


P.I. #1899807

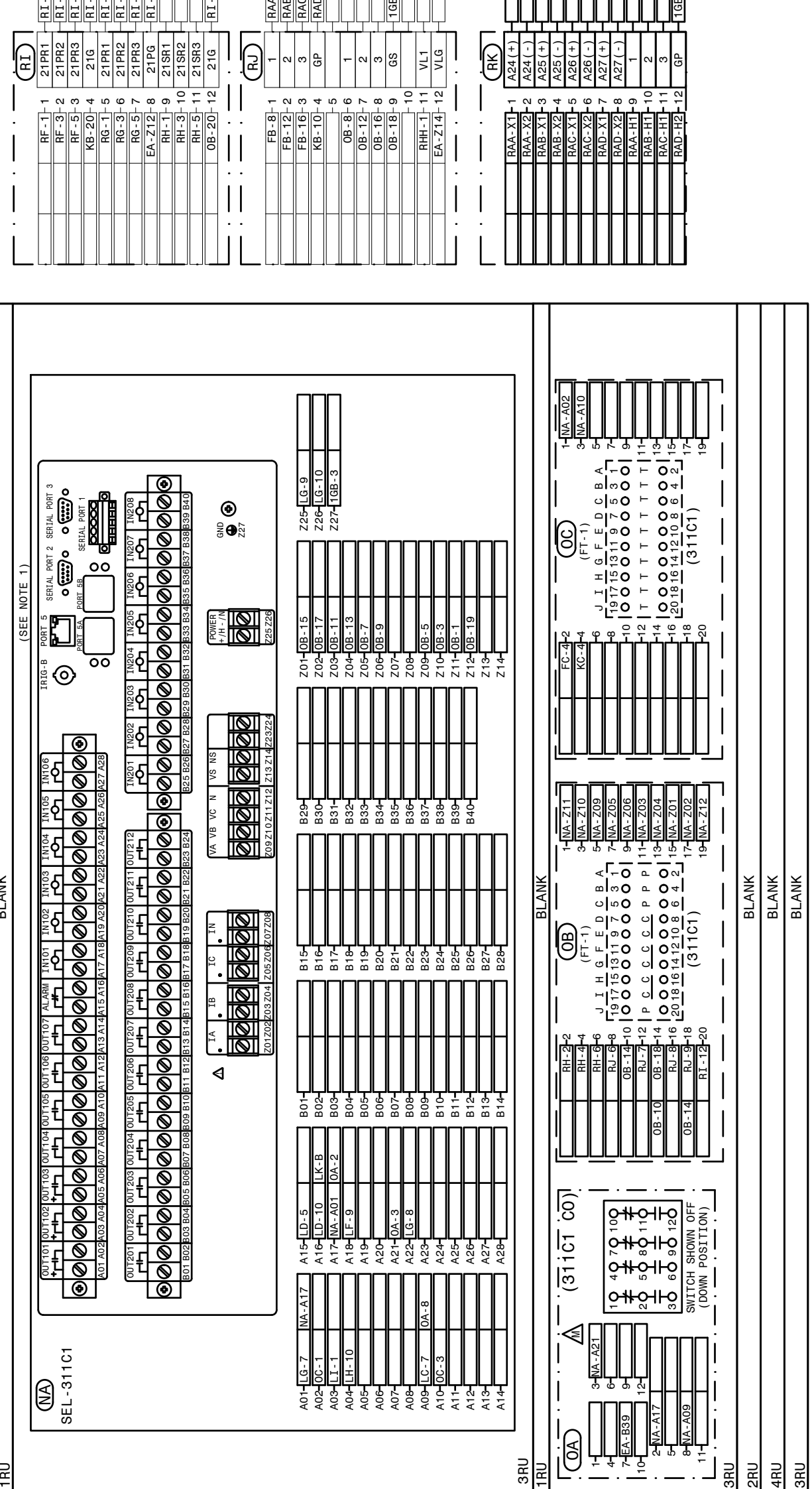
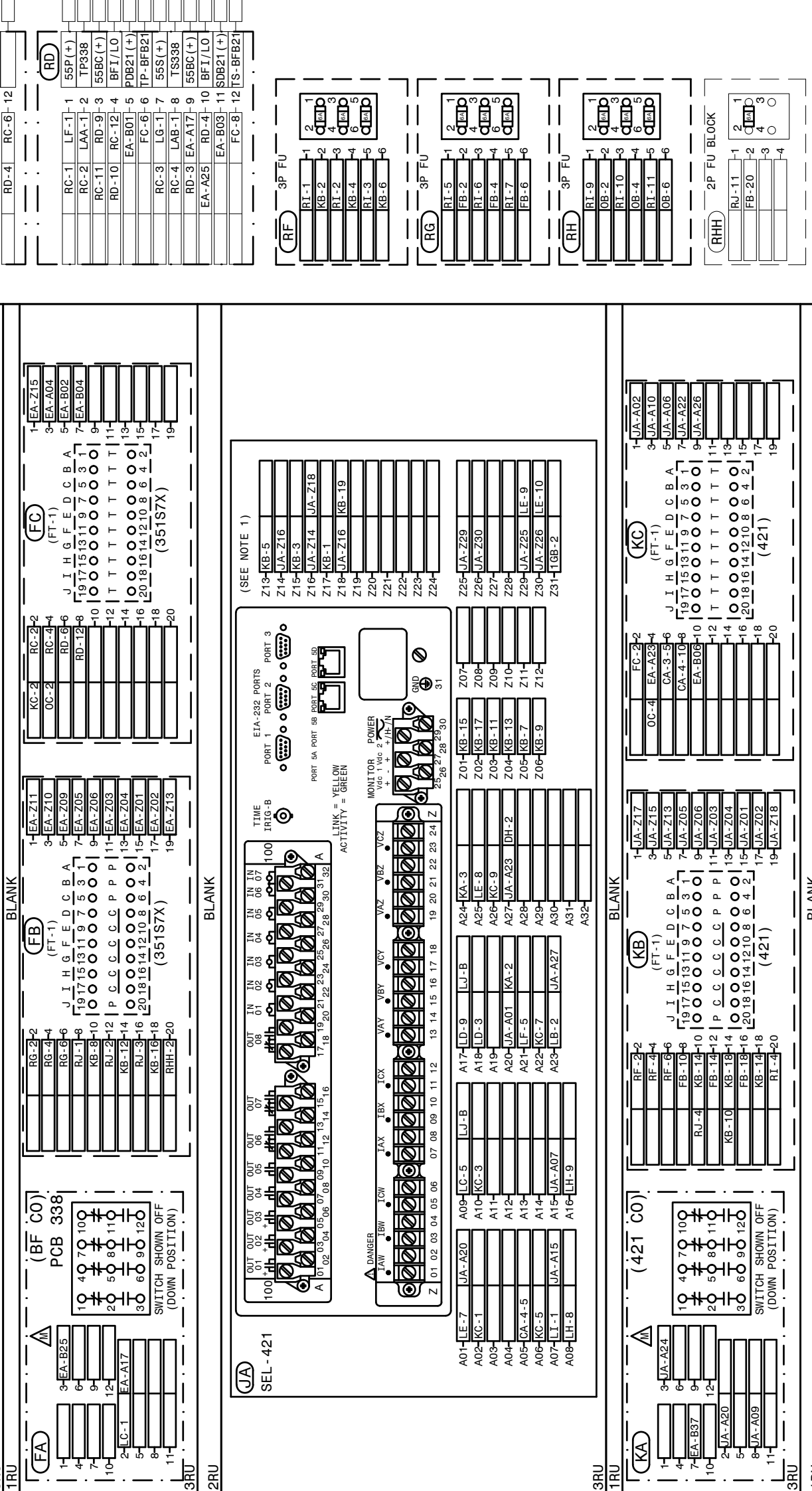
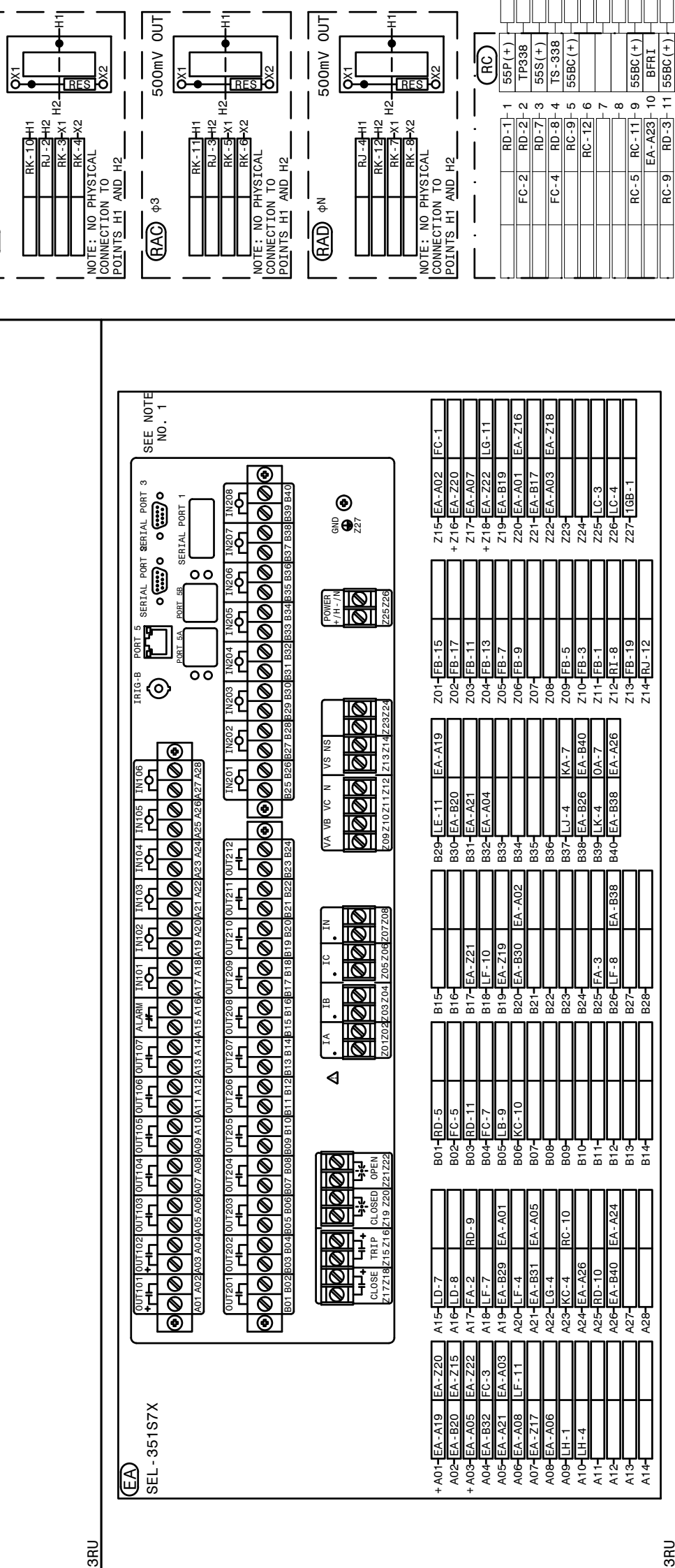
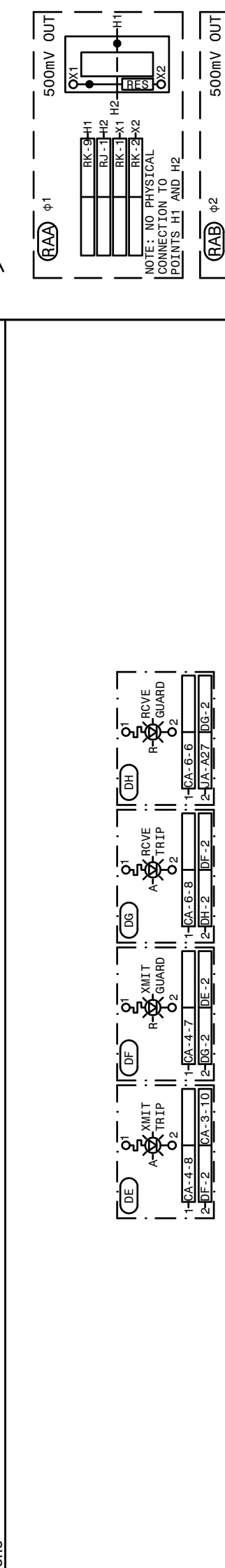
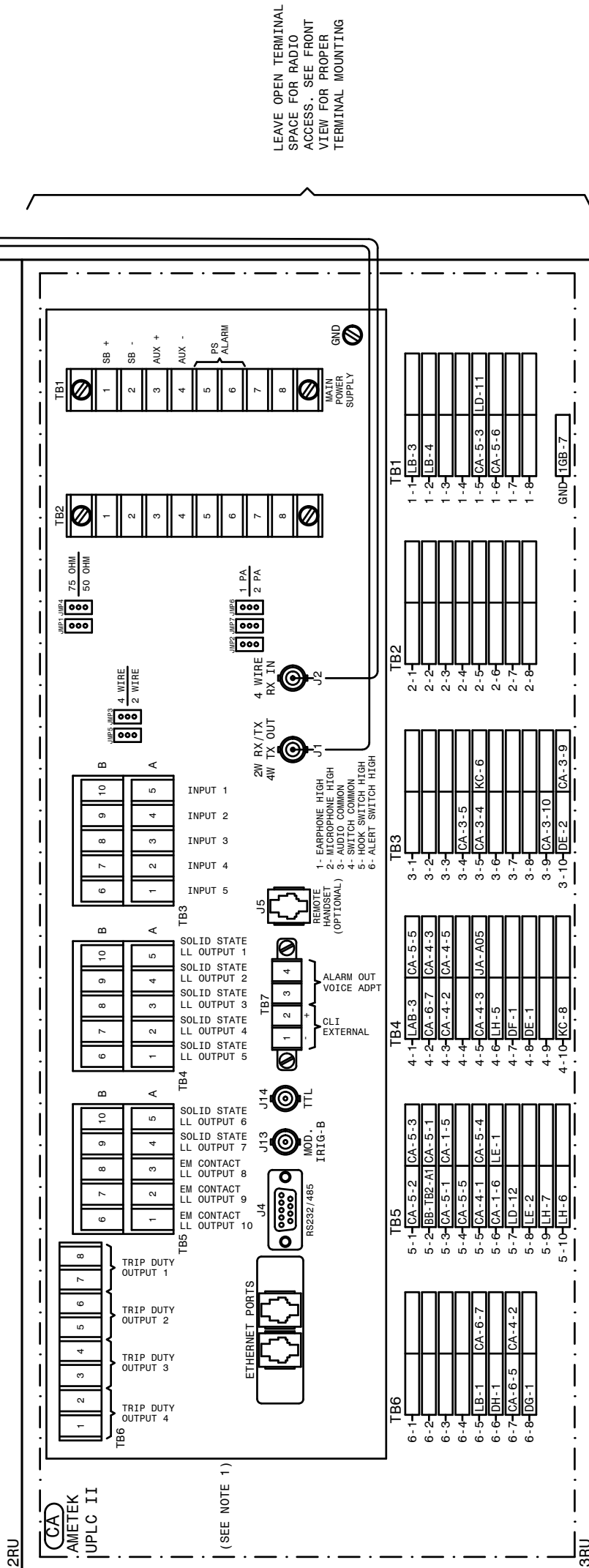
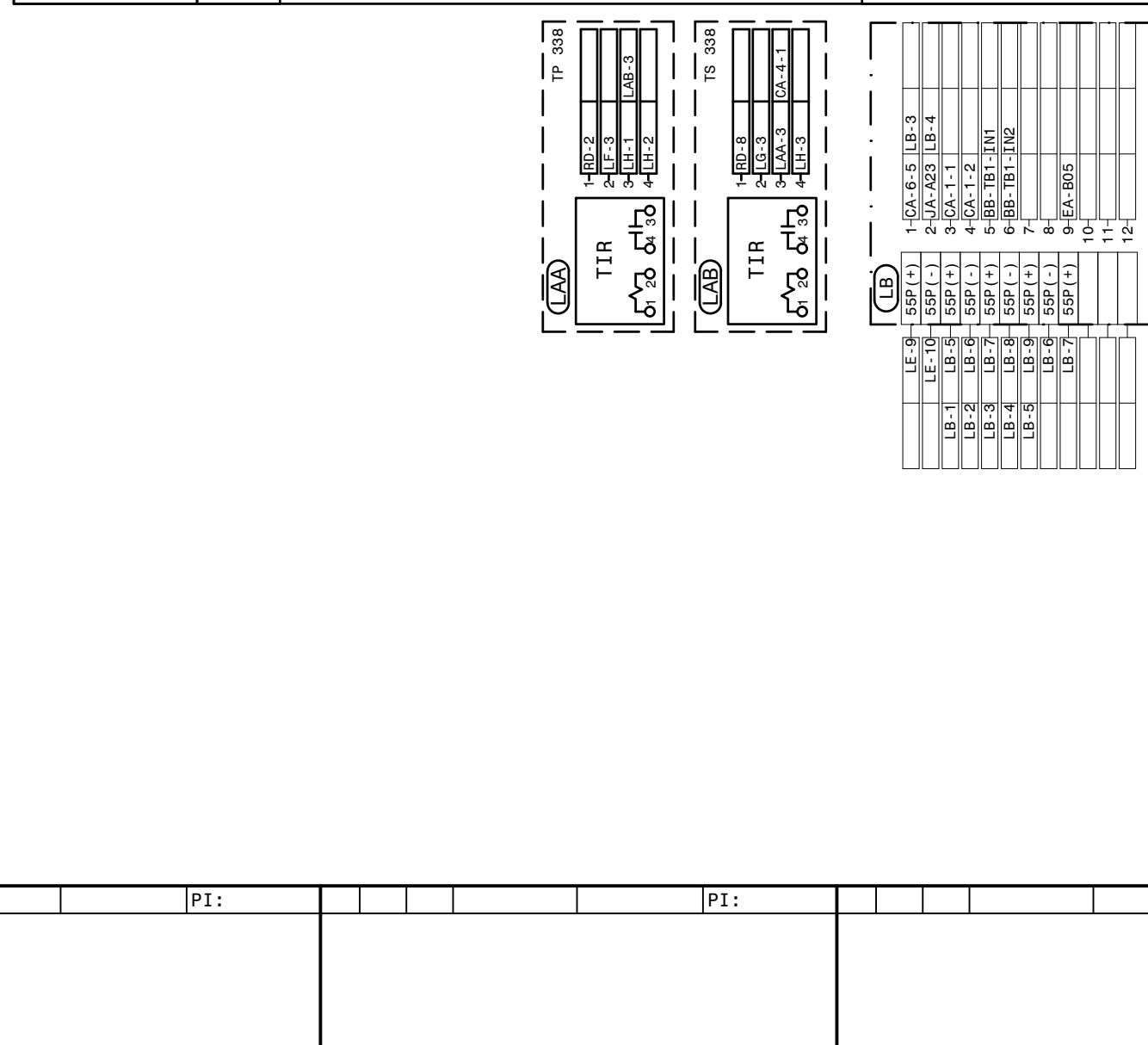
 **BURNS
MCDONNELL**

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

Burns & McDonnell Engineering Co. Inc.
GA ENGINEERING LICENSE: PE#00100
EXPIRATION DATE: 6/30/2026


THE REGISTRATION OF THE NEWLY APPLIED
SEAL, DATED 03/03/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 06.

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



NOTES:


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

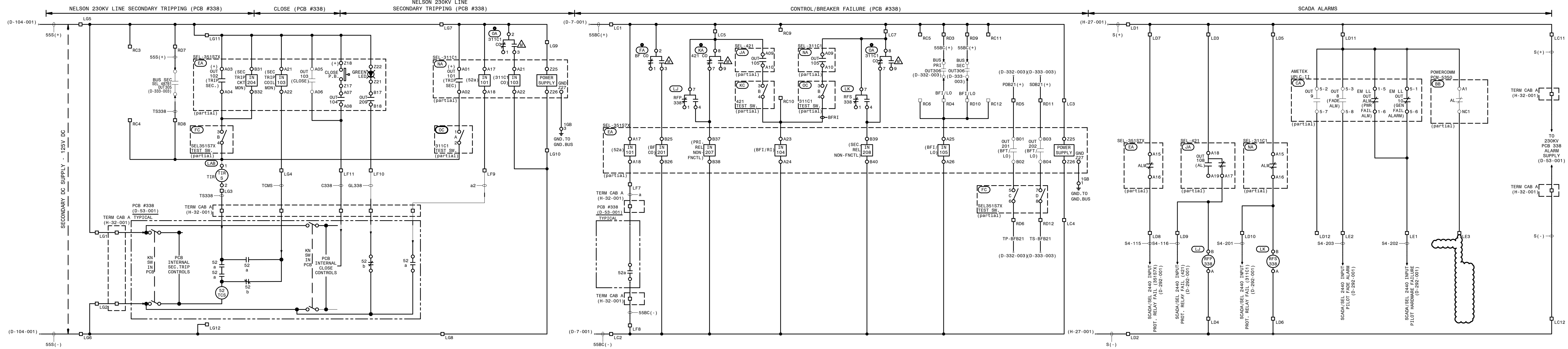
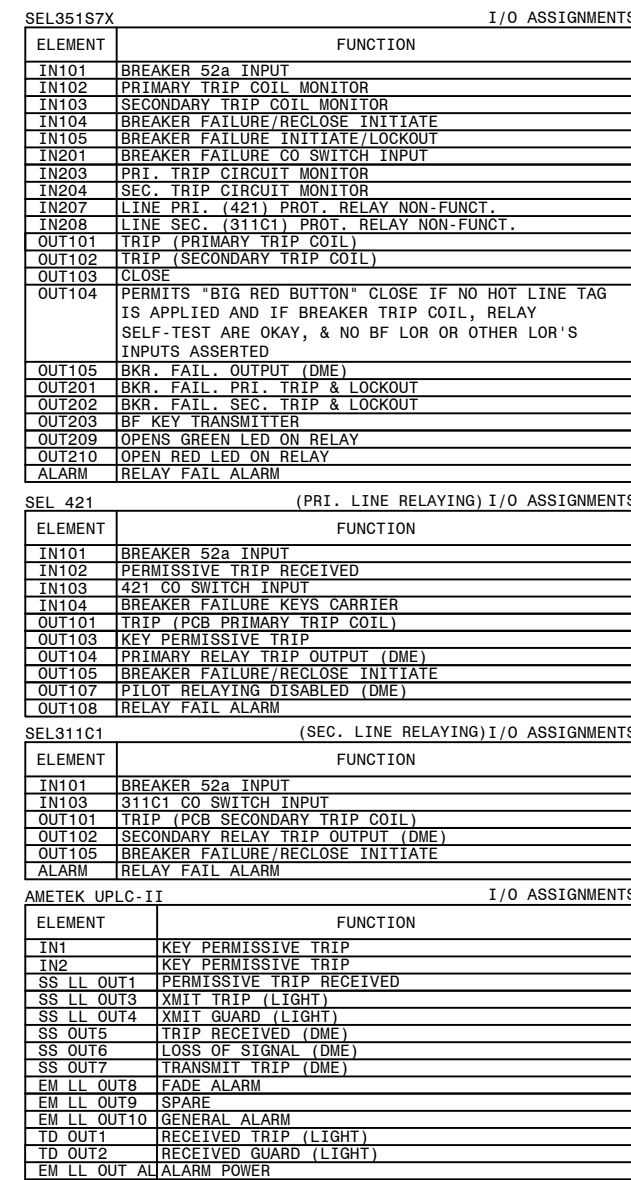
 - MAINTAINED TOGGLE SWITCH





| | | | |
|--|---|--|----------|
| REFERENCES: 01-173-D31-001 01-173-D31-003 01-173-D31-004 01-173-D31-005 01-173-D31-006 | PANEL #55 FRONT VIEW & NAMEPLATES PANEL #55 DC ELEMENTARY DIAGRAM PANEL #55 AC ELEMENTARY DIAGRAM PANEL #55 LOGIC DIAGRAM (351STX) PANEL #55 LOGIC DIAGRAM (421, 311C1) | DA ENGINEERING LICENSE: PEP00100 EXPIRATION DATE: 6/30/2026 THE REGISTRANT OF THE NEWLY APPLIED SEAL, DATED <u>04/02/2024</u> , ONLY ASSUMES RESPONSIBILITY FOR THE CHANGES AS INDICATED BY THE FOLLOWING REVISIONS: <u>04</u> | NIP-SEAL |
|--|---|--|----------|

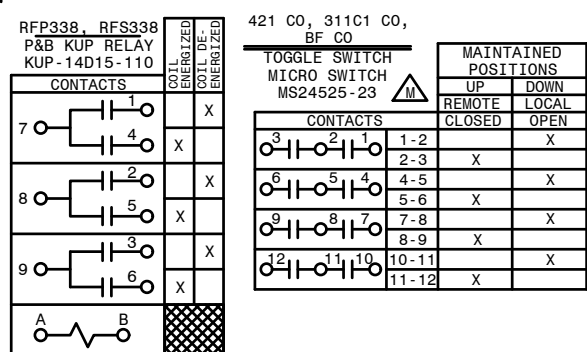
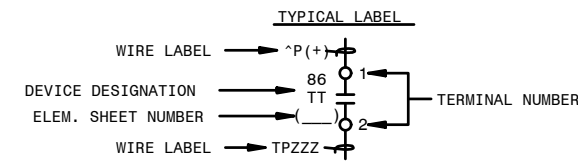
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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: BPE | TYPE: WD | FACILITY #: | NUMBER: 31 |
| | APPROVED: 1943901 | SCALE: N.T.S | 01-173 | SHEET: REV: - 002 - 01 |
| | DATE: 05/31/2023 | BOM: | ALT DWG NUM: DCUB | |
| ASC FACES: | | | | |




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



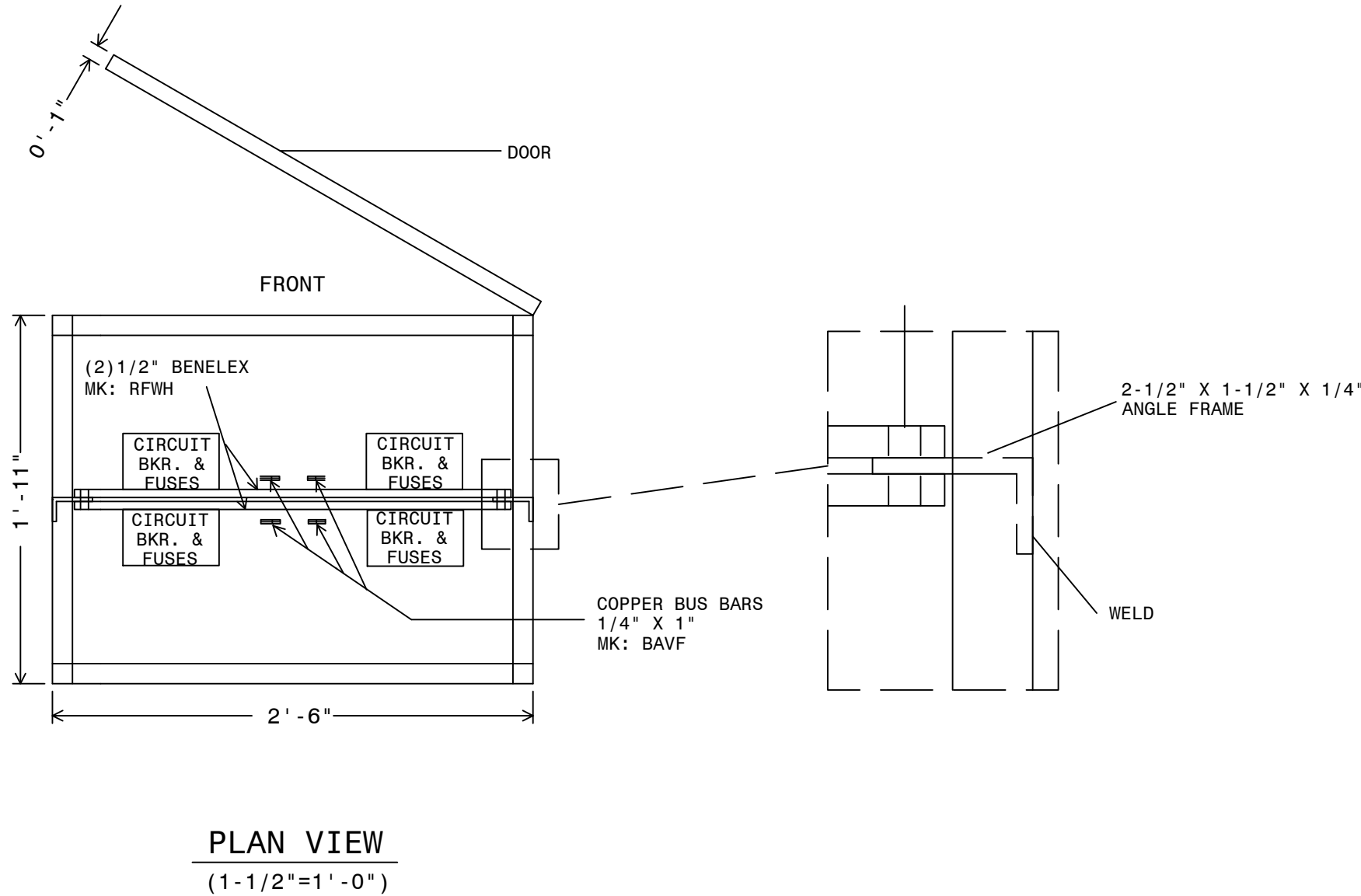
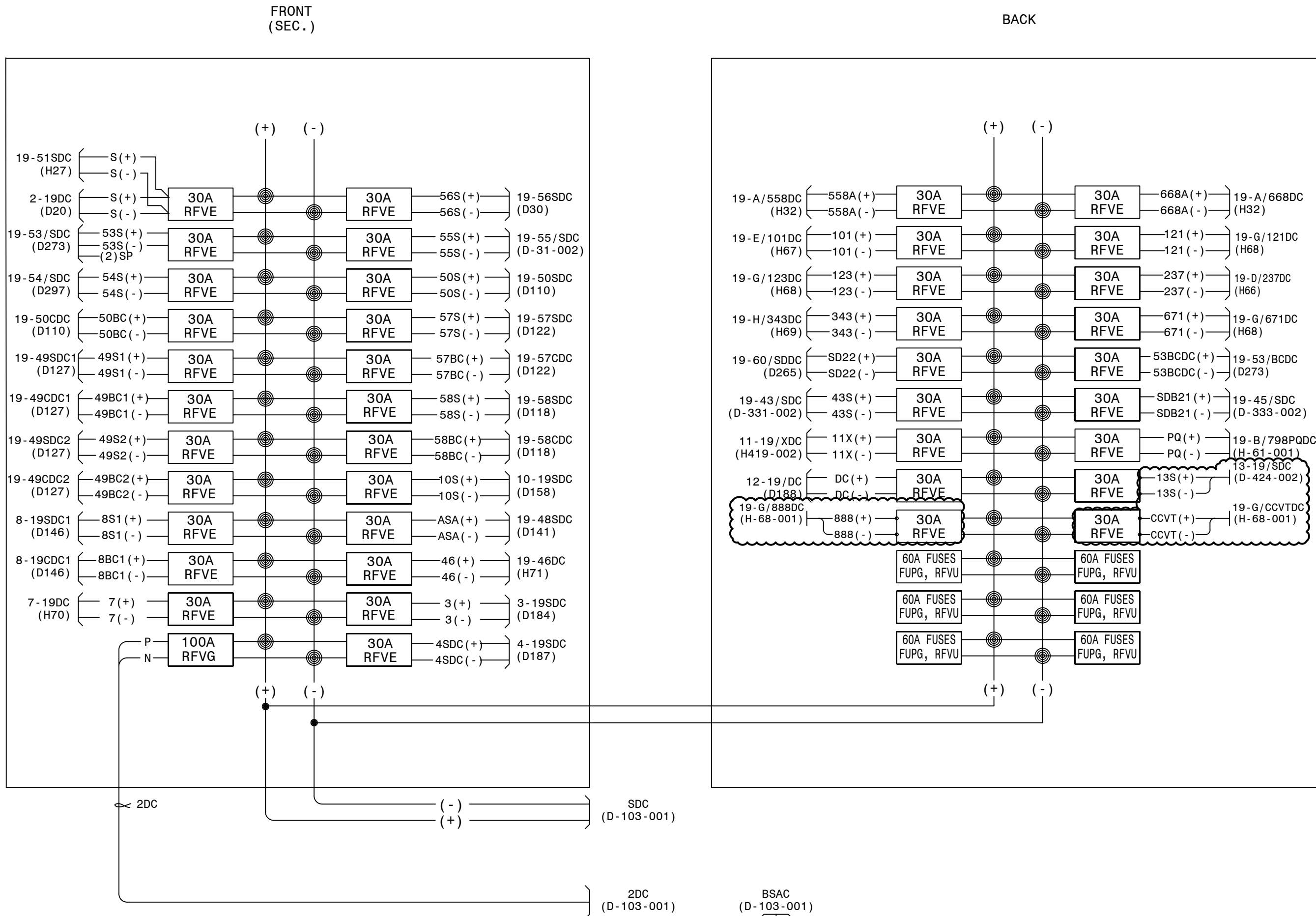
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

| | |
|-----------------|--------------------------------------|
| 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) |

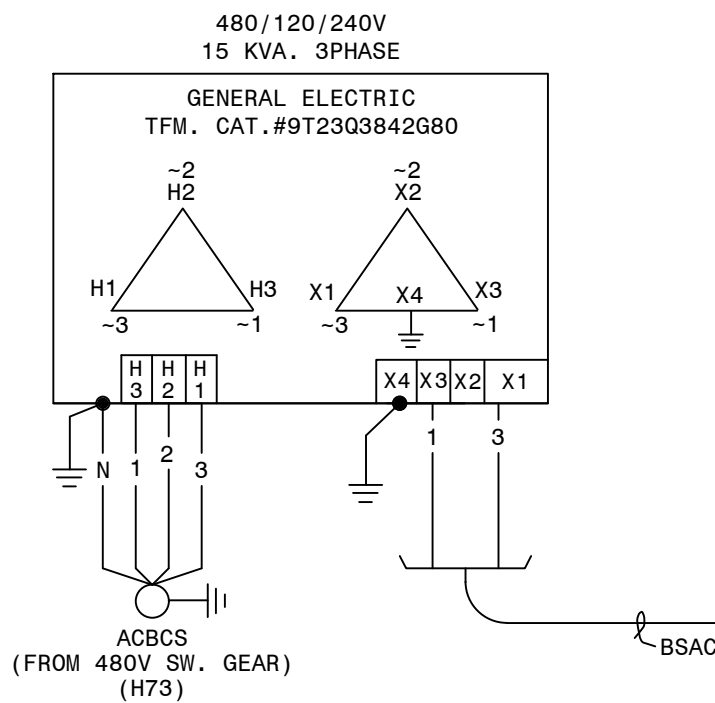
TRANS. LINE DIRECTIONAL COMPARISON UNBLOCKING/STEP DISTANCE- (STRAIGHT BUS)

| | | | | | | | | | | |
|---|--|---------------|-------------|------------|-------------|--|--|--|--|-----------------|
|  A SOUTHERN COMPANY | FACILITY NAME: MCGRAU FORD TS | | | | | | | | | |
| | TITLE: PANEL #55, DC ELEMENTARY - NELSON 230KV LINE, SEL421 (PRI DCUB), SEL311C1 (SEC), SEL35157X (BF/RECL) RELAYING | | | | | | | | | |
| | CHECKED: BPE | TYPE: 52 | FACILITY #: | NUMBER: 31 | SHEET: REV: | | | | | |
| | APPROVED: 1943091 | SCALE: N.T.S. | 01 - 173 | D- | - 003 - 02 | | | | | |
| | DATE: 05/31/2023 | BOM: | | | | | | | | |
| ASCS FACS: | | | | | | | | | | AL 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 | |

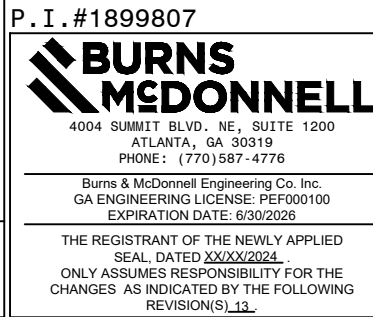


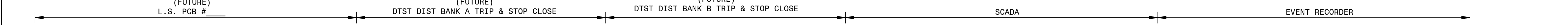
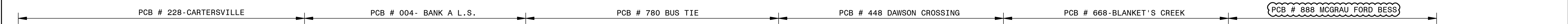
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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)





C4.4.2

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|--|-----|--|---|--|----------------|--|--|--|-----------------------|--|---|--|-------------------|--|---|--|-----------------------|--|----------------------------|--|----------------------|--|----------|--|----|--|-----------------------|--|--|--|
| PI: | | PI: | | 02 PJW RSW | | 10/31/2006 PI: | | 03 CP TEB | | 2/27/2012 PI: 1402601 | | 04 JOR GAS | | 4/24/2013 PI: FC5 | | 05 BAS JWH USPP | | 3/27/2020 PI: 1616363 | | 06 JCM JCM | | 2/5/2021 PI: 1855101 | | 07 EG SW | | AA | | 8/16/2024 PI: 1899807 | | <div><div><div>GEORGIAPOWER</div><div>A SOUTHERN COMPANY</div></div><div><div><div>DRAWN:</div><div>JLC</div></div><div><div>CHECKED:</div><div>PSA</div></div><div><div>APPROVED:</div><div>AJW</div></div><div><div>DATE:</div><div>1/30/2005</div></div></div><div><div><div>TYPE:</div><div>52</div></div><div><div>SCALE:</div><div>NO SCALE</div></div><div><div>BOM:</div><div></div></div></div><div><div><div>FACILITY #:</div><div>01-173</div></div><div><div>NUMBER:</div><div>D-112</div></div><div><div>SHEET:</div><div>- 001 - 06</div></div><div><div>REV:</div><div></div></div></div></div> | |
| FC366 (JSH) REVISED WIRE LABELS. | | | | ADD CROSS TRIGGERS TO SEL-487B. ADD U7C (B90) & DST22A/B INPUTS FROM NEW 86BS22. REMOVE TEST JUMPER FROM LE1/2. REMOVE OLD 86BS22 CONTACTS. GE-B90 NOW #2 PRI. DIFF. DST 22B CONTACT 2/3 NOW CONNECTED TO BFI/L0. DWG. TITLE NOW CHANGED TO BUS #2 PRI. DIFF. | | | | ADDED SECONDARY DIFF LINKS, CHANGED TO B CONTACT, REMOVED 'TEST' BREAKER LABEL, FOR RECORD ONLY. | | | | FC#10 (CC): UPDATED STATUS POINT NAMES. | | | | REPLACE CARTERSVILLE 230KV LINE RELAYING PANEL. REMOVE REFERENCE TO TEST BREAKER ON GE-B90 W1a INPUT. REMOVE LEFTOVER 86BS22 CONTACTS, FOR RECORD ONLY. FIELD CHANGE: UPDATE MISC GE-B90 CONNECTIONS. | | | | ADD RELAYING FOR PANEL 13. | | | | | | | | | | | |



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

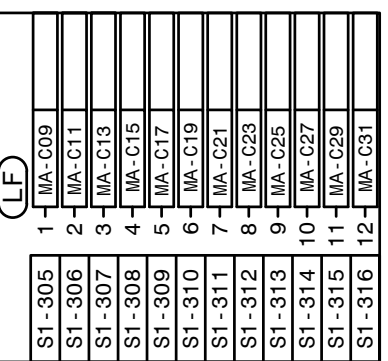
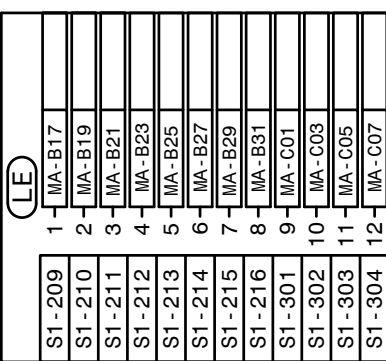
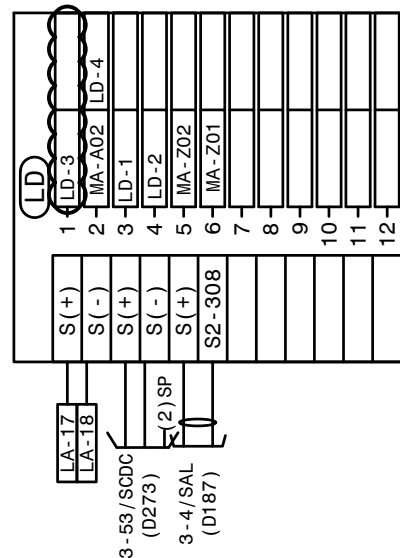
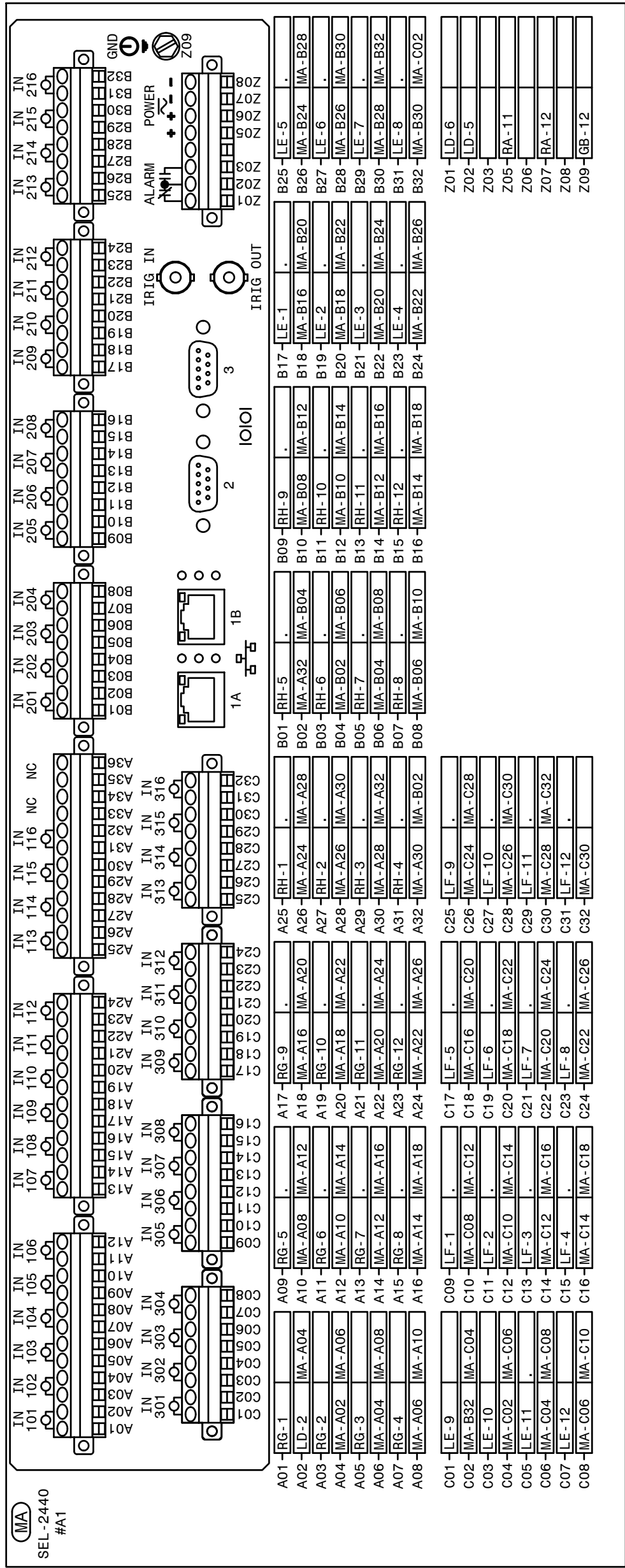
P. I. #1899807

**BURNS
MCDONNELL**

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

Burns & McDonnell Engineering Co. Inc.
GA ENGINEERING LICENSE: PE#00100
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED 02/06/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 1, 63.




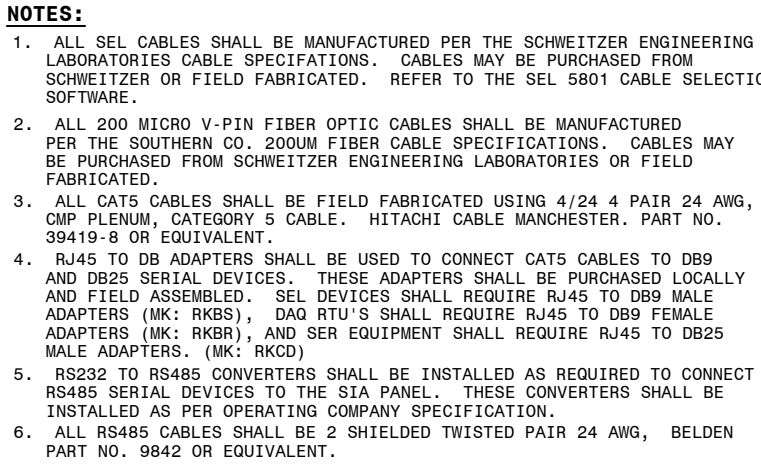
* IF RADIO NOT REQUIRED, LEAVE PORT BLANK

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 | | | | | | | |
| | DRAWING: | | | | | | | |
| | CHECKED: | TYPE: WD | FACILITY #: | NUMBER: | SHEET: | REV: | | |
| | APPROVED: | SCALE: N.T.S. | 01 - 173 | D | 184 | | | |
| DATE: 5/14/2008 | | BOM: | | | | | - 001 - 13 | |
| ASC FACIS: | | | | ALT DWG NUM: | | | | |




REFERENCES:

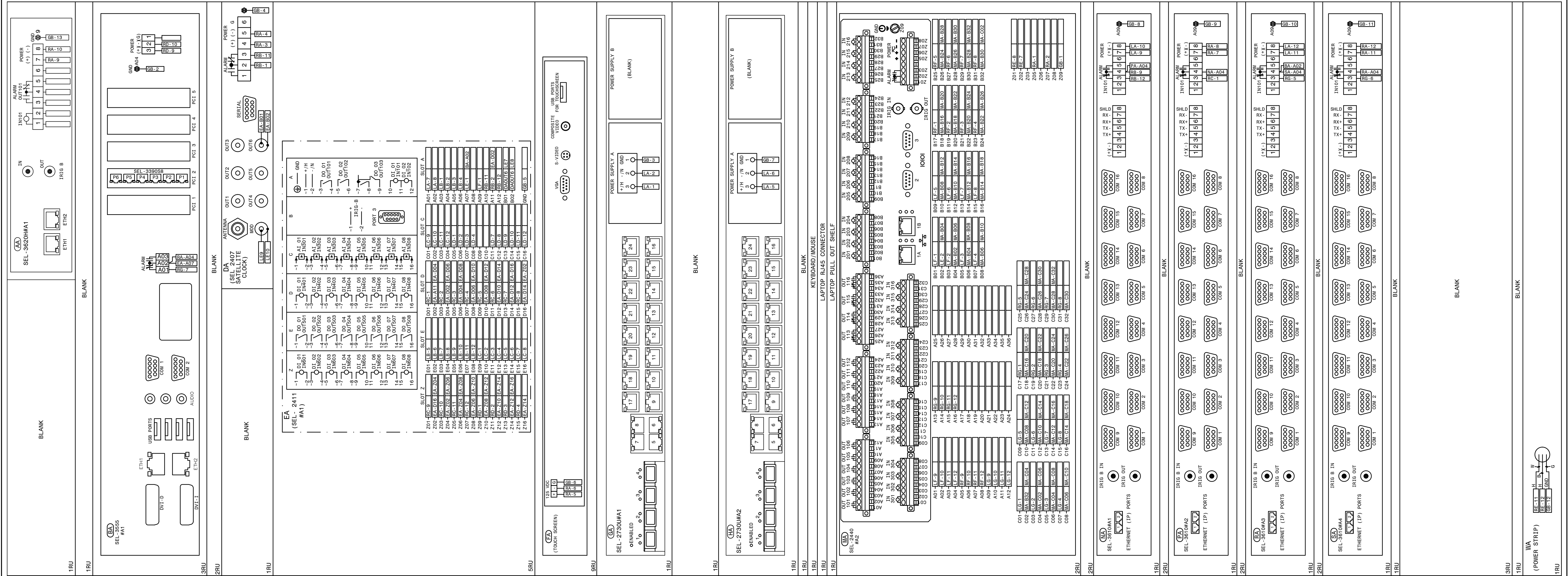
| | |
|--|----------|
| PANEL #2 FRONT VIEW, TRANSMISSION SIA PANEL | 173-182 |
| PANEL #3 FRONT VIEW, TRANSMISSION SIA PANEL | 173-190 |
| PANEL #3 FRONT VIEW, TRANSMISSION SIA PANEL | 173-192 |
| PANEL #2 WIRING DIAGRAM, IT PANEL | 173-181A |
| PANEL #4 FRONT VIEW 500KV TRANSMISSION SIA PANEL | 173-185 |
| PANEL #4 WIRING DIAGRAM, TRANSMISSION SIA PANEL | 173-191 |
| PANEL #1 ELEMENTARY DIAGRAM SH. 1 TRANSMISSION SIA PANEL | 173-184 |
| PANEL #3 ELEMENTARY DIAGRAM SH. 1, IT PANEL | 173-186 |
| PANEL #1 ELEMENTARY DIAGRAM SH. 2, IT PANEL | 173-187 |
| PANEL #2 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL | 173-189 |
| PANEL #2 ELEMENTARY DIAGRAM SH. 2 TRANSMISSION SIA PANEL | 173-192 |


**BURNS
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4004 SUMMIT BLVD. NE, SUITE 1200
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PHONE: (770)587-4776

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

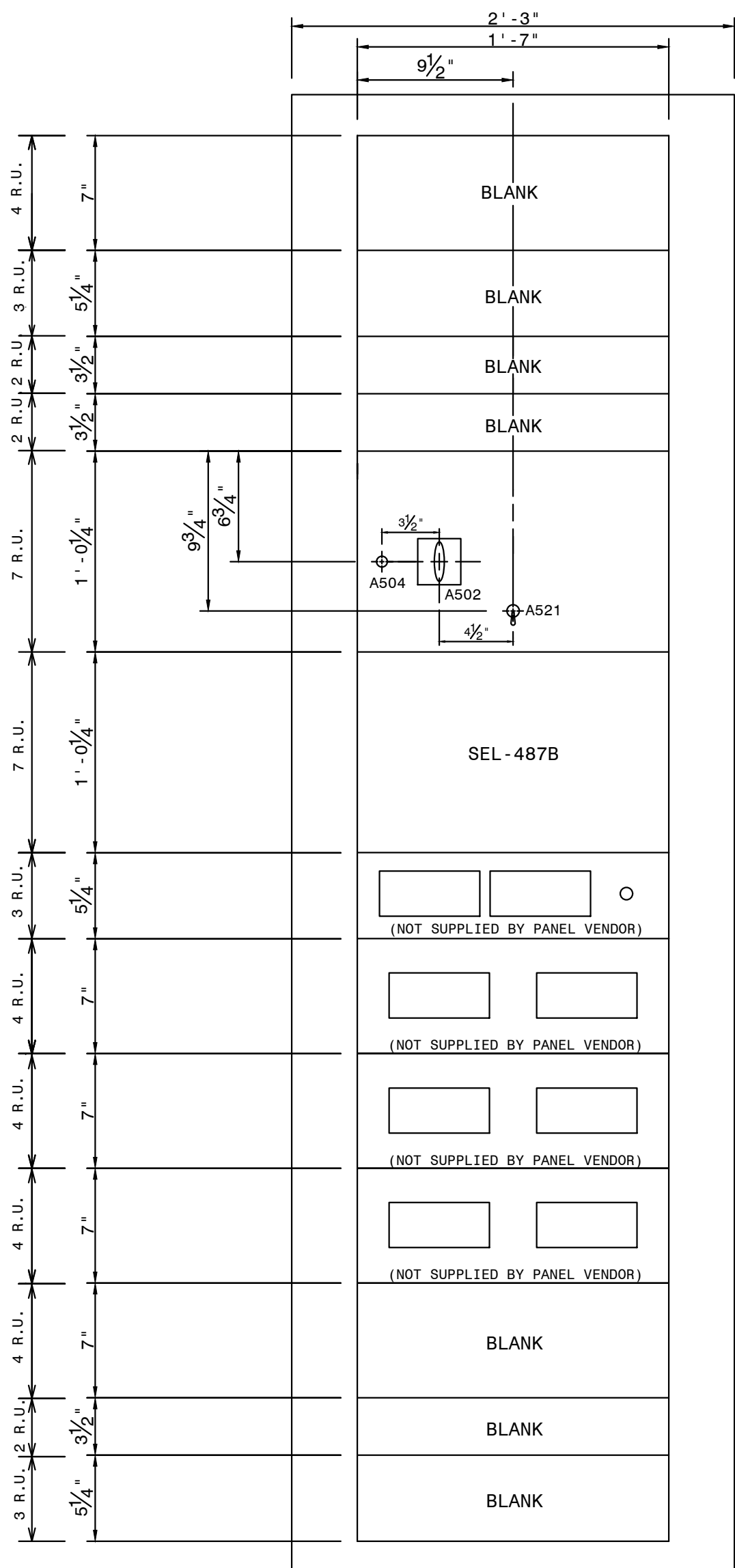
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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

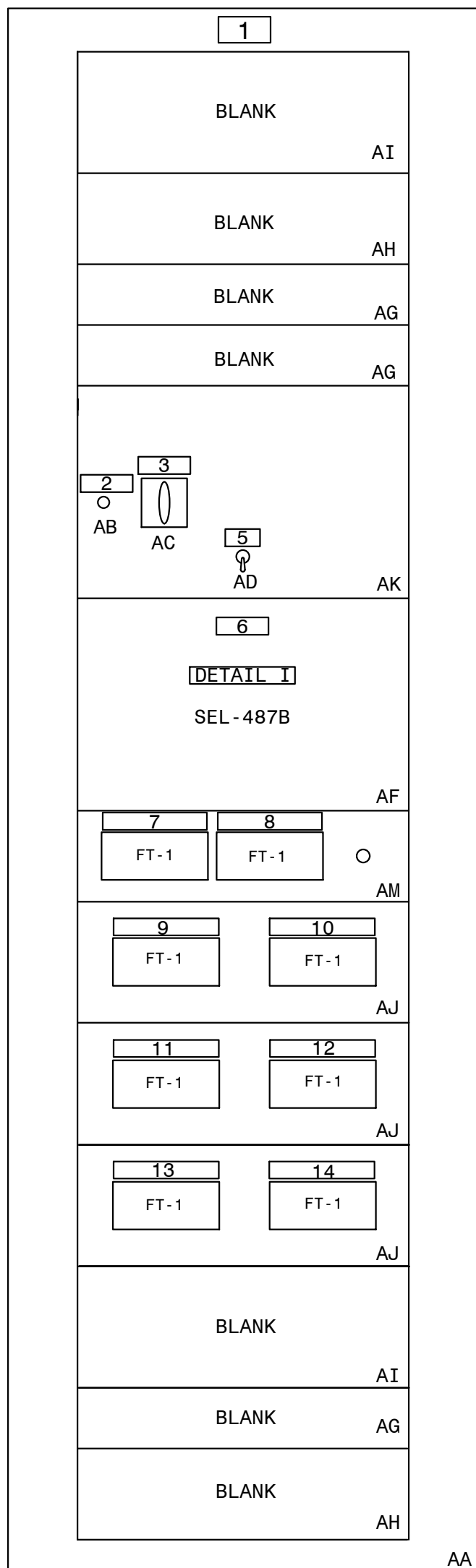


| | | | | | | | | |
|--|--|------------|-------------|-----------|----------------|------|--|-------------------|
|  GEORGIA POWER <small>A SOUTHERN COMPANY</small> | FACILITY NAME: | | | | MCGRAU FORD TS | | | |
| | TITLE: 230KV YARD STATION SERVICE & THROWOVER CABINET #1 | | | | | | | |
| | DRAWING: OLC | TYPE: WD | FACILITY #: | NUMBER: | SHEET: | REV: | | |
| | CHECKED: RLJ | SCALE: NTS | 01 - 173 | D- | 215 | | | |
| APPROVED: AJW | BOM: | | | | | | | - 001 - 03 |
| DATE: 07-18-05 | ASC FACs: | | | | ALT DWG NUM: | | | |

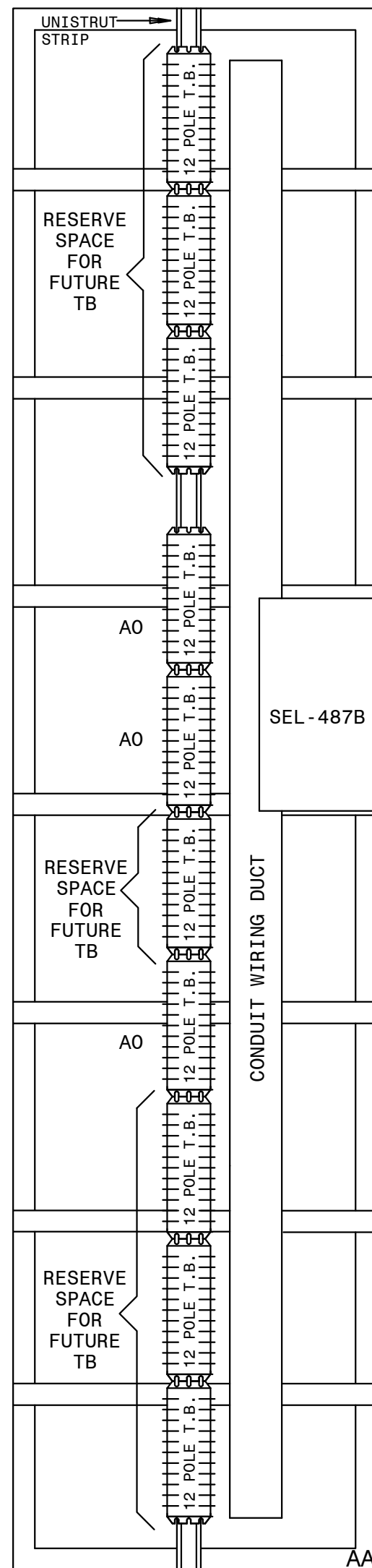
| LABEL DETAILS | | | | | |
|---------------|-------------------------------|-----------------|------------------------------------|-------------|------------|
| LABEL NO. | FIRST LINE | SECOND LINE | THIRD LINE | FOURTH LINE | FIFTH LINE |
| 1 | PANEL NO. 60 | | DWG. NO. 01-173-D263 | | |
| 2 | TRIP CIRCUIT MONITOR | 86BS-22 RELAY | | | |
| 3 | SECONDARY AUX. TRIPPING RELAY | 86BS-22 | TRIPS-004, 228, 448, 668, 780, 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 | | | | |



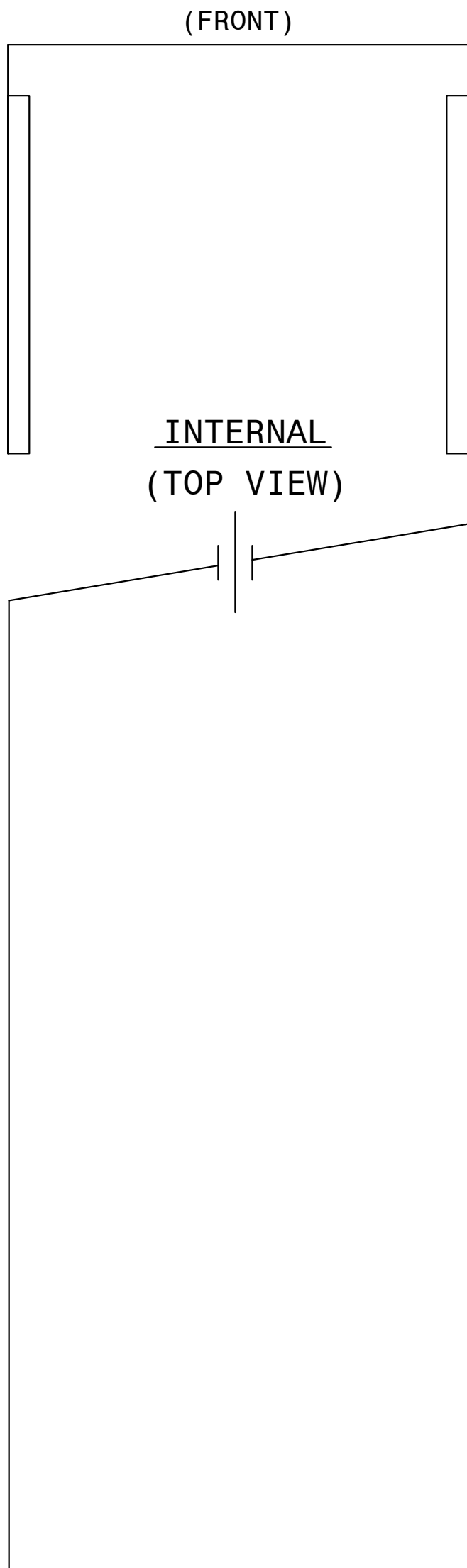
FRONT PANEL
(PUNCH MARKS)



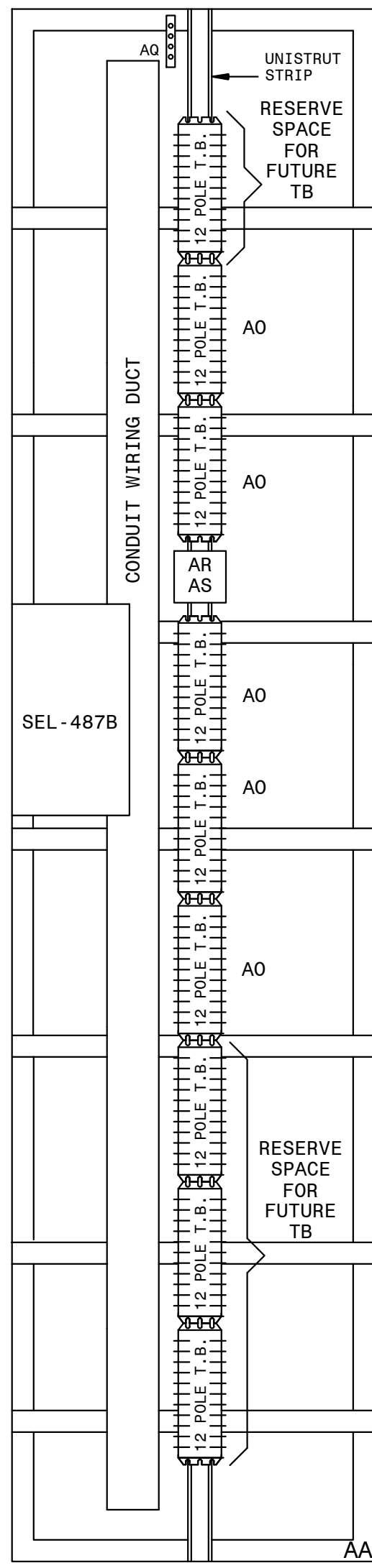
FRONT PANEL
(NAMEPLATES AND MATERIAL MARKS)



LEFT REAR



FRONT PANEL
(INTERNAL PANEL REAR VIEW)



RIGHT REAR

| 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 | RGHJ | SWITCH, TOGGLE, 4-POD | 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 | |

DETAIL A

| 87BS-22 TEST SWITCH | | | | | | | | | |
|---------------------|---|------------------|---|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
| SEC. TRIP 86BS22 | | BF TRIP 22 | | 004 SEC TRIP | 004 BF1/ LO | 228 SEC TRIP | 228 BF1/ LO | 448 SEC TRIP | 448 BF1/ LO |
| A | B | C | D | E | F | G | H | I | J |

DETAIL B

| 87BS-22 TEST SWITCH | | | | | | | | | |
|---------------------|-------------------|--------------------|-------------------|---------------------|--------------------|--------------------|---|---|---|
| 668 SEC TRIP | 668 BFI/ LO | 780 SEC TRIP | 780 BFI/ LO | FUT. SEC TRIP | FUT. BFI/ LO | 888 SEC TRIP | | | |
| A | B | C | D | E | F | G | H | I | J |

DETAIL C

| 487B TEST SWITCH (004) | | | | | | | | | |
|------------------------|----|----|----|-----|----|-----|----|-----|----|
| V1 | V2 | V3 | C1 | C11 | C2 | C22 | C3 | C33 | VG |
| A | B | C | D | E | F | G | H | I | J |

DETAIL D

| 487B TEST SWITCH (228) | | | | | | | | | |
|------------------------|---|---|----|-----|----|-----|----|-----|---|
| | | | C1 | C11 | C2 | C22 | C3 | C33 | |
| A | B | C | D | E | F | G | H | I | J |

DETAIL E

| 487B TEST SWITCH (448) | | | | | | | | | |
|------------------------|---|---|----|-----|----|-----|----|-----|---|
| | | | C1 | C11 | C2 | C22 | C3 | C33 | |
| A | B | C | D | E | F | G | H | I | J |

DETAIL F

[illegible]

DETAIL G

| 487B TEST SWITCH (780) | | | | | | | | | |
|------------------------|---|---|----|-----|----|-----|----|-----|---|
| | | | C1 | C11 | C2 | C22 | C3 | C33 | |
| A | B | C | D | E | F | G | H | I | J |

DETAIL H

[illegible]

NOTES:


1. CABLE ENTRY IS FROM TOP OF PANEL.

REFERENCES:

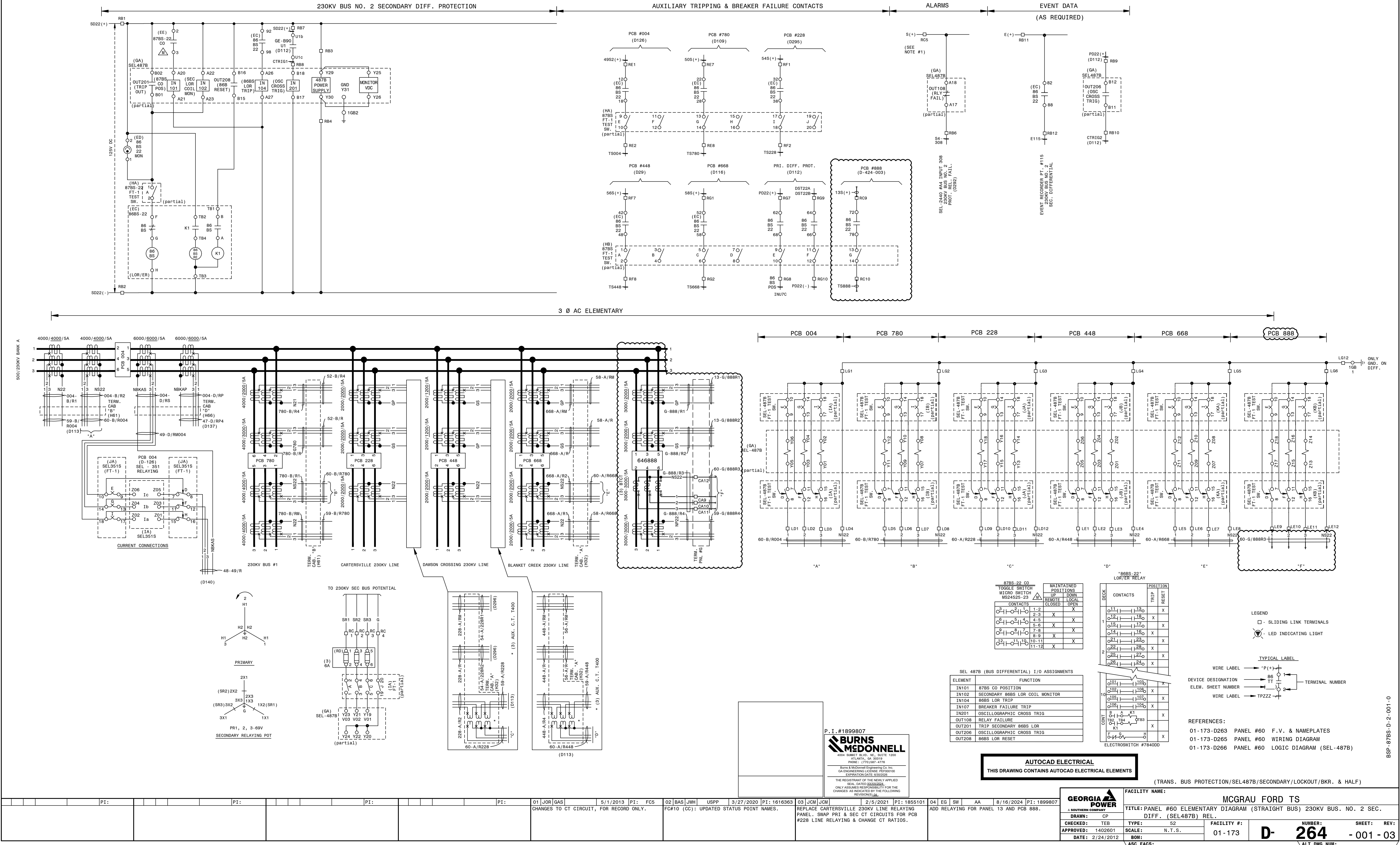
01-173-D264
01-173-D265
01-173-D266
PAN-CONST-D1
PAN-CONST-D2

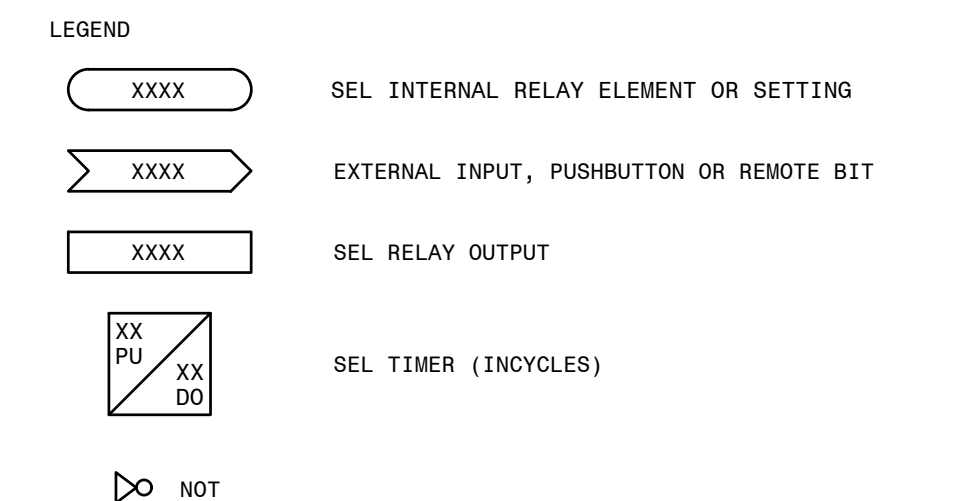
PANEL #60 ELEMENTARY DIAG.
PANEL #60 WIRING DIAGRAM
PANEL #60 LOGIC DIAGRAM (SEL-487B)
CONSTRUCTION DETAILS
CONSTRUCTION DETAILS

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

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--|-----------|---------------------|--|--|--|-------------|--|----------------|--|---------|--|--|--------------|-------------|--|--|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  | FACILITY NAME: | | | | | | | | | | MCGRAU FORD TS | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | TITLE: PANEL #60 FRONT VIEW & NAMEPLATES (6 CURR. CKT.) 230KV BUS NO. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SEC. DIFF. (SEL487) REL. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DRAWN: CP | | | | TYPE: | | | | FACILITY #: | | | | NUMBER: | | | | SHEET: REV: | | | | | | | | | | | | | | | | | | | | | | |
| | CHECKED: TEB | | | | SCALE: 1 1/2"=1'-0" | | | | 01-173 | | | | D | | | | 263 | | | | - 001 - 0 | | | | | | | | | | | | | | | | | | |
| APPROVED: 1402601 | | | | BOM: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE: 2/24/2012 | | | | ASC FACS: | | | | | | | | | | | | ALT DWG NUM: | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

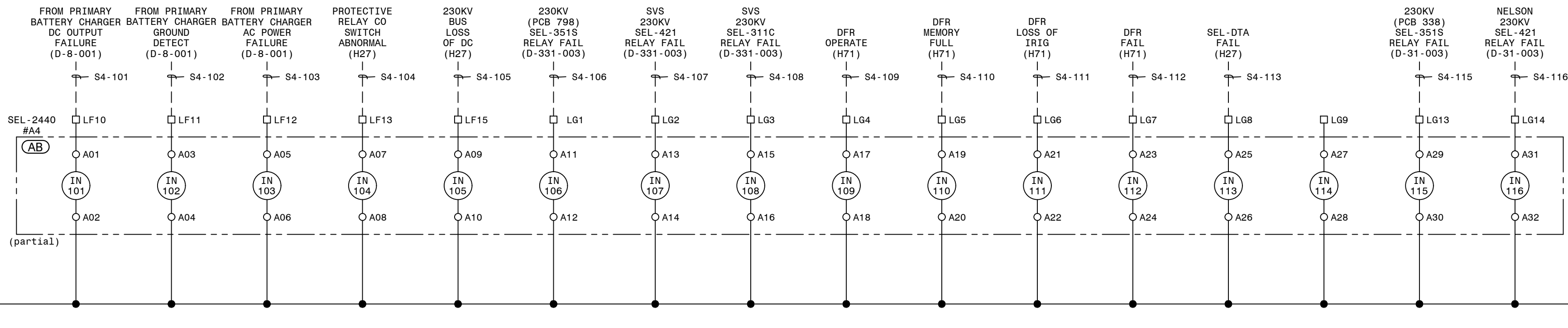




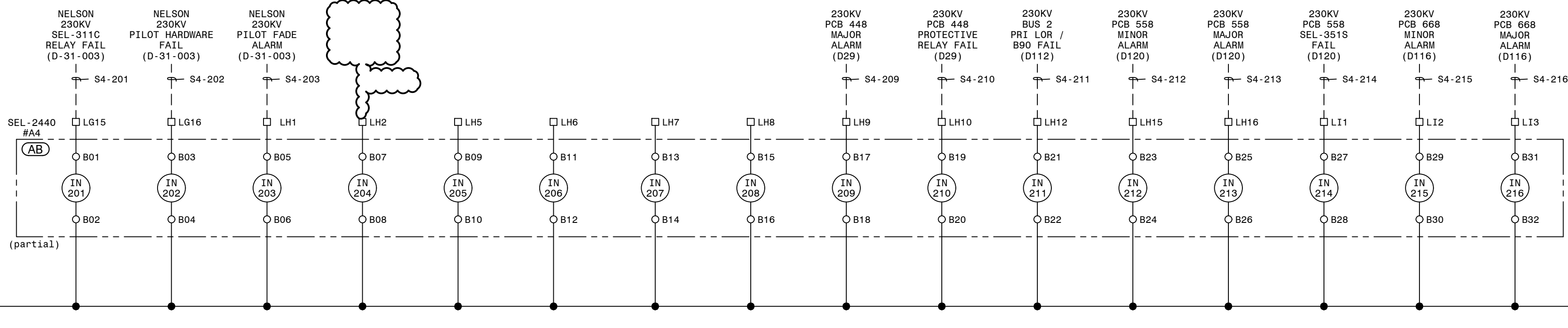
REFERENCES:
01-173-D264 PANEL #60 ELEMENTARY DIAGRAM
01-173-D265 PANEL #60 WIRING DIAGRAM

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

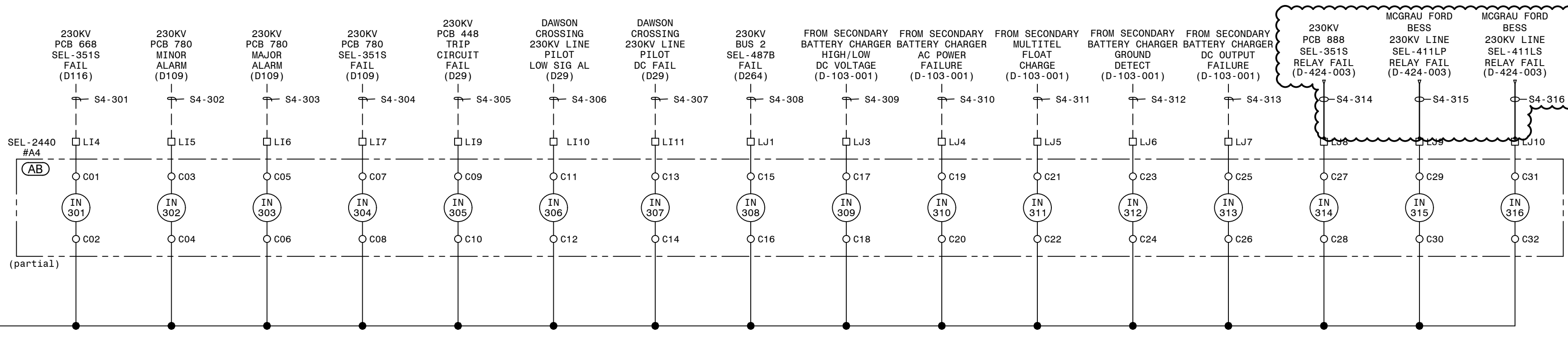
SEL-2440#A4 DIGITAL INPUTS



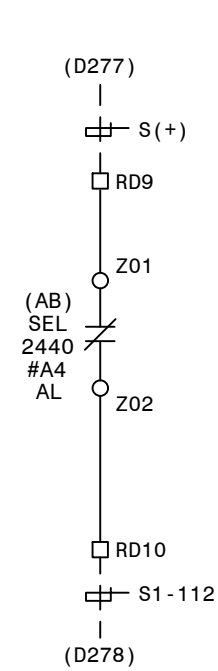
SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 DIGITAL INPUTS



SEL-2440#A4 ALARM



AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

P.I.#1899807



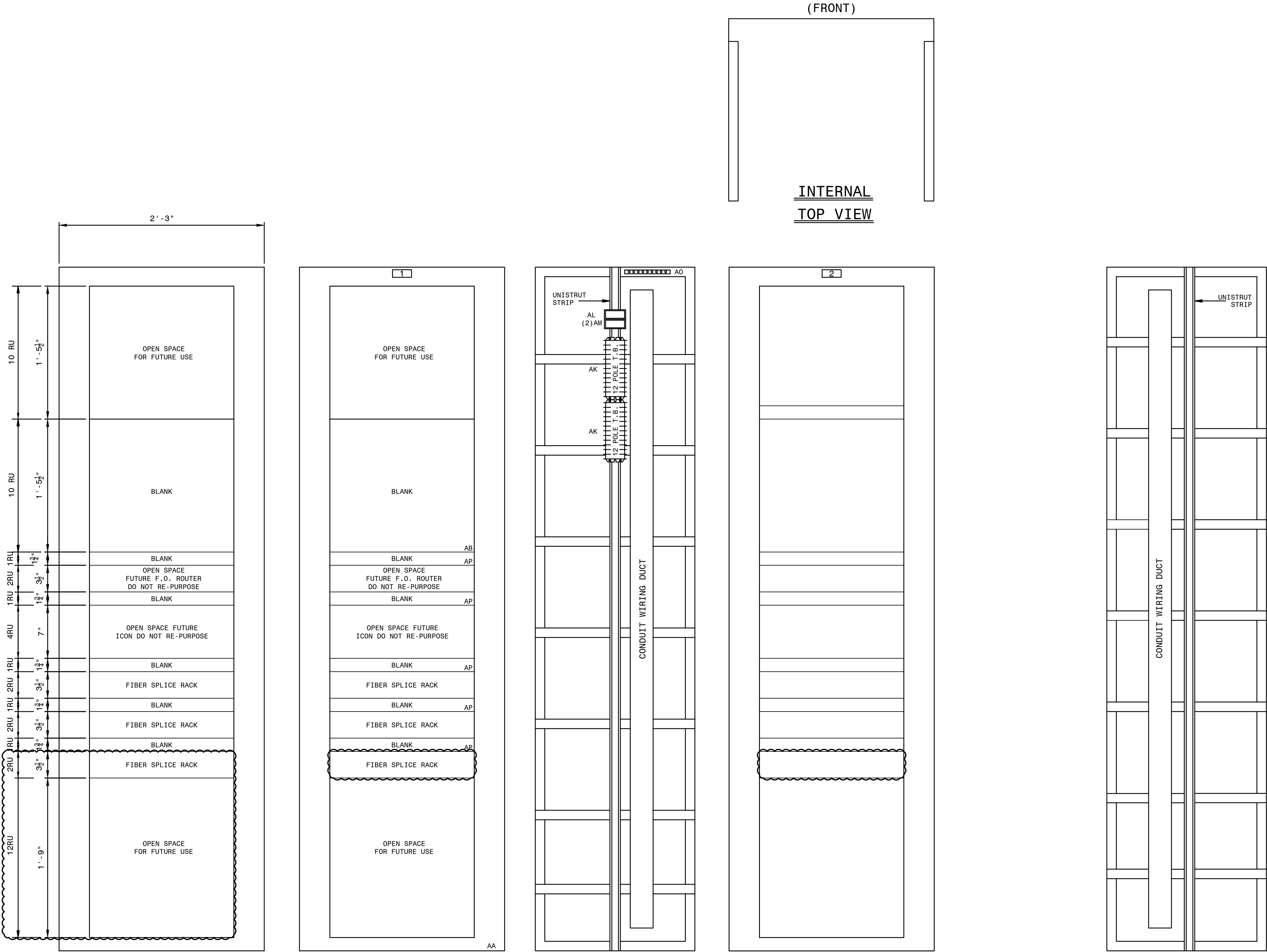
REFERENCES:

- | | |
|-------------|---|
| 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: | |

| LABEL DETAILS | | | |
|---------------|--------------|------------------------|----------------------|
| LABEL NO. | FIRST LINE | SECOND LINE | THIRD LINE |
| 1 | PANEL NO. 42 | SVS FIBER SPLICE PANEL | DWG. NO.01-173-D-330 |
| 2 | PANEL NO. 42 | SVS FIBER SPLICE PANEL | DWG. NO.01-173-D-330 |

| QTY | ITEM S | CATALOG | DESCRIPTION | REMARKS |
|-----|--------|---------|--|------------------------------------|
| 1 | AA | RHCL-I | 27IN X 90IN SWITCHBOARD PANEL (FULL RACK) WITH FRAME | DWG-PAN-CONST-D1, DWG-PAN-CONST-D2 |
| 1 | AB | RGXC-I | RACK PANEL TYPE C 10-RACK UNITS | DWG-PAN-CONST-D1 |
| 2 | AK | BJPE-I | 12 POLE SLIDING LINK TERMINAL BLOCK | STATES ELECTRIC MFG: M-25012-T |
| 1 | AL | FUPF | FUSE BLOCK, PHENOL, 2-POLE, 1-30A | |
| 2 | AM | RFWM | FUSE, CARTRIDGE, 1ELEM, NR, 250V, 6A | |
| 1 | AO | BAVD-I | COPPER NEUTRAL BAR GRD TERM, #4-#14 | BURNDY: K12P4CG1 |
| 5 | AP | RGWT-I | RACK PANEL TYPE A 1-RACK UNIT | DWG-PAN-CONST-D1 |



FRONT PANEL
(PUNCH MARKS)

FRONT PANEL
(NAMEPLATES AND
MATERIAL MARKS)

LEFT REAR

REAR PANEL
INTERNAL PANEL
REAR VIEW

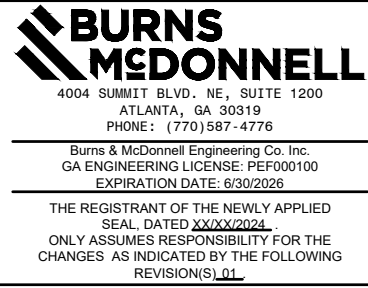
RIGHT REAR

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS


- NOTES:
- EQUIPMENT TO BE PLACED AS NEEDED.
 - FOR DATA CONNECTION, SEE COMMUNICATION DIAGRAM D-186-001.

- REFERENCES:
- | | |
|------------------|---|
| 01-173-D-330-002 | PANEL #42 WIRING DIAGRAM |
| 01-173-D-330-003 | PANEL #42 ELEMENTARY DIAGRAM |
| 01-173-D-330-004 | PANEL #42 FIBER SPLICE CONNECTIONS (SVS) |
| 01-173-D-330-005 | PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAU FORD BESS) |

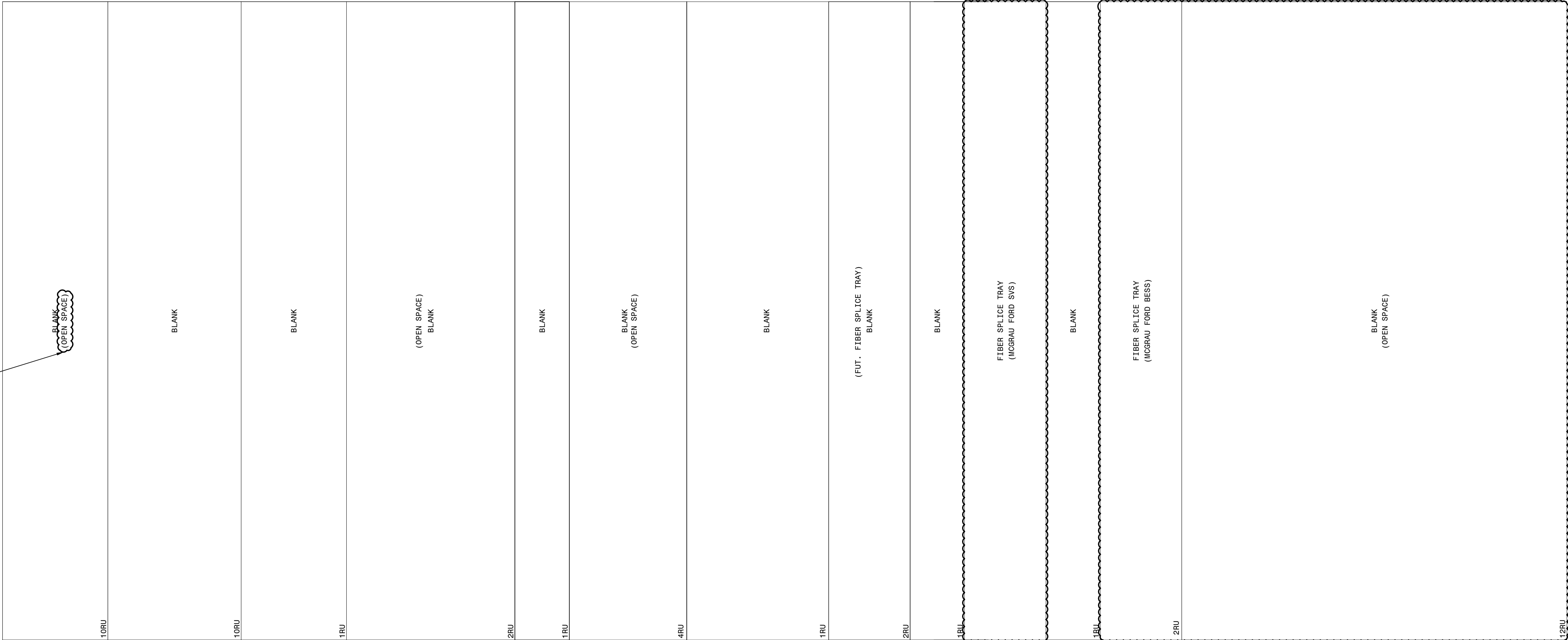
P.I.#1899807



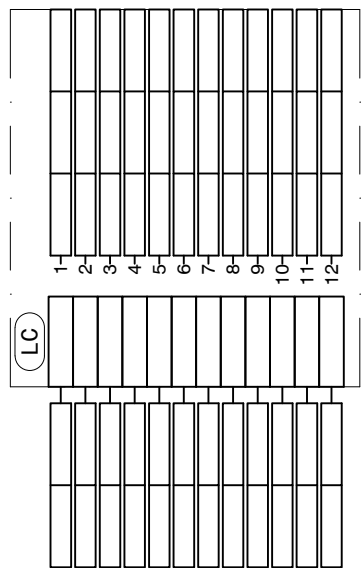
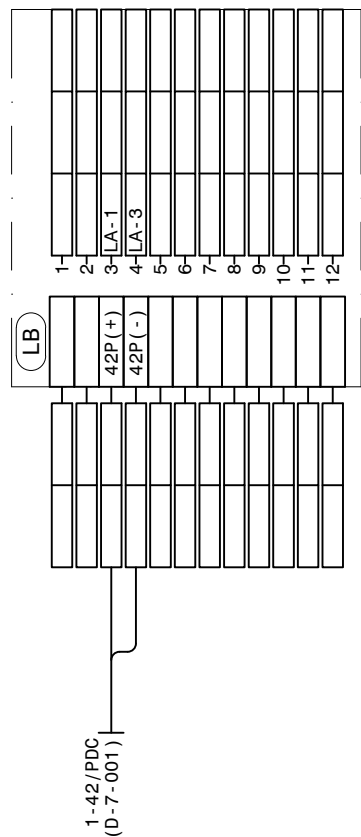
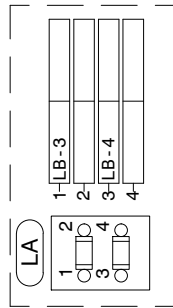
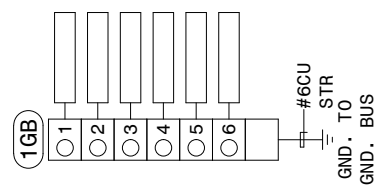
SVS FIBER (AND MCGRAU FORD BESS) INTERFACE

| | | | | | |
|---|---------------------|--|---------|---------|------|
|  A SOUTHERN COMPANY | | FACILITY NAME: MCGRAU FORD TS | | | |
| DRAWN: BPE | | TITLE: PANEL #42, FRONT VIEW & NAMEPLATES - SVS (AND MCGRAU FORD BESS) FIBER INTERFACE | | | |
| CHECKED: BPE | TYPE: FV | FACILITY #: | NUMBER: | SHEET: | REV: |
| APPROVED: 1930501 | SCALE: 1 1/2"=1'-0" | 01-173 | D-330 | - 001 - | 00 |
| DATE: 05/31/2023 | BOM: | | | | |
| ASC FACs: | | ALT DWG NUM: | | | |

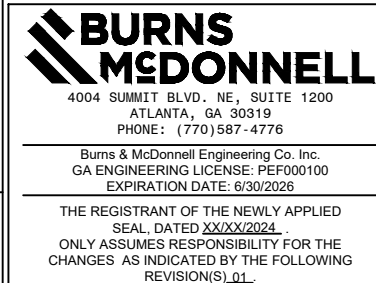
FOR REFERENCE



FOR REFERENCE



P.I.#1899807




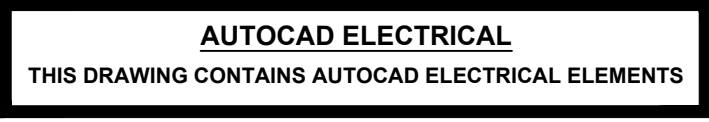
AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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

| | | | | | |
|--|------------|---|--------------------------|----------------------------------|--|
|  GEORGIA POWER <small>A SOUTHERN COMPANY</small> | | 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 dashed line on the bottom terminal; 'WIRE LABEL' pointing to 'TPZZZ' on the bottom terminal; and '1' and '2' next to the terminals, both pointing to the label 'TERMINAL NUMBER'.

WIRE LABEL → P(+)

86

TT

ELEM. SHEET NUMBER →

WIRE LABEL → TPZZZ

1


2

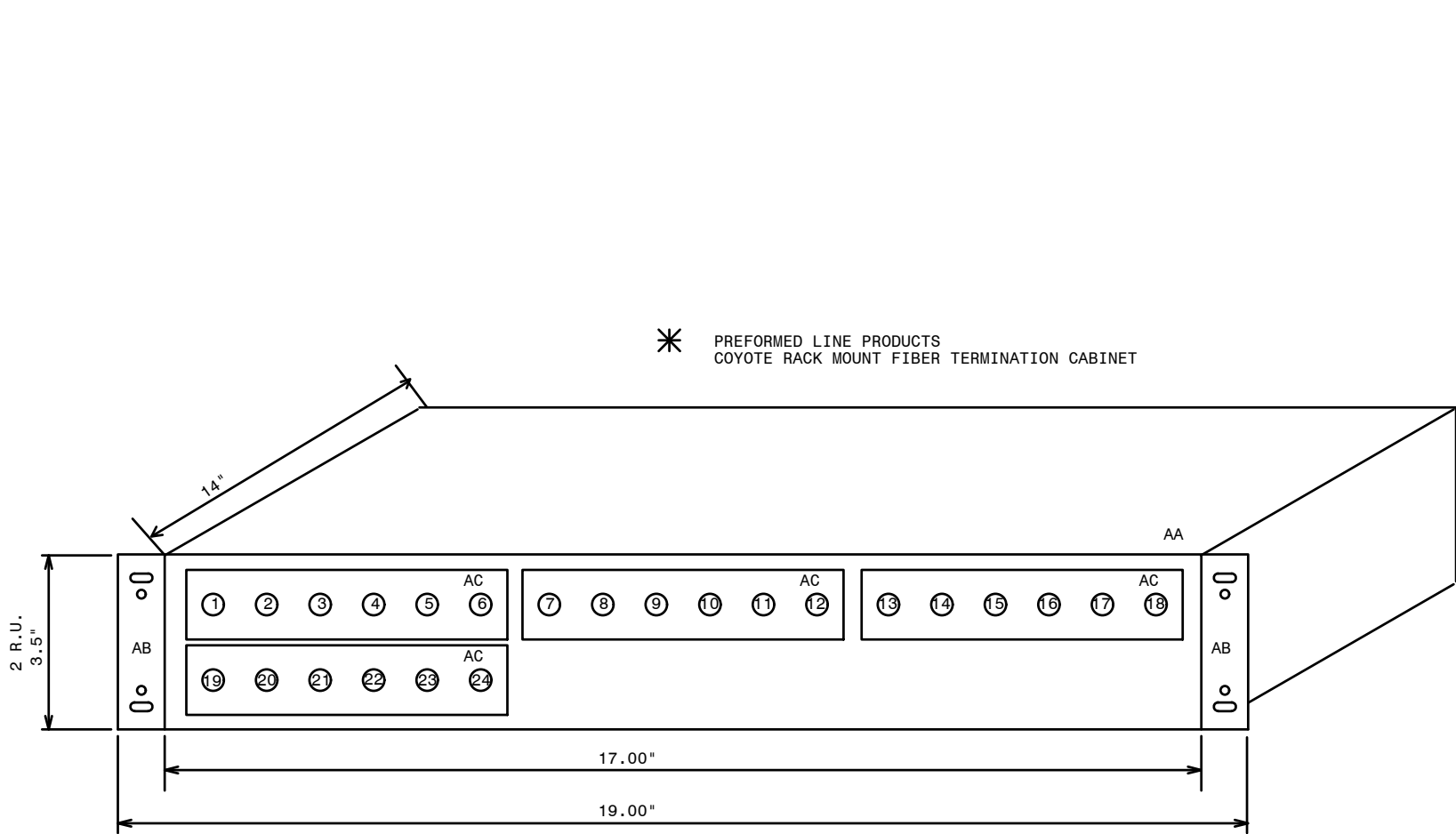
TERMINAL NUMBER

REFERENCES:

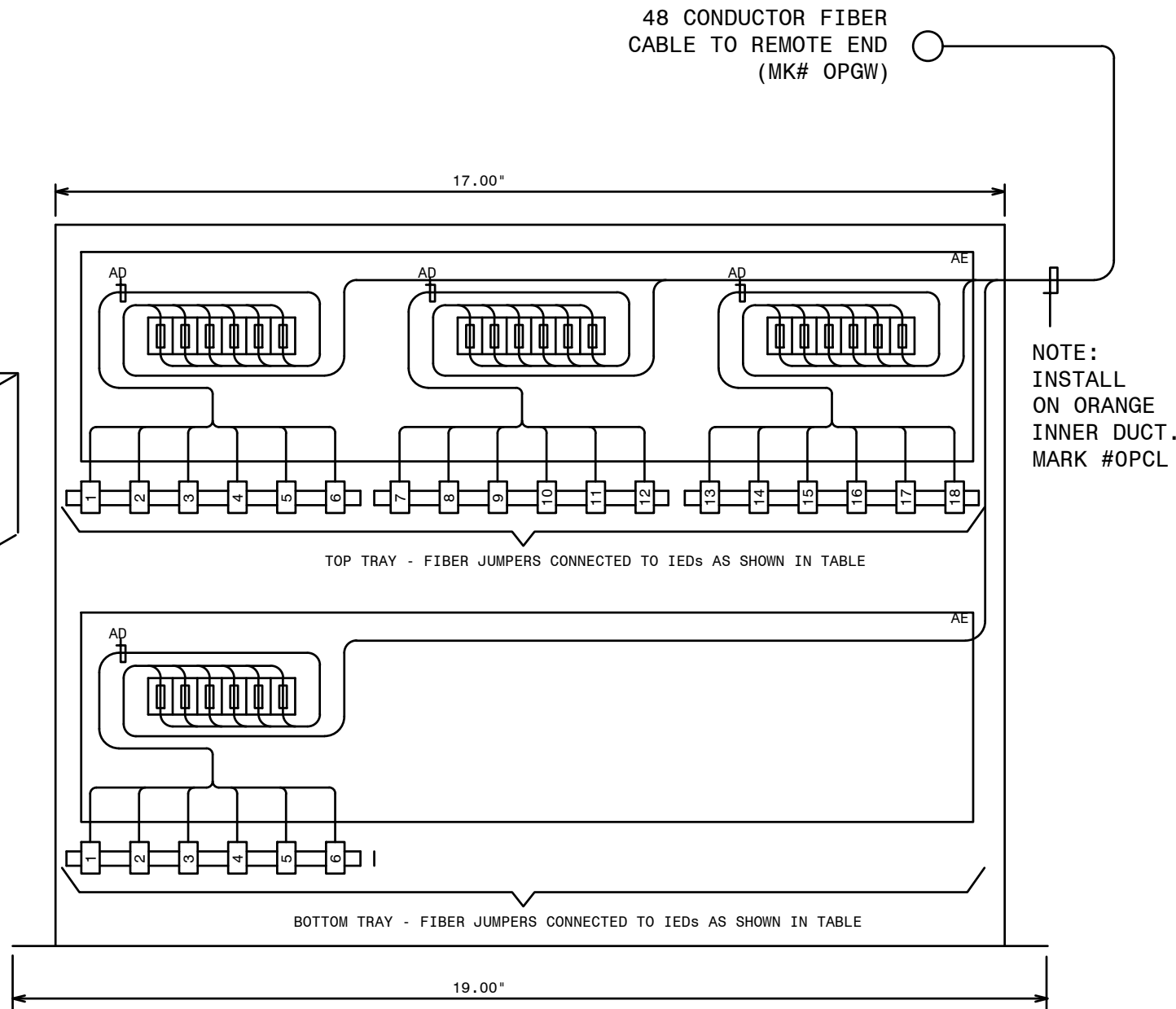
| | |
|------------------|---|
| 01-173-D-330-001 | PANEL #42 FRONT VIEW & NAMEPLATES |
| 01-173-D-330-002 | PANEL #42 WIRING DIAGRAM |
| 01-173-D-330-004 | PANEL #42 FIBER SPLICE CONNECTIONS (SVS) |
| 01-173-D-330-005 | PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAU FORD BESS) |

SVS (AND MCGRAU FORD BESS FIBER) INTERFACE

| | | | | | | | | | | | | | |
|---|--|--|---------------|--|-------------|--|----|--|----------------|--|------------------------|--|--------------|
| <div> GEORGIA POWER <small>A SOUTHERN COMPANY</small></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: REV: - 003 - 00 | | |
| | CHECKED: BPE | | SCALE: N.T.S. | | 01 - 173 | | | | | | | | |
| | APPROVED: 1930501 | | BOM: | | | | | | | | | | |
| | DATE: 05/31/2023 | | ASC FACS: | | | | | | | | | | ALT DWG NUM: |



FRONT VIEW CABINETS 1, 2



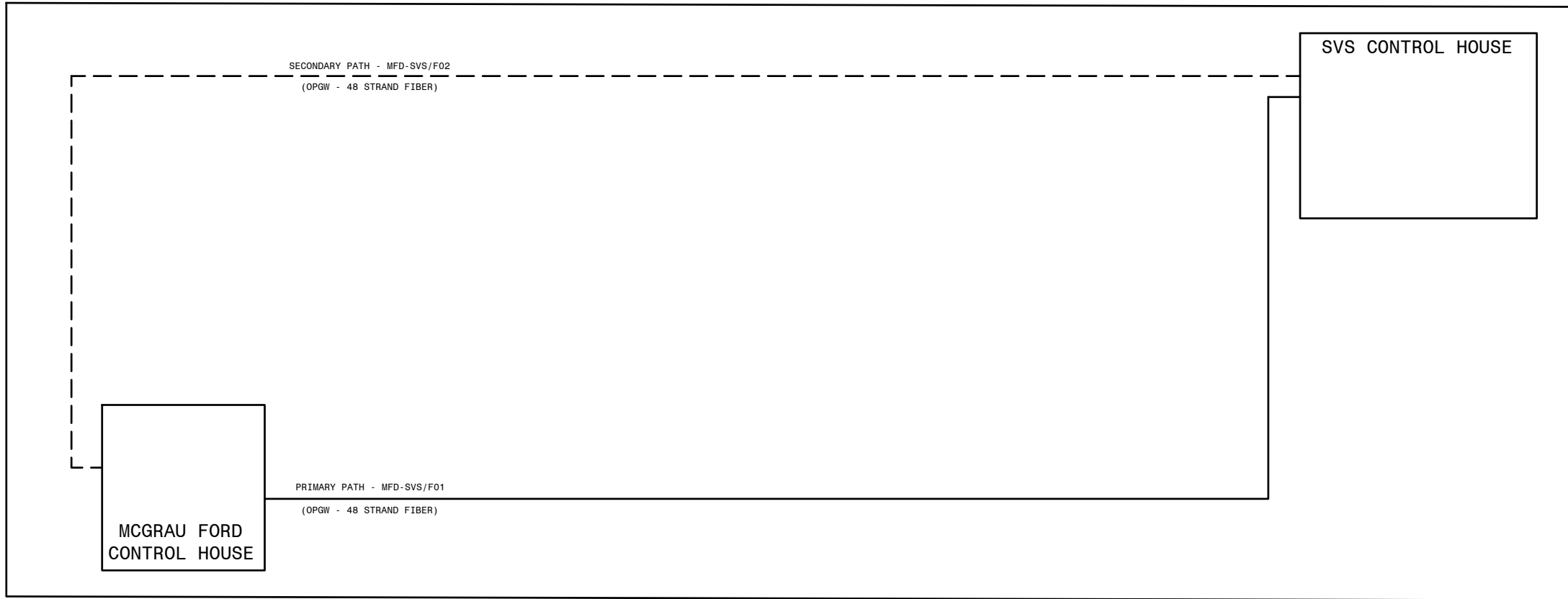
TOP VIEW CABINETS 1, 2

(SEE NOTE 1)

TABLE A - FIBER PATCH PANEL 1 MCGRAU FORD TS CONTROL HOUSE, PROTECTION TABLE

| 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 | | MCGRAU FORD - SVS (SECONDARY) | T0-43/F02 | SEL-311C (SECONDARY) | SEL-487E (SECONDARY-SVS) | | YELLOW | ORANGE |
| 10 | | | | | | | PURPLE | |
| 11 | | | | | | | PINK | |
| 12 | | | | | | | CYAN | |
| 13 | SEL-311C-TX | | | | | | BLUE | |
| 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 | |

MCGRAU FORD FIBER PATH (OPGW) ROUTING DETAIL

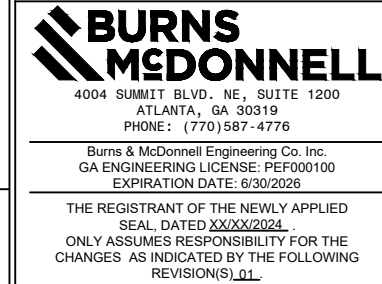


✱

| QTY | ITEM | MARK # | CMDTY # | DESCRIPTION | REMARKS |
|-----|------|--------|---------|---|------------------------------------|
| 2 | AA | OPCF | J-19763 | PLP RDC6 RACK MOUNT CABINET ALLOWS UP TO 36 FIBER SPLICES AND CONNECTIONS | PLP MODEL # RDC6 |
| 4 | AB | OPCJ | J-19773 | MOUNTING BRACKET ASSEMBLY FOR MOUNTING RDC6 IN 19" RACK MOUNT PANEL | PLP MODEL # BKT2U19A |
| 8 | AC | | | LC CONNECTORS - TO BE SELECTED AND PLACED BY IT GROUP | LC CONNECTORS |
| 8 | AD | OPCH | J-19770 | FIBER PIGTAIL - MIC CABLE 6 FIBER, 2 METER ST-SM | PROVIDES SM-ST TERM. FOR 6 FIBERS. |
| 4 | 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) | |
| | 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) | |
| 4 | AO | OPDP | J-19864 | SINGLE MODE DUPLEX JUMPER ST TO ST (20 METER) | |
| 1 | AP | OPCO | J-19776 | PLP RDC3 RACK MOUNT CABINET ALLOWS UP TO 18 FIBER SPLICES AND CONNECTIONS | PLP MODEL # RDC3 |
| | | OPAZ | | | |

✱ 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 AG/DC ELEMENTARY
01-173-D-330-005 PANEL #42 FIBER SPLICE CONNECTIONS (MCGRAU FORD BESS)

SVS FIBER INTERFACE


| | | | |
|--|------------------|----------------------------------|------------------|
| GEORGIA POWER A SOUTHERN COMPANY | | 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 | 1930501 |
| APPROVED: 1930501 | DATE: 05/31/2023 | DATE: 05/31/2023 | DATE: 05/31/2023 |
| ASC FACIS: | | ALT DWG NUM: | |



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.

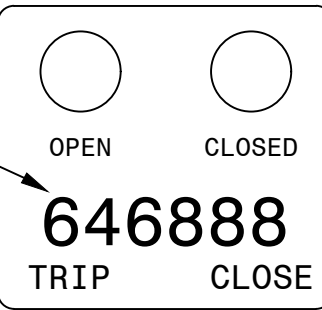
| | |
|--------------------|--|
| REFERENCES: | |
| D-330-001 | PANEL #42 FRONT VIEW AND NAMEPLATES |
| D-330-002 | PANEL #42 WIRING DIAGRAM |
| D-330-003 | PANEL #42 ELEMENTARY DIAGRAM |
| D-330-004 | PANEL #42 FIBER SPLICE CONNECTIONS (SVS) |

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/BNCD | | SCALE: WD | | FACILITY #: | | NUMBER: | |
| | CHECKED: SW/BNCD | | SCALE: N.T.S. | | 01-173 | | D-330 | |
| | APPROVED: PT#1899807 | | BOM: | | | | SHEET: REV: - 005 -- A | |
| DATE: 9/23/2024 | | ASC FACS: | | ALT DWG NUM: | | | | |

| 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 |

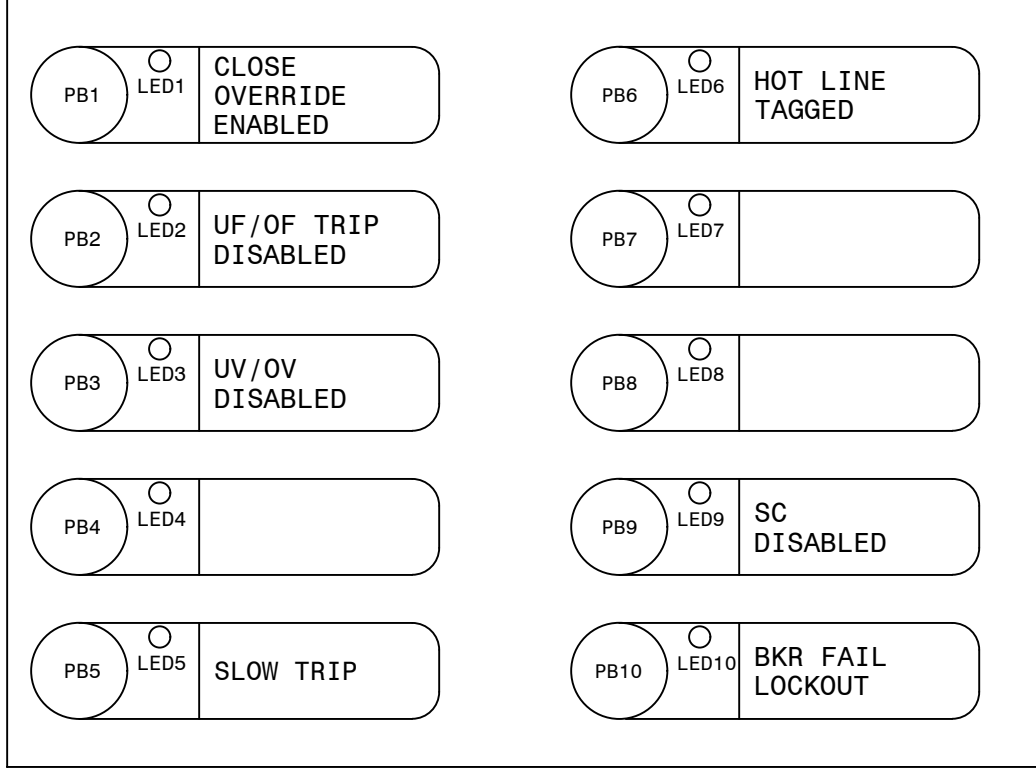
DETAIL A2
(PCB 888 351S7X
CONFIGURABLE LABELS)



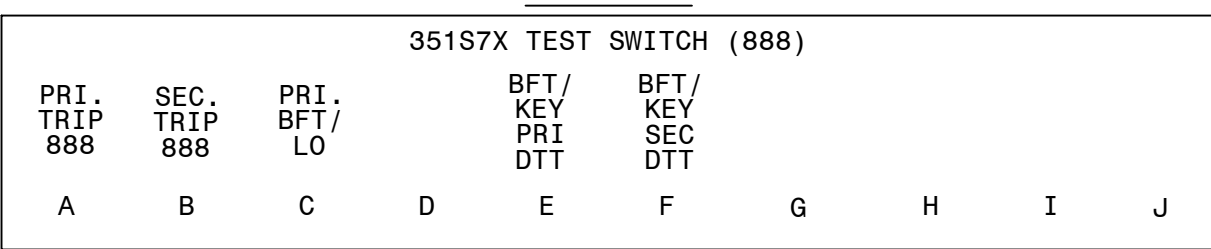
(36PT FONT)

| 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 |

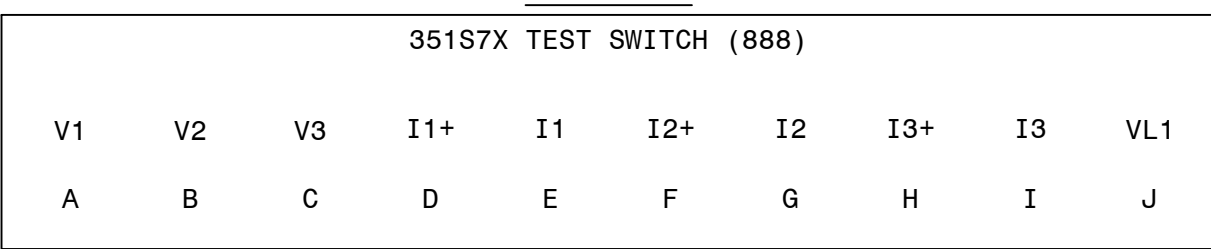
DETAIL A
(351S7X CONFIGURABLE LABELS)



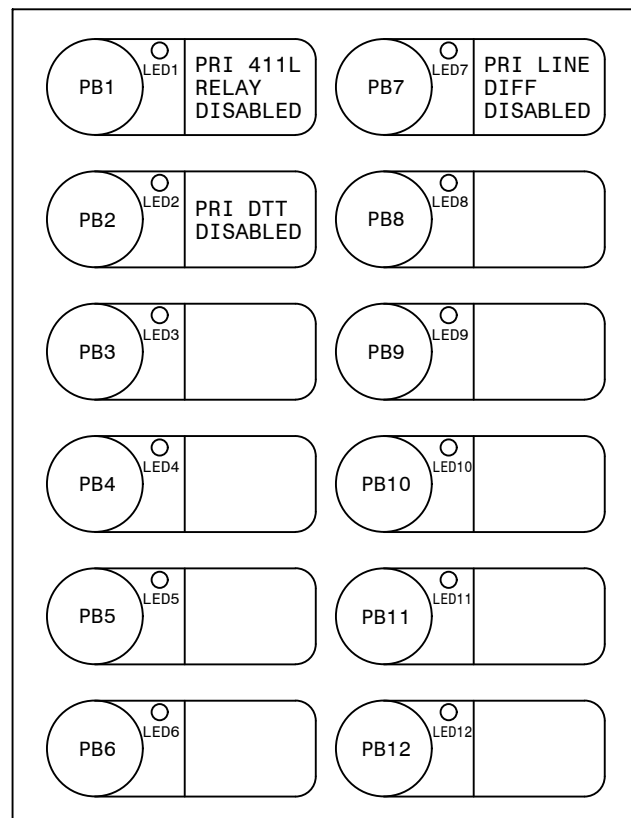
DETAIL B



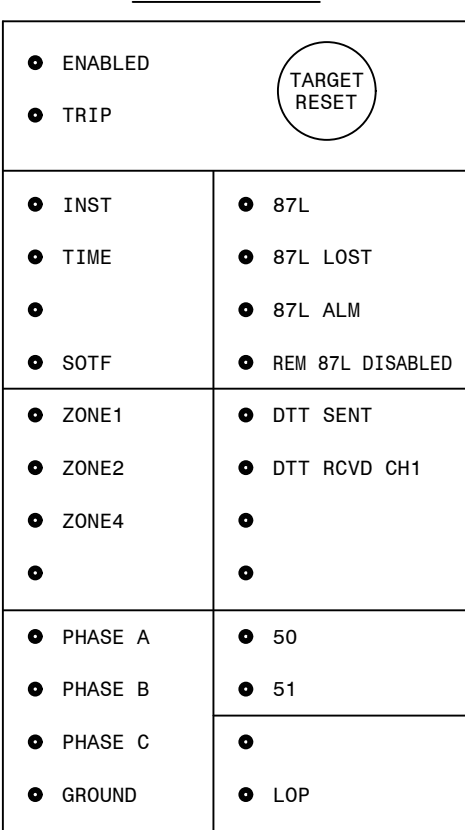
DETAIL C



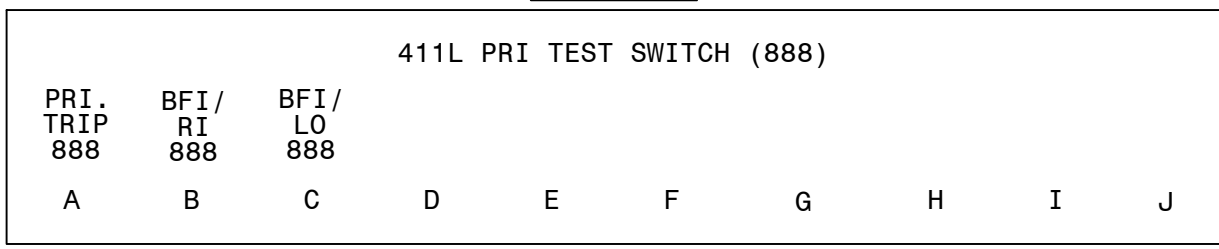
DETAIL D
(411L PRI CONFIGURABLE LABELS)



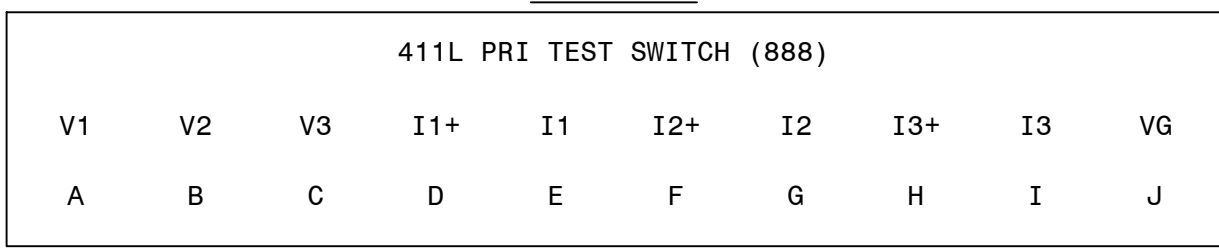
DETAIL D1



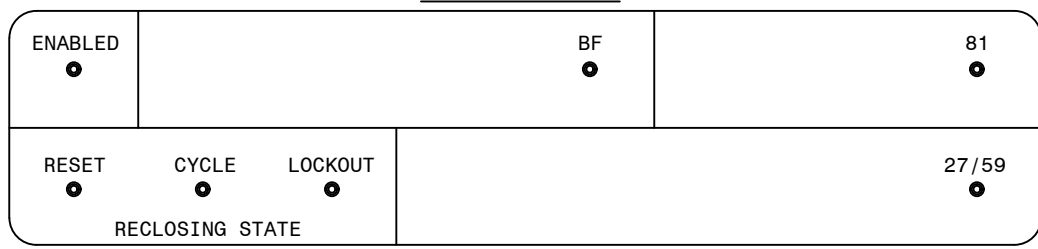
DETAIL E



DETAIL F

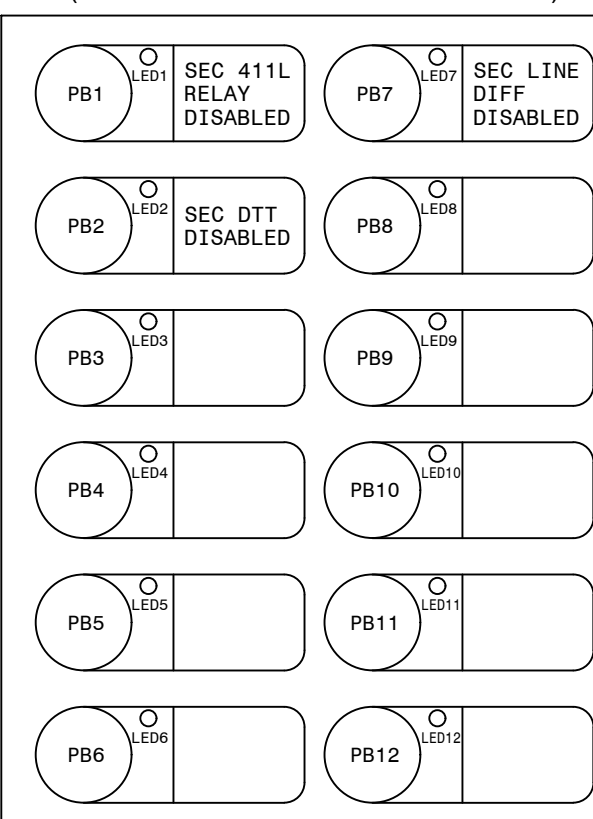


DETAIL A1

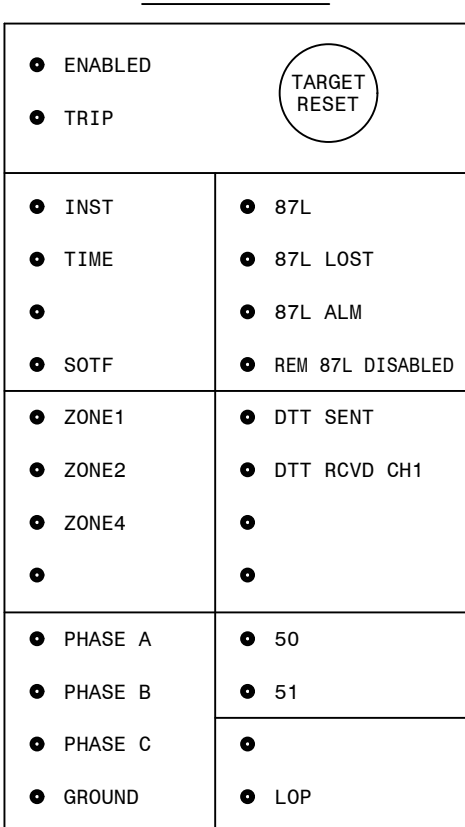


DETAIL G

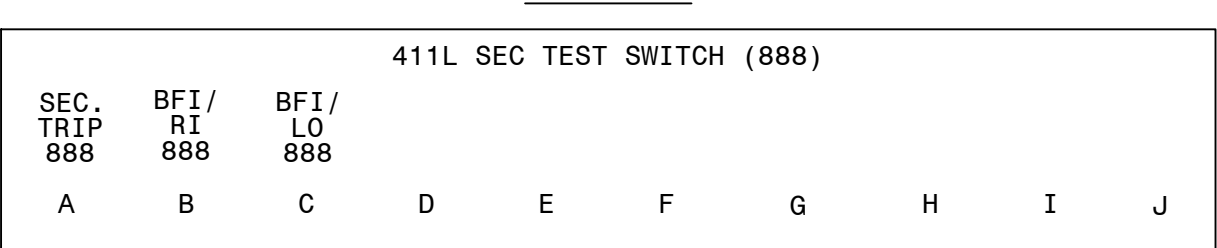
(411L SEC CONFIGURABLE LABELS)



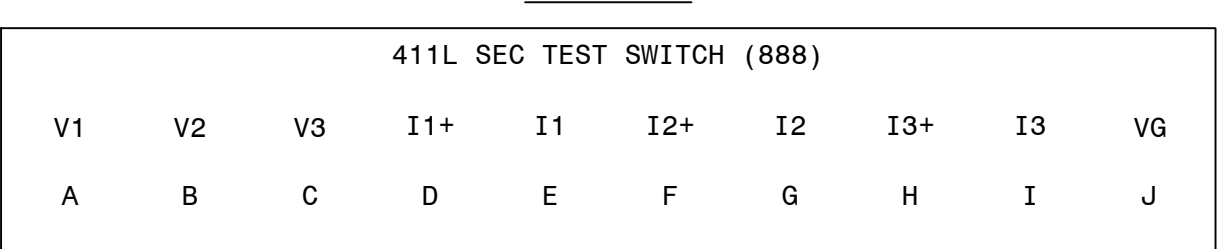
DETAIL G1



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:

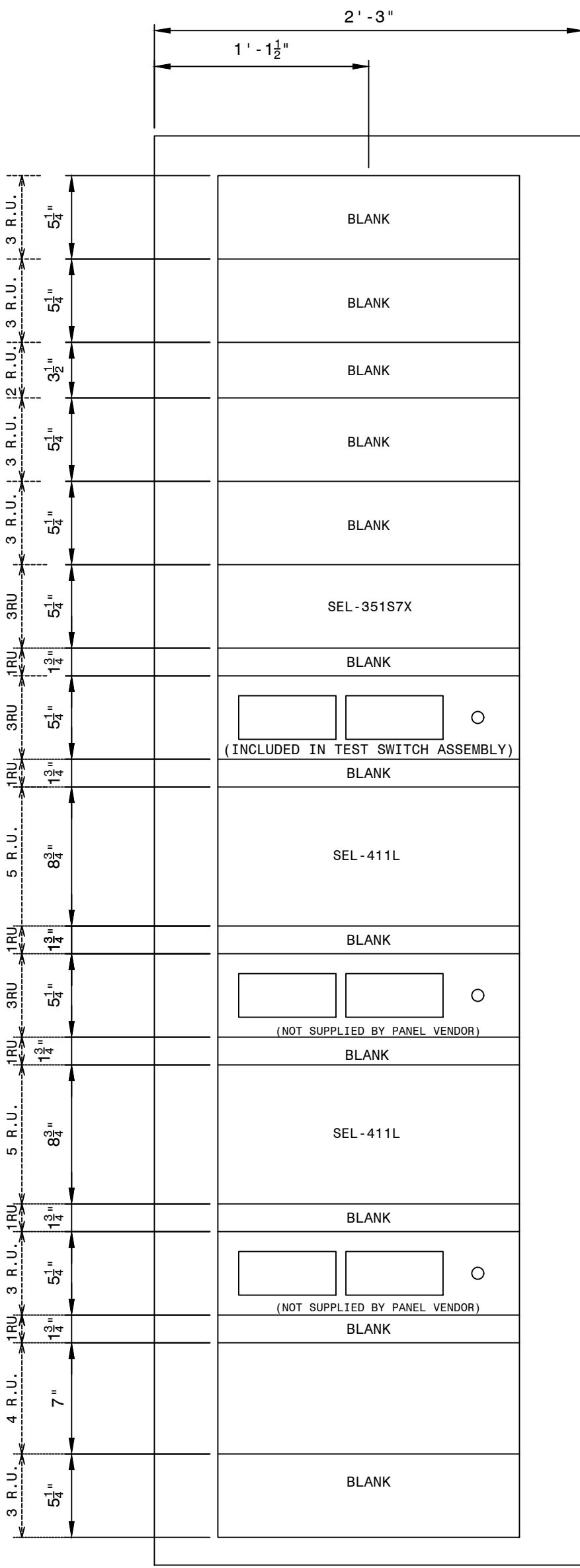
- 1. SLIDING LINKS TO OPEN TOWARD INTERNAL WIRING SIDE.

AUTOCAD ELECTRICAL

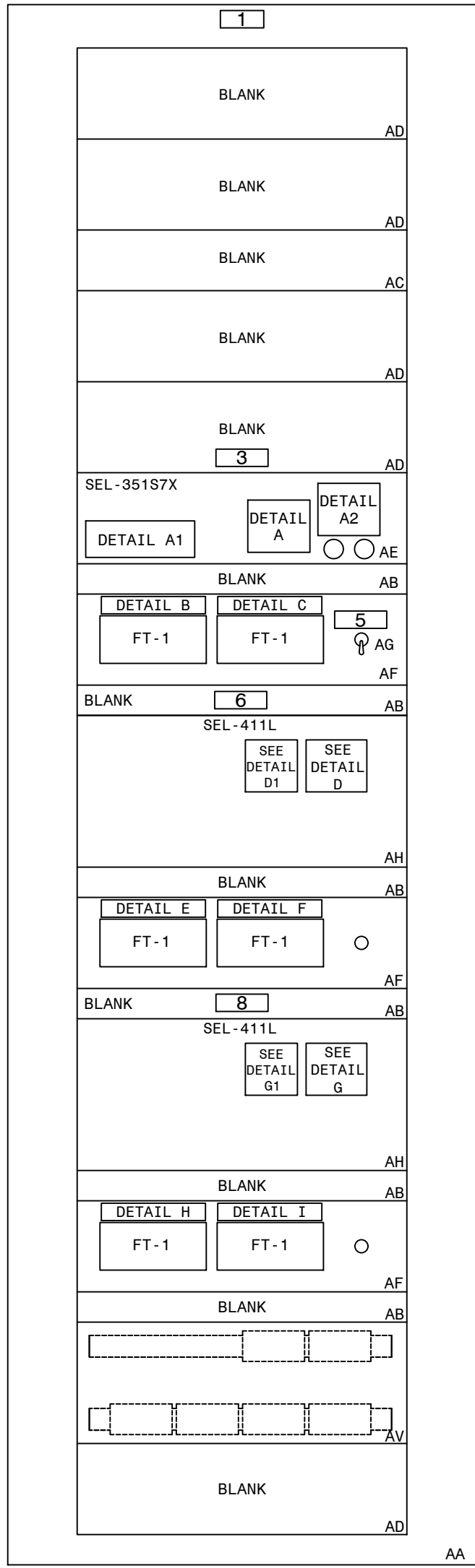
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

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

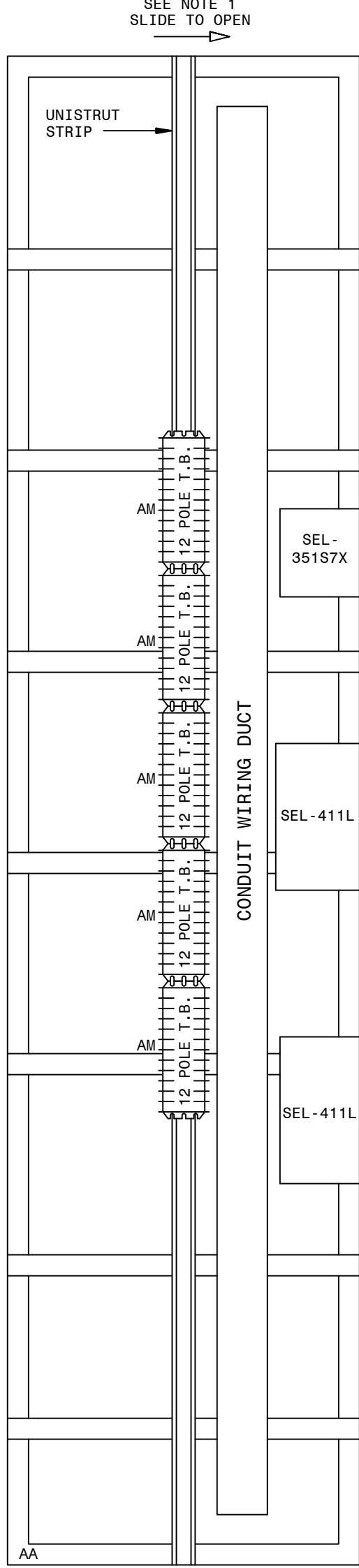
| | | | |
|-------------------------------------|--|---|--|
| GEORGIA POWER A SOUTHERN COMPANY | | FACILITY NAME: MCGRAU FORD TS | |
| DRAWN: EG/BHCD | | TITLE: PANEL NO.13, FRONT VIEW - MC. FORD BESS 230KV LINE SEL411L (PRI-FIB LINE DIFF/DIST.), SEL411L (SEC-FIB LINE DIFF/DIST.), SEL351S (BF/RCLS) |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



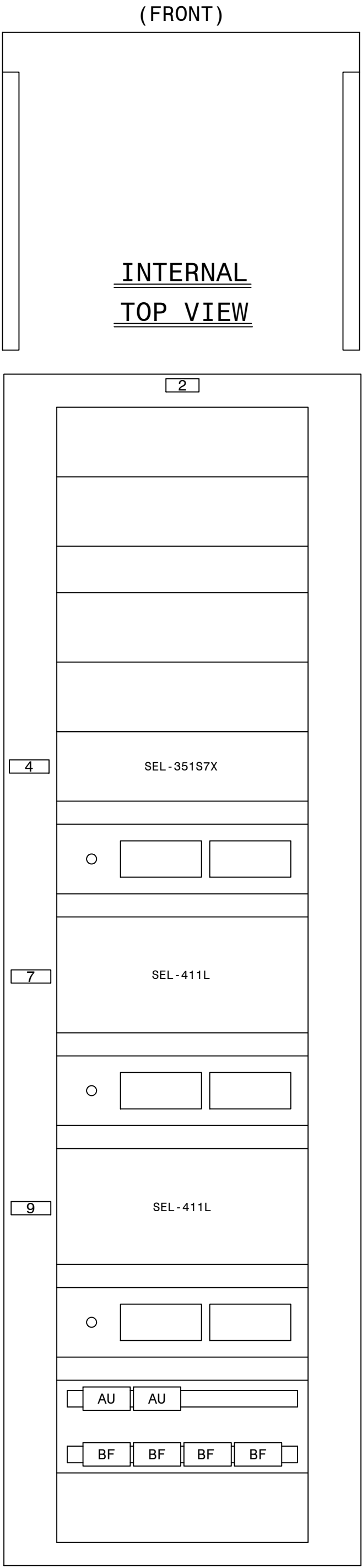
FRONT PANEL
(PUNCH MARKS)



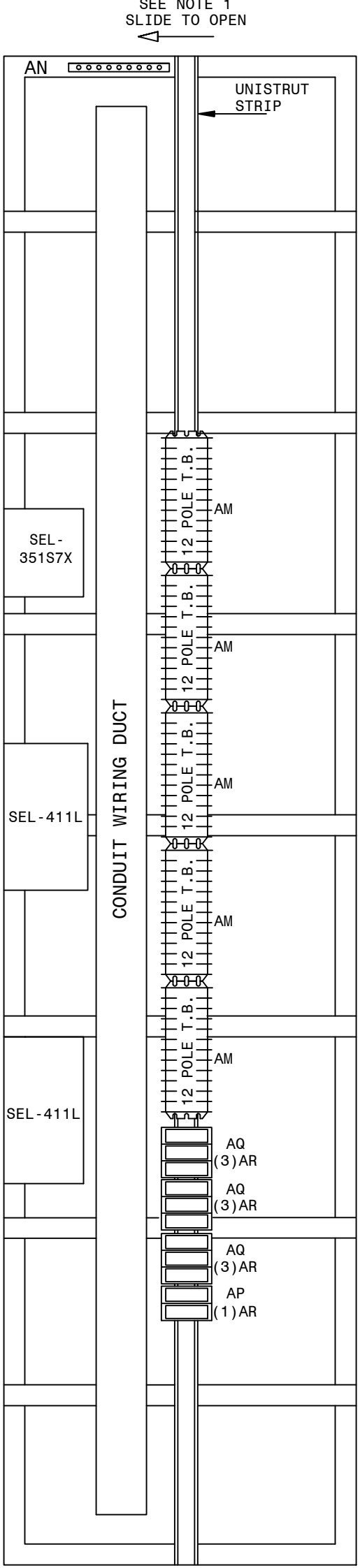
FRONT PANEL
(NAMEPLATES AND
MATERIAL MARKS)



LEFT REAR

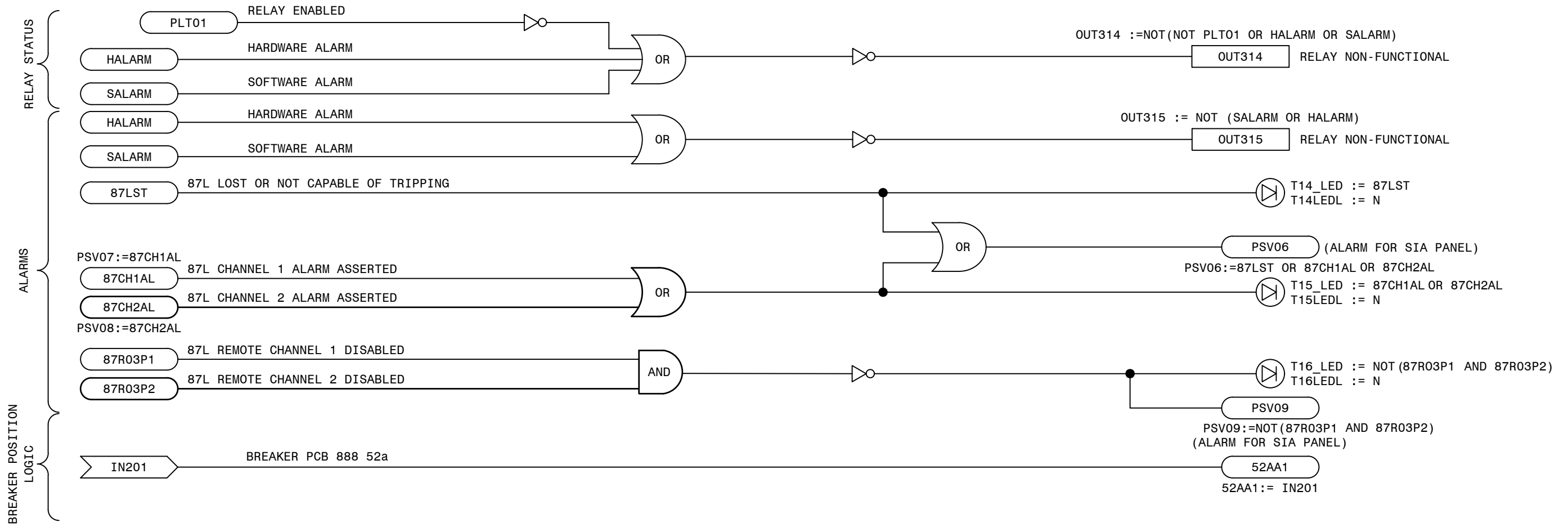
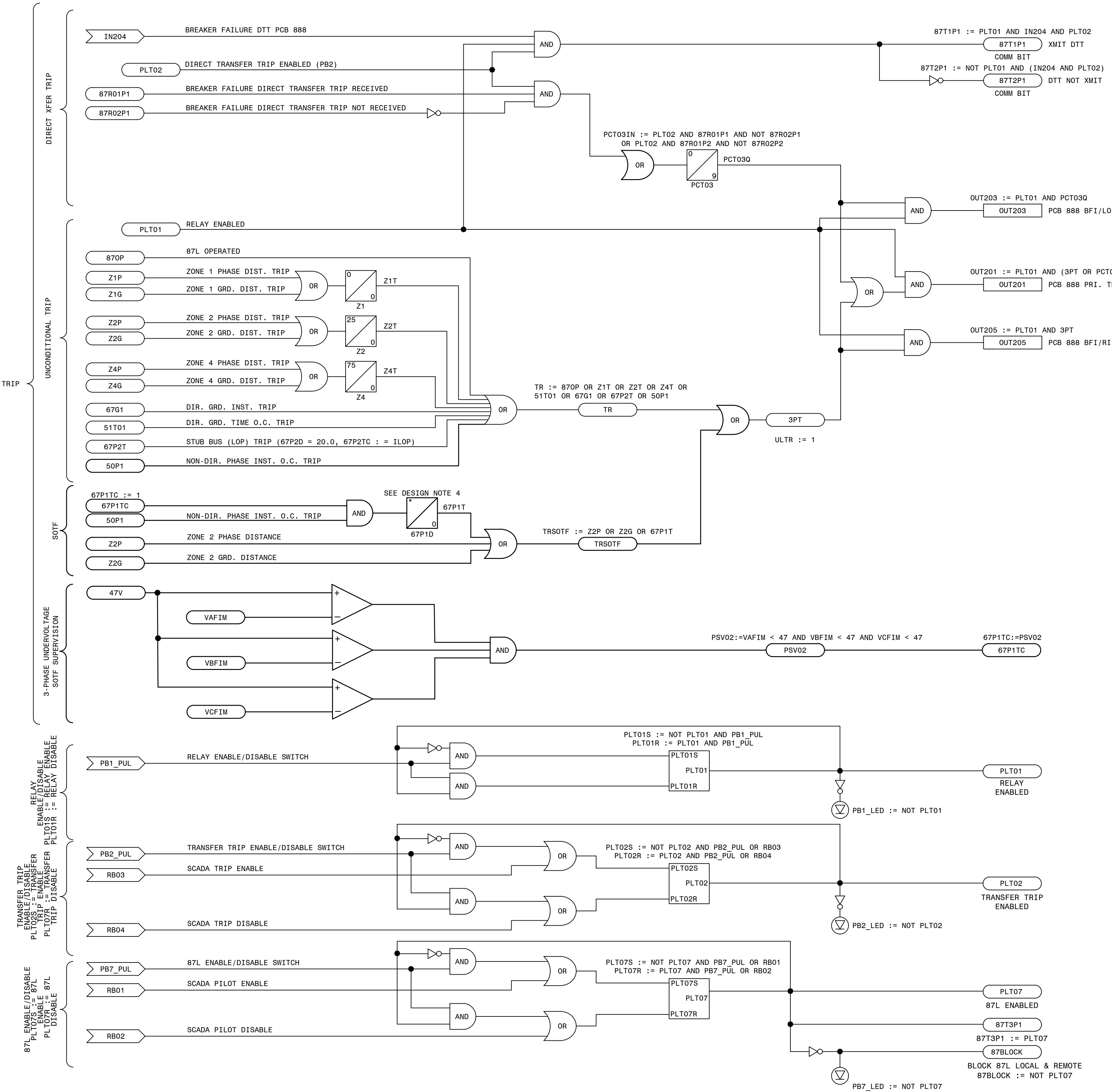


REAR PANEL
(INTERNAL PANEL,
REAR VIEW)



RIGHT REAR

LNP-SELPR-D-32-001-06



- 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)

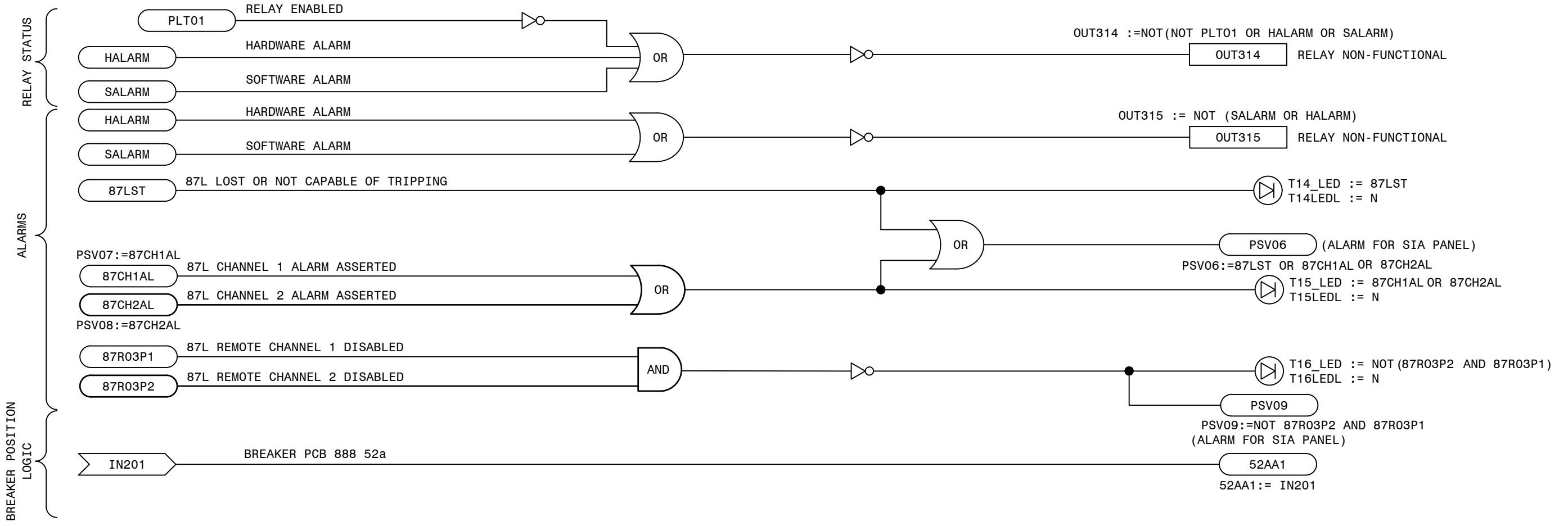
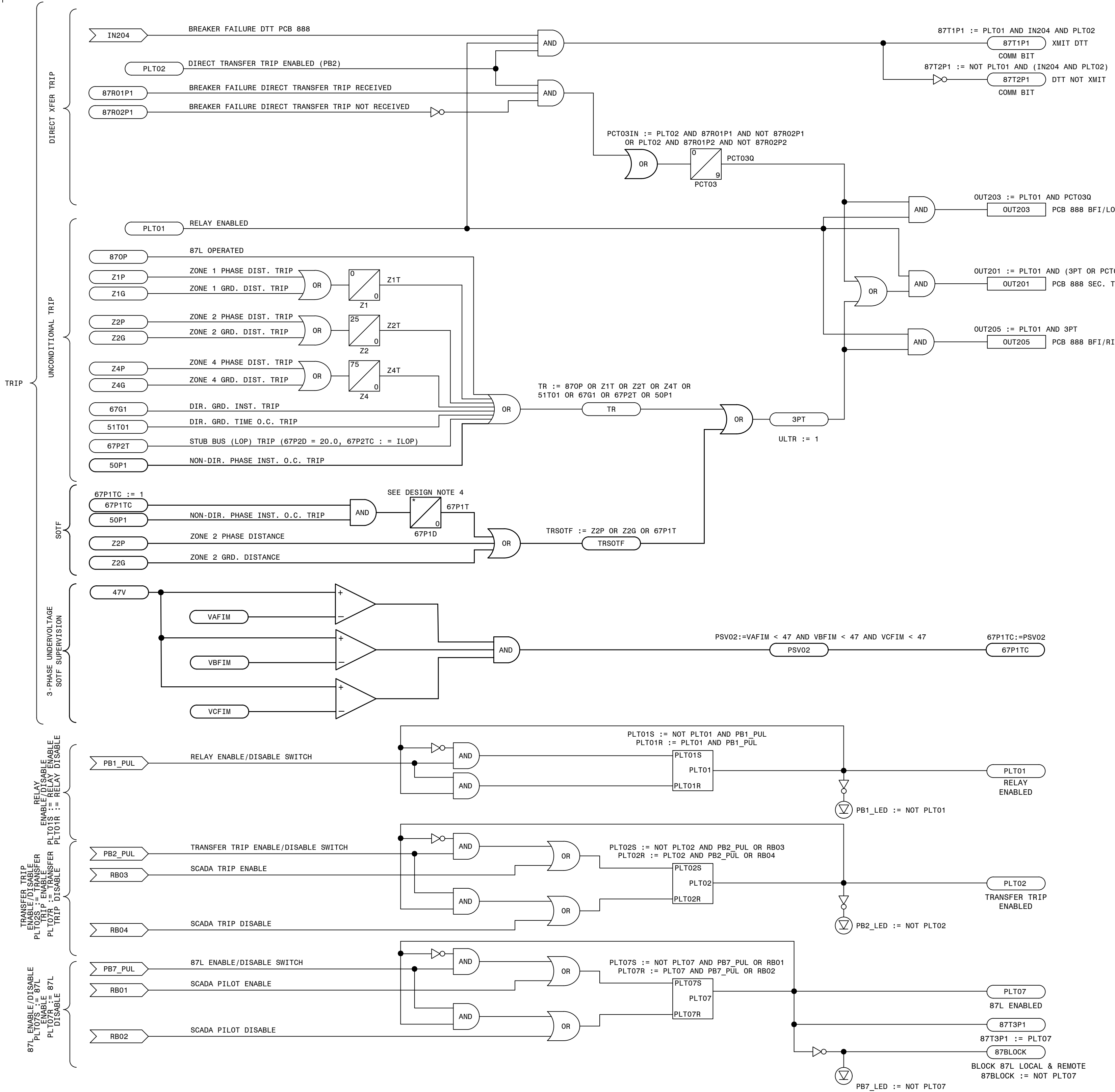
- REFERENCES:
- D-424-001 PANEL 13 FRONT VIEW AND NAMEPLATES
 - D-424-002 PANEL 13 WIRING DIAGRAM
 - D-424-003 PANEL 13 DC ELEMENTARY DIAGRAM
 - D-424-004 PANEL 13 AC ELEMENTARY DIAGRAM
 - D-424-006 PANEL 13 LOGIC DIAGRAM (411L SEC)
 - D-424-007 PANEL 13 LOGIC DIAGRAM (351S7X BF/RCLS)

- 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

| | | | |
|------------------------|--|---|--|
| GEORGIA SOUTHERN POWER | | FACILITY NAME: MCGR AU FORD TS | |
| DRAWN: EG/BMCD | | 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 | |
| APPROVED: PI#1899007 | | SCALE: N.T.S. | |
| DATE: 7/31/2024 | | FACILITY #: 01-173 | |
| BOM: | | NUMBER: 424 | |
| ASC FACS: | | SHEET: REV: D-005 -- .A | |
| | | 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: 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:

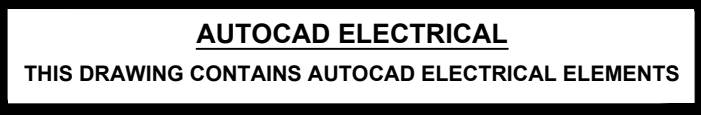
THE FOLLOWING LIST PROVIDES ALTERNATE LOGIC EQUATIONS IF ELEMENT ALIASES ARE NOT USED.

- 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/BMCD | | TITLE: PANEL NO.13, LOGIC DIAGRAM - MCGRAY FORD BESS 230KV LINE SEL411L (SEG-FIB. LINE DIFF/DIST.), STRAIGHT BUS | |
| CHECKED: SW/BMCD | | TYPE: 52L | |
| APPROVED: PI#1899807 | | SCALE: N.T.S. | |
| DATE: 7/31/2024 | | FACILITY #: 01-173 | |
| BOM: | | NUMBER: 424 | |
| ASC FACS: | | SHEET: REV: 006 -- .A | |
| | | ALT DWG NUM: | |




P. I. #1899807

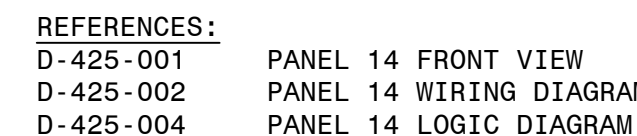
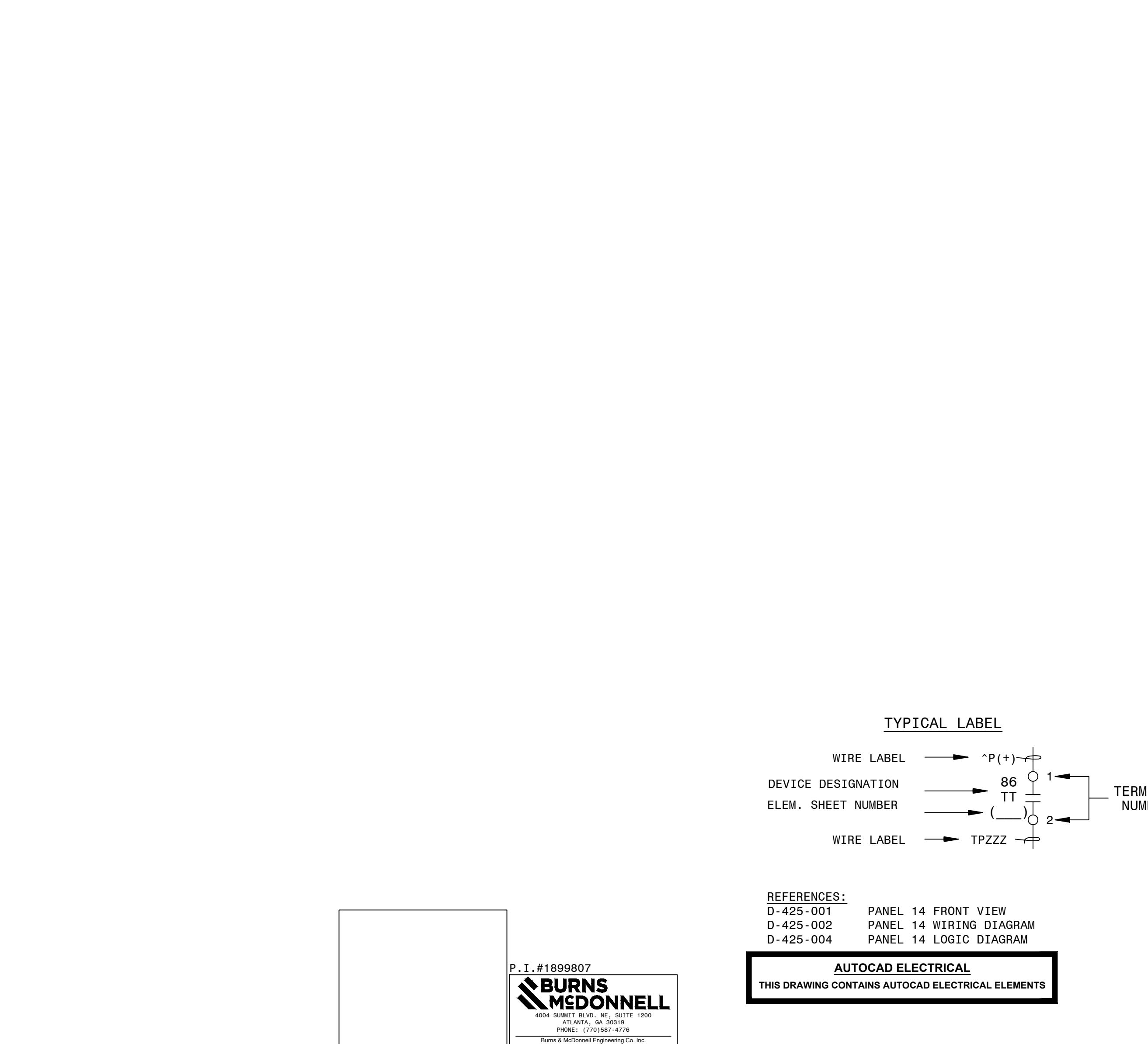
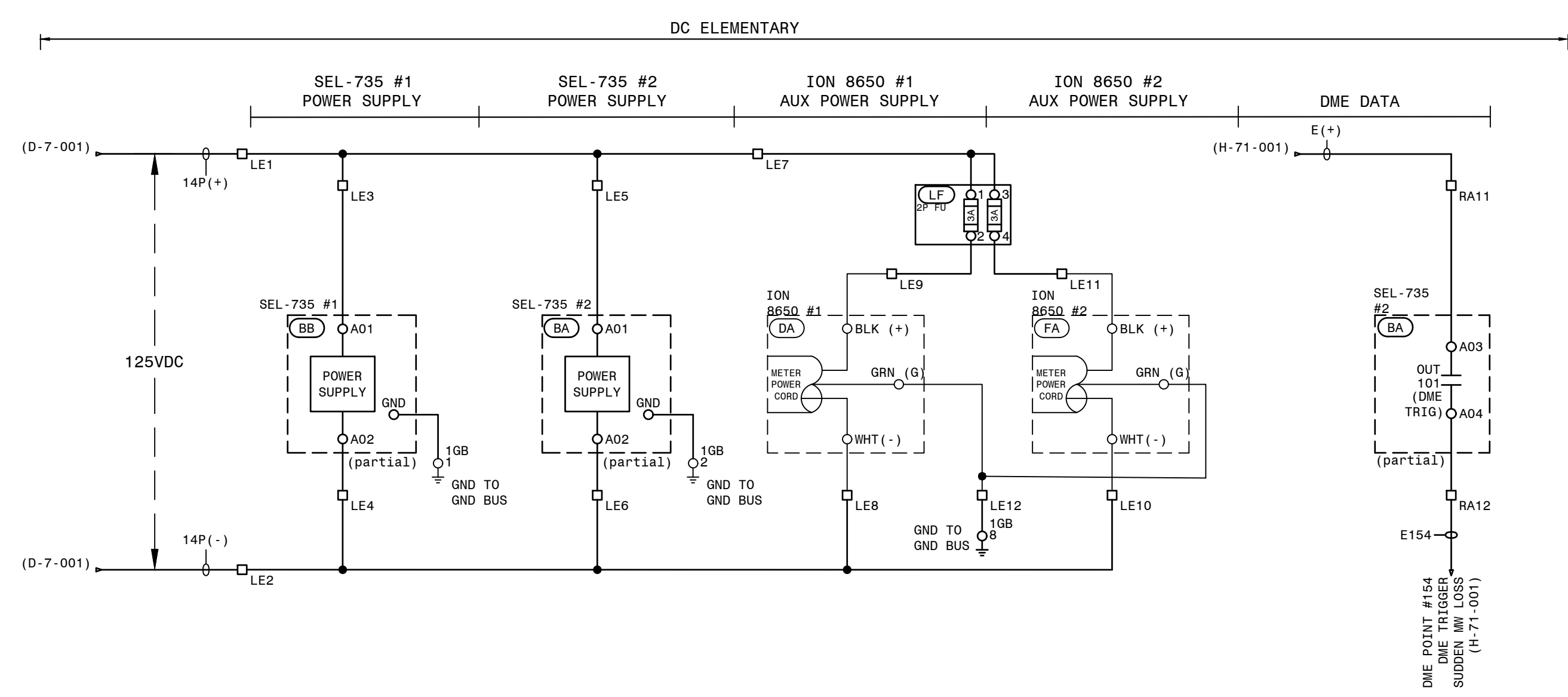
**BURNS
MCDONNELL**

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

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

THE REGISTRANT OF THE NEWLY APPLIED
SEAL DATED XX/XX/2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800

| | | | | | | | |
|--|---|--------------|---------------|----------------|-------------|------------|--|
|  <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 | | FACILITY #: | | NUMBER: | | |
| | CHECKED: SW/BMCD | | TYPE: VD | | SHEET: REV: | | |
| | APPROVED: PIH1899807 | | SCALE: N.T.S. | | 01-173 | | |
| DATE: 8/14/2024 | | BOM: | | D-425 | | - 002 - .A | |
| ASC FACCS: | | ALT DWG NUM: | | | | | |



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

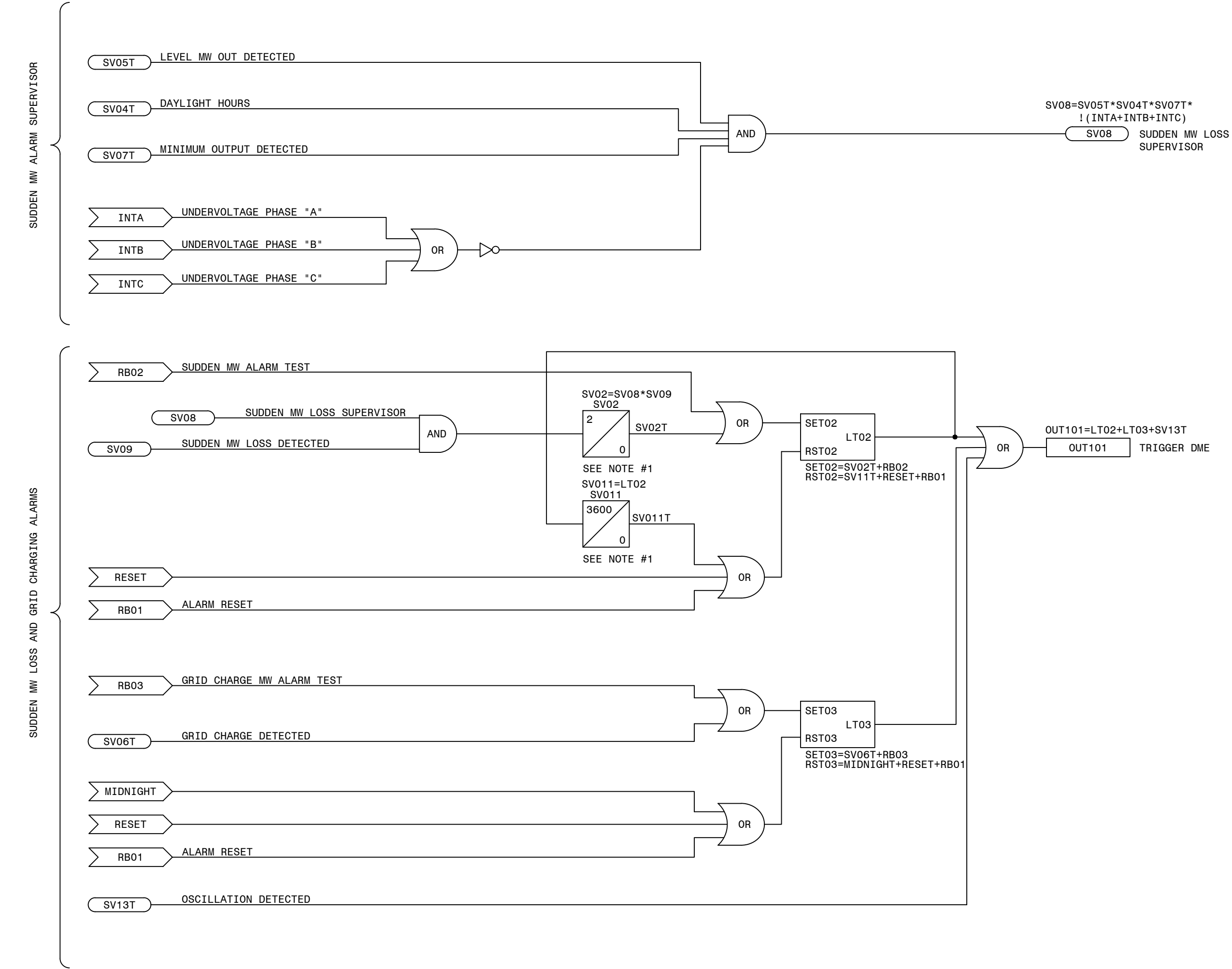
P.I. #1899807

**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 ~~XXXXXX~~2022,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S)00.



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)

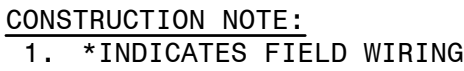
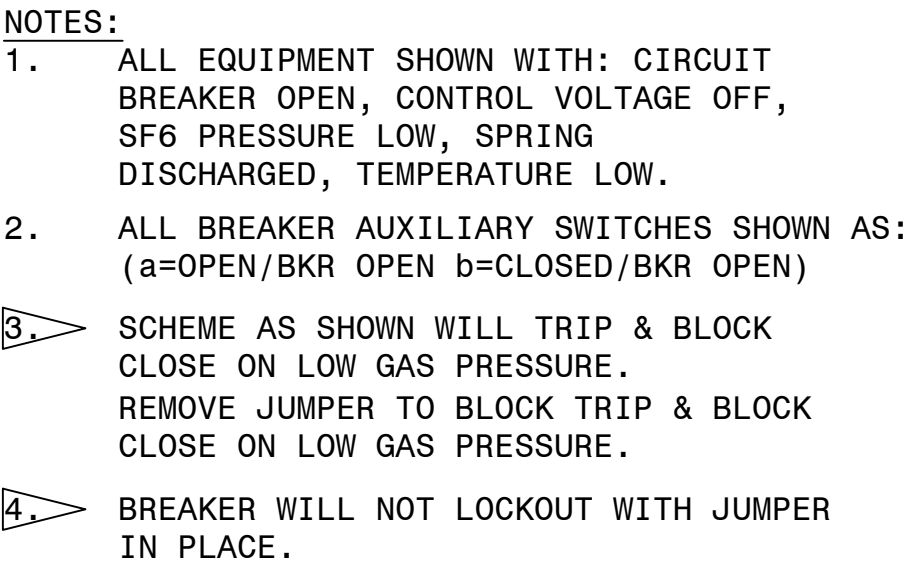
REFERENCES:
D-425-001 PANEL 14 FRONT VIEW
D-425-002 PANEL 14 WIRING DIAGRAM
D-425-003 PANEL 14 AC/DC ELEMENTARY

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>GEORGIA POWER</div><div>A SOUTHERN COMPANY</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 #: | NUMBER: D-425 |
| | SCALE: N.T.S. | | | |
| | BOM: | | SHEET: REV: | |
| ASC FACs: | | ALT DWG NUM: | | |

SGEN-POW_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**

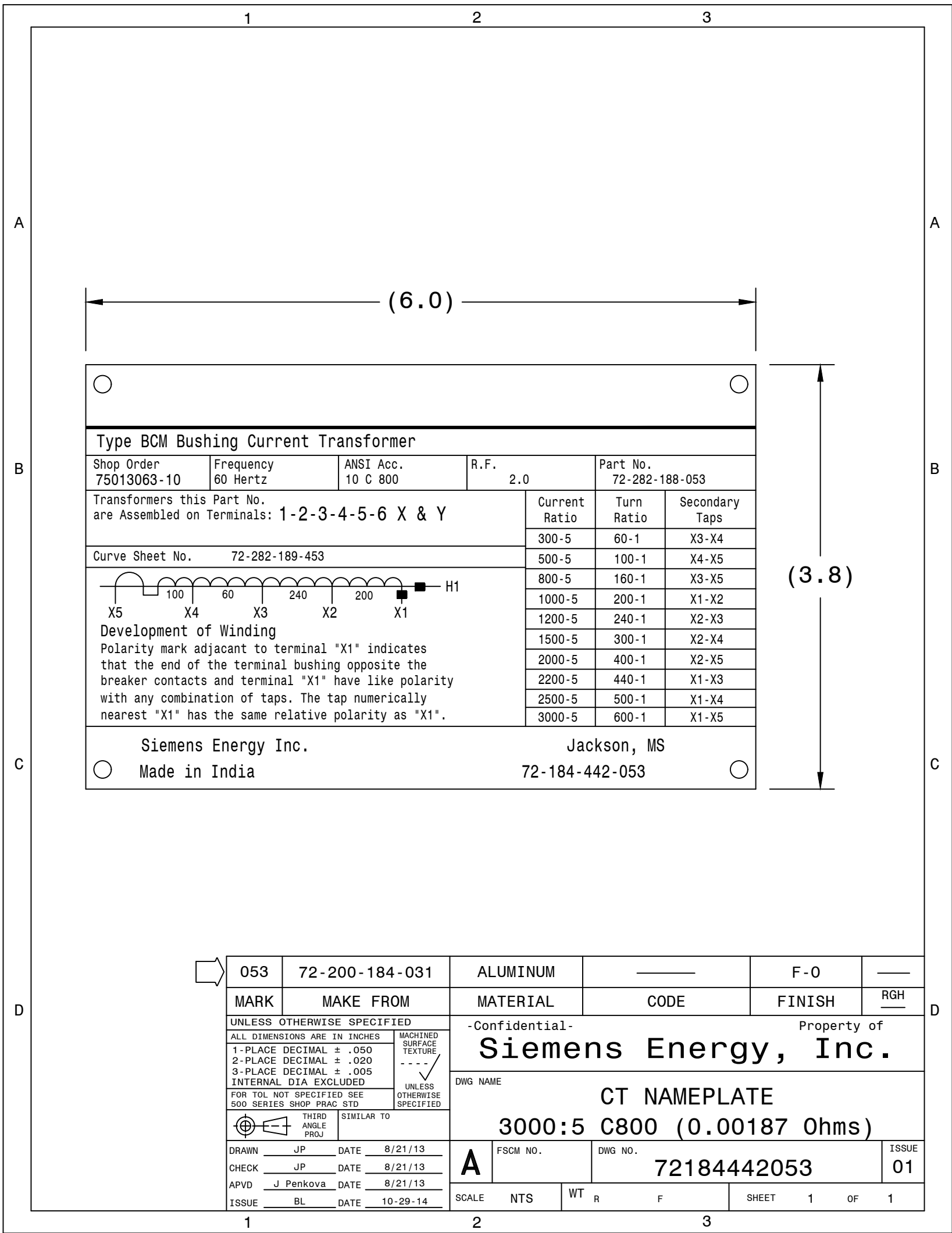
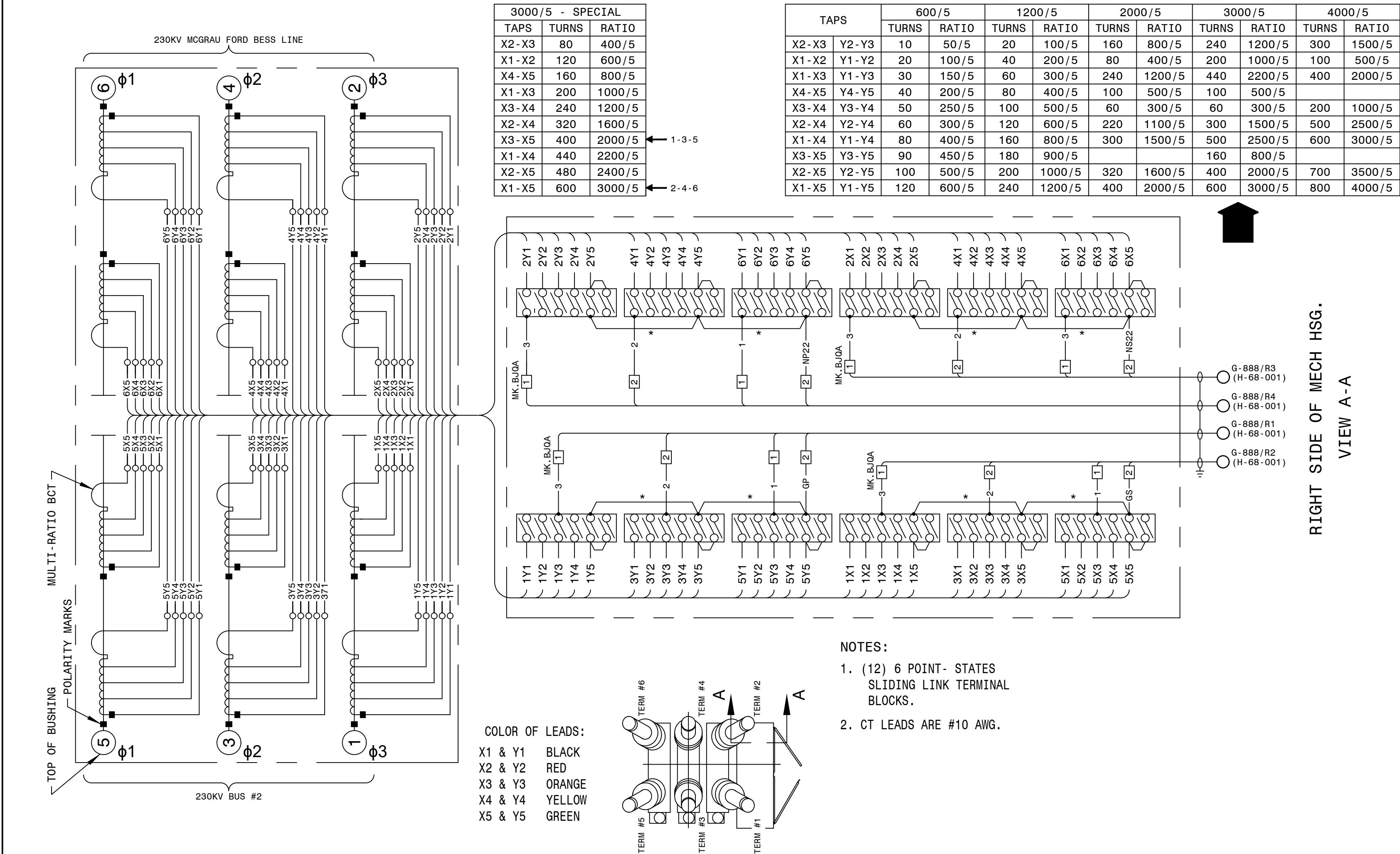
4004 SUMMIT BLVD. NE, SUITE 1200
ATLANTA, GA 30319
PHONE: (770)587-4776

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

THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED XXXXXX2024,
ONLY ASSUMES RESPONSIBILITY FOR THE
CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 00.

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|-----------|---------------|--|--|--|-----|----------------|--|--|--|--------------|--------------|--|--|--|--|-------------|--|--|--|--|
|  <p>GEORGIA POWER 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: | | | | | 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: | | | | | | | | | | |



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

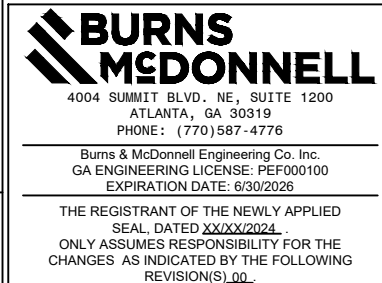
D-426-001 230KV PCB 646888 (CO.#B19453) ELEMENTARY DIAGRAM SH.1

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

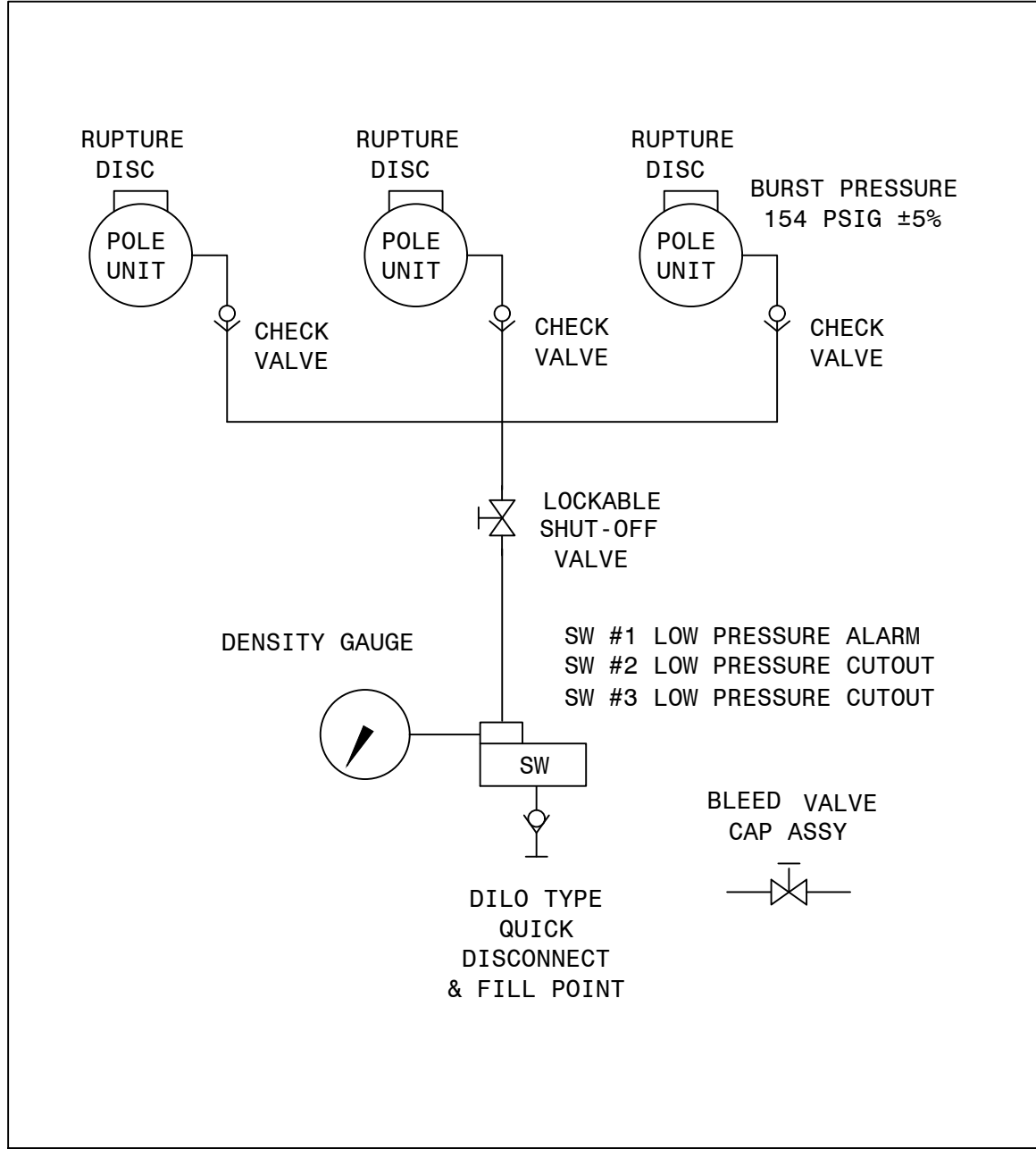
P.I.#1899807



| | | |
|---|---|----------------------|
| 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 #: |
| CHECKED: SW/BHCD | SCALE: N.T.S. | 01-173 |
| APPROVED: PT#1899807 | DATE: 12/17/2024 | NUMBER: D-426 |
| DEV.#: 646888 | ASC FACS: | SHEET: 004 - - |
| ALT DWG NUM: | | REV: |

| | | |
|--|--|---|
| <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 | | | | | |



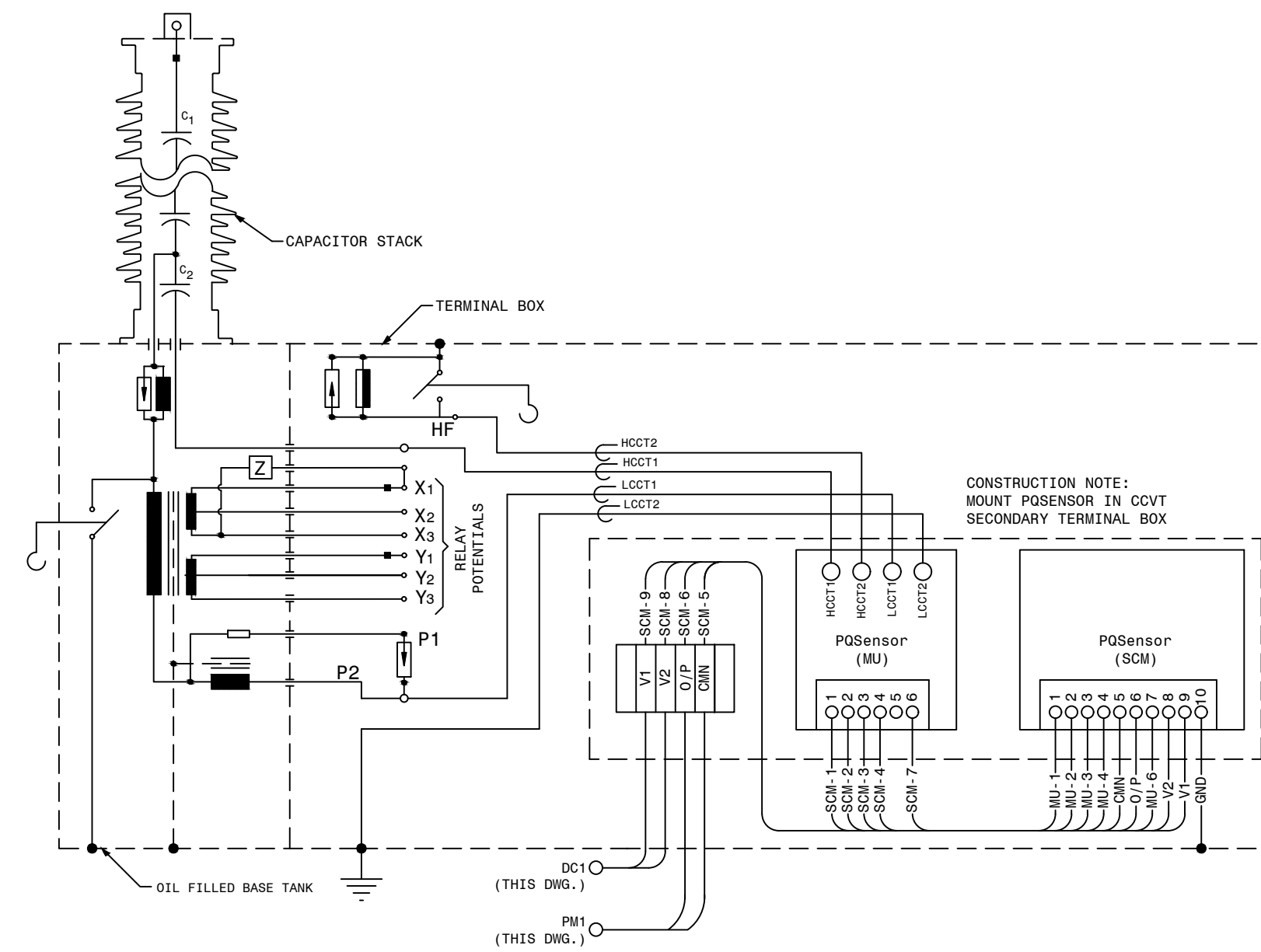
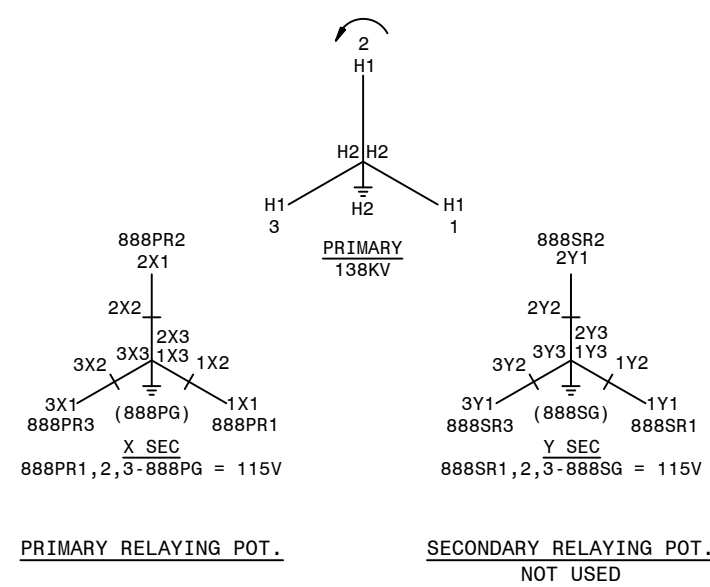
| | | | | | |
|--|--|-------------------------------|--|--|--|
| UNLESS OTHERWISE SPECIFIED | | -Confidential- Property of | | | |
| ALL DIMENSIONS ARE IN INCHES | | Siemens Energy, Inc. | | | |
| 1-PLACE DECIMAL ± .050 | | DWG NAME | | | |
| 2-PLACE DECIMAL ± .020 | | GAS SYSTEM SCHEMATIC | | | |
| 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 | |
| DEV.#: 646888 | | SHEET: 005 | |
| ASC FACS: | | REV: - | |
| | | ALT DWG NUM: | |



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) 587-4776

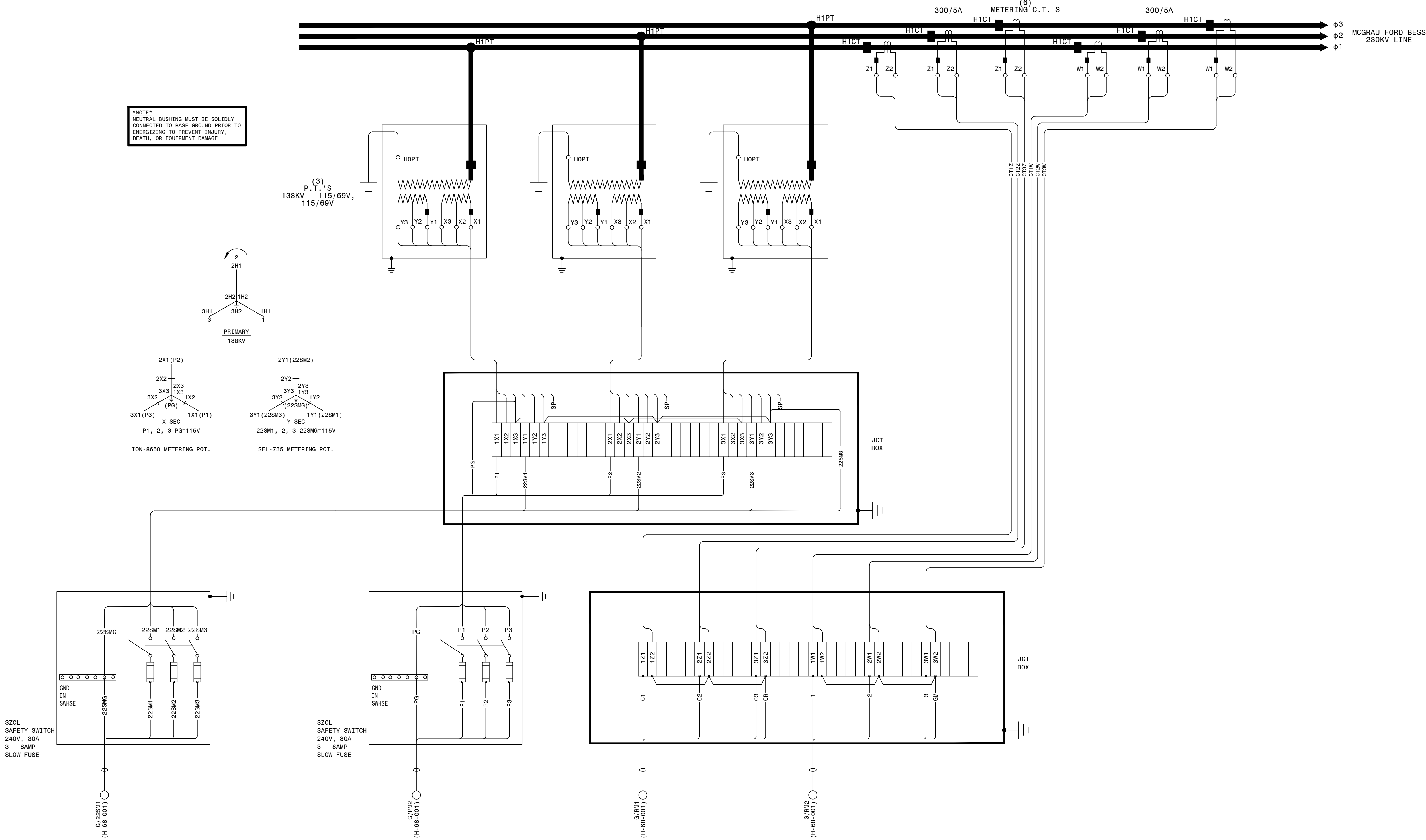
Burns & McDonnell Engineering Co., Inc.
GA ENGINEERING LICENSE: PE000100
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED
SEAL, DATED ~~XXXXXX/XX/XX~~,
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CHANGES AS INDICATED BY THE FOLLOWING
REVISION(S) 00.

AUTOCAD ELECTRICAL
THIS DRAWING CONTAINS AUTOCAD ELECTRICAL ELEMENTS

| | | | | | |
|--|--|---|------------------------------|-------------------------|---|
|  <p>GEORGIA POWER A SOUTHERN COMPANY</p> | FACILITY NAME: MCGRAU FORD TS | | | | |
| | TITLE: 230KV MCGRU FORD BESS CCVT POTENTIAL CONNECTION DIAGRAM | | | | |
| | DRAWN: EG/BMCD CHECKED: SW/BMCD APPROVED: PI#1899807 DATE: 12/19/2024 | TYPE: PT SCALE: N.T.S. BOM: | FACILITY #: 01-173 | NUMBER: D-427 | SHEET: REV: - 001 - 00 |
| | AAS, FACS: | | \ 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

BURNS & MCDONNELL
4004 SAMMET BLVD., NE, SUITE 1200
ATLANTA, GA 30319
PHONE: (770) 887-4775
Burns & McDonnell Engineering Co., Inc.
GA ENGINEERING LICENSE: PE700100
EXPIRATION DATE: 6/30/2026

THE REGISTRANT OF THE NEWLY APPLIED
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CHANGES AS INDICATED BY THE FOLLOWING
REVISIONS/DATE.

AUTOCAD ELECTRICAL
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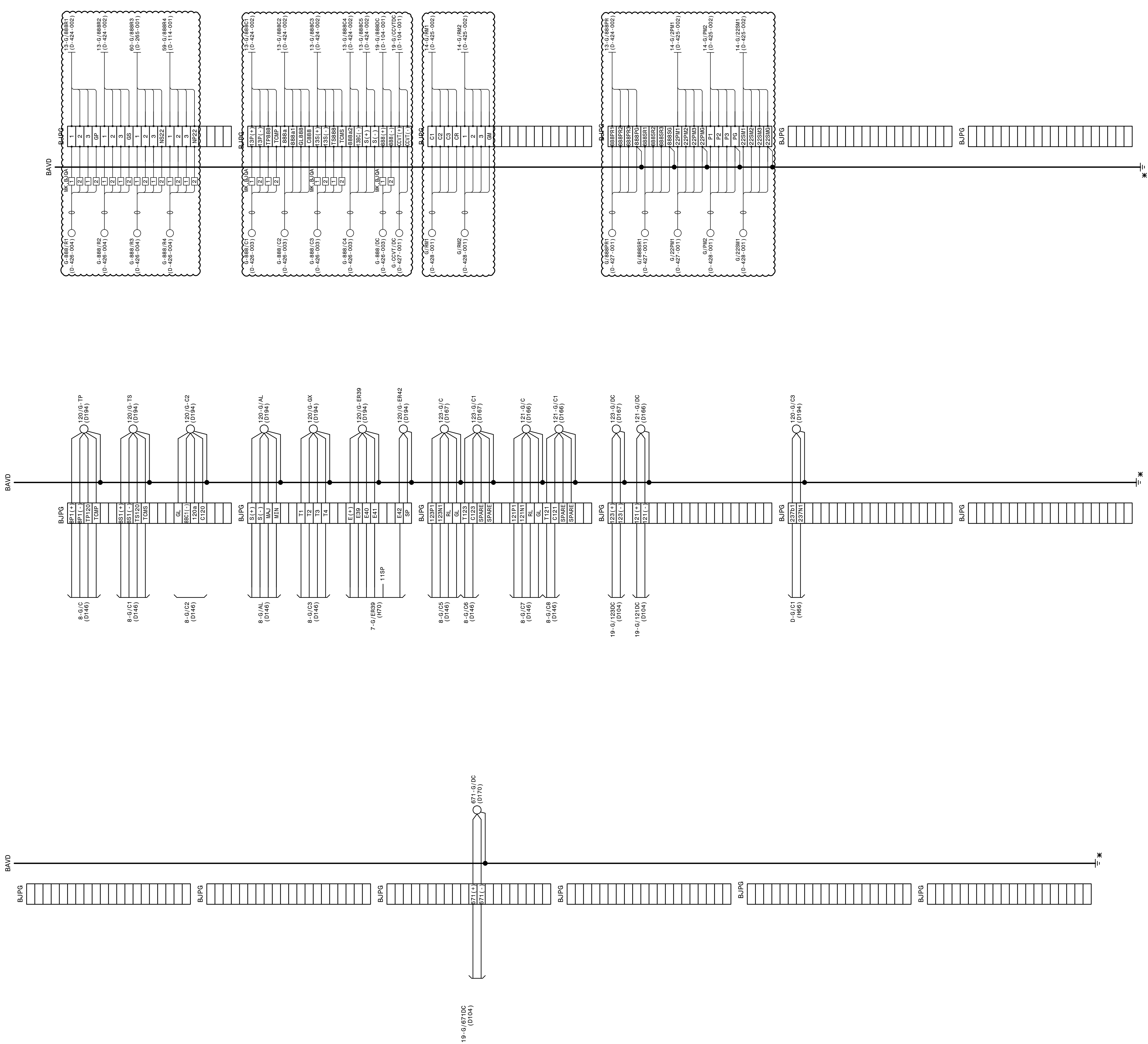
| | | | | | |
|--|--|-------------|----------------|---------|-------------|
| <div><div><div>GEORGIA POWER</div><div>A SOUTHERN COMPANY</div></div><div><div>DRAWN: EG/BMCD</div><div>CHECKED: SW/BMCD</div><div>APPROVED: P.I.#1899807</div><div>DATE: 12/19/2024</div></div></div> | FACILITY NAME: | | MCGRAU FORD TS | | |
| | TITLE: MCGRAU FORD BESS LINE INTERCHANGE REVENUE METERING CT AND PT WIRING | | | | |
| | DIAGRAM | | | | |
| | TYPE: WD | FACILITY #: | D- | NUMBER: | SHEET: REV: |
| | SCALE: N.T.S | 01-173 | | 428 | - 001 - 00 |
| BOM: | | | | | |
| ASC FACS: | ALT DWG NUM: | | | | |



1. FIELD TO LOCATE NEW BATTERY EQUIPMENT.

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 #: | | NUMBER: | | SHEET: REV: | |
| SCALE: 3/8"=1'-0" | | 01-173 | | H- 17 | | - 001 - 09 | |
| BOM: | | | | | | | |
| ASC FACS: | | | | ALT 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
ATLANTA, GA 30303
PHONE: (770) 531-4776
FAX: (770) 531-4777
BORN & BRED IN THE SOUTH
GA ENGINEERING LICENSE: 00000000
EXPIRATION DATE: 03/2008
THE REGISTRATION OF THE NAVY APPLIED
SEA, LAND & AIR
ONLY ASSESSMENT 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

CHECKED: JLC
APPROVED: AJW
DATE: 05/30/2005

TYPE: WD
SCALE: N.T.S.
BOM:

FACILITY #:
01-173

NUMBER:
68

SHEET: REV:
-001-02

ASC FAC:

ALT DWG NUM:

