMISSION SIA PANEL
PANEL #3 ELEMENTARY DIAGRAM SH. 1, IT PANEL
PANEL #3 ELEMENTARY DIAGRAM SH. 2, IT PANEL

	FACILITY NAME:							MCGRAU FORD TS		
	TITLE: PANEL #3 WIRING DIAGRAM, IT PANEL									
	DRAWN:									
	CHECKED:	TYPE:	WD	FACILITY #:	NUMBER:	SHEET:	REV:			
	APPROVED:	SCALE:	N.T.S.	01 - 173	D	184	- 001 - 13			
DATE: 5/14/2008		BOM:								
ASC FACIS:						ALT DWG NUM:				




PREFERENCES:	
-173-182	PANEL #2 FRONT VIEW, TRANSMISSION SIA PANEL
-173-190	PANEL #3 FRONT VIEW, TRANSMISSION SIA PANEL
-173-192	PANEL #3 FRONT VIEW SH. 1 IT PANEL
-173-198A	PANEL #2 WIRING DIAGRAM, IT PANEL
-173-198B	PANEL #4 FRONT VIEW 500KV TRANSMISSION SIA PANEL
-173-199	PANEL #4 WIRING DIAGRAM SH. 1 TRANSMISSION SIA PANEL
-173-205	PANEL #1 ELEMENTARY DIAGRAM SH. 1 TRANSMISSION SIA PANEL
-173-206	PANEL #3 ELEMENTARY DIAGRAM SH. 1 IT PANEL
-173-207	PANEL #3 ELEMENTARY DIAGRAM SH. 2 IT PANEL
-173-209	PANEL #2 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL
-173-209E	PANEL #2 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL

**BURNS
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PHONE: (770)587-4776

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

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

		FACILITY NAME:				MCGRAU FORD TS			
SOUTHERN COMPANY		TITLE: SIA COMMUNICATION CONNECTION DIAGRAM							
DRAWN: AJW		TYPE: SIA		FACILITY #:		NUMBER:		SHEET: REV:	
APPROVED: AJW		SCALE: N.T.S.		01-173		D-186		- 001 - 14	
DATE: 7/31/2006		BOM:							
ASC FACs:						ALT DWG NUM:			

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.

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 POWER

A SOUTHERN COMPANY

CHECKED: AJW

APPROVED: AJW

DATE: 7/31/2006

FACILITY NAME:

MCGRAU FORD TS

TITLE: PANEL #4 WIRING DIAGRAM TRANSMISSION SIA PANEL

FACILITY #:

01-173

TYPE: WD

SCALE: N.T.S.

DATE: 7/31/2006

NUMBER: 187

SHEET: 12

REV: 001-12

ASCC FACs:

ALT DWG NUM:

REFERENCES:
01-173-D184
01-173-D185
01-173-D186
01-173-D248
01-173-D249
01-173-D249
PANEL #3 WIRING DIAGRAM, IT PANEL
PANEL #4 FRONT VIEW 500kV TRANSMISSION SIA PANEL
SIA COMMUNICATION CONN. DIAGRAM
ELEMENTARY DIAGRAM SH. 1 TRANSMISSION SIA PANEL
ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL

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

GEORGIA POWER
A SOUTHERN COMPANY

DRAWN: JLC
CHECKED: AJW
APPROVED: BOW
DATE: 05-30-2005

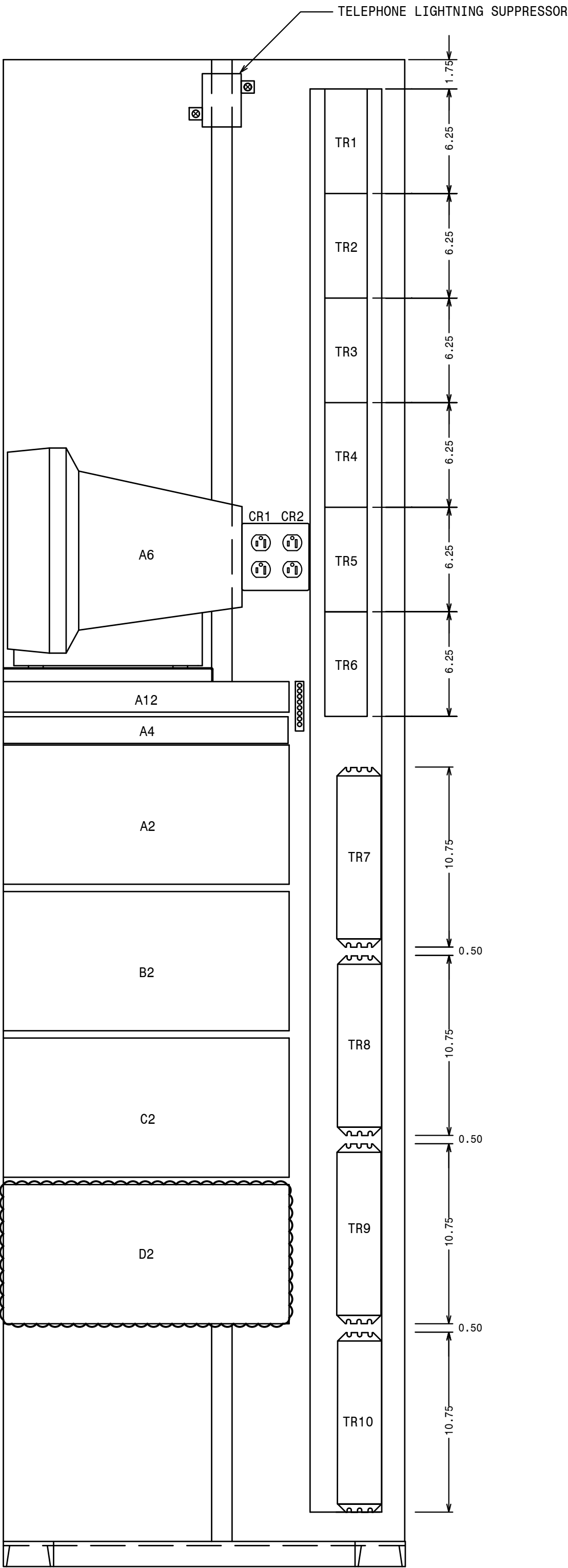
TYPE: FV
SCALE: N.T.S.
FACILITY #: 01-173

NUMBER: 205
SHEET: 001 - 00
REV:

ASC FACs:

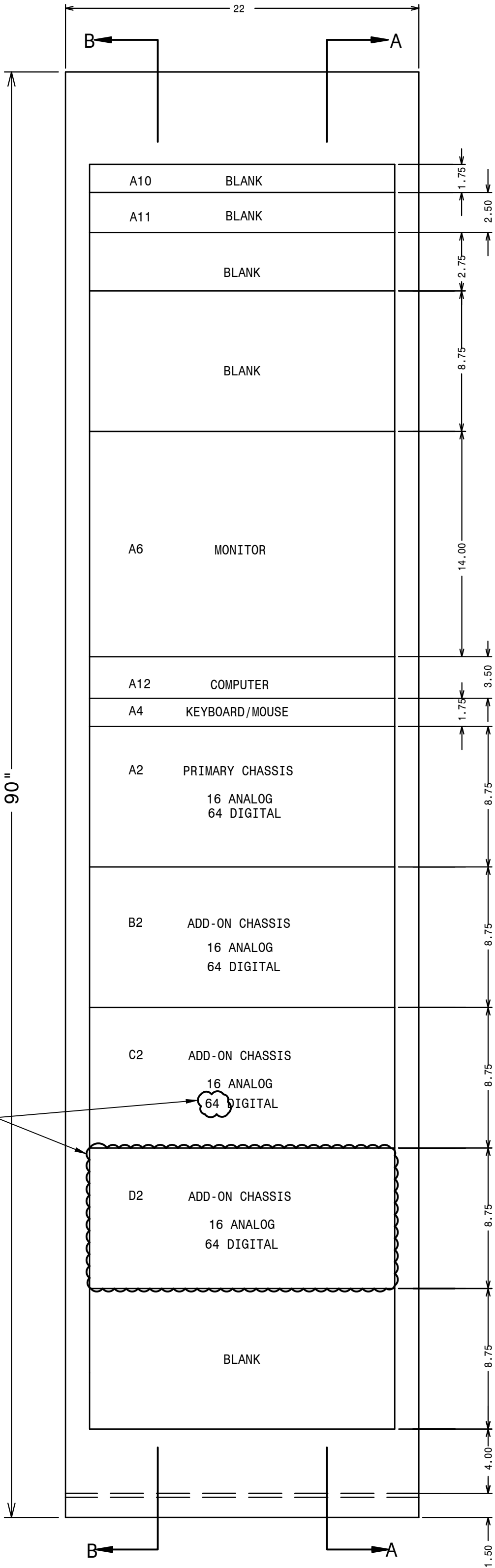
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FOR REFERENCE



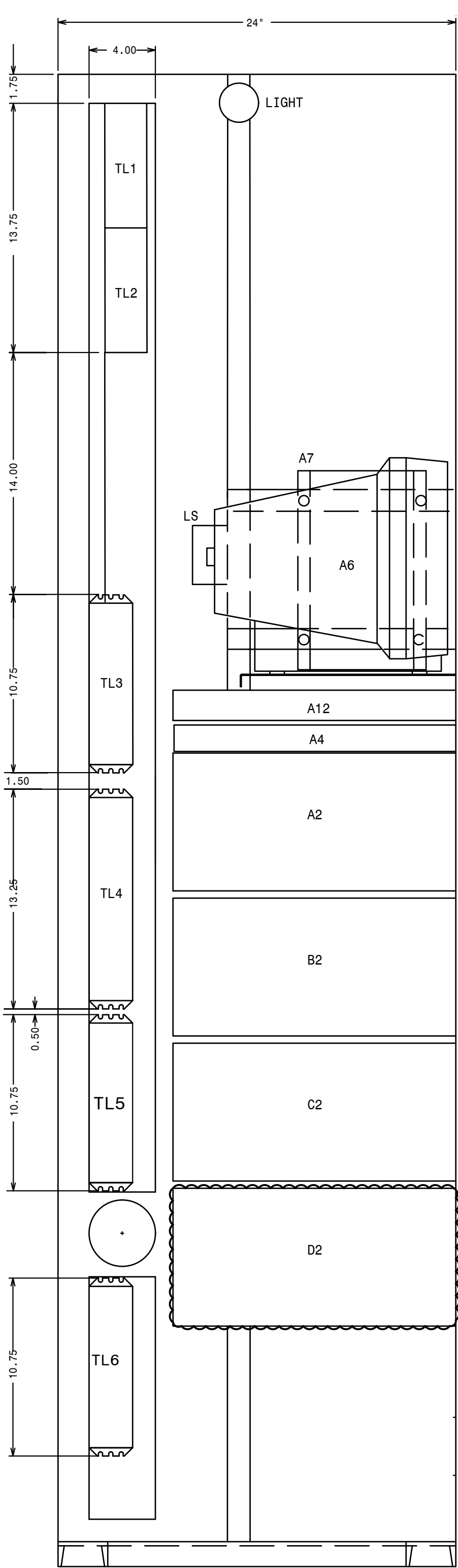
SECTION BB

FOR REFERENCE



FRONT VIEW

MK: RHSV



SECTION AA

P.I.#1899807

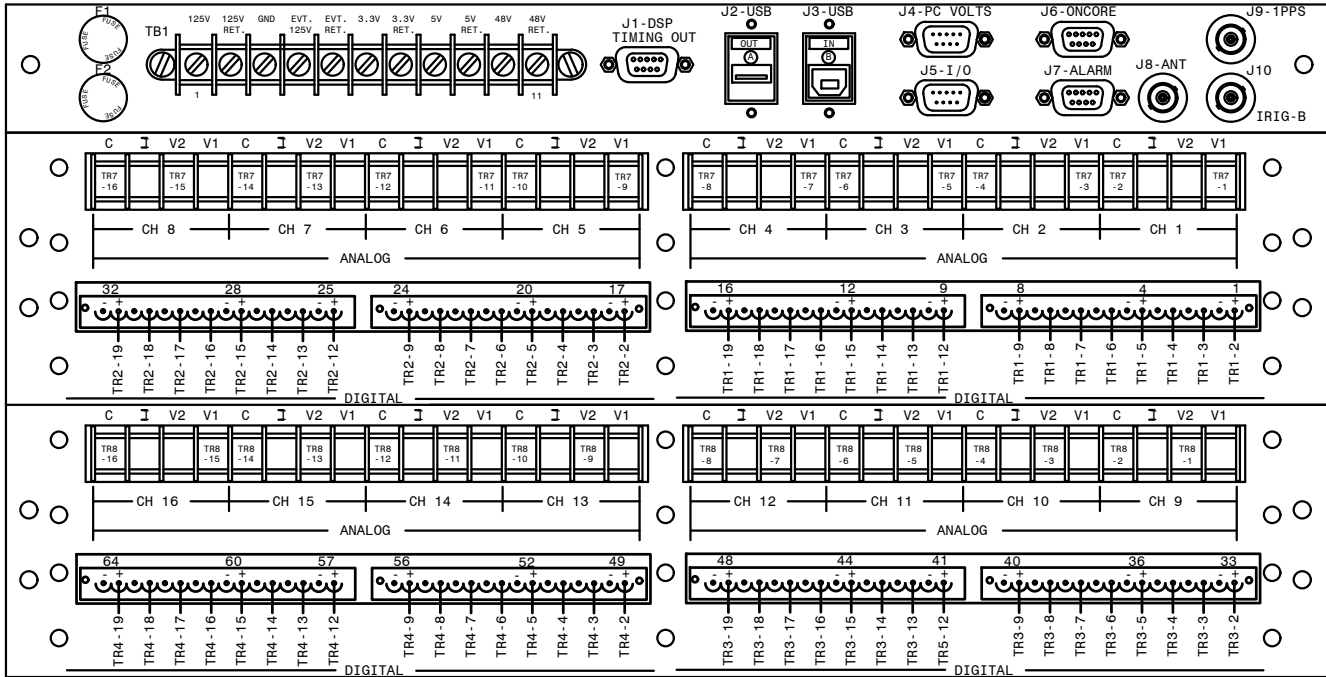
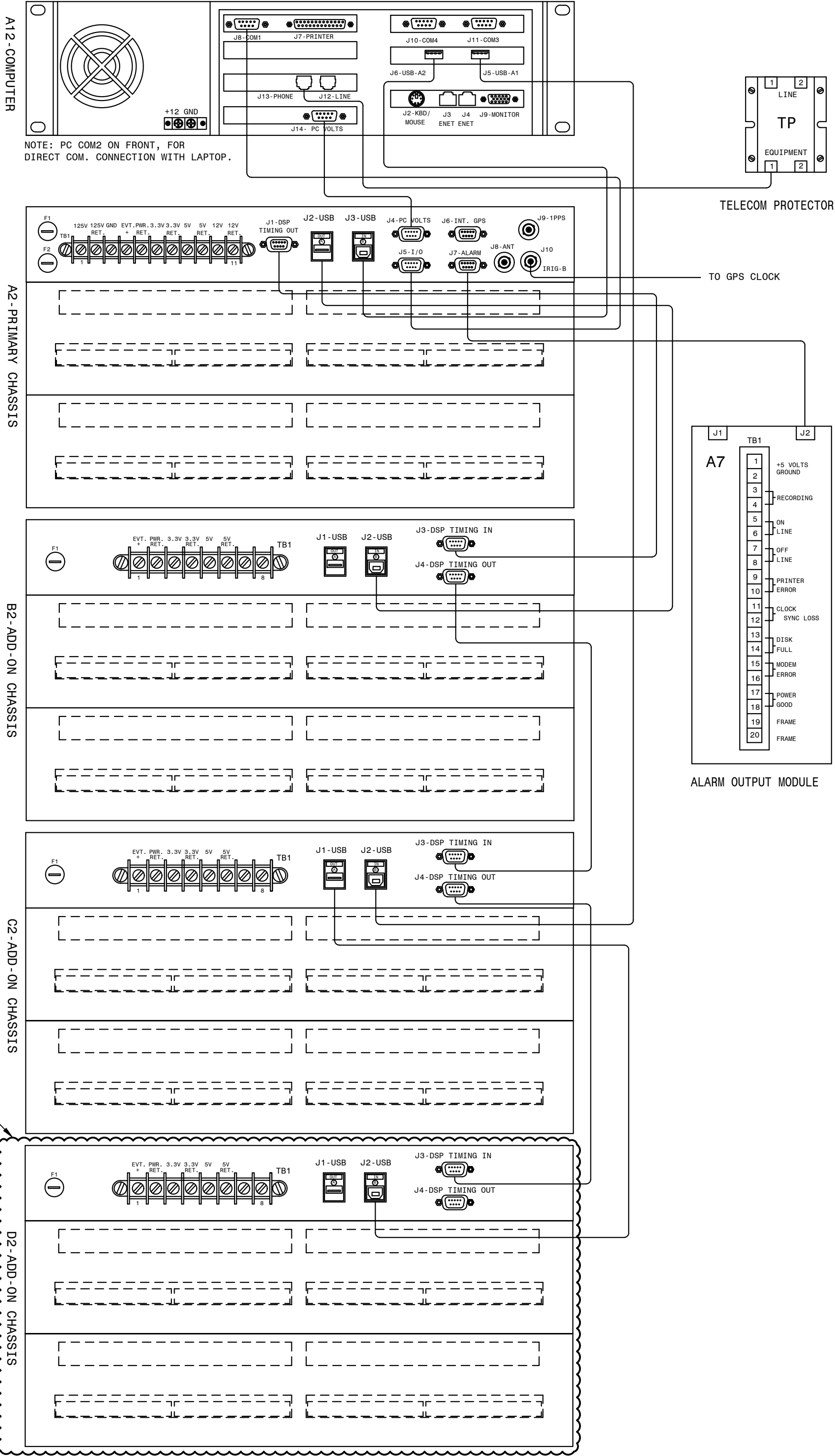
BURNS & MCDONNELL
4004 SUMMIT BLVD., NE, SUITE 1200
ATLANTA, GA 30319
PHONE: (770) 887-4776
Burns & McDonnell Engineering Co. Inc.
GA ENGINEERING LICENSE #EP000100
EXPIRATION DATE: 6/30/2025
THE REGISTRANT OF THE NEWLY APPLIED
SEAL DATED 2/26/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS (JLL).

PI: 01 EG SW AA 9/16/2024 PI: 1899807
SEE NOTES 2 AND 3.

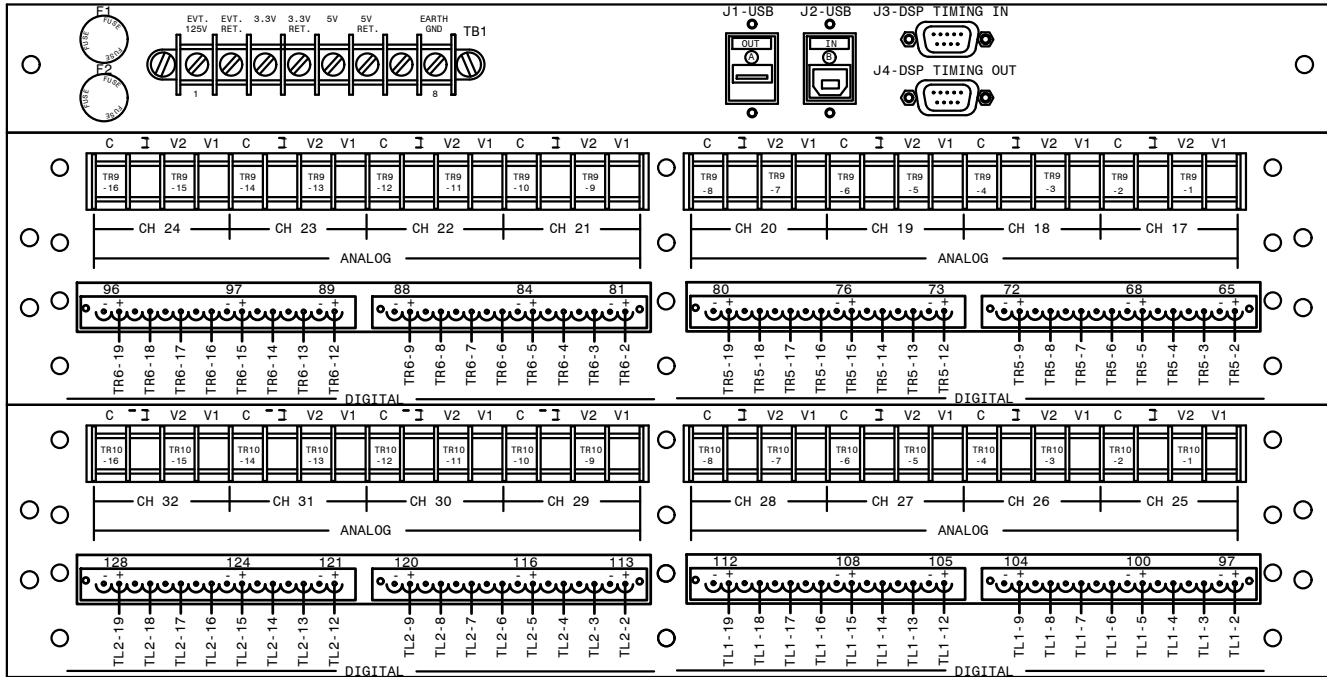
INTERCONNECTING CABLES LIST		
A12-J6 TO A2-J3	A12 COMPUTER USB (A2)	TO PRIMARY CHASSIS USB (B)
A12-J5 TO A2-J2	A12 COMPUTER USB (A1)	TO PRIMARY CHASSIS USB (B)
A12-J14 TO A2-J4	COMPUTER PC VOLTS TO PRIMARY CHASSIS	
A12-J8 TO A2-J5	COMPUTER COM1 TO PRIMARY CHASSIS I/O PORT	
A12-J13 TO A11	PORT 1-8 COMPUTER 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

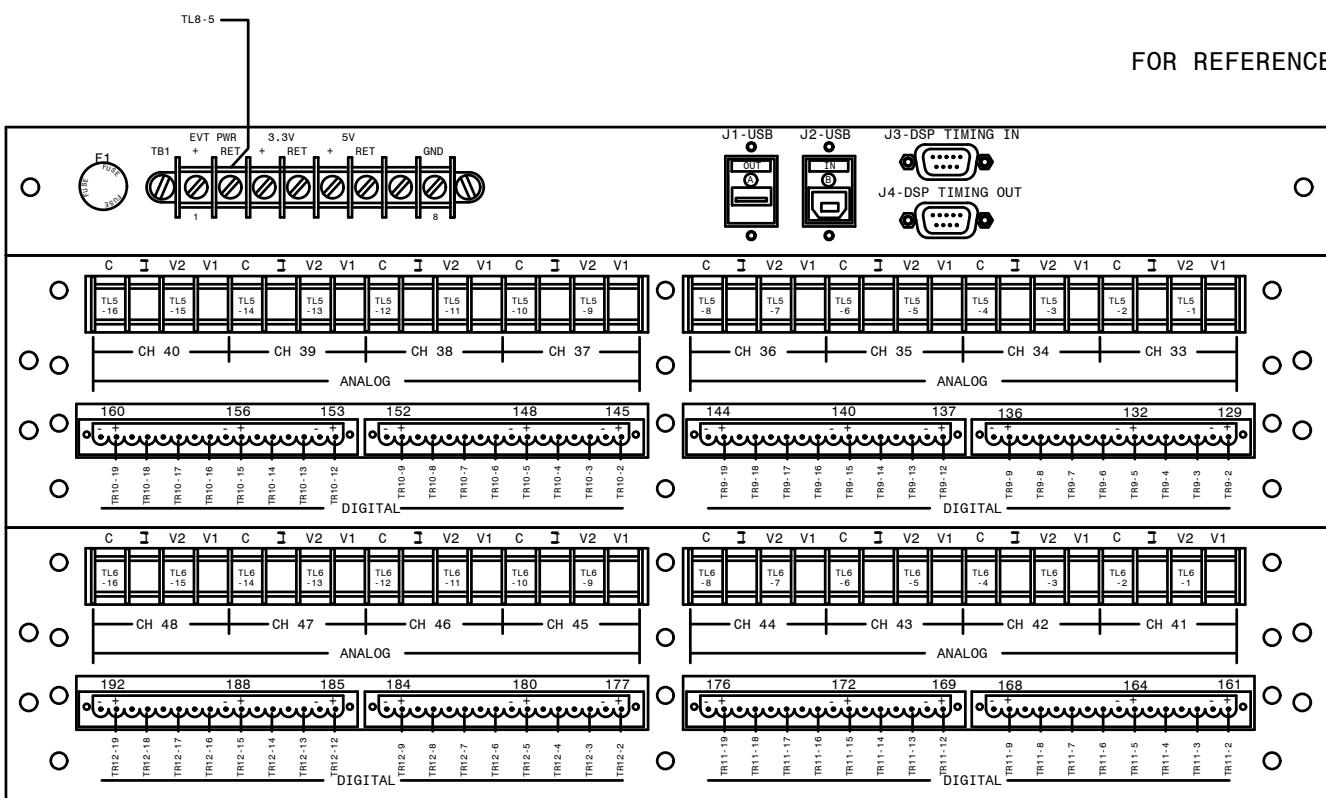
FOR REFERENCE



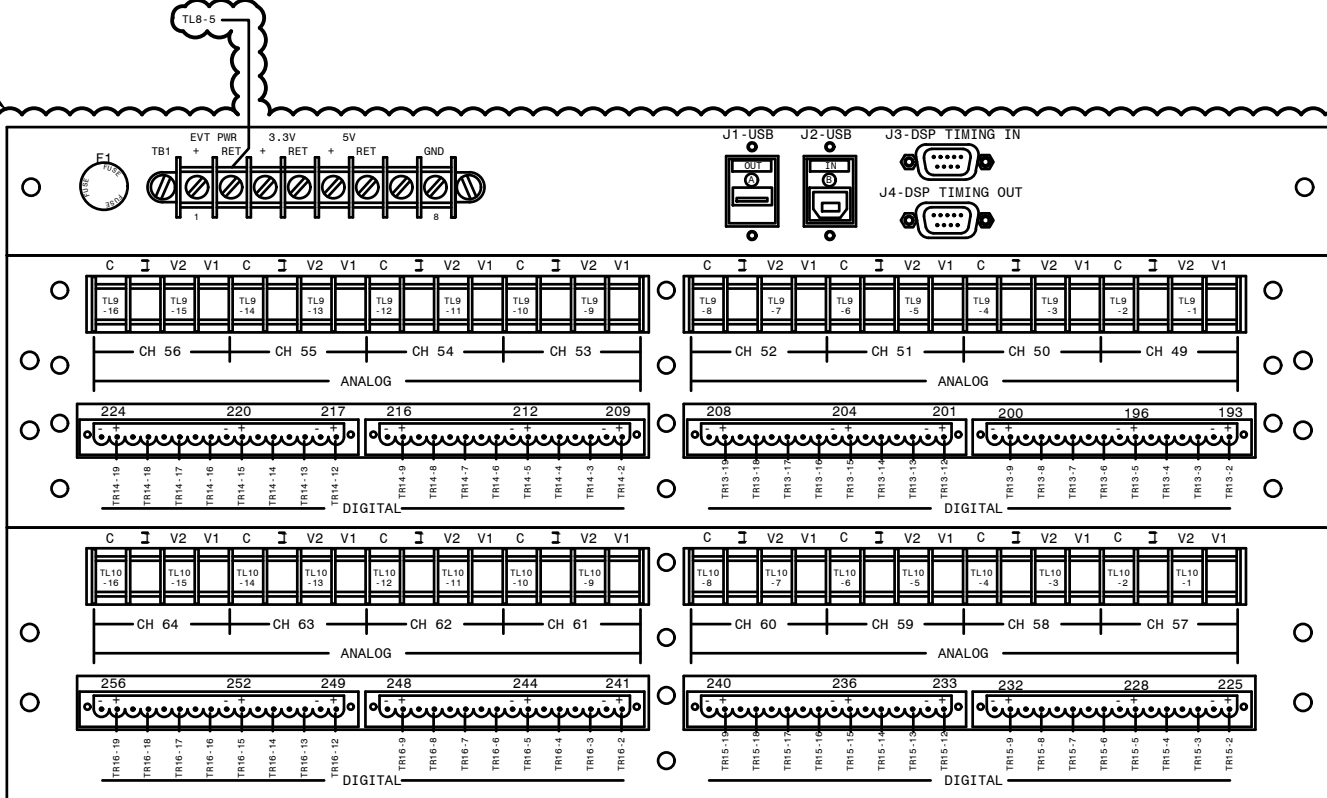
(A2)



(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



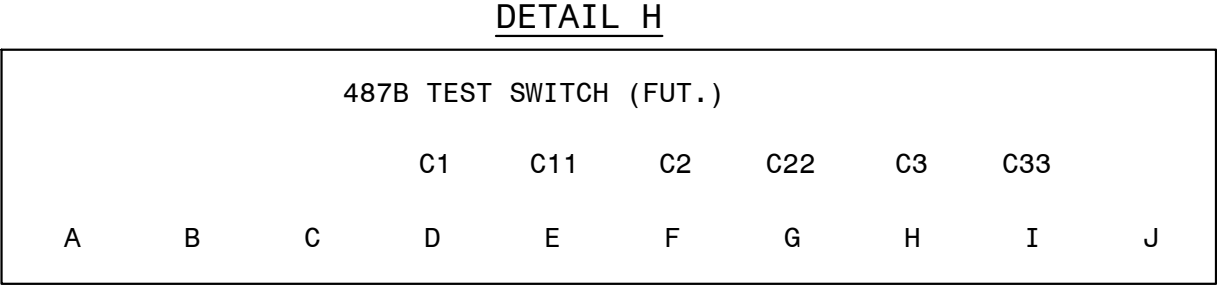
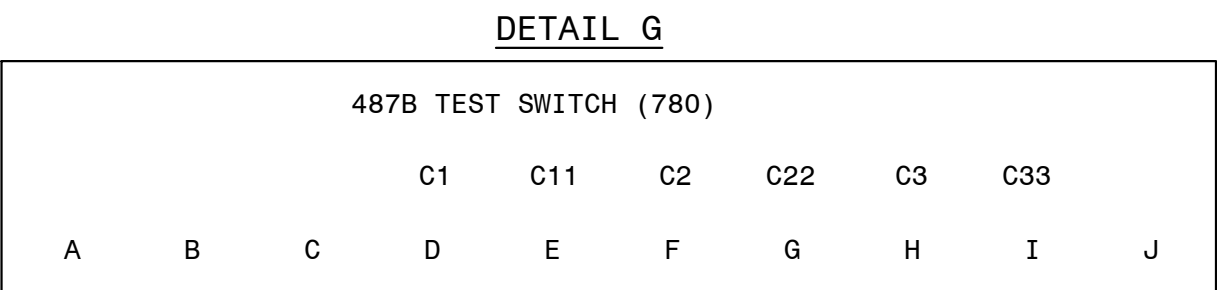
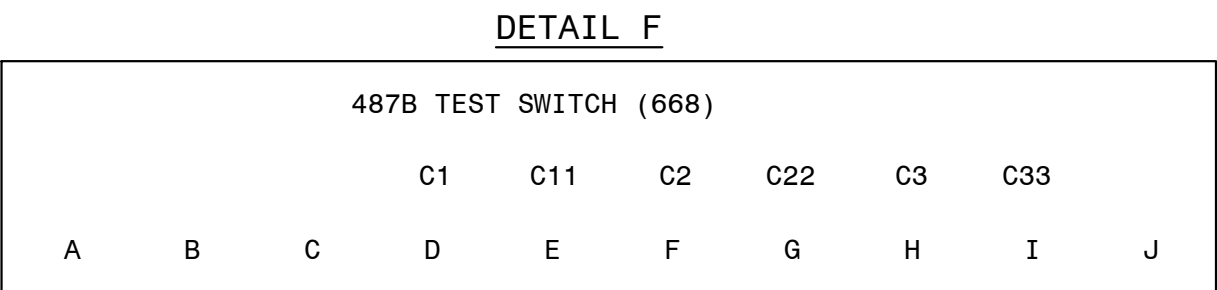
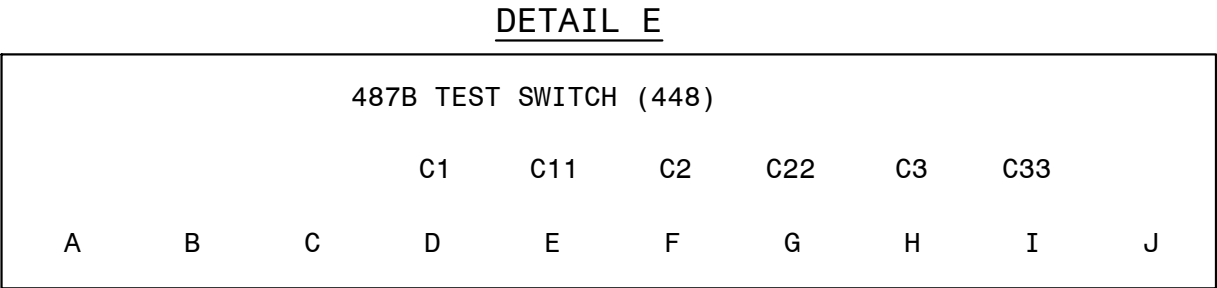
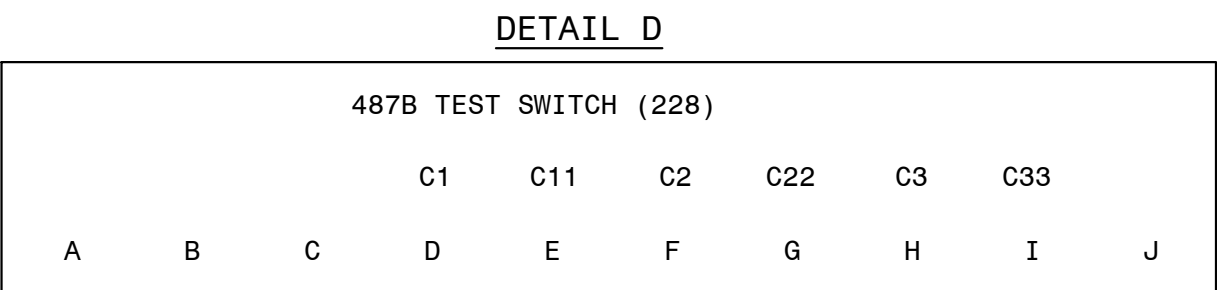
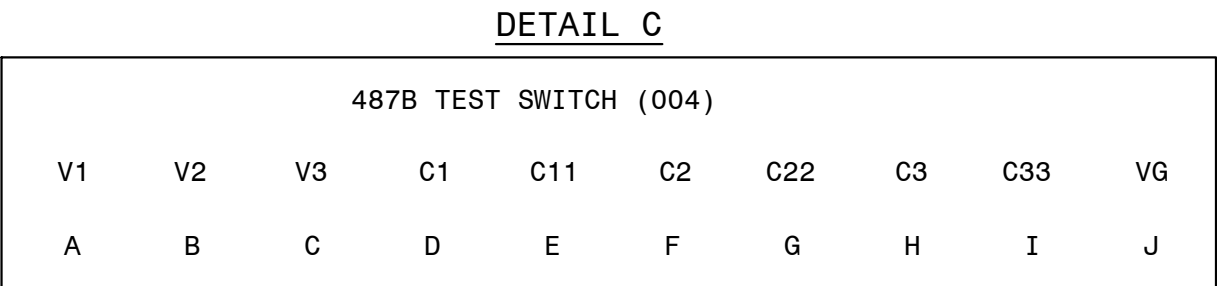
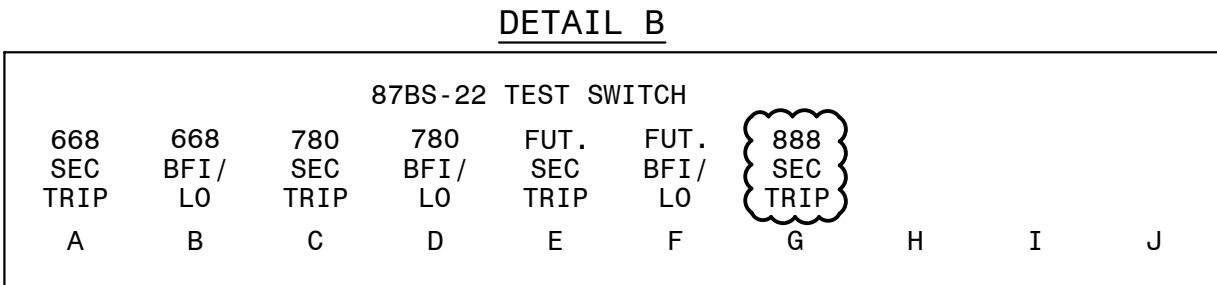
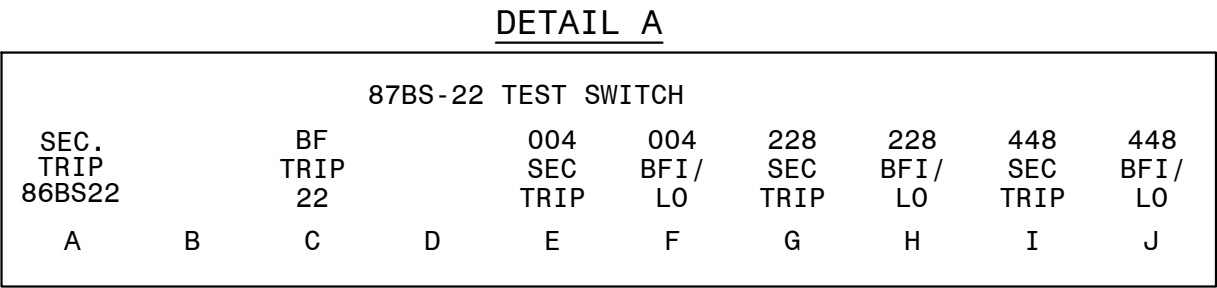
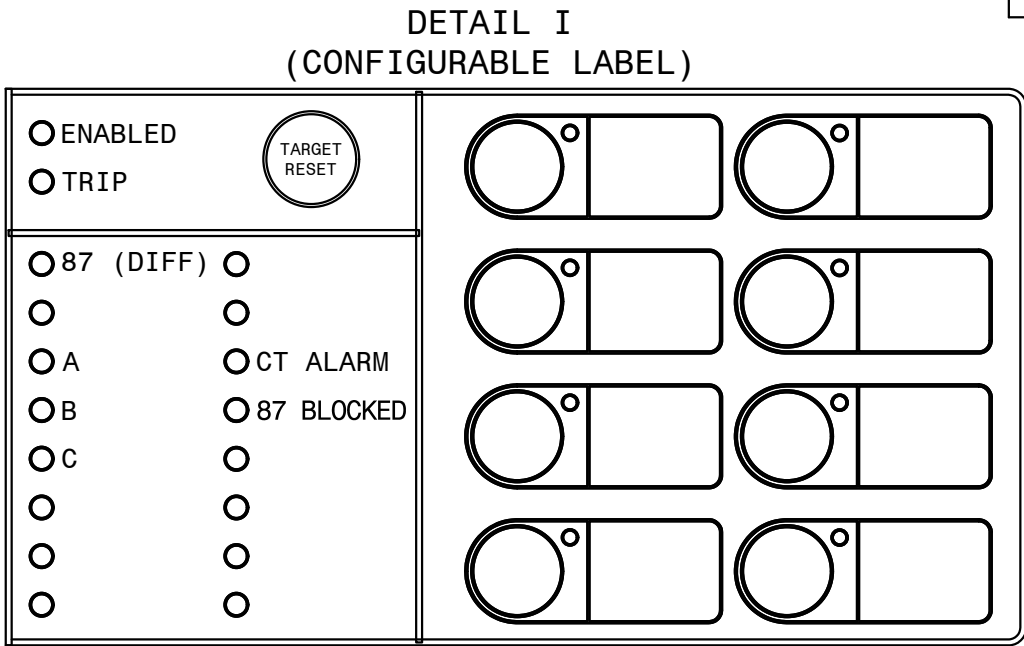
THE REGISTRANT OF THE NEWLY APPLIED SEAL DATED 2/22/2024, ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISIONS:

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		206	
DATE: 08/25/2005		ASC FAC:		SHEET: REV:	
				- 001 -	
				ALT DWG NUM:	

<div><div><div>GEORGIA</div><div>POWER</div><div>A SOUTHERN COMPANY</div></div></div>	FACILITY NAME:										MCGRAU FORD TS														
	TITLE: 230KV YARD STATION SERVICE & THROWOVER CABINET #1																								
	DRAWN: JLC					TYPE: WD					FACILITY #:					NUMBER:					SHEET: REV:				
	CHECKED: RLJ					SCALE: NTS					01-173					D- 215					- 001 - 03				
APPROVED: AJW					BOM:																				
DATE: 07-18-05					ASC, FACS:										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, 888		
4					
5	87BS-22 COUTOUT 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
1		RHCN	SWITCHBOARD ANGLE FRAME 27" X 90" X 21"	DWG. PAN-CONST-D2
1	AB	RG1J	INDICATING LIGHT, NEON, ET-17, COMPLETE	
1	AC	RGQE	REL-AUX 2NO-2NC/DECK 10 DECK, LOR/ER, 30-140VDC	EC #7840DD
1	AD	RHHS	SWITCH, TOGGLE, 4PDT	MICROSWITCH #4TL1-3
1	AF	RICJ	REL-CURRENT DIFF. TYPE SEL-487B, MICROPROC. BASED	SEL 0487B04SX2XEEXX7
3	AG	RGWV	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-2206-ST OR ABB SS46014NN014BX00N
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	

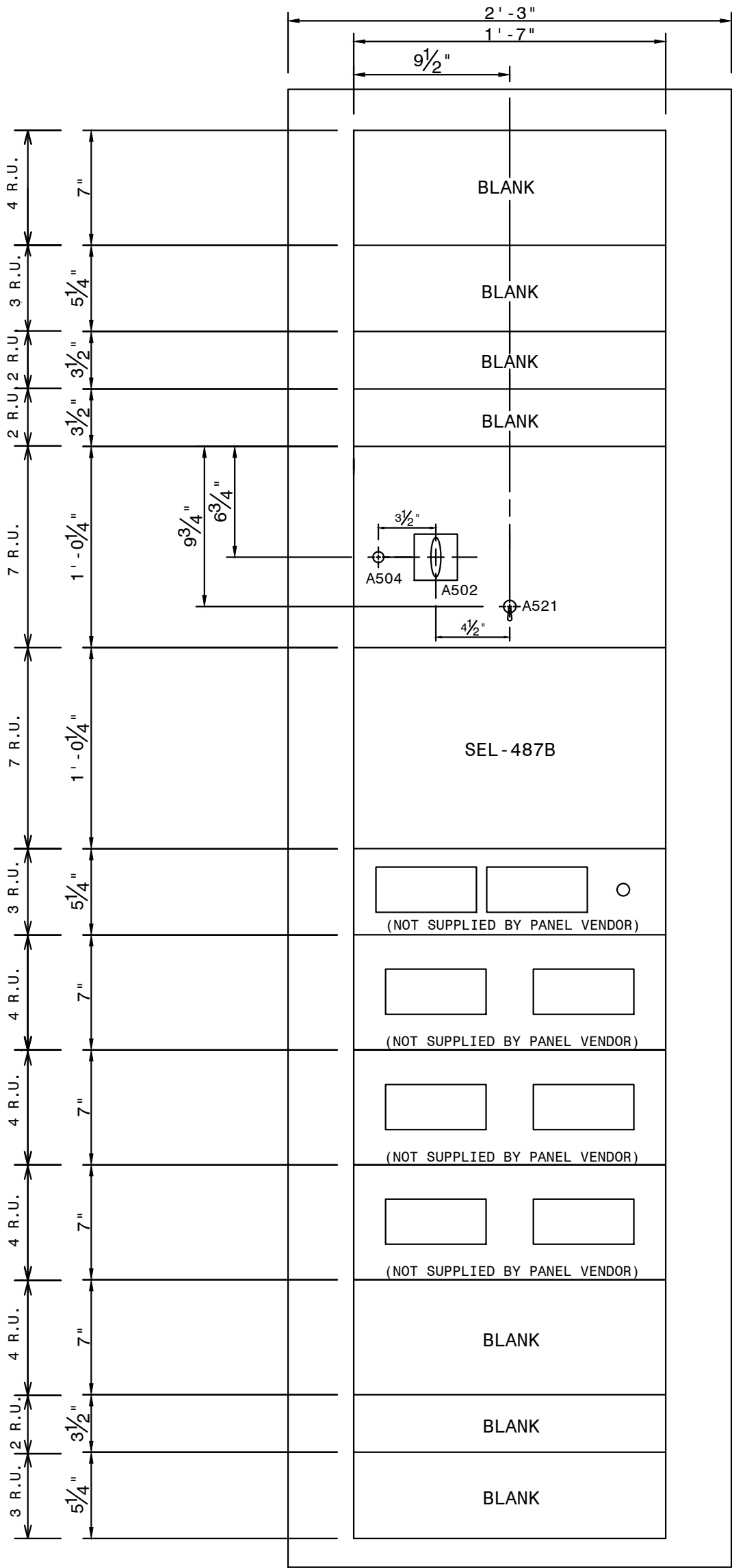


NOTES:
1. CABLE ENTRY IS FROM TOP OF PANEL.

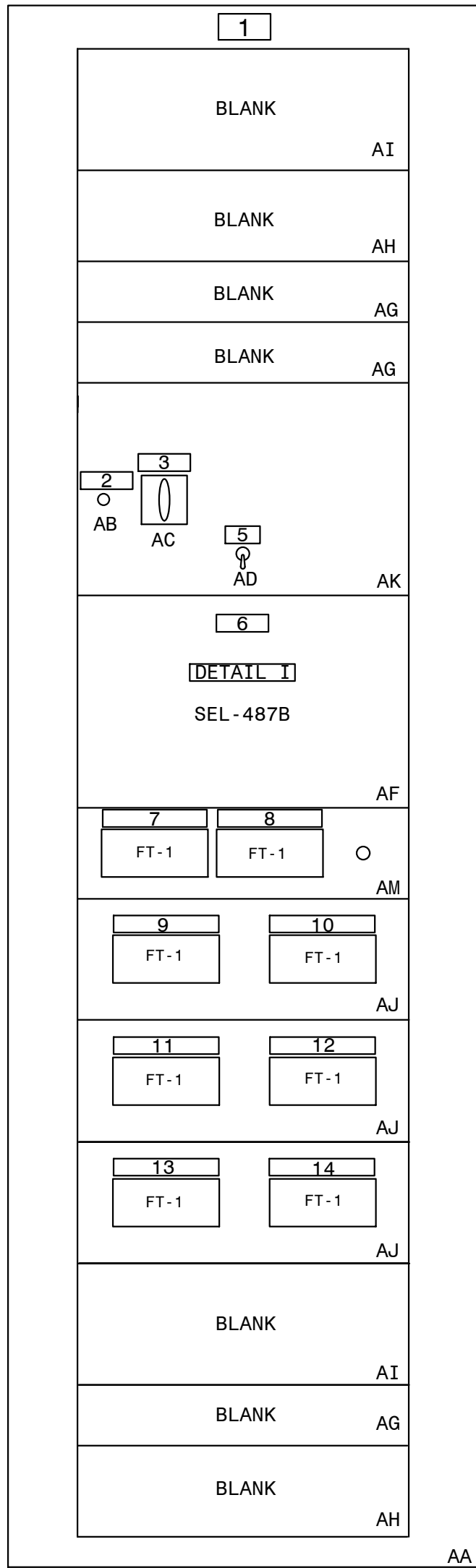
REFERENCES:
01-173-D264
01-173-D265
01-173-D266
PAN-CONST-D1
PAN-CONST-D2
PANEL #60 ELEMENTARY DIAG.
PANEL #60 WIRING DIAGRAM
PANEL #60 LOGIC DIAGRAM (SEL-487B)
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS

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

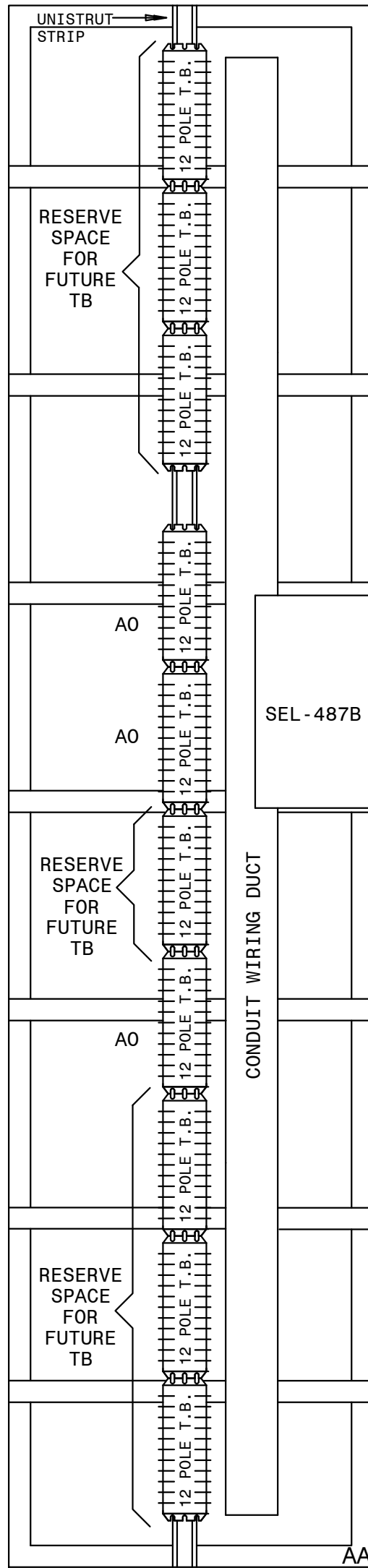
GEORGIA POWER		FACILITY NAME:	
A SOUTHERN COMPANY		MCGRAU FORD TS	
DRAWN: CP		TITLE: PANEL #60 FRONT VIEW & NAMEPLATES (6 CURR. CKT.) 230KV BUS NO. 2	
CHECKED: TEB		SEC. DIFF. (SEL487B) REL.	
APPROVED: 1402601		FACILITY #: 01-173	
DATE: 2/24/2012		NUMBER: 263	
		SHEET: REV: 001 - 0	
		ASC FACS:	
		ALT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



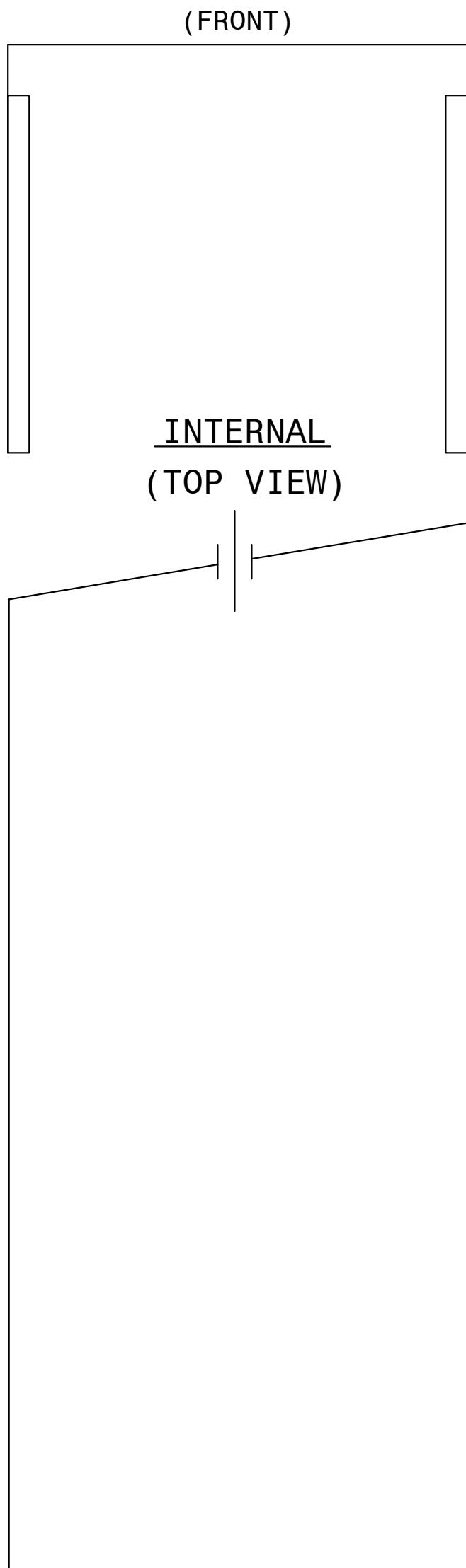
FRONT PANEL
(PUNCH MARKS)



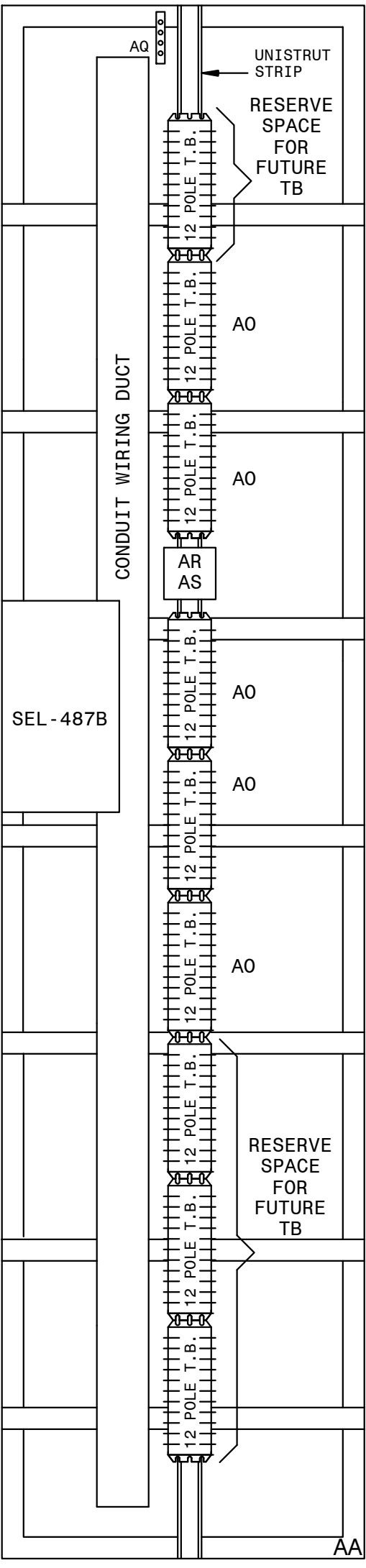
FRONT PANEL
(NAMEPLATES AND MATERIAL MARKS)



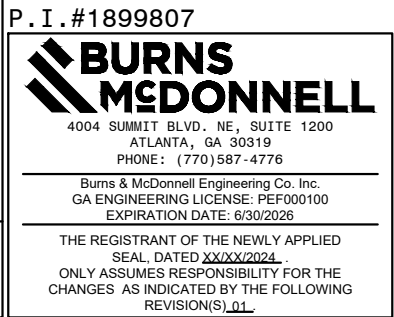
LEFT REAR



FRONT PANEL
(INTERNAL PANEL REAR VIEW)



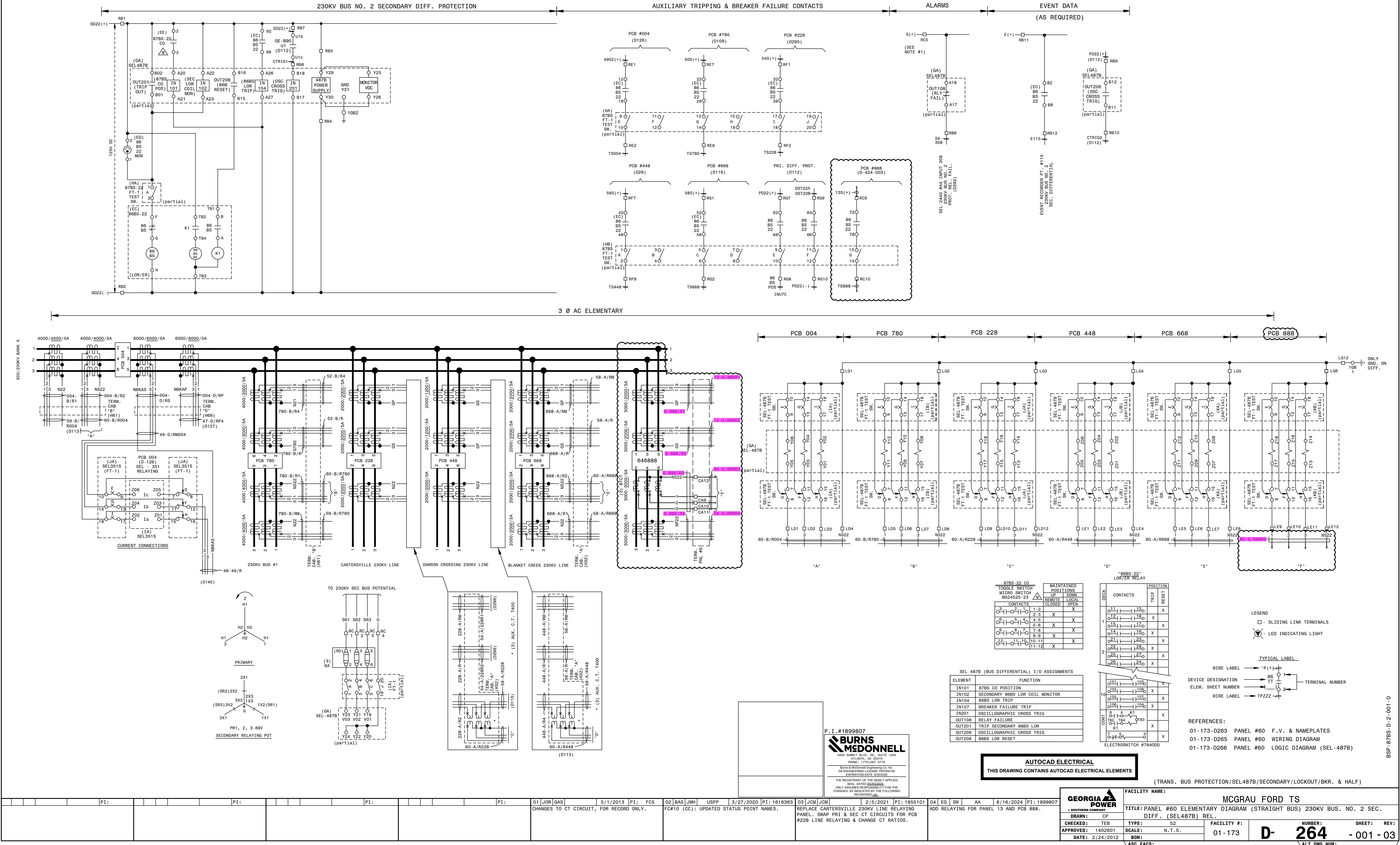
RIGHT REAR

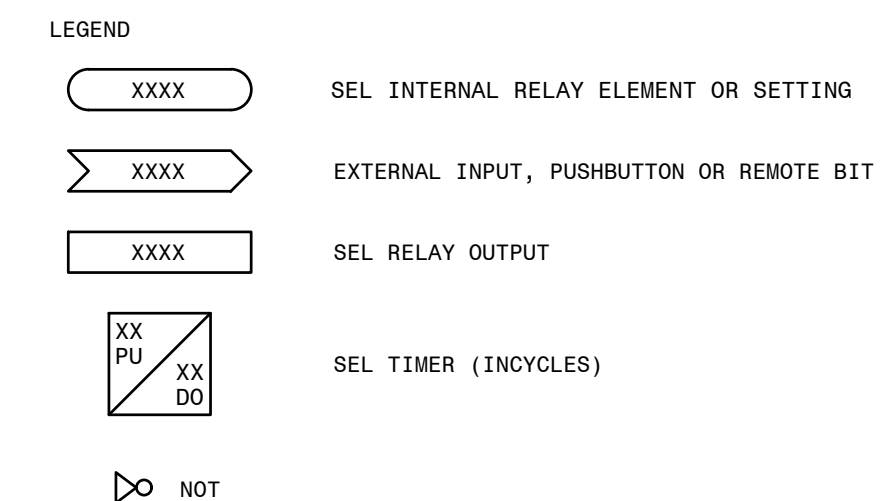


P.I.#1899807
ADD PCB 888 SECONDARY TRIP TO DETAIL B.

PI: 01 EG SW AA 8/20/2024 PI:1899807

BSP-87BS-D-1-001-0

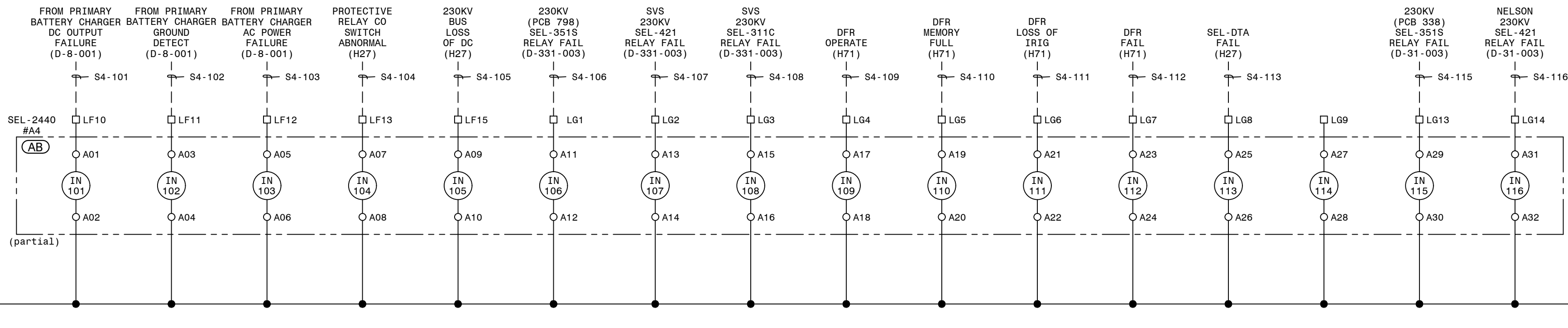




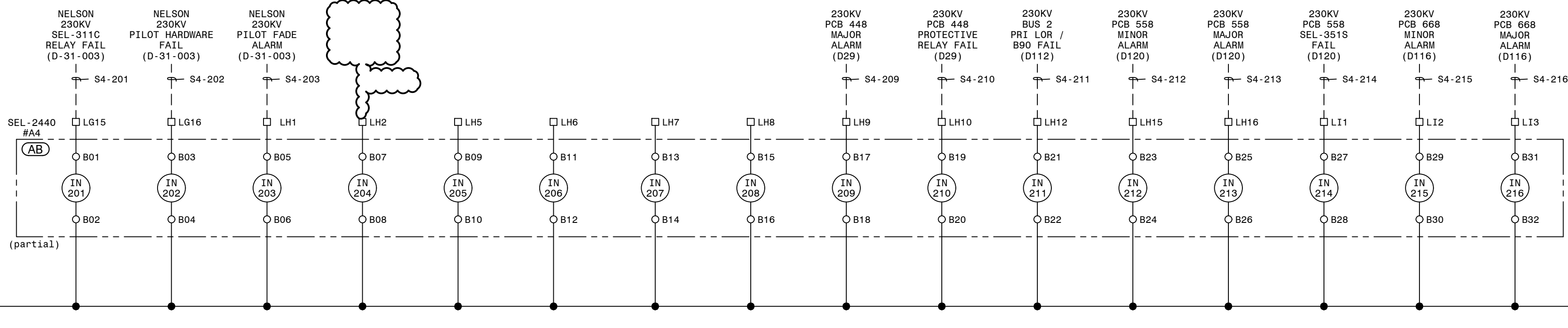
REFERENCES:
01-173-D264 PANEL #60 ELEMENTARY DIAGRAM
01-173-D265 PANEL #60 WIRING DIAGRAM

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

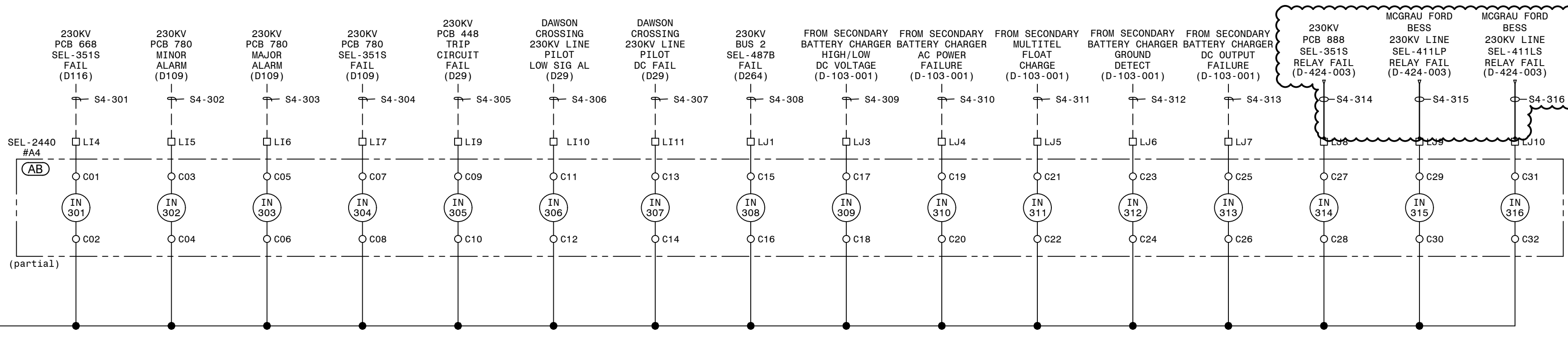
SEL-2440#A4 DIGITAL INPUTS



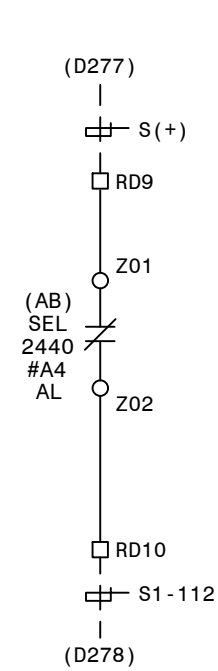
SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 ALARM



AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.I.#1899807

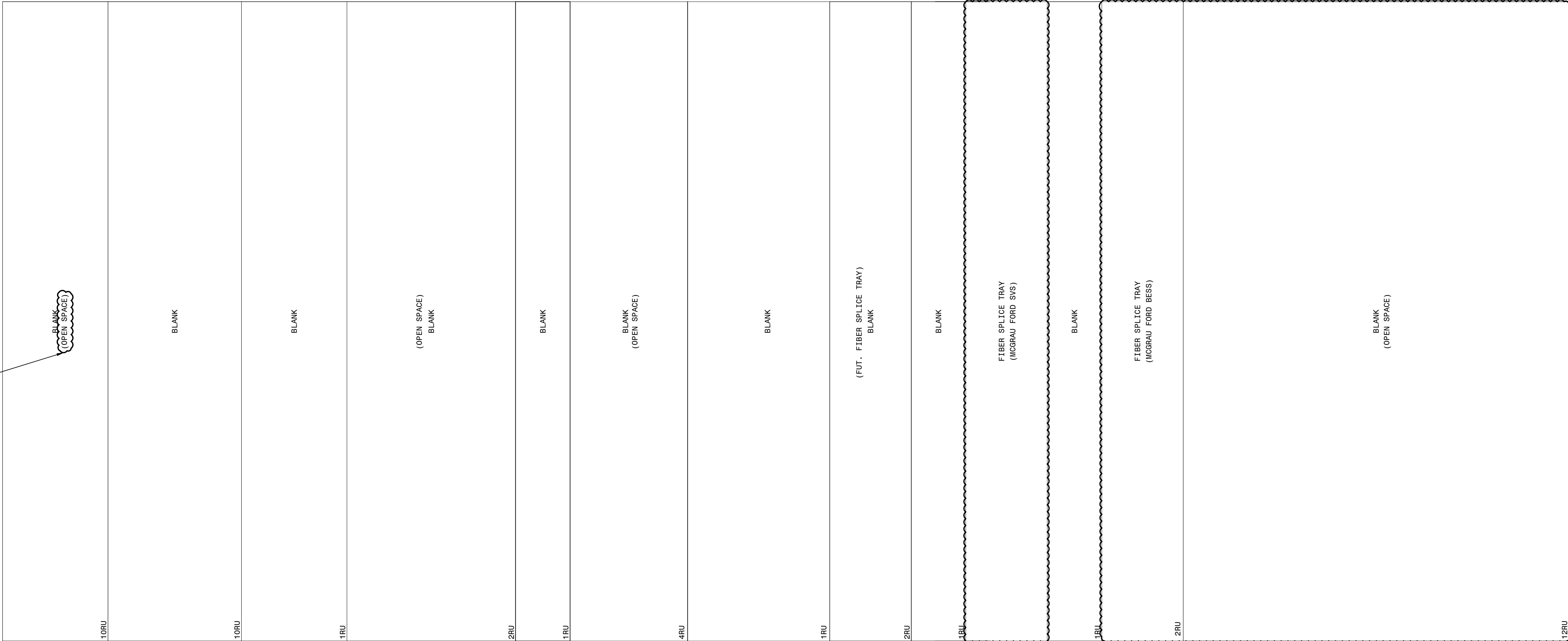


REFERENCES:

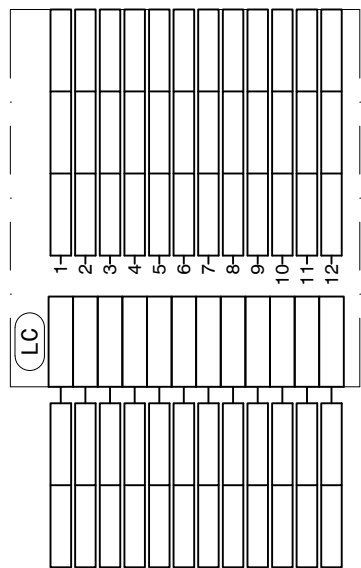
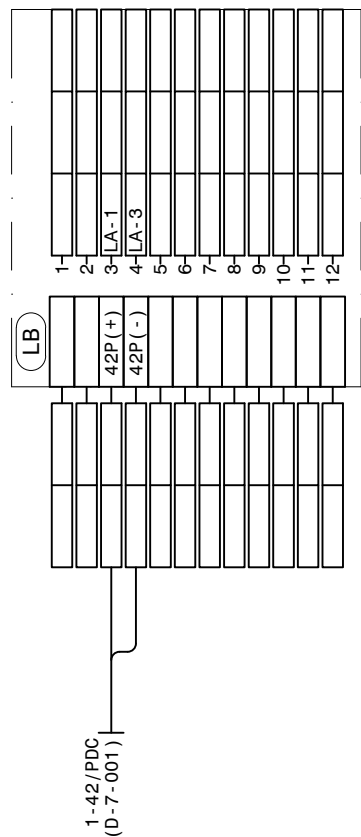
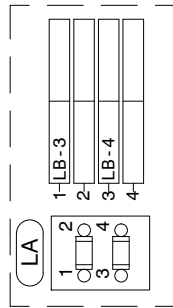
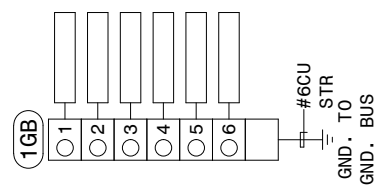
- | | |
|-------------|---|
| 01-173-B2 | PANEL #2 FRONT VIEW, TRANSMISSION SIA PANEL |
| 01-173-D20 | PANEL #2 WIRING DIAGRAM, TRANSMISSION SIA PANEL |
| 01-173-D186 | SIA COMMUNICATION CONNECTION DIAGRAM |
| 01-173-D291 | PANEL #2 ELEMENTARY DIAGRAM SH. 1, TRANSMISSION SIA PANEL |

GEORGIA POWER A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
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	D-292
DATE: 3/23/2020	BOM:	SHEET: REV:	
ASC FAC:		- 001 - 03	
		ALT DWG NUM:	

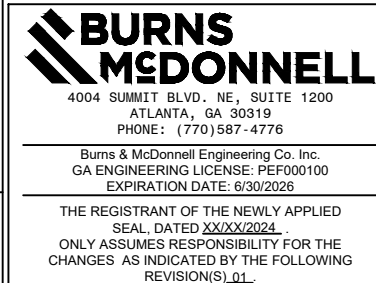
FOR REFERENCE



FOR REFERENCE



P.I.#1899807




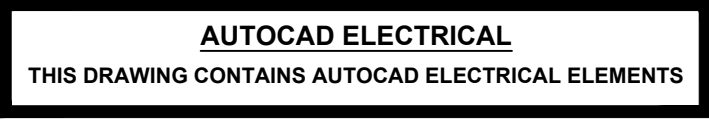
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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: PEFD00100
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED 00/00/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 01.

LEGEND:

- - SLIDING LINK TERMINALS
OR PHEONIX PLUG
- ⓧ - LED INDICATING LIGHT
- - SWITCH SHOWN IN OFF POSN

TYPICAL LABEL

The diagram shows a terminal symbol with two terminals. Annotations include: 'WIRE LABEL' pointing to 'P(+)' on the top terminal; '86' and 'TT' between the terminals; 'ELEM. SHEET NUMBER' pointing to a circle on the bottom terminal; 'WIRE LABEL' pointing to 'TPZZZ' on the bottom terminal; and '1' and '2' next to the terminals, both pointing to a bracket labeled 'TERMINAL NUMBER'.

WIRE LABEL → P(+)

86

TT

ELEM. SHEET NUMBER →

WIRE LABEL → TPZZZ

1


2

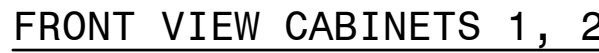
TERMINAL NUMBER

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)

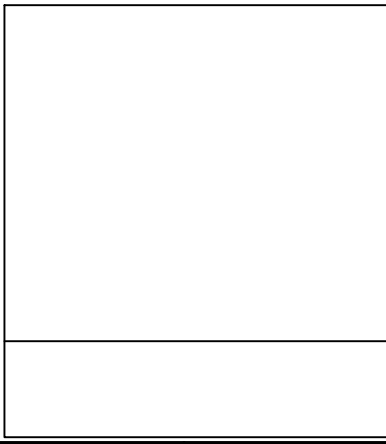
SVS AND MCGRAU FORD BESS FIBER INTERFACE

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

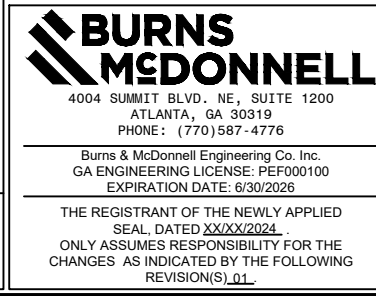


(SEE NOTE 1)								
FIBER NUMBER	FUNCTION (TX OR RX)	SCHEME	CABLE NAME	LOCAL CONNECTION	REMOTE DEVICE	MARK #	COLOR	BUFFER
1	SEL-421-TX	MCGRAU FORD - SVS (PRIMARY)	T0-43/F01	SEL-421 (PRIMARY)	SEL-487E (PRIMARY-SVS)		BLUE	BLUE
2	SEL-421-RX						ORANGE	
3	SEL-421-TX						GREEN	
4	SEL-421-RX						BROWN	
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.

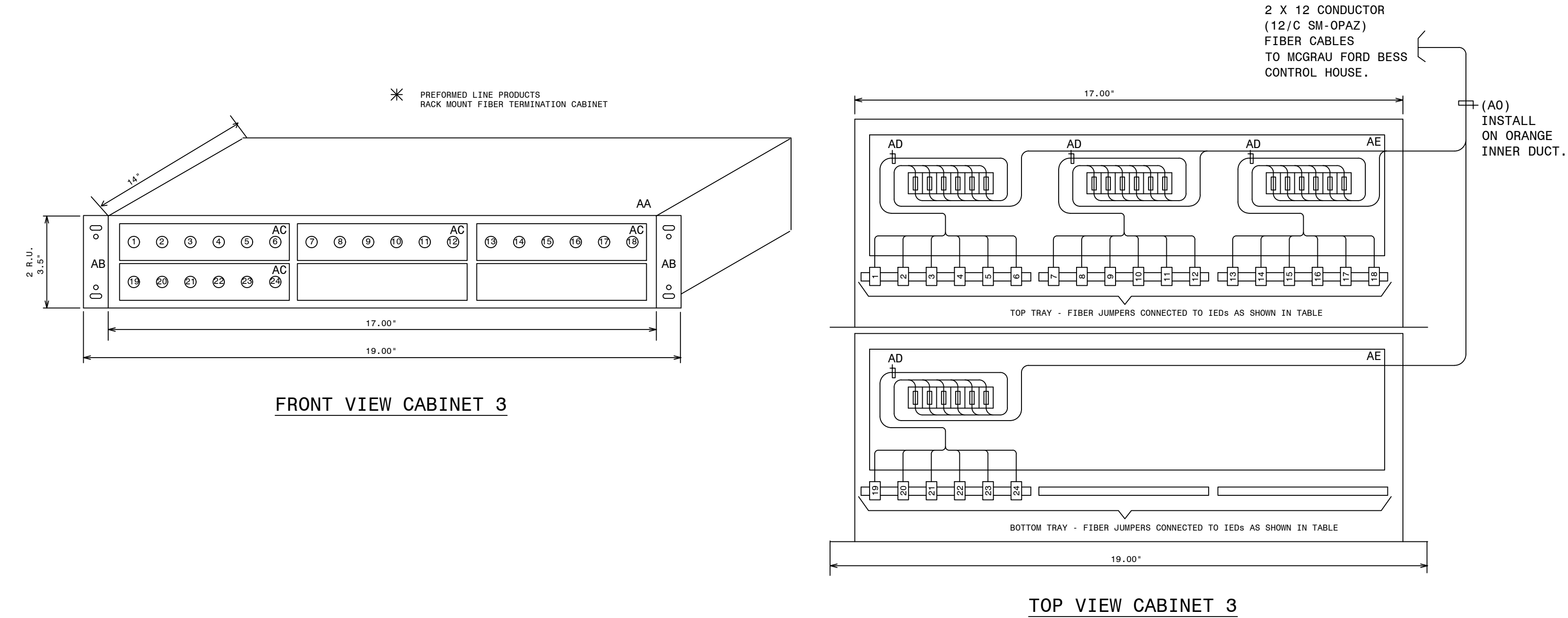
REFERENCES:

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 SPLICER CONNECTIONS (MCGRAU FORD BESS)

S/S

SVS FIBER INTERFACE

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

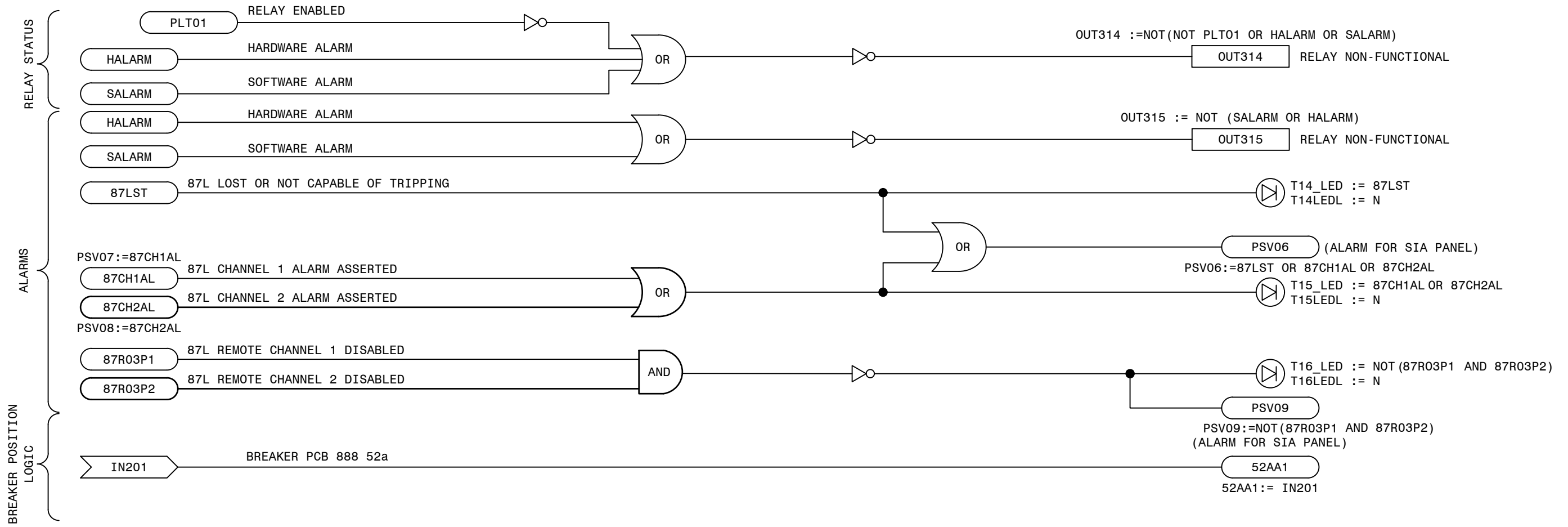
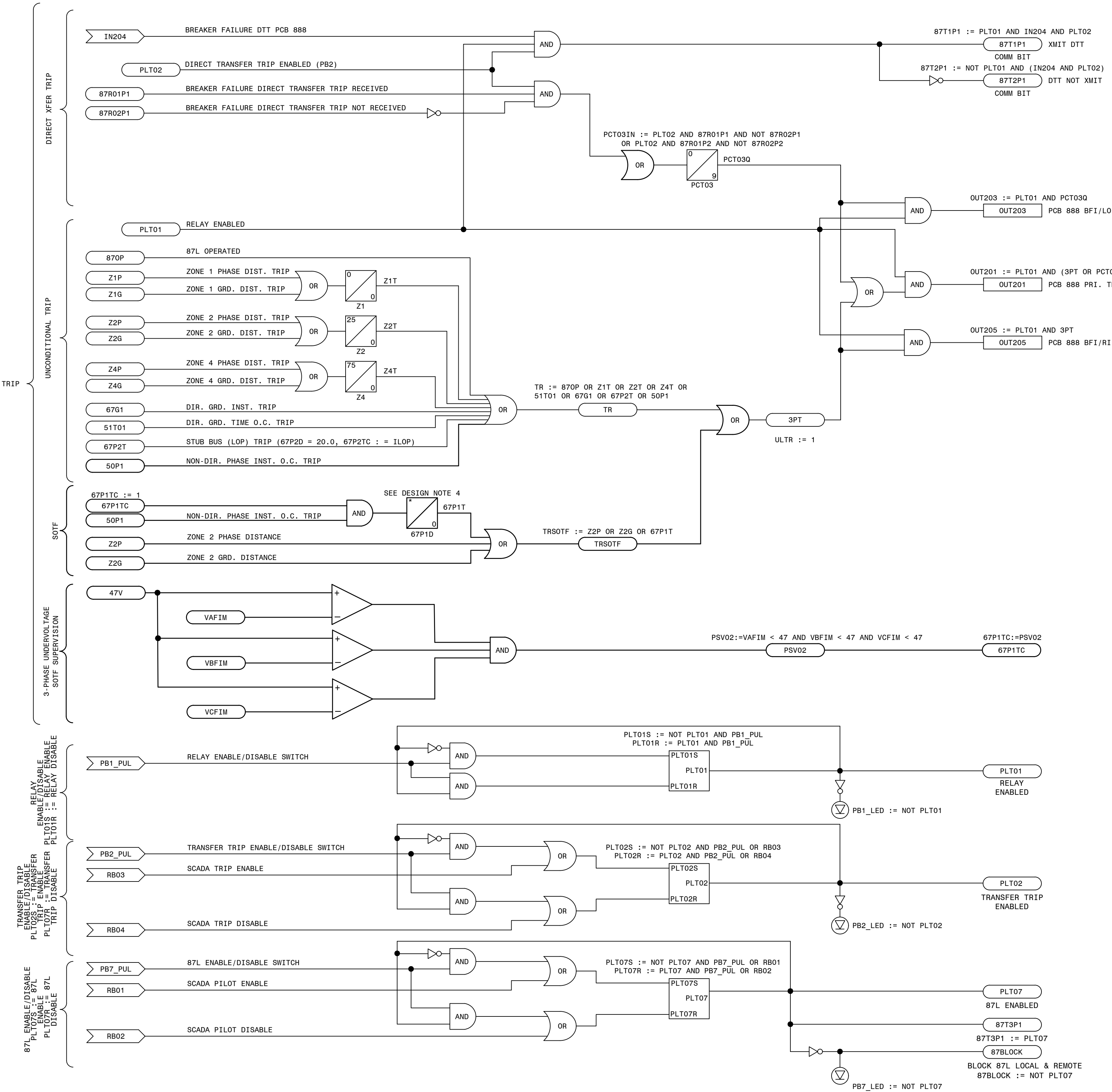
NOTE:
1. FUNCTION MUST BE REVERSED ON REMOTE END. IE - IF A1 IS CONNECTED TO TX ON THIS END, IT MUST BE CONNECTED TO RX ON REMOTE END.

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

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



- 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 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:

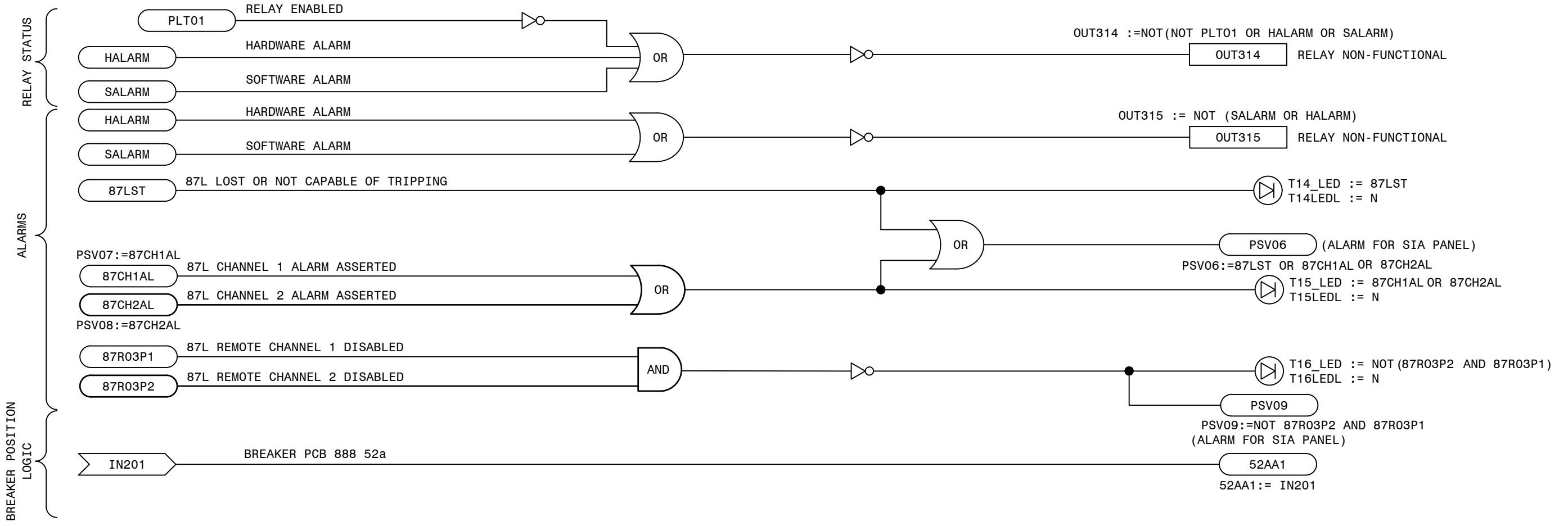
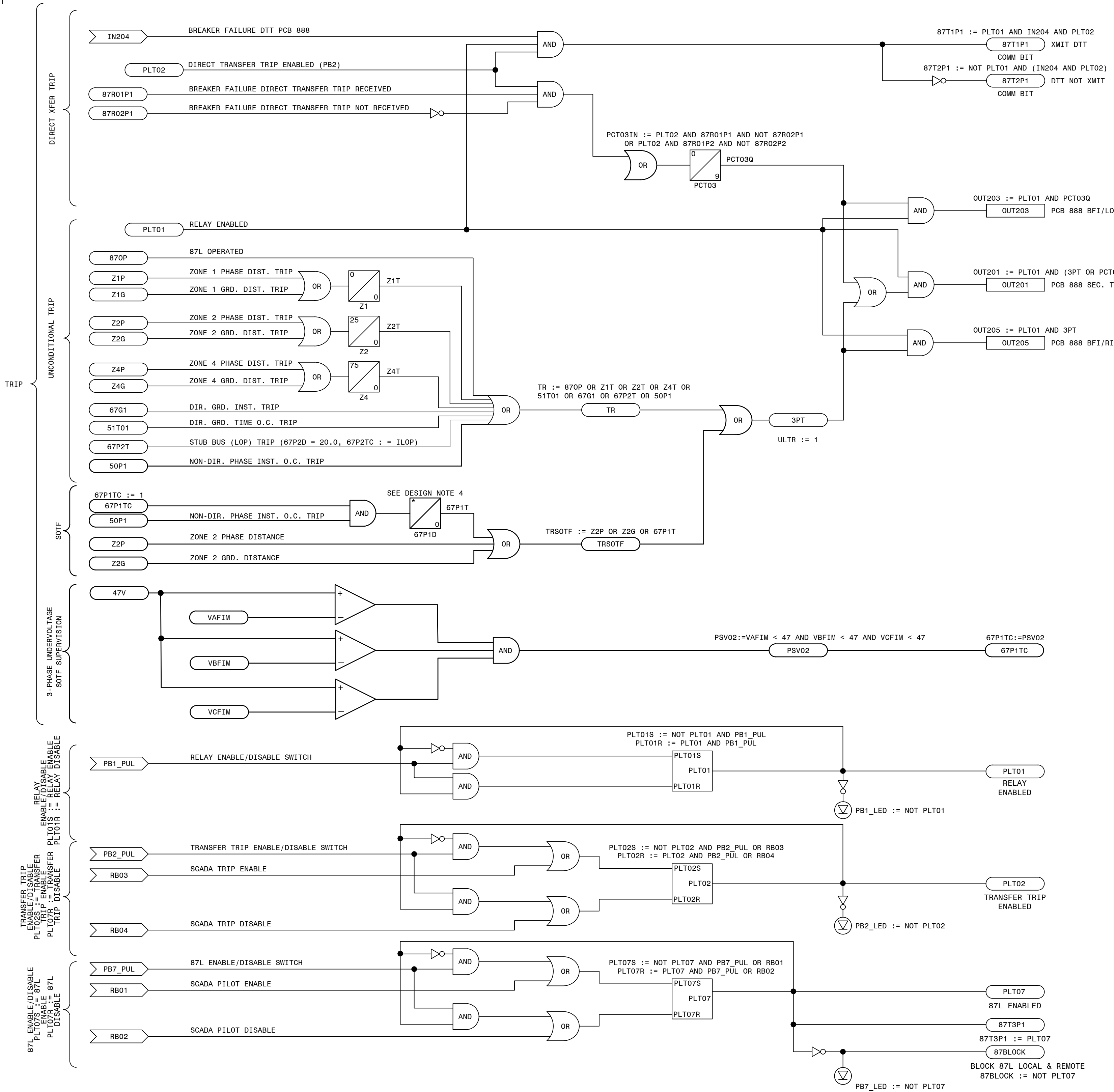
THE FOLLOWING LIST PROVIDES ALTERNATE LOGIC EQUATIONS IF ELEMENT ALIASES ARE NOT USED.

- 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

GEORGIA POWER SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
DRAWN: EG/BMCD		TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRAU FORD BESS 230KV LINE SEL411L (PRI-FIB. LINE DIFF/DIST.), STRAIGHT BUS	
CHECKED: SW/BMCD		TYPE: 52L	
APPROVED: PJ#1899007		SCALE: N.T.S.	
DATE: 7/31/2024		FACILITY #: 01-173	
		NUMBER: D-424	
		SHEET: REV: -005--.A	
		ASC FACs: ALT DWG NUM:	



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:

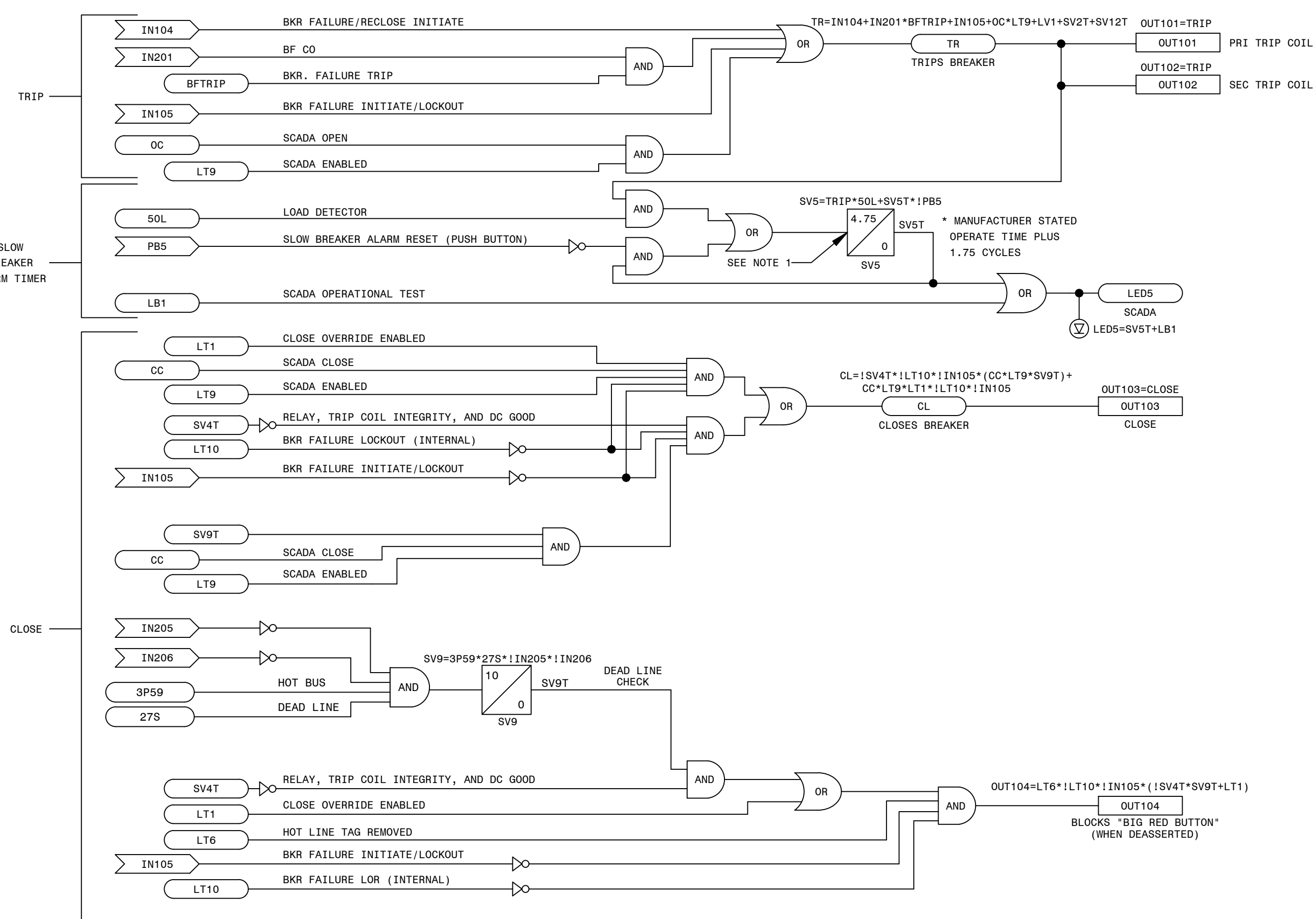
THE FOLLOWING LIST PROVIDES ALTERNATE LOGIC EQUATIONS IF ELEMENT ALIASES ARE NOT USED.

- 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

GEORGIA SOUTHERN POWER		FACILITY NAME: MCGRAY FORD TS	
DRAWN: EG/BHCD		TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRAY FORD BESS 230KV LINE SEL411L (SEG-FIB. LINE DIFF/DIST.), STRAIGHT BUS	
CHECKED: SW/BHCD		TYPE: 52L	
APPROVED: PJ#1899807		SCALE: N.T.S.	
DATE: 7/31/2024		FACILITY #: 01-173	
		NUMBER: D-424	
		SHEET: REV: 006 -- .A	
		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)

 GEORGIA POWER <small>a southern company</small>	FACILITY NAME:				MCGRU FORD TS			
	TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRU FORD 230KV LINE SEL951S (BF/RCLS) REL., STRAIGHT BUS							
	DRAWN: EG/BWCD	TYPE: 52L	FACILITY #:	D-424		SHEET:	REV:	
	CHECKED: SW/BMCD	SCALE: N.T.S.	01-173			- 007	- .A	
	APPROVED: P11899807	BOM:	ALT DWG NUM:					
DATE: 7/31/2024	ASC FACS:							




P.I. #1899807

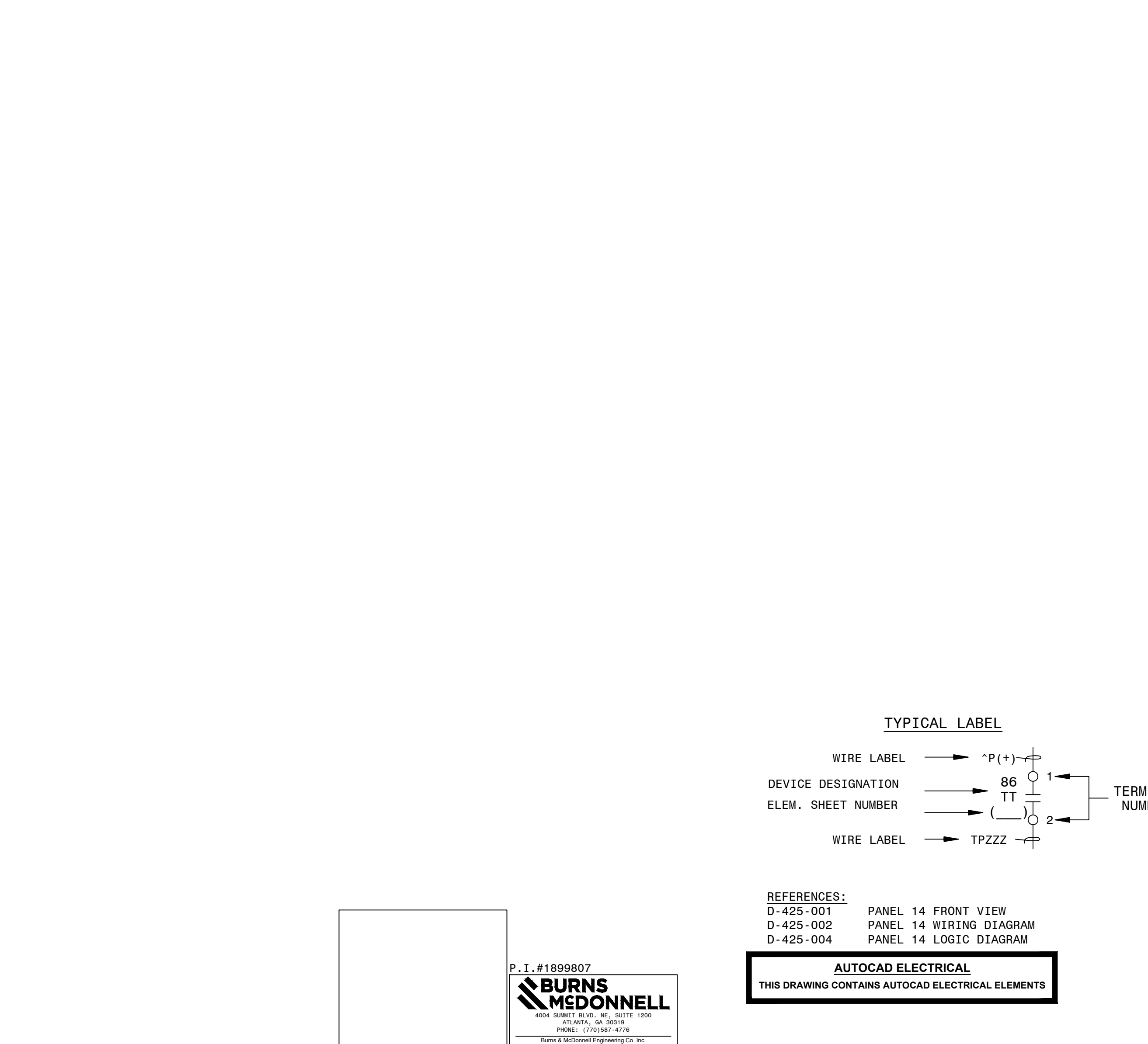
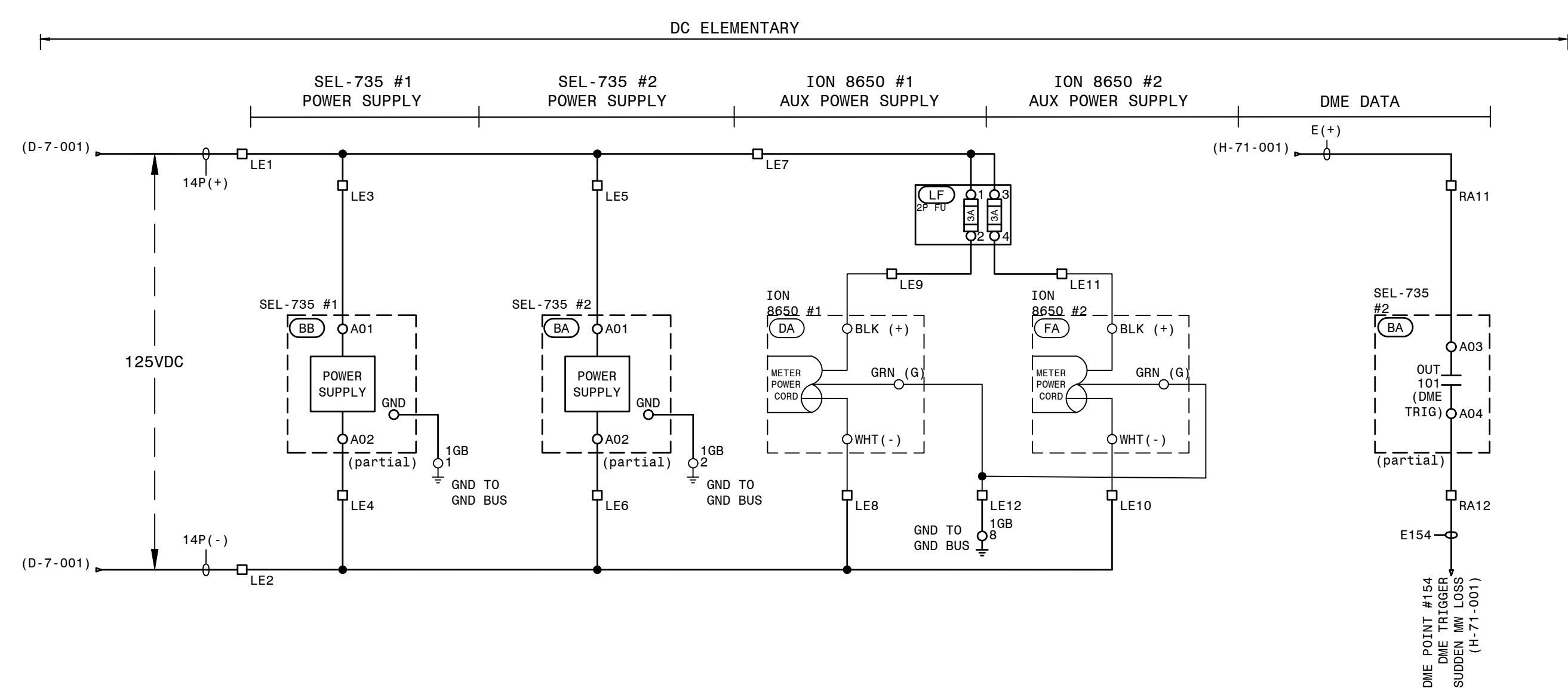
 **BURNS
MCDONNELL**

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, DATA 00000204,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 00.

 <p>GEORGIA POWER A SOUTHERN COMPANY</p>	FACILITY NAME:		MCGRAU FORD TS	
	TITLE: PANEL NO.14, WIRING DIAGRAM - TRANSMISSION REVENUE AND PQ METERING			
	DRAWN: EG/BMCD	TYPE: WD	FACILITY #:	NUMBER: 01-173
	CHECKED: SW/BMCD	SCALE: N.T.S.	D-	NUMBER: 425
	APPROVED: P11899807	BOM:		SHEET: REV: - 002 - .A
DATE: 8/14/2024	ASC FACS:	ALT DWG NUM:		



REFERENCES:
D-425-001 PANEL 14 FRONT VIEW
D-425-002 PANEL 14 WIRING DIAGRAM
D-425-004 PANEL 14 LOGIC DIAGRAM

AC/DC ELEMENTARY, TRANS. REVENUE & PQ METERING PANEL 14

P.I. #1899807

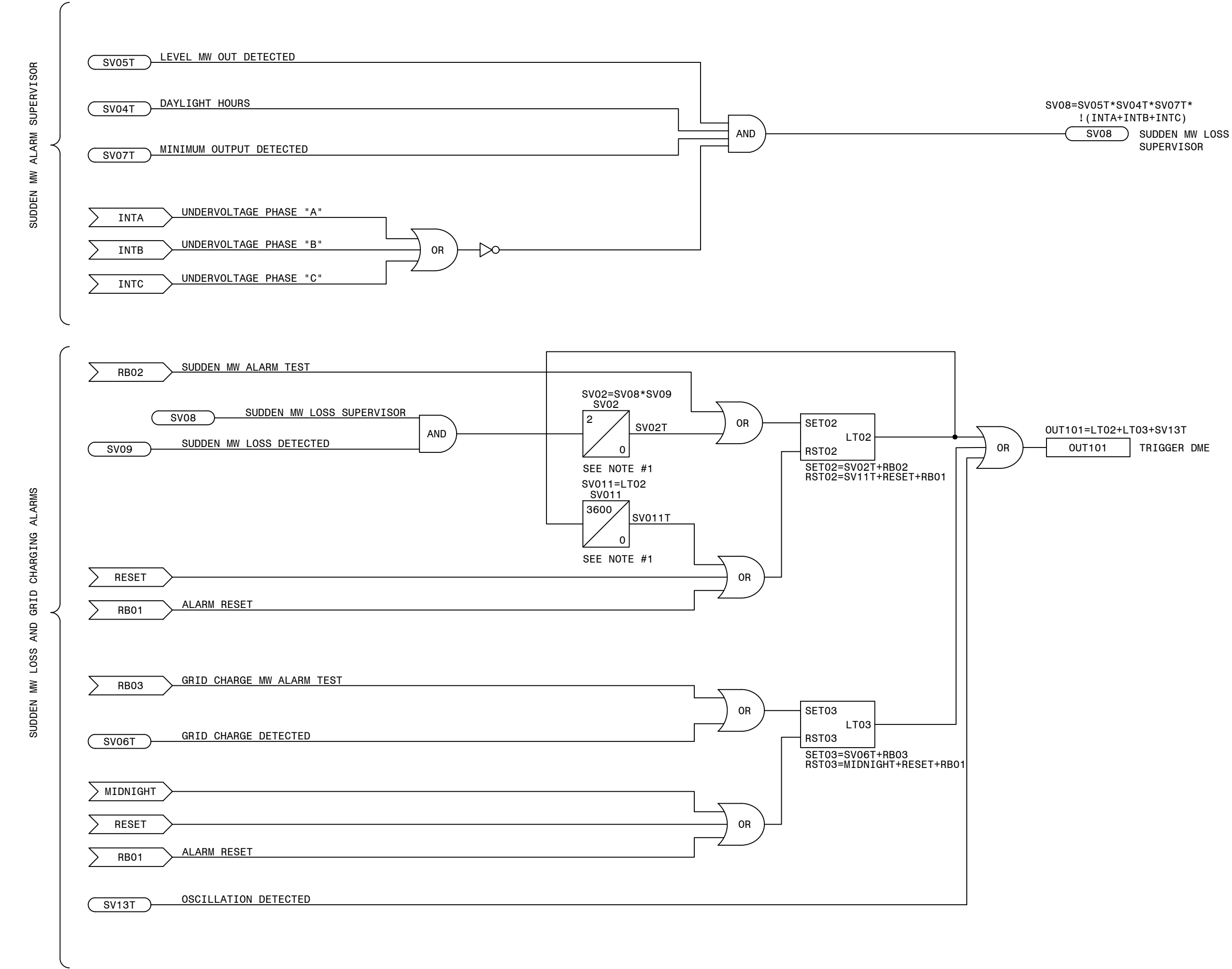
**BURNS
MCDONNELL**

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 XXXXXX2026,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 00.

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)

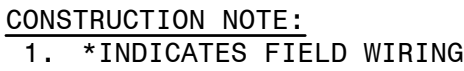
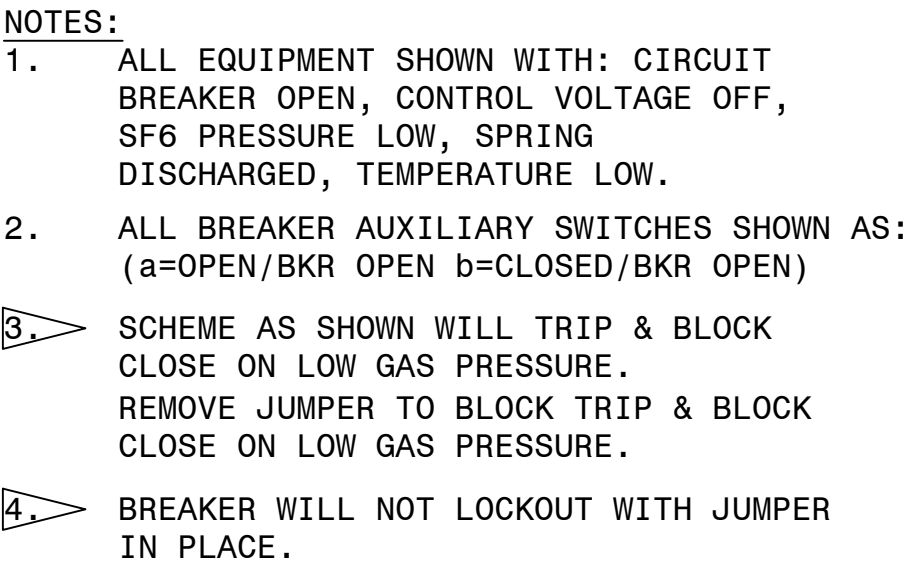
REFERENCES:
D-425-001 PANEL 14 FRONT VIEW
D-425-002 PANEL 14 WIRING DIAGRAM
D-425-003 PANEL 14 AC/DC ELEMENTARY

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

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 XXXX/XX/XX,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 00.

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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

LEGEND

DEVICE	DESCRIPTION
08AC	TRANSFORMER POWER DISCONNECT
08C	CLOSE POWER DISCONNECT
08H	HEATER POWER DISCONNECT
08M	MOTOR POWER DISCONNECT
08O	RECEPTACLE POWER DISCONNECT
08T1	TRIP #1 POWER DISCONNECT
08T2	TRIP #2 POWER DISCONNECT
23	CONTROL HOUSING THERMOSTAT
2505	REMOTE I/O MODULE (CUSTOMER SUPPLIED)
43	MAINTENANCE SWITCH
43TS	TRANSFER SWITCH
52	BREAKER AUXILIARY SWITCH
52C	BREAKER CLOSE COIL
52CX	AUX BREAKER CLOSING RELAY
52T1	BREAKER TRIP COIL
52T2	BREAKER TRIP COIL
52Y	BREAKER CLOSING CUTOFF RELAY (ANTI-PUMP)
62-1	TIME DELAY RELAY
63AX	INTERRUPTER SF6 LOW PRESSURE CUTOUT AUXILIARY RELAY
63BX	INTERRUPTER SF6 LOW PRESSURE CUTOUT AUXILIARY RELAY
63G	GAS PRESSURE SWITCH (SF6)
74X	SPRING DISCHARGE ALARM
88	MOTOR
H1	CABINET HEATER
H2	CABINET HEATER
LT2	GREEN INDICATOR LIGHT (REMOTE)
LT3	RED INDICATOR LIGHT (REMOTE)
LT4	RED INDICATOR LIGHT (REMOTE)
MS	SPRING CHARGE MOTOR SWITCH
PBC	PUSHBUTTON CONTROL SWITCH (CLOSE)
PBT1	PUSHBUTTON CONTROL SWITCH (TRIP)
PBT2	PUSHBUTTON CONTROL SWITCH (TRIP 2)
PR	PROTECTIVE RELAY (REMOTE)
RCP	DUPLEX RECEPTACLE (GFCI)
XFMR	TRANSFORMER

NOTES:

1.

ALL EQUIPMENT SHOWN WITH: CIRCUIT BREAKER OPEN, CONTROL VOLTAGE OFF, SF6 PRESSURE LOW, SPRING DISCHARGED, TEMPERATURE LOW.

2.

ALL BREAKER AUXILIARY SWITCHES SHOWN AS: (a=OPEN/BKR OPEN b=CLOSED/BKR OPEN)

3.

SCHEME AS SHOWN WILL TRIP & BLOCK CLOSE ON LOW GAS PRESSURE. REMOVE JUMPER TO BLOCK TRIP & BLOCK CLOSE ON LOW GAS PRESSURE.

4.

BREAKER WILL NOT LOCKOUT WITH JUMPER IN PLACE.

93

141

52

b

94

142

97

151

52

b

98

152

101

161

52

b

102

162

105

171

52

b

106

172

107

173

52

a

108

174

109

181

52

b

110

182

111

183

52

a

112

184

113

191

52

b

114

192

43TS

CUTOUT SWITCH

DECK	3004-3 CONTACTS	POSITION		
		125VDC	OFF	120VAC
1		X		
2		X		
3		X		
4		X		

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = ON1

63AX

LOCKOUT RELAY (86)

DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = RESET

63BX

LOCKOUT RELAY (86)

DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = RESET

43

MAINTENANCE SWITCH

DECK	242108-2 (100-2804E) CONTACTS	POS1	POS2
		NORMAL	MAINTENANCE
1	12		X
	13		
	15		X
2	21		X
	23		X
	25		X
3	31		X
	33		X
	35		X
4	41		X
	43		X
	45		X
5	51		X
	53		X
	55		X
6	61		X
	63		X
	65		X
7	71		X
	73		X
	75		X
8	81		X
	83		X
	85		X
9	91		X
	93		X
	95		X
10	101		X
	103		X
	105		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = NORMAL

29

1

27A

5

74X

1

30

127

42

16

63BX

22

28

43

17

31

22

28

32

28

43

17

33

22

28

34

28

43

17

41

2

TB-G

1

40

TB-G

3

TB-G

130

63G SW#1

BLK

WHIT

J-1

131

49

132

50

133

39

GND

2505

134

24

23

22

21

20

19

18

17

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

0

48

47

46

45

44

43

42

41

40

39

38

37

36

35

34

33

32

31

30

29

28

27

26

25

IN8

IN7

IN6

IN5

IN4

IN3

IN2

IN1

ALARM

POWER SUPPLY

OUT8

OUT7

OUT6

OUT5

OUT4

OUT3

OUT2

OUT1

13BC(-)

55

52

a

43

44

888a2

56

52

a

43

41

79

80

52

a

43

61

91

92

52

a

43

91

95

96

52

a

43

101

83

84

52

a

43

71

87

88

52

a

43

81

59

60

52

a

43

54

63

64

52

a

43

64

89

90

43

MAINT

106

107

52

b

131

132

85

86

43

MAINT

96

97

52

b

121

122

81

82

43

MAINT

86

87

52

b

111

112

77

78

43

MAINT

76

77

52

b

101

102

73

74

43

MAINT

66

67

52

b

91

92

65

66

43

MAINT

56

57

52

b

71

72

61

62

43

MAINT

36

37

52

b

61

62

13BC(-)

55

52

a

43

44

888a2

56

52

a

43

41

79

80

52

a

43

61

91

92

52

a

43

91

95

96

52

a

43

101

83

84

52

a

43

71

87

88

52

a

43

81

59

60

52

a

43

54

63

64

52

a

43

64

89

90

43

MAINT

106

107

52

b

131

132

85

86

43

MAINT

96

97

52

b

121

122

81

82

43

MAINT

86

87

52

b

111

112

77

78

43

MAINT

76

77

52

b

101

102

73

74

43

MAINT

66

67

52

b

91

92

65

66

43

MAINT

56

57

52

b

71

72

61

62

43

MAINT

36

37

52

b

61

62

THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

REFERENCES

D-426-001

230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.1

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

PI:

PI:

PI:

PI:

PI:

PI:

PI:

PI:

43TS

CUTOUT SWITCH

DECK	3004-3 CONTACTS	POSITION		
		125VDC	OFF	120VAC
1		X		
2		X		
3		X		
4		X		

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = ON1

63AX

LOCKOUT RELAY (86)

DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = RESET

63BX

LOCKOUT RELAY (86)

DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = RESET

43

MAINTENANCE SWITCH

DECK	242108-2 (100-2804E) CONTACTS	POS1	POS2
		NORMAL	MAINTENANCE
1	12		X
	13		
	15		X
2	21		X
	23		X
	25		X
3	31		X
	33		X
	35		X
4	41		X
	43		X
	45		X
5	51		X
	53		X
	55		X
6	61		X
	63		X
	65		X
7	71		X
	73		X
	75		X
8	81		X
	83		X
	85		X
9	91		X
	93		X
	95		X
10	101		X
	103		X
	105		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = NORMAL

PI:

PI:

PI:

PI:

PI:

PI:

PI:

PI:

43TS

CUTOUT SWITCH

DECK	3004-3 CONTACTS	POSITION		
		125VDC	OFF	120VAC
1		X		
2		X		
3		X		
4		X		

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = ON1

63AX

LOCKOUT RELAY (86)

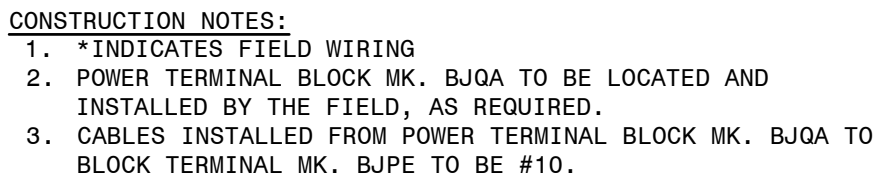
DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		X

X- DENOTES CONTACT IN CLOSED POSITION. SWITCH STATE = RESET

63BX


LOCKOUT RELAY (86)

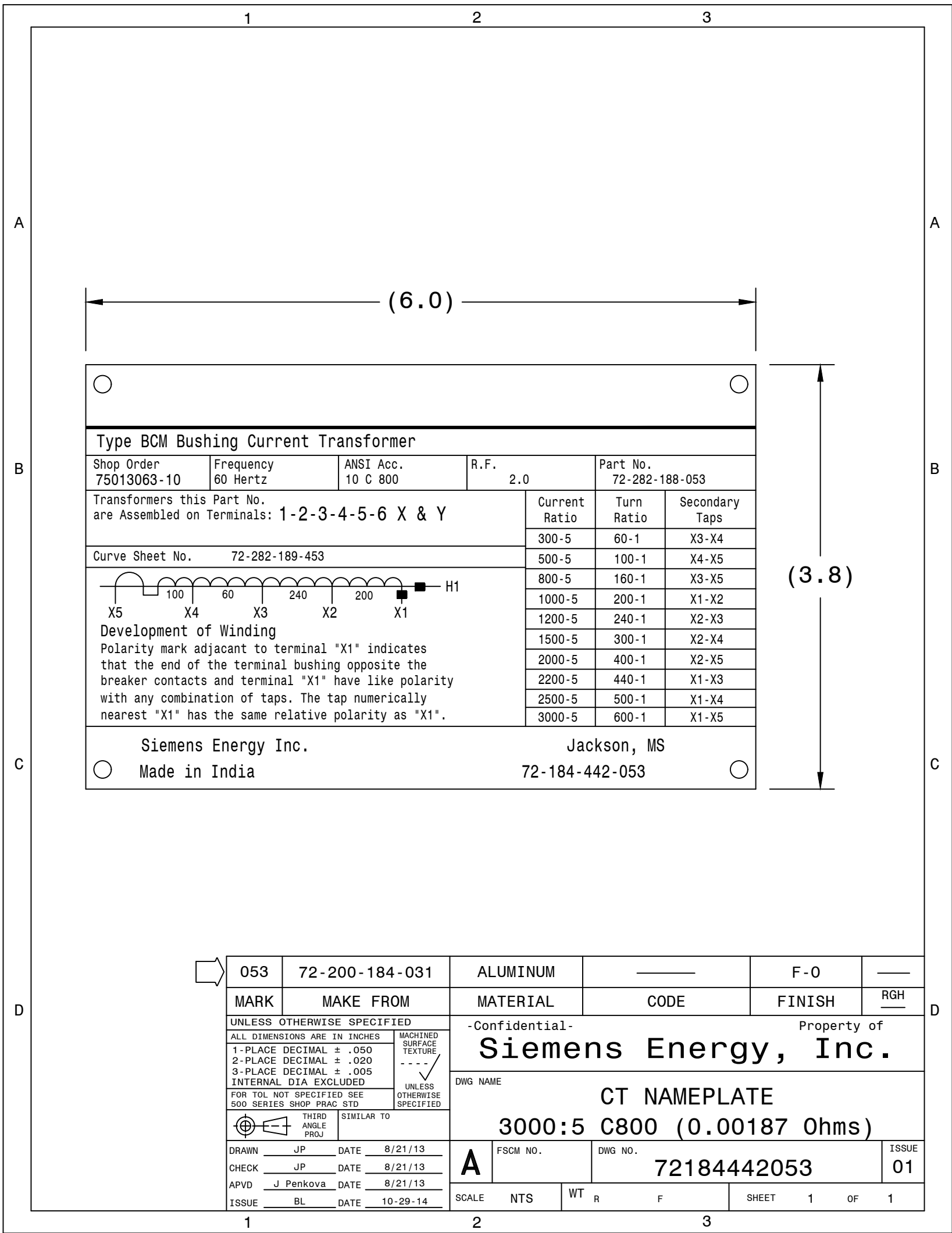
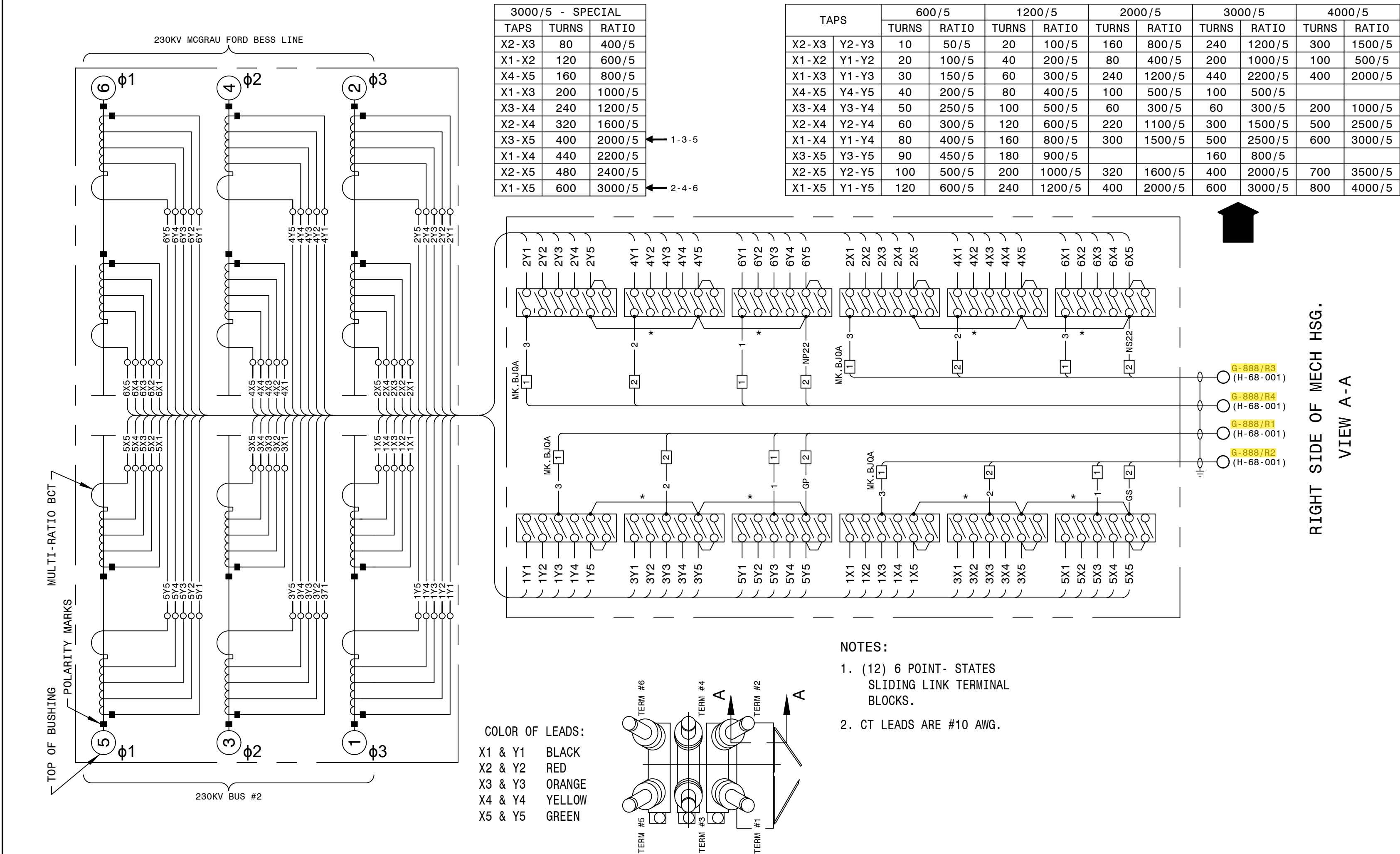
DECK	7803D CONTACTS	POSITION	
		TRIP	RESET
INTERRUPTER	B		X
	F		X
1	11		X
	12		X
	15		X
	16		X
	21		X
	22		X
2	25		X
	26		X
	31		X
	32		X
3	35		X
	36		



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-426-004	230KV	PCB	646888 (CO.#B19453)	BCT WIRING DIAGRAM & NAMEPLATE
D-426-005	230KV	PCB	646888 (CO.#B19453)	NAMEPLATE & GAS SYSTEM

AUTOCAD ELECTRICAL
CONTAINS AUTOCAD ELECTRICAL ELEMENTS

 GEORGIA POWER A SOUTHERN COMPANY	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#1899807		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

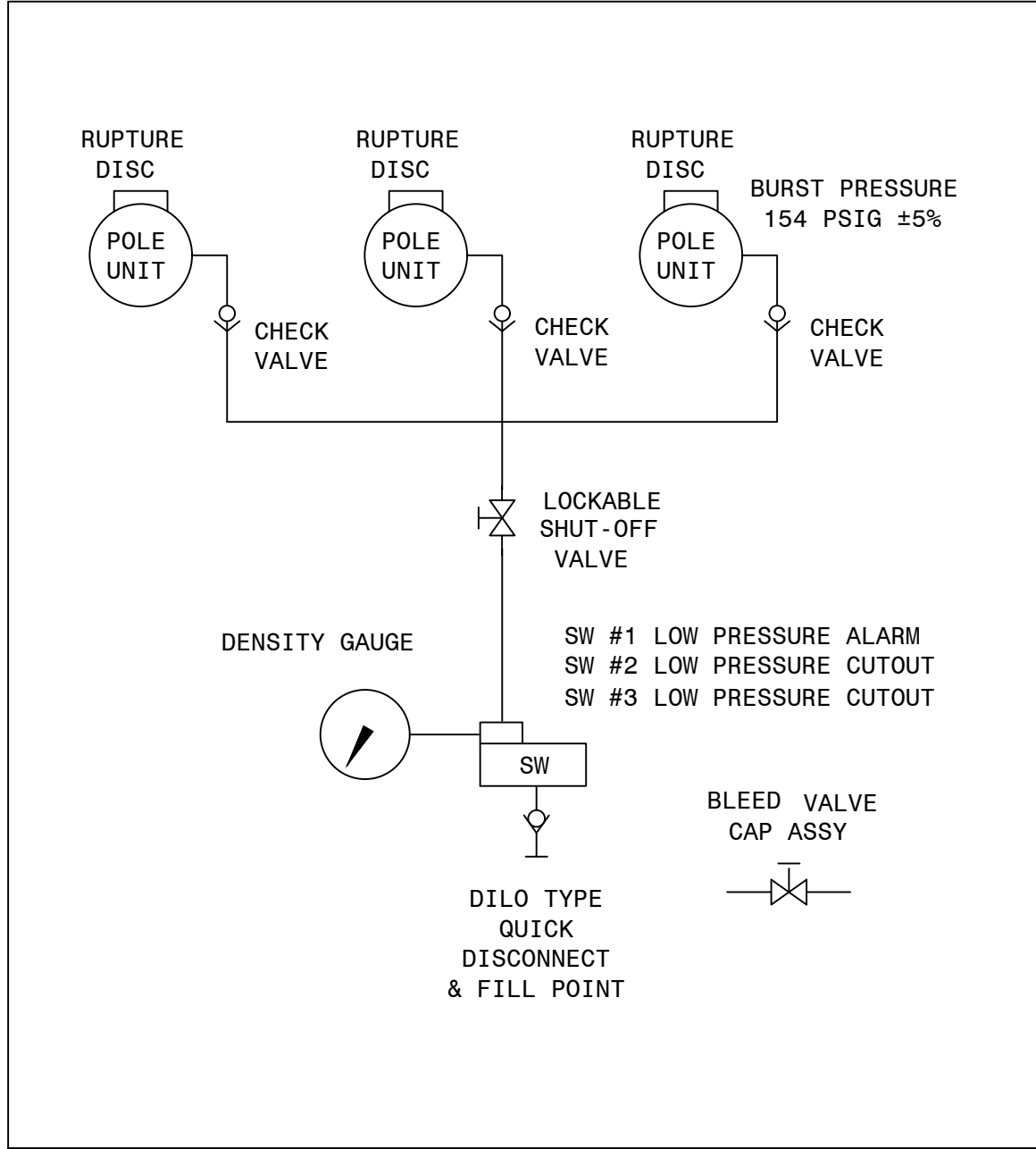
P.I.#1899807



GEORGIA POWER A SOUTHERN COMPANY	FACILITY NAME:		MCGRAU FORD TS	
	TITLE: 230KV PCB 646888 (CO.#B19453) BCT WIRING DIAGRAM & NAMEPLATE			
	DRAWN: EG/BHCD	TYPE: 82	FACILITY #:	01-173
	CHECKED: SW/BHCD	SCALE: N.T.S.	NUMBER:	426
APPROVED: PT#1899807		DATE: 12/17/2024	SHEET: REV:	
DEV.#: 646888		ASC FACS:		ALT DWG NUM:

<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 PRGMS 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					



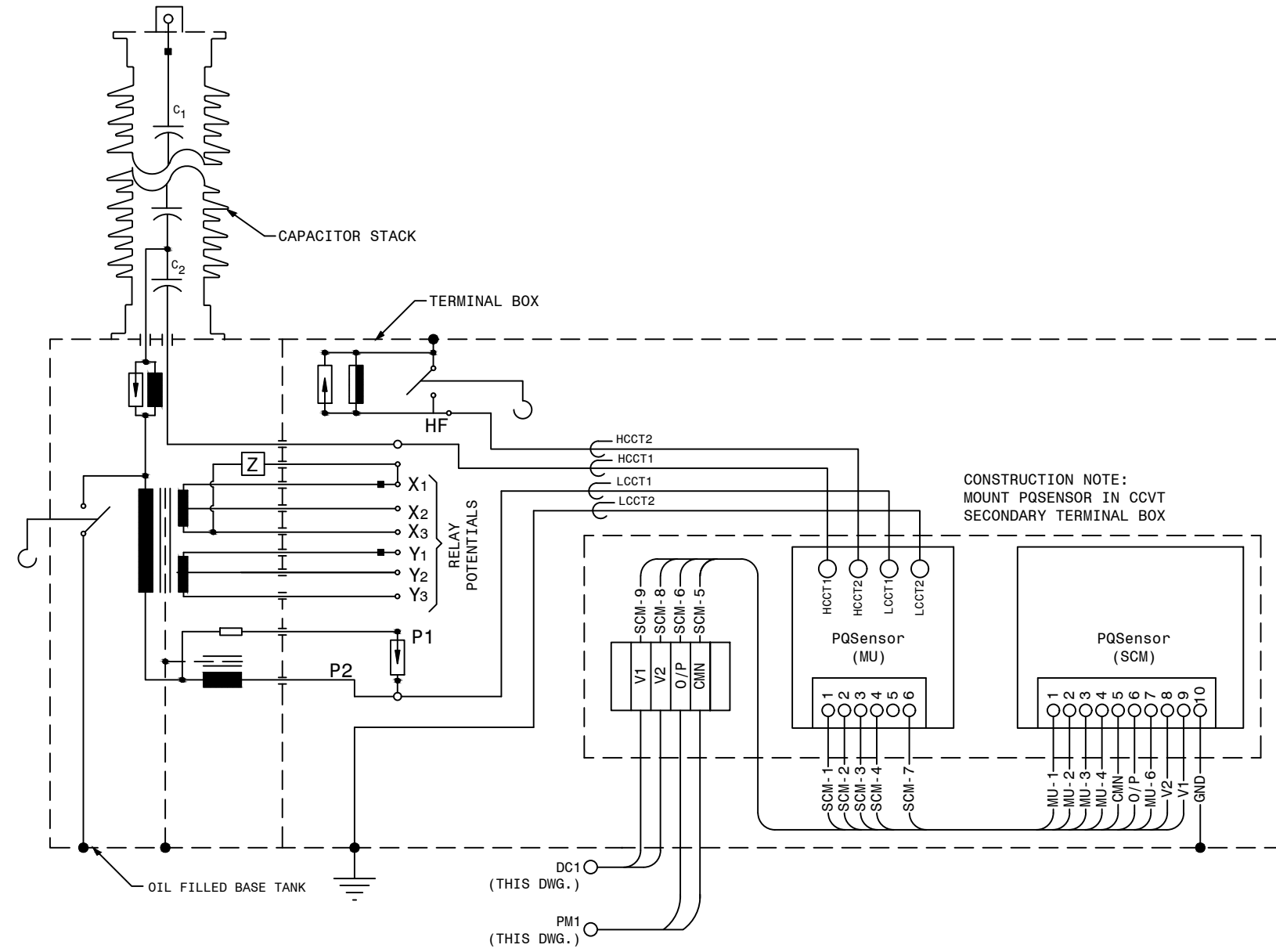
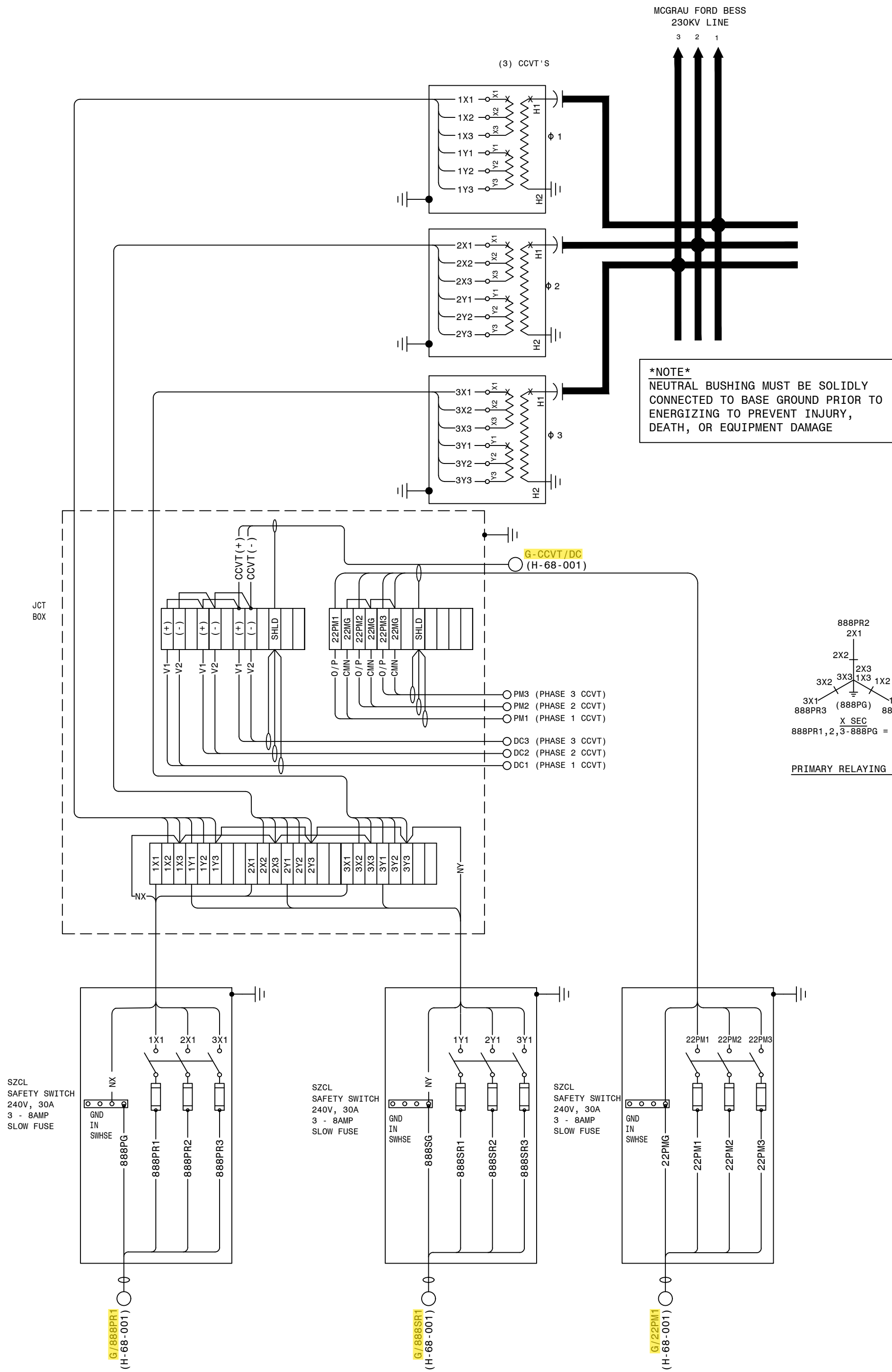
UNLESS OTHERWISE SPECIFIED		-Confidential- Property of			
ALL DIMENSIONS ARE IN INCHES		Siemens Energy, Inc.			
1-PLACE DECIMAL ± .050		DWG NAME			
2-PLACE DECIMAL ± .020		GAS SYSTEM SCHEMATIC			
3-PLACE DECIMAL ± .005		OSDS w/SHUT-OFF			
INTERNAL DIA EXCLUDED		A FSCM NO. DWG NO. ISSUE			
FOR TOL NOT SPECIFIED SEE 500 SERIES SHOP PRGMS 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

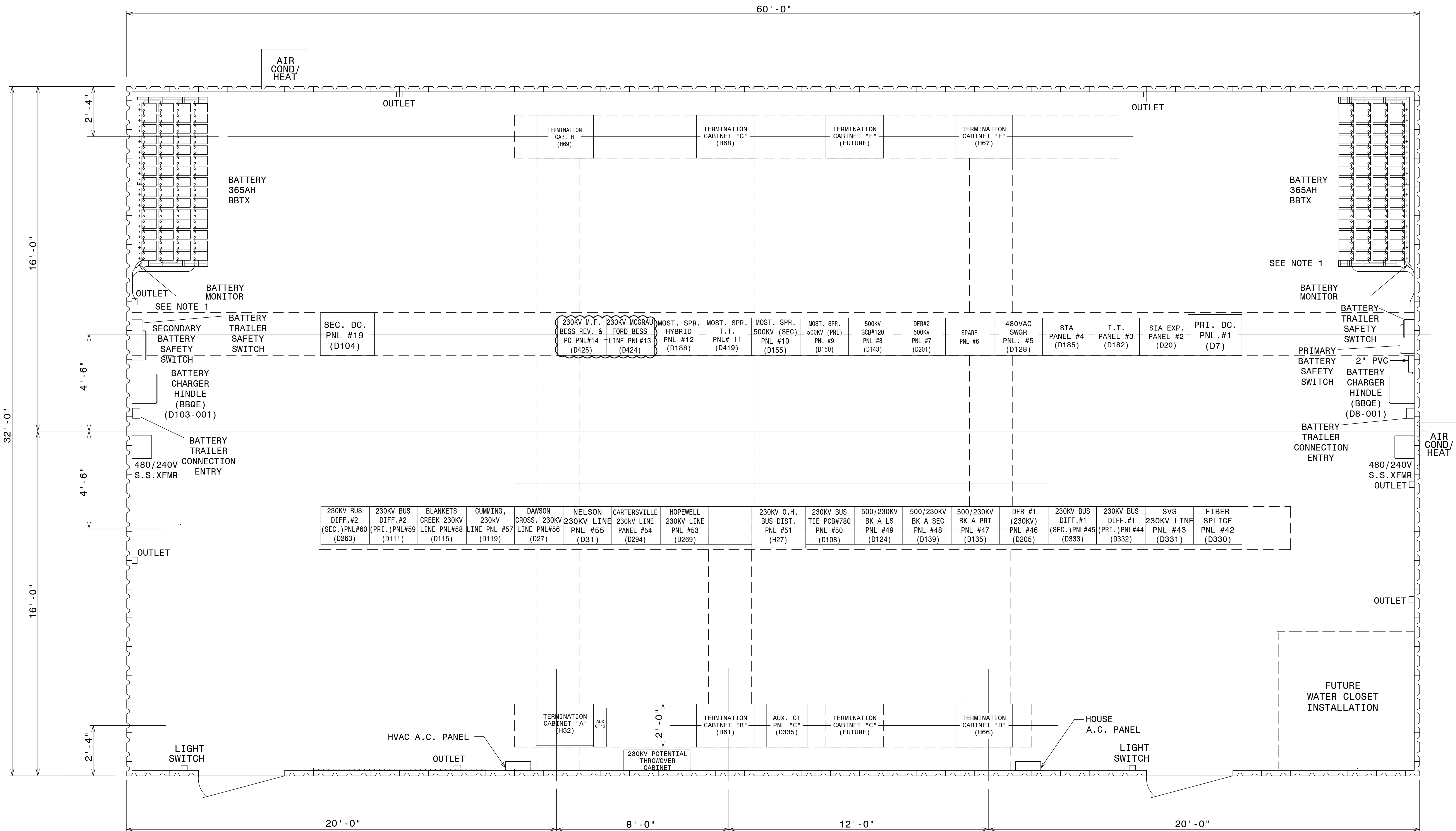
4004 SUMMIT BLVD., NE, SUITE 1200
ATLANTA, GA 30319
PHONE: (770) 887-4778

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/LOG.

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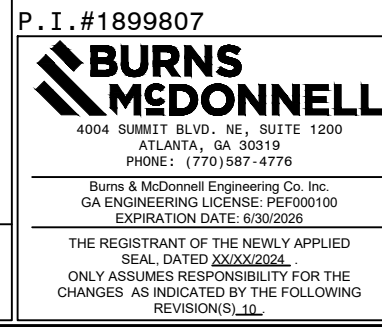
FACILITY NAME:		MCGRAU FORD TS	
TITLE: 230KV MCGRAU FORD BESS CCVT POTENTIAL CONNECTION DIAGRAM			
DRAWN: EG/BMCD	TYPE: PT	FACILITY #:	NUMBER:
CHECKED: SW/BMCD	SCALE: N.T.S.	01 - 173	427
APPROVED: P.I.#1899807	DATE: 12/19/2024	BOM:	ASC FAC:
ALT DWG NUM:		SHEET: REV:	
		- 001 - 00	



LIGHT PLAN

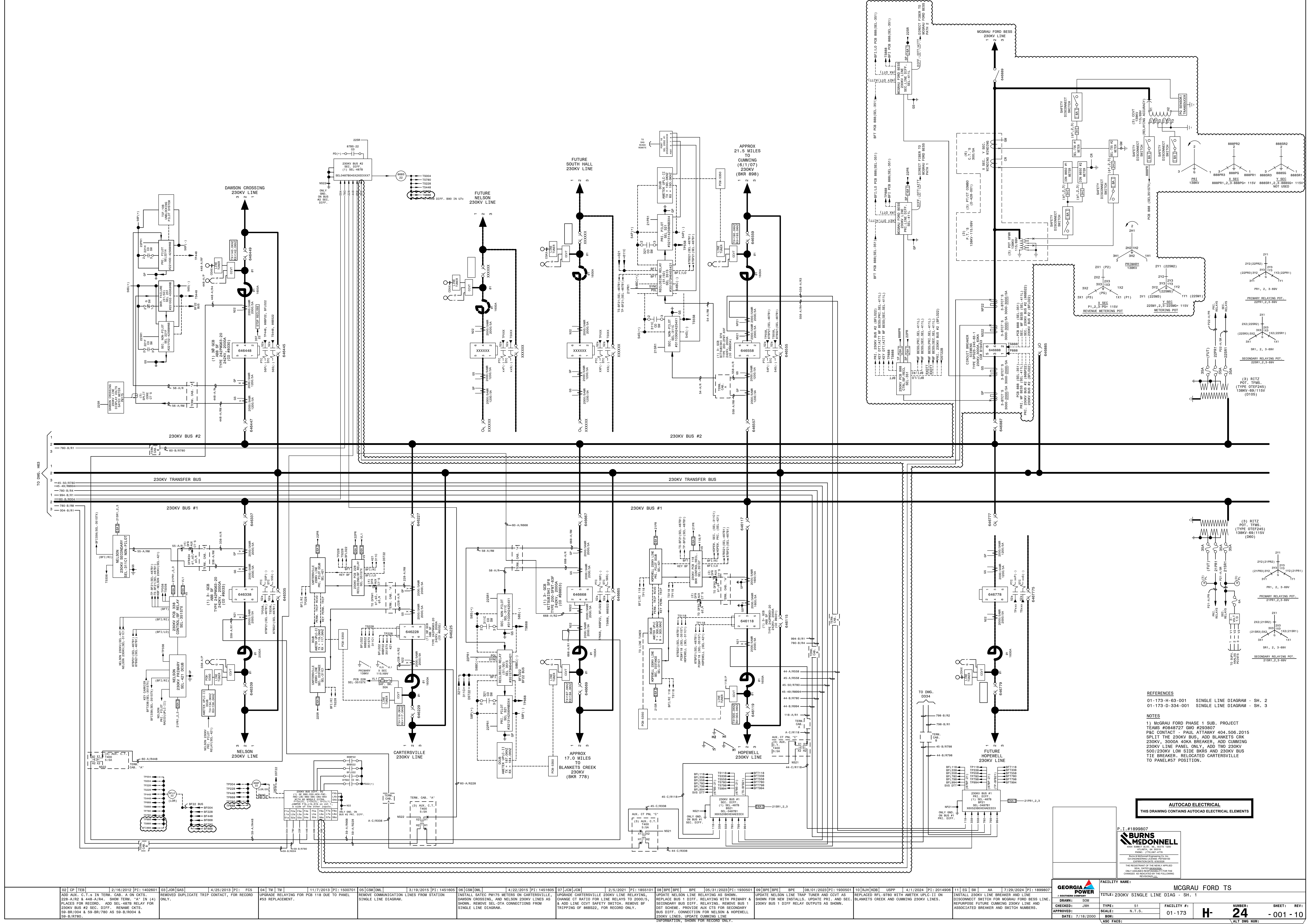
- NOTES
1. FIELD TO LOCATE NEW BATTERY EQUIPMENT.

- 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	
DRAWN: SOM	TYPE: 61
CHECKED: JWH	SCALE: 3/8"=1'-0"
APPROVED: SPC	BOM:
DATE: 7/14/2020	ASC FAC:
SHEET: 17	
REV: -001-09	

P1:	02 KM AJW	10/12/2005 P1:	03 CP TEB	2/20/2012 P1: 1402601	04 JOR GAS	4/24/2013 P1: FCS	05 BAK TW	11/7/2013 P1: 1500701	06 JCM JCM	2/6/2021 P1: 1895101	07 BPE BPE	BPE	05/31/2023 P1: 1930501	08 BPE BPE	BPE	10/12/2023 P1: 1930501	09 RJH RCL	USPP	4/1/2024 P1: 2014906	10 EG SW	AA	8/20/2024 P1: 1899807
	CARTERSVILLE PANEL NOT RELOCATED CUMMING 230KV LINE INSTALLED IN POSITION #57.		ADD SWBD. PNL. #60, PNL. #59 NOW 230KV PRI. DIFF. #2.		ADDED BUS PT THROWOVER CABINET, FOR RECORD ONLY.		REPLACE PANEL #53 DUE TO RELAY UPGRADE.		REPLACE CARTERSVILLE 230KV LINE PANEL #54. UPDATE PANEL #2, #3, & #4 NAMES, FOR RECORD ONLY.		UPDATE HOUSE LAYOUT FOR NEW 230KV BUS 1 DIFF. PANELS, NEW 230KV SVS LINE PANELS & 230KV NELSON LINE PANEL. UPDATE PRI. & SEC. BATTERY SYSTEMS TO 365AH & 50A CHARGER SETS & LATEST RCS STANDARD DESIGN.				UPDATE LAYOUT TO SHOW 480/240 DRY TYPE TRANSFORMERS SUPPLYING BATTERY CHARGERS ON FLOOR PLAN AS SHOWN.		UPDATED REFERENCE FOR REPLACEMENT OF PANEL 11.		INSTALL PANELS 13 AND 14.			



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 #0849777 GWO #239807
P&C CONTACT - PAUL ATTAWAY 404.506.2015
SPLIT THE 230KV BUS, ADD BLANKETS CRK
230KV, 5000A 40KA BREAKER, ADD CUMMING
230KV LINE PANEL ONLY, ADD TWO 230KV
500/230KV LOW SIDE BKRS AND 230KV BUS
TIE BREAKER, RELOCATED CARTERSVILLE
TO PANEL#57 POSITION.

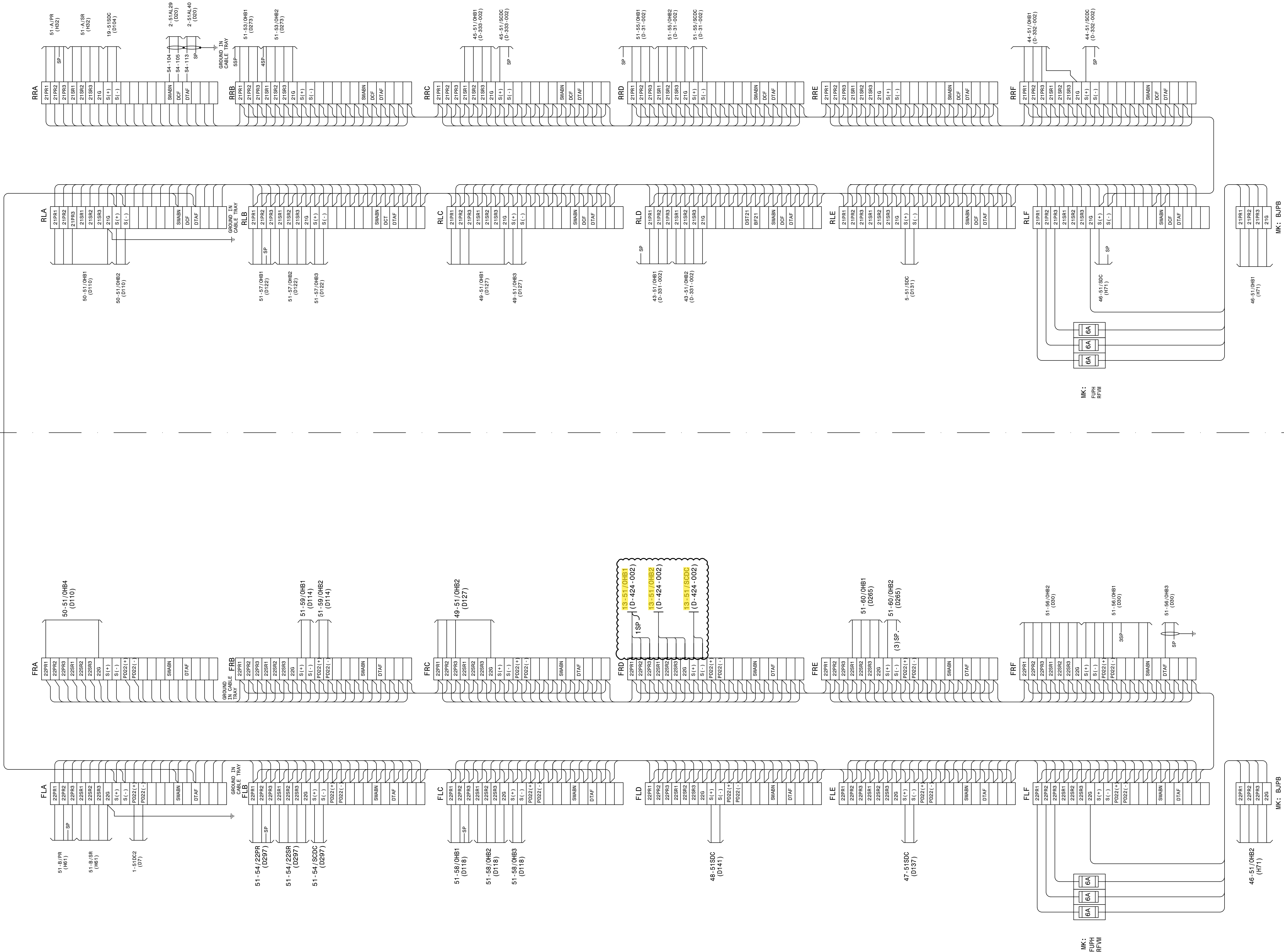
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P.1.#1899807
BURNS MEDONNELL
A SOUTHERN COMPANY
1770 5th Avenue, Suite 100
Atlanta, GA 30309
PH: 404.506.2015
FAX: 404.506.2016
WWW.BURNSMEDONNELL.COM
THE REGISTRY OF THE MEALY APPLIED
REAL ESTATE BOARD
ONLY APPLICABLE TO THE MEALY APPLIED
CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS

FACILITY NAME: MCGRAU FORD TS	
TITLE: 230KV SINGLE LINE DIAG - SH. 1	
DRAWN: SWH	TYPE: S1
CHECKED: JWH	SCALE: N.T.S.
DATE: 7/18/2000	FACILITY #: 01-173
BOM:	
ASC FACS:	
SHEET: 24	
REV: 001-10	
ACT DWG NUM:	

REAR SIDE

FRONT SIDE



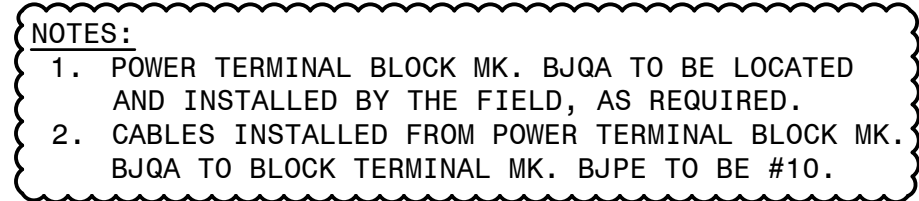
AUTOCAD ELECTRICAL
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P.I. #1899807
BURNS & MCDONNELL
A SOUTHERN COMPANY
ATLANTA, GA 30333
PHONE: 404.521.4776
FAX: 404.521.4777
BURN & MCDONNELL ENGINEERING CO., P.C.
GA PROFESSIONAL LICENSE: PE000500
EXPIRATION DATE: 03/31/2026
THE REGISTRATION OF THE SEAL APPLIED
HEREON IS LIMITED TO THE PROJECT
ONLY AND IS NOT VALID FOR ANY OTHER
PROJECTS OR FOR THE FUTURE.
ANY VIOLATION OF THESE CONDITIONS
WILL BE CONSIDERED A VIOLATION OF THE
PRACTICE ACT.

REFERENCES:
01-173-D84 SWBD, PANEL #51 DETAILS-
O.H. BUS DIST. PANEL

GEORGIA POWER A SOUTHERN COMPANY		FACILITY NAME: MCGRAU FORD TS	
TITLE: SWITCHBOARD PANEL #51 WIRING DIAGRAM OVERHEAD BUS DISTRIBUTION PANEL		NUMBER: 27	
DRAWN: JWH	TYPE: WD	FACILITY #: 01-173	SHEET: REV: -001-10
APPROVED: DATE: 5/14/2008	SCALE: N.T.S.	BOB:	ALT DWG NUM:

P1:	03 [PW] AJW	9/6/2007	P1: 0848727	04 CP TEB	9/6/2007	P1: 1402801	05 [BAK] TW	11/11/2013	P1: 1500701	06 [BAS] JWH	USPP	3/27/2020	P1: 1616363	07 [JCH] JCH	2/6/2021	P1: 1885101	08 [BPE] BPE	BPE	05/31/2023	P1: 1930501	09 [BPE] BPE	BPE	10/12/2023	P1: 1930501	10 [BPE] BPE	BPE	02/28/2024	P1: 1943901	11 EQ DN	AA	8/20/2024	P1: 1899807
(JWH 04-18-07) REVISED POTENTIAL GROUND.		ADDE CKTS. 51-60/OHB1 & 51-60/OHB2.		REMOVE OLD CABLES 51-53/OHB1, 51-53/OHB2, 51-54/OHB3. ADD NEW CABLES 51-53/OHB1, 51-53/OHB2, 51-53/OHB3.		FC410 (CC): UPDATED STATUS POINT NAMES.		REMOVE CABLES 51-54/OHB1, 51-54/OHB2, 51-54/OHB3. ADD CABLES 51-54/22PH, 51-54/22BR, 51-54/SCDC.		ADD CIRCUITS FOR NEW PANELS AS SHOWN.		UPDATE RRC STATES BLOCK CABLE TO CONNECT TO 21BR CIRCUIT AS SHOWN.		UPDATE DRAWING PER FIELD CHANGES AS SHOWN.		INSTALL CABLE 13-51/OHB1, 13-51/OHB2, AND 13-51/SCDC.																



REFERENCES:

15-371-H17	CONTROL PANEL LAYOUT
15-371-D83	SWBD. CONSTRUCTION DETAILS 32" TERMINATION CABINETS A-H

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.I.#1899807


**BURNS
MCDONNELL**

4004 SUMMIT BLVD. NE, SUITE 1200
ATLANTA, GA 30319
PHONE: (770) 567-4776

Burns & McDonnell Engineering Co. Inc.
GA ENGINEERING LICENSE: PEFC001010
EXPIRATION DATE: 6/30/2026

THE REGISTRATION OF THE NEWLY APPLIED
SEAL, DATED 06/06/2024,
ONLY VALID FOR THE NEW FOOD TAG

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

 GEORGIA POWER <small>A SOUTHERN COMPANY</small>	FACILITY NAME: MCGRAU FORD TS				
	TITLE: TERMINATION CABINET G CONNECTION DIAGRAM				
	DRAWN: AJW				
	CHECKED: JLC APPROVED: AJW DATE: 05/30/2005	TYPE: WD SCALE: N.T.S. BON:	FACILITY #: 01-173	NUMBER: H-68	SHEET: REV: - 001 - 02

LEFT SIDE SHEET

