Eagle Copters USA, Inc.
3845 NE 30th Avenue
Hillsboro, OR 97124

INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

FOR

P122 AND P132 SWITCH CONSOLES
G12310 , G10251
FOR
EUROCOPTER MODEL AS350 HELICOPTERS

Report No.: ICA107-2

STC No.: SH4747NM

PREPARED BY: G. Andrews

Rev. D DATE: 07/02/19

DETAILS OF REVISIONS

REV.	DATE	PAGE	DESCRIPTION	APPROVED
N/C	08/02/10	All	Initial Release	C. Bonar
A	01/30/13	All	Updated all wiring diagrams to be organized by MOD level; Added instructions for MOD 350A07-4280	C. Bonar
B	02/03/15	All	Updated company name and revised entire document to harmonize with GA107 Rev R changes. Revised Section 3.0 Inspection requirement time interval.	C. Bonar
C	11/01/17	All	Added changes from ECO-1538, ECO-1541 and ECO-1542	G. Andrews
D	07/02/19	All	Added Section 5.3 Cyclic Stick Inspection. Added Annual Inspection. Updated company address.	K. Barton

RECORD OF SERVICE BULLETINS

S/B NO.	DATE	DESCRIPTION
GA107-7	06/14/05	Cyclic Stick Interference with P132 Console

LIST OF EFFECTIVE PAGES

TABLE OF CONTENTS

LIST OF FIGURES

Figure Number and Title **Page**

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LIST OF APPLICABLE DOCUMENTS

Document Number	Description
GA107-2	Rotorcraft Flight Manual Supplement : P122 Console
GA107-2-P132	Rotorcraft Flight Manual Supplement : P132 Console
GA107-13	Rotorcraft Flight Manual Supplement : P122 & P132 Consoles post mod AMS07-4280

Section 1.0 Introduction

1.1 Scope

This manual provides description, operation, disassembly, inspection, repair and testing instructions, as well as an Illustrated Parts List for P122 and P132 Switch Consoles.

1.2 Purpose

The purpose of this manual is to maintain the P122 and P132 Switch Consoles in peak operating efficiency with the greatest service life.

1.3 Revision Control Procedure

All revisions to this document shall be identified in the Details of Revisions. All pages will be summarized on page 4, “List of Effective Pages.”

1.4 Service Difficulty Reporting

A record of sales shall be maintained by Eagle Copters. Any changes to these instructions resulting from service difficulties (ref: 14 CFR § 21.3) shall be distributed to all previous recipients.

1.5 Applicability

This manual shall be used to maintain the P122 and P132 Switch Consoles for Eurocopter AS350 series Helicopters.

1.6 Abbreviations and Units of Measure

in	=	inches
lbs	=	pounds
P/N	=	part number
I/N	=	item number
LH	=	left hand
RH	=	right hand
CB	=	circuit breaker

1.7 Orientation

All references to direction, such as left, right, up, down, forward and aft, are in reference to the airframe. Forward is toward the nose of the aircraft, etc.

1.8 Precautions

The following precaution definitions will be used to indicate the seriousness of the hazard or condition.

WARNING: May be a maintenance procedure, practice, condition, etc., which could result in personal injury or loss of life.

CAUTION: May be a maintenance procedure, practice, condition, etc., which could result in damage or destruction of equipment.

NOTE: May be a maintenance procedure, practice, condition, etc., or a statement that needs to be highlighted

1.9 Distribution

This manual will be distributed to end users (or their mechanics or maintenance departments). A copy of this ICA shall be provided by Eagle Copters with each kit sold.

1.10 Description

The Eagle Copters P122 or P132 Console replaces the factory switch console. The pushbutton switches and the barrel fuses or circuit breakers found on the factory console are replaced by Mil-Spec toggle switches and circuit breakers.

In addition, the P132 console contains space for mounting additional radios or other avionics equipment. This makes it larger than the factory console, creating potential interference with the cyclic stick at the extreme limits of travel. The factory cyclic sticks must be replaced with Eagle Copters cyclic sticks in any aircraft with a P132 console installed, per Service Bulletin GA107-7. This Service Bulletin is not relevant to the P122 console.

Section 2.0 Airworthiness Limitations

There are no Airworthiness Limitations associated with the STC.

The Airworthiness Limitation Section is FAA approved and specifies inspections and other maintenance required under 14 CFR Part 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

Section 3.0 Inspection Requirements and Overhaul Schedule

3.1 Inspection Requirements

3.1.1 On-Condition Repairs

The Console is not time limited and has no time limited internal components. Repairs are to be made On Condition in accordance with the appropriate section in this document.

3.1.2 Annual Inspection

a. This inspection should coincide with the OEM specified annual inspection for the aircraft.

b. For aircraft fitted with P132 consoles, inspect the cyclic sticks in accordance with Section 5.3.

c. Reinstall any removed or replaced parts per applicable portions of Section 4.0 or Section 5.0, and return the aircraft to operational condition.

3.1.3 12 year Inspection

a. This inspection should coincide with the OEM specified 12 year inspection for the aircraft.

b. Remove the Console assembly from the aircraft. See Section 4.0 for the P122 Console and Section 5.0 for the P132 Console.

c. Inspect all sheet metal components for damage and corrosion. If damage or excessive corrosion is found, replace the affected parts per Section 4.0 for the P122 Console or Section 5.0 for the P132 Console. Corrosion that has penetrated more than 0.02” is cause for replacement of sheet metal and machined aluminum components.

d. Inspect all wiring for damage and proper security. Any wires that are damaged need to be repaired or completely replaced.

e. For aircraft fitted with P132 consoles, inspect the cyclic sticks in accordance with Section 5.3.

f. Reinstall any removed or replaced parts per applicable portions of Section 4.0 or Section 5.0, and return the aircraft to operational condition.

3.2 Overhaul Schedule

There is no Overhaul Schedule for this kit.

Section 4.0 P122 Console Removal, Inspection and Re-Installation

4.1 P122 Console Removal

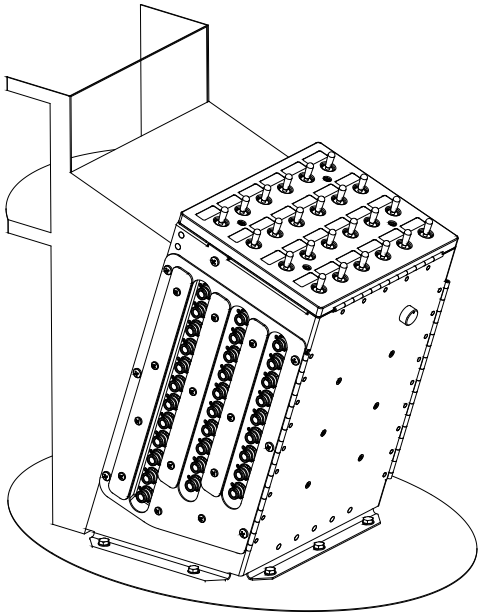

FIGURE 1: P122 CONSOLE, INSTALLED (G12310)

4.1.1 Remove the screws along the forward edge of the left- and right-hand breaker panels and open the breaker panels to reveal four flat-head screws near the forward edges of the console body. Remove these screws and the (7) 5mm screws securing the console to the cabin floor.

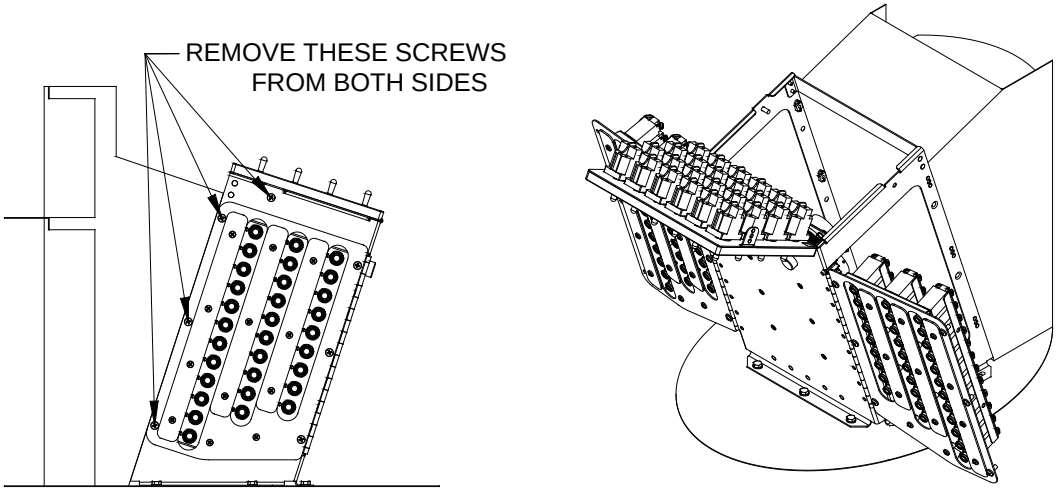

FIGURE 2: REMOVAL OF P122 CONSOLE

4.1.2 Disconnect all airframe wires and cables from the console, including the circular connectors, the bus wires at the bottom, and any airframe wires that may be connected directly to switches or breakers on the console. For any discrete airframe wires, note which terminals of which devices they were connected to.

4.1.3 Remove the console from the aircraft.

4.2 P122 Console Inspection

CAUTION

The console contains circuit board assemblies, and diodes mounted on the connector bracket. Like most electronic devices, these may be subject to damage by electrostatic discharge (ESD). Installation or removal of the diodes or circuit boards should follow the guidelines in AC43.13-1b Par 12-2 and AC 43-206 Par 905, which are summarized below:

When removing ESD-sensitive equipment from the aircraft, the aircraft should be grounded and power removed. Prior to disconnecting the cables from the equipment, personnel should touch the metal case of the equipment to equalize any electrostatic potential. Once the cables are disconnected, conductive dust caps or conductive grid tape should be placed on the connector receptacles.

Circuit cards and components should be packaged in ESD-protective packaging prior to leaving the ESD workstation. Static shielding bags which have a static-dissipative inner layer and a conductive outer layer are used for this purpose. They should be noncorrosive and should zip-lock or heat seal closed. Cushion wrap (bubble wrap) used around circuit cards should also be made of static-dissipative material.

4.2.1 Inspect the metal parts of the console for cracks or excessive corrosion, including the console shell, the breaker panels and cover plates, the switch plate, the lighting overlay, the connector bracket and the two attachment brackets that are riveted to the airframe. If any of the parts are cracked or excessively corroded (refer to Section 3.1.3c for corrosion limits) they must be removed and replaced.

4.2.2 The metal parts of the console shell, breaker panels and cover plates, switch plate, lighting overlay, and two attachment brackets may be replaced in the field. However, replacing the connector bracket requires major wiring work. If the connector bracket requires replacement, the console should be returned to the factory for service.

4.2.3 Inspect all fasteners and hardware for security and condition.

4.2.4 Refer to Section 6.0 for inspection of the console / airframe connectors and wiring.

4.3 P122 Console Reinstallation

4.3.1 Re-connect all cables to the console, including the circular connectors, the bus wires at the bottom, and any discrete airframe wires that are connected directly to switches or breakers on the console.

4.3.2 Mount the console in position as before and secure to the floor using (7) 5mm x 12mm screws (22208BC050012L) and 5mm washers (23111AG050LE).

4.3.3 Secure console to brackets at the forward edges using (4) #8-32 x 3/8 flat head screws (MS24693-48, or AN507-832R6).

4.3.4 Close the left- and right-hand breaker panels and secure them in place with the screws that were removed earlier.

4.4 P122 Console Post MOD 350A07-4280 Reinstallation

4.4.1 These instructions are for installing the P122 Console into aircraft that are post MOD 350A07-4280.

4.4.2 Refer to Figure 3 to Figure 6 for installing the P122 Console.

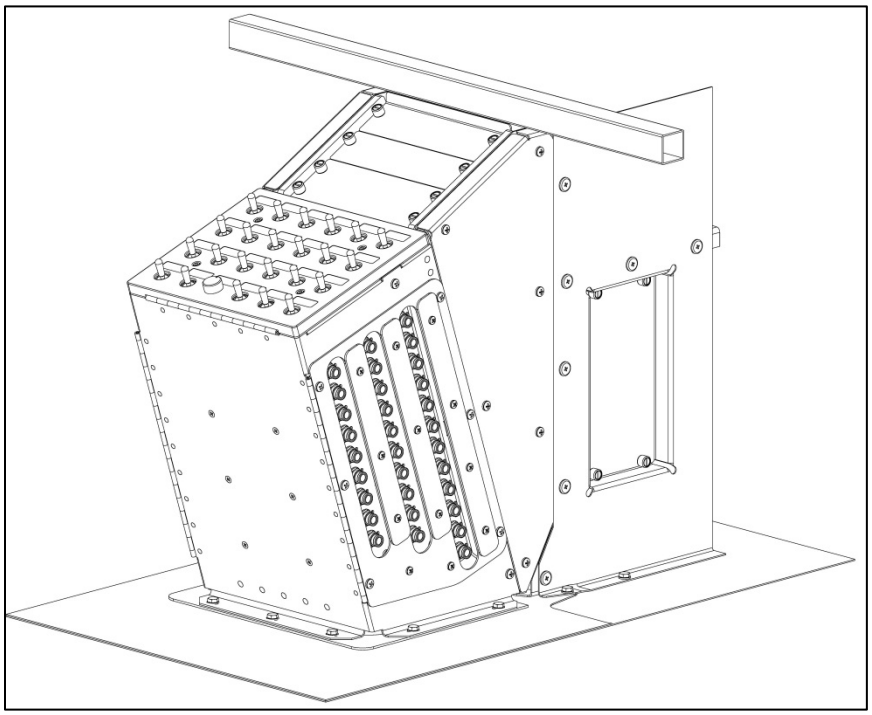

FIGURE 3: P122 CONSOLE INSTALLED

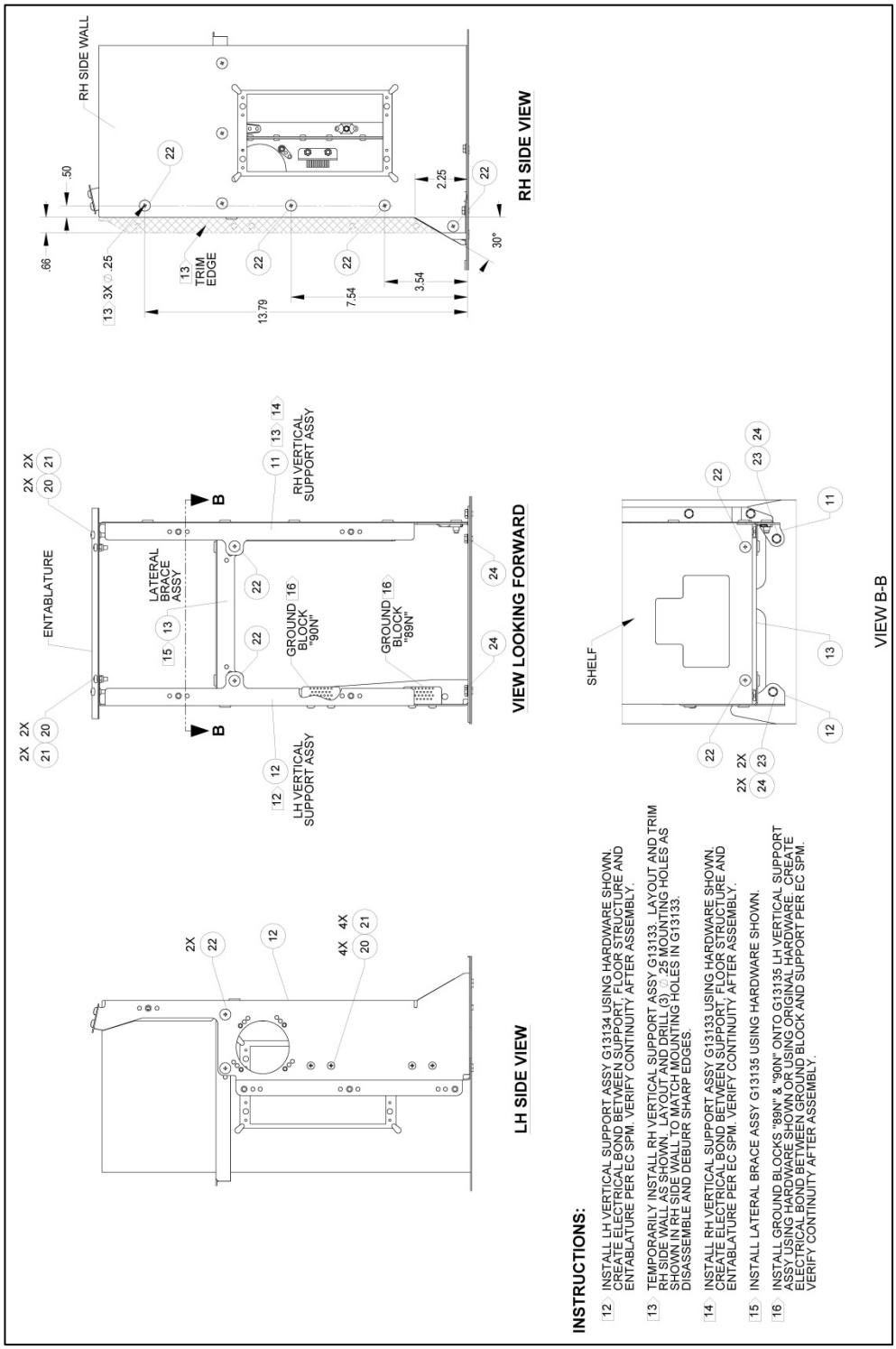

FIGURE 4: SUPPORT STRUCTURE INSTALLATION

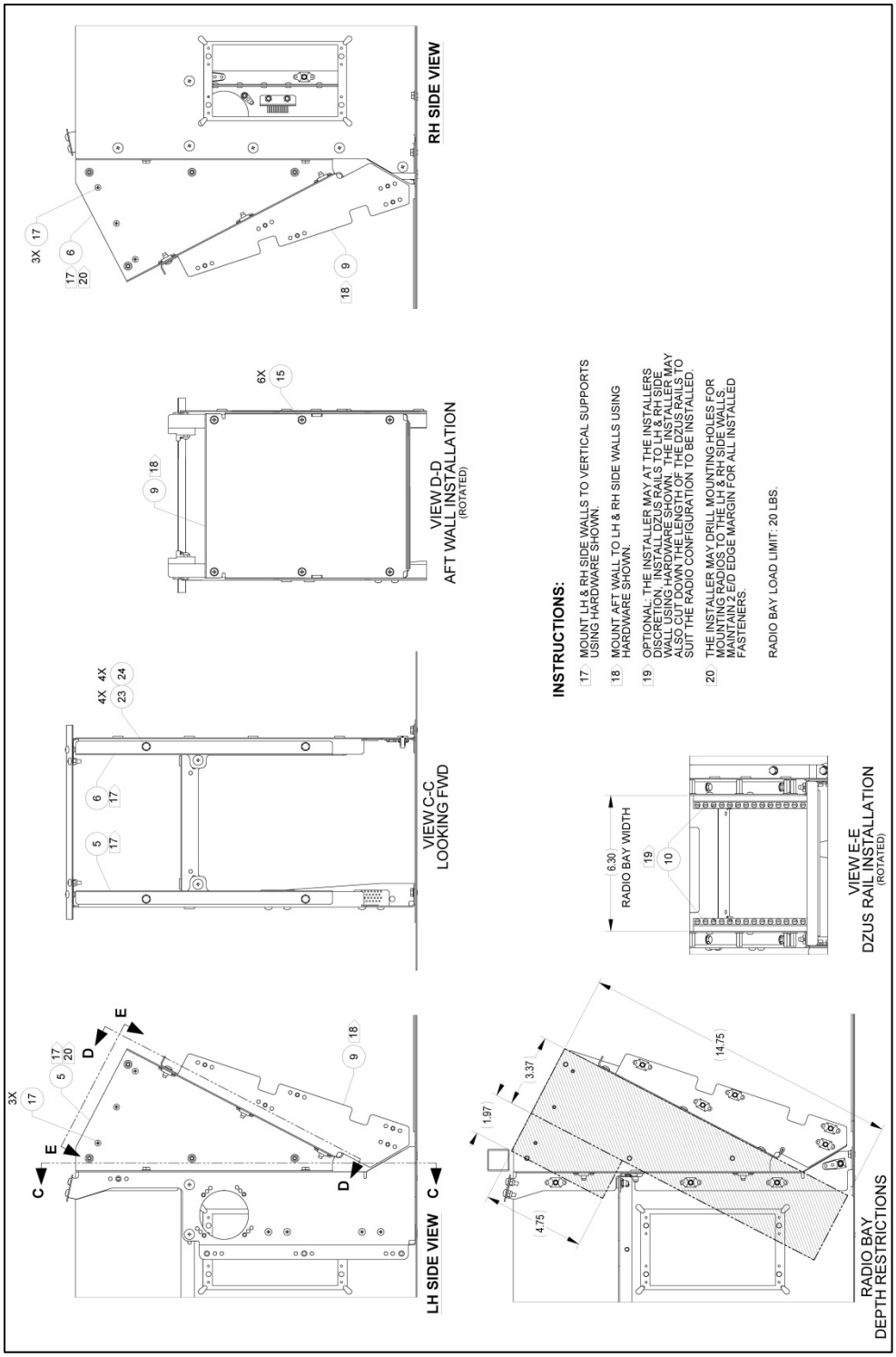

FIGURE 5: SUPPORT STRUCTURE INSTALLATION

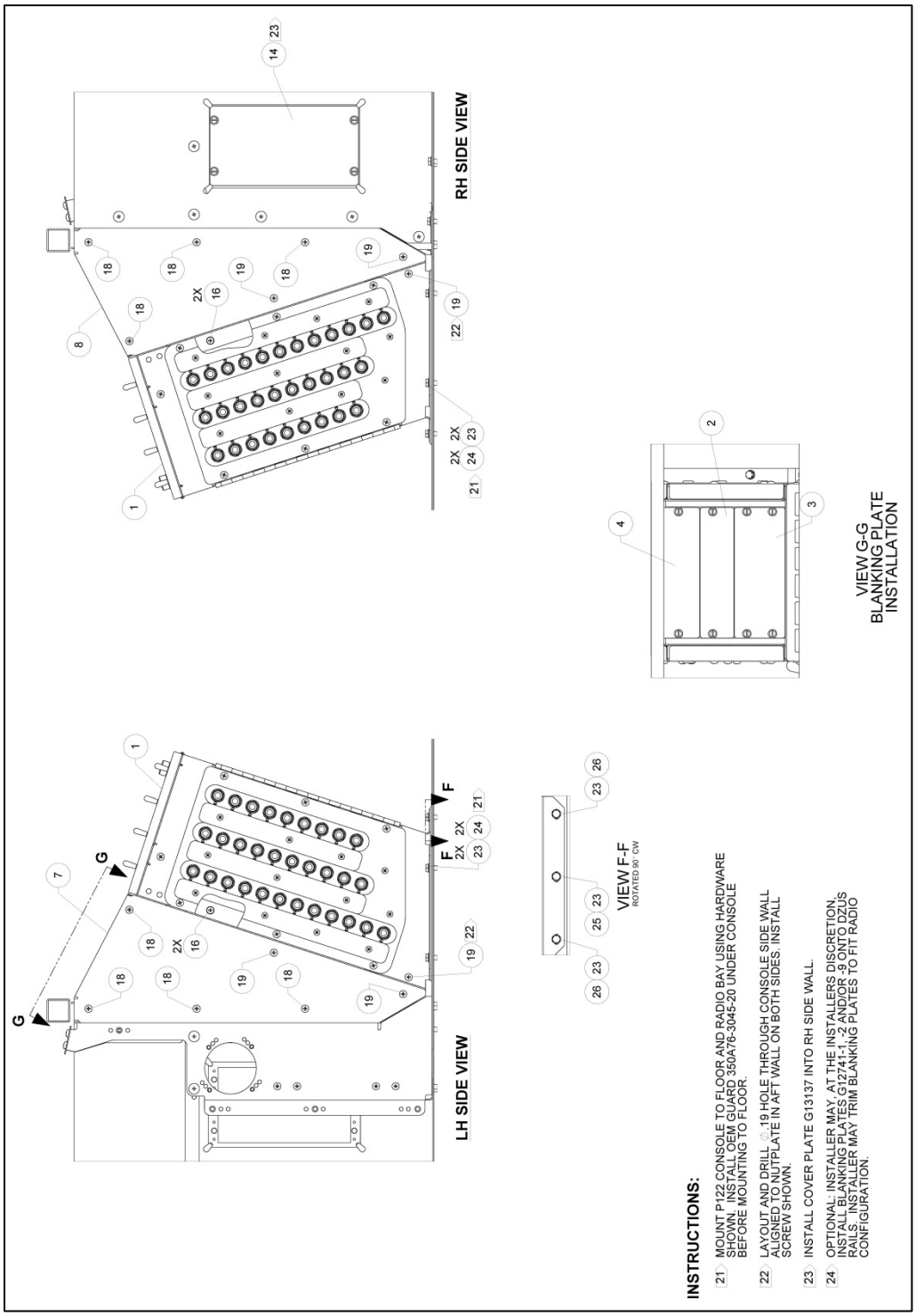

FIGURE 6: P122 CONSOLE INSTALLATION

Parts List for FIGURE 3 TO FIGURE 6

ITEM NO.	QTY.	PART NUMBER	VENDOR	DESCRIPTION
26	2	22208BC050016L	EUROCOPTER	BOLT, 5MM X 16MM
25	1	22208BC050014L	EUROCOPTER	BOLT, 5MM X 14MM
24	11	22208BC050012L	EUROCOPTER	BOLT, 5MM X 12MM
23	14	23111AG050LE	EUROCOPTER	WASHER, 5MM FLAT
22	10	A0164TK050S012X	EUROCOPTER	SCREW, TI, M5 X 12MM
21	8	22542K040	EUROCOPTER	LOCKNUT, M4
20	8	22272BC040012L	EUROCOPTER	PAN HEAD SCREW M4 X 12MM
19	6	8C43PPMSB	GENERIC	SCREW, PH, #8-32 x 7/16 BLACK
18	8	8C31PPMSB	GENERIC	SCREW, PH, #8-32 x 5/16 BLACK
17	6	MS35206-228	GENERIC	SCREW, PH, #6-32 x 3/8
16	4	MS24693S49	GENERIC	SCREW, FH, #8-32 x 7/16
15	6	AN525-832R7	GENERIC	SCREW, WASHER HEAD, #8-32 x .44
14	1	G13137	GENEVA	COVER PLATE
13	1	G13135	GENEVA	LATERAL BRACE ASSY
12	1	G13134	GENEVA	LH VERTICAL SUPPORT ASSY
11	1	G13133	GENEVA	RH VERTICAL SUPPORT ASSY
10	2	G13128	GENEVA	DZUS RAIL ASSY
9	1	G13127	GENEVA	AFT WALL ASSY
8	1	G13126	GENEVA	RH COVER PLATE
7	1	G13125	GENEVA	LH COVER PLATE
6	1	G13124	GENEVA	RH WALL ASSY
5	1	G13123	GENEVA	LH WALL ASSY
4	1	G12741-9	GENEVA	BLANKING PLATE
3	1	G12741-2	GENEVA	BLANKING PLATE
2	1	G12741-1	GENEVA	BLANKING PLATE
1	1	G12310	GENEVA	P122 CONSOLE

4.5 P122 Console Illustrated Parts List

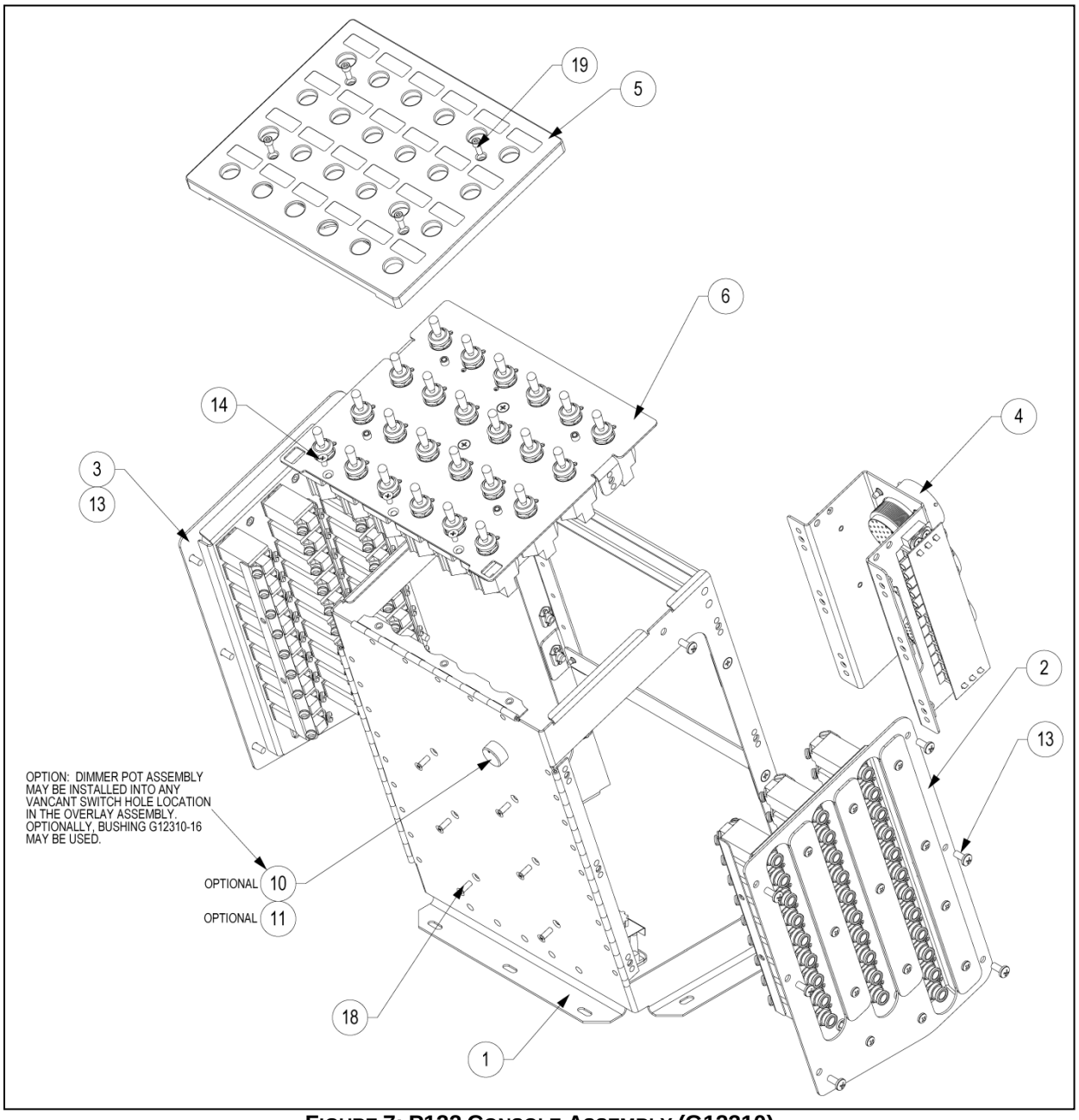

FIGURE 7: P122 CONSOLE ASSEMBLY (G12310)

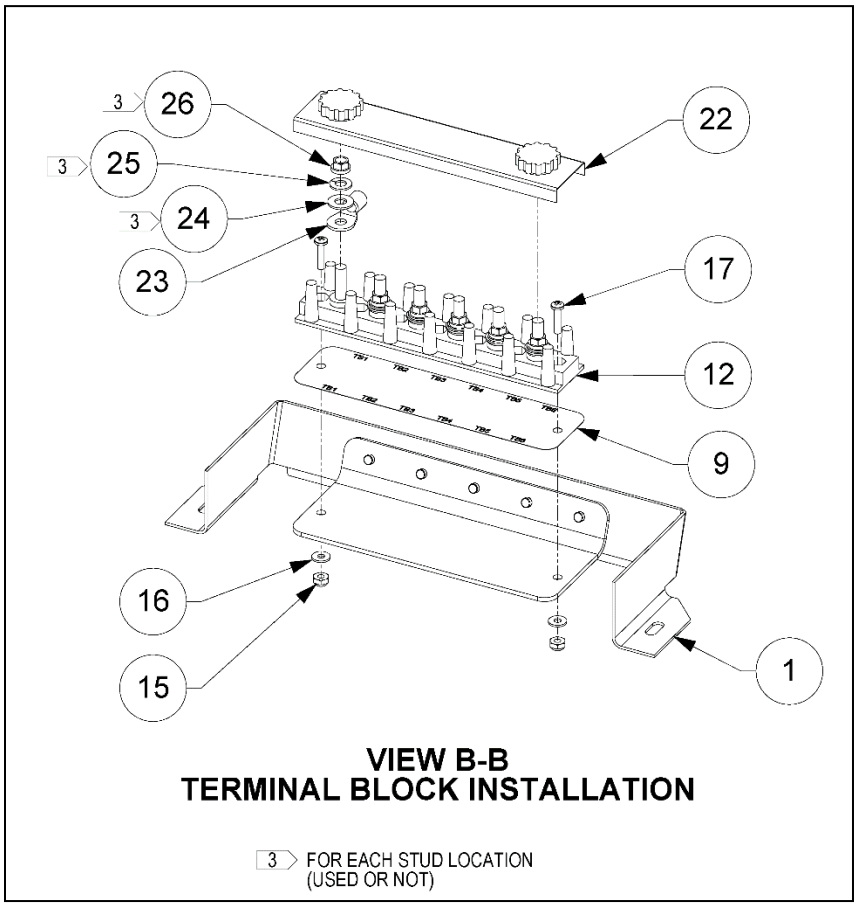

FIGURE 8: P122 TERMINAL BLOCK ASSEMBLY (G12310)

PARTS LIST for Figure 7 and Figure 8

I/N	QTY	PART NUMBER	DESCRIPTION
1	1	G12310-1	CONSOLE BODY ASSY
2	1	G12310-2	RH CB DOOR ASSY
3	1	G12310-3	LH CB DOOR ASSY
4	1	G12310-5	CONNECTOR BRACKET ASSY
5	1	G12310-6	OVERLAY ASSY
6	1	G12310-7	SWITCH PLATE ASSY
9	1	G10283-2	PLACARD, TERMINAL BLOCK
10	1	G12132-24	DIMMER POT ASSEMBLY
11	1	G12298	WIRE SHIELD
12	1	MS27212-2-6	TERMINAL BLOCK, 6 POS
13	14	MS35206-243	SCREW, PH, #8-32 x 3/8
14	3	MS24693-24	SCREW, FH, 100°, #6-32 x 1/4
15	2	MS21044N04	LOCKNUT, #4-40, NYLON
16	2	NAS1149FN432P	WASHER, FLAT, #4 x .032 THK
17	2	MS35206-217	SCREW, #4-40 x 1/2 PAN HEAD
18	6	MS24693-26B	SCREW, FH, #6-32 x 3/8
19	4	6C37SHCA	SCREW, #6-32 x 3/8, SHCS
22	1	MS18029-2S-6	COVER, TERMINAL BLOCK
23	A/R	33460	RING TERMINAL 33460, #10 x 8 GA.
24	6	NAS1149F0332P	WASHER, #10-32 FLAT
25	6	MS35338-43	WASHER #10 LOCK
26	6	MS21042L3	LOCKNUT, #10-32

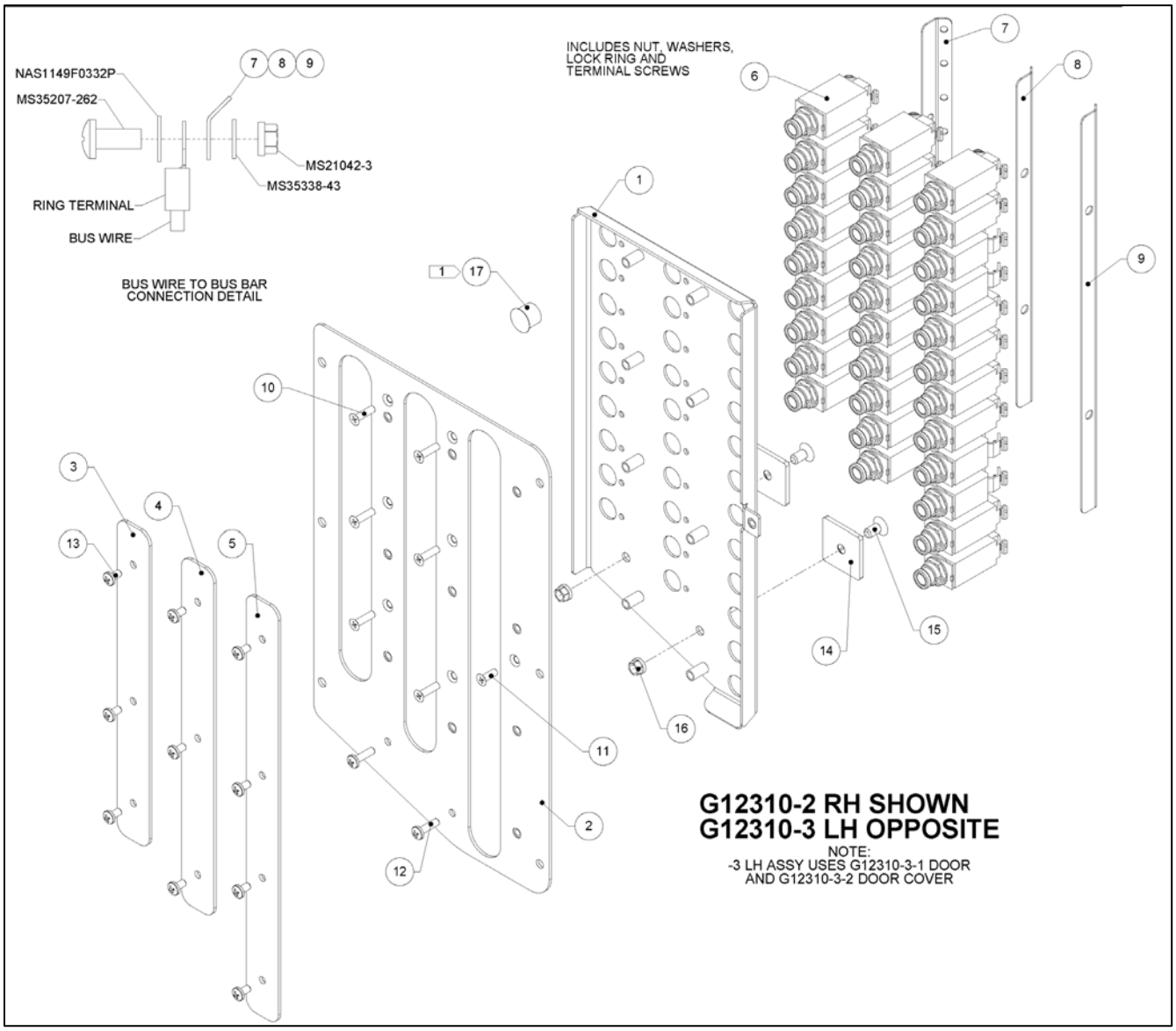

FIGURE 9: P122 CONSOLE BREAKER PANEL ASSEMBLY (G12310-2 AND -3)

PARTS LIST for Figure 9

I/N	QTY -2 RH	QTY -3 LH	PART NUMBER	DESCRIPTION
1	1	0	G12310-2-1	CIRCUIT BREAKER DOOR RH
1	0	1	G12310-3-1	CIRCUIT BREAKER DOOR LH
2	1	0	G12310-2-2	DOOR COVER RH
2	0	1	G12310-3-2	DOOR COVER LH
3	1	1	G12310-11	CB LABEL (#9)
4	1	1	G12310-12	CB LABEL (#10)
5	1	1	G12310-13	CB LABEL (#12)
6	31	31	SEE LIST BELOW	CIRCUIT BREAKER
7	1	1	G12135-9	BUS BAR
8	1	1	G12135-10	BUS BAR
9	1	1	G12135-12	BUS BAR
10	6	6	MS24693S28	SCREW, 100° FLAT HEAD, #6-32 x 1/2
11	1	1	MS24693-26B	SCREW, FH, #6-32 X 3/8, BLACK
12	2	2	6C50PPMSB or MS35206-230	SCREW, PH, #6-32 x 1/2, BLACK
13	10	10	6C25PPMSB or MS35206-226	SCREW, PH, #6-32 x 1/4, BLACK
14	2	2	FTH-7A-RT-UVB-C	CABLE MOUNT
15	2	2	MS24693-270	SCREW, 100° FLAT HEAD, #10-32 x 3/8
16	2	2	MS21042L3	LOCKNUT, #10-32
17	A/R	A/R	2633	HOLE PLUG, 3/8”

CIRCUIT BREAKER LIST for Item Number 6 in Figure 9

RATING	PART NUMBER
0.5A	7274-2-1/2*, 7277-2-1/2*
1A	4200-001-1, 4200-002-1, 7274-2-1*, 7277-2-1*
1.5A	4200-001-105, 4200-002-105, 7274-2-1-1/2*, 7277-2-1-1/2*
2A	4200-001-2, 4200-002-2, 7274-2-2*, 7277-2-2*
2.5A	4200-001-205, 4200-002-205, 7274-2-2-1/2*, 7277-2-2-1/2*
3A	4200-001-3, 4200-002-3, 7274-2-3*, 7277-2-3*
4A	4200-001-4, 4200-002-4, 7274-2-4*, 7277-2-4*
5A	4200-001-5, 4200-002-5, 7274-2-5*, 7277-2-5*
7.5A	4200-001-705, 4200-002-705, 7274-2-7-1/2*, 7277-2-7-1/2*
10A	4200-001-10, 4200-002-10, 7274-2-10*, 7277-2-10*
15A	4200-001-15, 4200-002-15, 7274-2-15*, 7277-2-15*
20A	4200-001-20, 4200-002-20, 7274-2-20*, 7277-2-20*

*Due to structural interference, 7274 and 7277 series circuit breakers may be used only in positions that are not adjacent to the connection of a bus wire to a bus bar.

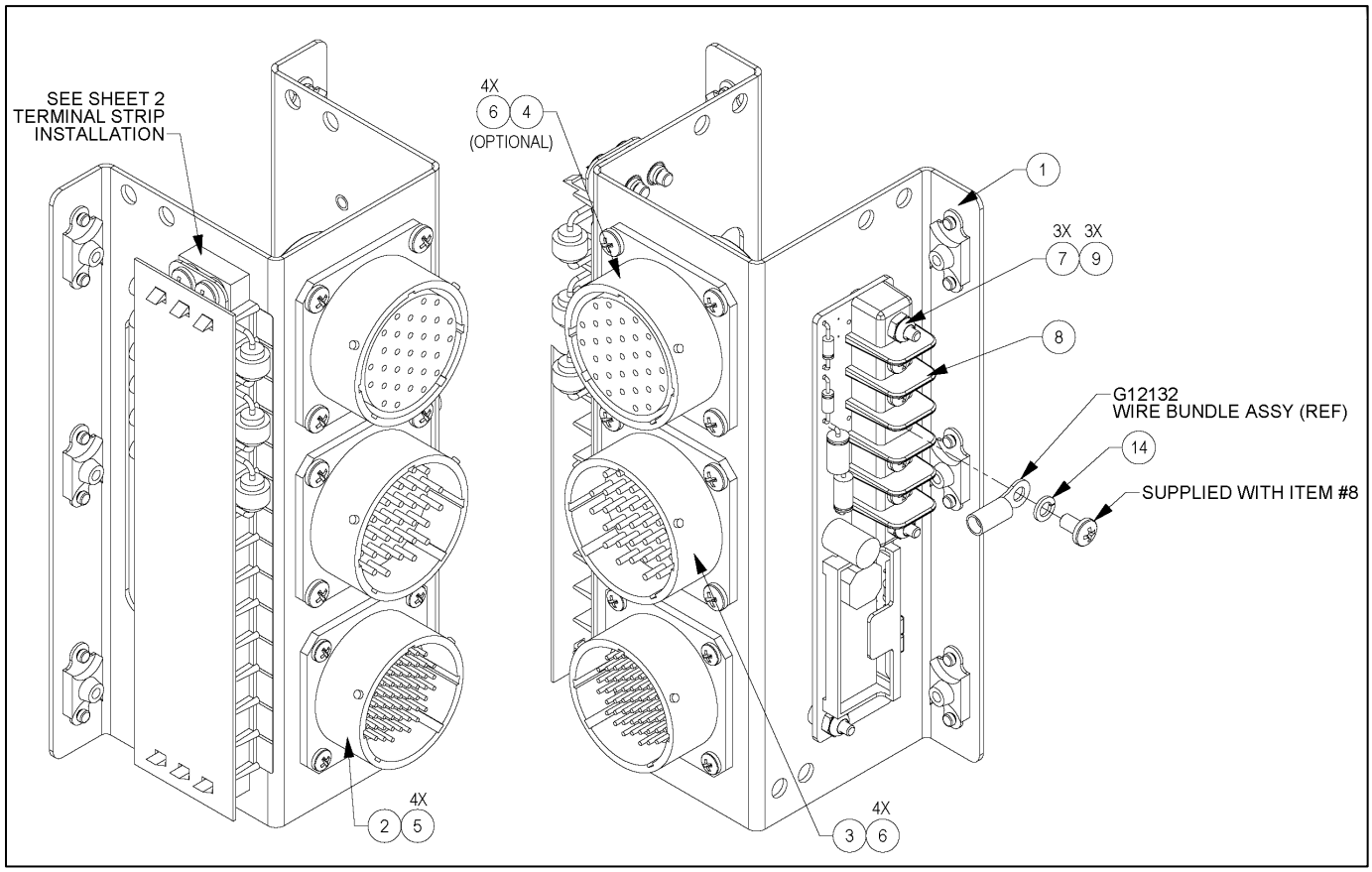

FIGURE 10: P122 CONSOLE CONNECTOR BRACKET ASSEMBLY (G12310-5)

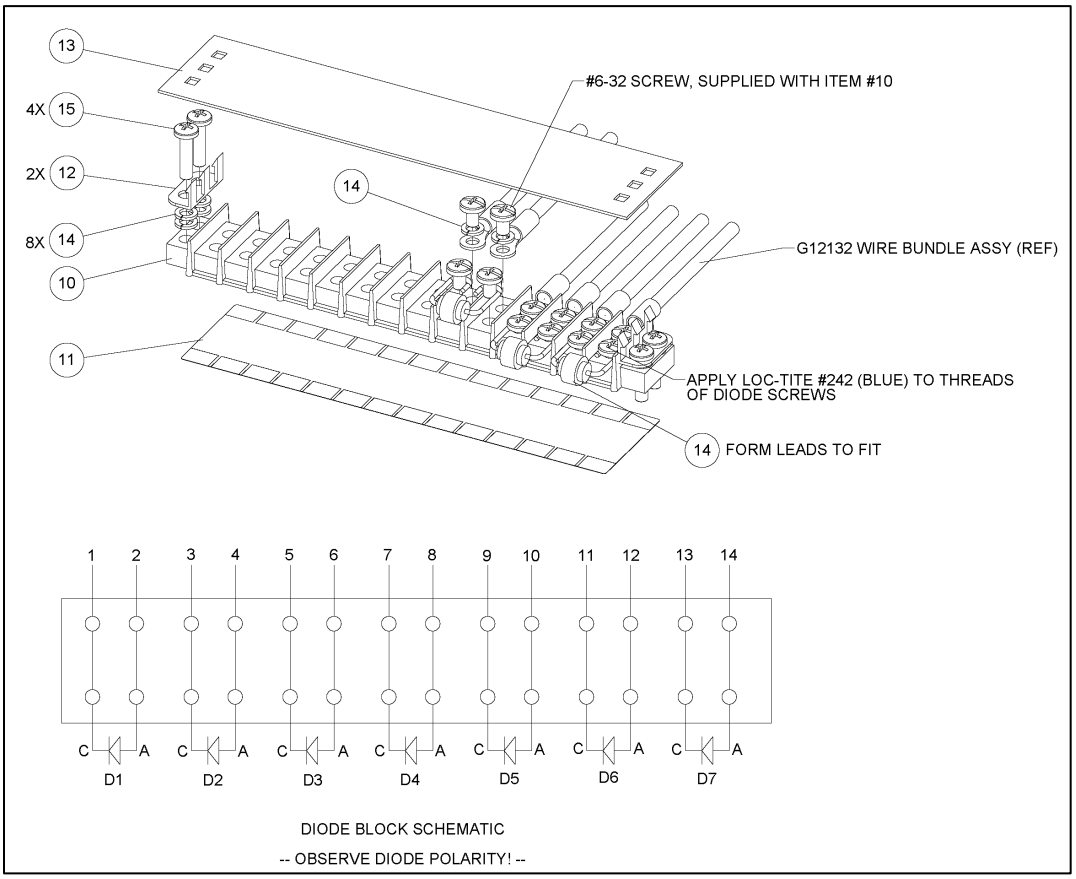

FIGURE 11: P122 CONSOLE DIODE BLOCK ASSEMBLY (G12310-5)

PARTS LIST for Figure 10 and Figure 11

I/N	QTY	PART NUMBER	DESCRIPTION
1	1	G12310-5-1	CONNECTOR BRACKET
2	1	MS3470L22-55P	PANEL MOUNT CONNECTOR, 55 PIN
3	1	MS3470L24-31P	PANEL MOUNT CONNECTOR, 31 PIN
4	1	MS3470L24-31S	PANEL MOUNT CONNECTOR, 31 SOCKET
5	4	MS35206-215	SCREW, PH, #4-40 x 3/8
6	8	MS35206-228	SCREW, PH, #6-32 x 3/8
7	3	MS21044N-04	LOCKNUT, #4-40, NYLON
8	1	G12301	DIMMER CONTROL ASSEMBLY
9	3	875	SPACER, NYLON, #6 x 1/4 x 1/8
10	1	TB100-14B or 1-1546306-4	TERMINAL STRIP, 14 POSITION
11	1	G10283-3	PLACARD, TERMINAL STRIP
12	2	DD1	COVER CLIP
13	1	X12014	COVER STRIP
14	8	MS35338-136 or 6NSLWS	WASHER, #6 LOCK
15	4	MS35206-231 or 6C56PPMS	SCREW, PH, #6-32 x 9/16
16	A/R	6A05-T	DIODE

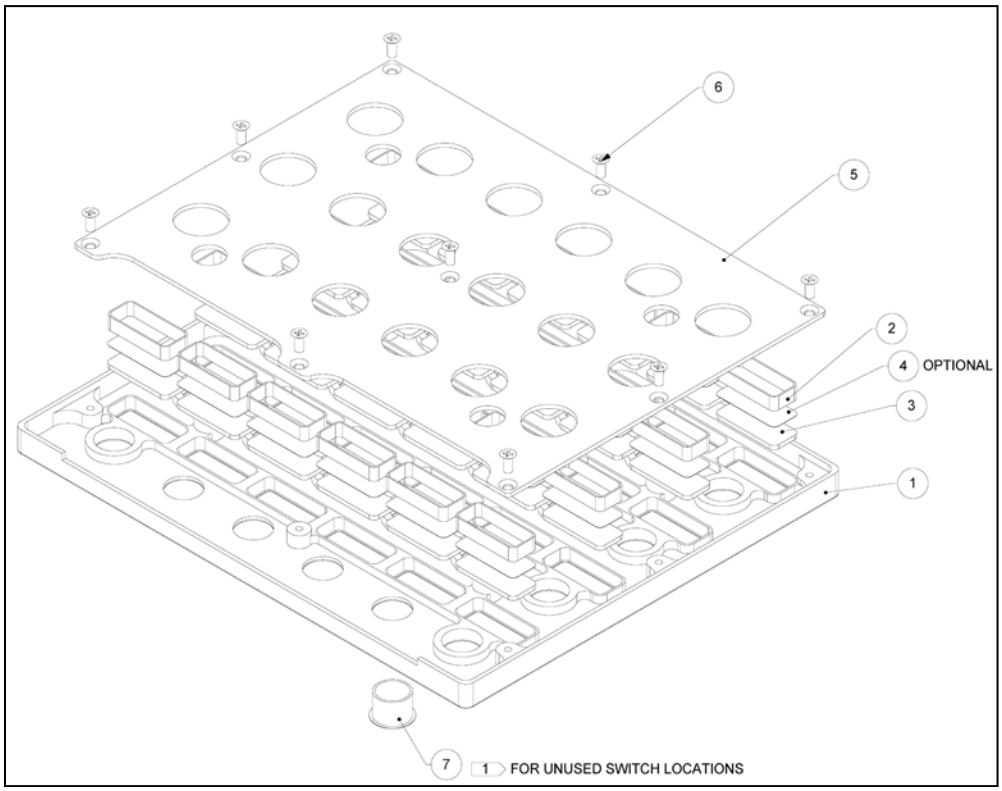

FIGURE 12: P122 CONSOLE LIGHTING OVERLAY ASSEMBLY (G12310-6)

PARTS LIST for Figure 12

I/N	QTY	PART NUMBER	DESCRIPTION
1	1	G12310-6-1	OVERLAY HOUSING
2	24	G12251-2	SPACER - SIDE OVERLAY
3	24	G12142	SIDE LEGEND
4	24	G12142-1	NVIS FILTER (OPTIONAL)
5	1	G12310-6-2	OVERLAY CB ASSY
6	9	MS24693-2 or EQUAL	SCREW, FH, #4-40 x 1/4”
7	A/R	2643	HOLE PLUG, 1/2”

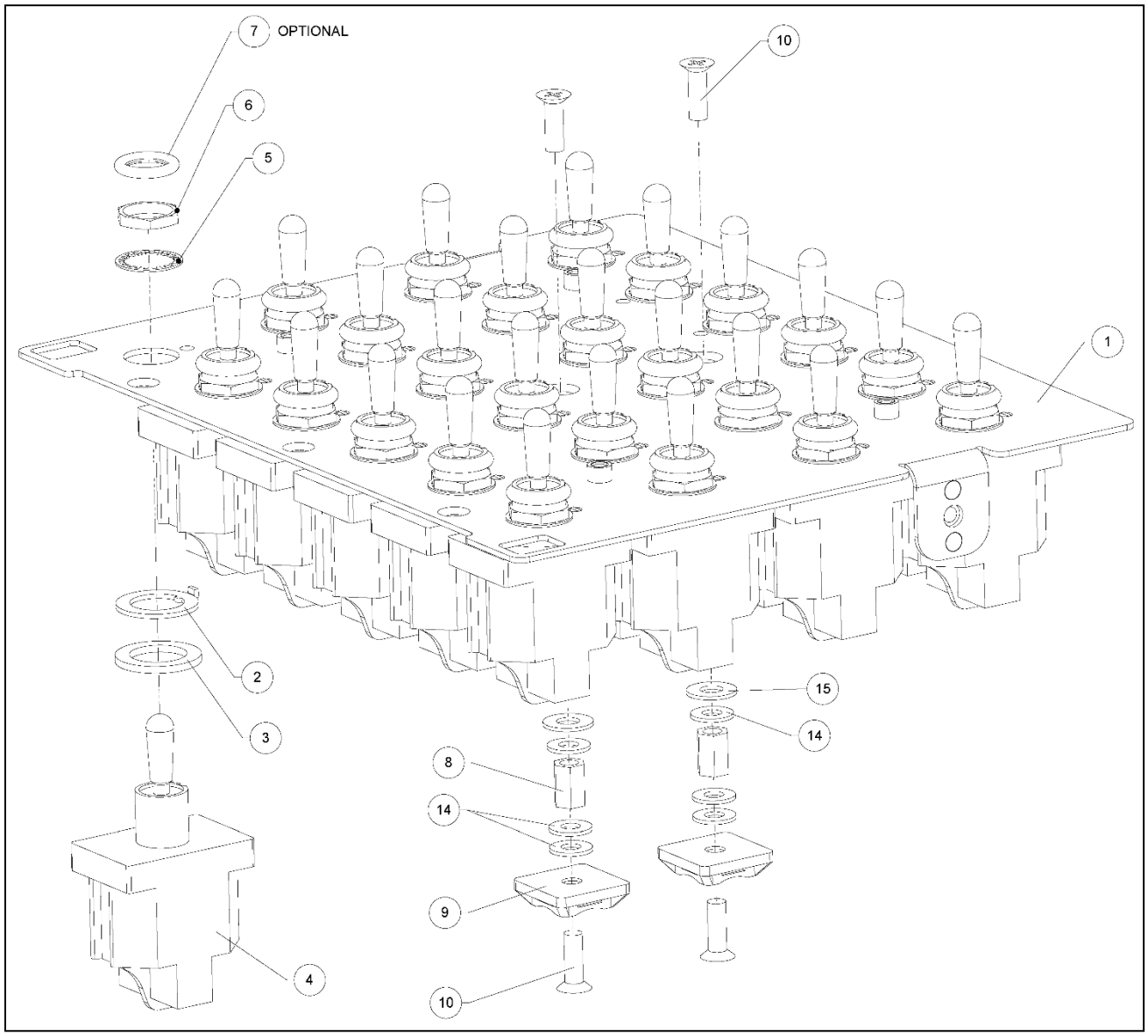

FIGURE 13: P122 CONSOLE SWITCH PLATE ASSEMBLY (G12310-7)

PARTS LIST for Figure 13

I/N	QTY	PART NUMBER	DESCRIPTION
1	1	G12310-7-1	SWITCH PLATE
2	24	PROVIDED WITH SWITCH	LOCK RING
3	24	G12139 or NAS1149F0863P or AN960-816	SPACER
4	24	SEE LIST BELOW	SWITCH
5	24	PROVIDED WITH SWITCH	LOCK WASHER
6	24	PROVIDED WITH SWITCH	NUT, 7/16-32 UNEF
7	24	14603P OR EQUAL	O-RING, 3/8 ID X 9/16 OD
8	2	8C125HF4U6	STANDOFF, #8-32
9	2	561-N3608	CABLE MOUNT
10	4	MS24693S50	SCREW, FH, #8-32 x 1/2
14	6	NAS1149FN832P or AN960-8	WASHER, #8-32 FLAT
15	2	NAS1149F0332P or AN960-10L	WASHER, #10-32 FLAT

APPROVED SWITCH SERIES for Item Number 4 in Figure 13

SERIES NUMBER	TOGGLE	POLES	INDICATIONS
MS24523	Standard	1	2 or 3 position -- 3-pos are Center-OFF
MS24524	Standard	2	2 or 3 position -- 3-pos are Center-OFF
MS24525 *	Standard	4 *	2 or 3 position -- 3-pos are Center-OFF
MS24658	Locking	1	2 or 3 position -- 3-pos are Center-OFF
MS24659	Locking	2	2 or 3 position -- 3-pos are Center-OFF
MS24660 *	Locking	4 *	2 or 3 position -- 3-pos are Center-OFF
MS27406 *	Standard	4 *	3 position, Split Connection in center
MS27407	Standard	2	3 position, Split Connection in center
MS27408	Locking	2	3 position, Split Connection in center
MS27409 *	Locking	4 *	3 position, Split Connection in center

* Note: Use of 4-pole switches is subject to space constraints

Section 5.0 P132 Console Removal, Inspection and Re-Installation

5.1 P132 Console Removal

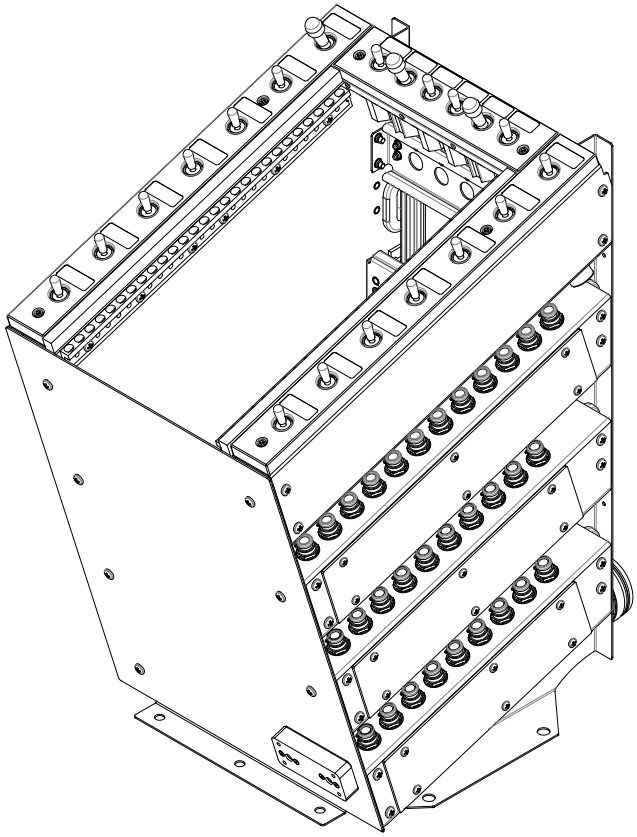

FIGURE 14: P132 CONSOLE ASSEMBLY (G10251)

5.1.1 Remove the hardware securing the console to the floor and to the Instrument Panel Support Structure.

5.1.2 Disconnect all airframe wires and cables from the console, including the circular connectors, the bus wires at the bottom, and any airframe wires that may be connected directly to switches or breakers on the console. For any discrete airframe wires, note which terminals of which devices they were connected to.

5.1.3 Remove the console from the aircraft.

5.2 P132 Console Inspection

CAUTION

The console contains circuit board assemblies, and diodes mounted on the connector bracket. Like most electronic devices, these may be subject to damage by electrostatic discharge (ESD). Installation or removal of the diodes or circuit boards should follow the guidelines in AC43.13-1b Par 12-2 and AC 43-206 Par 905, which are summarized below:

When removing ESD-sensitive equipment from the aircraft, the aircraft should be grounded and power removed. Prior to disconnecting the cables from the equipment, personnel should touch the metal case of the equipment to equalize any electrostatic potential. Once the cables are disconnected, conductive dust caps or conductive grid tape should be placed on the connector receptacles.

Circuit cards and components should be packaged in ESD-protective packaging prior to leaving the ESD workstation. Static shielding bags which have a static-dissipative inner layer and a conductive outer layer are used for this purpose. They should be noncorrosive and should zip-lock or heat seal closed. Cushion wrap (bubble wrap) used around circuit cards should also be made of static-dissipative material.

5.2.1 Inspect the metal parts of the console for cracks or excessive corrosion, including the console side walls, Aft wall, and switch and breaker mounting rails. If any of the parts are cracked or excessively corroded (refer to Section 3.1.3c for corrosion limits) they must be removed and replaced.

5.2.2 The metal parts of the aft wall, the switch and breaker mounting rails, the lighting overlays and the diode and power terminal block rails may be replaced in the field. However, replacing either of the sidewalls requires major wiring work. If either sidewall requires replacement, the console should be returned to the factory for service.

5.2.3 Inspect all fasteners and hardware for security and condition.

5.2.4 Refer to Section 6.0 for inspection of the console and airframe connectors and wiring.

5.3 Cyclic Stick Inspection

5.3.1 Cyclic Sticks should be removed and replaced IAW the applicable Airbus Helicopters Aircraft Maintenance Manual. For AS350B2, AS350B3 and H125 models this may be found in AMM Chapter 67-11. For all other AS350 this may be found in MET 67-10.

5.3.2 Remove G12324 or G12426 LH Cyclic Stick from the co-pilot side IAW the applicable Airbus Helicopter Aircraft Maintenance Manual.

5.3.3 Inspect co-pilot cyclic stick stand (ref. p/n 350A27159403) for locator rivet, installed per Service Bulletin GA107-7 Rev --, or later approved revision, shown in Figure 15. If the rivet is not present, install the rivet per Section 2.3 of Service Bulletin GA107-7 Rev --, or later approved revision.

Note: Confirm the Airbus co-pilot cyclic stick stand (P/N 350A27159403) has had any applicable Airbus Service bulletins completed.

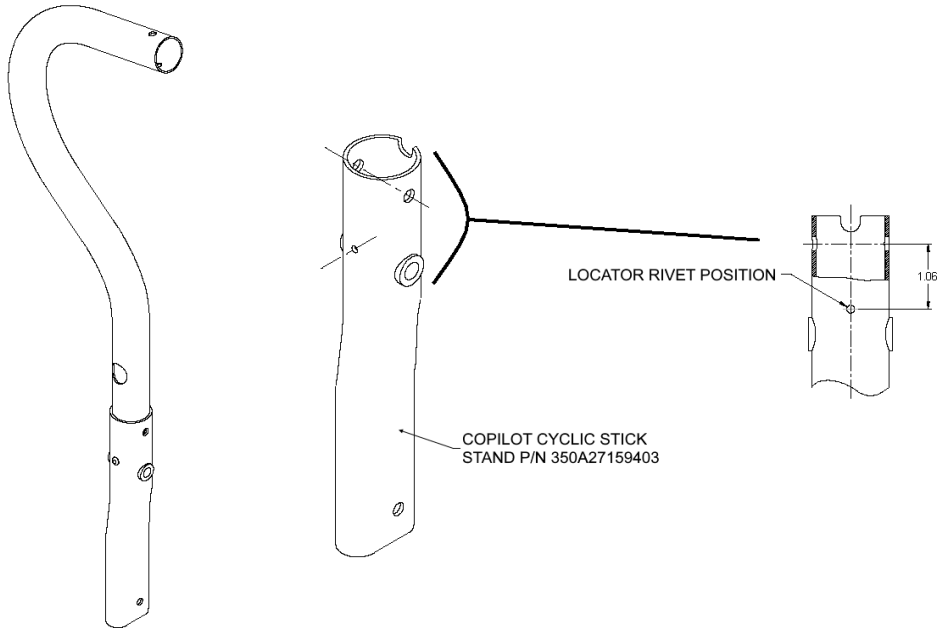

FIGURE 15: SB GA107-1 LH CYCLIC STAND LOCATOR RIVET

5.3.4 Inspect the G12324 or G12426 LH Cyclic Stick for the installation of a locator rivet as shown in Figure 16.

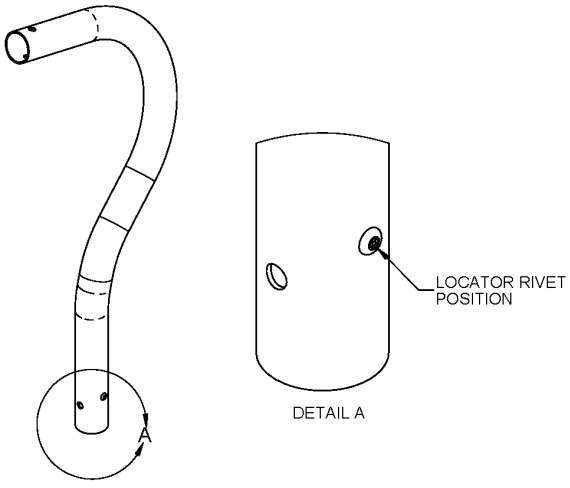

FIGURE 16: LH CYCLIC STICK LOCATOR RIVET

5.3.5 If no rivet is present, install one MS20600AD-4-1 or CR3212-4-1 in pre-drilled hole, as shown in Figure 17.

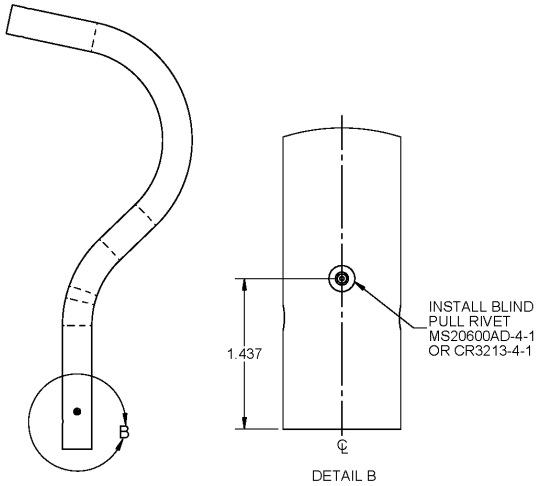

FIGURE 17: RIVET INSTALLATION

5.3.6 Install the G12324 or G12426 LH Cyclic Stick IAW with Service Bulletin GA107-7 Rev --, or later approved revision, and the applicable Airbus Helicopter Aircraft Maintenance Manual.

5.3.7 Perform the close out IAW with the applicable Airbus Helicopter Aircraft Maintenance Manual.

5.4 P132 Console Reinstallation

5.4.1 Re-connect all cables to the console, including the circular connectors, the bus wires, and any discrete airframe wires that are connected directly to switches or breakers on the console.

5.4.2 Mount the console in position as before and reinstall the mounting hardware at the attachment points in the floor and the Instrument Panel Support Structure.

5.4.3 Install collective hold-down strap (350A27-3107-126) onto collective hold-down mount (G12136) located on aft wall of console using (2) AN3-3A bolts and (2) NAS1149F0332P washers (see figure below). To insure that the strap does not inadvertently hook the collective during normal operation, the strap should be formed as shown in the figure. The dimensions shown are approximate and are to be used as a guide, as each console installation will vary slightly, requiring the strap to be formed to match the installation. When formed correctly, the strap will naturally touch the console aft wall, requiring it to be flexed in order to hook the collective. Be sure to adjust the strap height as required in Maintenance Manual 67.10.00.501 Section 3.3. Maintain a minimum gap of .118 inches (3mm) between the end of the hooking lock and the strap.

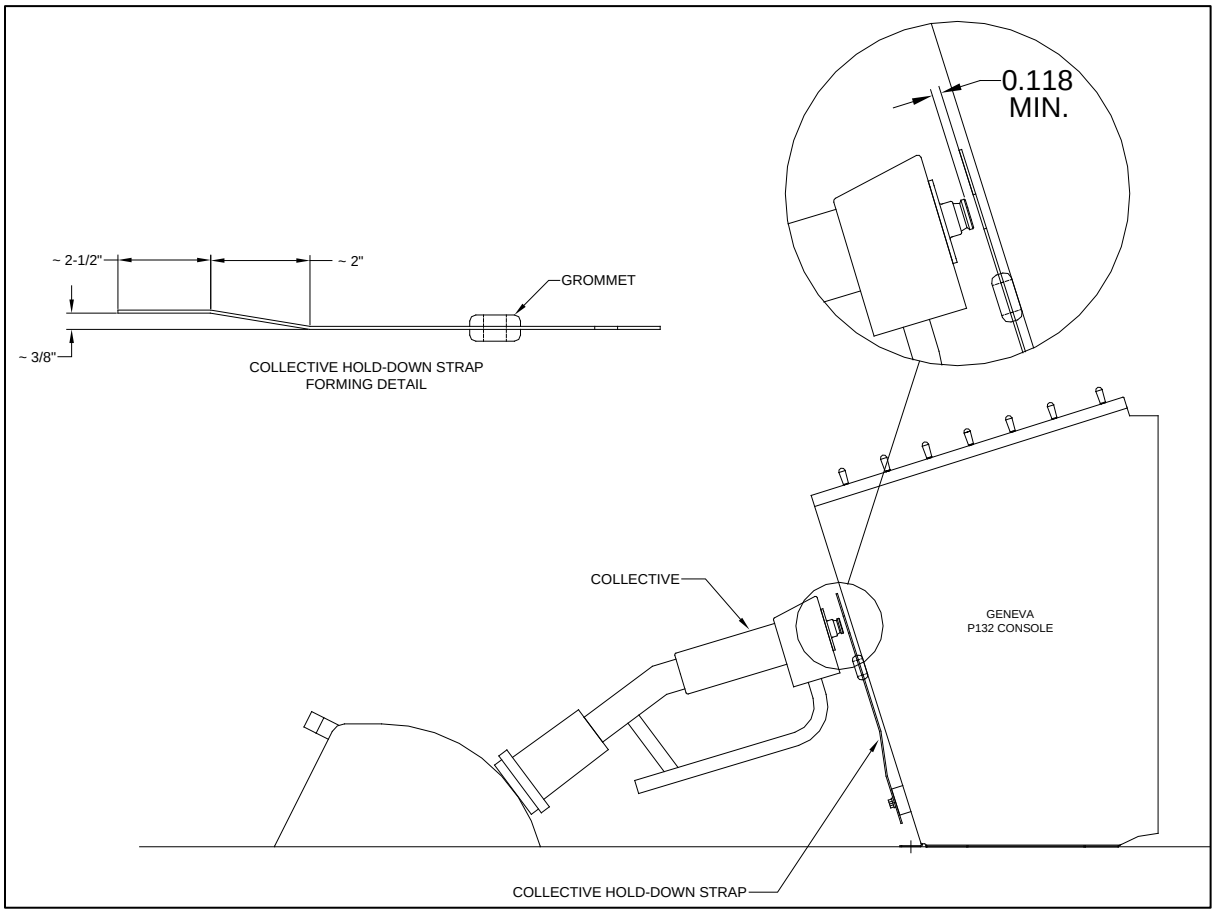

FIGURE 18: COLLECTIVE HOLD-DOWN STRAP INSTALLATION

Optional use of Spring-Loaded Strap

5.4.4 At the installers discretion, the installer may choose in place of the above listed modification to use an Airbus Helicopters “spring-loaded” style strap, Kit # 350A27-0350-0071. See Airbus Helicopters IPC section 67.10.20 for a detailed parts list of the kit. The spring-loaded strap assembly is installed on to the G12136 mounting block.

5.4.5 Airbus Helicopters Service Bulletin SB 67-00-37 (SB) requires inspecting the gap between the strap and the hooking lock to the same specification. This STC requires compliance with the SB. However, this STC allows for the substitution of the Eagle Copters Hooking Lock in place of the part number listed in the SB at the installer’s discretion. For p/n 350A27-3155-22 use G12733. For p/n 350A27-3155-21 or 350A08-2363-20 use G12957.

5.5 P132 Console Post MOD 350A07-4280 Reinstallation

5.5.1 These instructions are for installing the P132 Console into aircraft that are post MOD 350A07-4280.

5.5.2 Refer to Figure 19 to Figure 21 for installing the P132 Console.

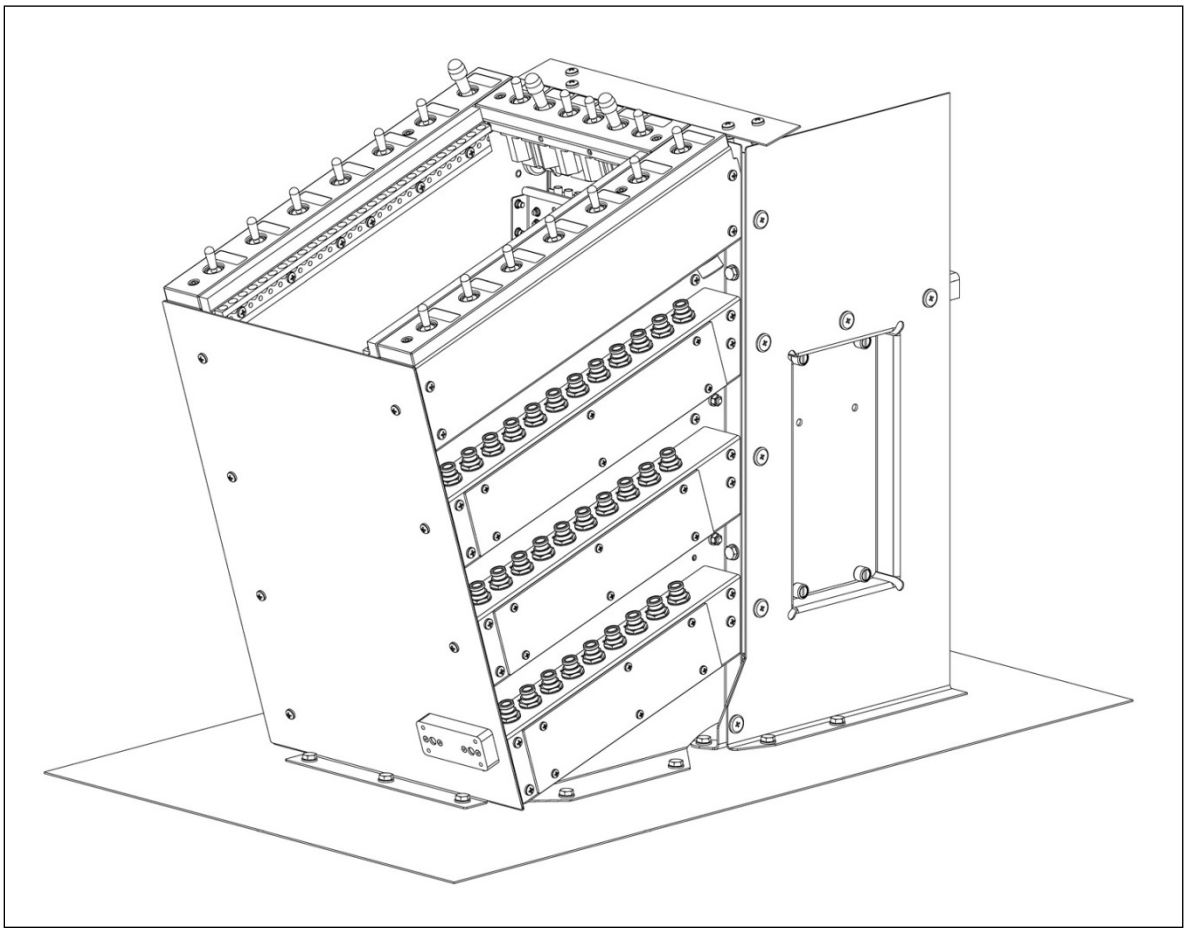

FIGURE 19: P132 CONSOLE INSTALLED

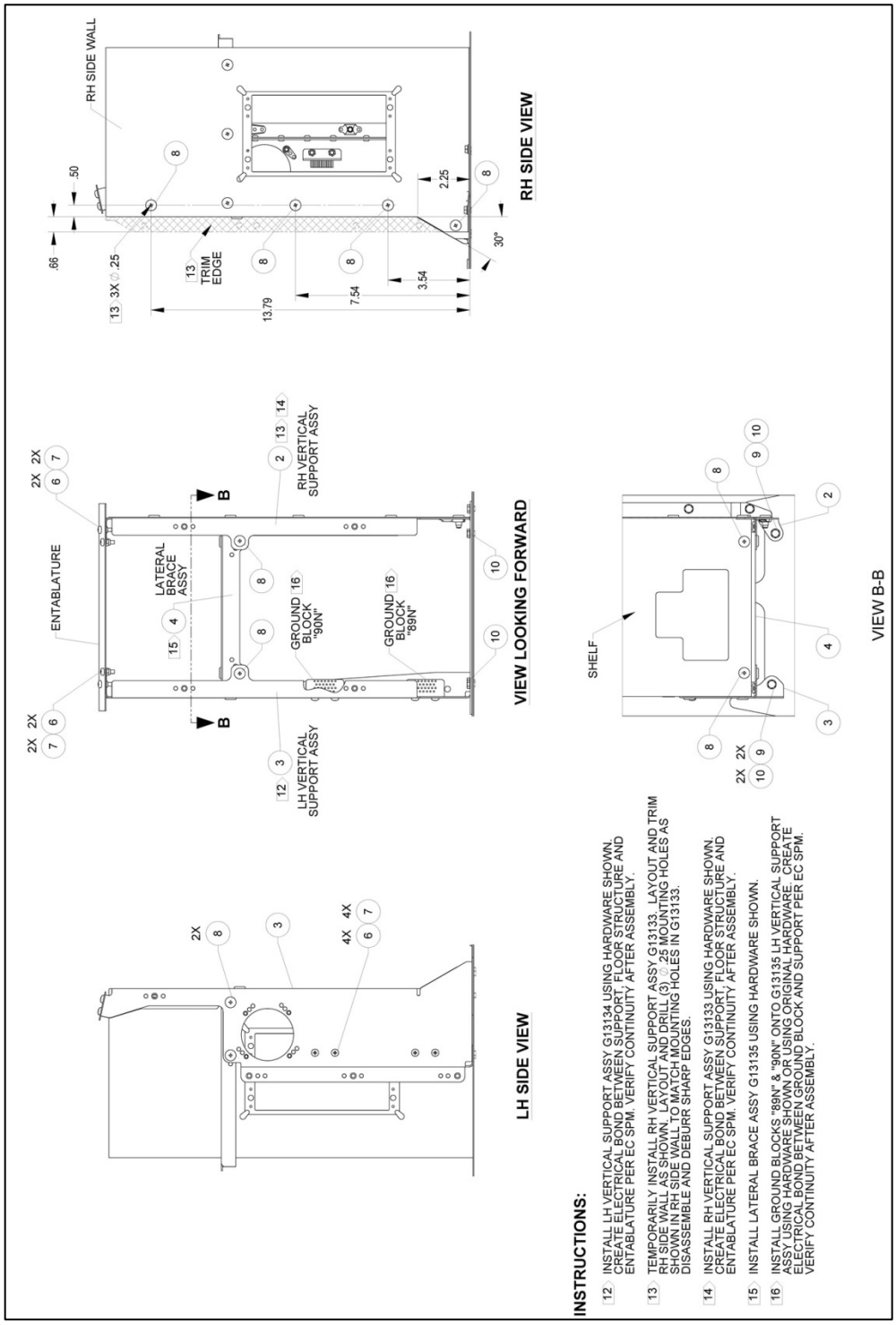

FIGURE 20: SUPPORT STRUCTURE INSTALLATION

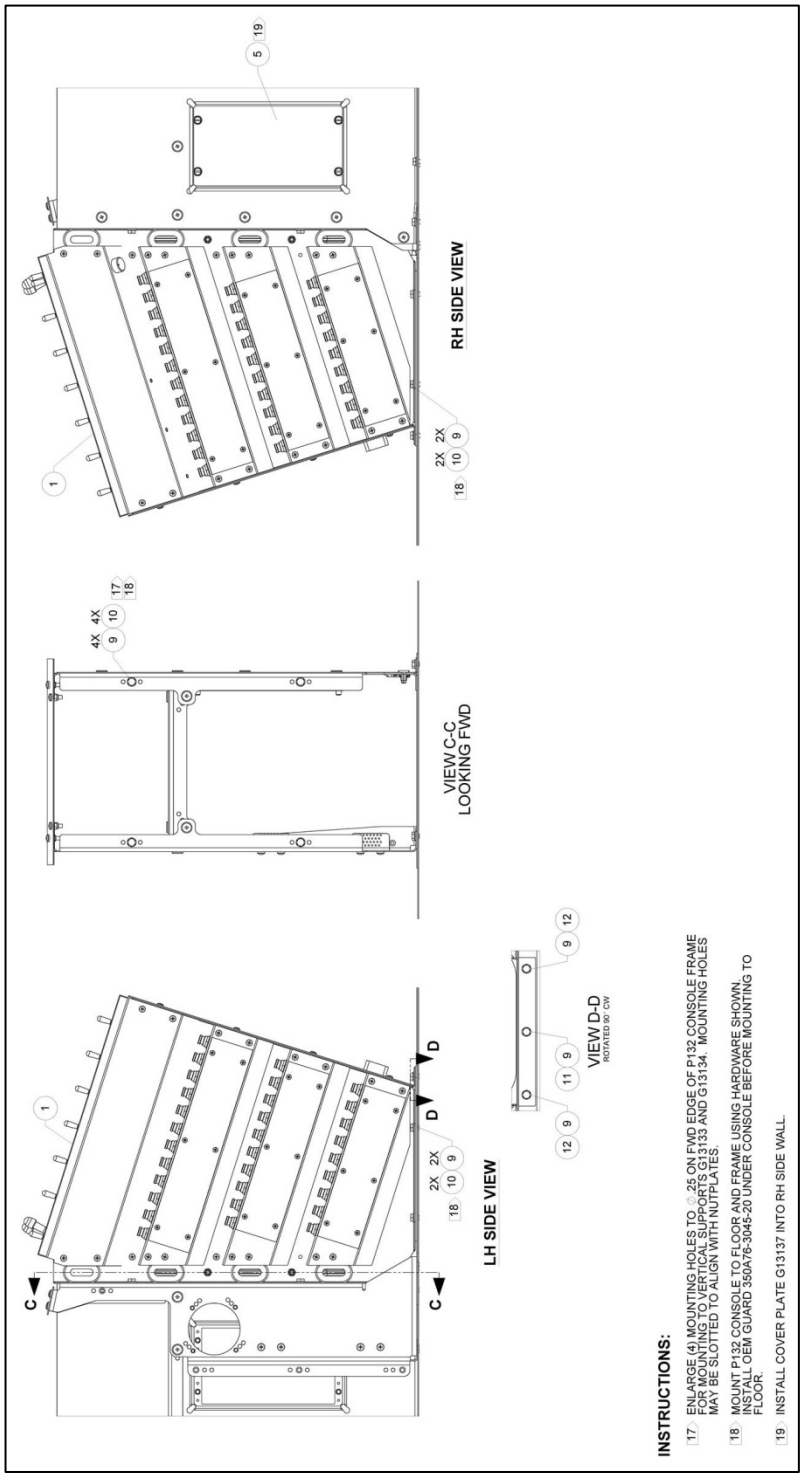

FIGURE 21: P132 CONSOLE INSTALLATION

Parts List for FIGURE 19 TO FIGURE 21

ITEM NO.	QTY.	PART NUMBER	VENDOR	DESCRIPTION
12	2	22208BC050016L	EUROCOPTER	BOLT, 5MM X 16MM
11	1	22208BC050014L	EUROCOPTER	BOLT, 5MM X 14MM
10	11	22208BC050012L	EUROCOPTER	BOLT, 5MM X 12MM
9	14	23111AG050LE	EUROCOPTER	WASHER, 5MM FLAT
8	10	A0164TK050S012X	EUROCOPTER	SCREW, TI, M5 X 12MM
7	8	22542K040	EUROCOPTER	LOCKNUT, M4
6	8	22272BC040012L	EUROCOPTER	PAN HEAD SCREW M4 X 12MM
5	1	G13137	GENEVA	COVER PLATE
4	1	G13135	GENEVA	LATERAL BRACE ASSY
3	1	G13134	GENEVA	LH VERTICAL SUPPORT ASSY
2	1	G13133	GENEVA	RH VERTICAL SUPPORT ASSY
1	1	G10251	GENEVA	P132 AVIONICS CONSOLE

5.6 P132 Console Illustrated Parts List

See the parts table following Figure 32 for the item numbers shown in Figure 22 through Figure 32.

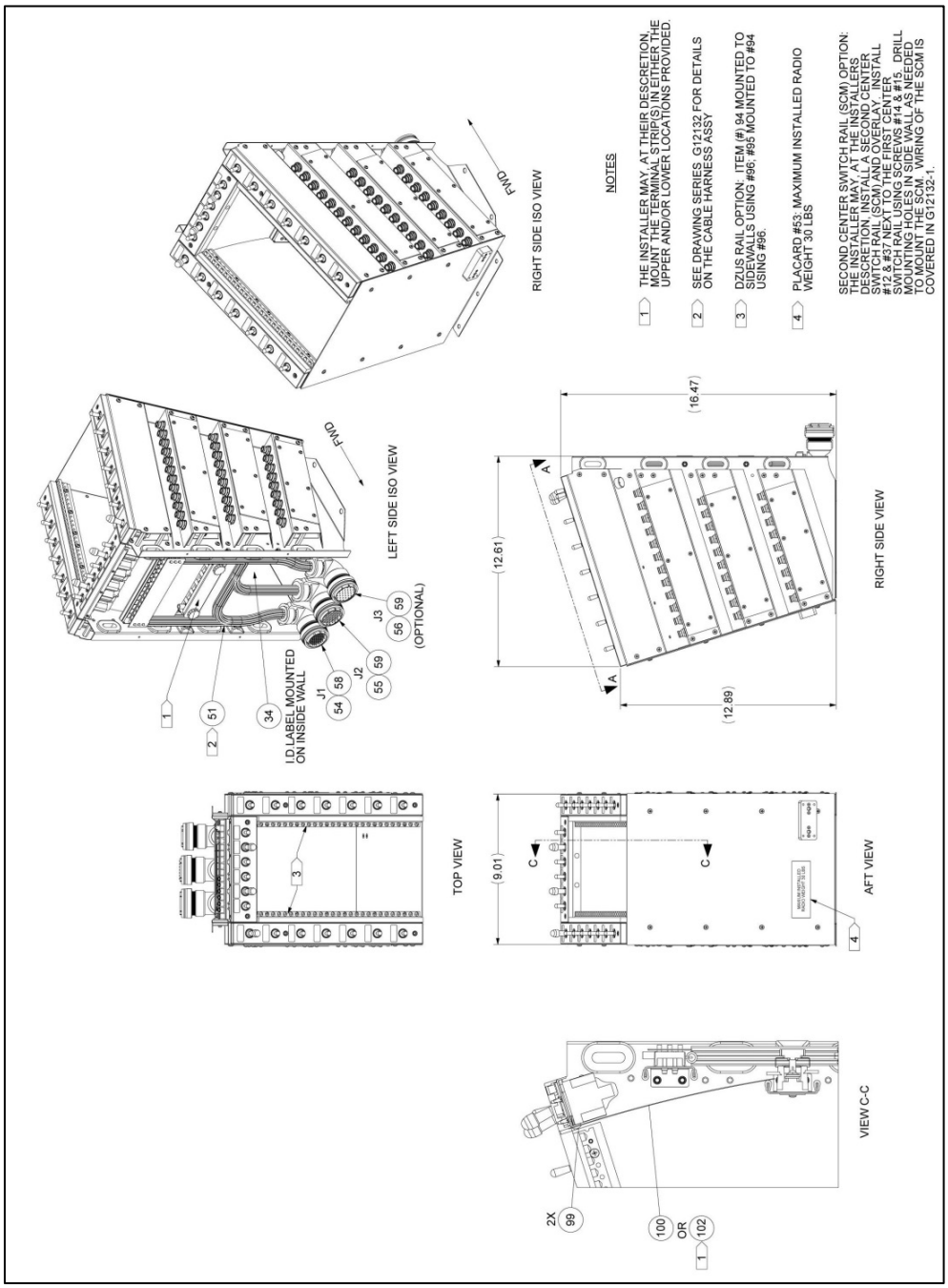

FIGURE 22: P132 CONSOLE, ASSEMBLED (G10251)

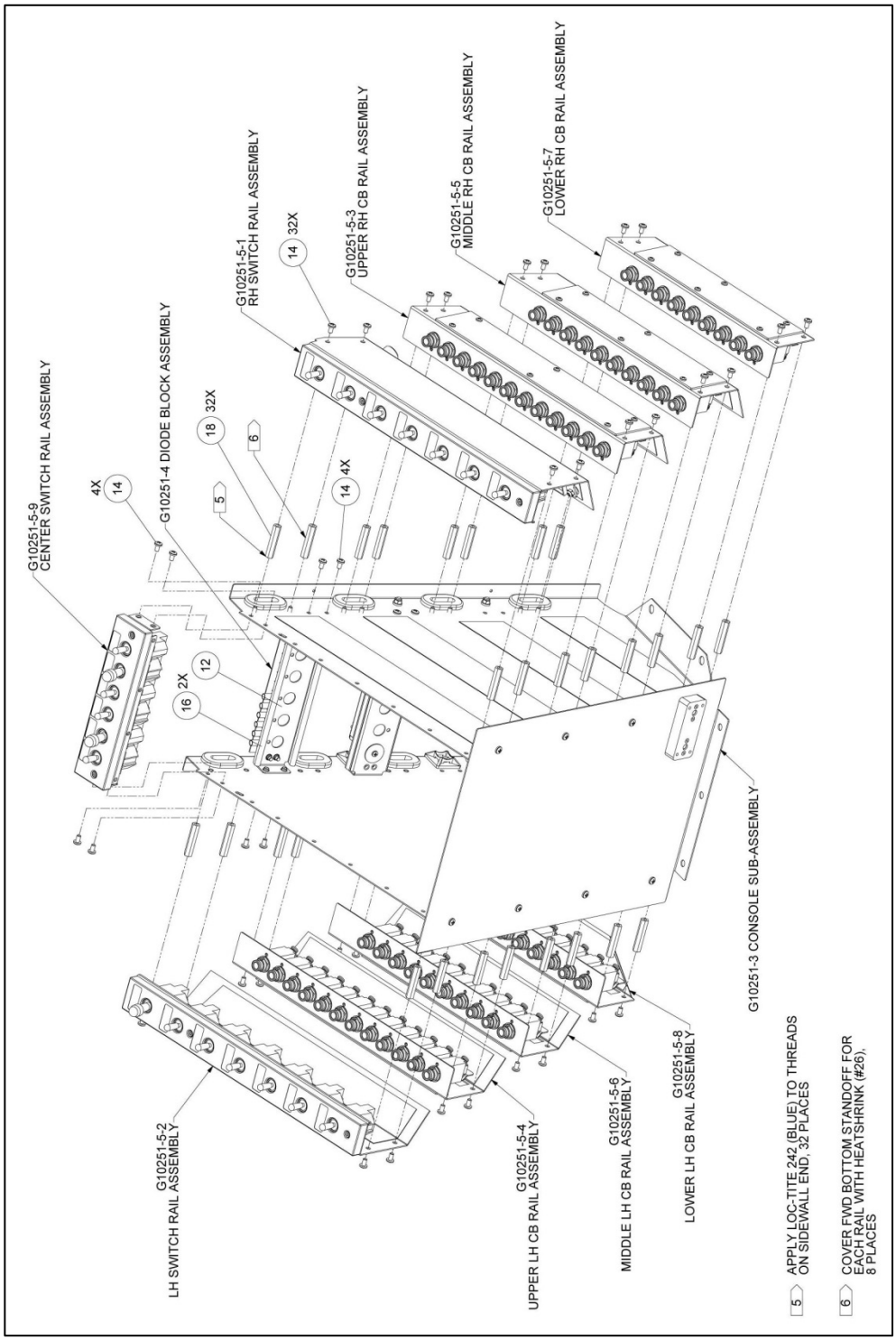

FIGURE 23: P132 CONSOLE, ASSEMBLY DETAILS (G10251)

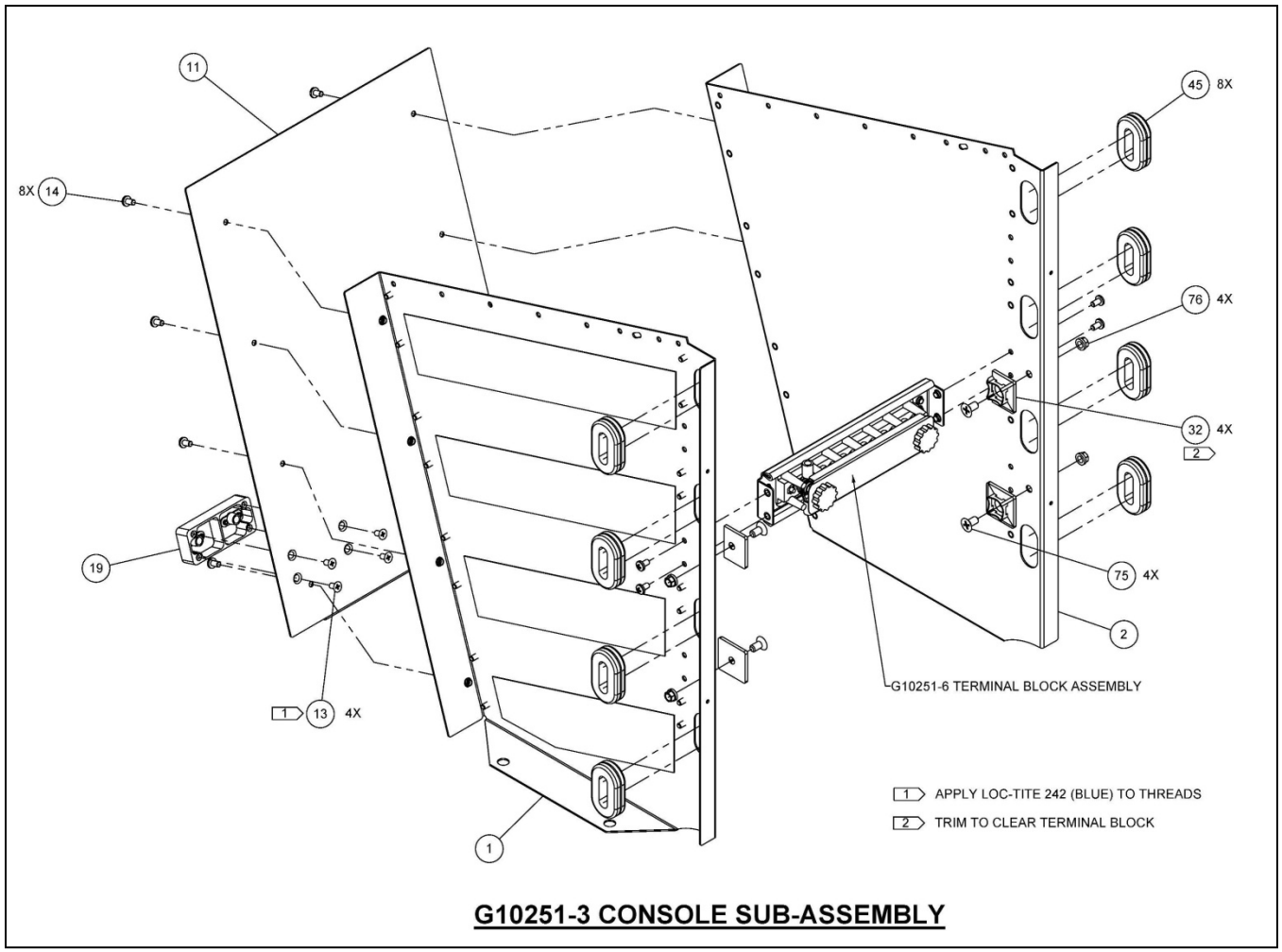

FIGURE 24: P132 CONSOLE, PRIMARY FRAME SUB-ASSEMBLY (G10251-3)

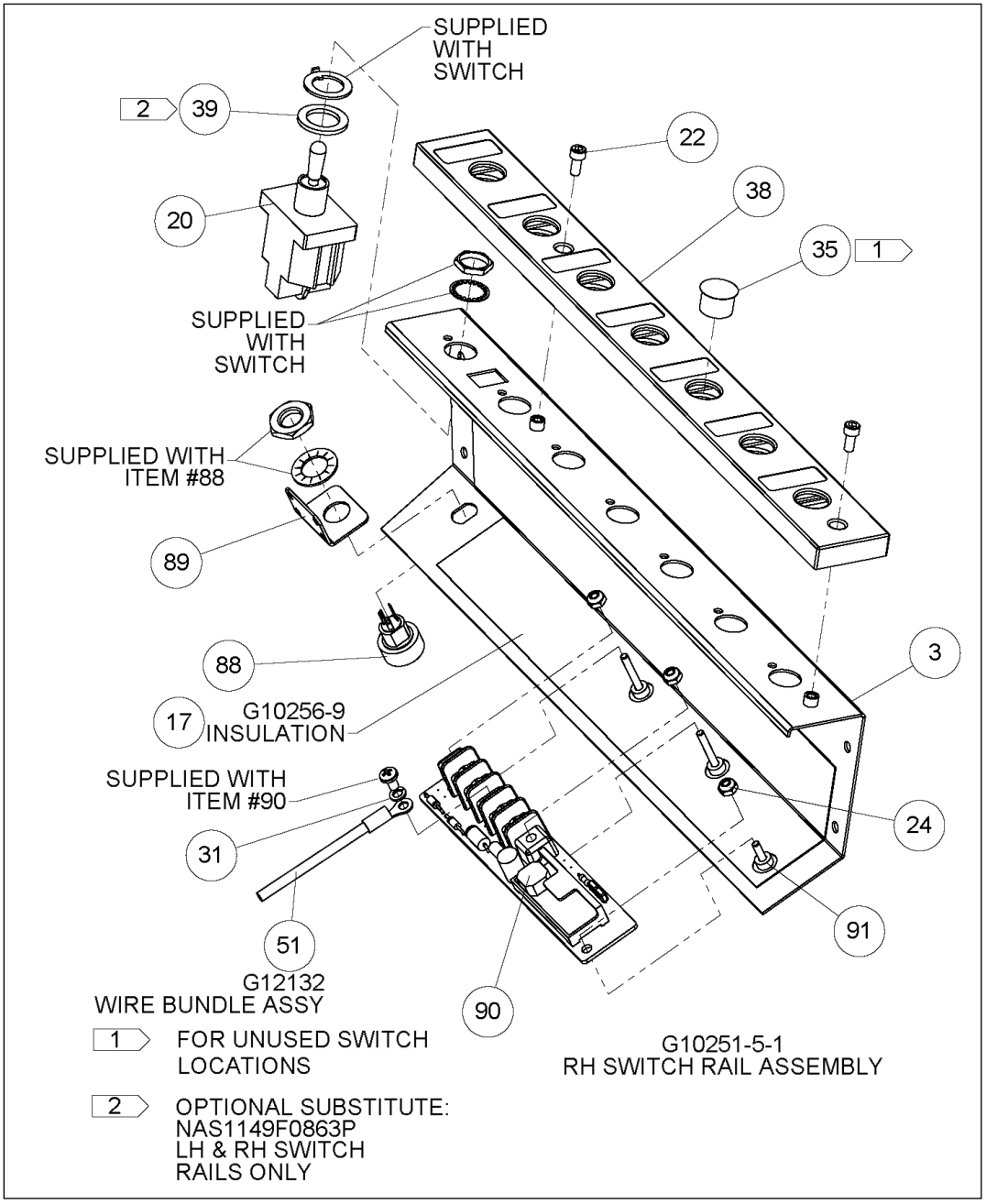

FIGURE 25: P132 CONSOLE, RH SWITCH RAIL SUB-ASSEMBLY (G10251-5-1)

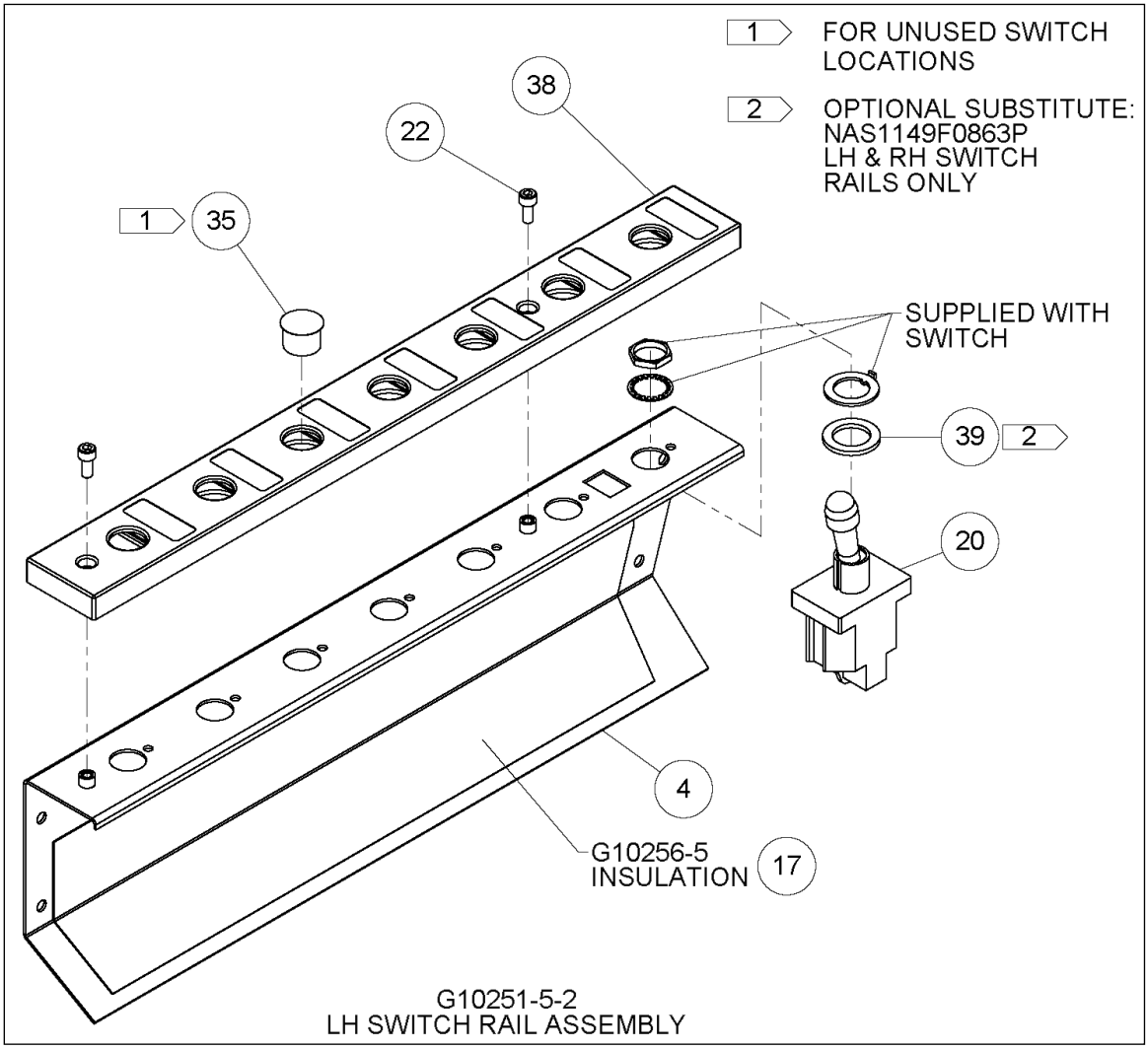

FIGURE 26: P132 CONSOLE, LH SWITCH RAIL SUB-ASSEMBLY (G10251-5-2)

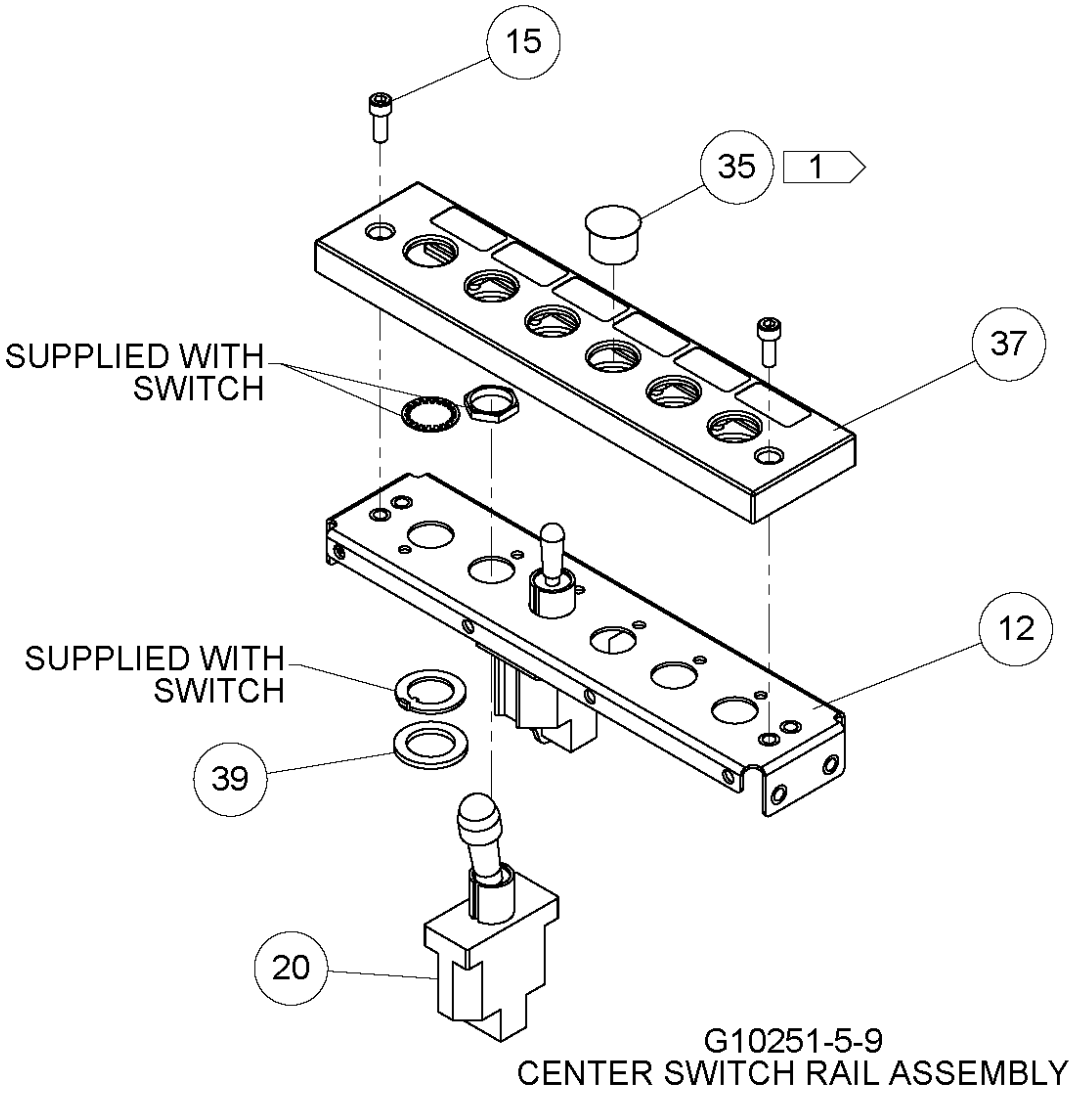

FIGURE 27: P132 CONSOLE, CENTER SWITCH RAIL SUB-ASSEMBLY (G10251-5-9)

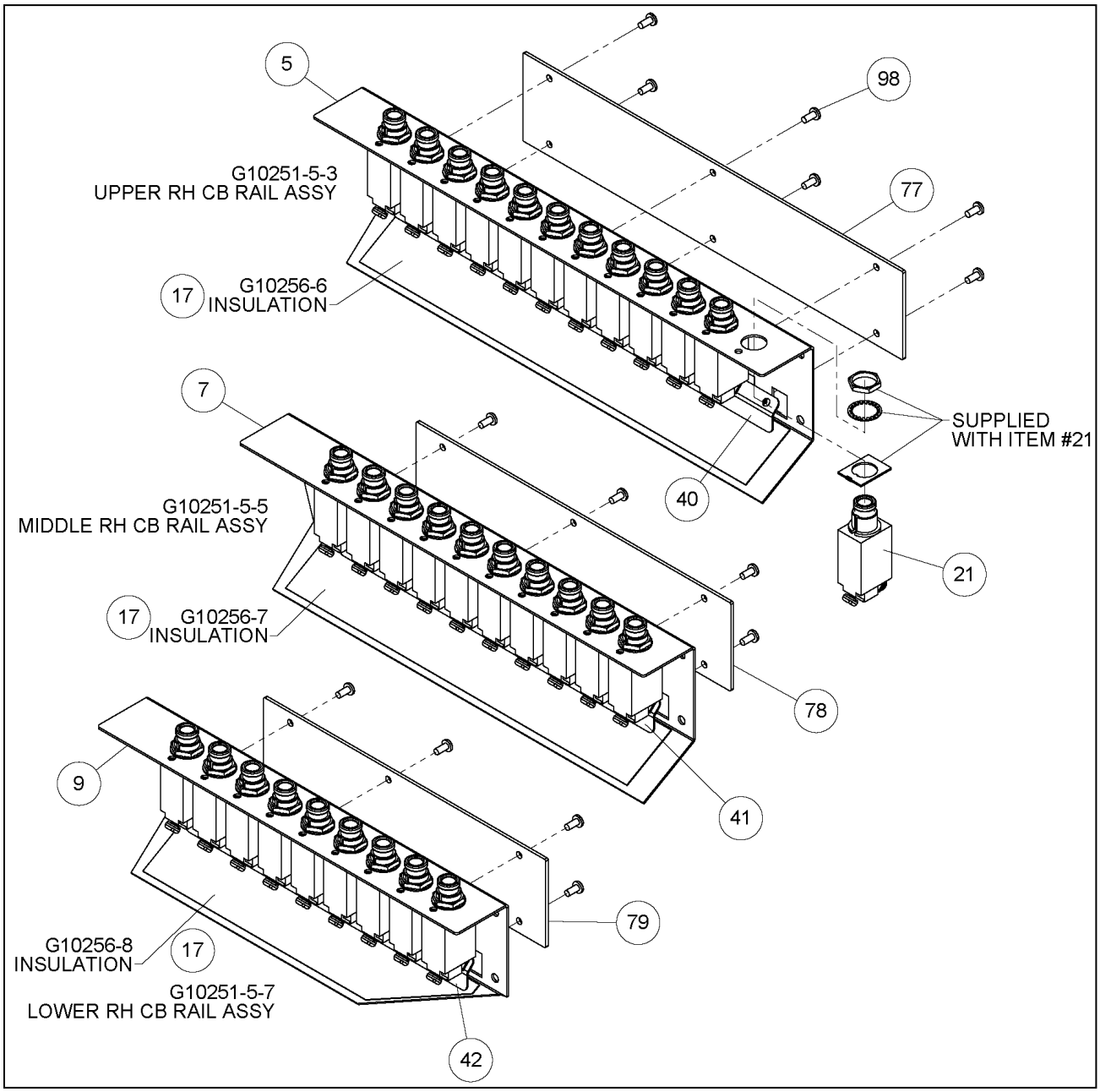

FIGURE 28: P132 CONSOLE, RIGHT SIDE CB RAIL SUB-ASSEMBLIES (G10251-5-3, -5, -7)

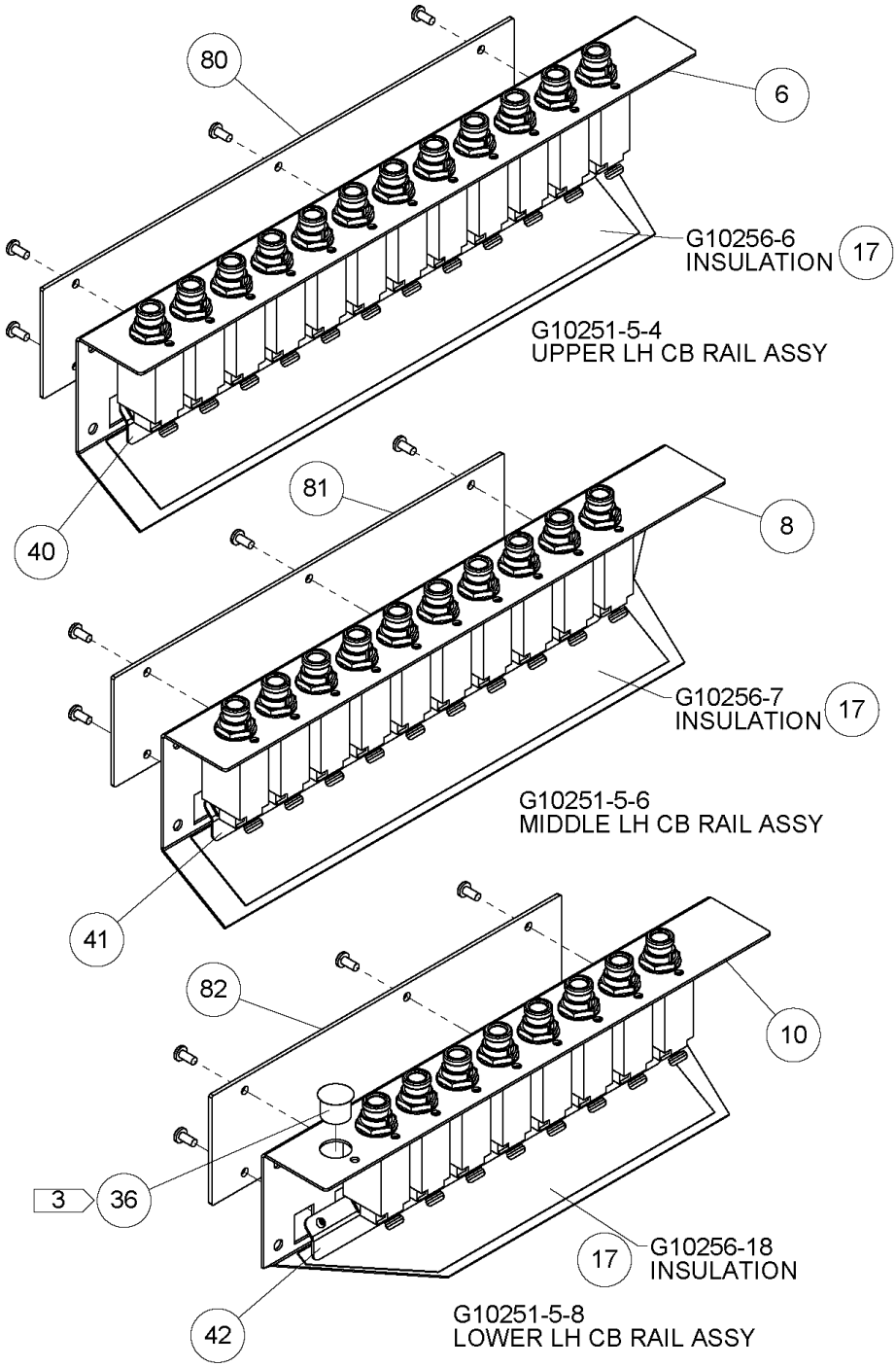

FIGURE 29: P132 CONSOLE, LEFT SIDE CB RAIL SUB-ASSEMBLIES (G10251-5-4, -6, -8)

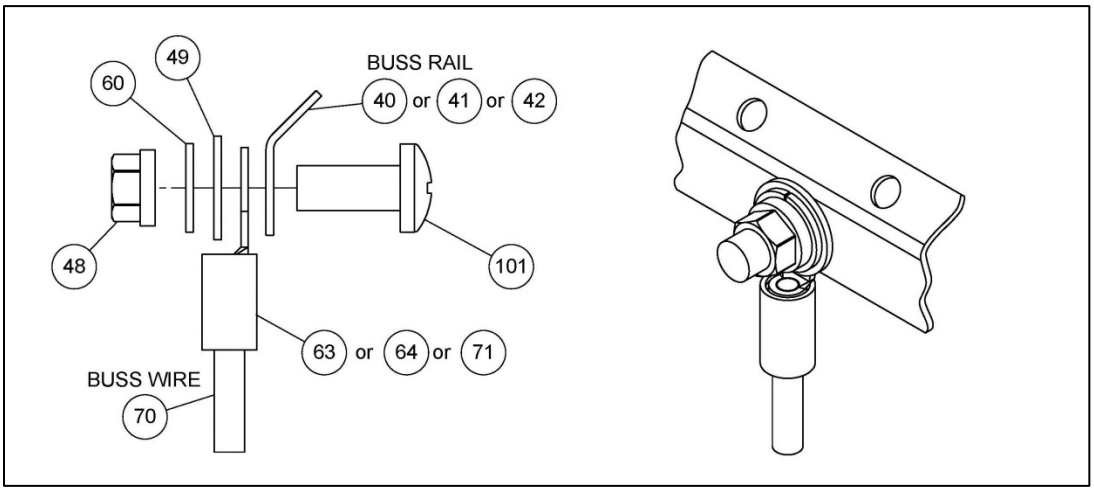

FIGURE 30: BUS RAIL WIRE CONNECTION (G10251-5)

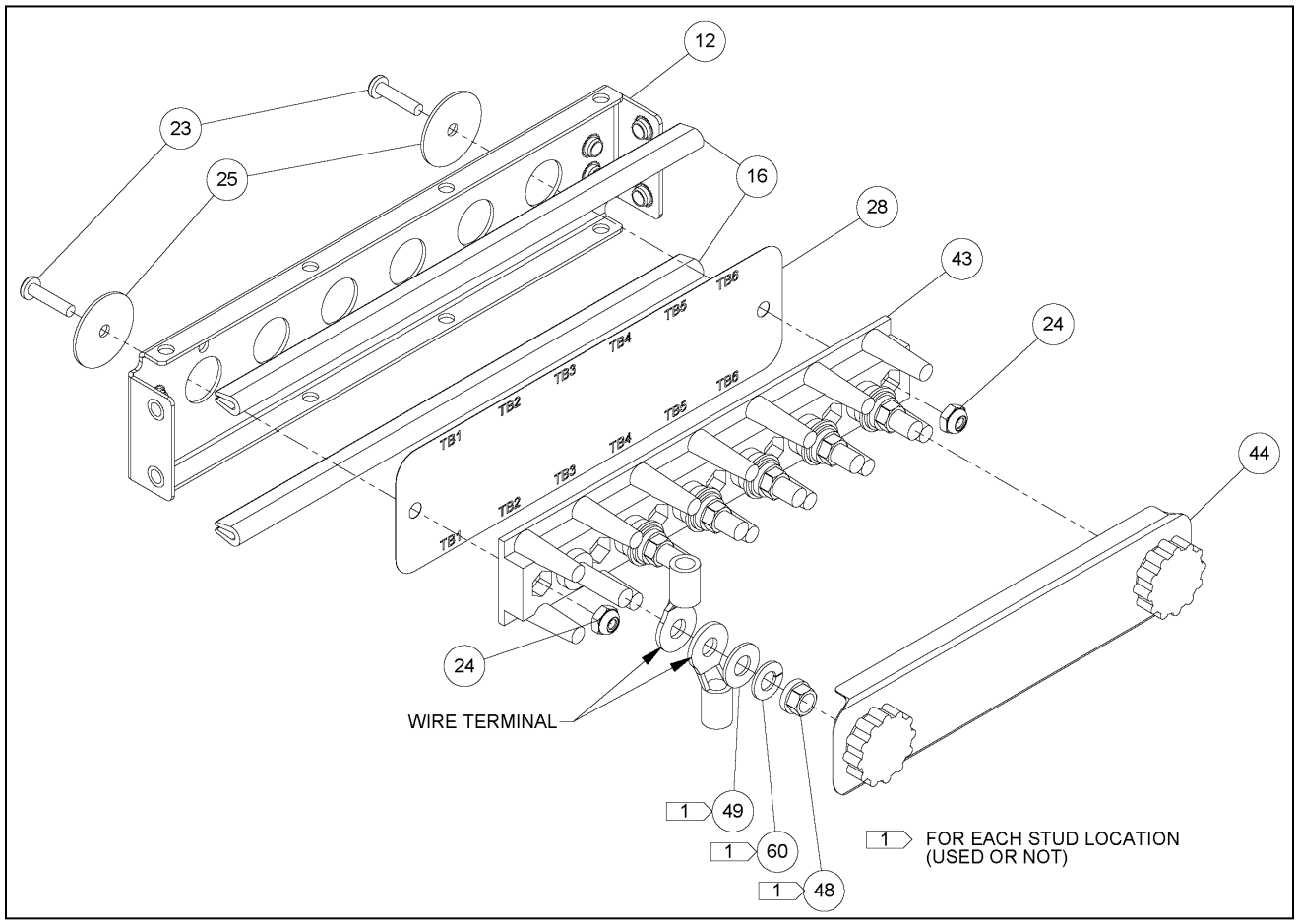

FIGURE 31: P132 CONSOLE, POWER TERMINAL BLOCK RAIL SUB-ASSEMBLY (G10251-6)

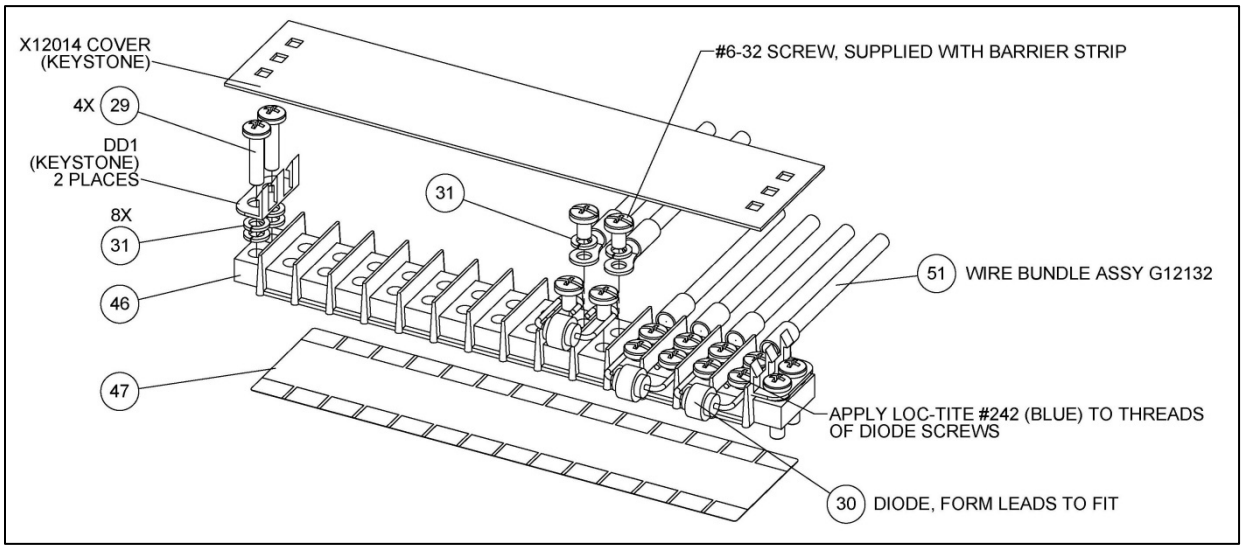

FIGURE 32: P132 CONSOLE, DIODE BLOCK SUB-ASSEMBLY (G10251-4)

NOTE: Item numbers in **PARTS LIST for Figure 22 through Figure 32** correspond to Figure 22 through Figure 32 only.

PARTS LIST for Figure 22 through Figure 32

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	G10257-1	Side Wall Assembly, RH
2	1	G10257-2	Side Wall Assembly, LH
3	1	G10253-1	Switch Rail, RH
4	1	G10253-2	Switch Rail, LH
5	1	G10253-3	CB Rail, Right Top
6	1	G10253-4	CB Rail, Left Top
7	1	G10253-5	CB Rail, Right Middle
8	1	G10253-6	CB Rail, Left Middle
9	1	G10253-7	CB Rail, Right Bottom
10	1	G10253-8	CB Rail, Left Bottom
11	1	G10252	Aft Wall
12	3	G10255	Switch Bracket
13	4	6C25PFHS or MS24693S24	Screw, #6-32 x 1/4", Phil 100° Flat
14	52	6C25PPMSB or 35206-226	Screw, #6-32 x 1/4", Phil Pan, Black
15	2	6C37SHCA	Screw, #6-32 x 3/8", Socket Head Cap, Black
16	30"	39-311 or SL2-0025-ER0201	Linear Edge Grommet, 1/4"

PARTS LIST for Figure 22 through Figure 32

ITEM	QTY	PART NUMBER	DESCRIPTION
17	14	SEE DRAWING	FORMEX INSULATION, SELF-ADHESIVE
18	32	6C125HF4U6	Standoff, F-F, #6-32 x 1.25"L, 1/4" Hex
19	1	G12136	Collective Hold-Down Mount
20	20	SEE LIST BELOW	Toggle Switch, Environmentally Sealed
21	62	SEE LIST BELOW	Circuit Breaker
22	4	6C31SHCA	Screw, #6-32 x 5/16", Socket Head Cap, Black
23	4	MS35206-217	Screw, #4-40 x 1/2", Phil Pan
24	5	MS21044N04	Lock Nut, #4-40, Nylon
25	2	4N75FENZZ	Washer, Flat, 1/8"ID x 3/4"OD
26	A/R	FP-301 1/4" BL	Heat Shrink Tubing, 1/4" Black
28	1	G10283-2	Placard, Power Terminal Block
29	4	6C56PPMS	Screw, #6-32 x 9/16", Phil Pan
30	6	MR750 MR751, MR752, MR754, MR760, 6A05-T, 6A1-T, 6A2-T, 6A4-T, 6A6-T, 6A8-T, or 6A10-T	Diode, 6A, 50V (or higher)
31	22	MS35338-136 or 6NSLWS	Lock Washer, #6 Internal
32	4	FTH-7A-RT-UVB-C	Cable Mount, 1", Adhesive
35	6	2643 or 8603	Hole Plug, 1/2"
36	22	2633	Hole Plug, 7/16"
37	1	G10270-1	Switch Overlay, Center
38	2	G10270-2	Switch Overlay, Side
39	20	G12139	Switch Spacer (Any Switch Rail)
39	14	NAS1149F0863P	Switch Spacer (Alternate, Side Rails Only)
40	2	G12135-12	Bus Bar, Top Row
41	2	G12135-10	Bus Bar, Middle Row
42	2	G12135-9	Bus Bar, Bottom Row
43	1	MS27212-2-6	Terminal Block, 6x #10-32 Stud, 3/4"C-C
44	1	MS18029-2S-6	Power Terminal Block Cover
45	8	MS35489-20	Grommet
46	1	TB100-14B or 1-1546306-4	Terminal Strip, 14 Position, 3/8" C-C

PARTS LIST for Figure 22 through Figure 32

ITEM	QTY	PART NUMBER	DESCRIPTION
47	1	G10283-3-STD or G10283-3-B2DB or G10283-3-B2INV or G10283-3-B3 or G10283-3-B3DB or G10283-3-B3e-MB	Placard, Diode Block Label (specific to the particular Drawing Set)
48	A/R	MS21042-3	Lock Nut, #10-32
49	A/R	NAS1149F0332P	Flat Washer, #10
50	6	MS35207-262	Screw, #10-32 x 7/16", Phil Pan
51	1	G12132	Cable Harness
53	1	G10283-1	Placard, Maximum Radio Weight
54	1	MS3471L22-55P	Connector, 55 Pins (J1)
54	1	MS3476L22-55S	Connector, 55 Sockets (P1)
55	1	MS3471L24-31P	Connector, 31 Pins (J2)
55	1	MS3476L24-31S	Connector, 31 Sockets (P2)
56	1	MS3471L24-31S	Connector, 31 Sockets (J3)
56	1	MS3476L24-31P	Connector, 31 Pins (P3)
58	1	M85049/51-1-22N	Backshell, Console Connector
58	1	M85049/52-1-22N	Backshell, Airframe Connector
59	1	M85049/51-1-24N	Backshell, Console Connector
59	1	M85049/52-1-24N	Backshell, Airframe Connector
60	A/R	MS35338-43	Lock Washer, #10 Internal
63	A/R	33460	LUG, #10 RING, 8 GA WIRE
64	A/R	36160	BLUE CRIMP TERMINAL, 14-16ga wire to #10 screw
65	A/R	36152	RED CRIMP TERMINAL, 16-22ga wire to #6 screw
66	A/R	320559	RED CRIMP TERMINAL, 16-22ga wire butt splice
67	A/R	326882	BLUE CRIMP TERMINAL, 14-16ga wire to #6 screw
68	A/R	320562	BLUE CRIMP TERMINAL, 14-16ga wire butt splice
69	A/R	35149	YELLOW CRIMP TERMINAL, 10-12ga wire to #6 screw
71	A/R	31805	YELLOW CRIMP TERMINAL, 10-12ga wire to #10 screw
75	4	MS24693S270	Screw, #10-32 x 3/8", Phil 100° Flat
76	4	MS21042L3	Lock Nut, #10-32, Lubed
77	1	G10283-4	Placard, CB Rail, Top Right
78	1	G10283-5	Placard, CB Rail, Middle Right
79	1	G10283-6	Placard, CB Rail, Bottom Right

PARTS LIST for Figure 22 through Figure 32

ITEM	QTY	PART NUMBER	DESCRIPTION
80	1	G10283-7	Placard, CB Rail, Top Left
81	1	G10283-8	Placard, CB Rail, Middle Left
82	1	G10283-9	Placard, CB Rail, Bottom Left
85	3	18RA-251T	TAB TERMINAL, .250 F.I.
86	3	18RA-2577	FEMALE TERMINAL, .250 F.I.
88	1	G12132-24	Dimmer Pot Assembly
89	1	G12298	Wire Shield
90	1	G12301	Dimmer Control PCB Assembly
91	3	875	Spacer, #4 x 1/8"L, Nylon
94	2	G12307	Dzus Rail Shim (optional)
95	2	G12948-27 or G12948-23	Dzus Rail (optional)
96	24	MS35206-228	Screw, #6-32 x 3/8", Phil Pan
98	36	4C25PPMSB or 35206-213	Screw, #4-40 x 1/4", Phil Pan, Black
99	2	0304	ARROW CLIP (HEYCO)
100	1	G13117	WIRE SHIELD (FORMEX)
101	A/R	MS35207-262	SCREW, PANHEAD, #10-32 X 7/16
102	1	G13129	WIRE SHIELD (FORMEX) (optional in place of G13117)

CIRCUIT BREAKER LIST for Item Number 21 in Figure 22 through Figure 32

RATING	PART NUMBER
0.5A	7274-2-1/2, 7277-2-1/2
1A	4200-001-1, 4200-002-1, 7274-2-1, 7277-2-1
1.5A	4200-001-105, 4200-002-105, 7274-2-1-1/2, 7277-2-1-1/2
2A	4200-001-2, 4200-002-2, 7274-2-2, 7277-2-2
2.5A	4200-001-205, 4200-002-205, 7274-2-2-1/2, 7277-2-2-1/2
3A	4200-001-3, 4200-002-3, 7274-2-3, 7277-2-3
4A	4200-001-4, 4200-002-4, 7274-2-4, 7277-2-4
5A	4200-001-5, 4200-002-5, 7274-2-5, 7277-2-5
7.5A	4200-001-705, 4200-002-705, 7274-2-7-1/2, 7277-2-7-1/2
10A	4200-001-10, 4200-002-10, 7274-2-10, 7277-2-10
15A	4200-001-15, 4200-002-15, 7274-2-15, 7277-2-15
20A	4200-001-20, 4200-002-20, 7274-2-20, 7277-2-20

APPROVED SWITCH SERIES for Item Number 20 in Figure 22 through Figure 32

SERIES NUMBER	TOGGLE	POLES	INDICATIONS
MS24523	Standard	1	2 or 3 position -- 3-pos are Center-OFF
MS24524	Standard	2	2 or 3 position -- 3-pos are Center-OFF
MS24525 *	Standard	4 *	2 or 3 position -- 3-pos are Center-OFF
MS24658	Locking	1	2 or 3 position -- 3-pos are Center-OFF
MS24659	Locking	2	2 or 3 position -- 3-pos are Center-OFF
MS24660 *	Locking	4 *	2 or 3 position -- 3-pos are Center-OFF
MS27406 *	Standard	4 *	3 position, Split Connection in center
MS27407	Standard	2	3 position, Split Connection in center
MS27408	Locking	2	3 position, Split Connection in center
MS27409 *	Locking	4 *	3 position, Split Connection in center

* Note: Use of 4-pole switches is subject to space constraints

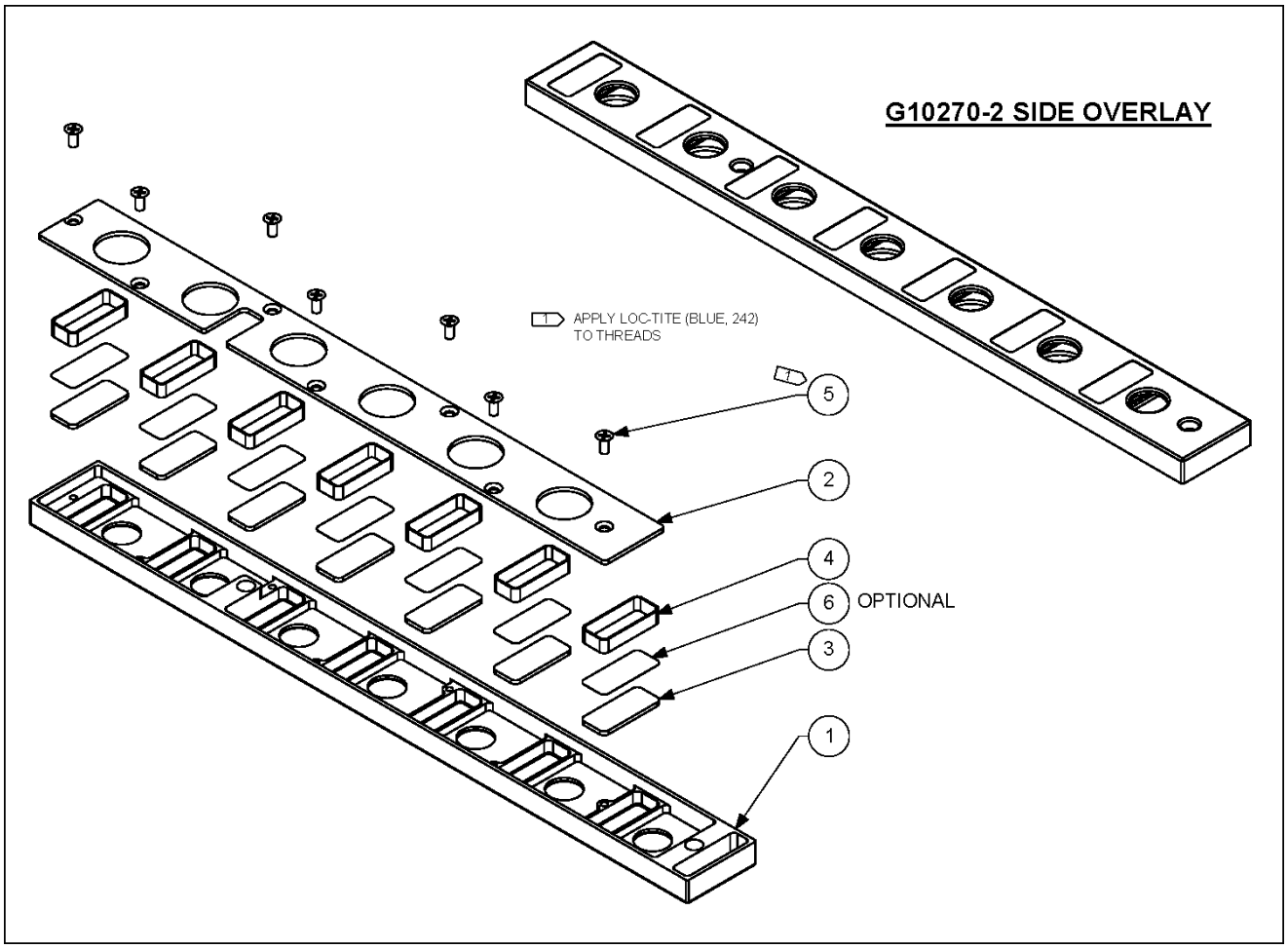

FIGURE 33: P132 CONSOLE, SIDE SWITCH RAIL OVERLAY SUB-ASSEMBLY (G10270-2)

PARTS LIST for Figure 33

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	G10271-2	SIDE OVERLAY
2	1	G10271-4	SIDE OVERLAY CB
3	1	G12142	SIDE LEGEND
4	7	G12251-2	SPACER - SIDE OVERLAY
5	7	MS24693-2	SCREW, 100° FLAT HEAD #4-40 x 1/4
6	7	G12142-1	NVIS FILTER (OPTIONAL)

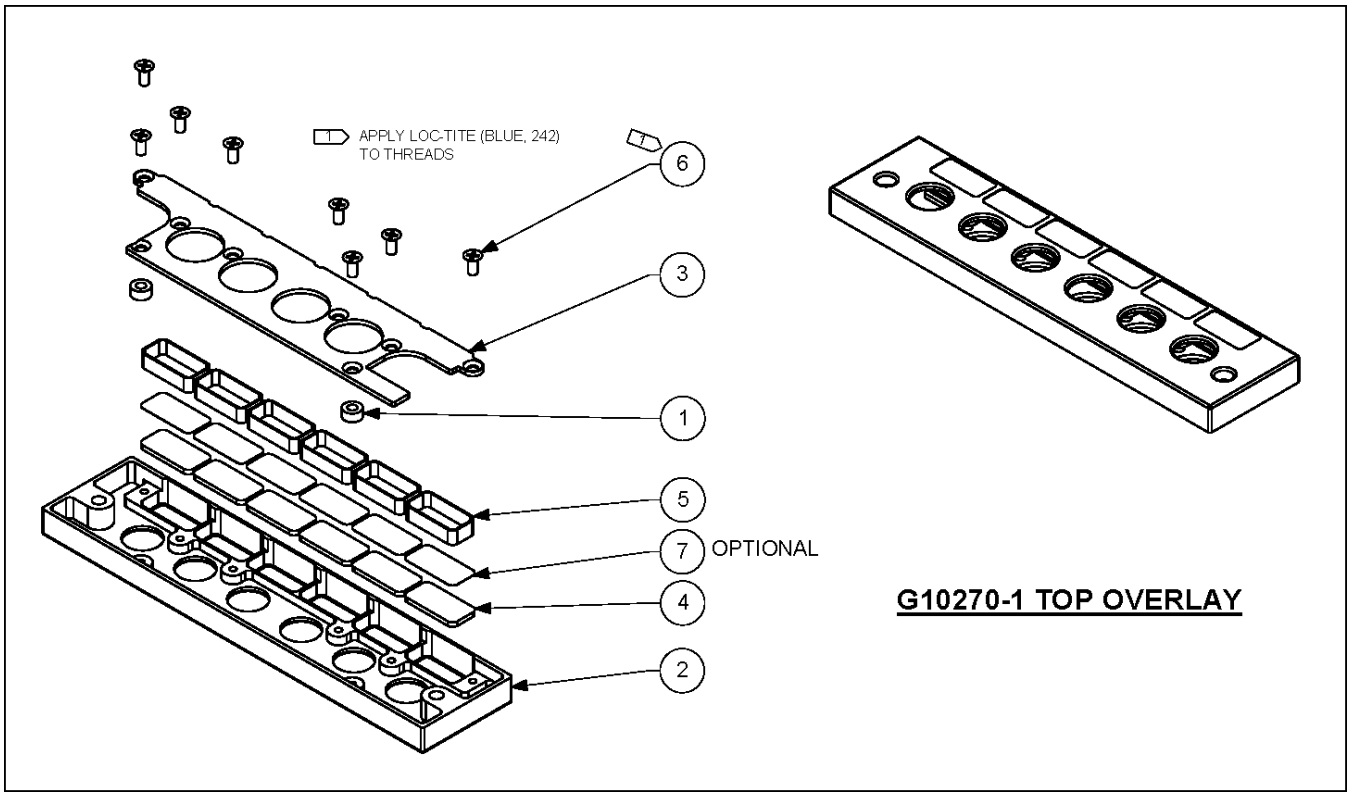

FIGURE 34: P132 CONSOLE, CENTER SWITCH RAIL OVERLAY SUB-ASSEMBLY (G10270-1)

PARTS LIST for Figure 34

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	875	NYLON SPACER - #4 x .125 LG
2	1	G10271-1	TOP OVERLAY
3	1	G10271-3	TOP CB ASSY
4	6	G12141	TOP LEGEND
5	6	G12251-1	SPACER - TOP OVERLAY
6	8	MS24693-2	SCREW, 100° FLAT HEAD #4-40 x 1/4
7	6	G12141-1	NVIS FILTER (OPTIONAL)

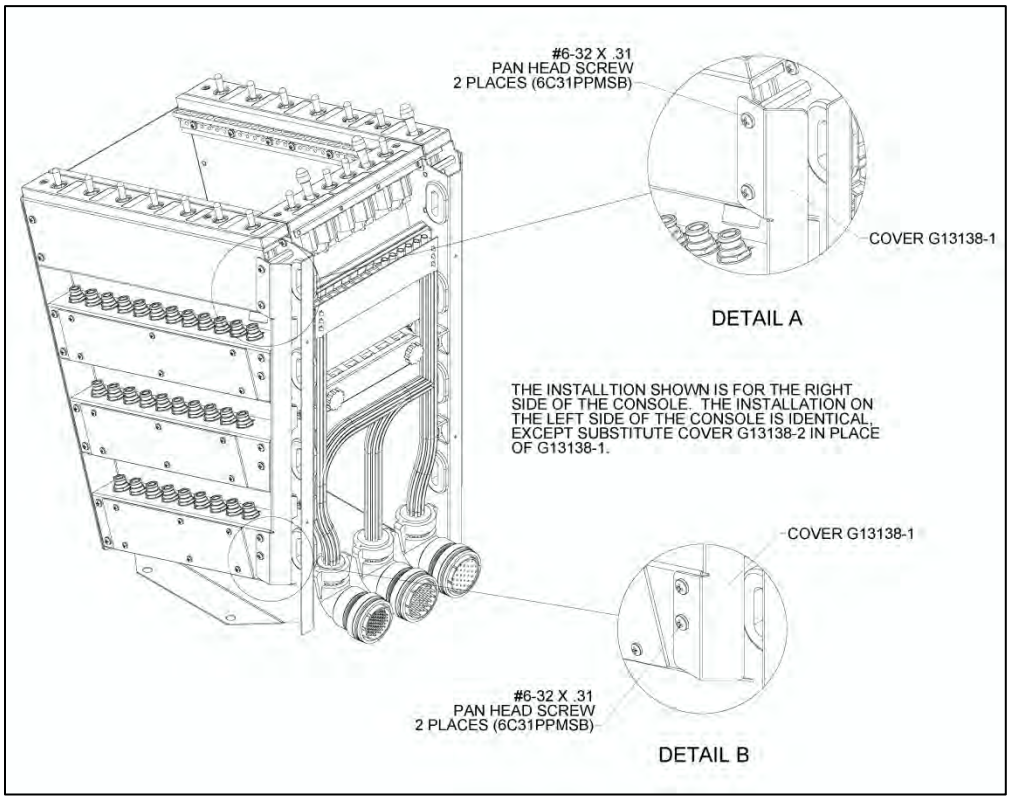

FIGURE 35: P132 CONSOLE, OPTIONAL FOD COVER INSTALLATION (G13138)

Section 6.0 Wiring Maintenance

6.1 General Notes

a. The installation of the Eagle Copters P122 or P132 Console requires the application of accepted aircraft equipment practices, according to FAA publication, AC43.13-1B, ACCEPTABLE METHODS, TECHNIQUES AND PRACTICES, AIRCRAFT INSPECTION AND REPAIR, and the installer shall strictly comply with paragraph 11-96a of that Advisory Circular.

b. The requirement regarding the securing of wire bundles using nonmetallic clamps is addressed by the use of waxed lace cord and nylon cable ties. The part numbers and description of the cable ties is as follows:

Cable Tie Selection Chart
Thomas & Betts Brand

Cat. No.	UPC	Body Width in.	Length in.	Max Wire Bundle Dia in.	Military Standard Part No.	Tensile Strength lbs.
TY23M	82436	0.091	3.62	0.625	MS3367-4	18
TY24M	82447	0.140	5.50	1.125	MS3367-5	40
TY25M	82457	0.184	7.31	1.725	MS3367-1	50

c. Following the guidelines in AC43.13-1B, cable ties are attached at a maximum of 4” spacing and ties are attached to nylon cable tie anchors, as necessary.

d. Certain circuits in the console are required to be built and used per the standard wiring diagrams for the particular version and modification level of the aircraft. Refer to the wiring diagrams in Section 6.0 for the standard circuits.

e. Certain circuits are permitted to deviate from the standard wiring to support optional equipment. These deviations may be built into a console at Eagle Copters during assembly. Further alterations may be performed by the installer during installation. Eagle Copters includes a set of wiring diagrams with each console showing the circuitry built into that console during assembly. The installer is required to update these drawings for any changes made during installation. Refer to this wiring diagram set for any circuits that do not match the standard wiring in Section 6.4.

6.2 Wiring Maintenance

a. Inspect exposed wire bundles for damage. If a wire in the console needs to be repaired or replaced due to damage, refer to Section 6.1 paragraphs (a) and (b) for the necessary information. All wiring should be built utilizing standard aviation practices.

b. Check the circular connectors on the console, and the mating connectors on the airframe wires, to confirm that the contact pins and sockets are straight, fully seated and show no signs of corrosion.

6.3 Replacing Wiring and Circuit Devices

6.3.1 Wire and Wire Marking

a. The wire type used in the P132 and P122 consoles is M22759/16-“gauge”-9, M22759/32-“gauge”-9, or M22759/41-“gauge”-9. Wires used in the console range from 22 AWG to 8 AWG.

b. Wires shown in the wiring diagrams are 20 AWG unless noted otherwise on the specific wiring diagram. At the installer’s discretion, a damaged wire may be replaced with a larger wire than is called for in the wiring diagrams, provided that the larger wire can still be terminated and connected properly for the application.

c. Any replacement wire should be marked with the same wire number as the original. If installed, the slip-on markers from the original wire may be re-used on the replacement wire. The original, damaged wire should either be completely removed from the console, or capped and stowed and identified as a DAMAGED wire.

d. Replacement wires may be labeled using any legible method that does not compromise the wire or insulation. These methods include but are not limited to: hot stamping, laser-marking, slip-on wire markers, and wrap-around labels generated by computer printout or by a label maker.

6.3.2 Terminals and Connectors

a. The following crimp terminals are approved for use in the consoles:

Manufacturer	Stud Size	Color	Wire Size (AWG)	AMP P/N
AMP or equivalent	4	Red	22-16	31880
AMP or equivalent	6	Red	22-16	36150
AMP or equivalent	6	Red	22-16	36152
AMP or equivalent	8	Red	22-16	31886
AMP or equivalent	10	Red	22-16	36154
AMP or equivalent	1/4	Red	22-16	31894
AMP or equivalent	6	Blue	16-14	36158
AMP or equivalent	8	Blue	16-14	320565
AMP or equivalent	10	Blue	16-14	36160
AMP or equivalent	6	Yellow	12-10	35107
AMP or equivalent	8	Yellow	12-10	35108
AMP or equivalent	10	Yellow	12-10	35109
AMP or equivalent	Butt Splice (if needed)		22-16	320559
AMP or equivalent	Butt Splice (if needed)		16-14	320562

b. Circuit breaker and switch terminals should have only one ring terminal attached, so if more than one wire is routed to the same terminal of a switch or circuit breaker, crimp the wires together into one ring terminal of suitable size.

c. The terminal block on the Overlay Power Supply may have either one or two ring terminals attached per position, so the wires connected to the output terminals may be grouped accordingly.

d. The connectors used by Eagle Copters for the P122 console are as follows:

Connector	Location AC / Console	Part Number	Contact Type	Contact Part Number	Backshell Part Number
J1	Console side	MS3470L22-55P	20ga pins	M39029/4-110	N/A
P1	Aircraft side	MS3476L22-55S	20ga sockets	M39029/5-115	M85049/51-1-22N
J2	Console side	MS3470L24-31P	16ga pins	M39029/4-111	N/A
P2	Aircraft side	MS3476L24-31S	16ga sockets	M39029/5-116	M85049/51-1-24N
J3	Console side	MS3470L24-31S	16ga sockets	M39029/5-116	N/A
P3	Aircraft side	MS3476L24-31P	16ga pins	M39029/4-111	M85049/51-1-24N

e. The connectors used by Eagle Copters for the P132 console are as follows:

Connector	Location AC / Console	Part Number	Contact Type	Contact Part Number	Backshell Part Number
J1	Console side	MS3471L22-55P	20ga pins	M39029/4-110	M85049/51-1-22N
P1	Aircraft side	MS3476L22-55S	20ga sockets	M39029/5-115	M85049/52-1-22N
J2	Console side	MS3471L24-31P	16ga pins	M39029/4-111	M85049/51-1-24N
P2	Aircraft side	MS3476L24-31S	16ga sockets	M39029/5-116	M85049/52-1-24N
J3	Console side	MS3471L24-31S	16ga sockets	M39029/5-116	M85049/51-1-24N
P3	Aircraft side	MS3476L24-31P	16ga pins	M39029/4-111	M85049/52-1-24N

f. All connector pins must be crimped with the proper tool. For the MS3470 / MS3471 / MS3476 series connectors, use the M22520/1-01 four-point crimper with M22520/1-02 positioning die, per Figure 37.

g. Further connectors may have been added during installation. Refer to the installer's notes for information concerning any such connectors.

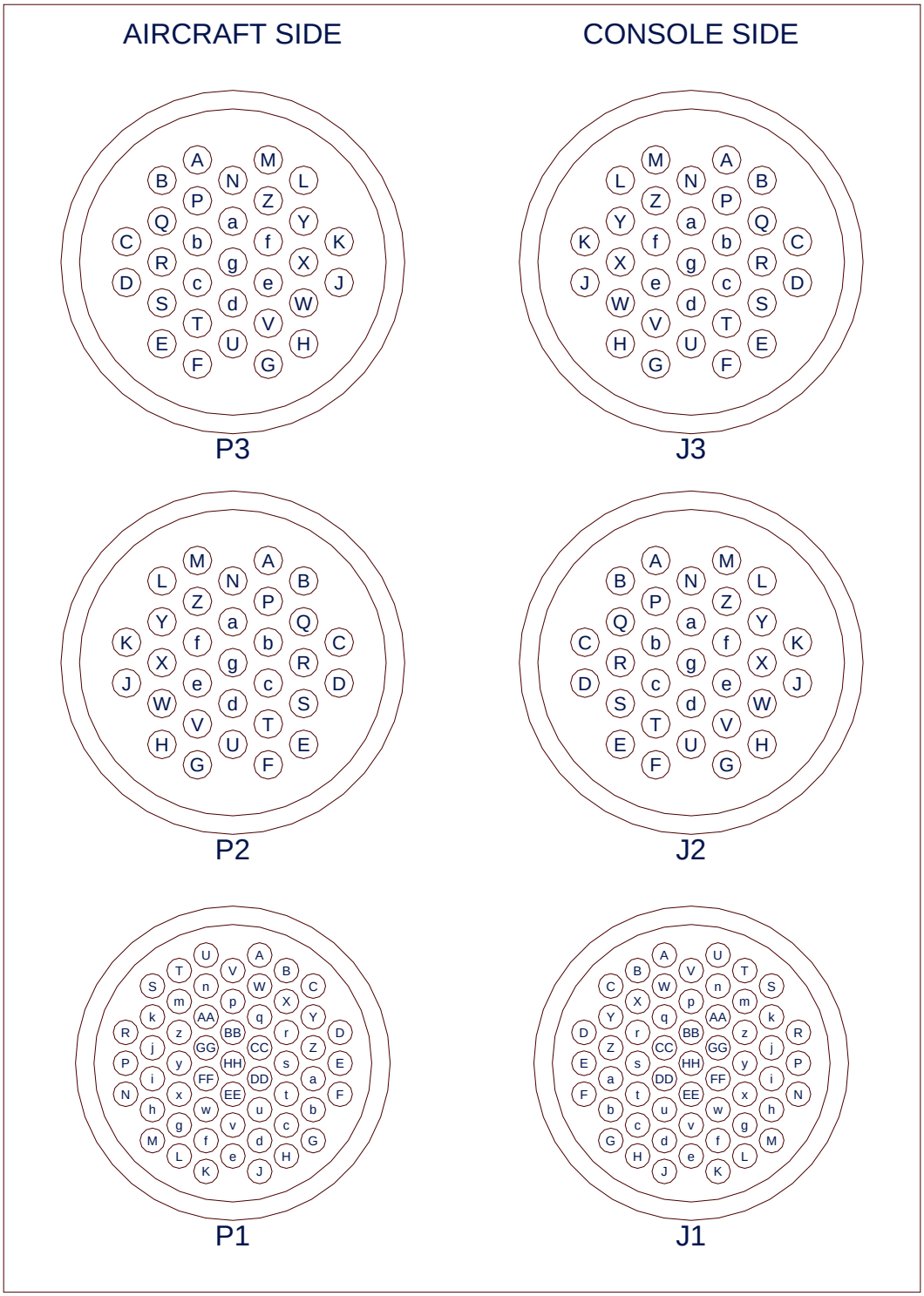

FIGURE 36: CONNECTORS FOR P122 & P132 CONSOLES -- WIRE ENTRY VIEWS

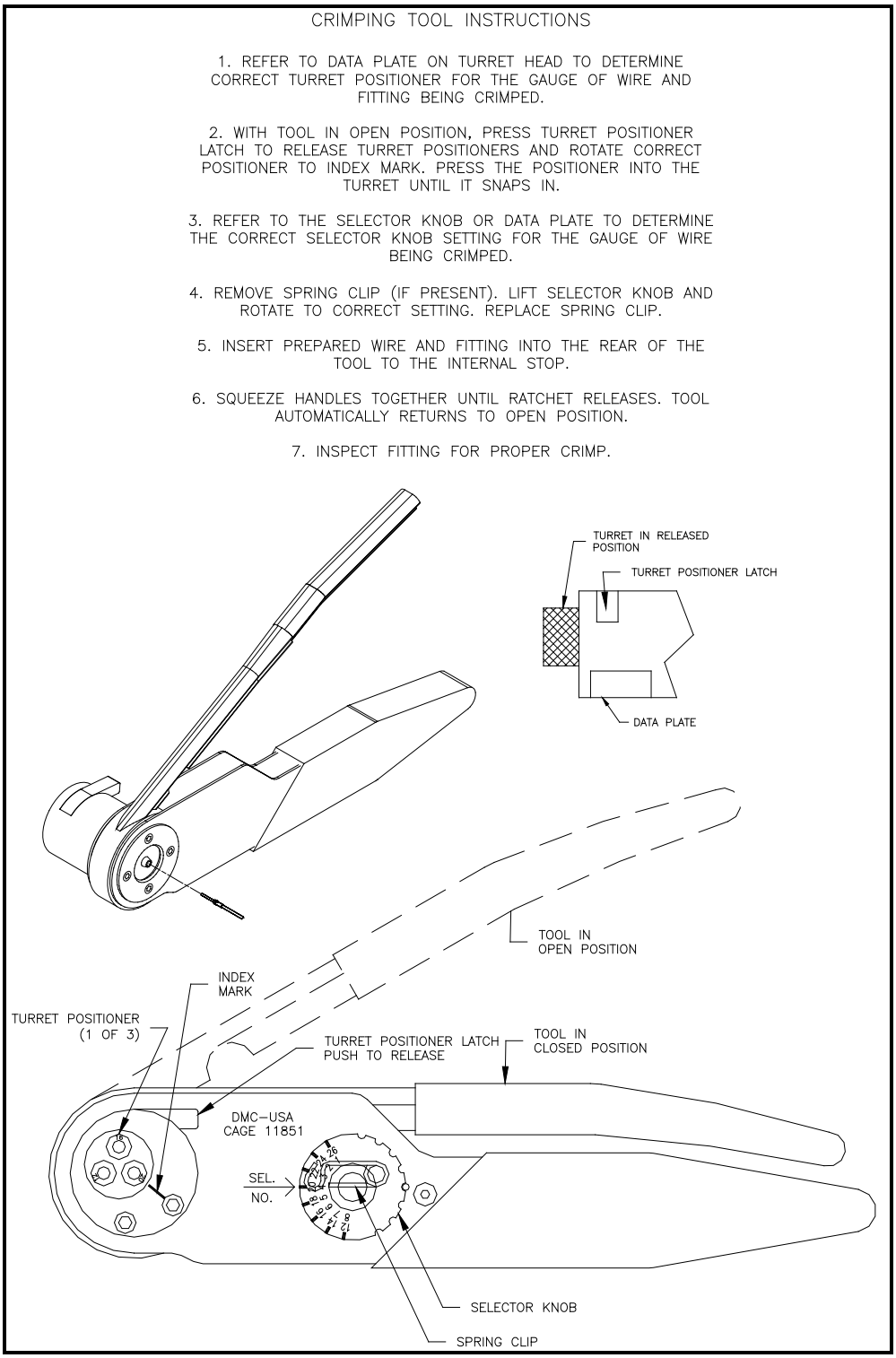

FIGURE 37: CABLE ASSEMBLY DETAIL CRIMPING TOOL

6.3.3 Diodes

a. If a diode must be replaced, use a power rectifier with minimum ratings of 3A and 50V. Approved part numbers include MR750, MR751, MR752, MR754 MR760, 6A05-T, 6A1-T, 6A2-T, 6A4-T, 6A6-T, 6A8-T and 6A10-T.

6.3.4 Circuit Breakers

a. If a circuit breaker must be replaced, use a breaker from series MS26574 or one of its commercial equivalents: Eaton 4200-001 or 4200-002, or Klixon 7274-2 or 7277-2. For any mounting position in the P122 console adjacent to the connection point of a bus wire to the bus bar, the Klixon part will not fit properly and the Eaton part must be used.

6.3.5 Switches

a. At the installer's discretion, a standard toggle switch may be replaced with a locking toggle switch, provided that the locking function does not interfere with the intended operation of the switch. Also at the installer's discretion, a single-pole switch may be replaced with a double-pole switch of the same type, provided that there is sufficient clearance. Other than these two options, if a switch must be replaced, use the same part number as the original. The Mil-Spec switch series MS24523, MS24524, MS24658, MS24659, MS27407 and MS27408 are approved for use, while series MS24525, MS24660, MS27406 and MS27409 are approved for limited use, subject to space constraints.

b. The Master Cutoff switch toggle MUST be colored RED and the Hydraulic Test (or Accumulator Test) switch toggle MUST be colored YELLOW. If one of these switches must be replaced, the replacement switch must have the appropriate color marking applied. The original switches are marked using colored heat shrink tubing, but any durable, airworthy marking method may be used provided that it does not interfere with the intended operation of the switch.

6.4 Wiring Diagrams for Standard P122 and P132 Console Circuits

6.4.1 These wiring diagrams detail the standard circuitry inside the P122 and P132 consoles, and for standard equipment, list the airframe wires that must be connected to the console.

6.4.2 Effectivity: The Basic System wiring covers all AS350D, D1, B, BA, B1 and B2 pre-mod 350A07-3273. This wiring is listed in this section as well as the AS350B3 with specific Mod levels implemented. The specific console installed in the aircraft may have wiring different from the Basic System based on the specific model of airframe and the MOD levels installed. The technician servicing this console must verify the correct mod level and model of the aircraft to determine the correct circuit drawings to use. The wiring drawings are grouped by MOD level from Sections 6.5 thru 6.12 and each section specifies the effectivity for using them.

a. For AS350-B3 aircraft Post Mod 350A07-3087 and Pre Mod 350A07-3257 or 350A07-3274, see Section 6.5.

b. For AS350-B3 aircraft Post Mod 350A07-3257, see Section 6.6.

c. For AS350-B2 aircraft Post Mod 350A07-3273, see Section 6.7.

d. For AS350-B3 aircraft Post Mod 350A07-3274, see Section 6.8.

e. For AS350-B2 aircraft Post Mod 350A07-3368, see Section 6.9.

f. For AS350-B3e aircraft Post Mod 350A07-3476, see Section 6.10.

g. For AS350-B2 aircraft Post Mod 350A07-4280, see Section 6.11.

h. For AS350-B3e aircraft Post Mod 350A07-4280, see Section 6.12.

6.4.3 Some circuits, such as the Warning Horn, are the same internally for all aircraft versions, but connect to different wires for different versions. Other circuits, such as the Master Cutoff / Battery-External Power / Direct Battery circuit, will be different for all of the standard wiring sets, and for different options or mod levels within the wiring sets.

6.4.4 The figures have in the title the original STC drawing number in parenthesis () for reference purposes. Below each figure is the Basic Model effectivity for the figure.

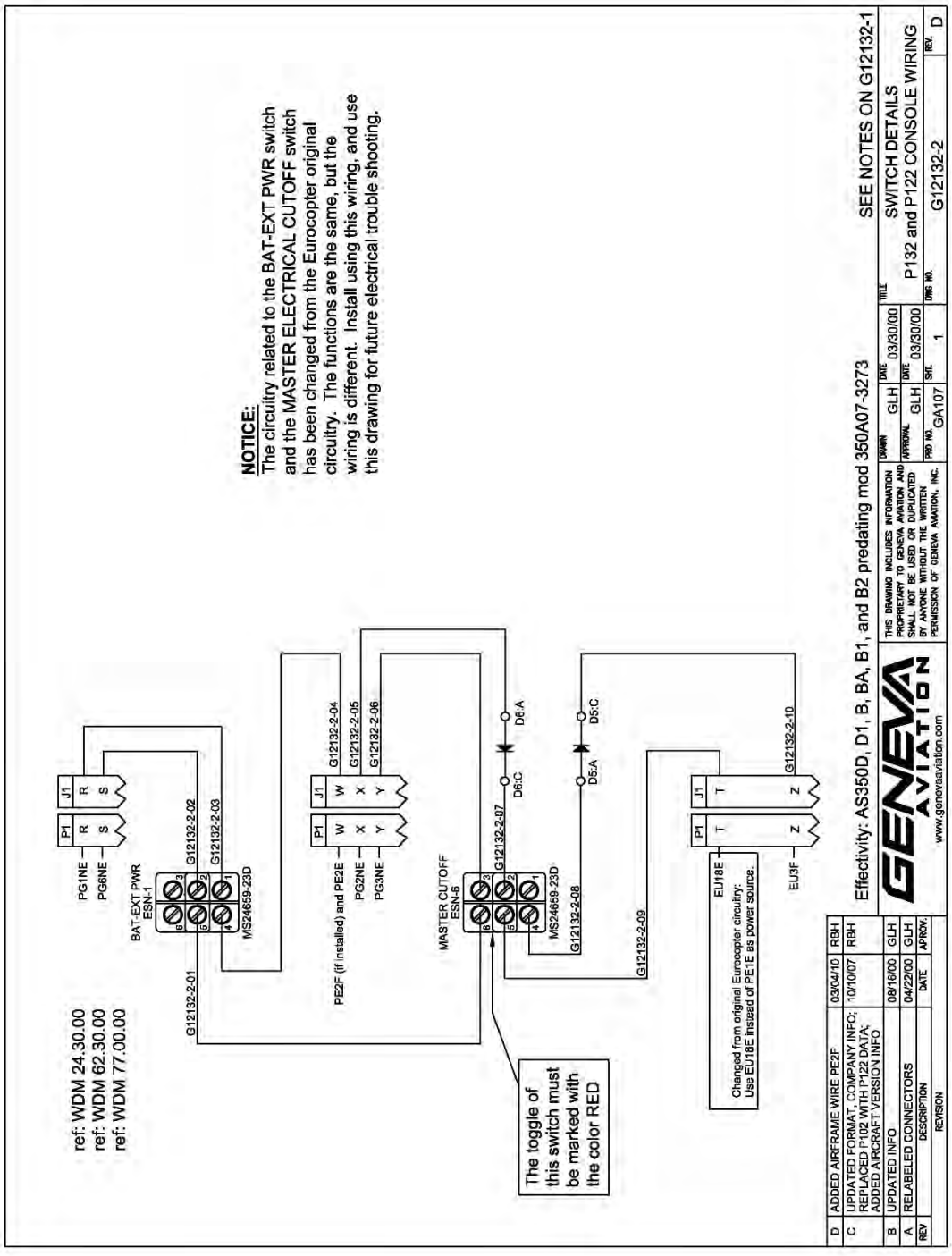

Figure 38: Switch Details (G12132-2 Rev D)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

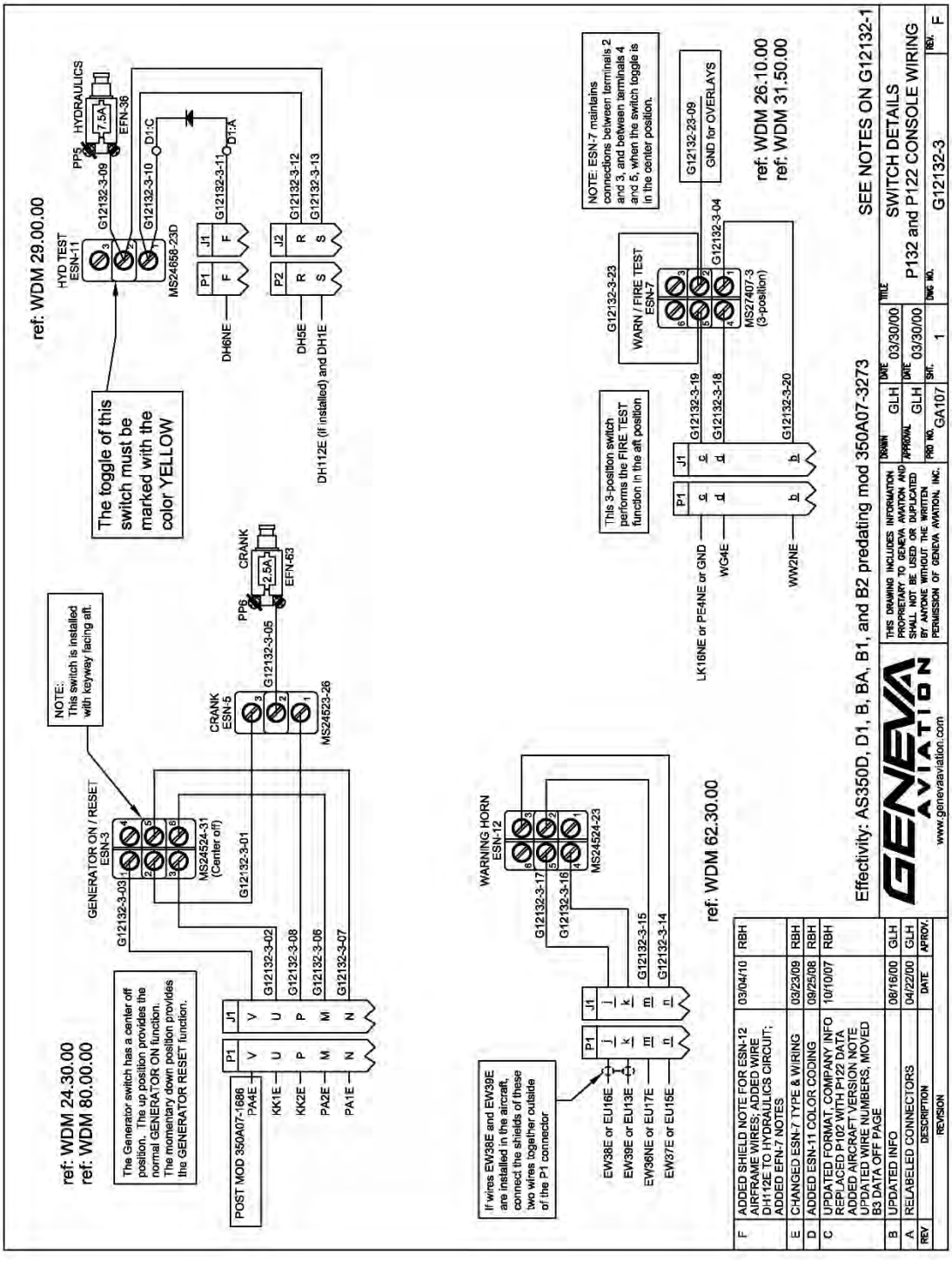

Figure 39: Switch Details (G12132-3 Rev F)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

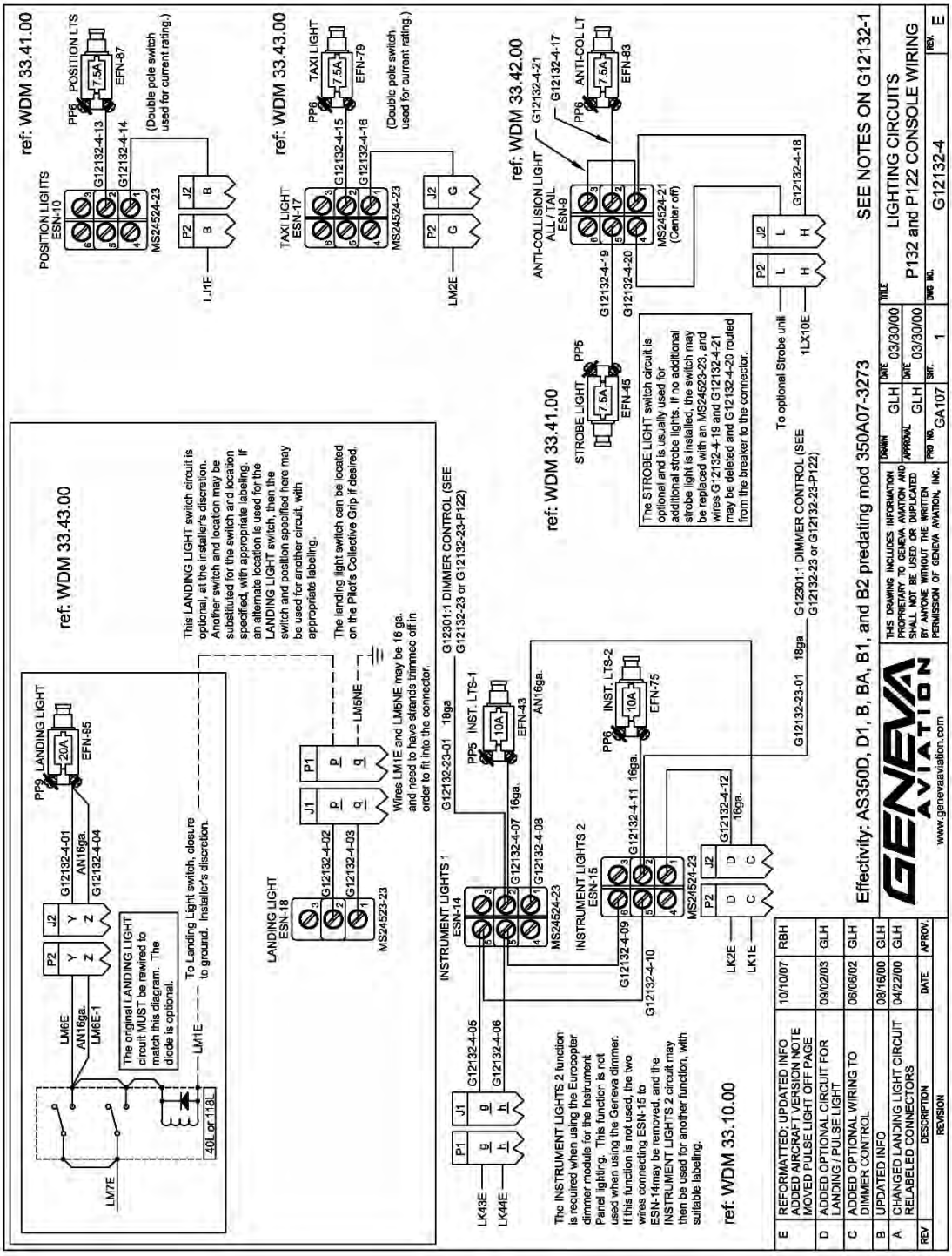

Figure 40: Lighting Circuits (G12132-4 Rev E)
Effectivity: AS350D, D1, B, BA, B1 and B2 predating mod 350A07-3273

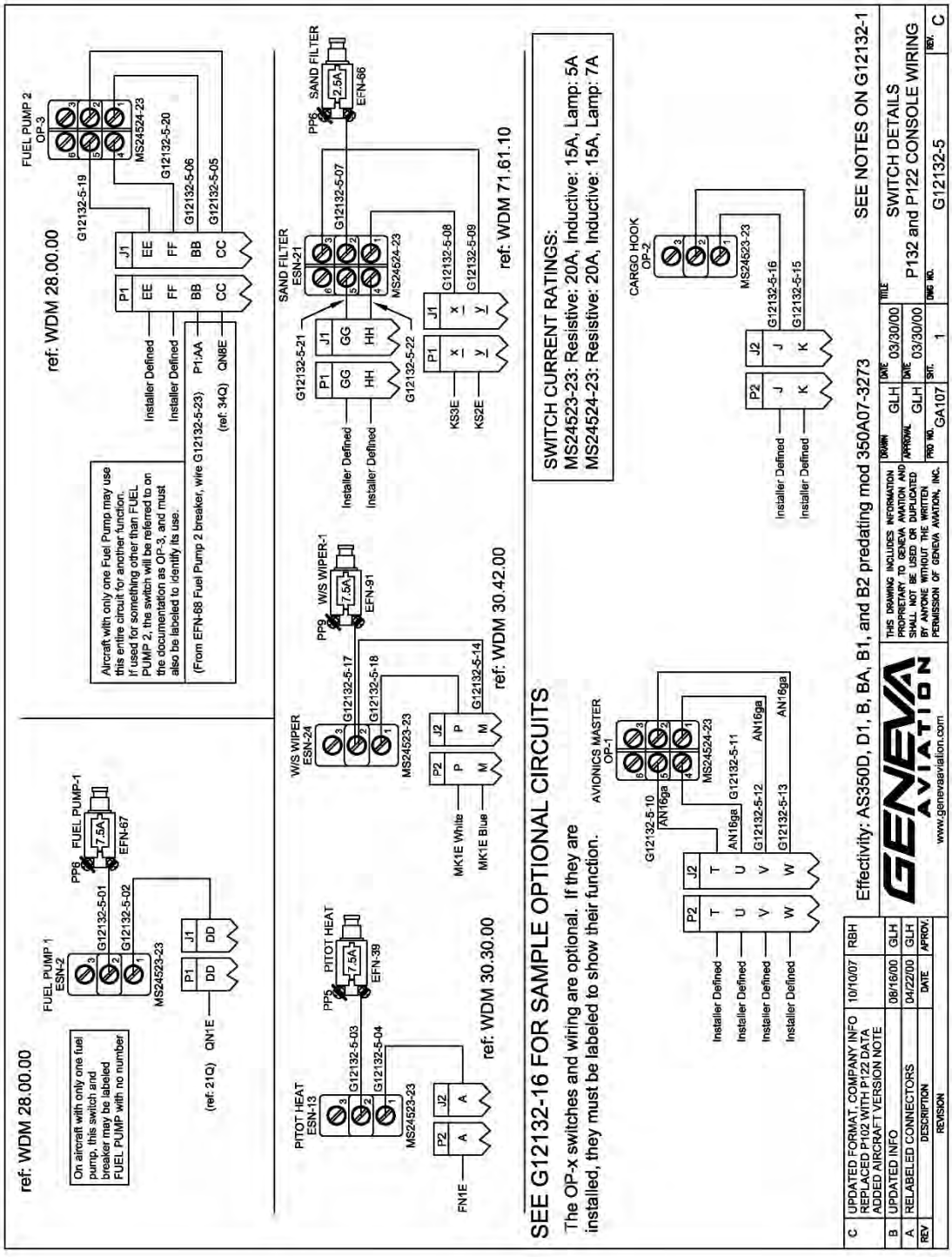

Figure 41: Switch Details (G12132-5 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

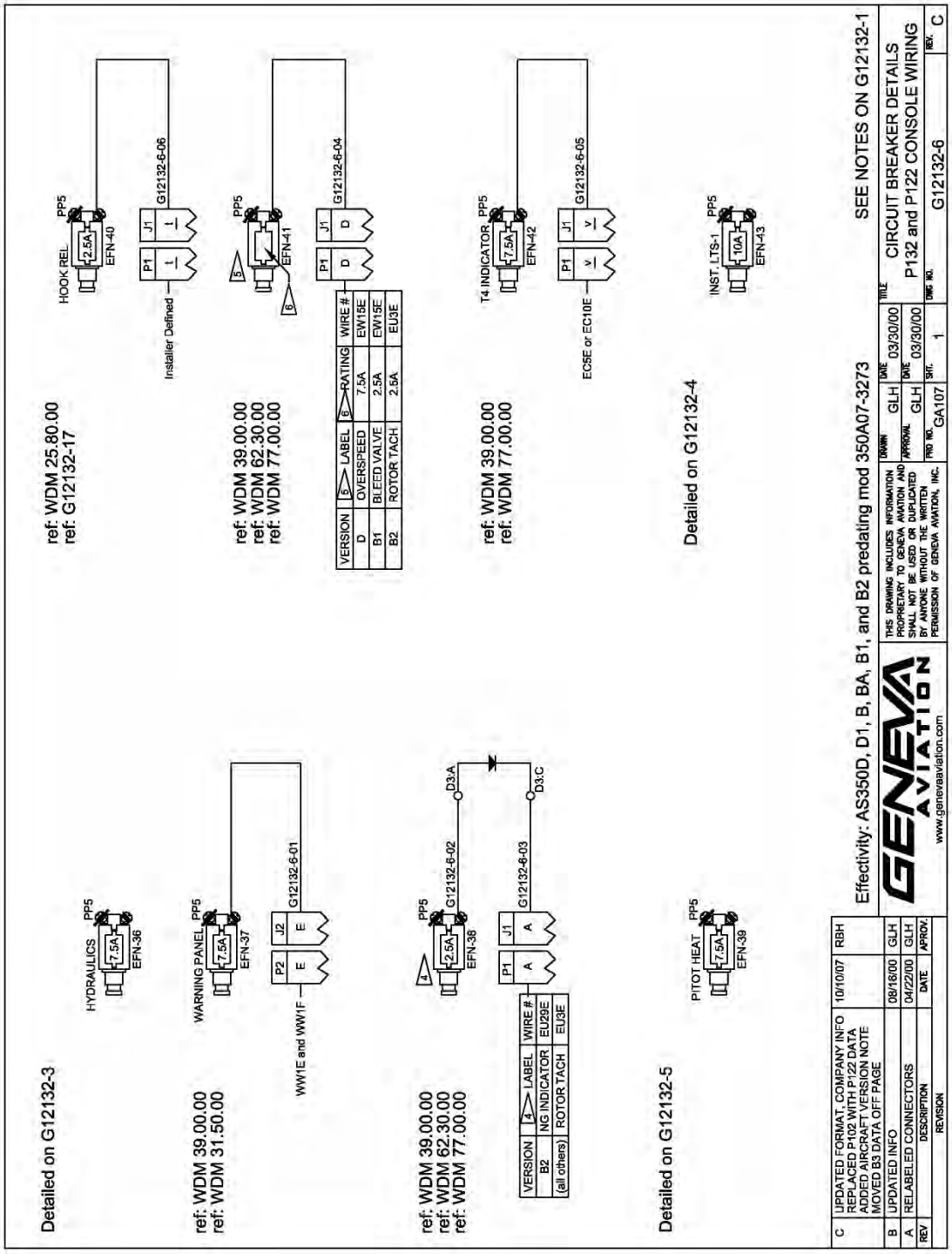

Figure 42: Circuit Breaker Details (G12132-6 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

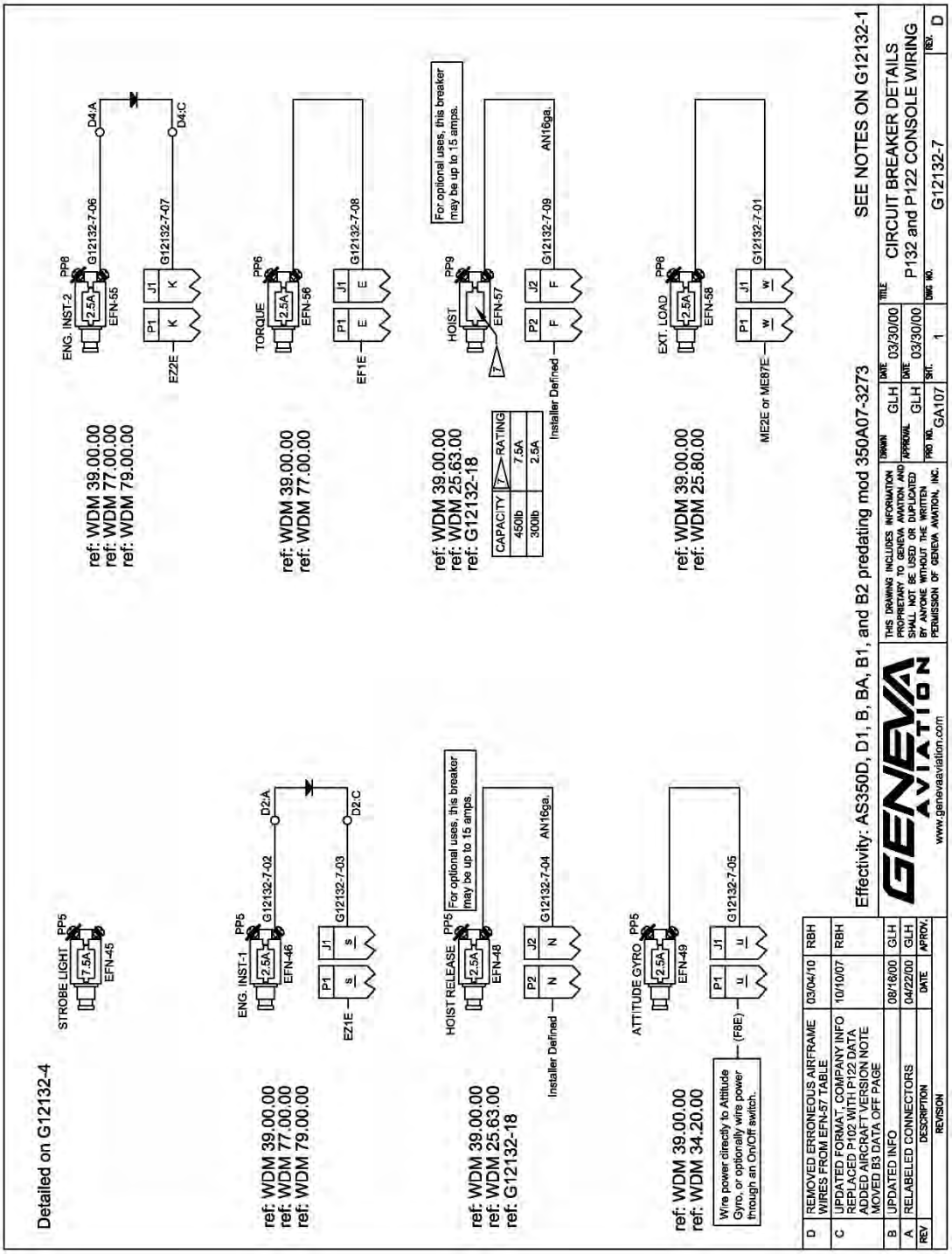

Figure 43: Circuit Breaker Details (G12132-7 Rev D)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

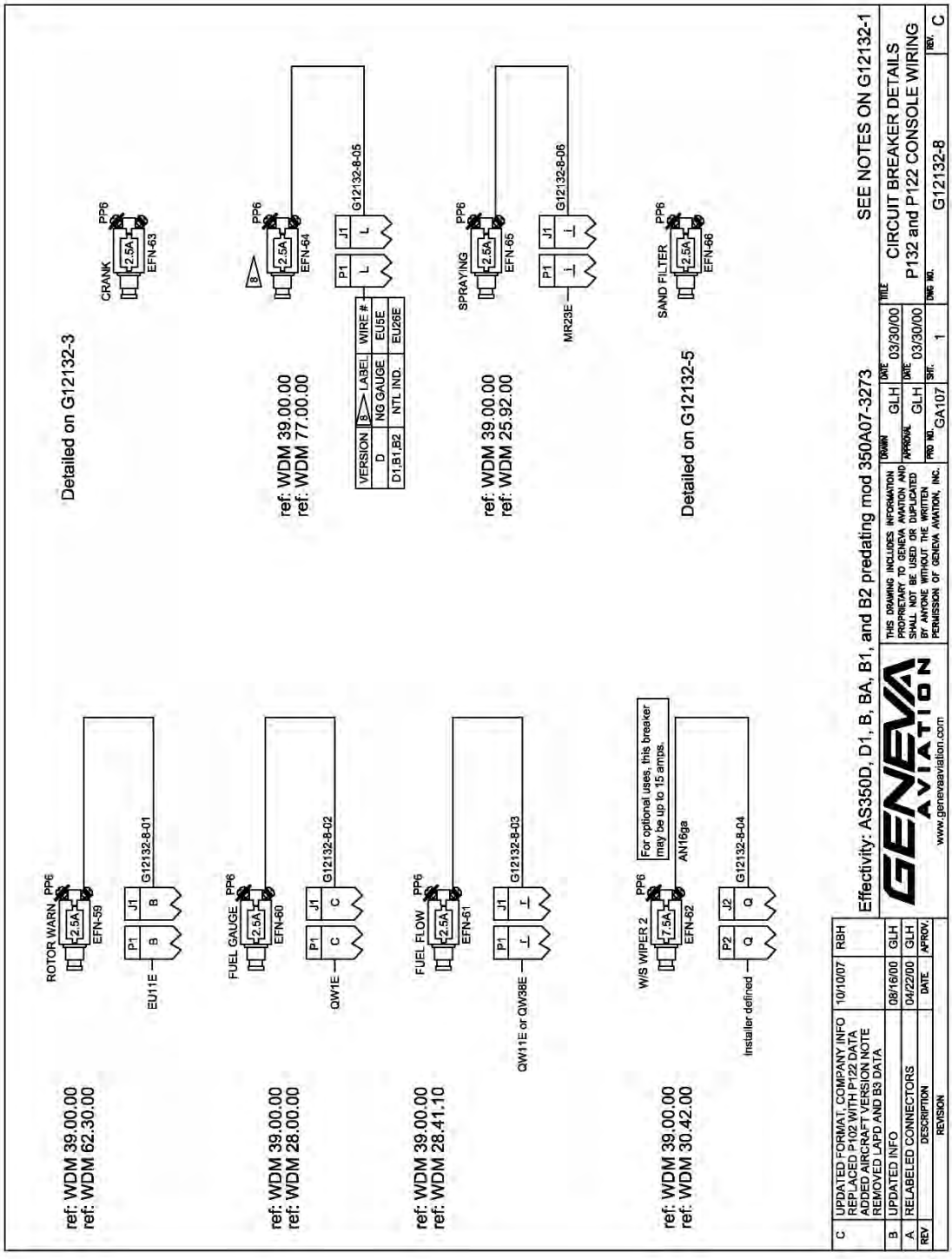

Figure 44: Circuit Breaker Details (G12132-8 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

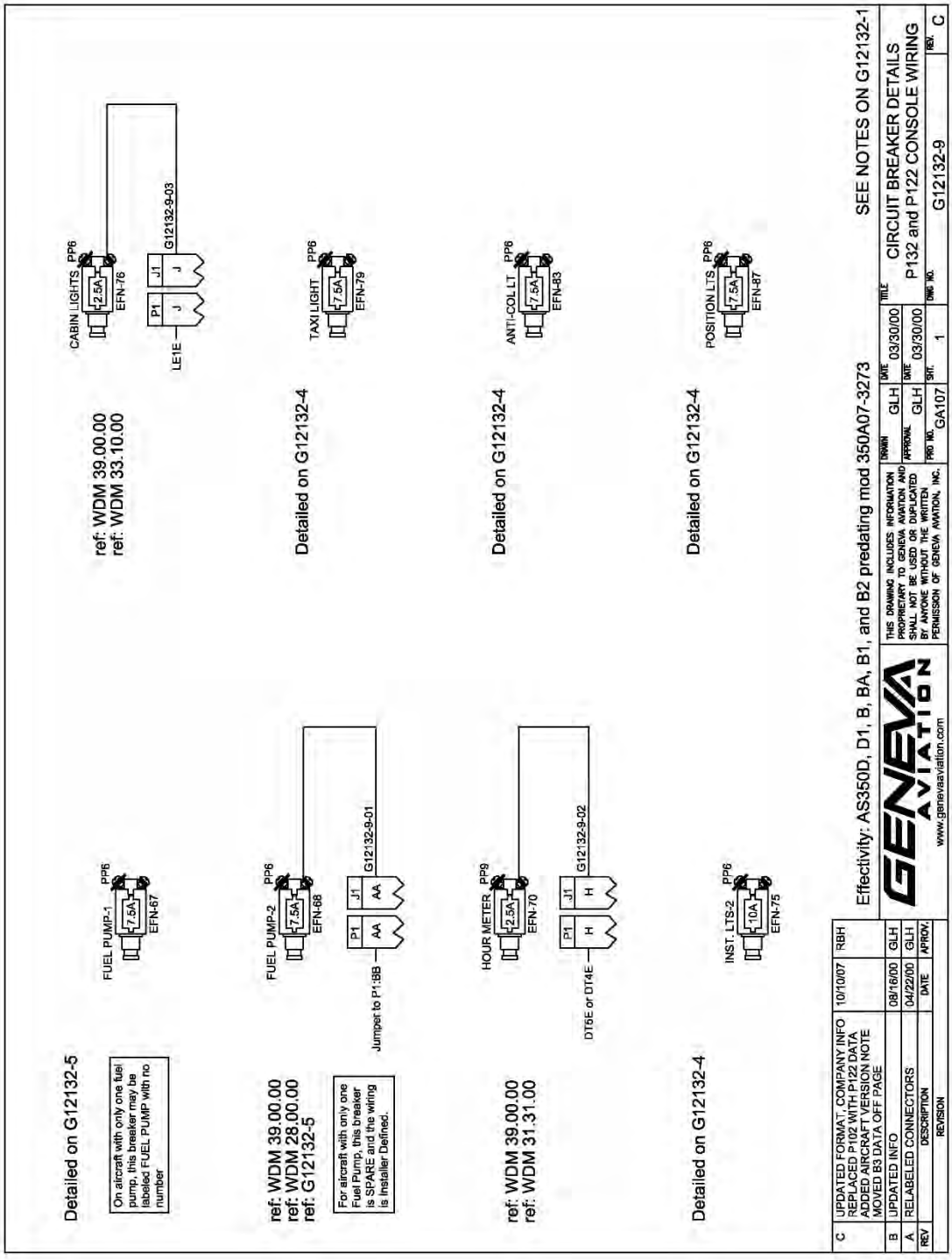

Figure 45: Circuit Breaker Details (G12132-9 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

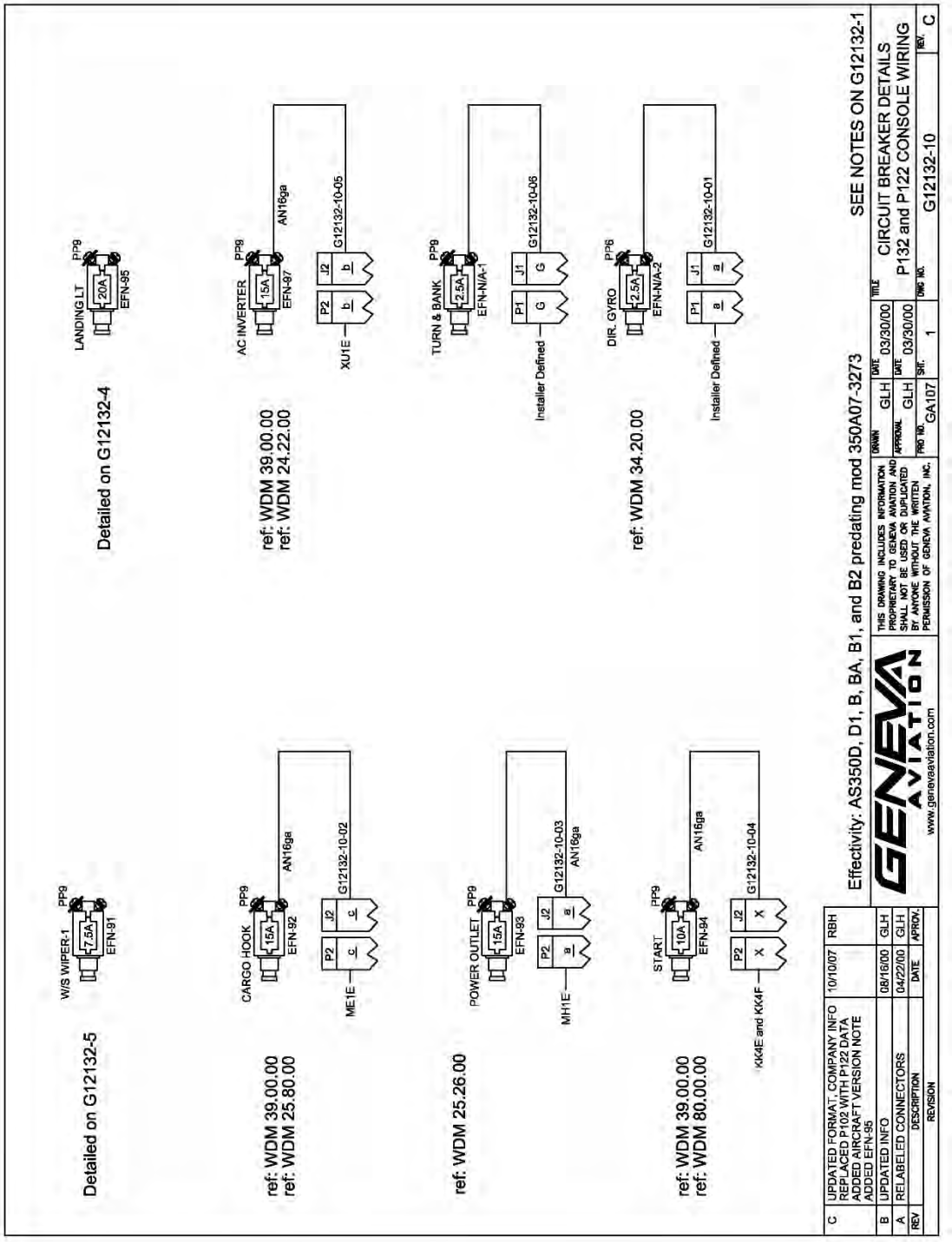

Figure 46: Circuit Breaker Details (G12132-10 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

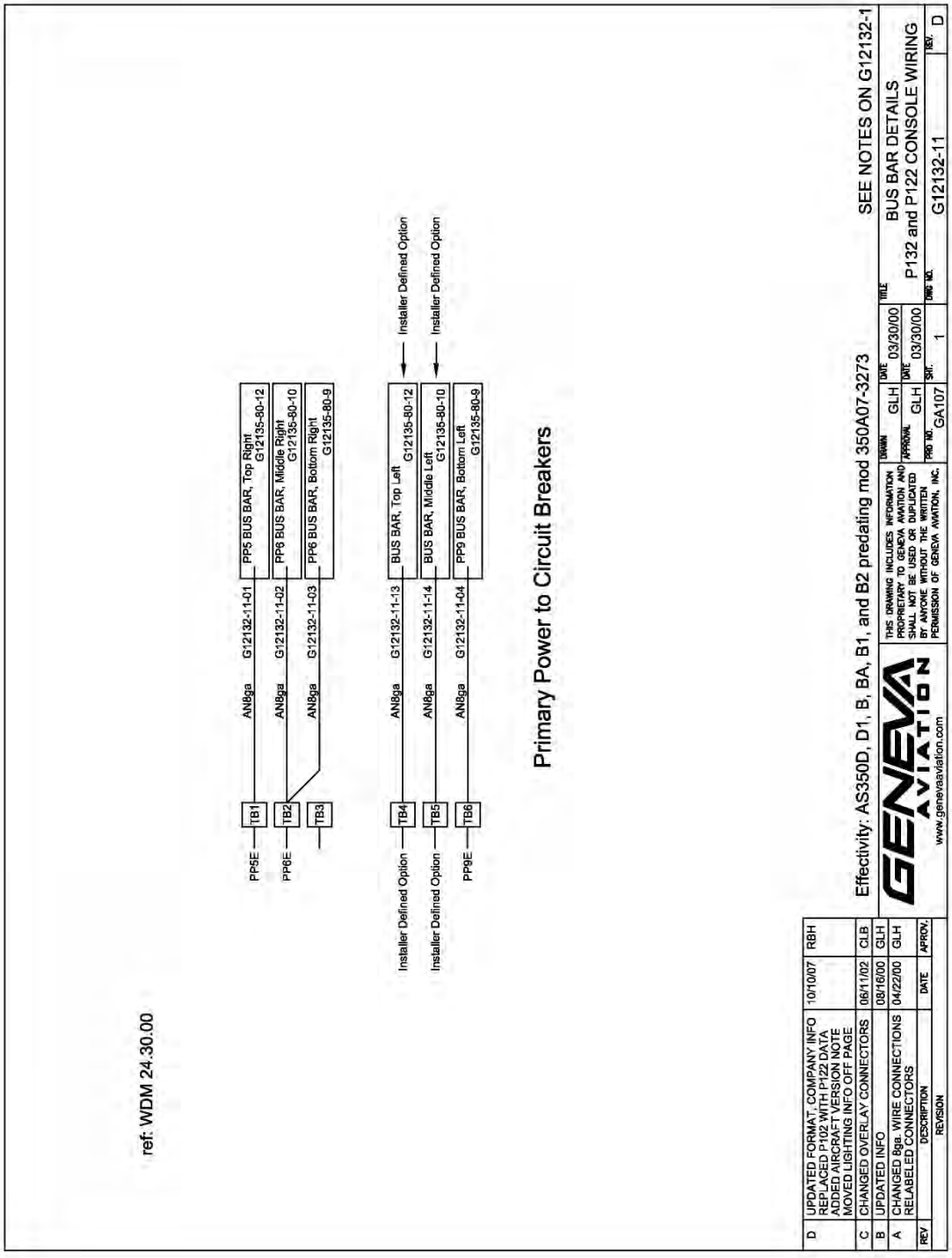

Figure 47: Bus Bar Details (G12132-11 Rev D)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

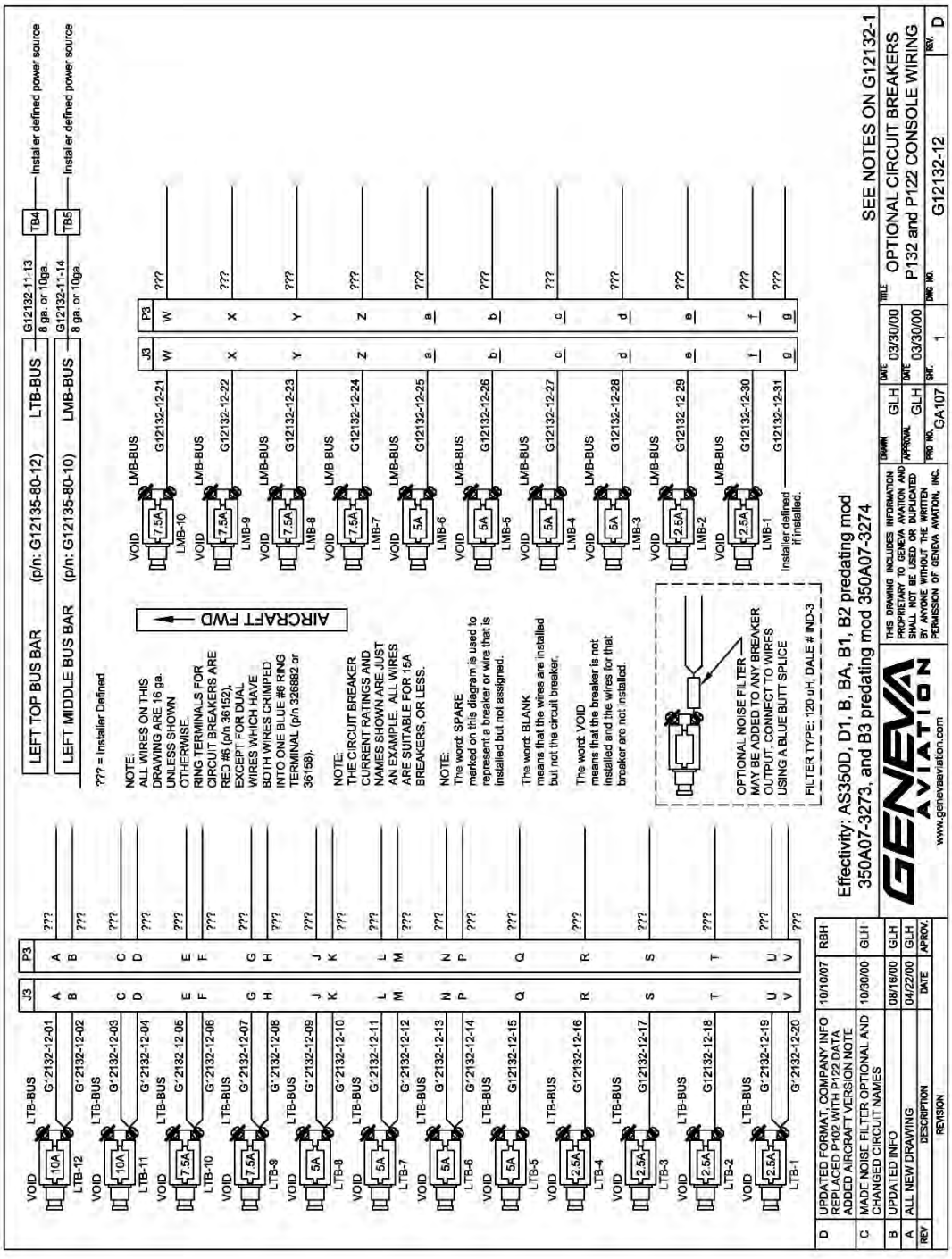

Figure 48: Optional Circuit Breakers (G12132-12 Rev D)
Effectivity: AS350D, D1, B, BA, B1, B2 Pre-MOD 350A07-3273
and B3 Pre-MOD 350A07-3274

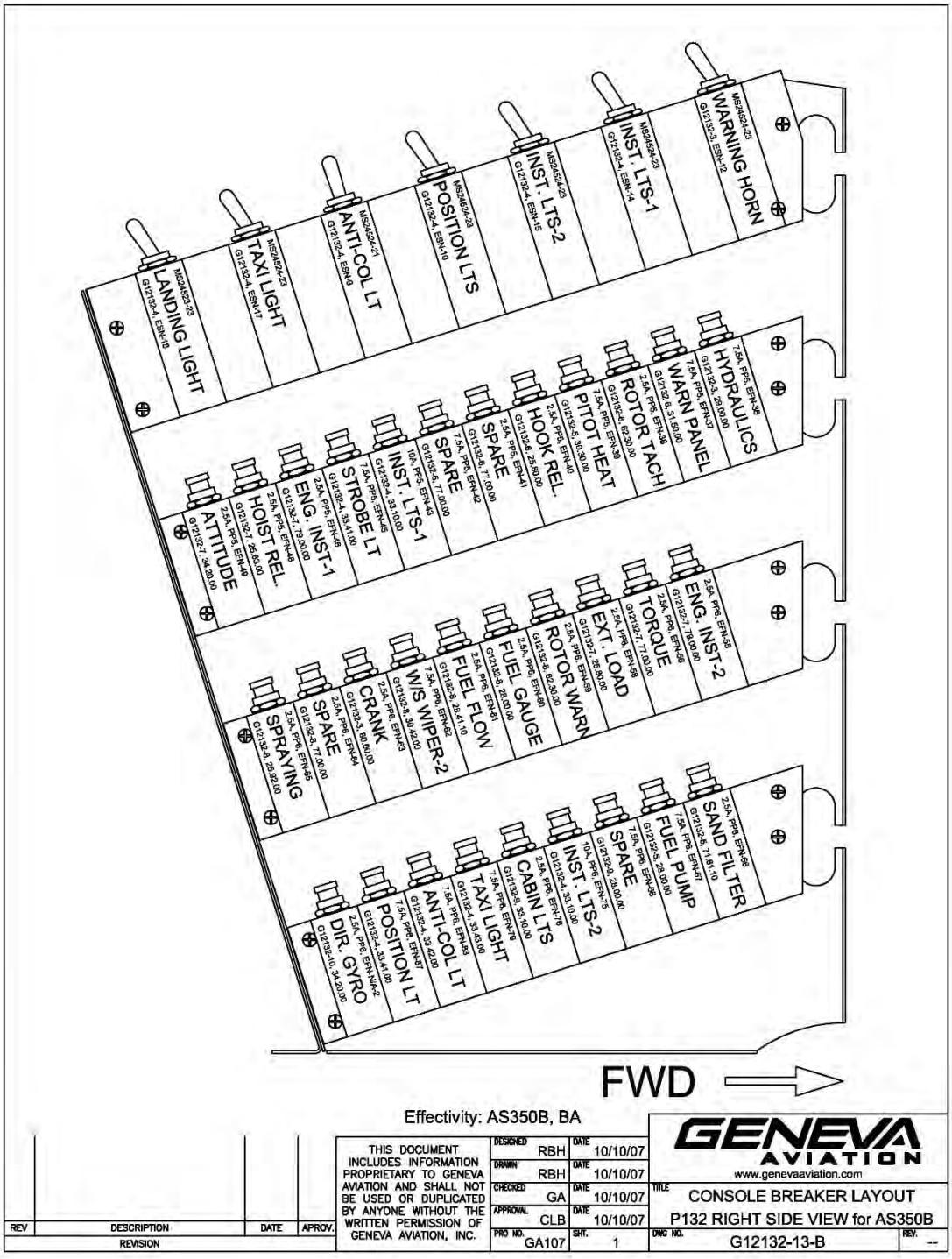

Figure 49: P132 Console RH Side CB Layout (G12132-13-B Rev --)
Effectivity: AS350B, BA

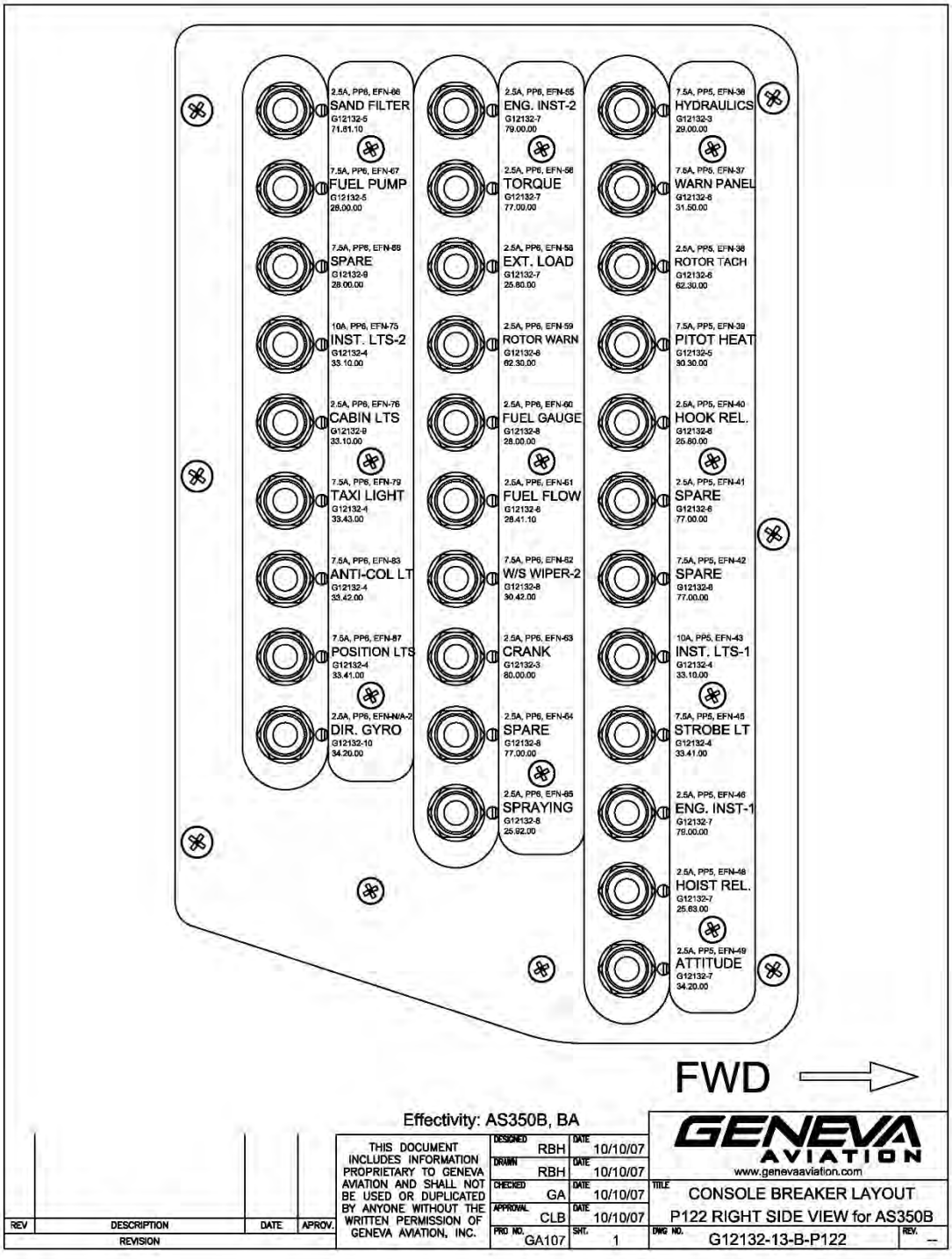

Figure 50: P122 Console RH Side CB Layout (G12132-13-B-P122 Rev --)
Effectivity: AS350B, BA

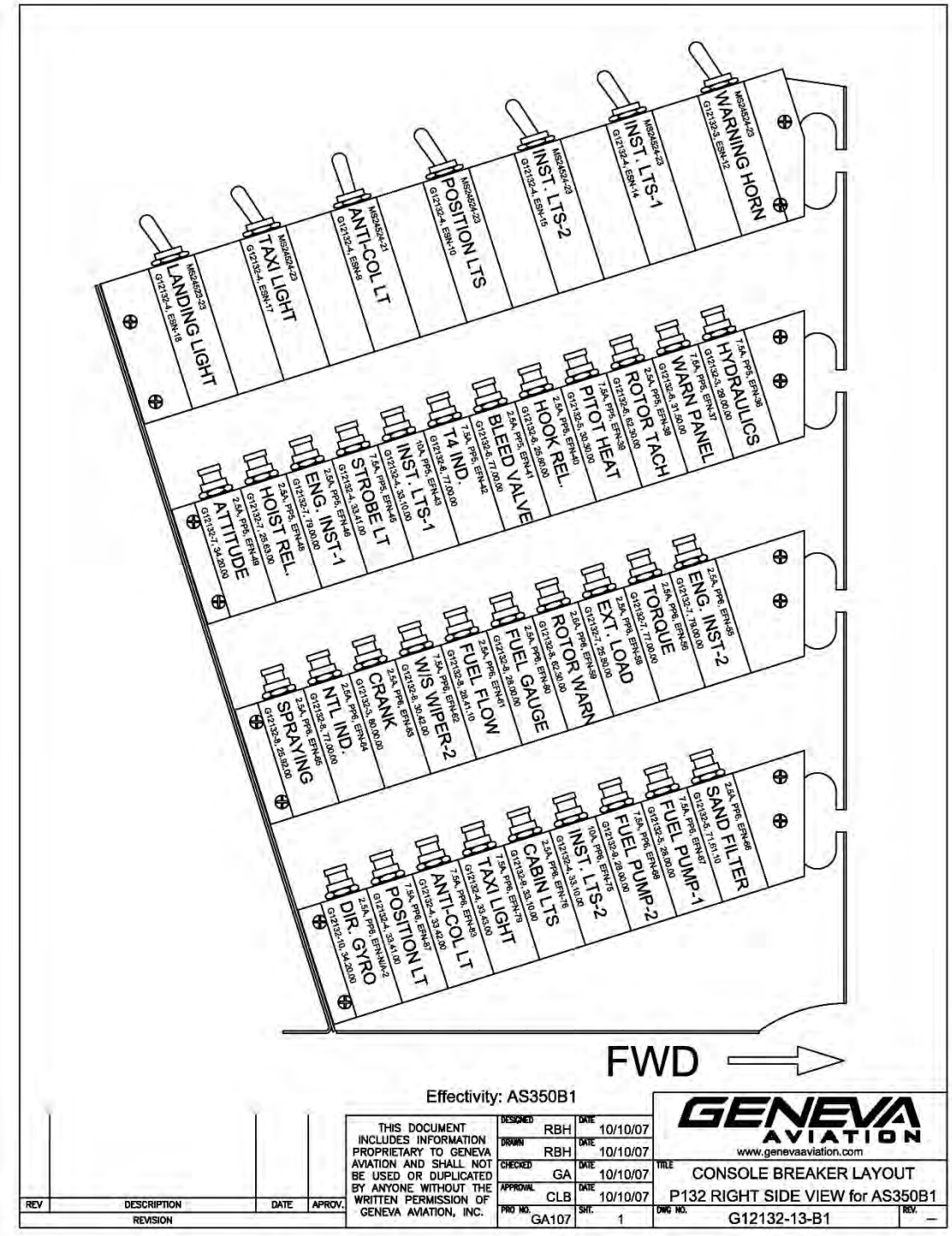

Figure 51: P132 Console RH Side CB Layout (G12132-13-B1 Rev --)
Effectivity: AS350B1

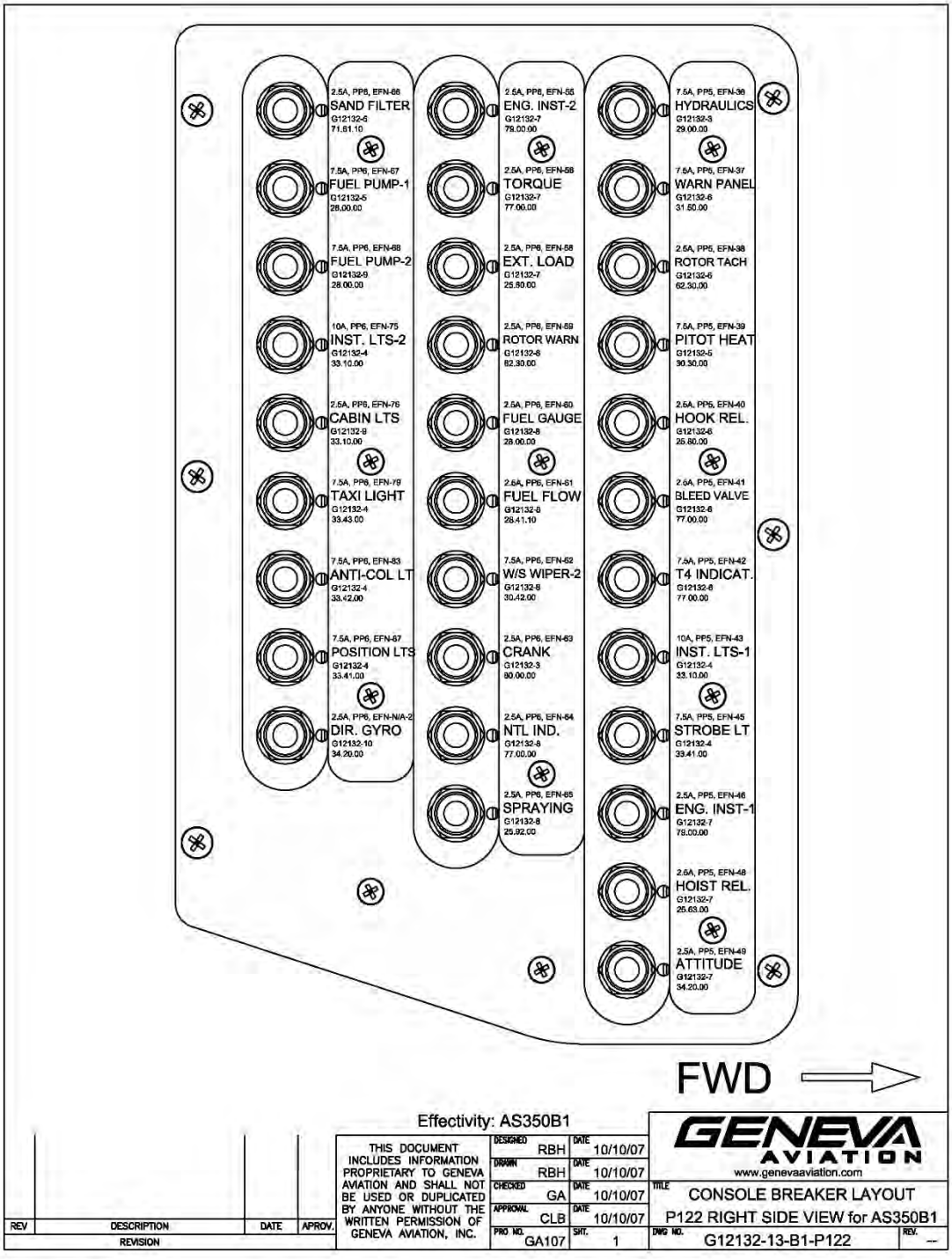

Figure 52: P122 Console RH Side CB Layout (G12132-13-B1-P122 Rev --)
Effectivity: AS350B1

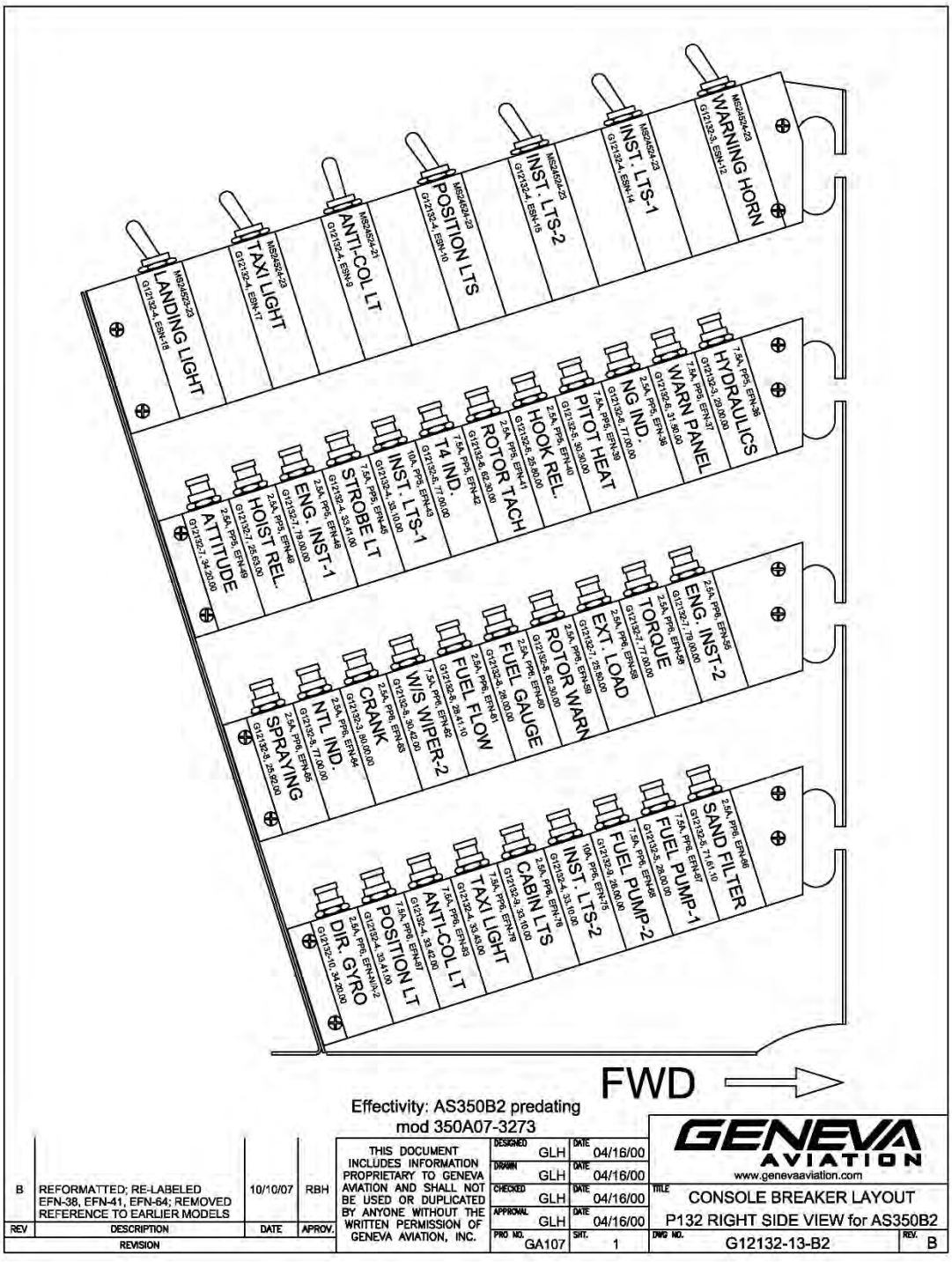

Figure 53: P132 Console RH Side CB Layout (G12132-13-B2 Rev B)
Effectivity: AS350B2 Pre-MOD 350A07-3273

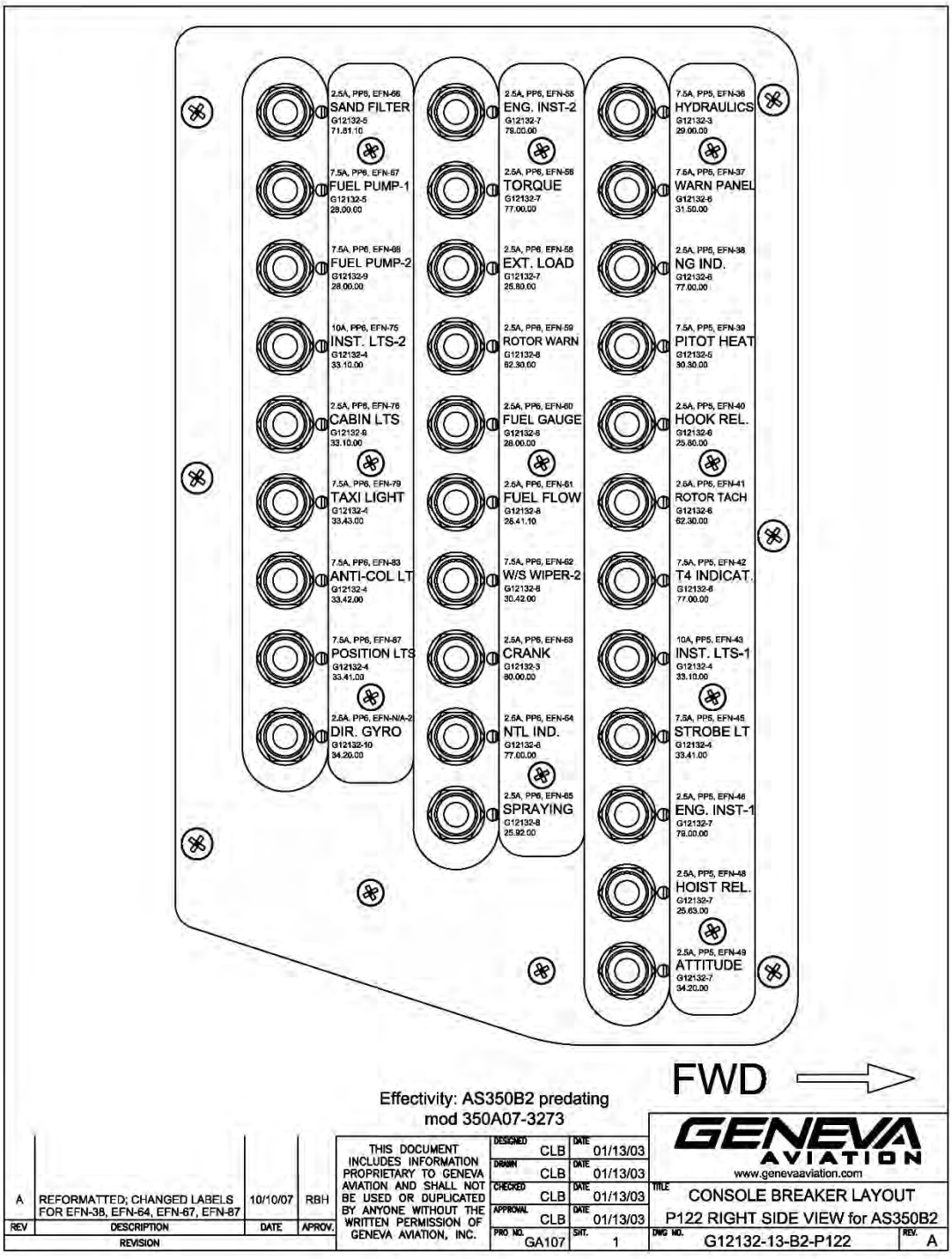

Figure 54: P122 Console RH Side CB Layout (G12132-13-B2-P122 Rev A)
Effectivity: AS350B2 Pre-MOD 350A07-3273

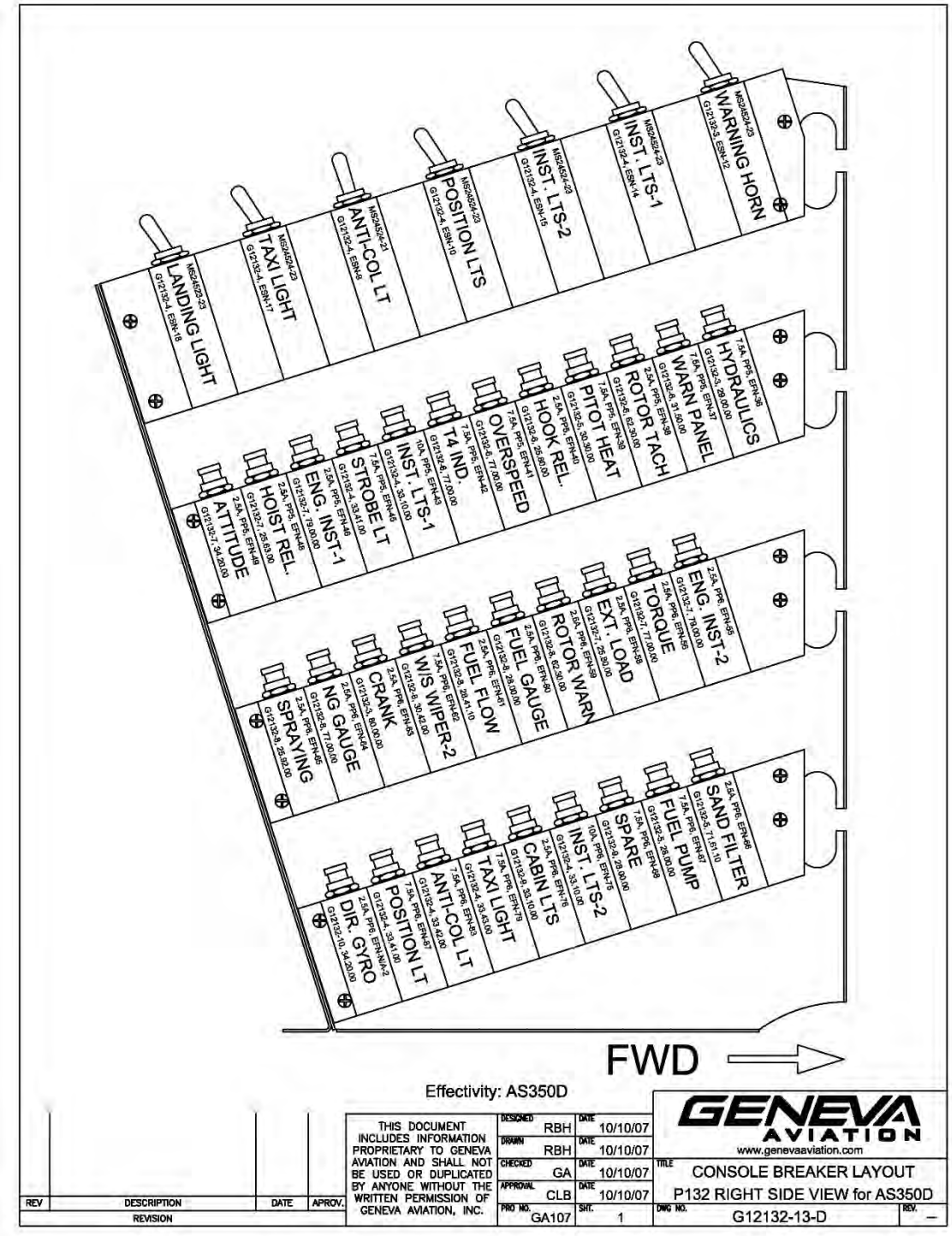

Figure 55: P132 Console RH Side CB Layout (G12132-13-D Rev --)
Effectivity: AS350D

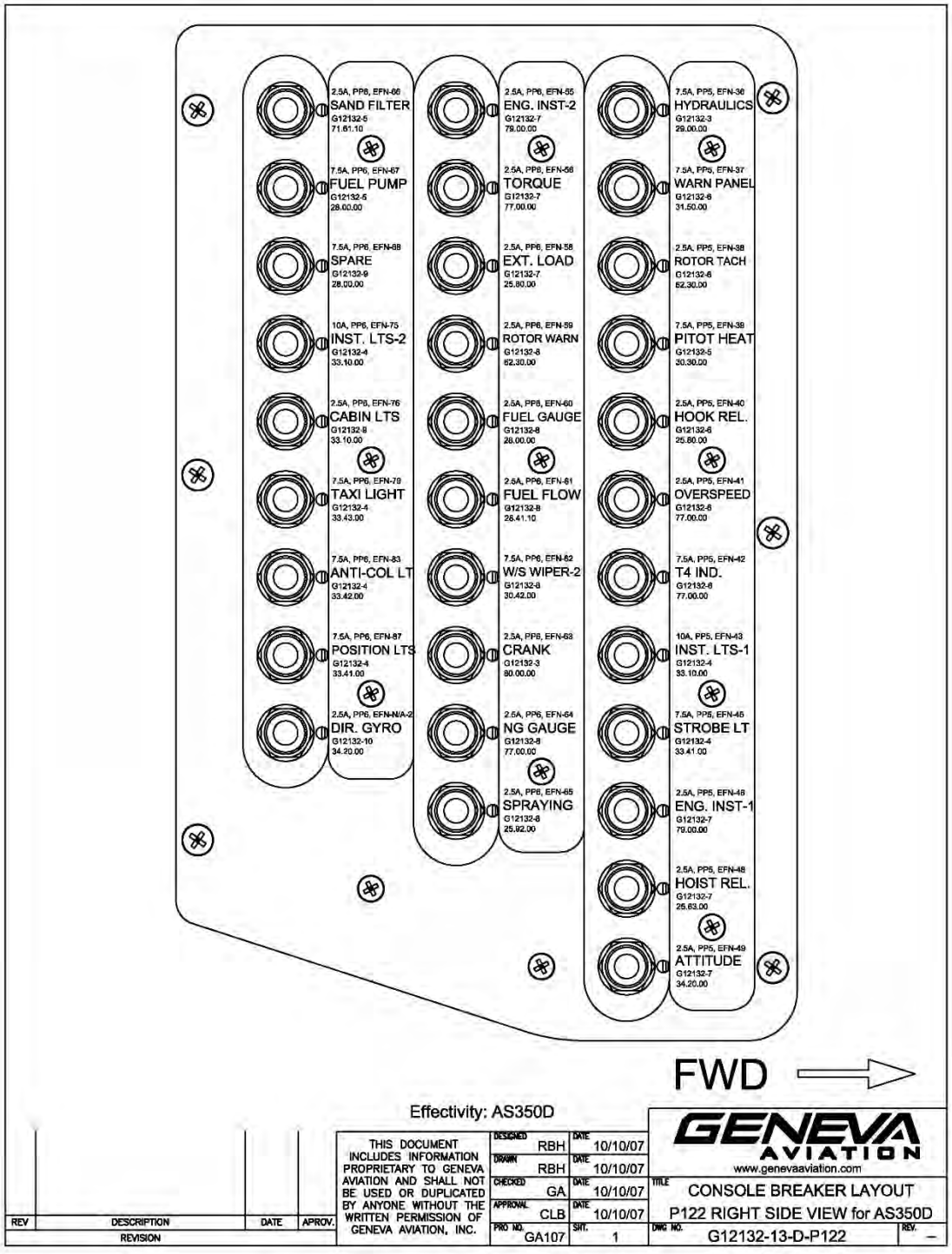

Figure 56: P122 Console RH Side CB Layout (G12132-13-D-P122 Rev --)
Effectivity: AS350D

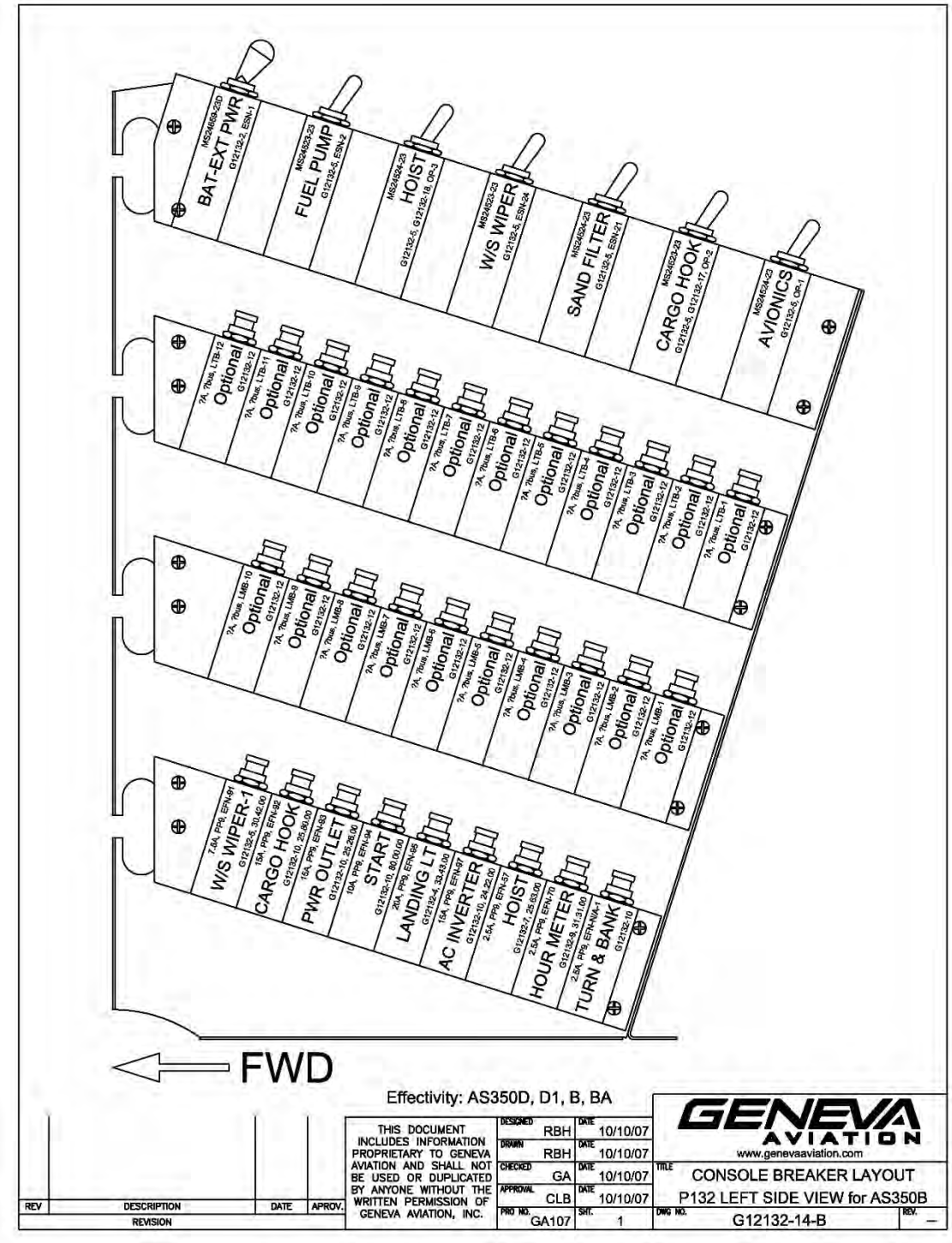

Figure 57: P132 Console LH Side CB Layout (G12132-14-B Rev --)
Effectivity: AS350D, D1, B, BA

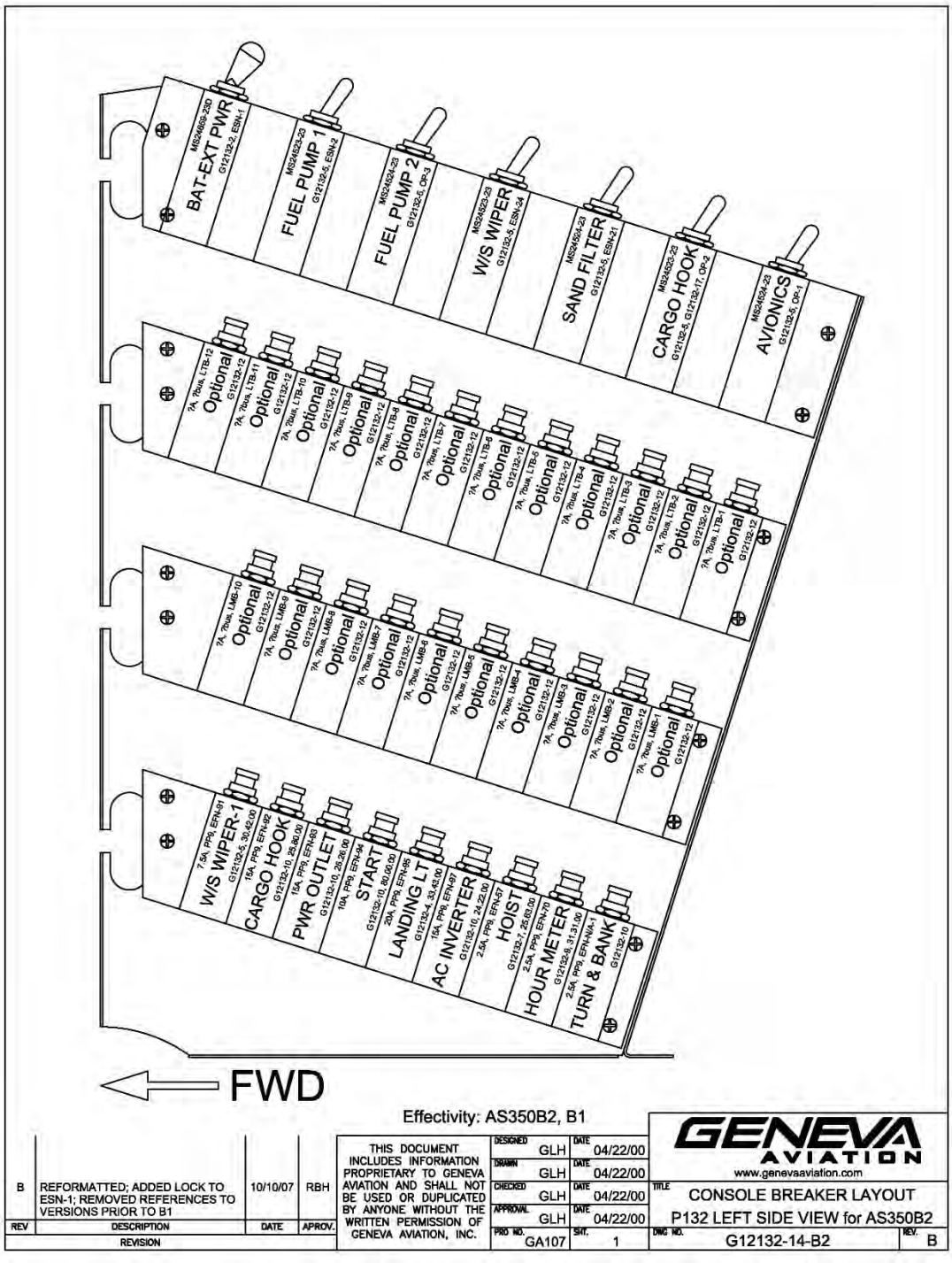

Figure 58: P132 Console LH Side CB Layout (G12132-14-B2 Rev B)
Effectivity: AS350B1, B2

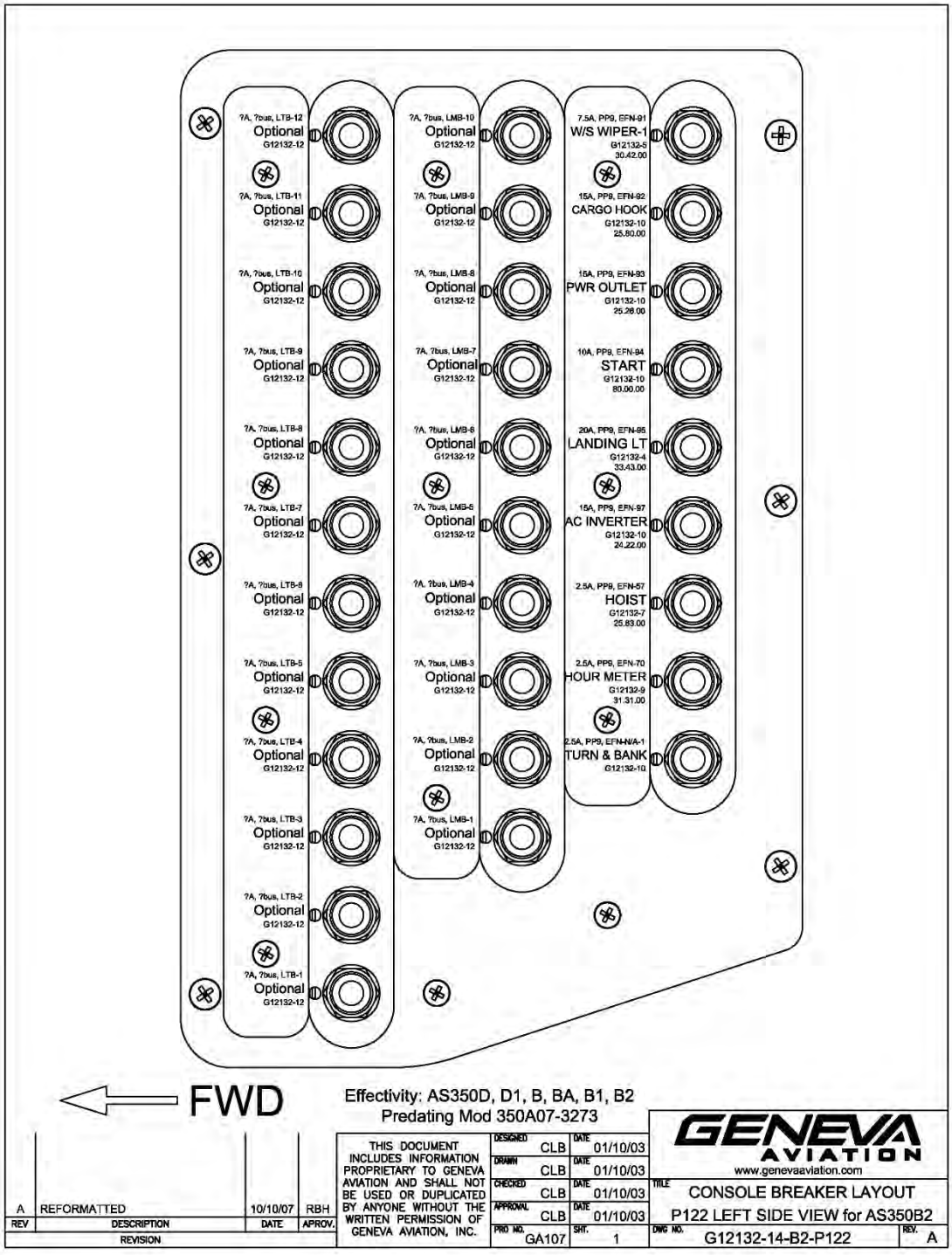

Figure 59: P122 Console LH Side CB Layout (G12132-14-B2-P122 Rev A)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

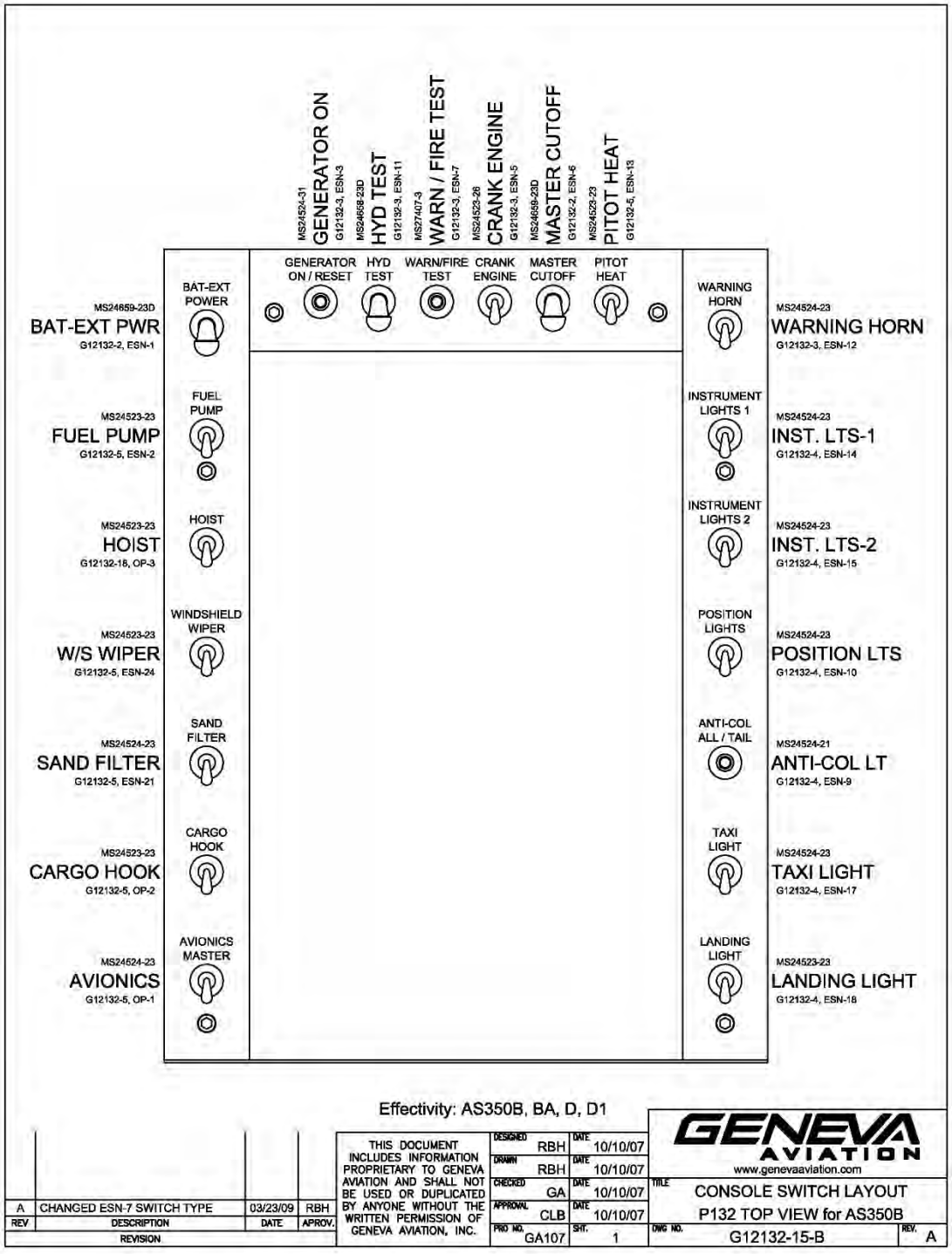

Figure 60: P132 Console Switch Layout (G12132-15-B Rev A)
Effectivity: AS350D, D1, B, BA

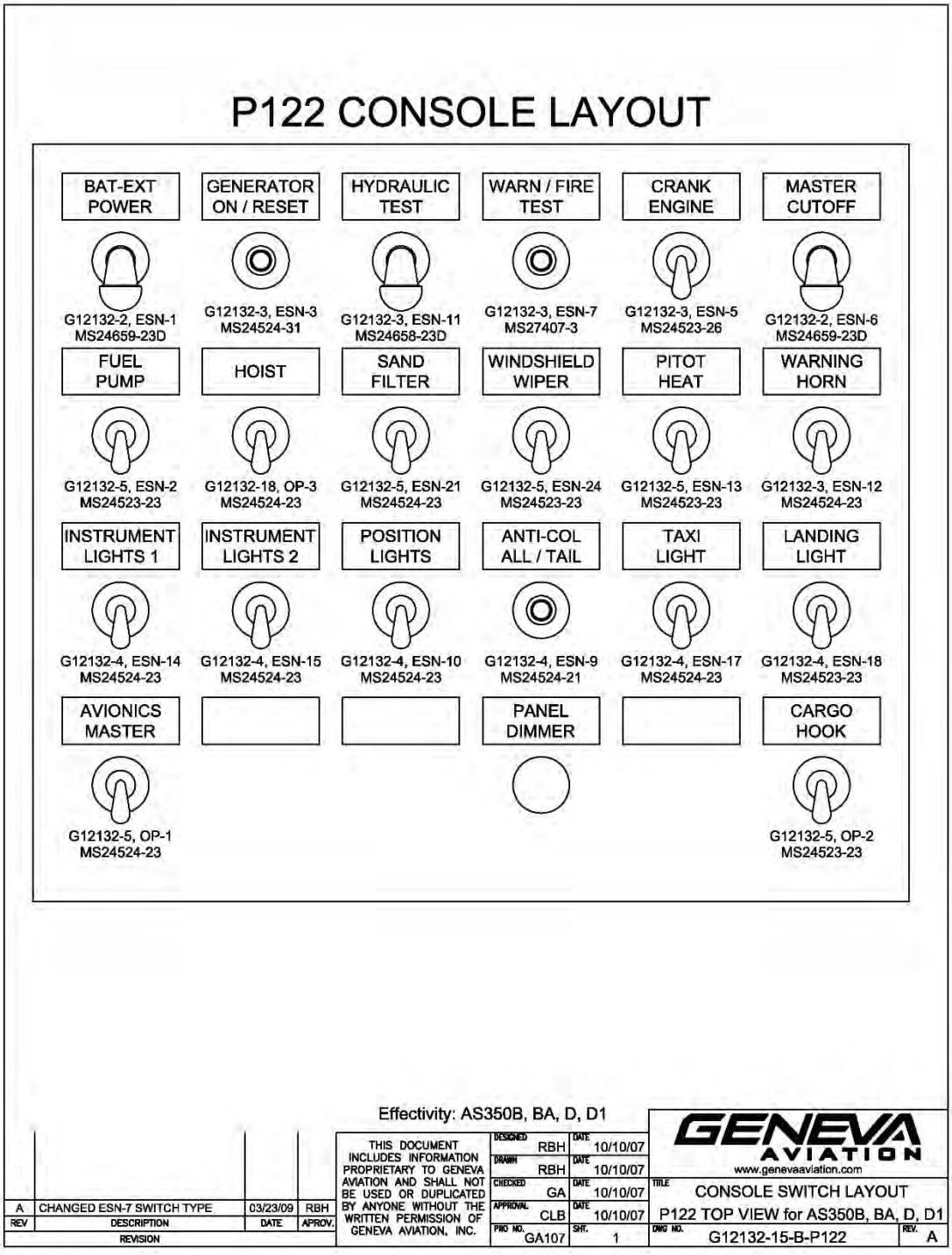

Figure 61: P122 Console Switch Layout (G12132-15-B-P122 Rev A)
Effectivity: AS350D, D1, B, BA

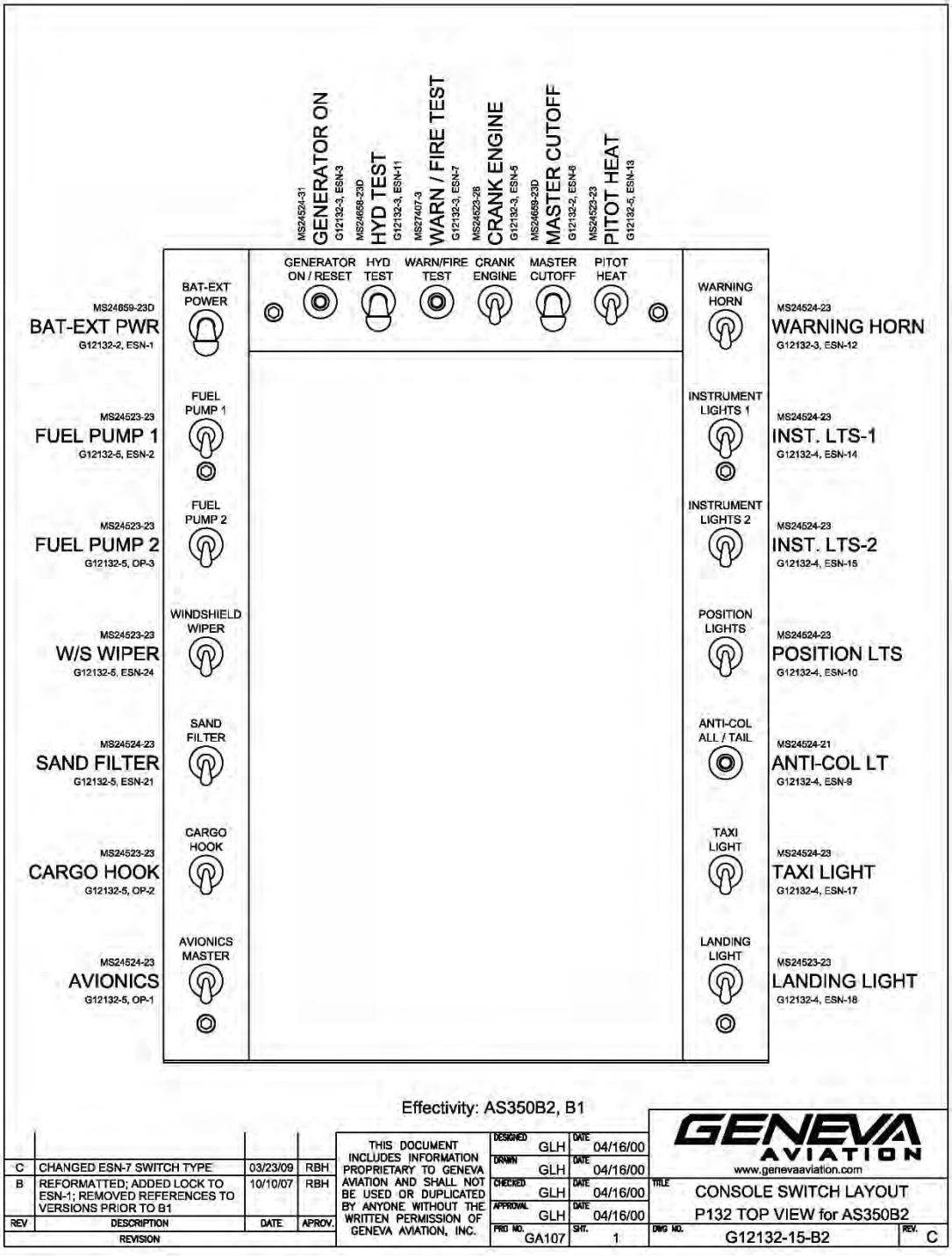

Figure 62: P132 Console Switch Layout (G12132-15-B2 Rev C)
Effectivity: AS350B1, B2

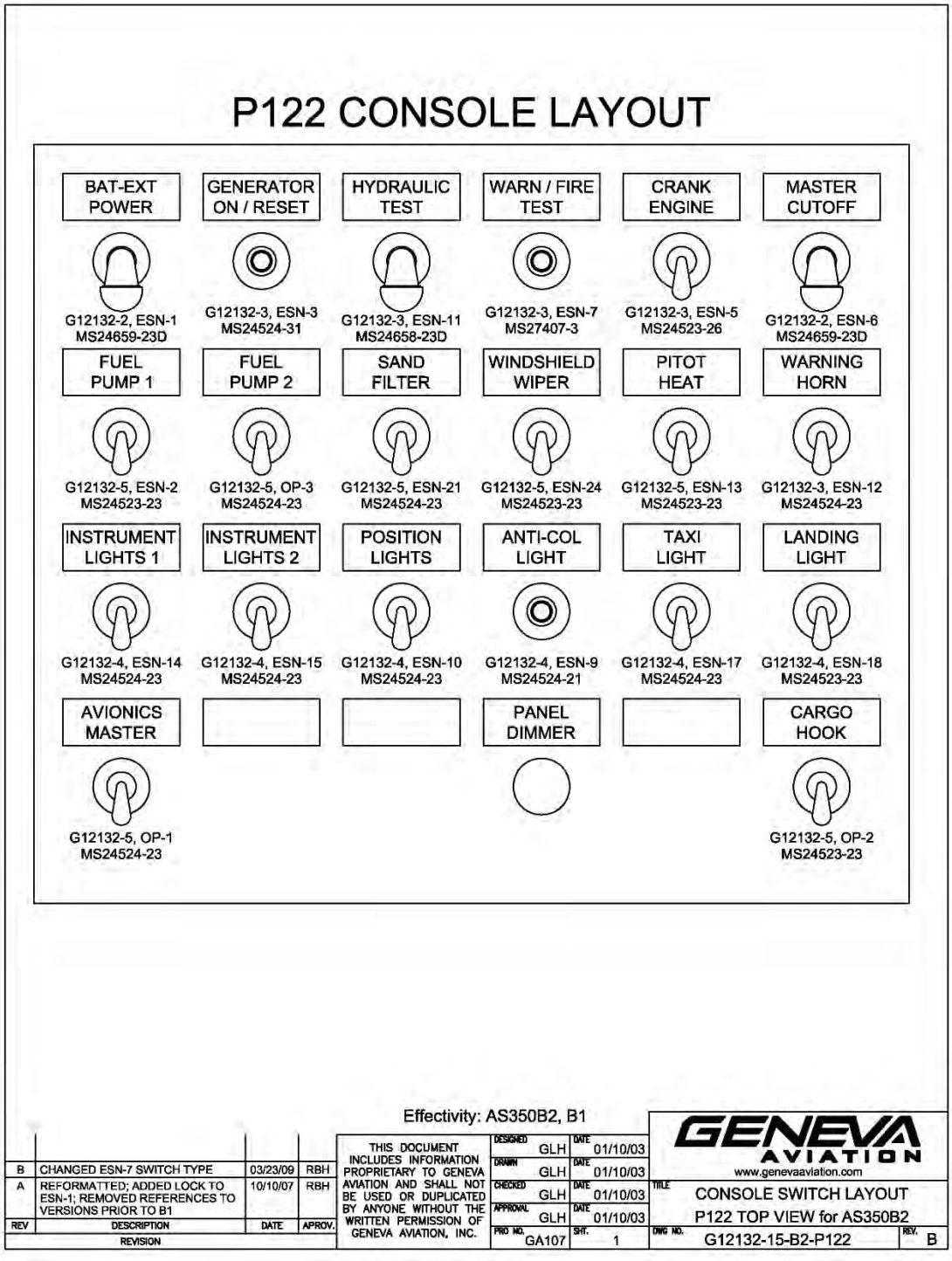

Figure 63: P122 Console Switch Layout (G12132-15-B2-P122 Rev B)
Effectivity: AS350B1, B2

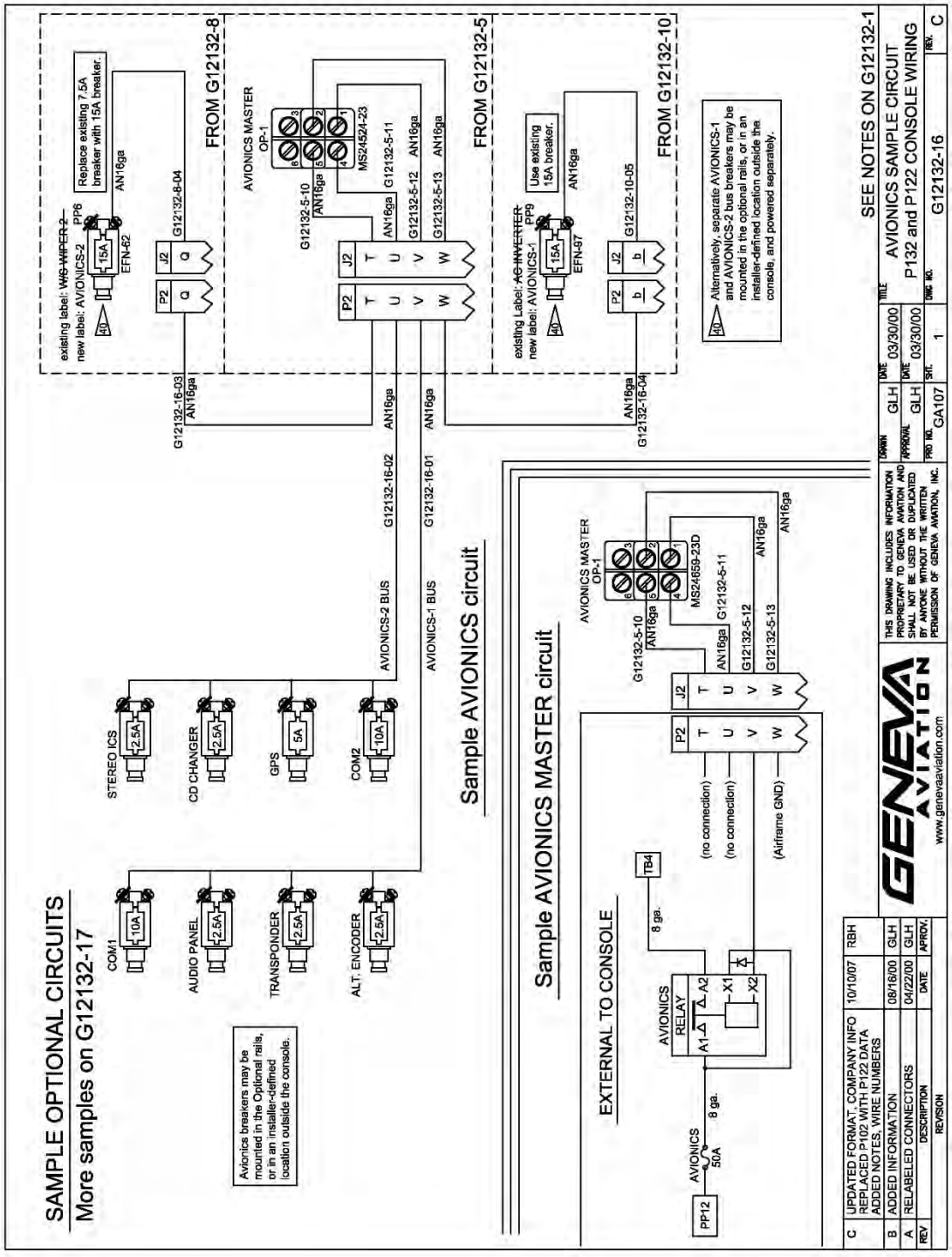

Figure 64: Console Avionics Sample Circuit (G12132-16 Rev C)
Effectivity: AS350D, D1, B, BA, B1, B2 and B3

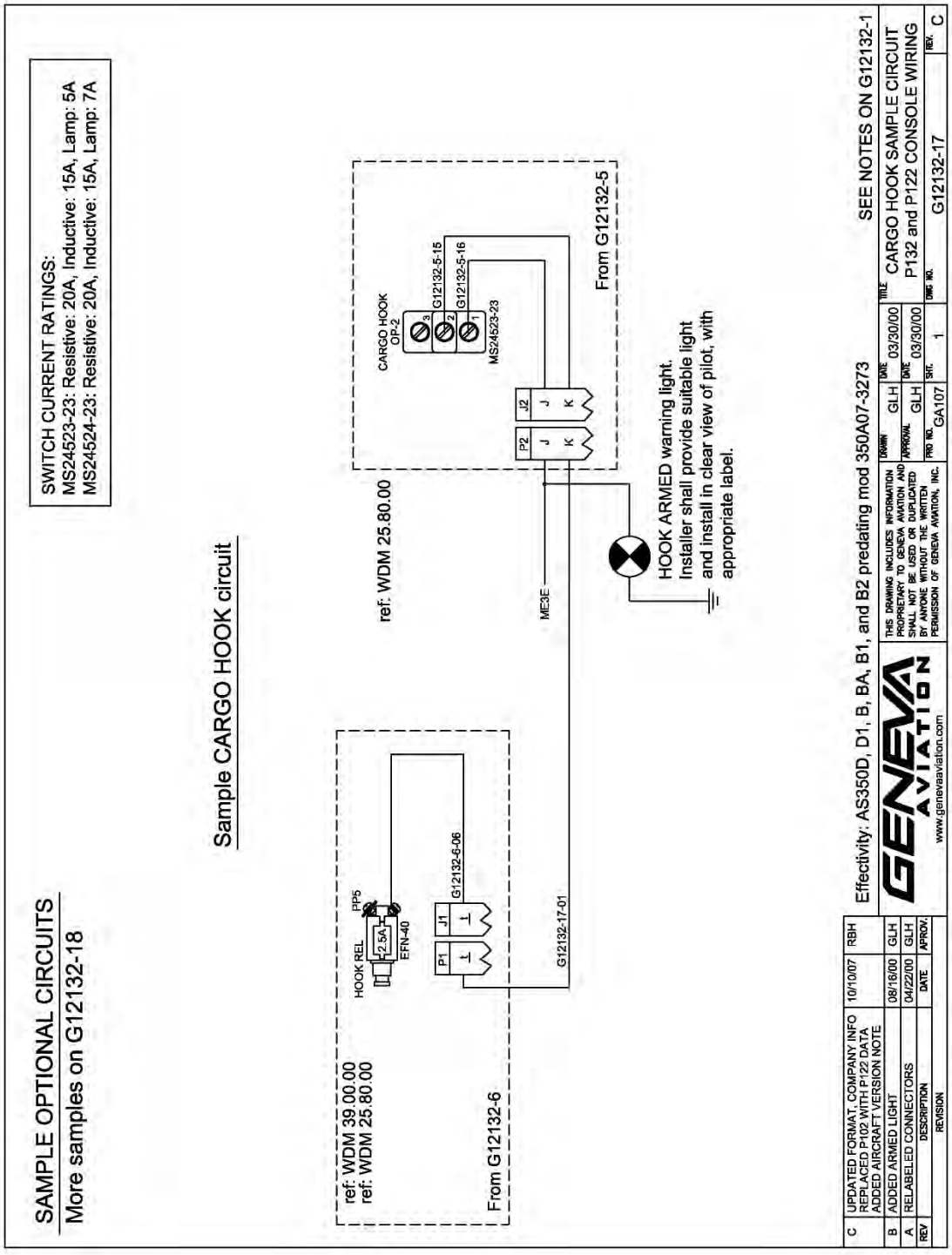

Figure 65: Cargo Hook Sample Circuit (G12132-17 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

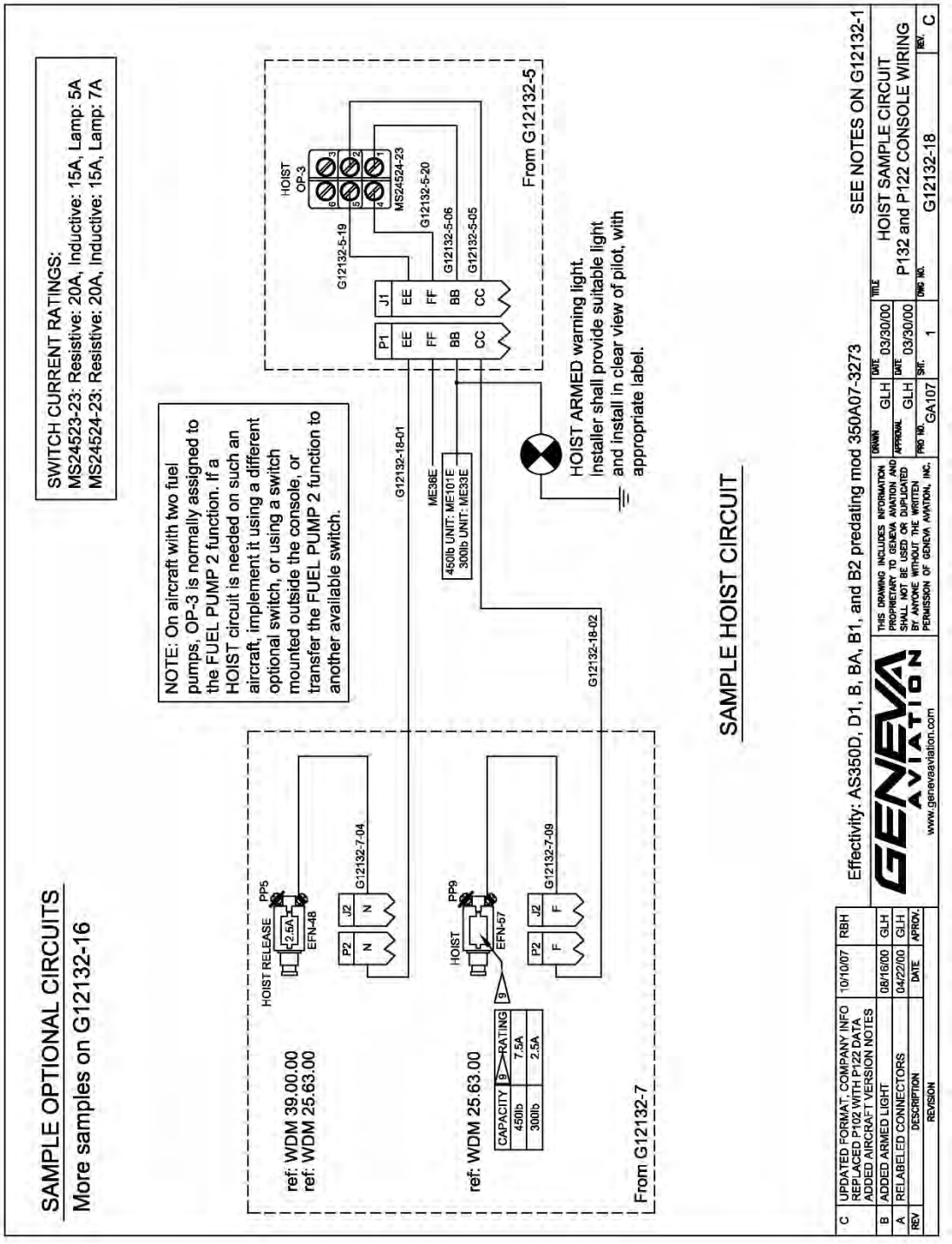

Figure 66: Hoist Sample Circuit (G12132-18 Rev C)
Effectivity: AS350D, D1, B, BA, B1 and B2 Pre-MOD 350A07-3273

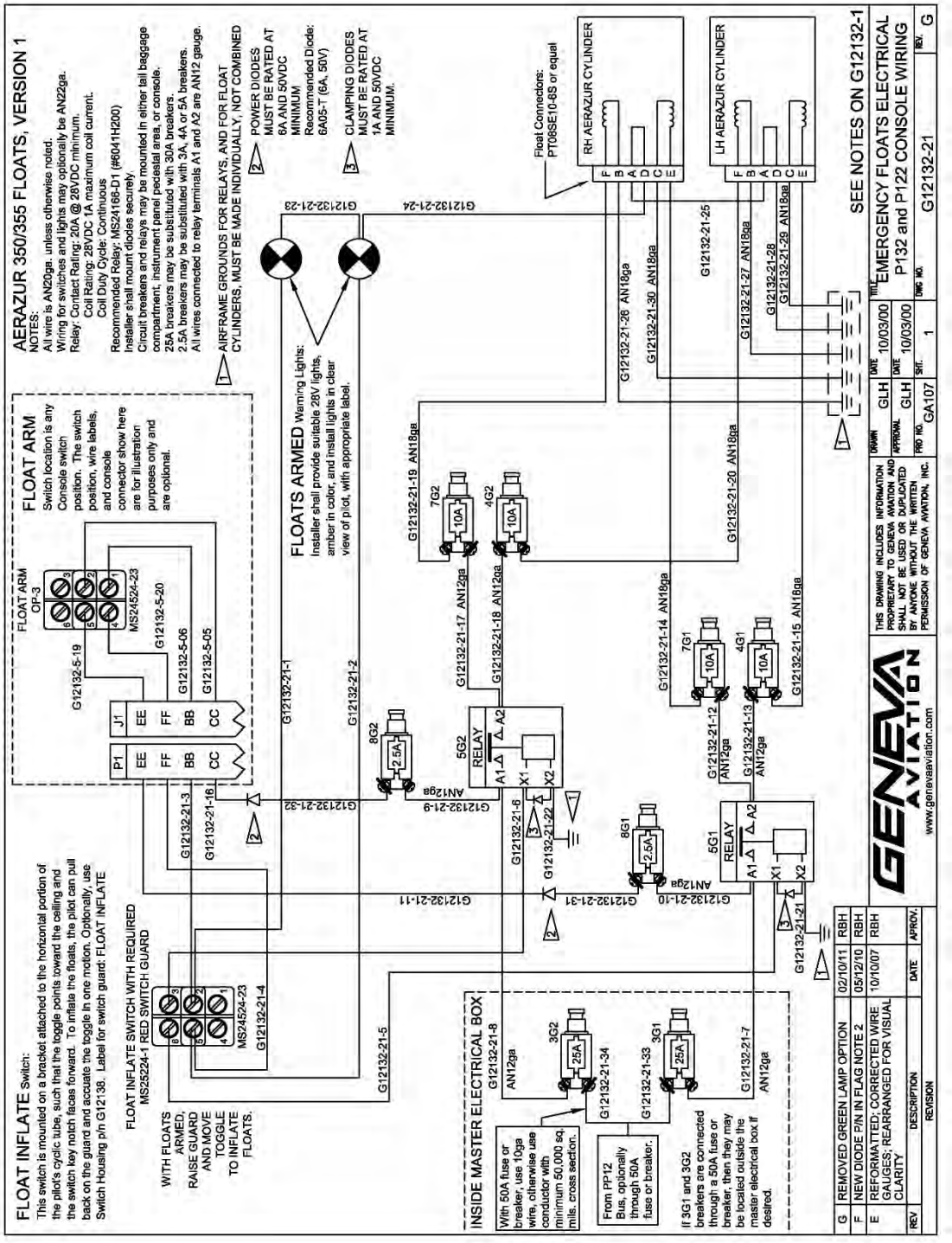

Figure 67: Emergency Floats Circuit (G12132-21 Rev G)
Effectivity: AS350D, D1, B, BA, B1 , B2 and B3

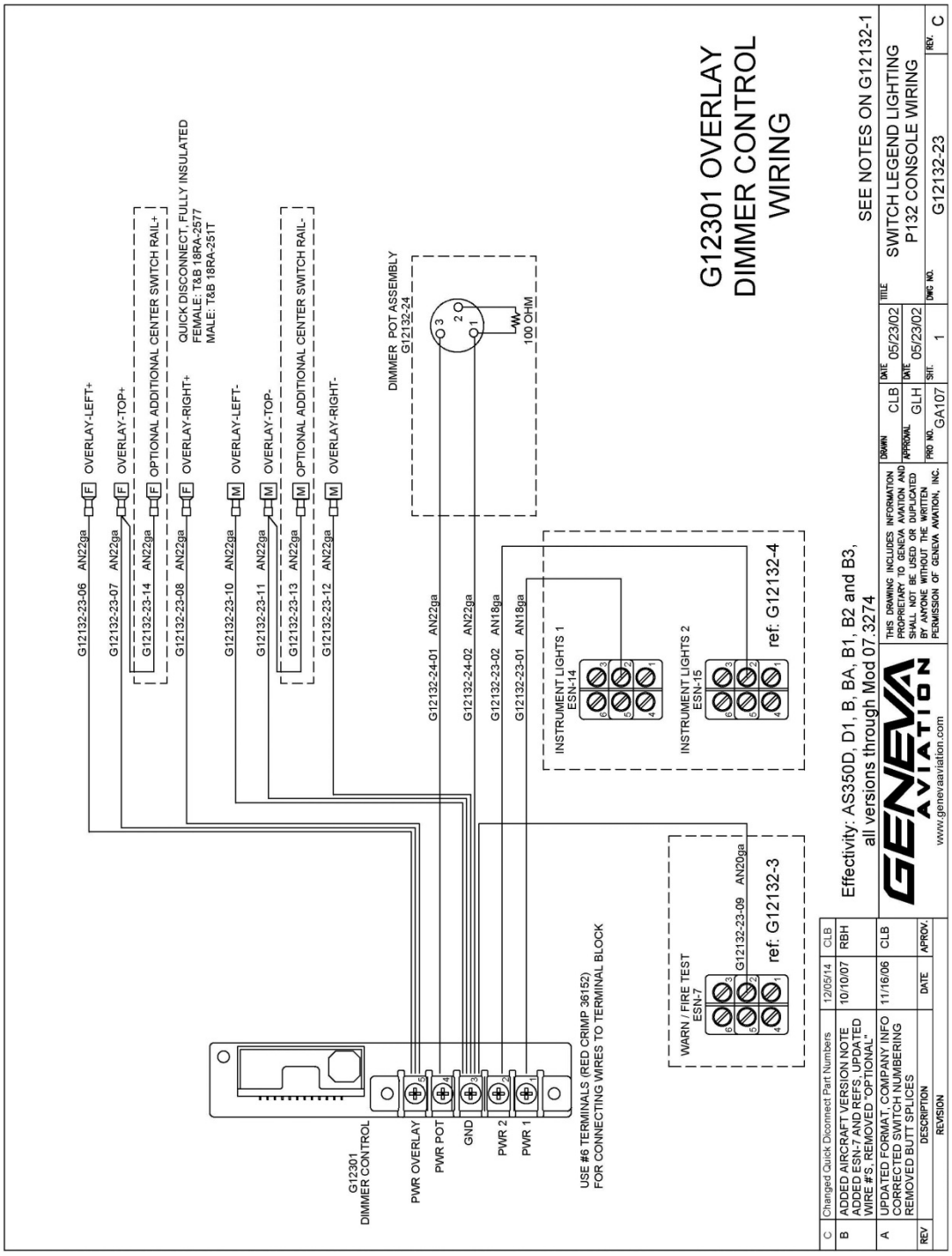

Figure 68: P132 Switch Legend Lighting (G12132-23 Rev C)
Effectivity: AS350D, D1, B, BA, B1 , B2 and B3 Thru MOD 350A07-3274

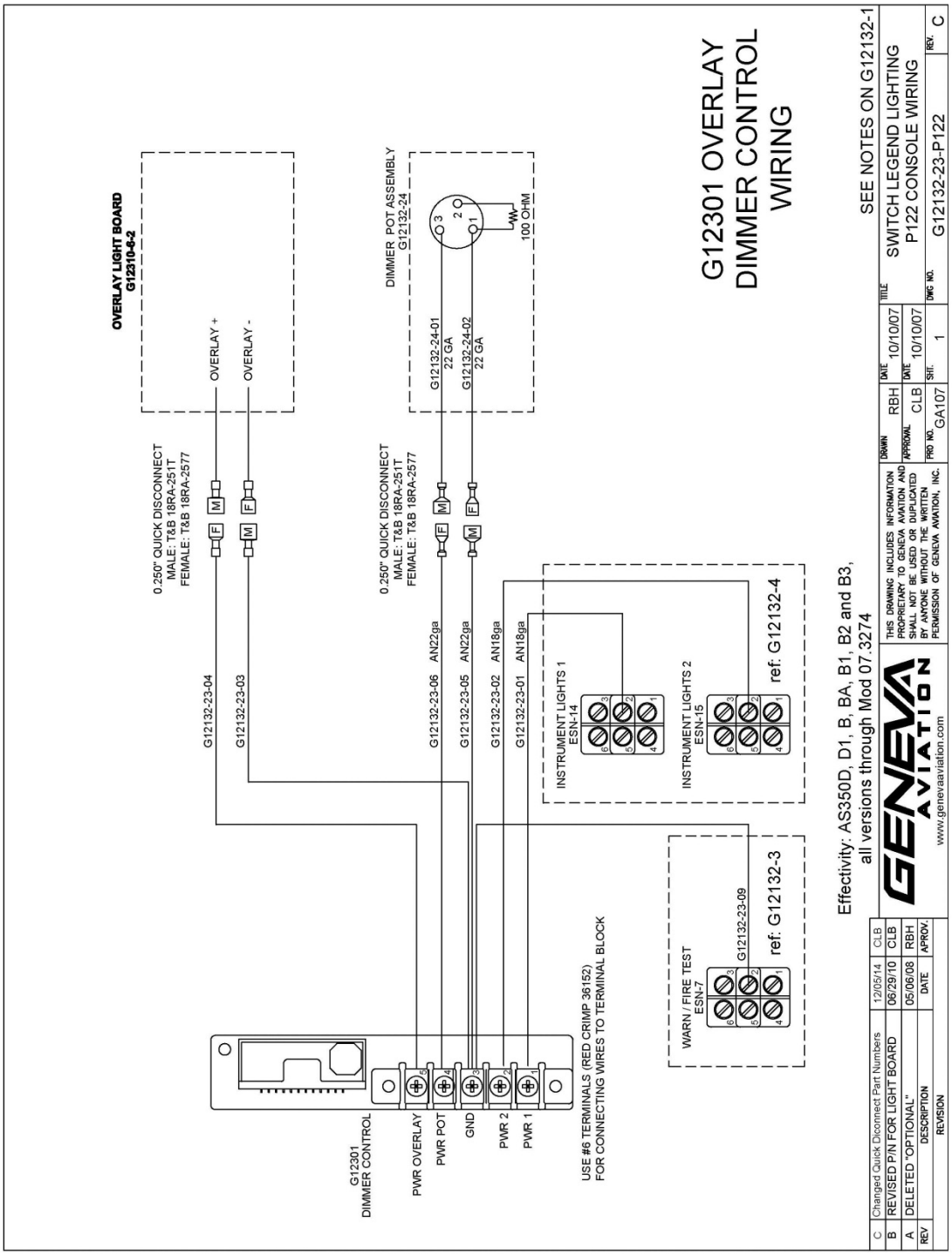

Figure 69: P122 Switch Legend Lighting (G12132-23-P122 Rev C)
Effectivity: AS350D, D1, B, BA, B1 , B2 and B3 Thru MOD 350A07-3274

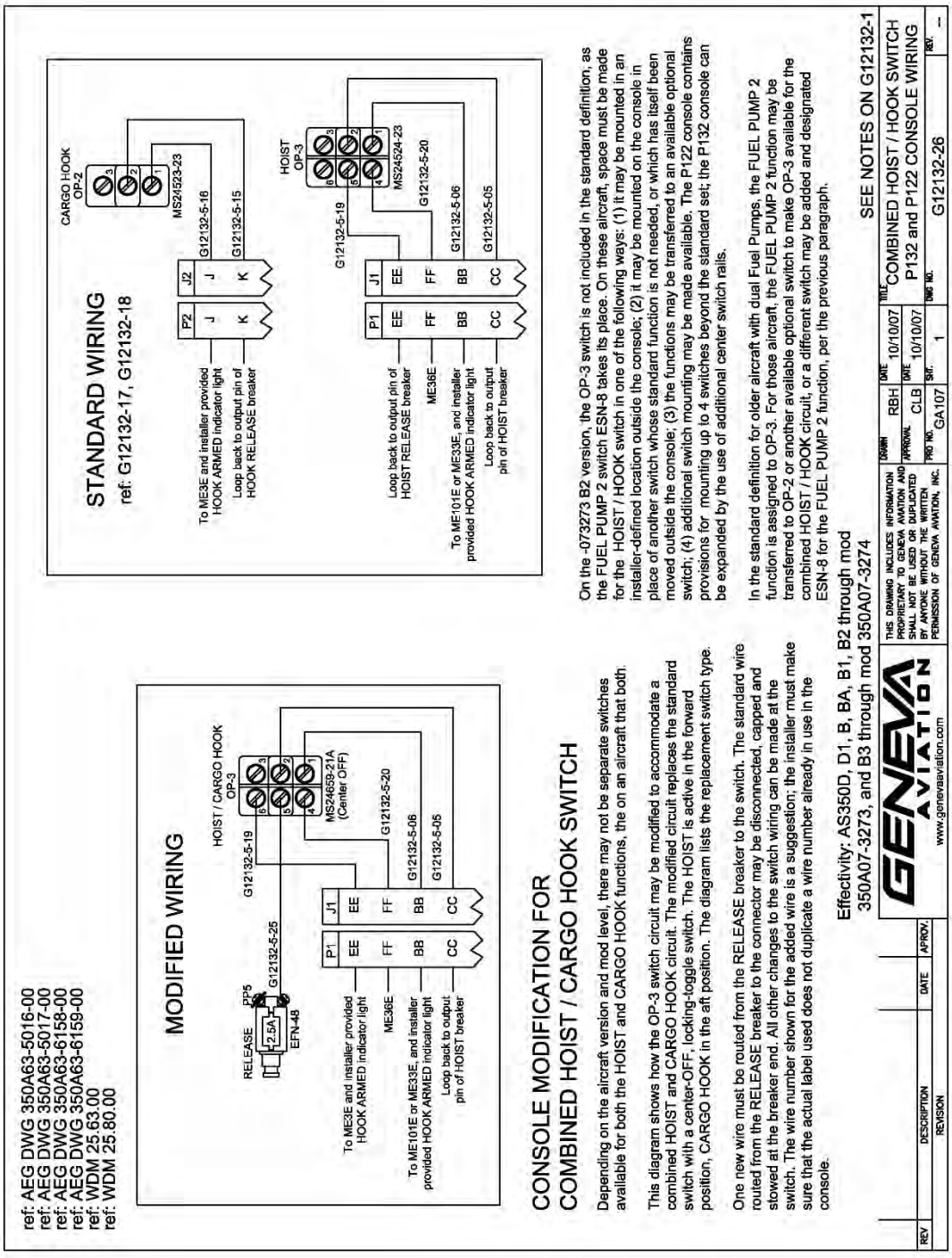

Figure 70: Combined Hoist / Hook Switch Circuit (G12132-26 Rev --)
Effectivity: AS350D, D1, B, BA, B1, B2 Thru MOD 350A07-3273
and B3 Thru MOD 350A07-3274

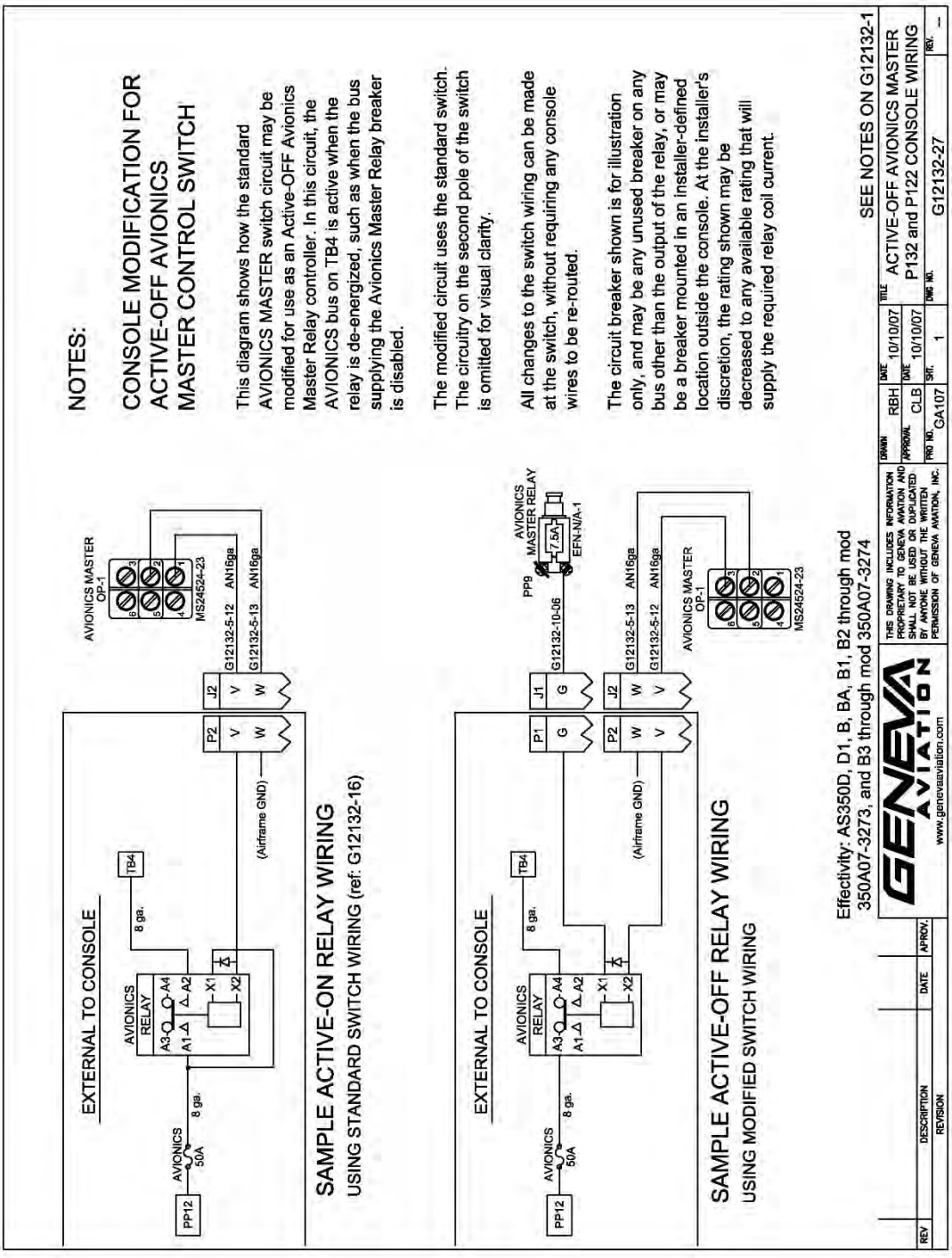

Figure 71: Active-Off Avionics Master Switch Circuit (G12132-27 Rev --)
Effectivity: AS350D, D1, B, BA, B1, B2 Thru MOD 350A07-3273
and B3 Thru MOD 350A07-3274

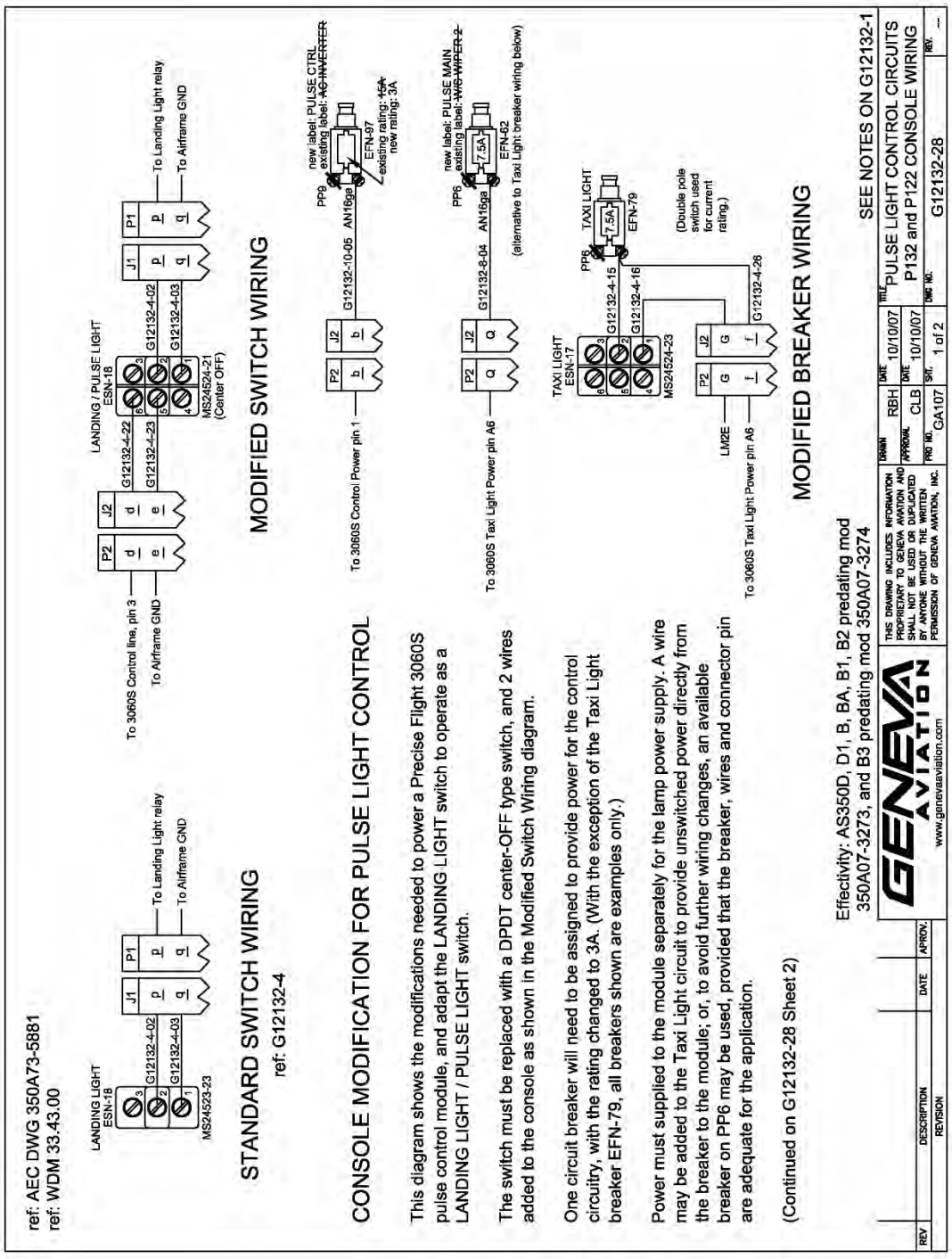

Figure 72: Pulse Light Control Circuits (G12132-28, Sht 1 Rev --)
Effectivity: AS350D, D1, B, BA, B1, B2 Thru MOD 350A07-3273 and B3 Thru MOD 350A07-3274

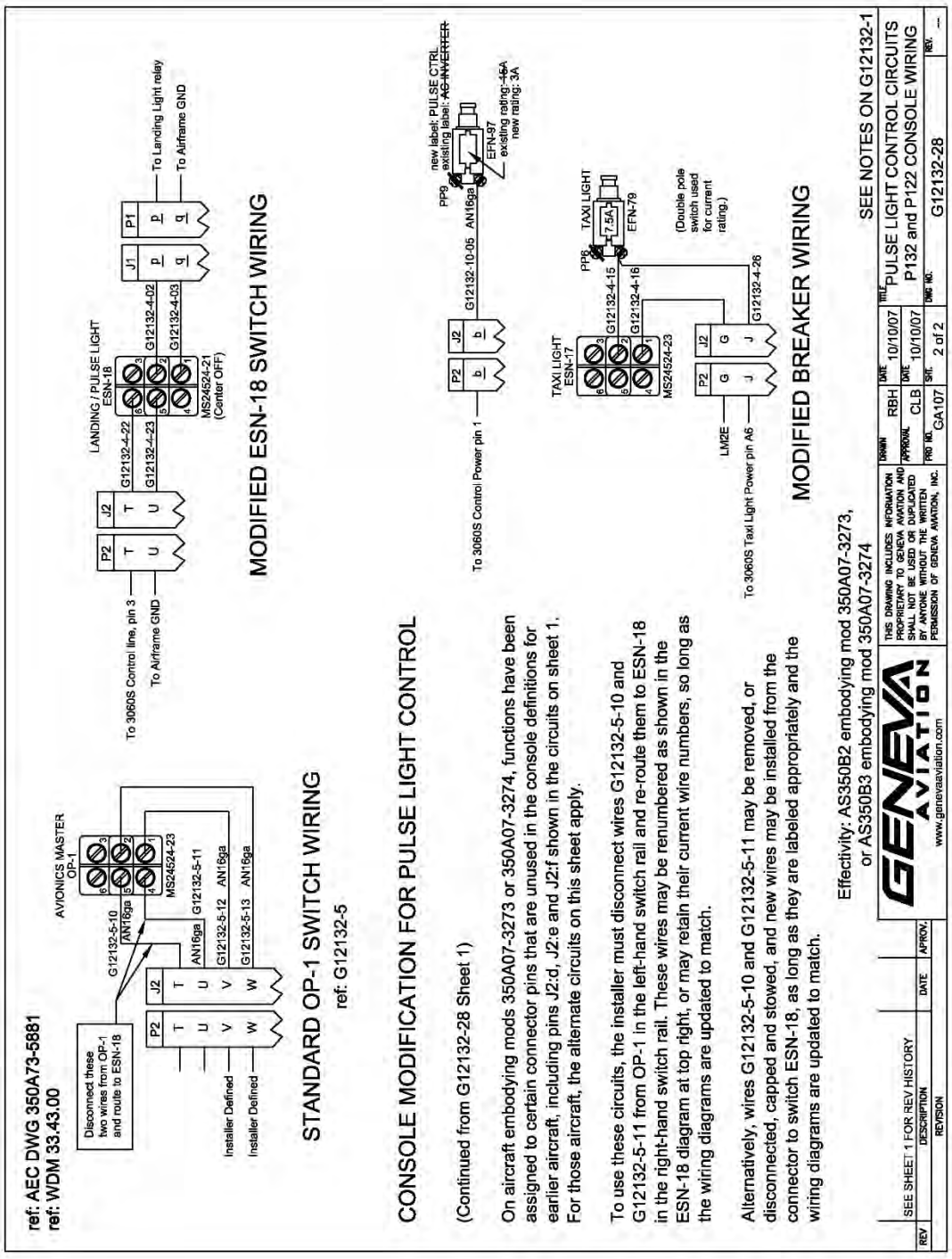

Figure 73: Pulse Light Control Circuits (G12132-28, Sht 2 Rev --)
Effectivity: AS350B2 Pre-MOD 350A07-3273
and B3 Pre-MOD 350A07-3274

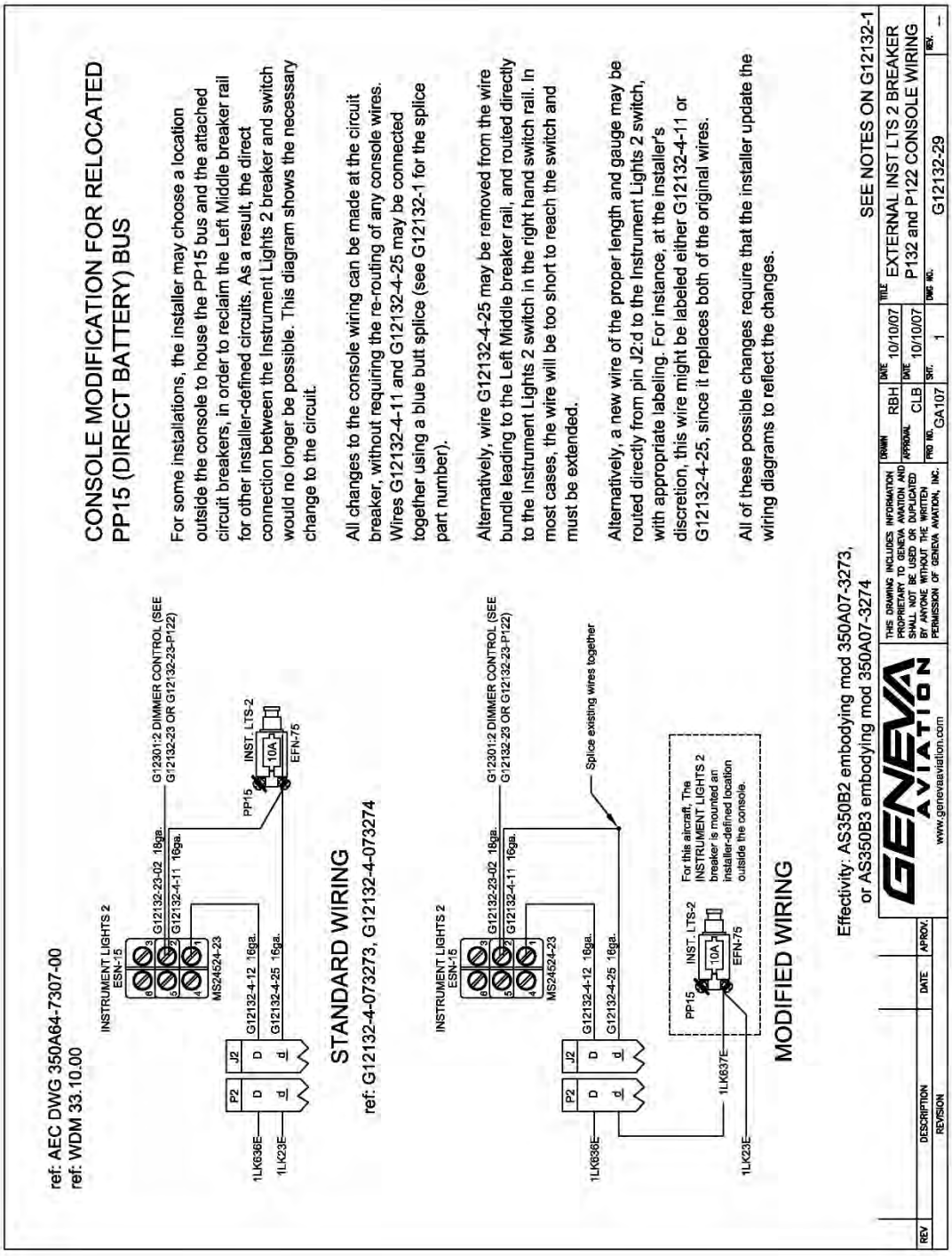

Figure 74: External Inst LTS 2 CB Circuit (G12132-29 Rev --)
Effectivity: AS350B2 With MOD 350A07-3273
and B3 With MOD 350A07-3274

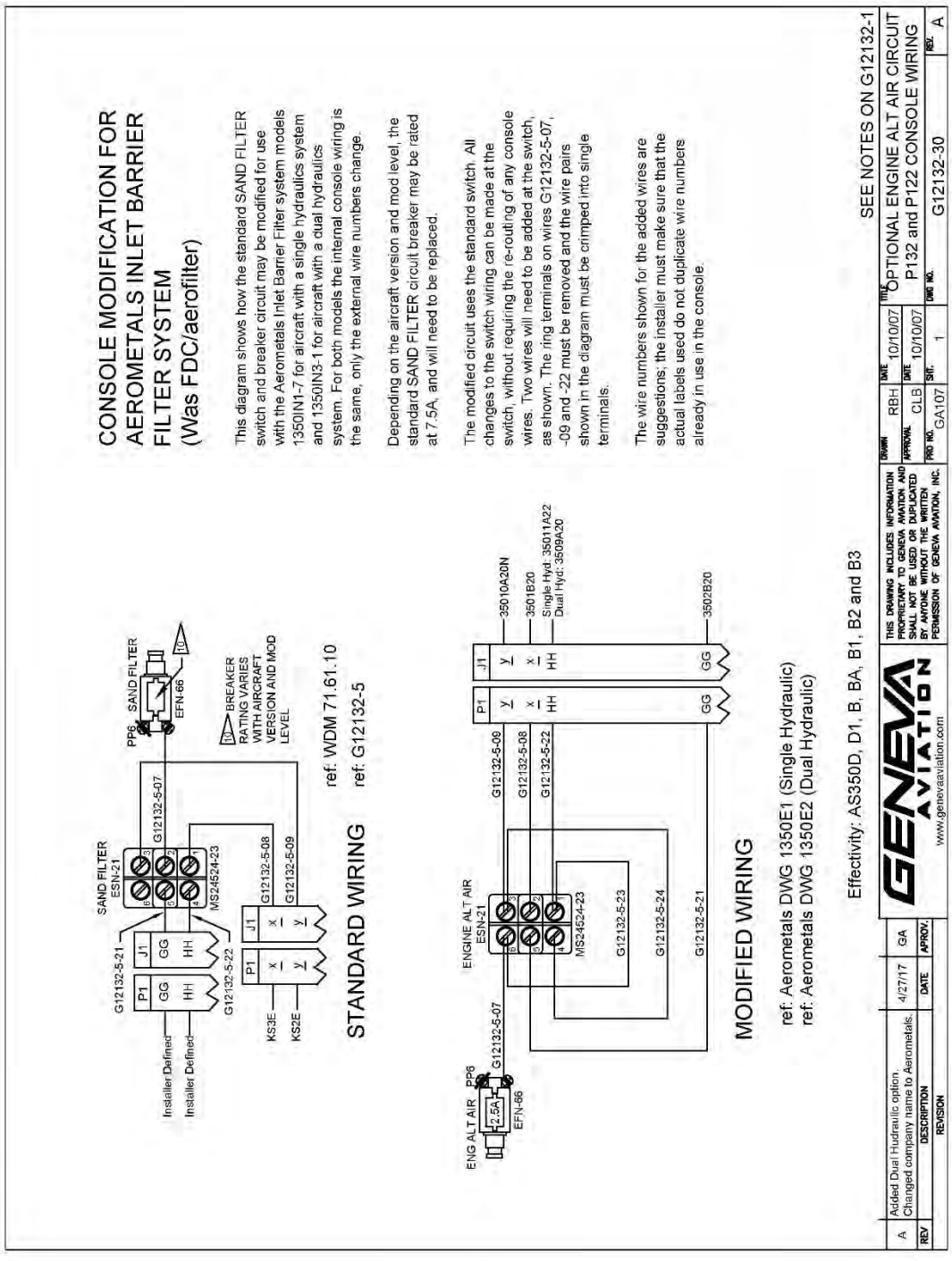

Figure 75: Optional Engine ALT AIR Circuits (G12132-30 Rev A)
Effectivity: AS350D, D1, B, BA, B1, B2 and B3

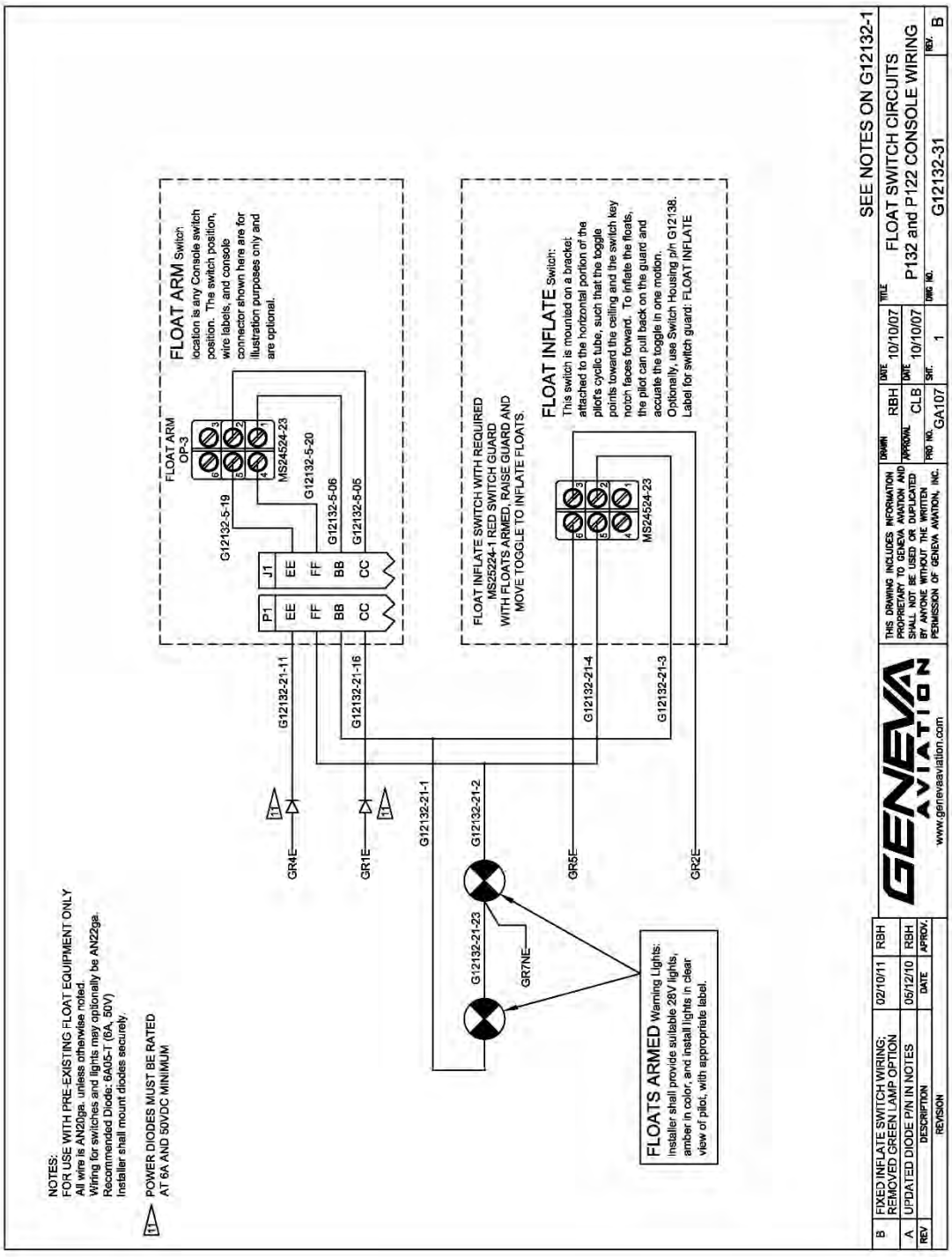

Figure 76: Float Switch Circuit (G12132-31 Rev B)
Effectivity: AS350D, D1, B, BA, B1 , B2 and B3 with pre-existing floats

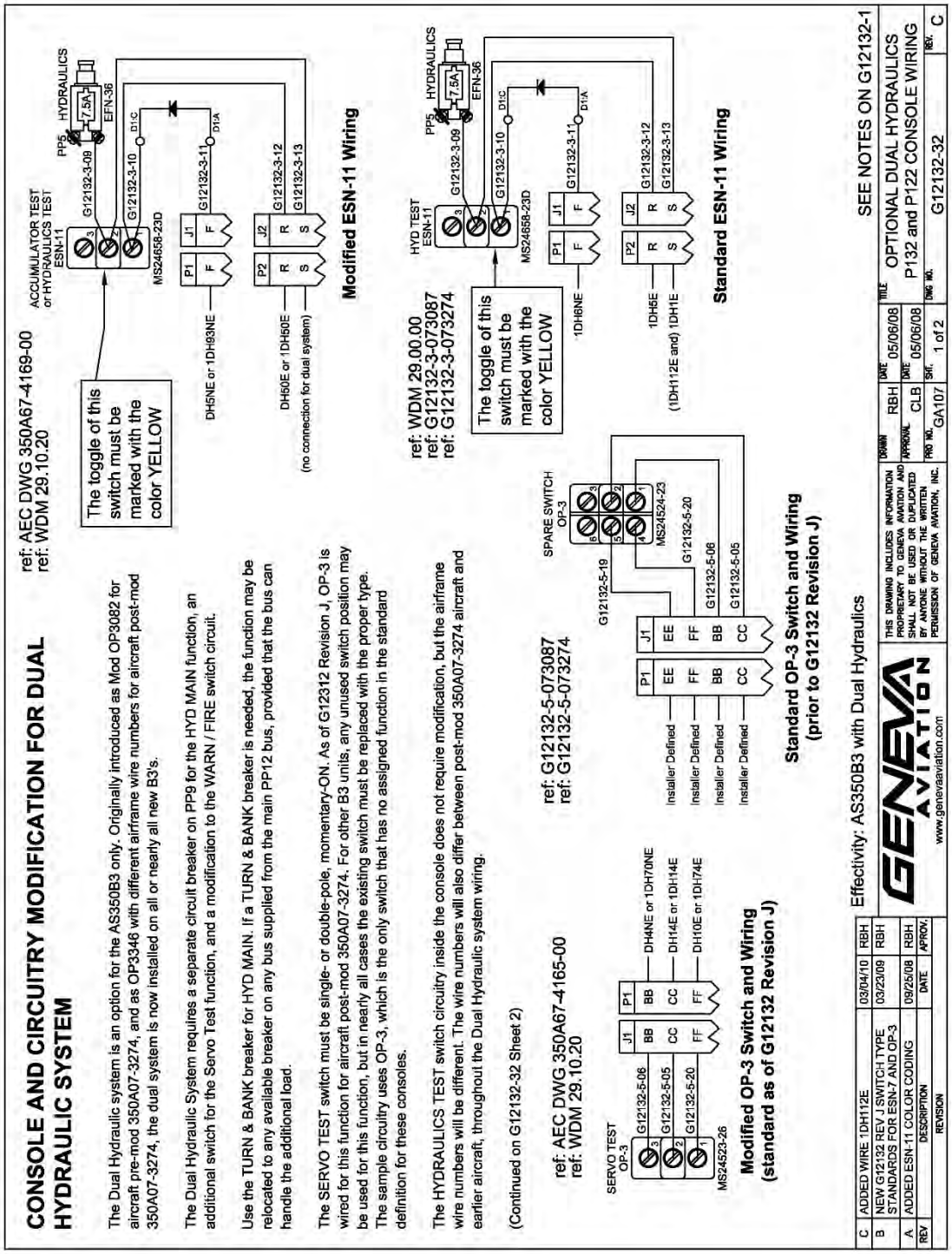

Figure 77: Optional Dual Hydraulics Circuit (G12132-32, Sht 1 Rev C)
Effectivity: AS350B3 with Dual Hydraulics

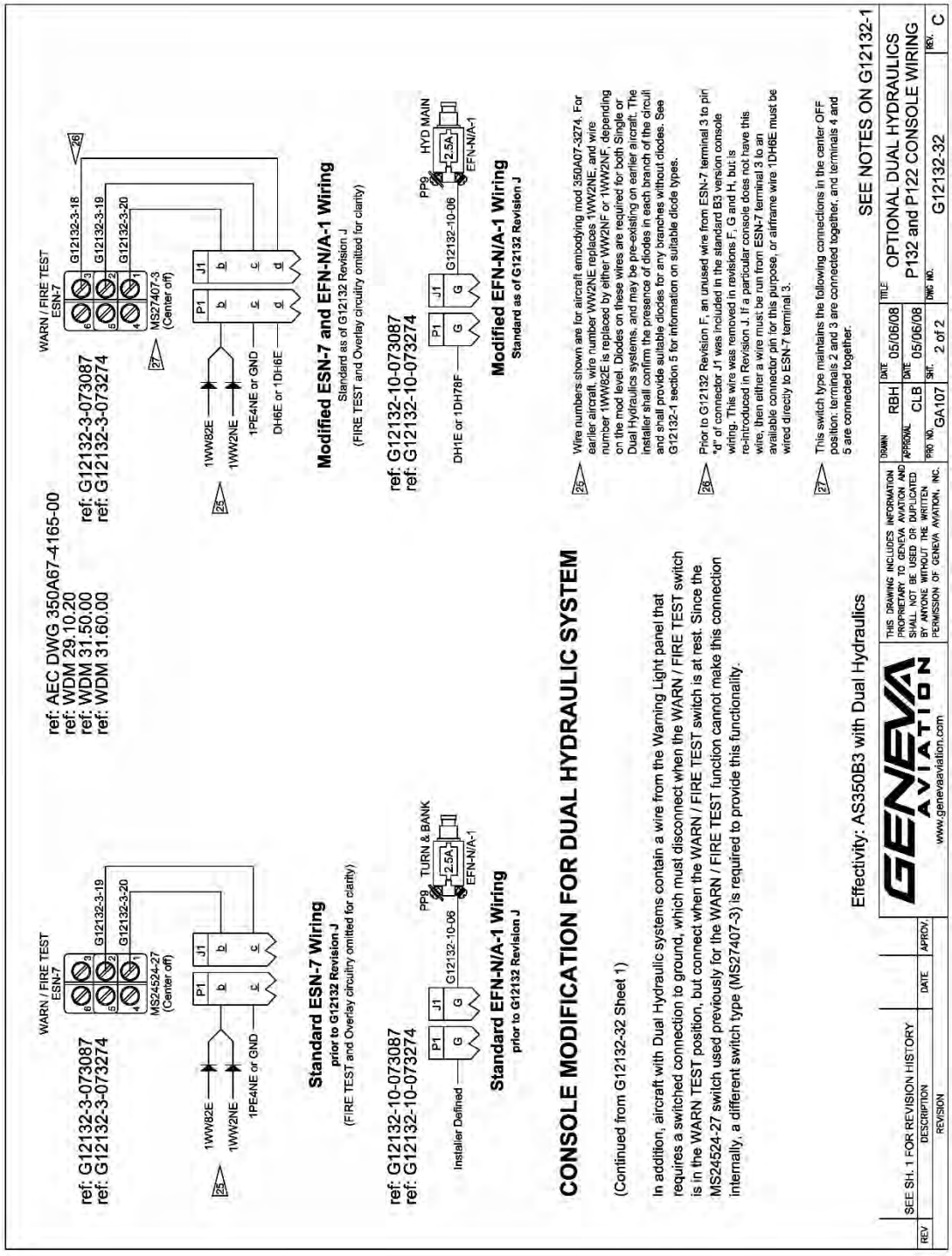

Figure 78: Optional Dual Hydraulics Circuit (G12132-32, Sht 2 Rev C)
Effectivity: AS350B3 with Dual Hydraulics

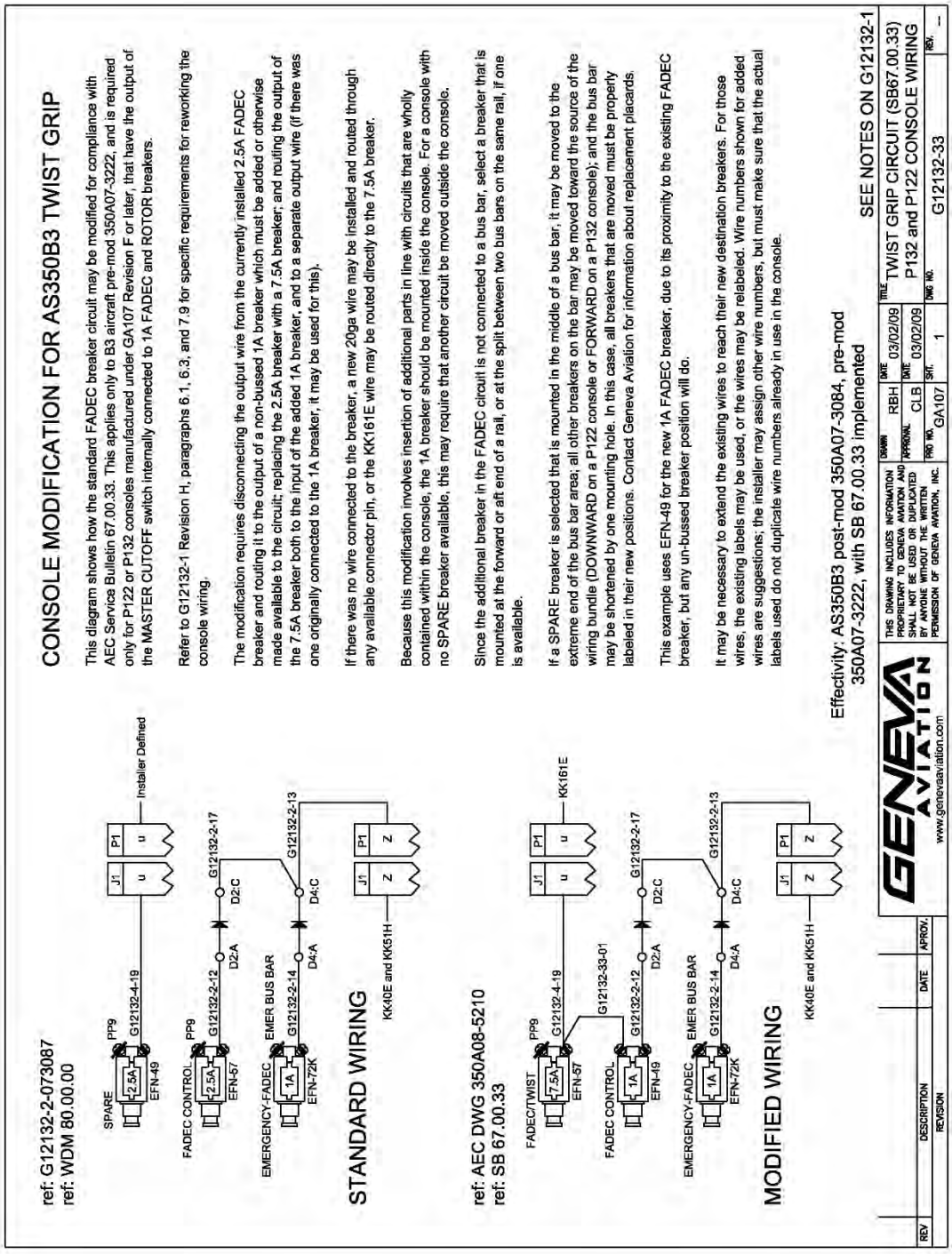

Figure 79: Twist Grip Circuit (G12132-33 Rev --)
Effectivity: AS350B3 Post-MOD 350A07-3084,
Pre-MOD 350A07-3222, with SB 67.00.33 implemented

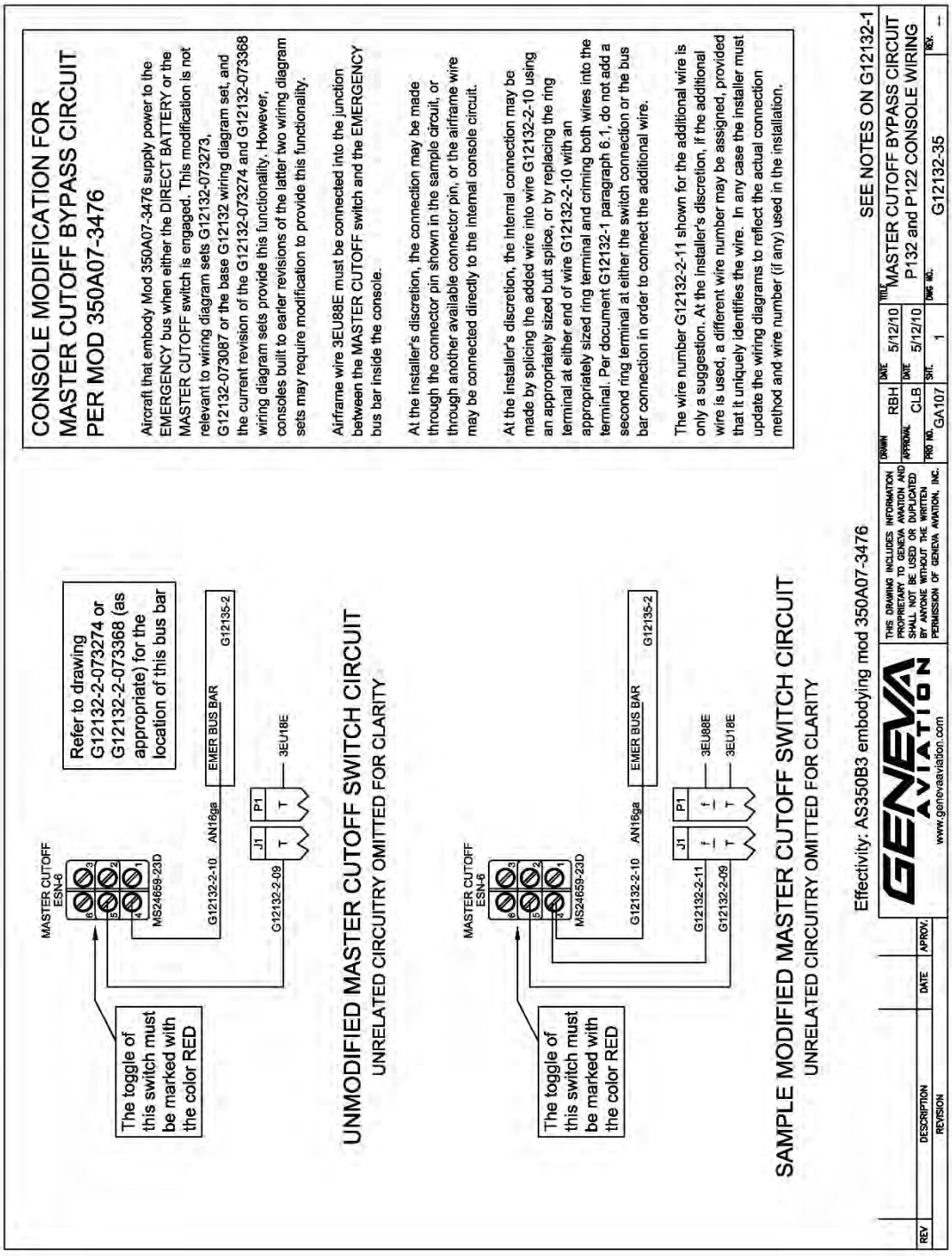

Figure 80: Master Cutoff Bypass Circuit (G12132-35 Rev --)
Effectivity: AS350B2 With MOD 350A07-3273
and AS350B3 With MOD 350A07-3476

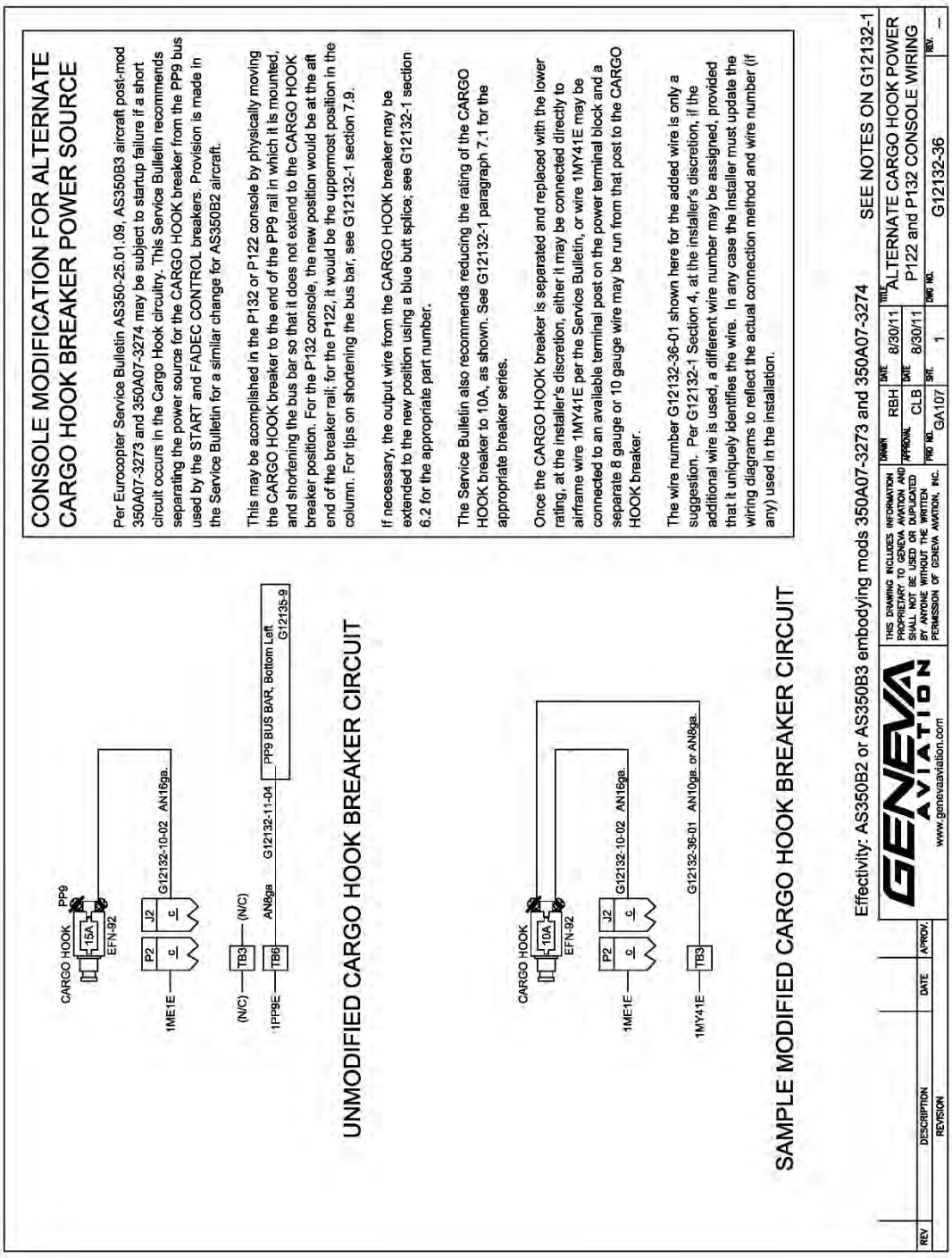

Figure 81: Alternate Cargo Hook Circuit (G12132-36 Rev --)
Effectivity: AS350B2 With MOD 350A07-3273
and AS350B3 With MOD 350A07-3274

6.5 Wiring Diagrams Post-MOD AS350A07-3087

6.5.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B3 aircraft Post Mod 350A07-3087 and Pre Mod 350A07-3257 or 350A07-3274.

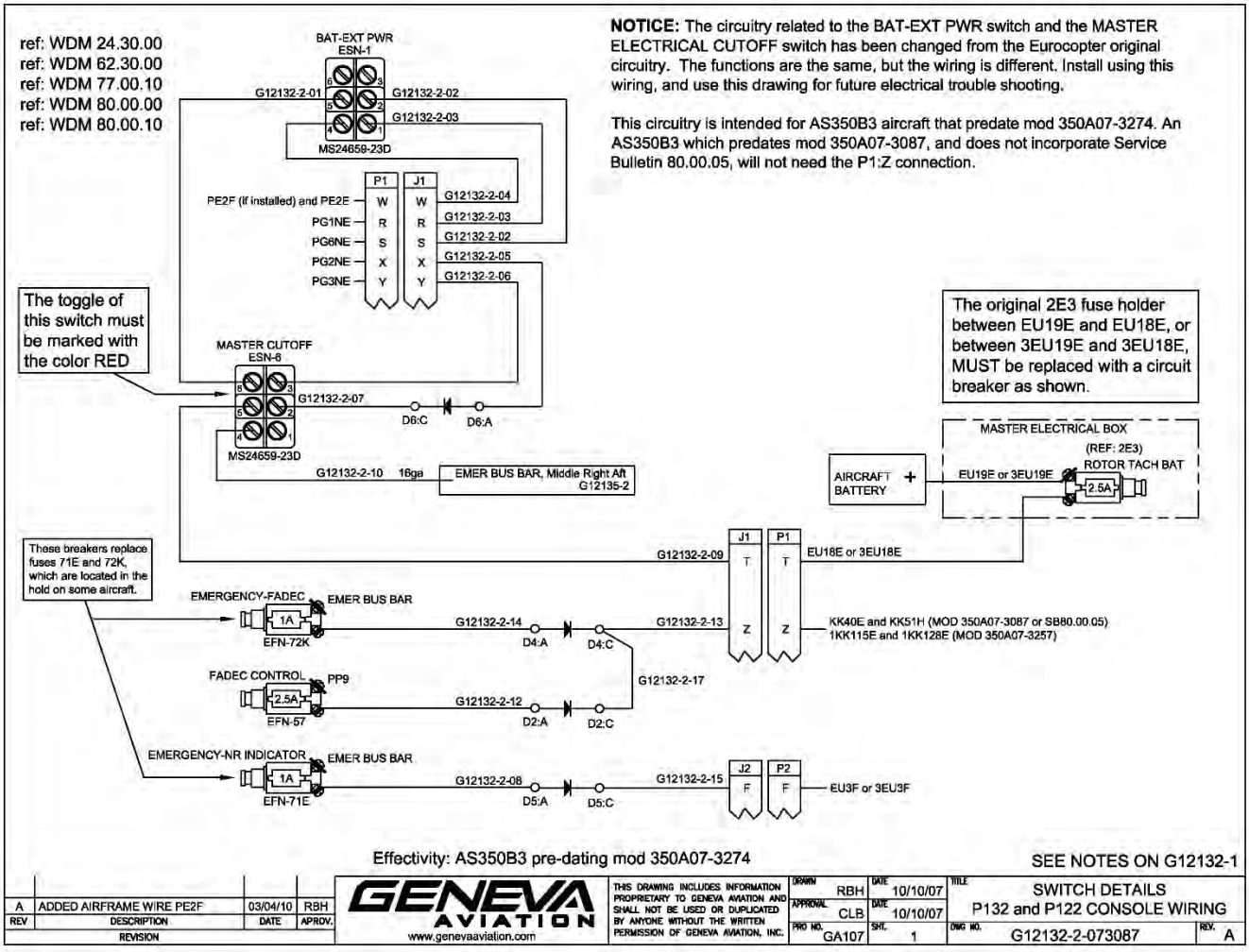

Figure 82: Switch Details (G12132-2-073087 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

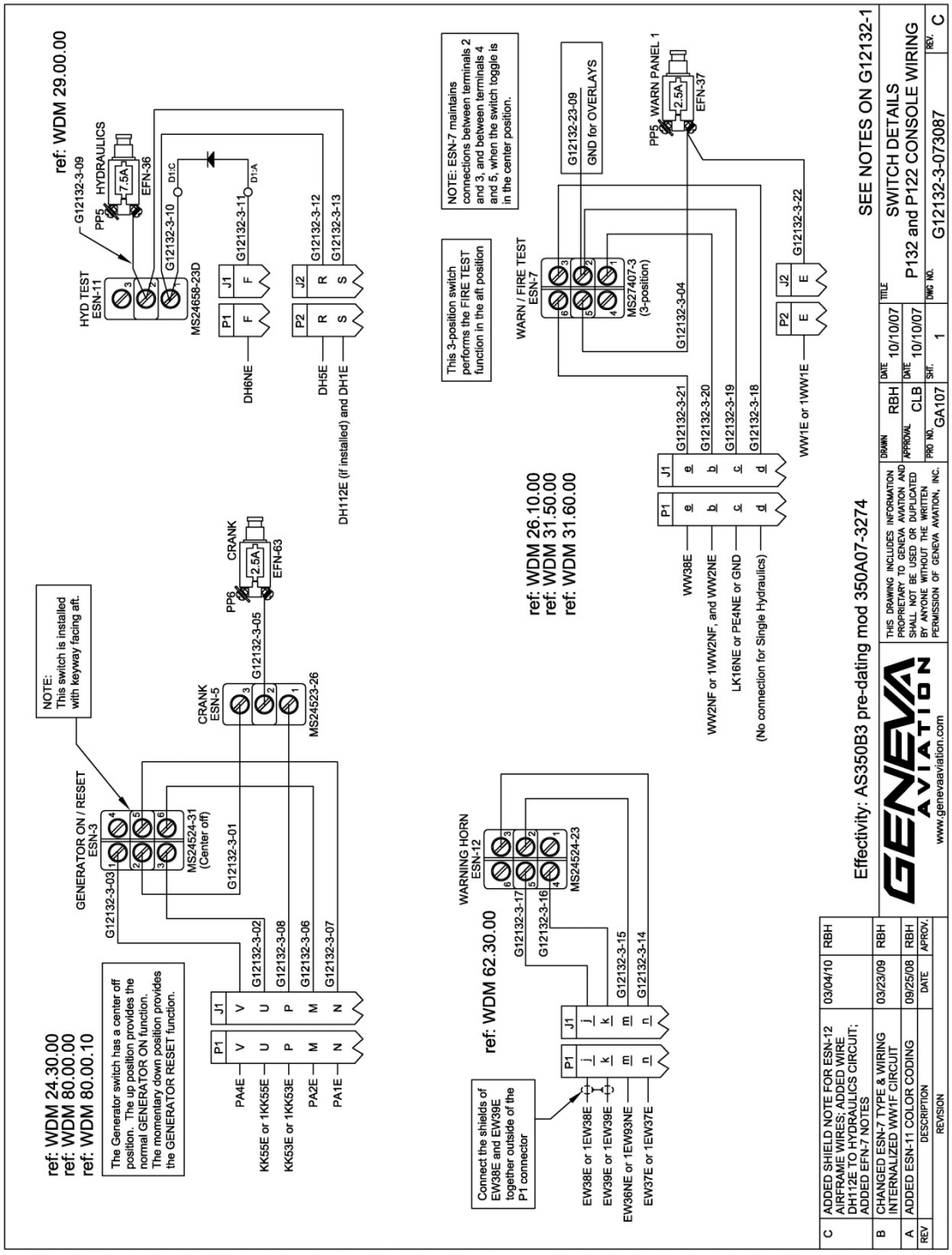

Figure 83: Switch Details (G12132-3-073087 Rev C)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

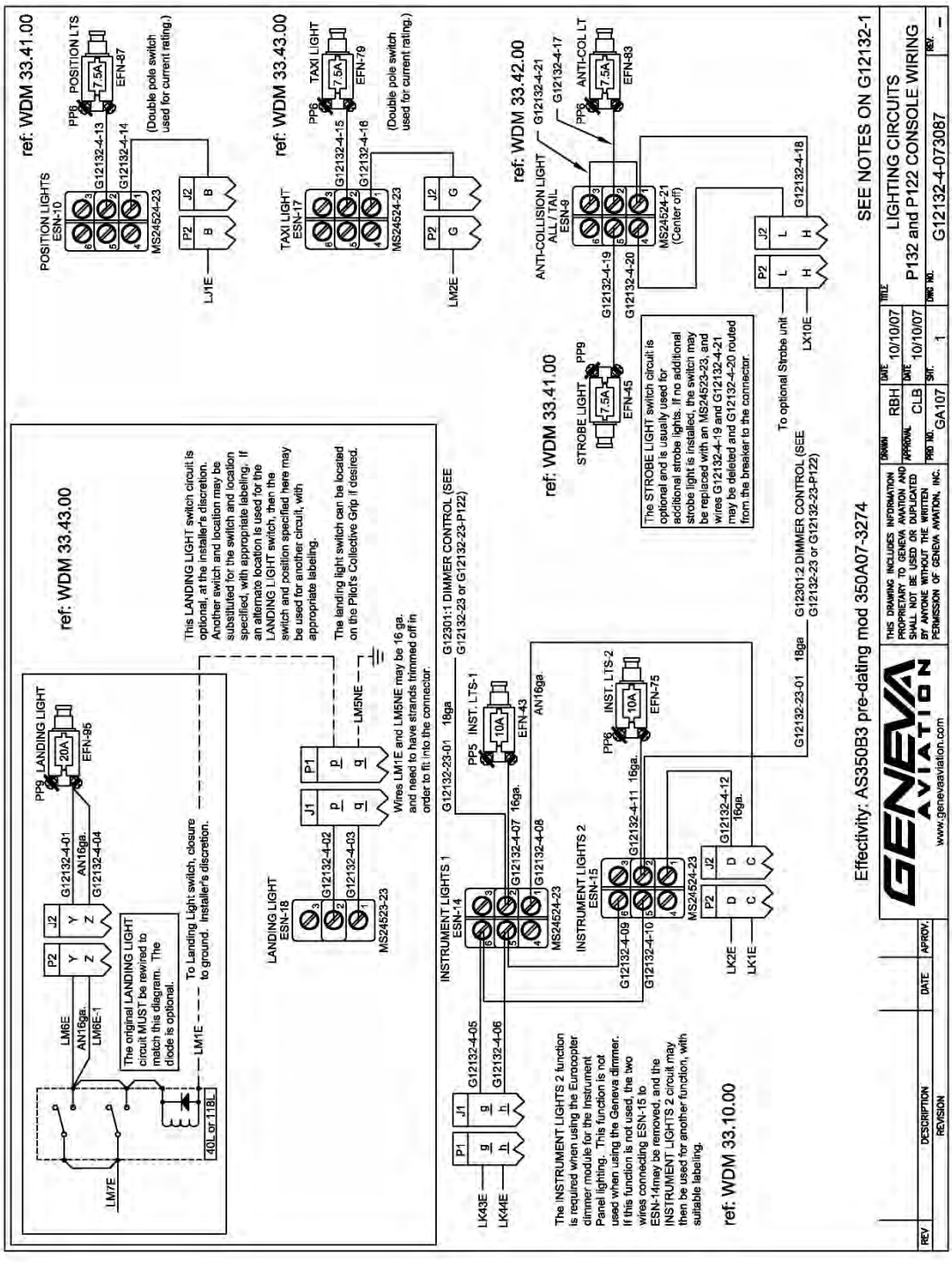

Figure 84: Lighting Circuits (G12132-4-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

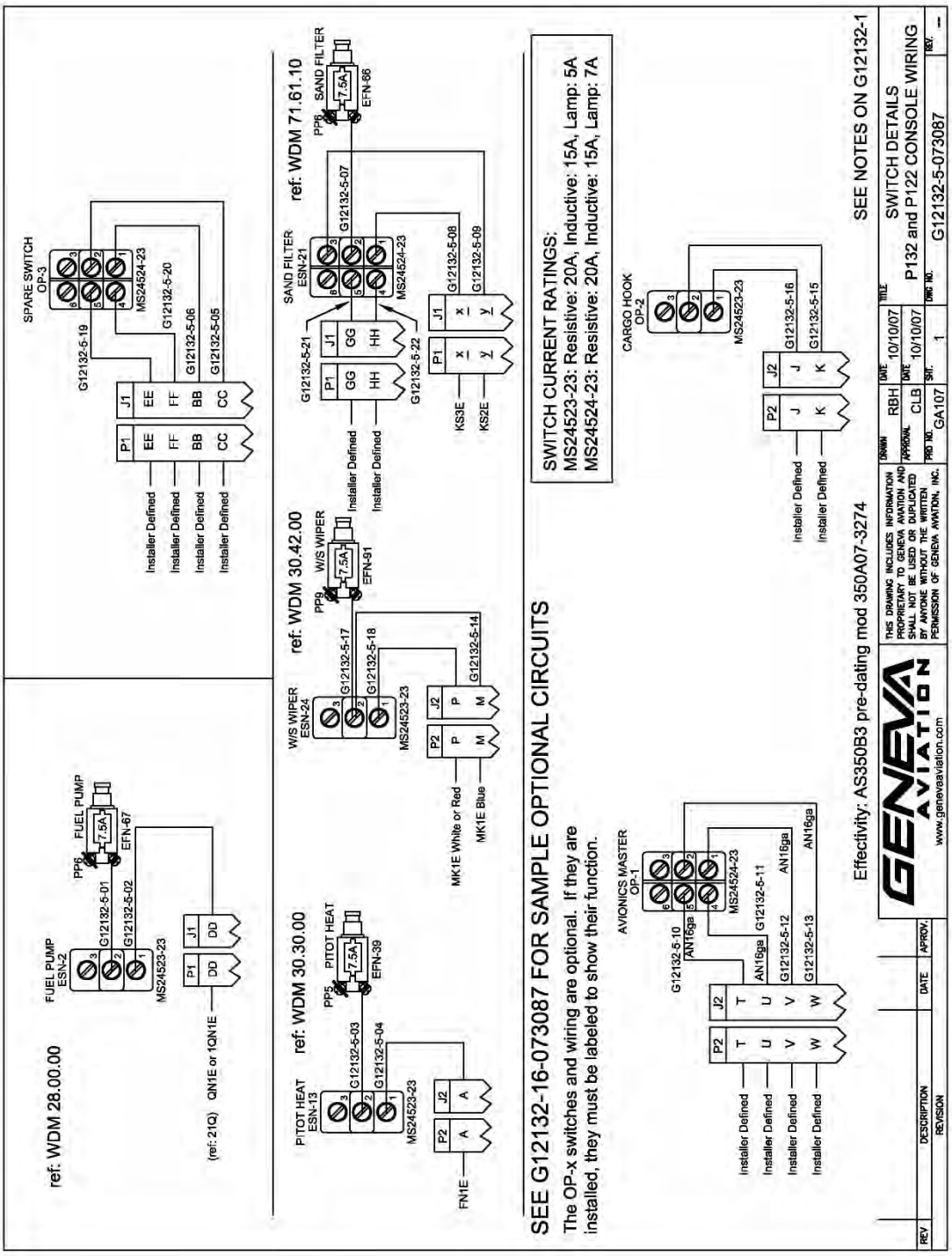

Figure 85: Switch Details (G12132-5-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

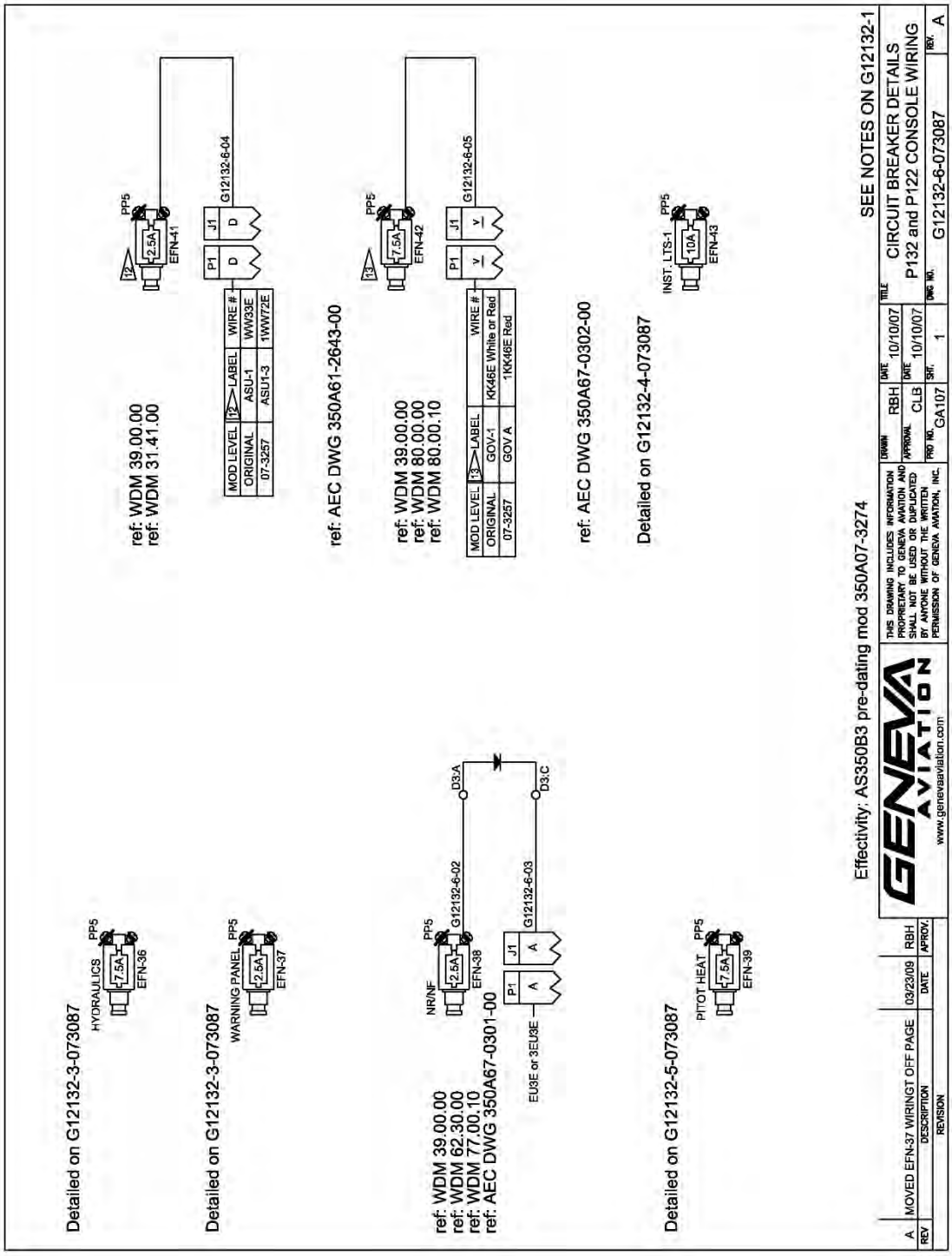

Figure 86: Circuit Breaker Details (G12132-6-073087 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

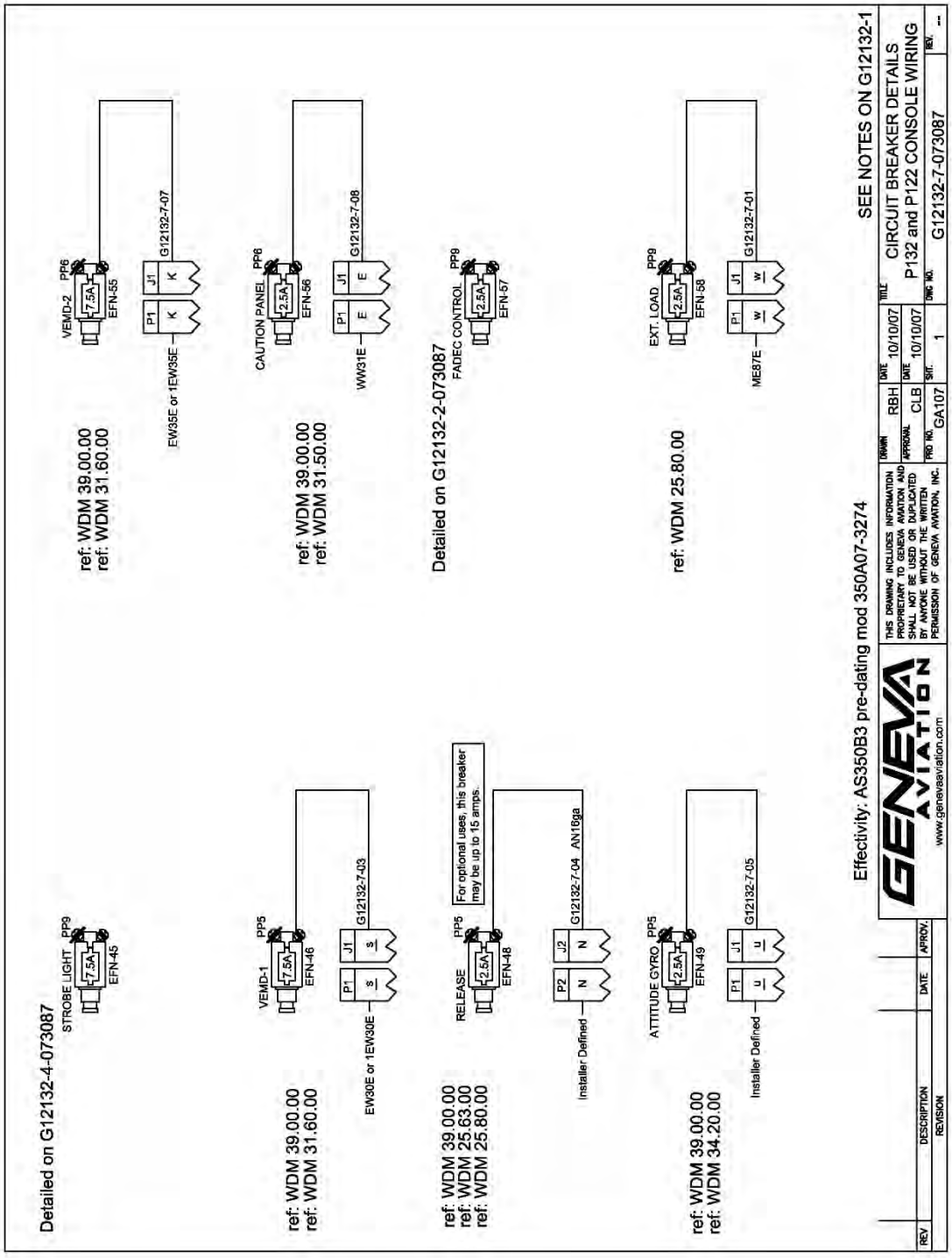

Figure 87: Circuit Breaker Details (G12132-7-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

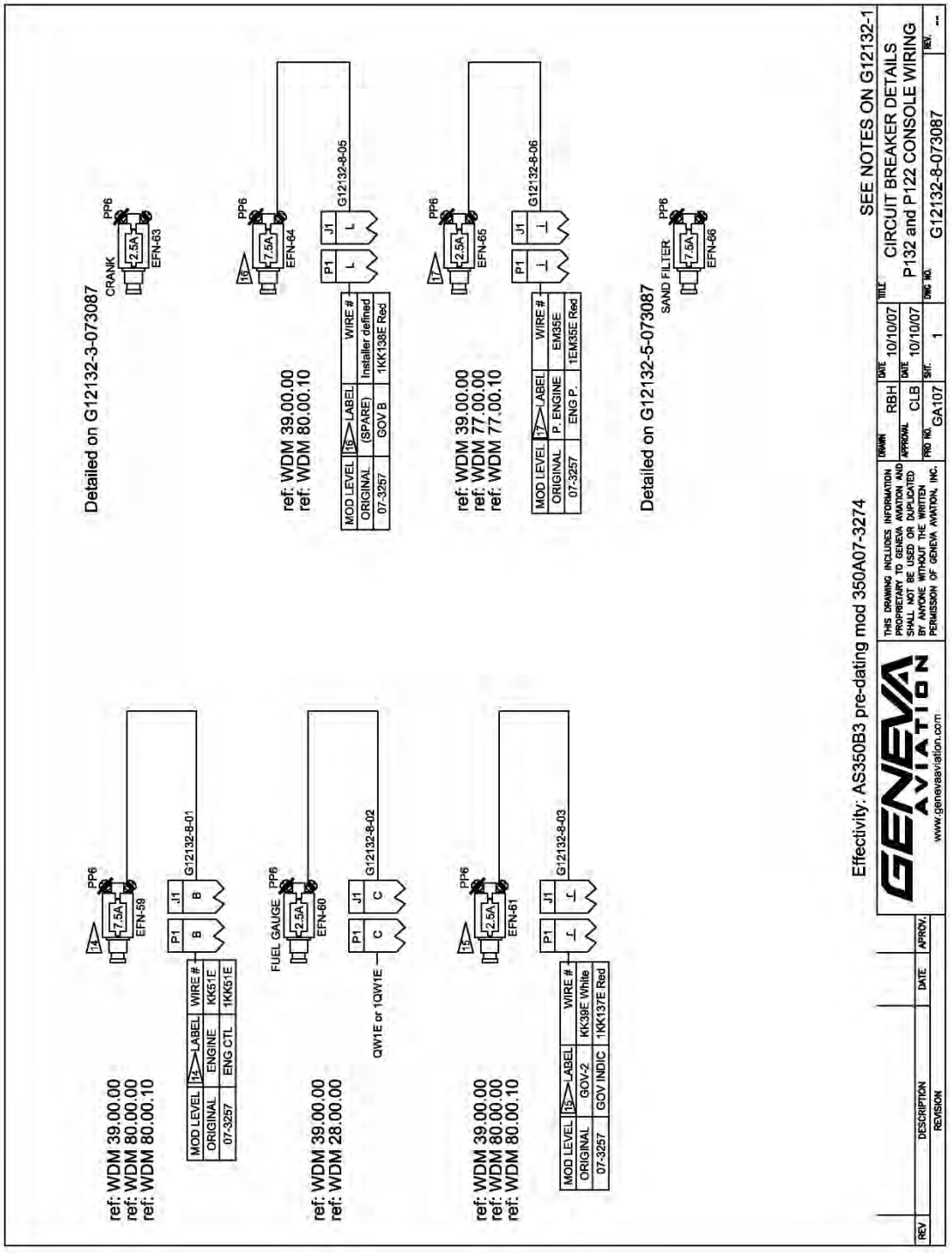

Figure 88: Circuit Breaker Details (G12132-8-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

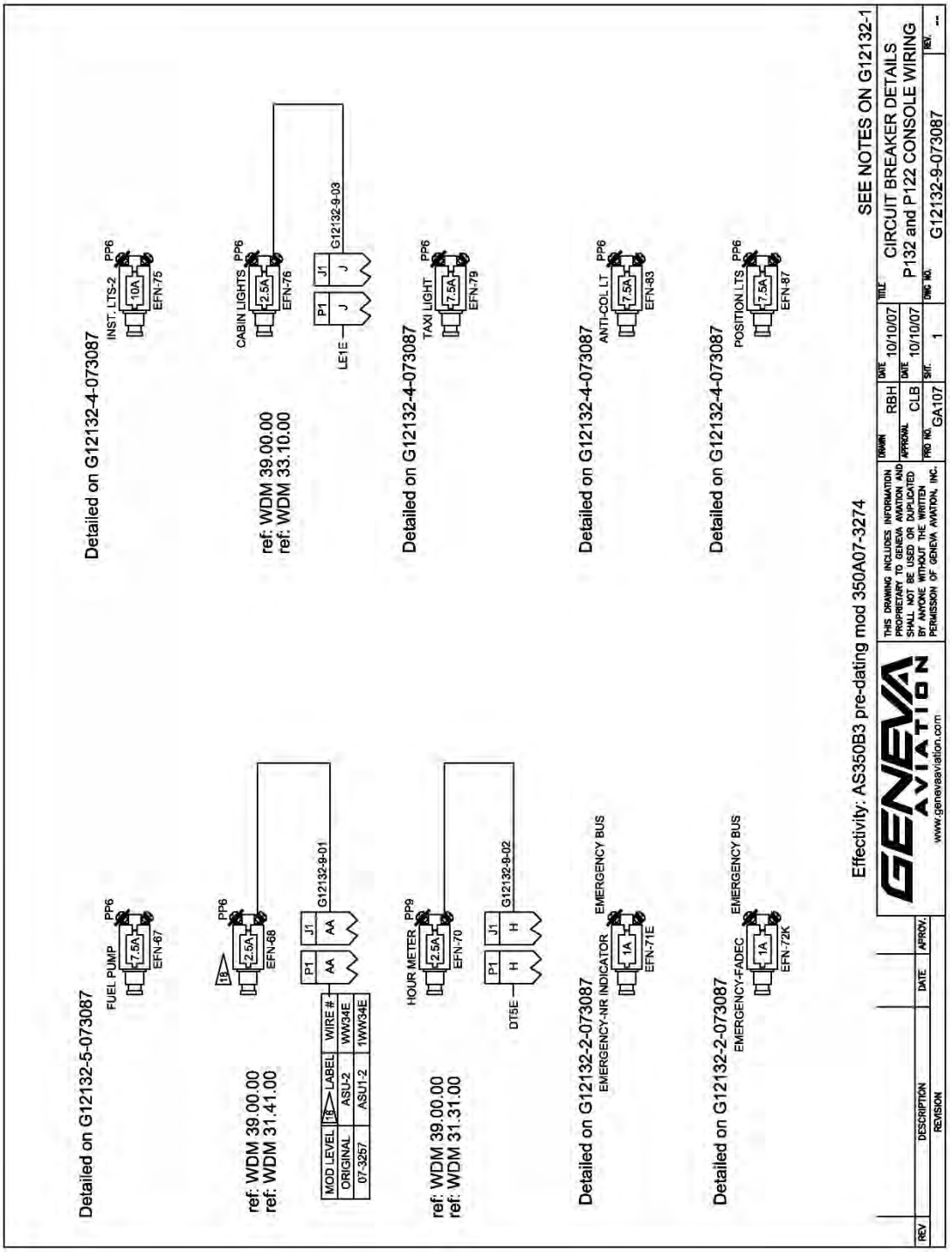

Figure 89: Circuit Breaker Details (G12132-9-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

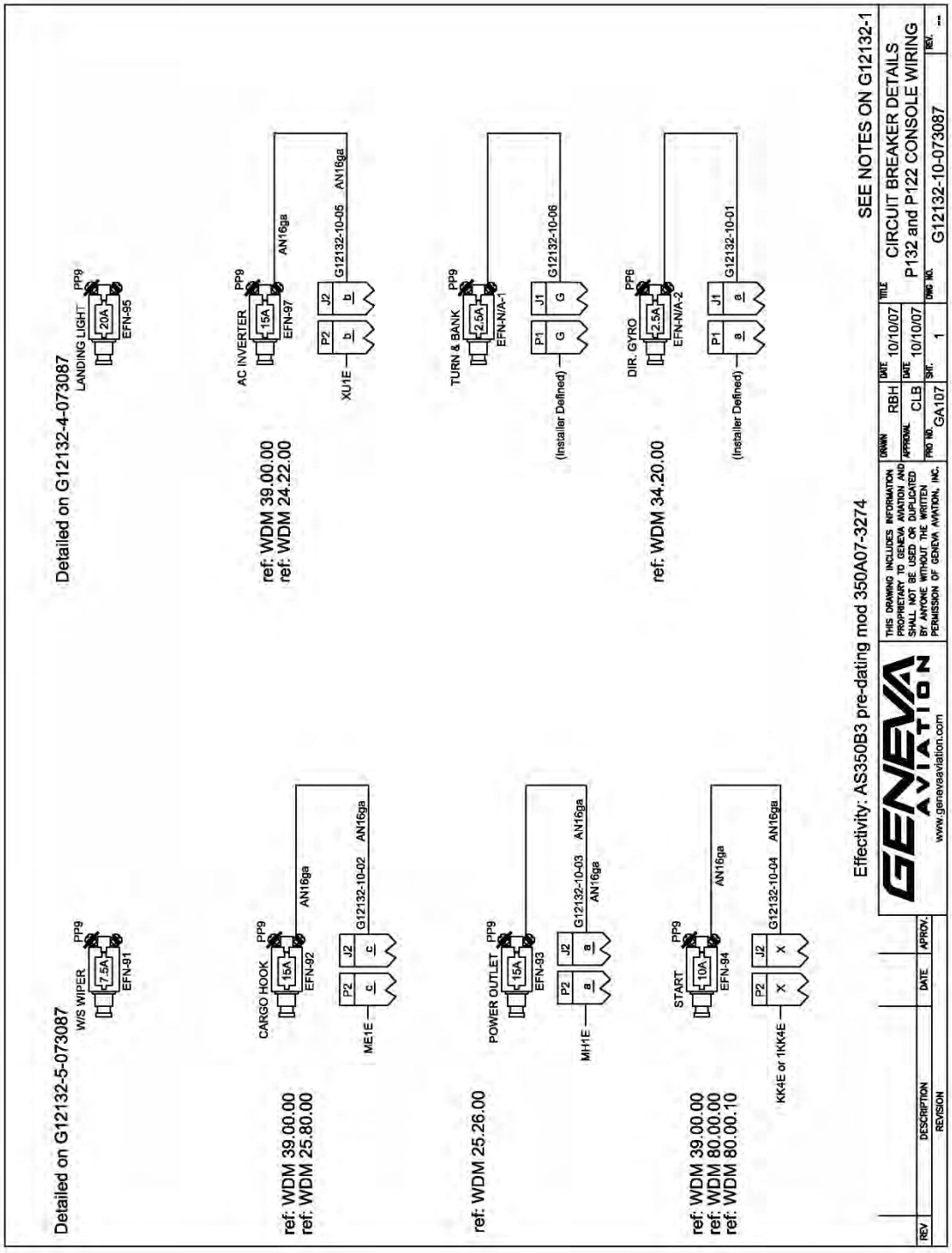

Figure 90: Circuit Breaker Details (G12132-10-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

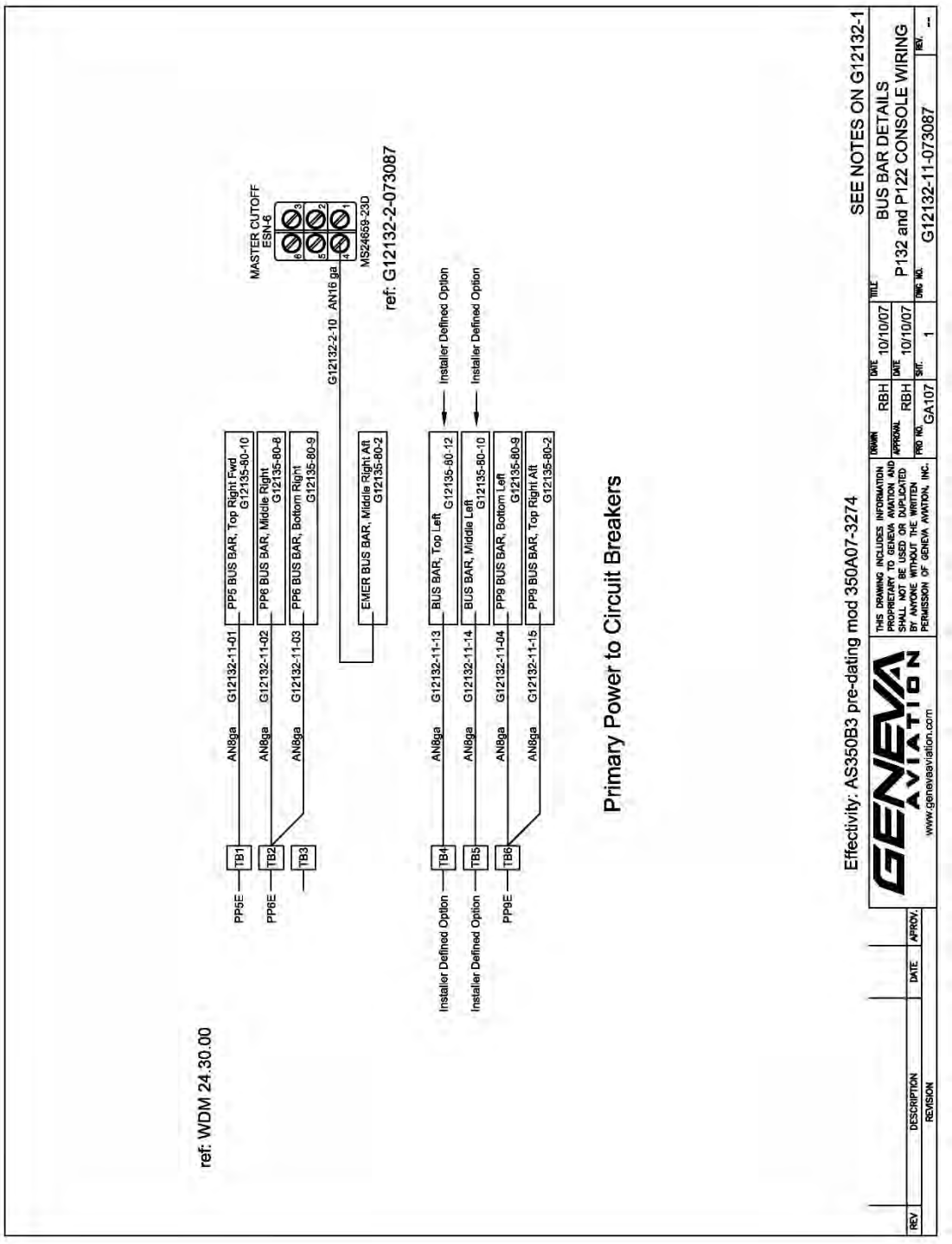

Figure 91: Bus Bar Details (G12132-11-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

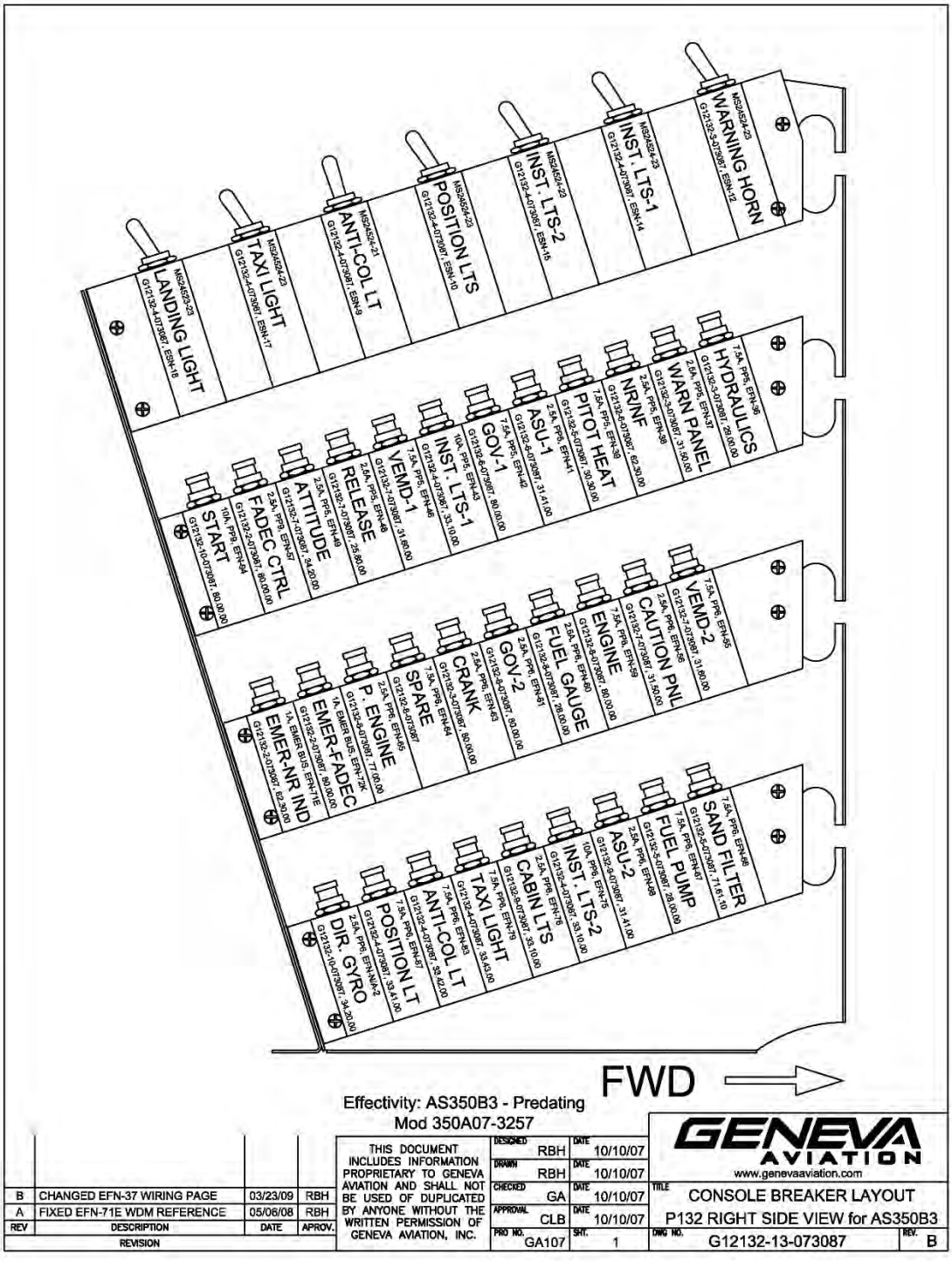

Figure 92: P132 Console RH Side CB Layout (G12132-13-073087 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3257.

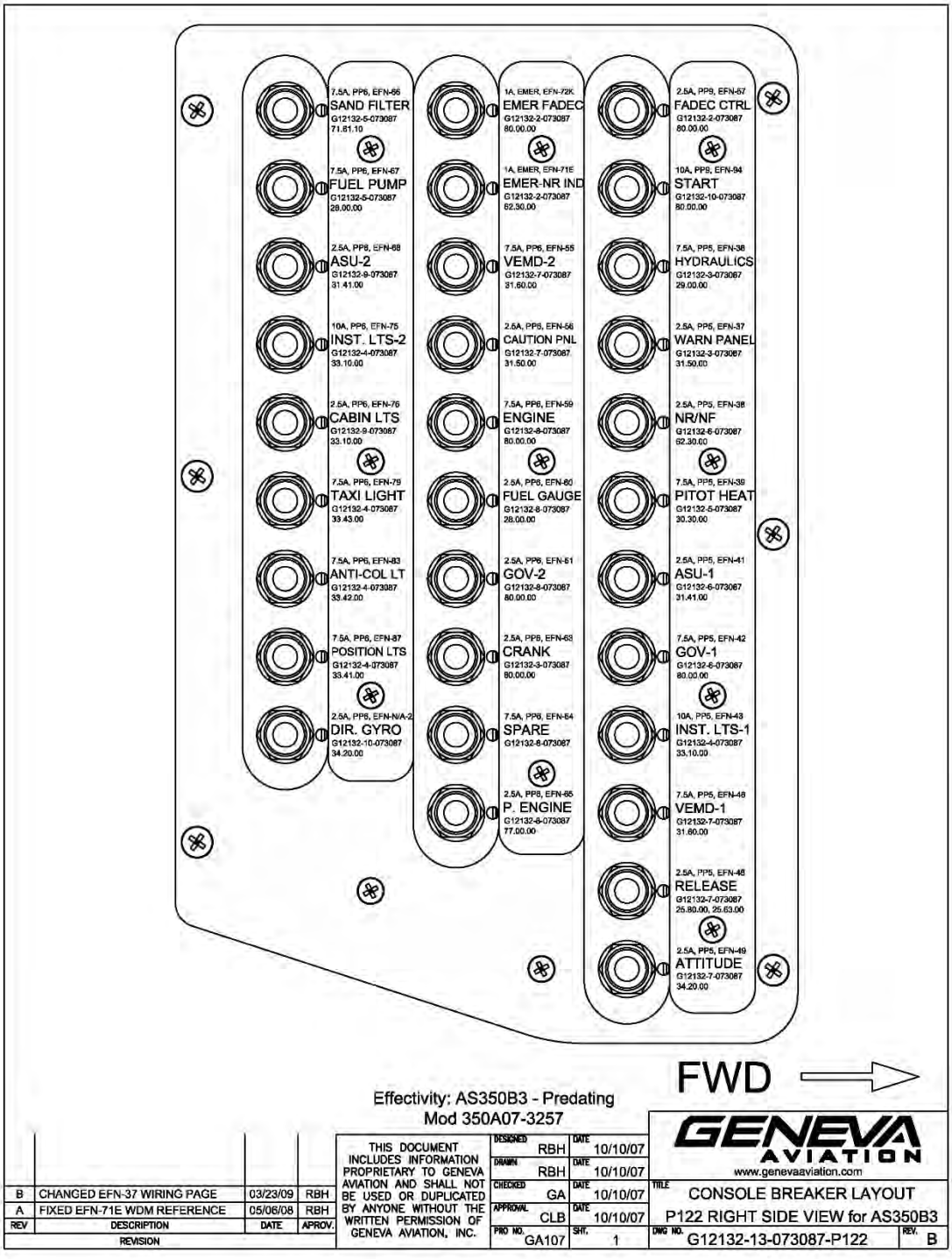

Figure 93: P122 Console RH Side CB Layout (G12132-13-073087-P122 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3257.

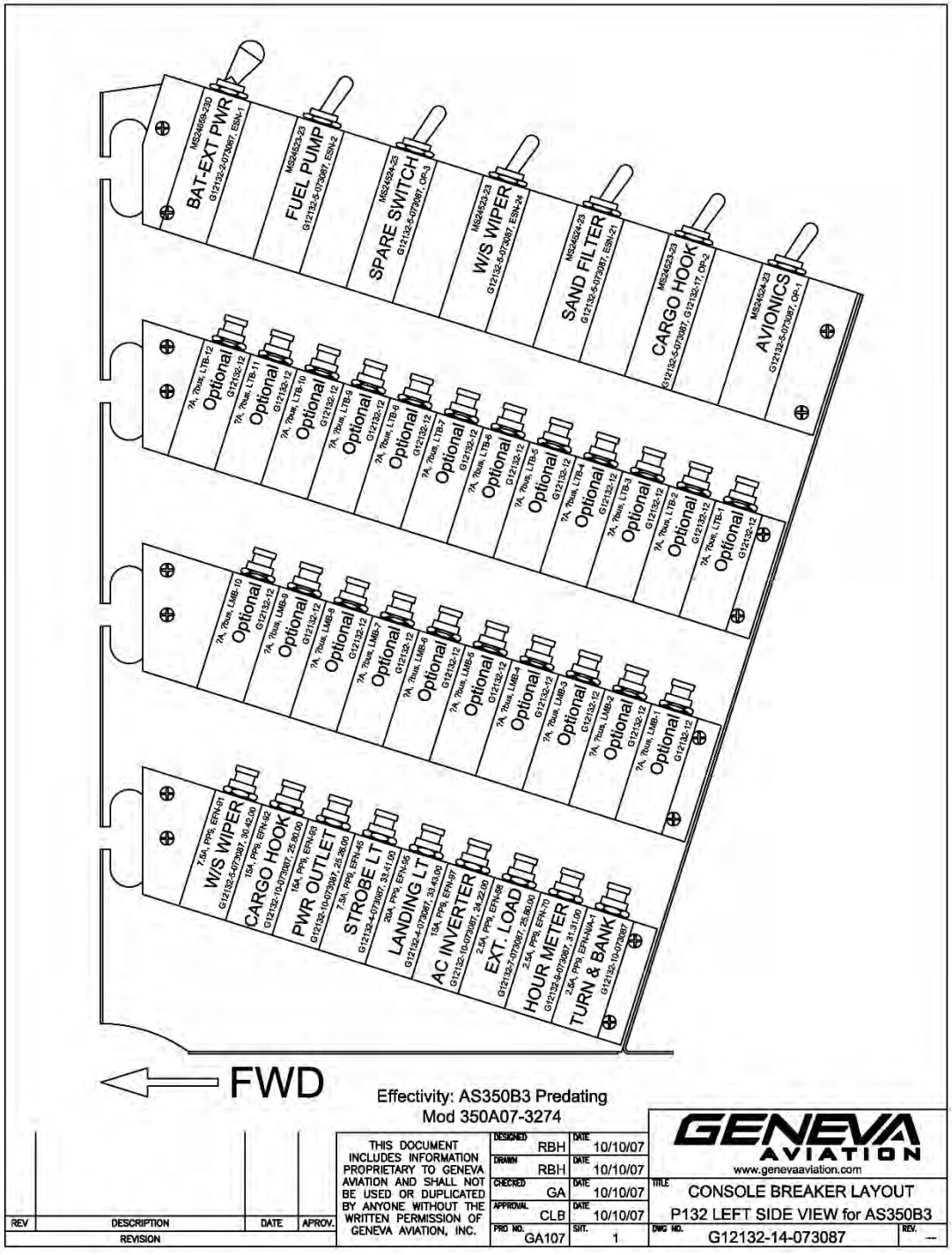

Figure 94: P132 Console LH Side CB Layout (G12132-14-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

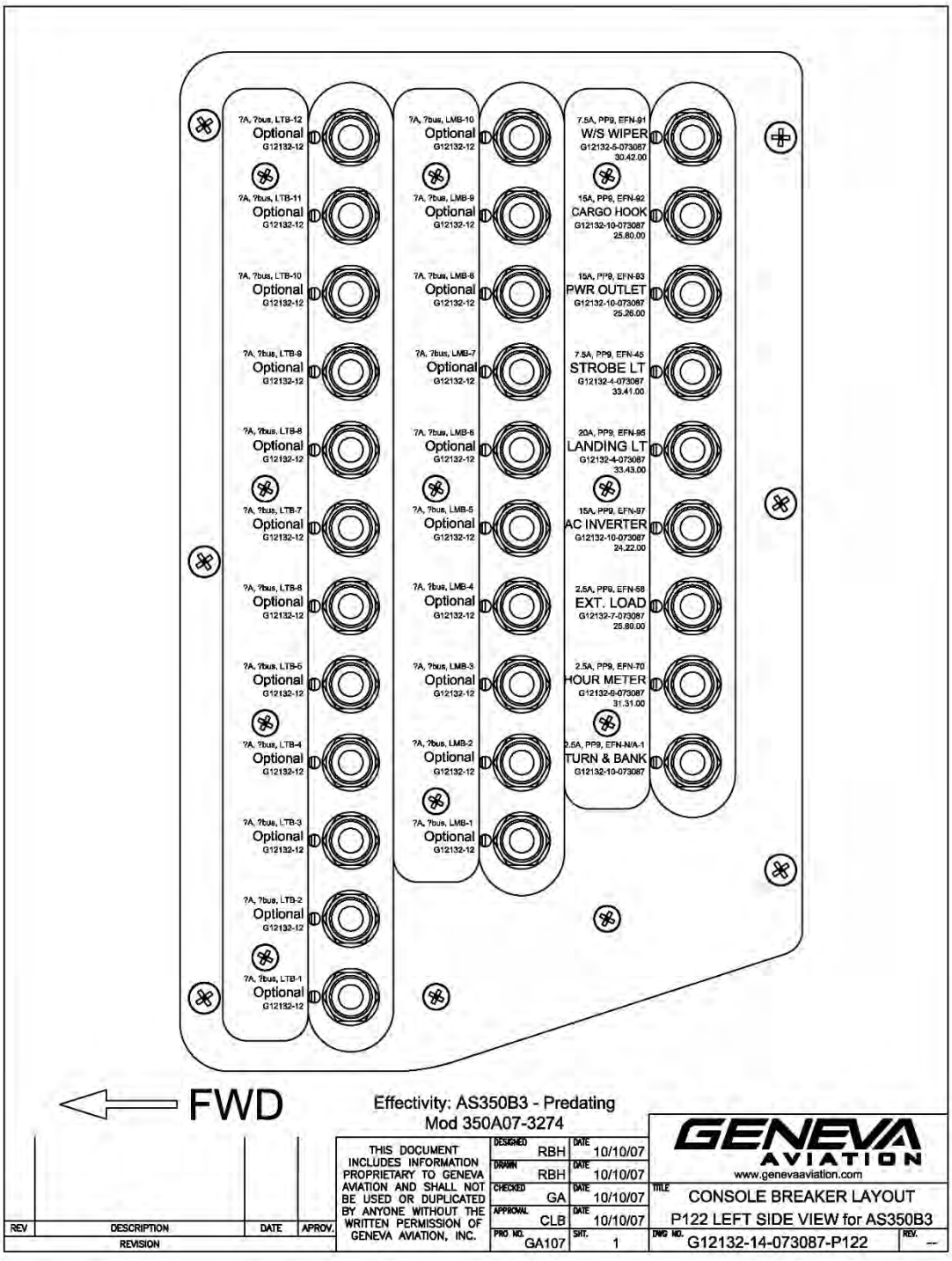

Figure 95: P132 Console LH Side CB Layout (G12132-14-073087-P122 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

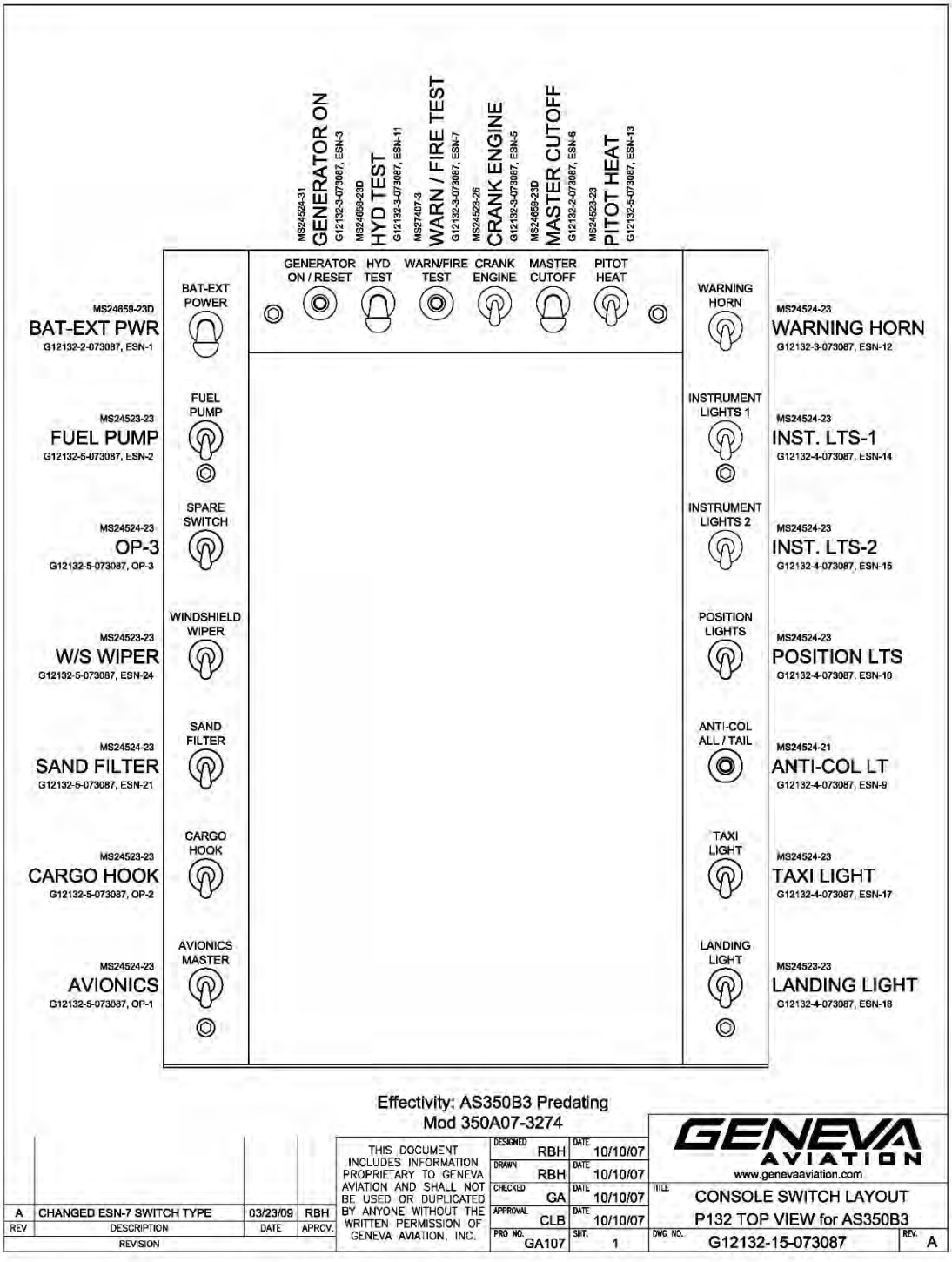

Figure 96: P132 Console Switch Layout (G12132-15-073087 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

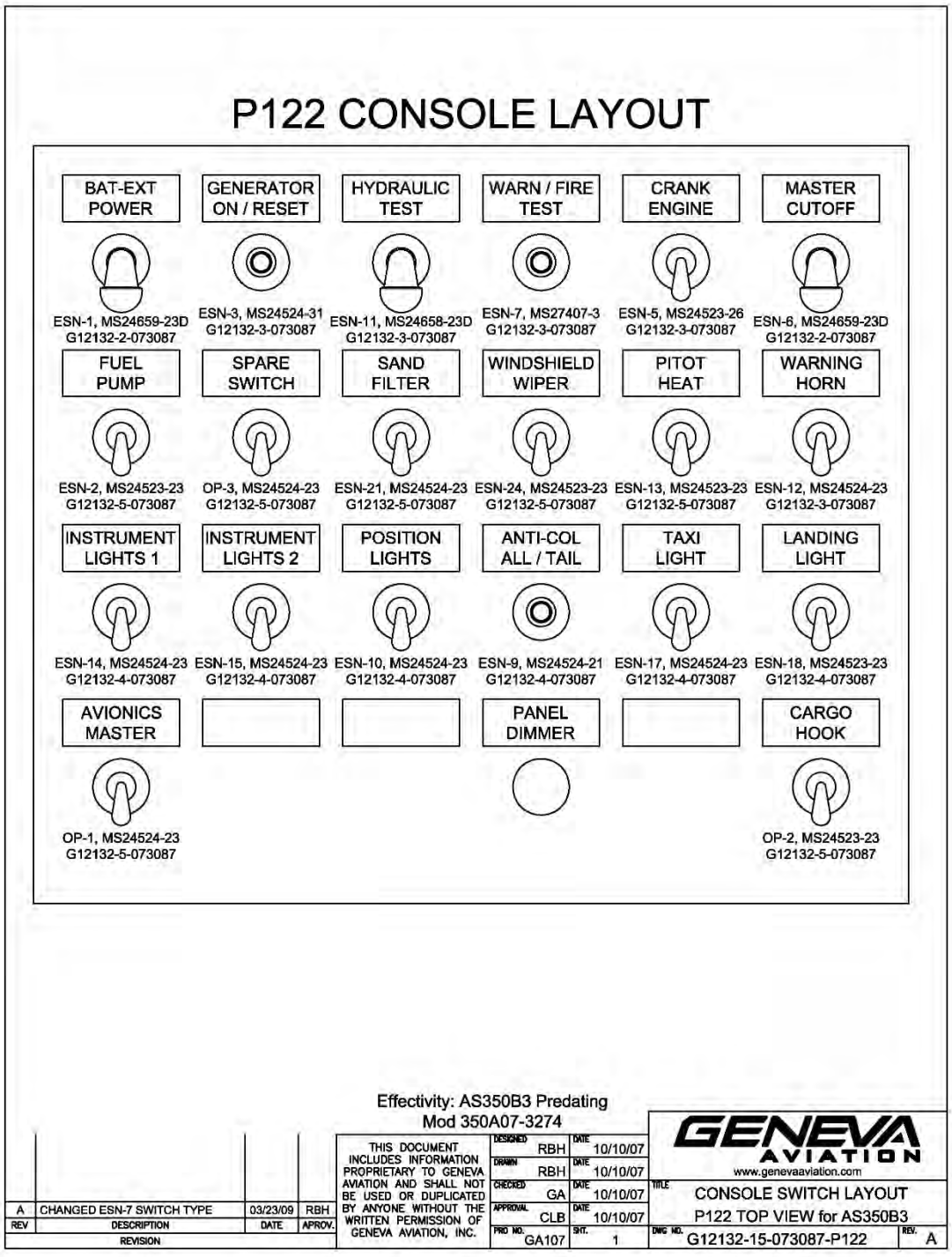

Figure 97: P122 Console Switch Layout (G12132-15-073087-P122 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

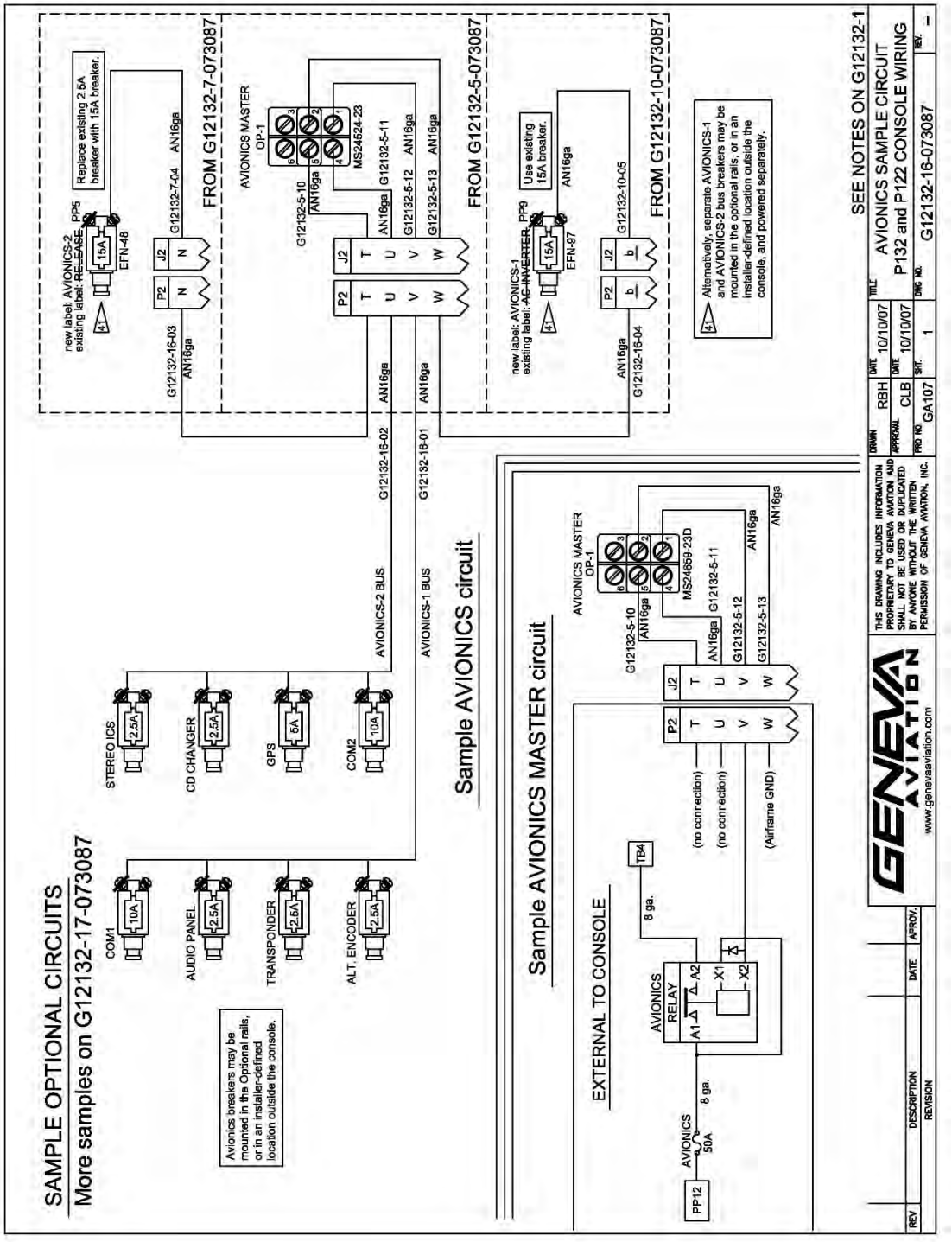

Figure 98: Console Avionics Sample Circuit (G12132-16-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

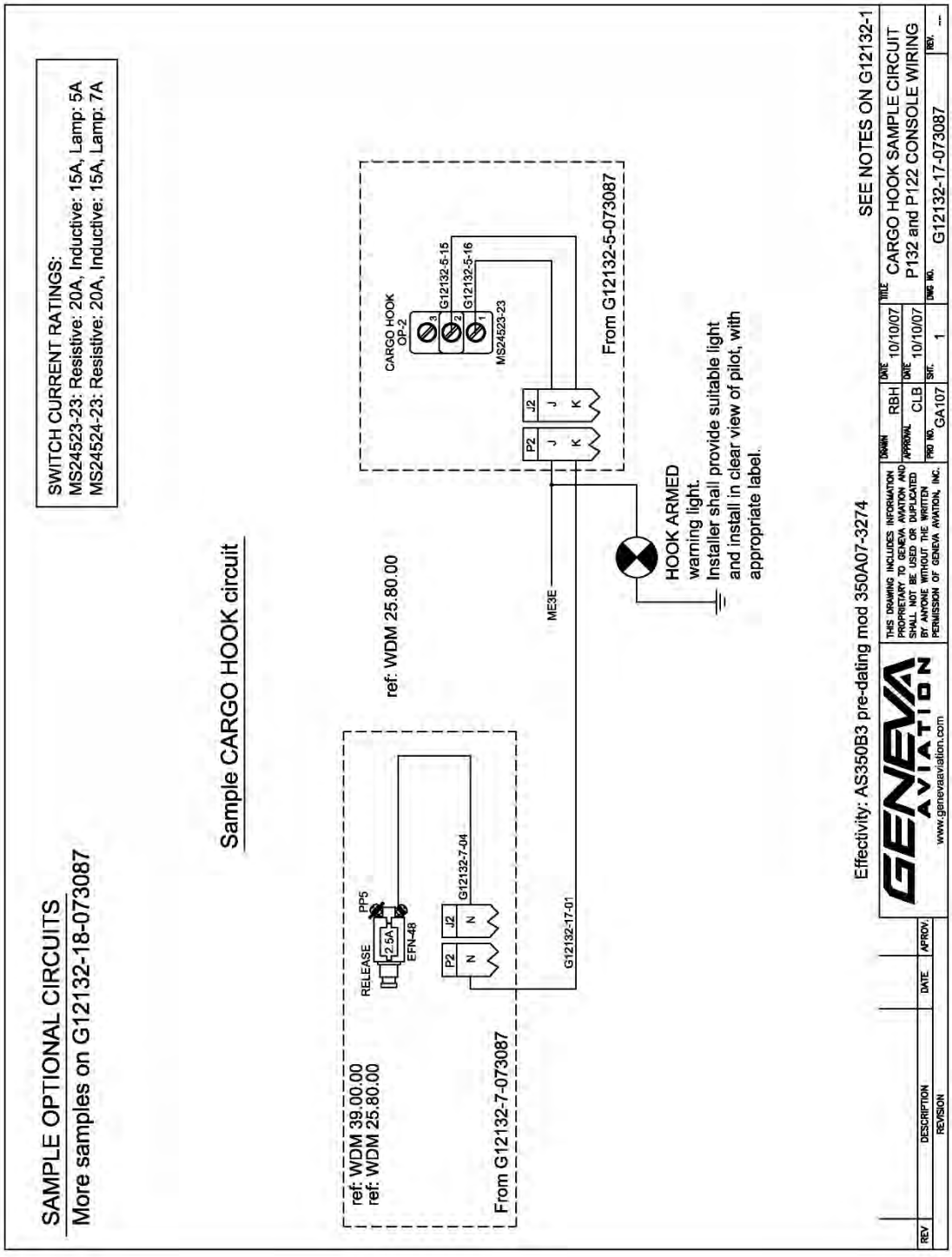

Figure 99: Cargo Hook Sample Circuit (G12132-17-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

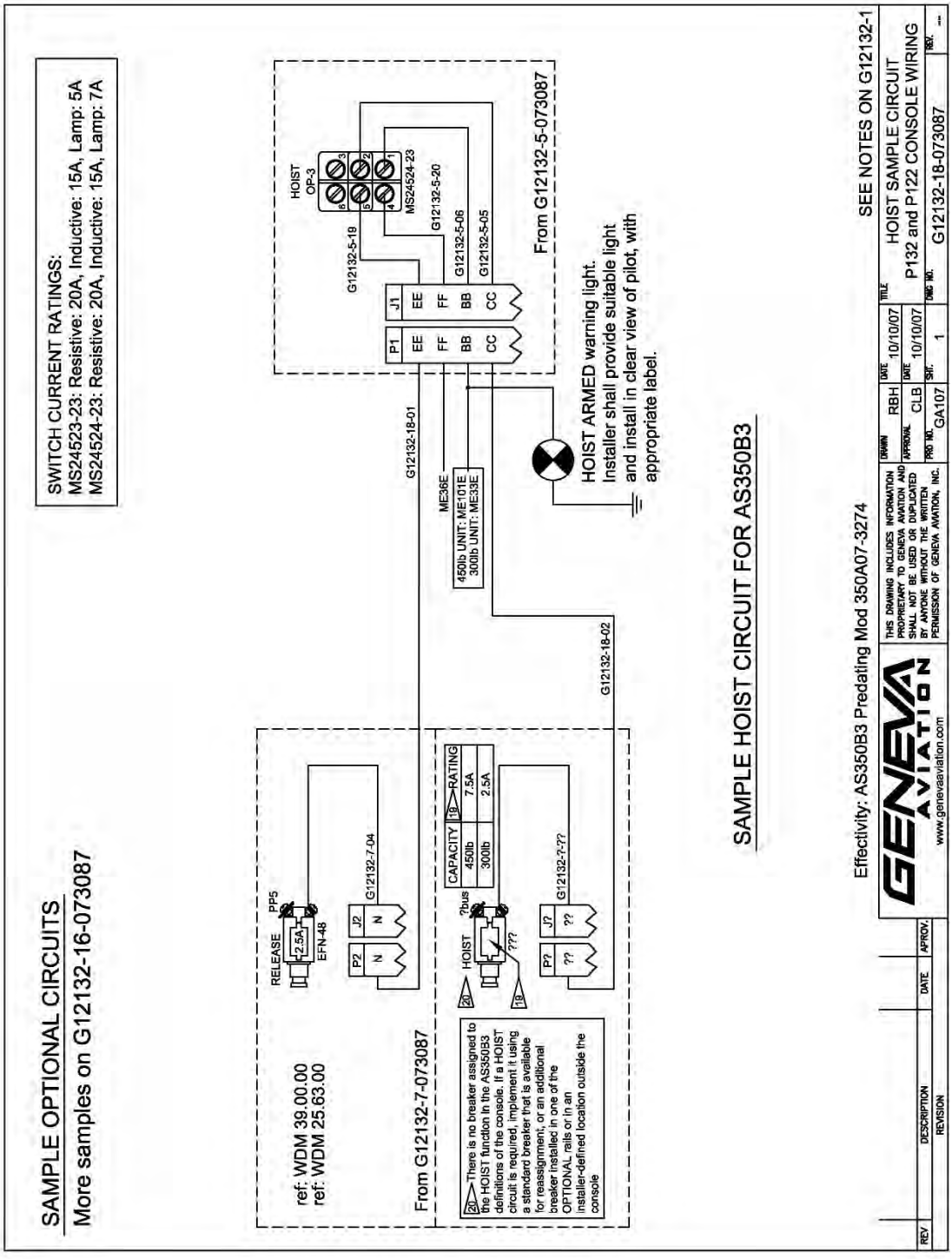

Figure 100: Hoist Sample Circuit (G12132-18-073087 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3087 AND PRE MOD 350A07-3274.

6.6 Wiring Diagrams Post-MOD AS350A07-3257

6.6.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B3 aircraft Post Mod 350A07-3257.

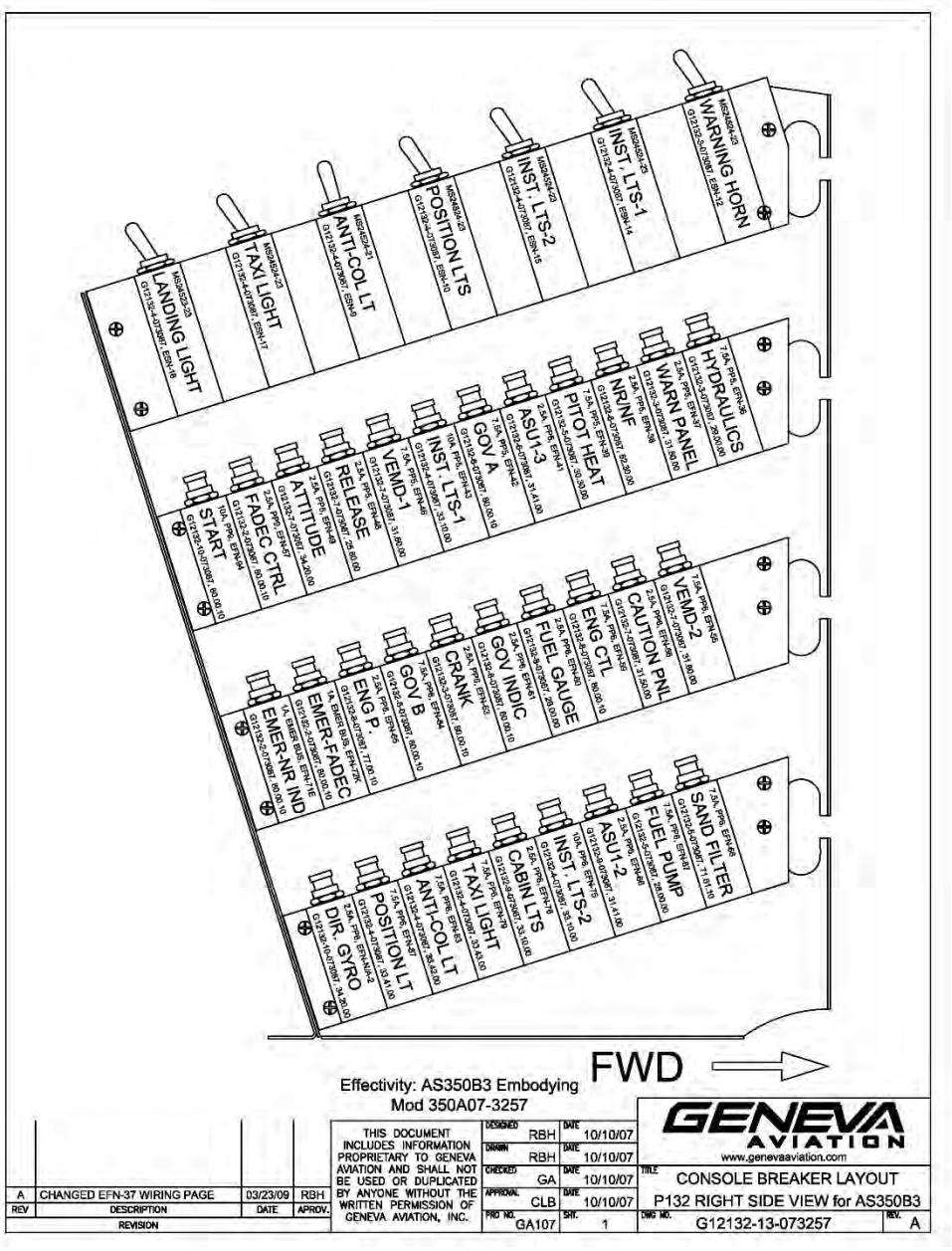

Figure 101: P132 Console RH Side CB Layout (G12132-13-073257 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3257.

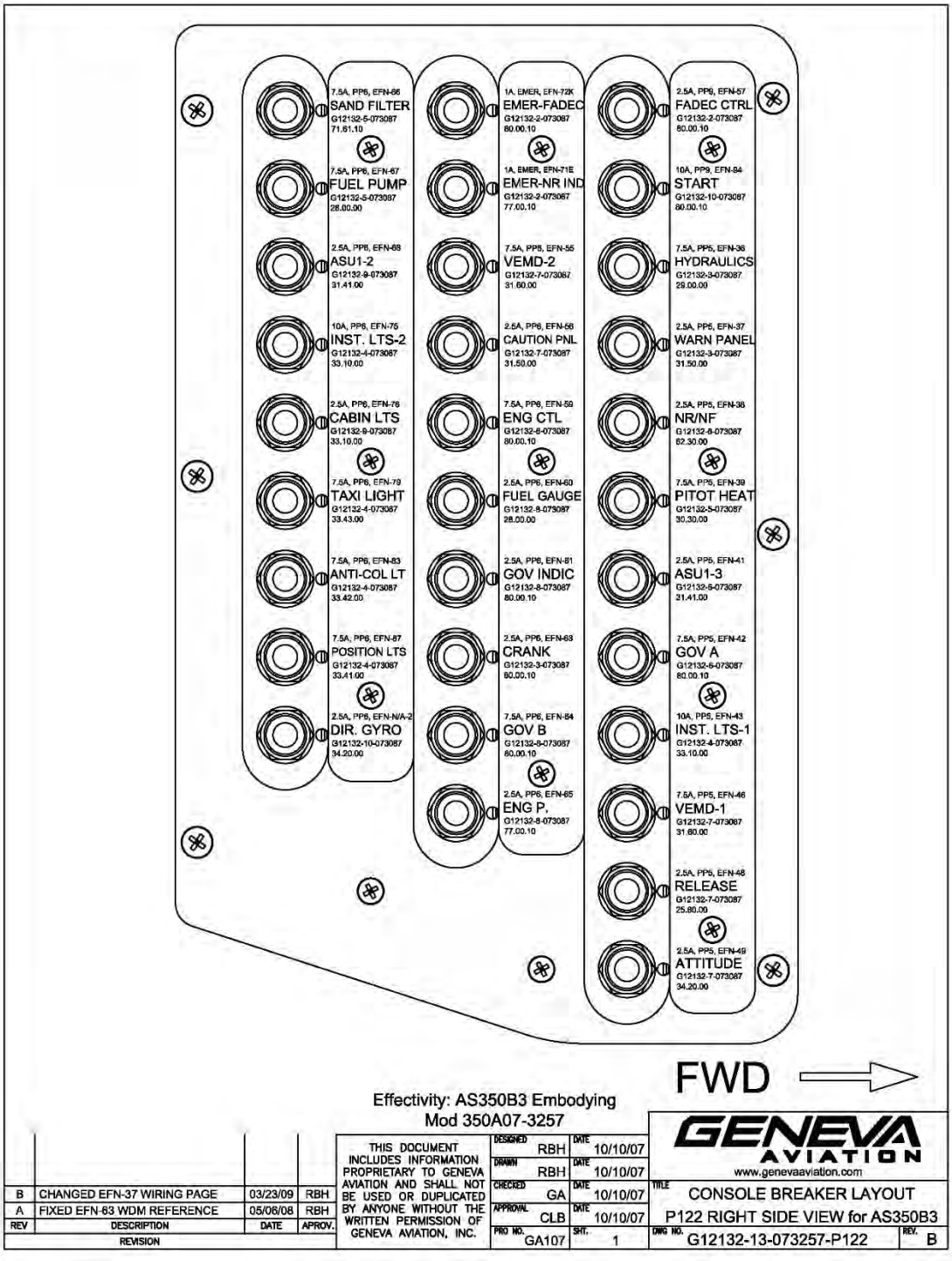

Figure 102: P122 Console RH Side CB Layout (G12132-13-073257-P122 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3257.

6.7 Wiring Diagrams Post-MOD AS350A07-3273

6.7.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B2 aircraft Post Mod 350A07-3273.

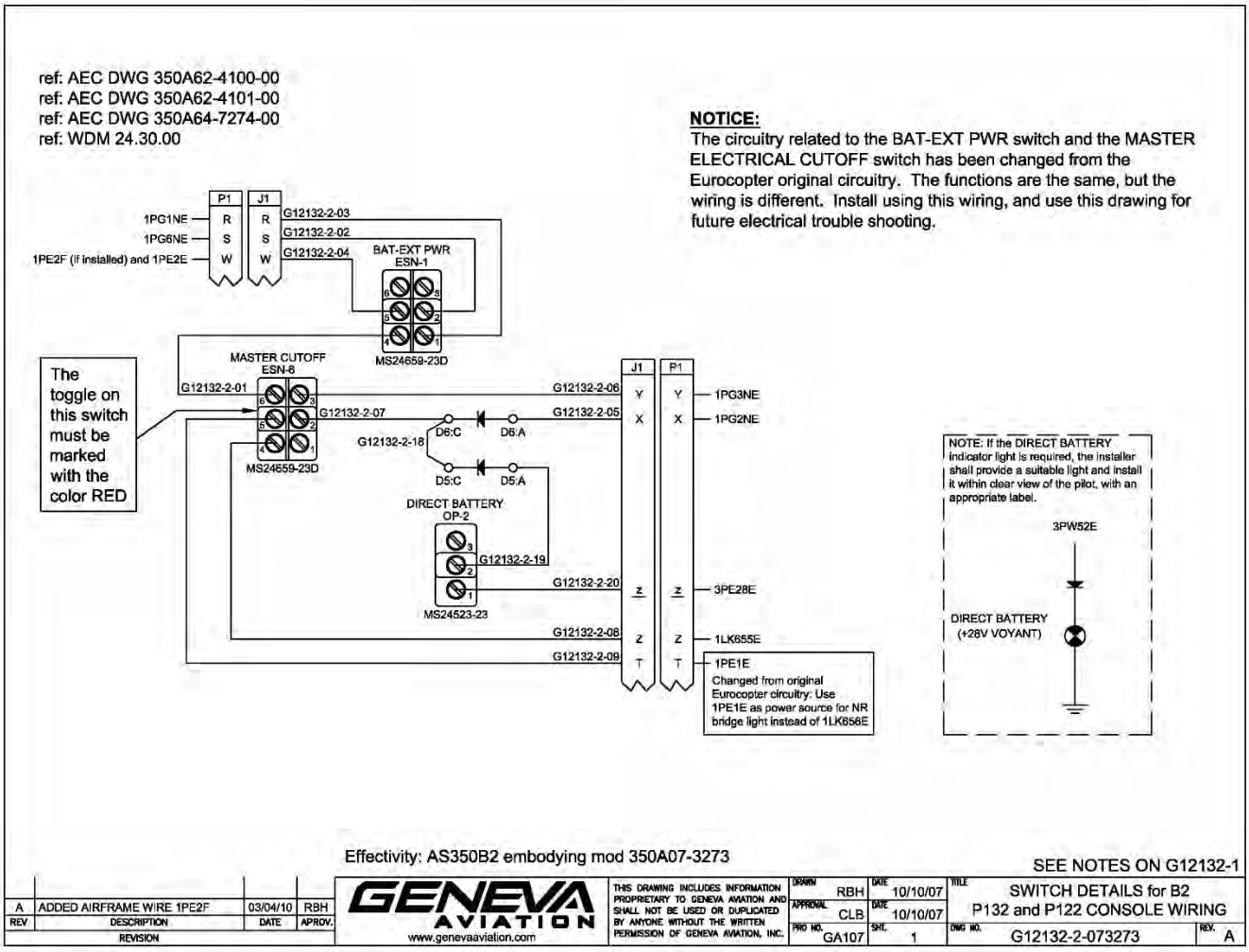

Figure 103: Switch Details (G12132-2-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

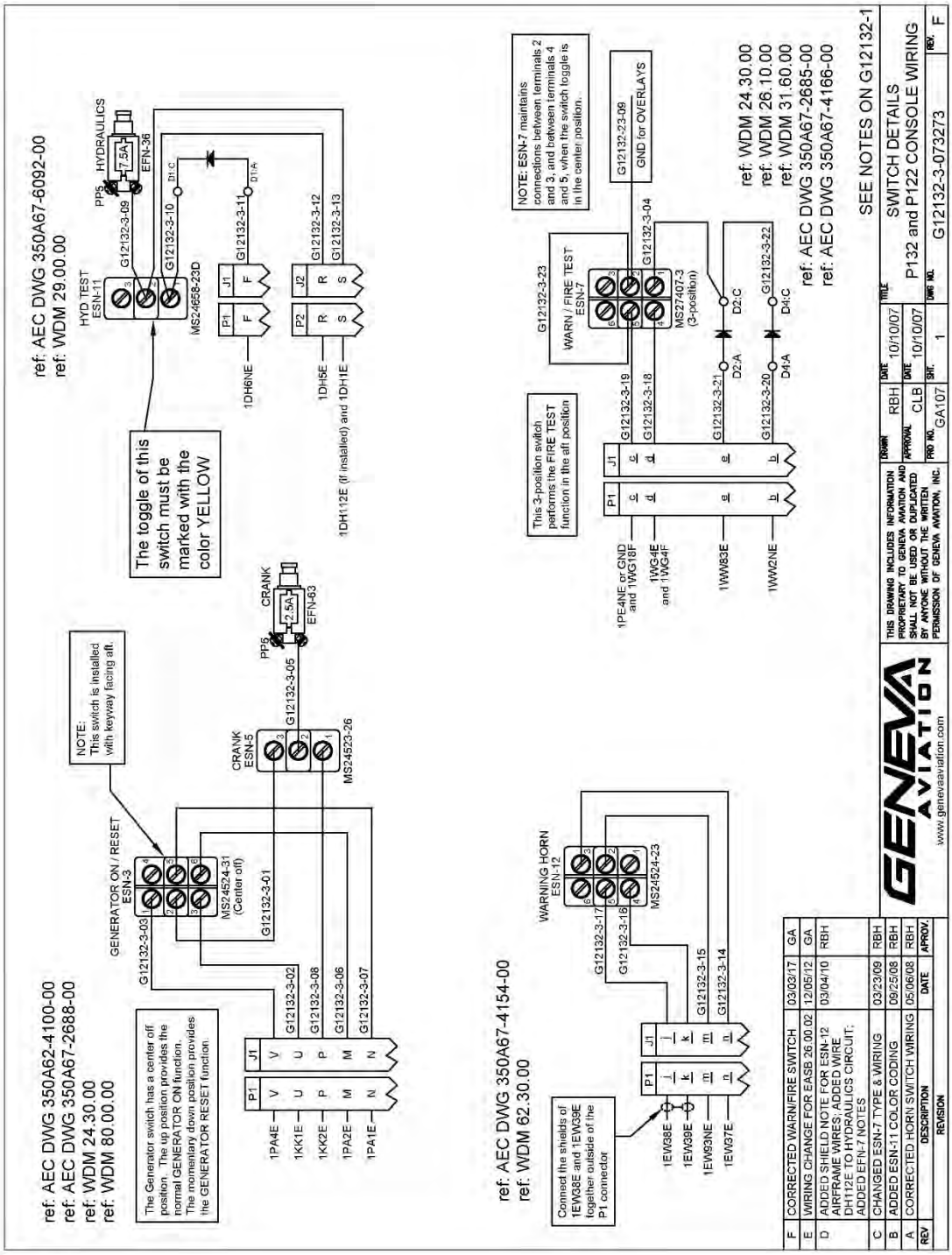

Figure 104: Switch Details (G12132-3-073273 Rev F)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

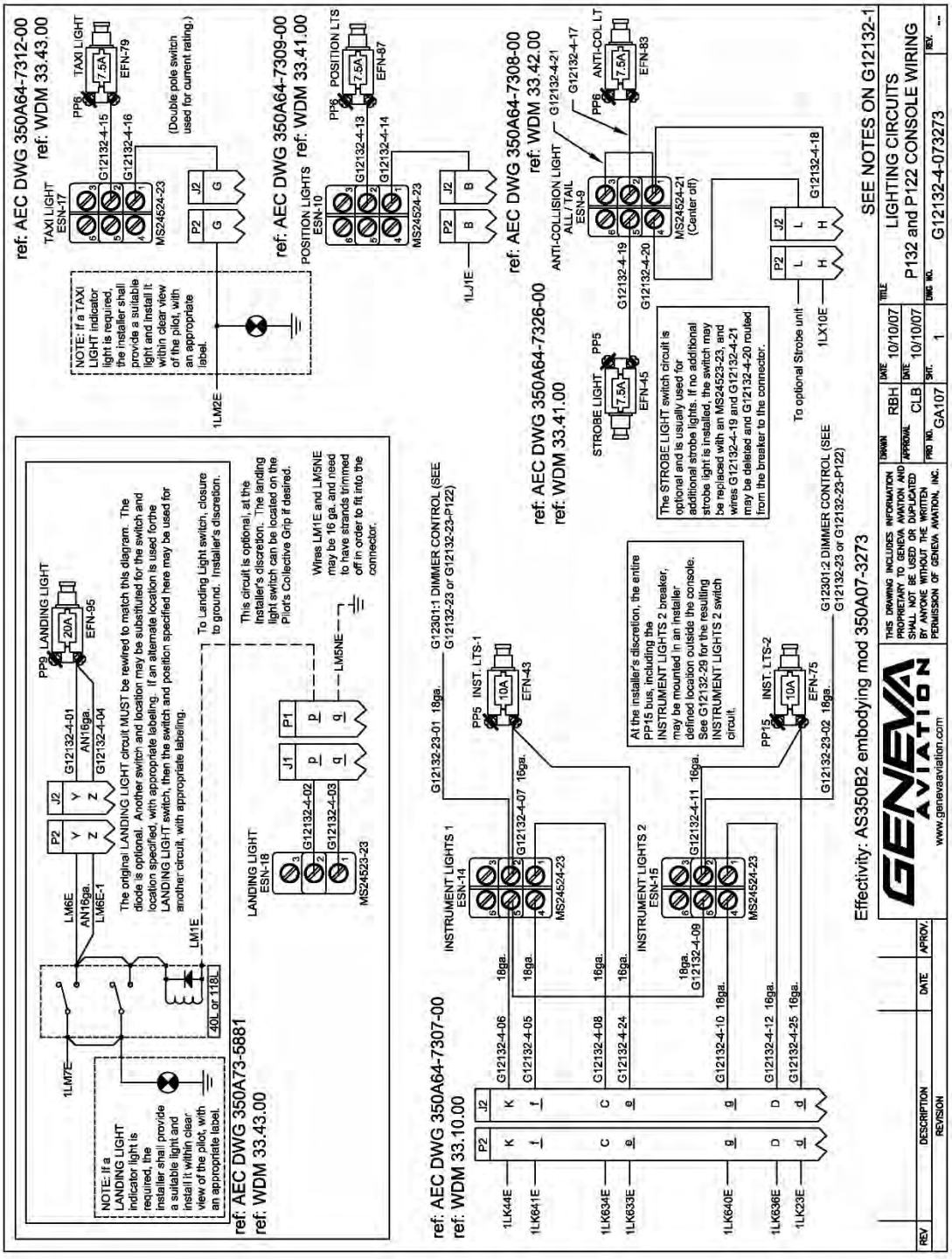

Figure 105: Lighting Circuits (G12132-4-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

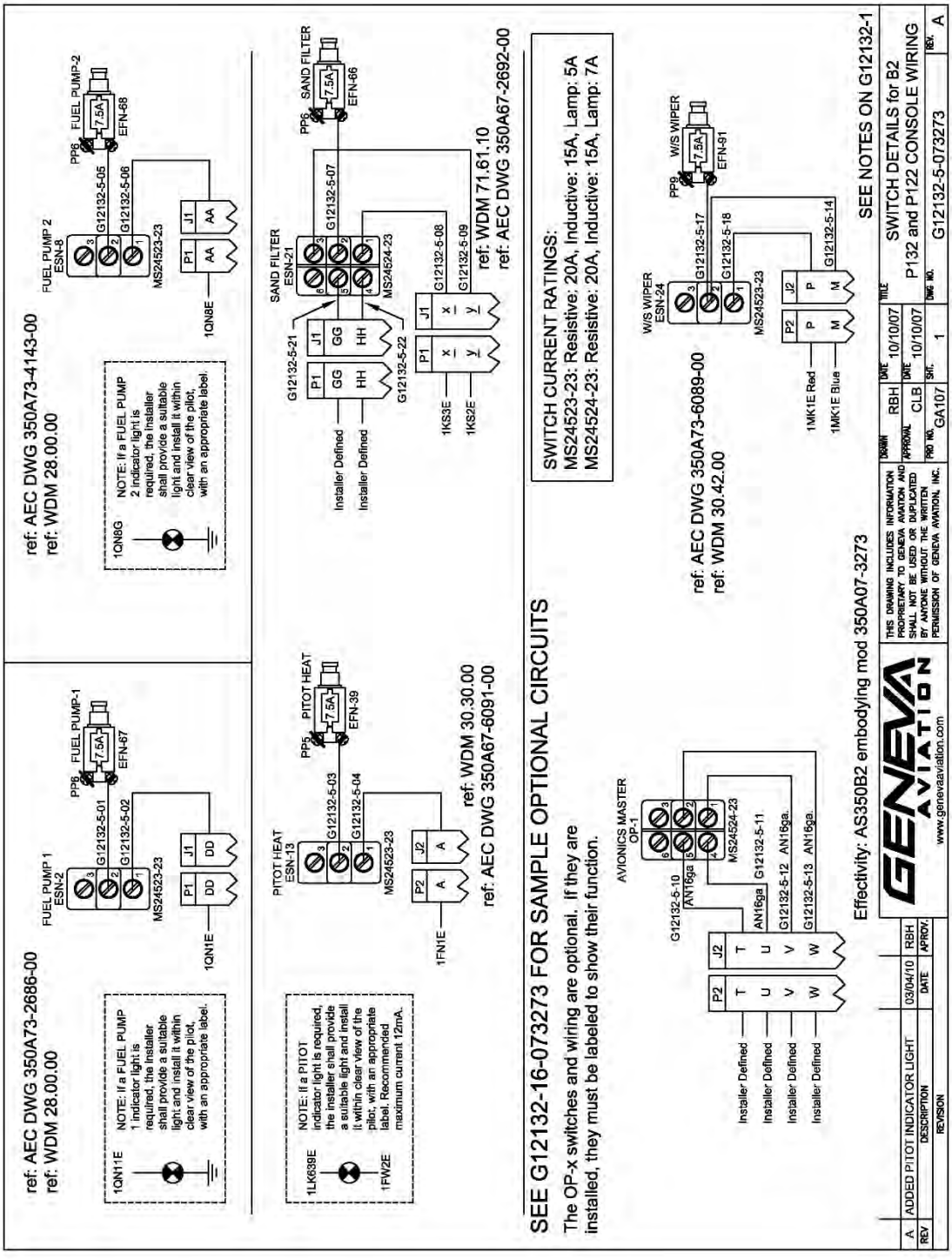

Figure 106: Switch Details (G12132-5-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

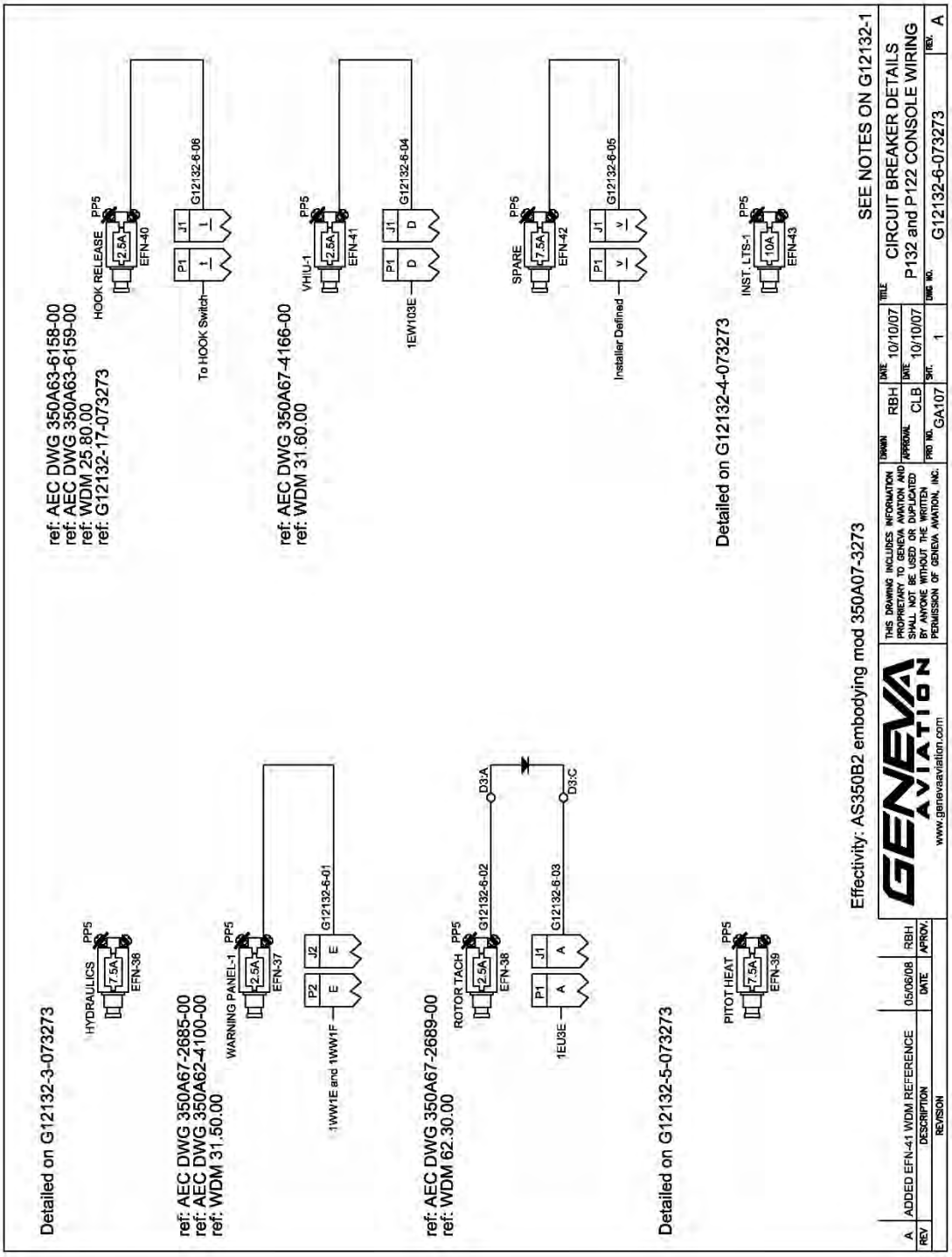

Figure 107: Circuit Breaker Details (G12132-6-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

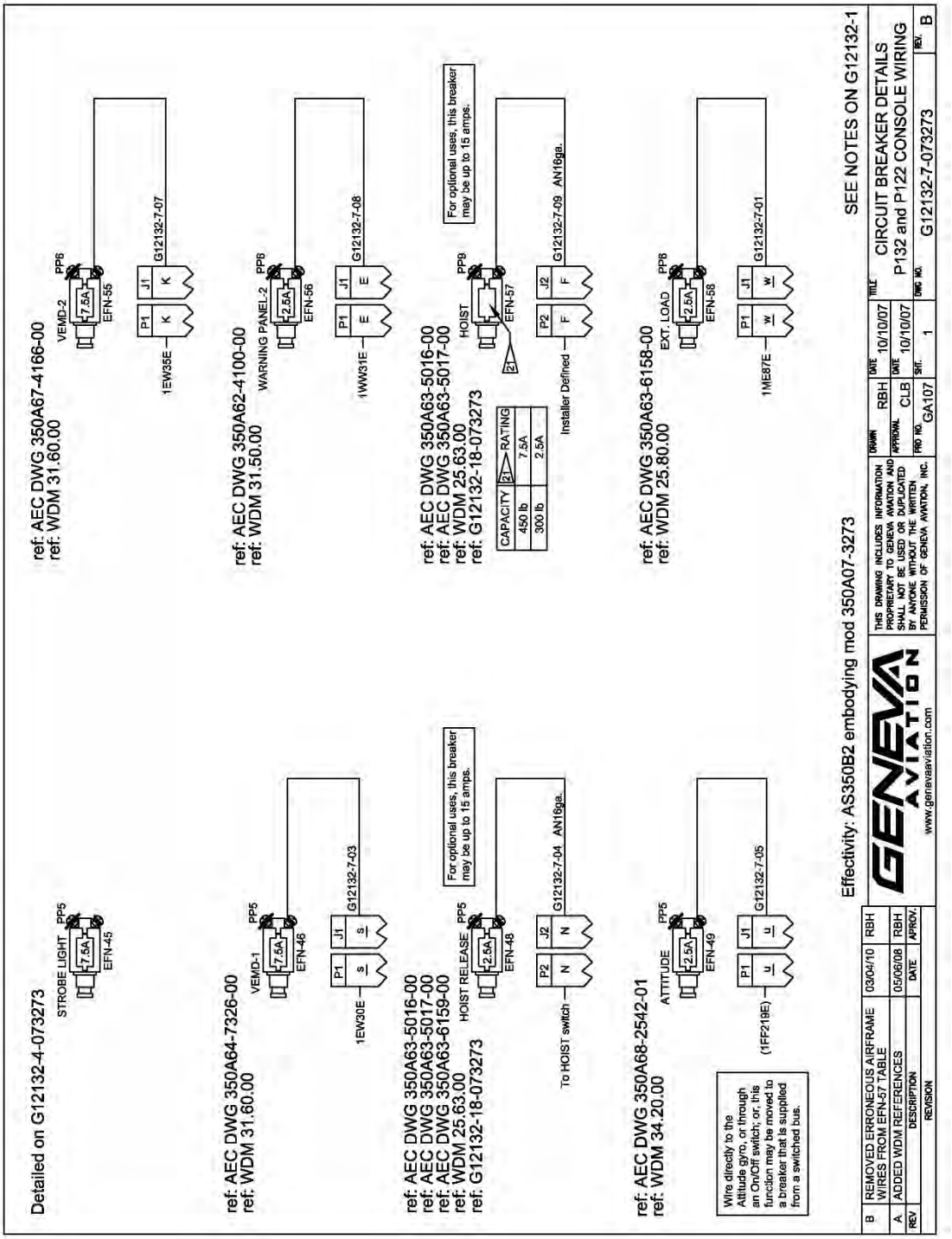

Figure 108: Circuit Breaker Details (G12132-7-073273 Rev B)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

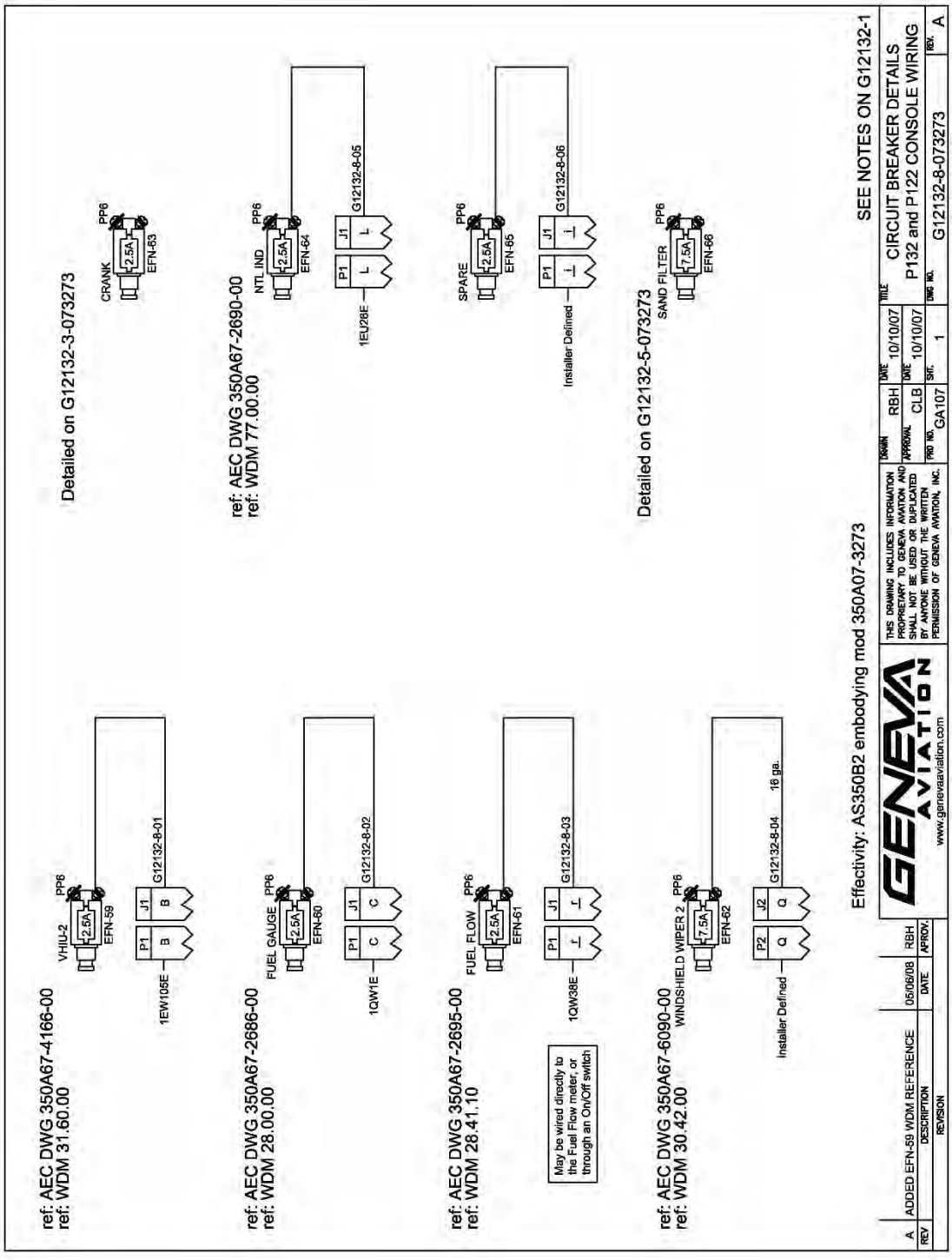

Figure 109: Circuit Breaker Details (G12132-8-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

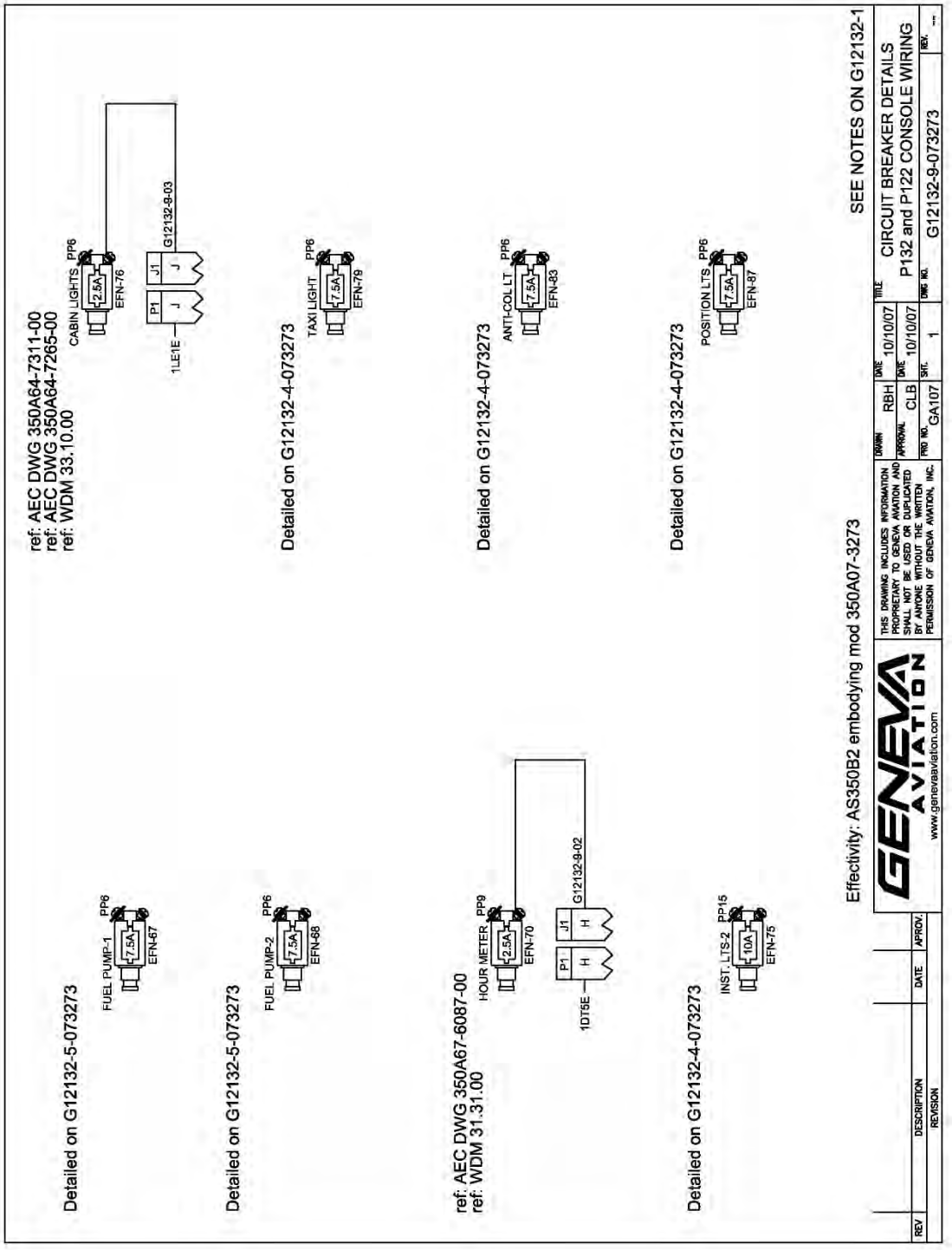

Figure 110: Circuit Breaker Details (G12132-9-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

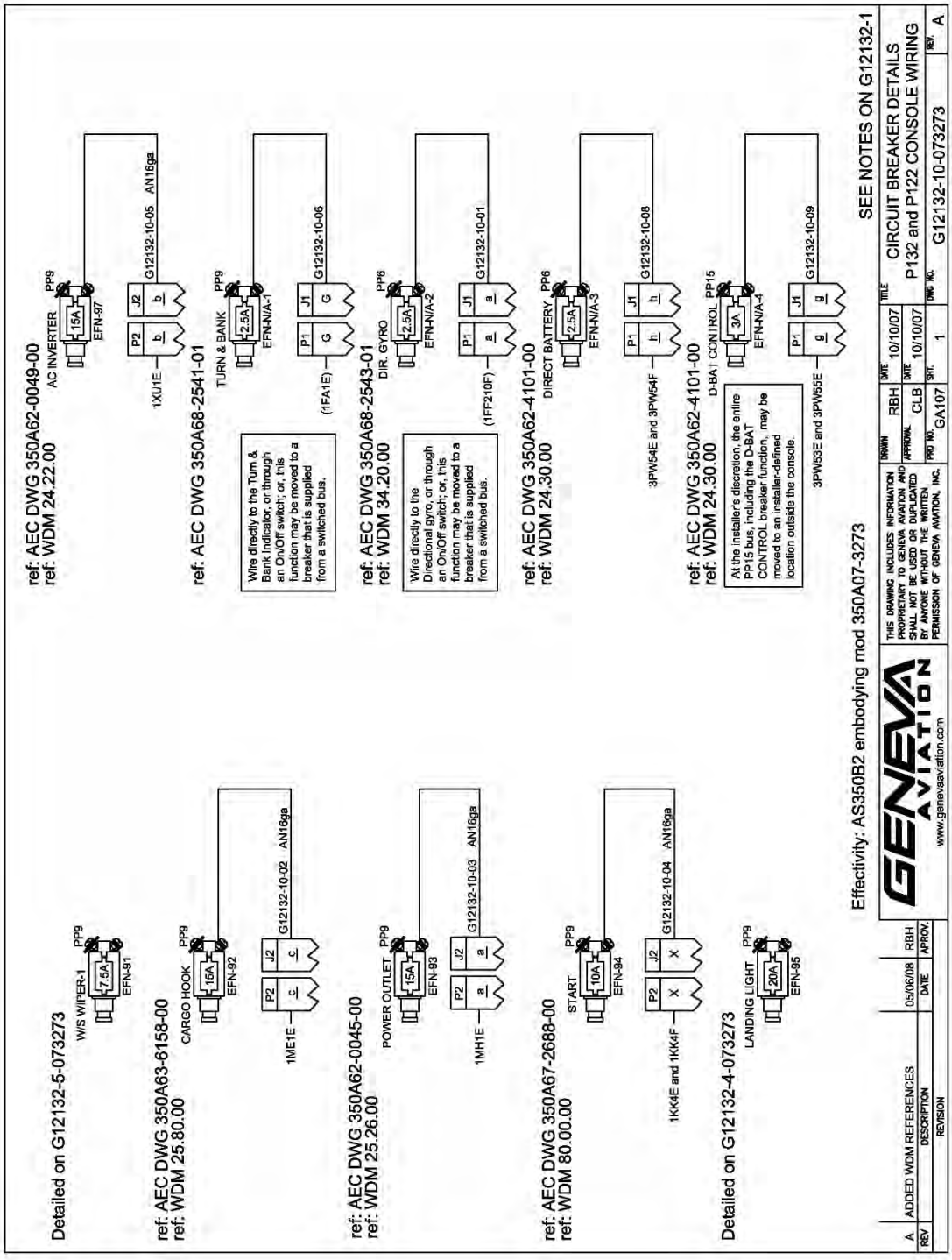

Figure 111: Circuit Breaker Details (G12132-10-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

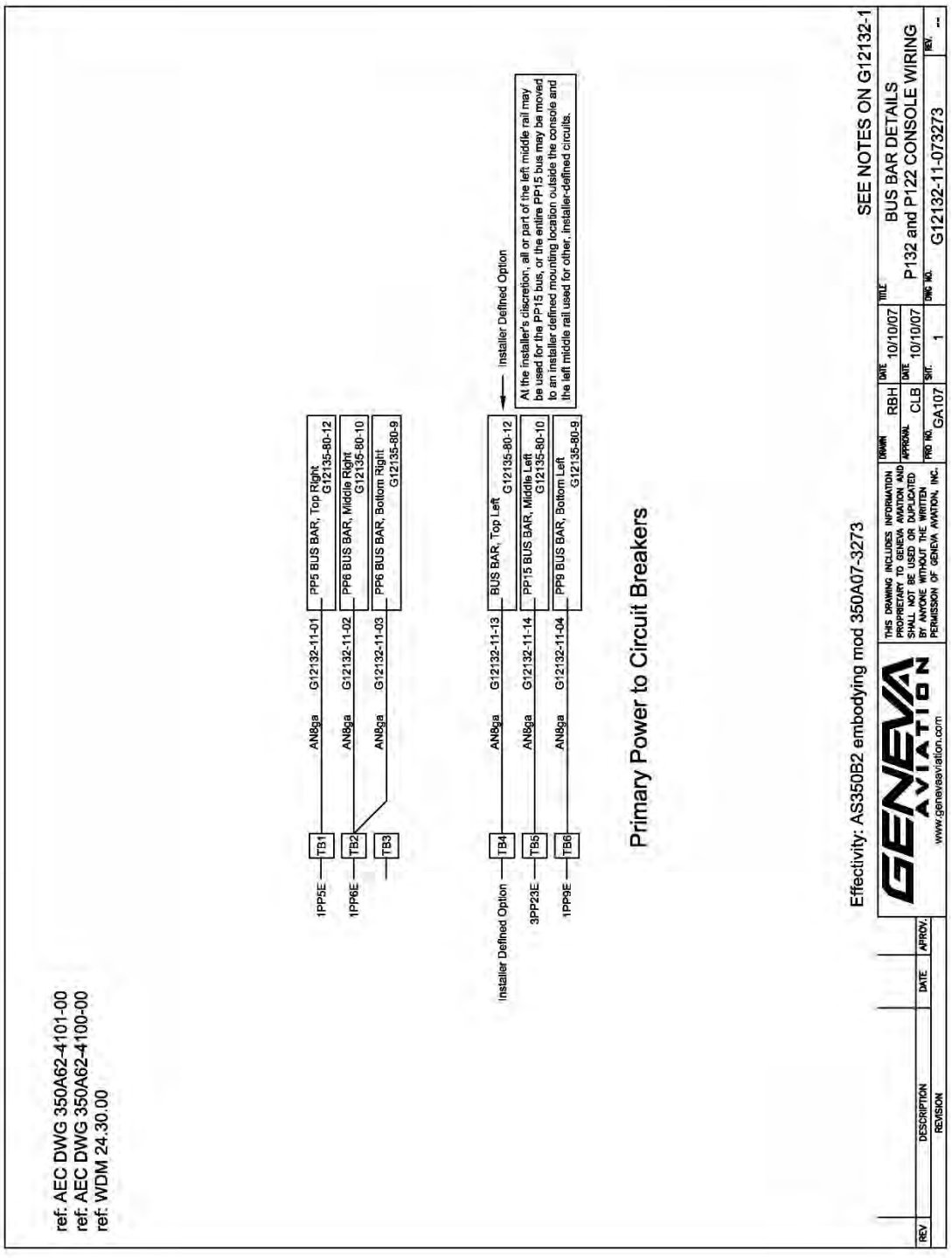

Figure 112: Bus Bar Details (G12132-11-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

Figure 113: Optional Circuit Breakers (G12132-12-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

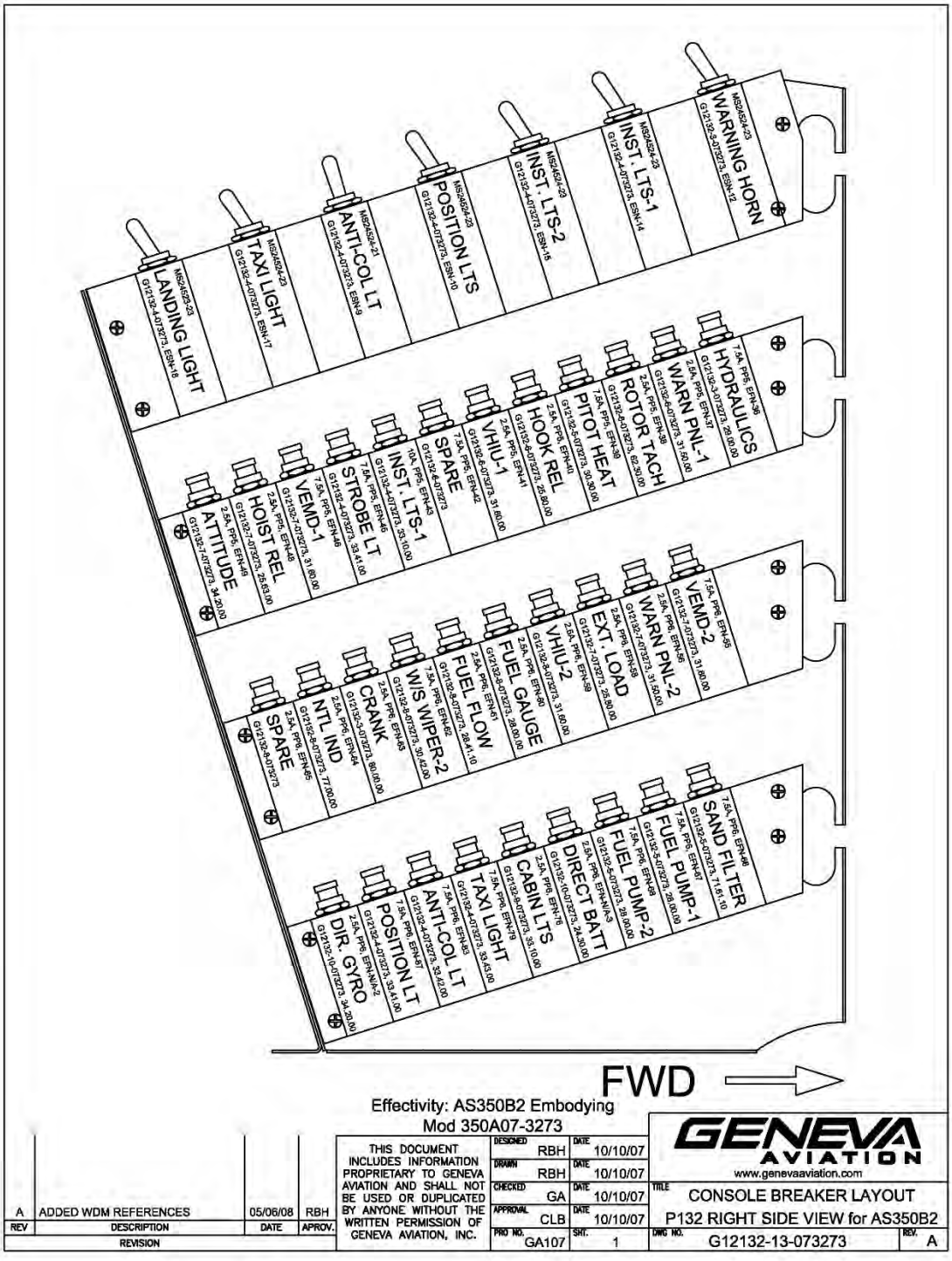

Figure 114: P132 Console RH Side CB Layout (G12132-13-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

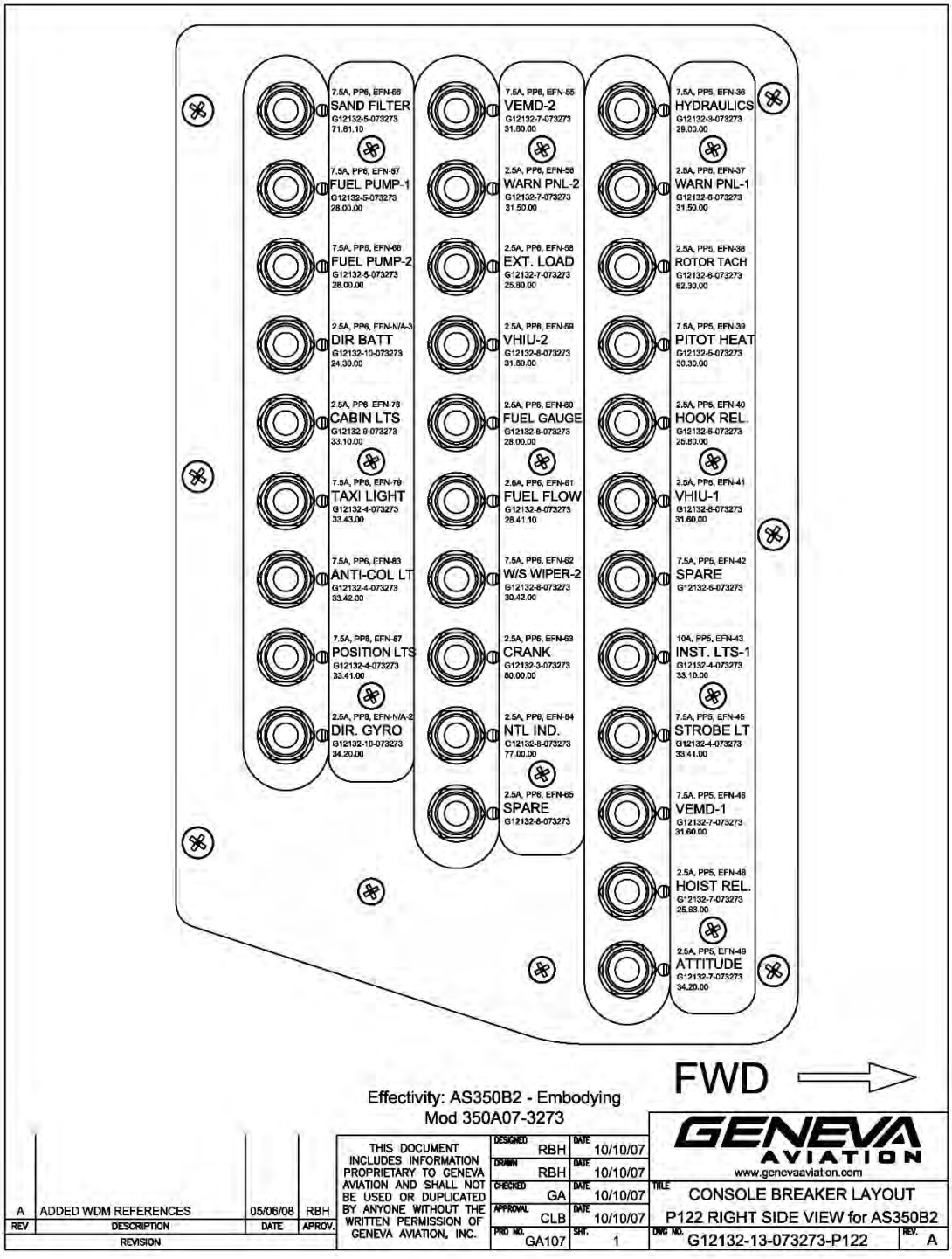

Figure 115: P122 Console RH Side CB Layout (G12132-13-073273-P122 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

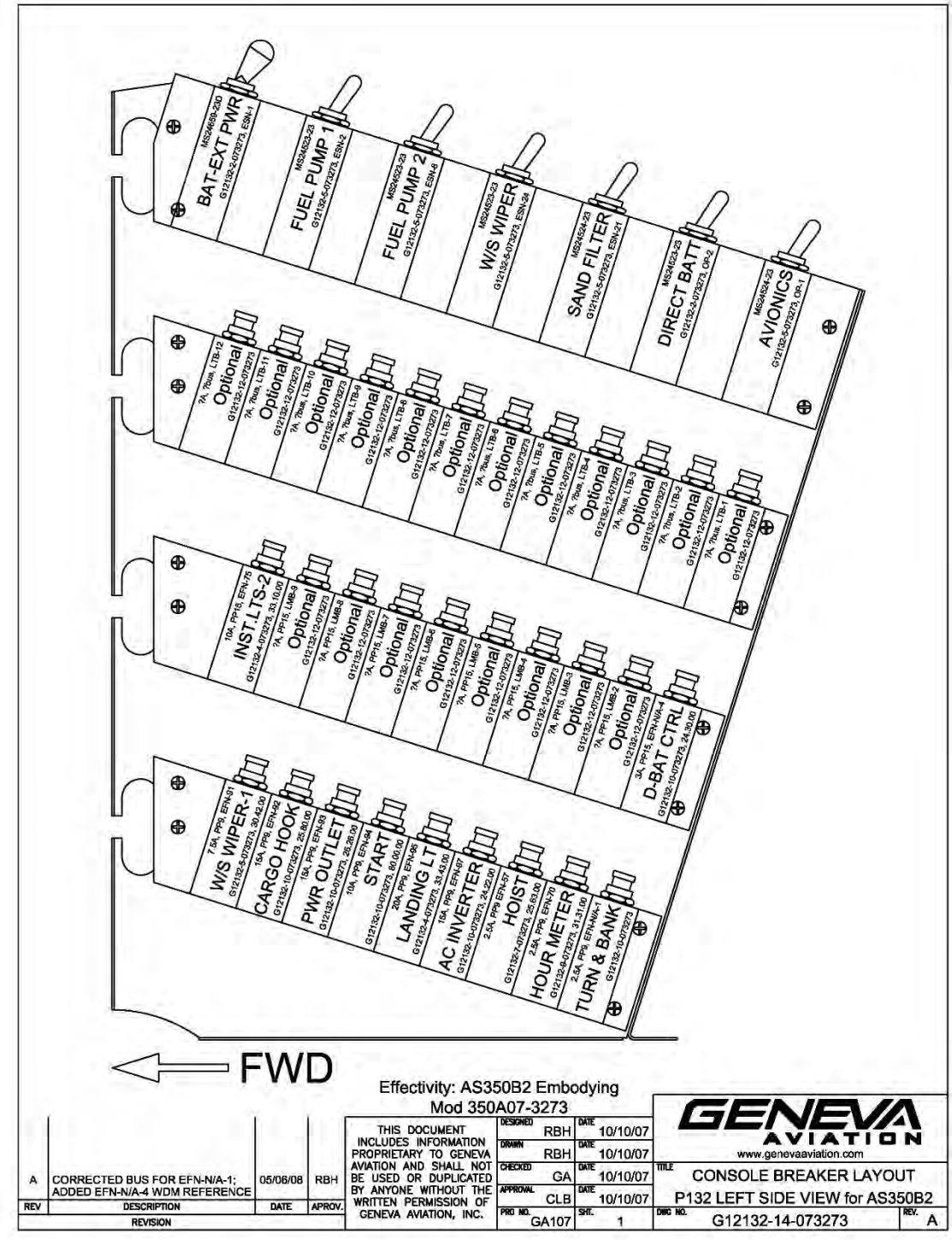

Figure 116: P132 Console LH Side CB Layout (G12132-14-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

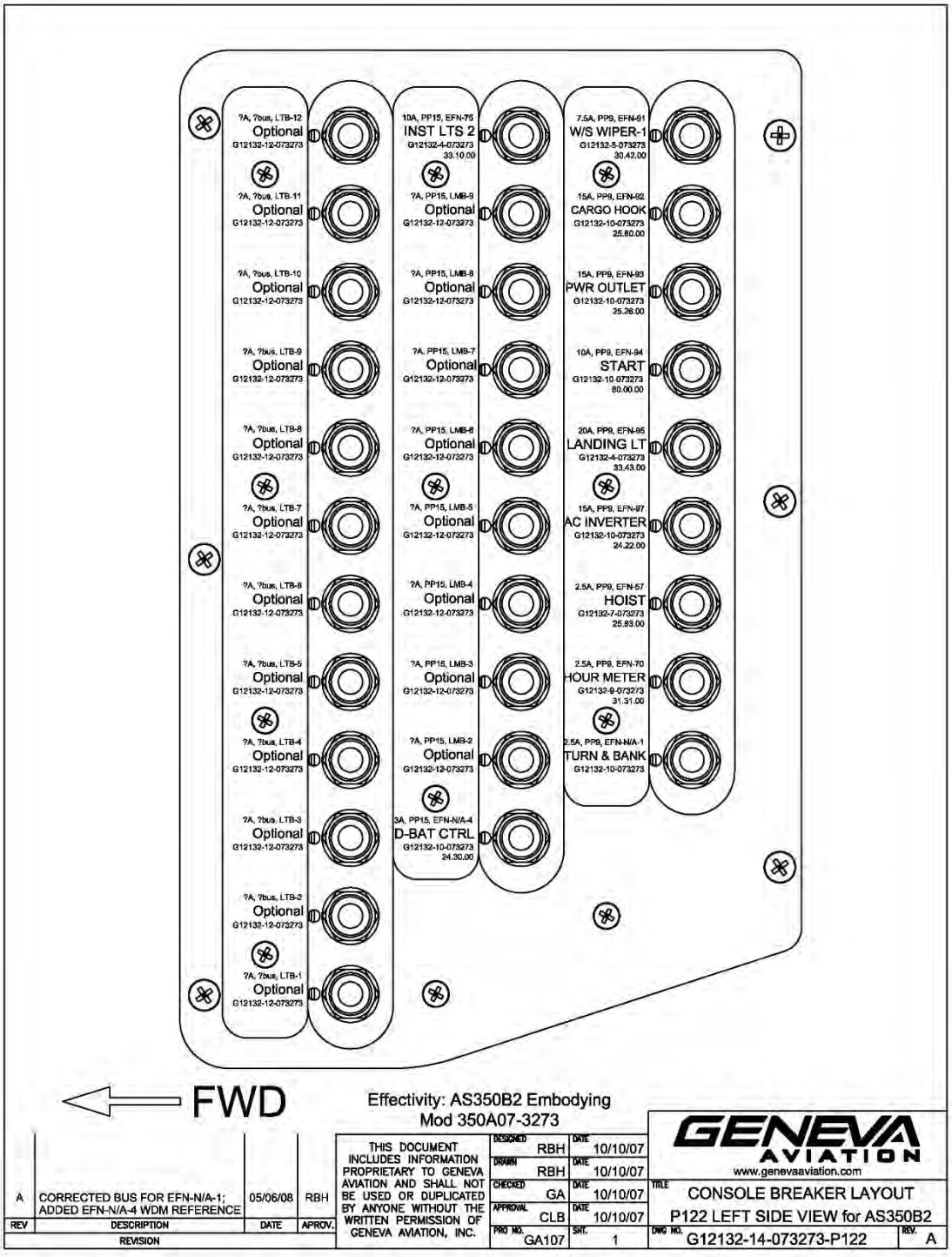

Figure 117: P132 Console LH Side CB Layout (G12132-14-073273-P122 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

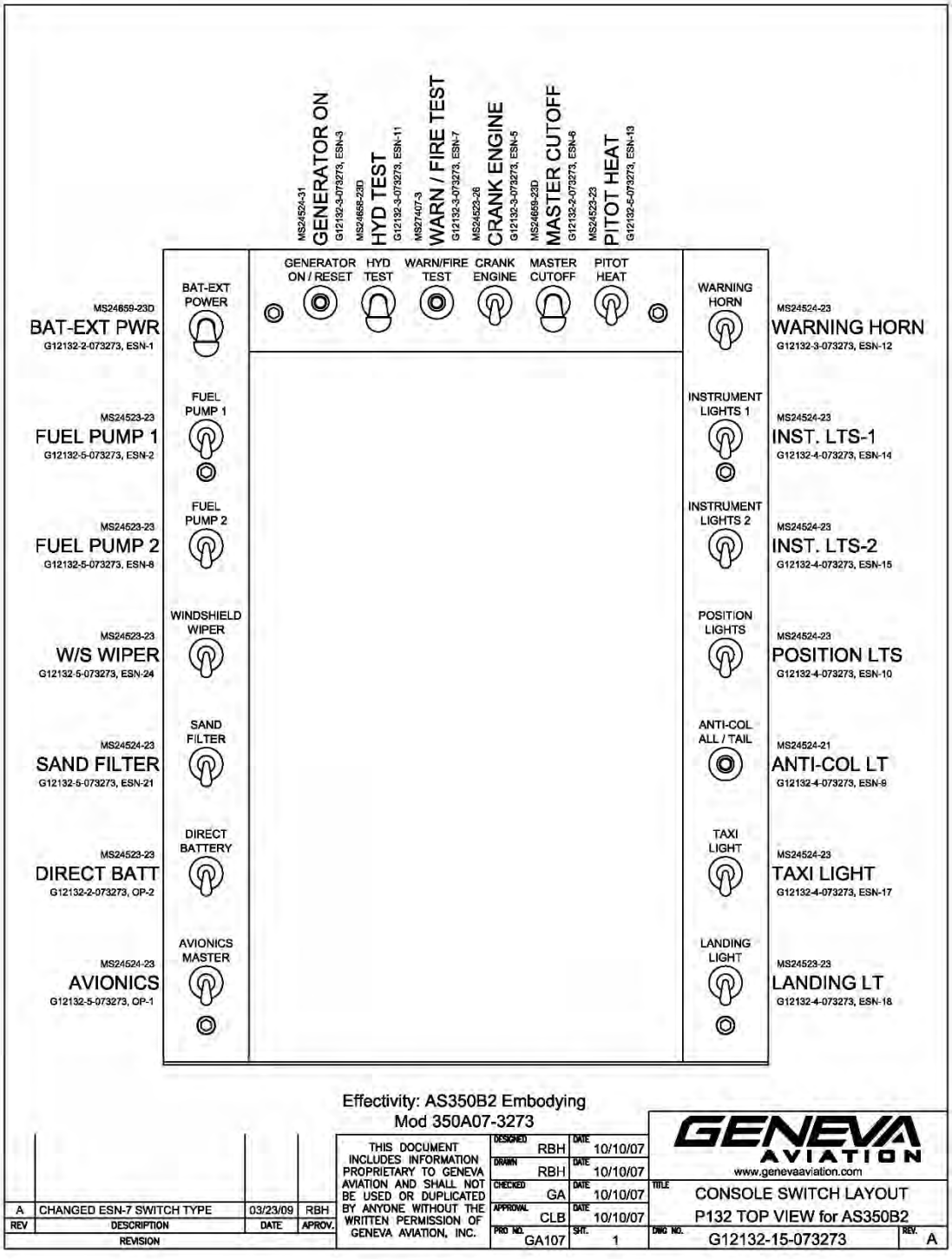

Figure 118: P132 Console Switch Layout (G12132-15-073273 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

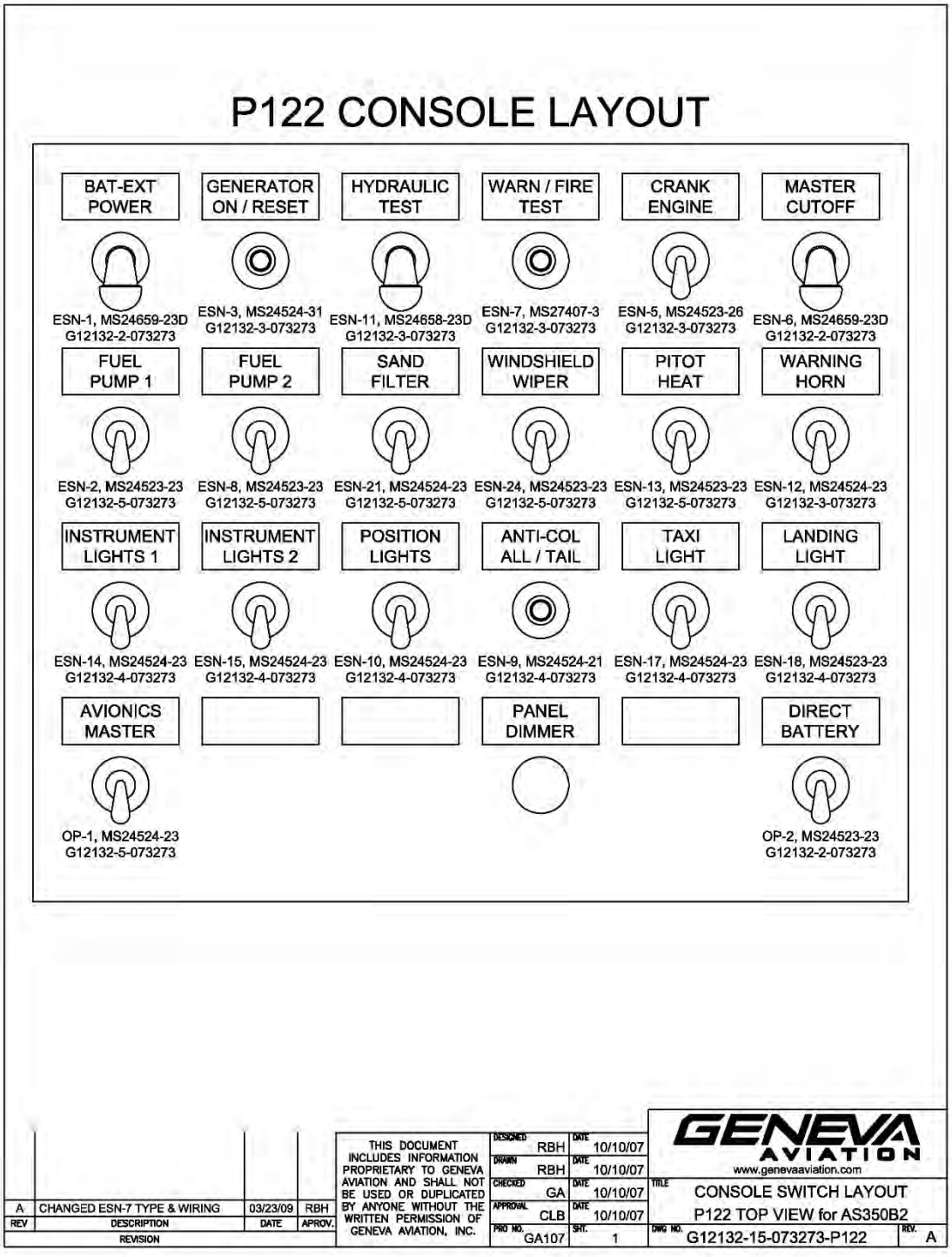

Figure 119: P122 Console Switch Layout (G12132-15-073273-P122 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

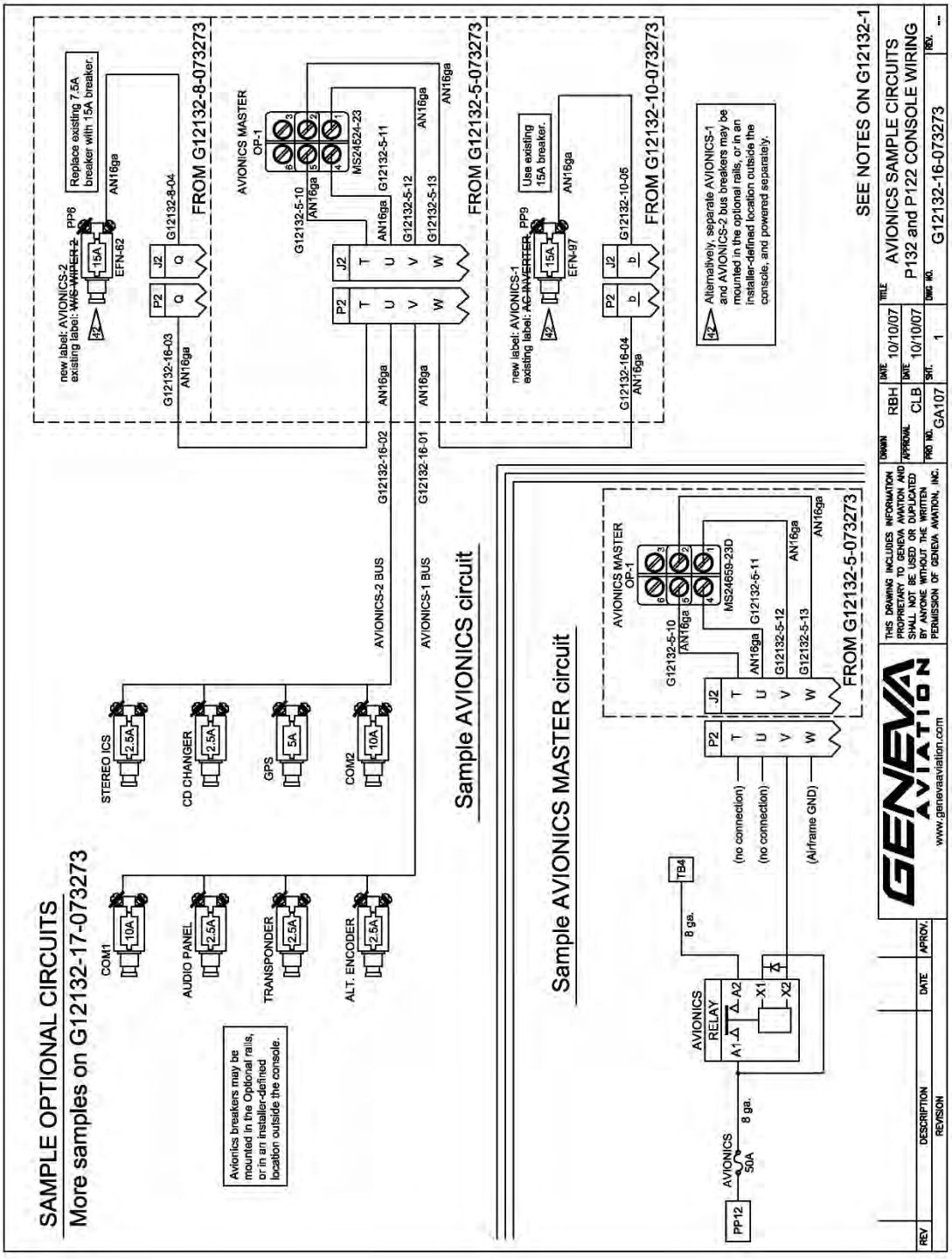

Figure 120: Console Avionics Sample Circuit (G12132-16-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

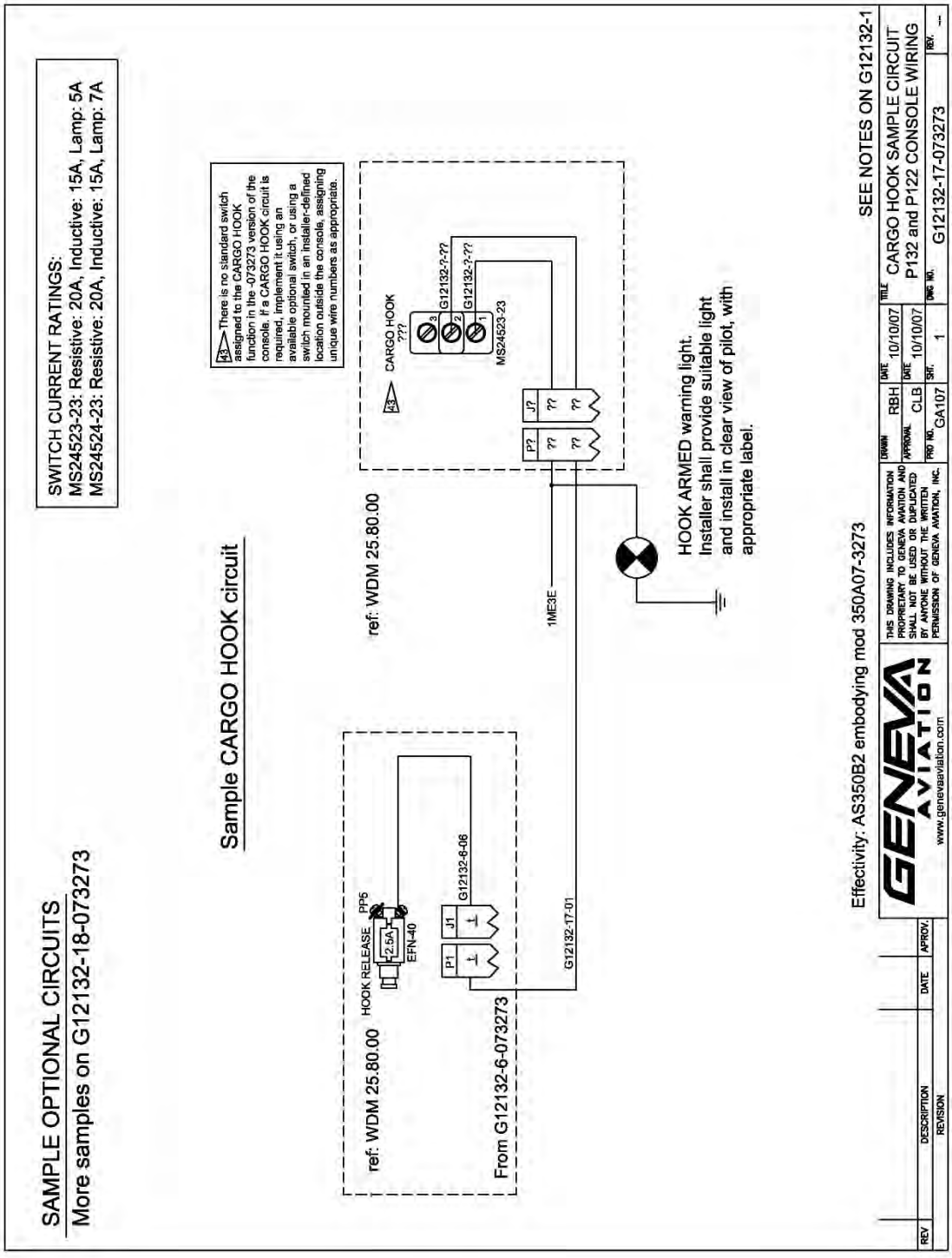

Figure 121: Cargo Hook Sample Circuit (G12132-17-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

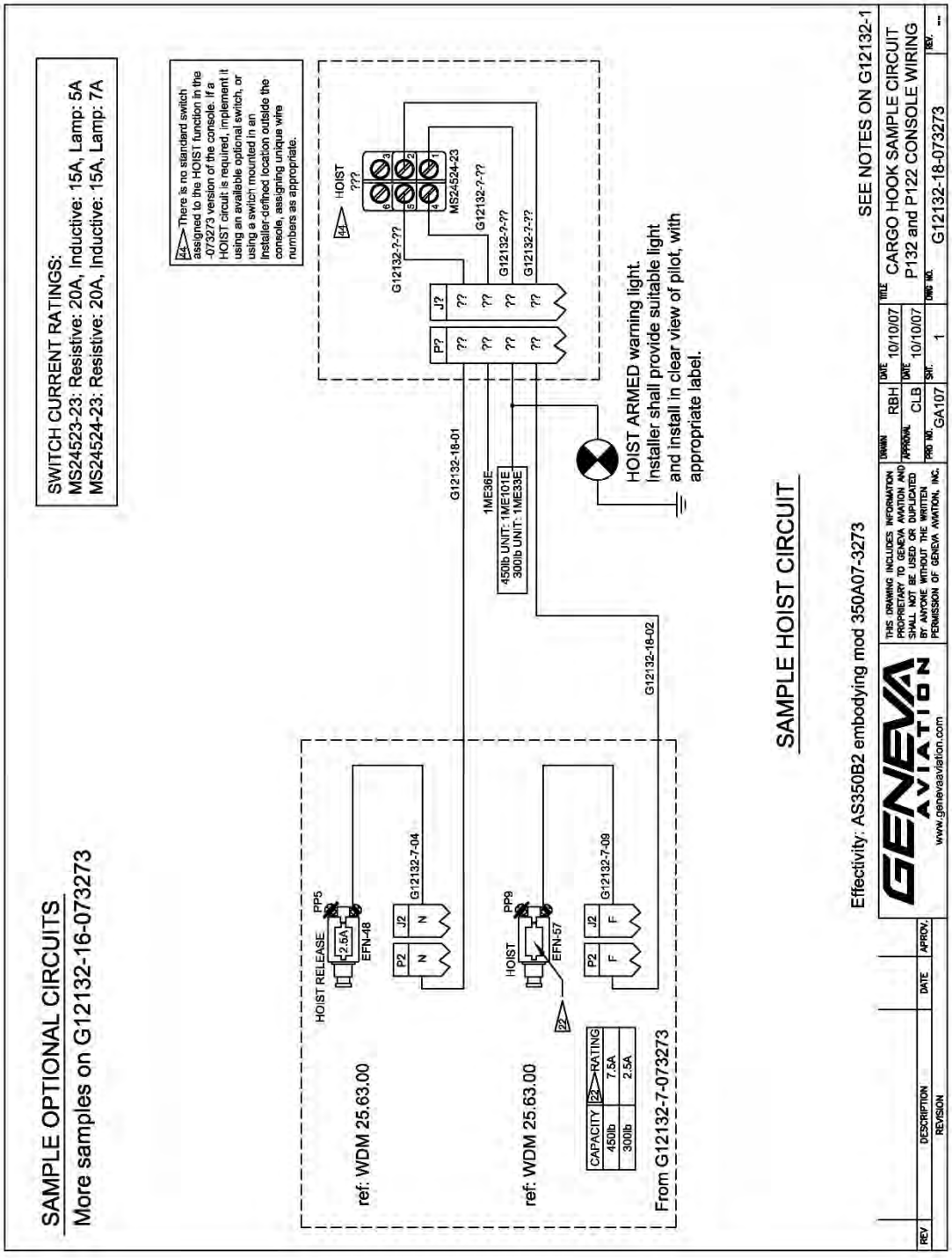

Figure 122: Hoist Sample Circuit (G12132-18-073273 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3273.

6.8 Wiring Diagrams Post-MOD AS350A07-3274

6.8.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B3 aircraft Post Mod 350A07-3274.

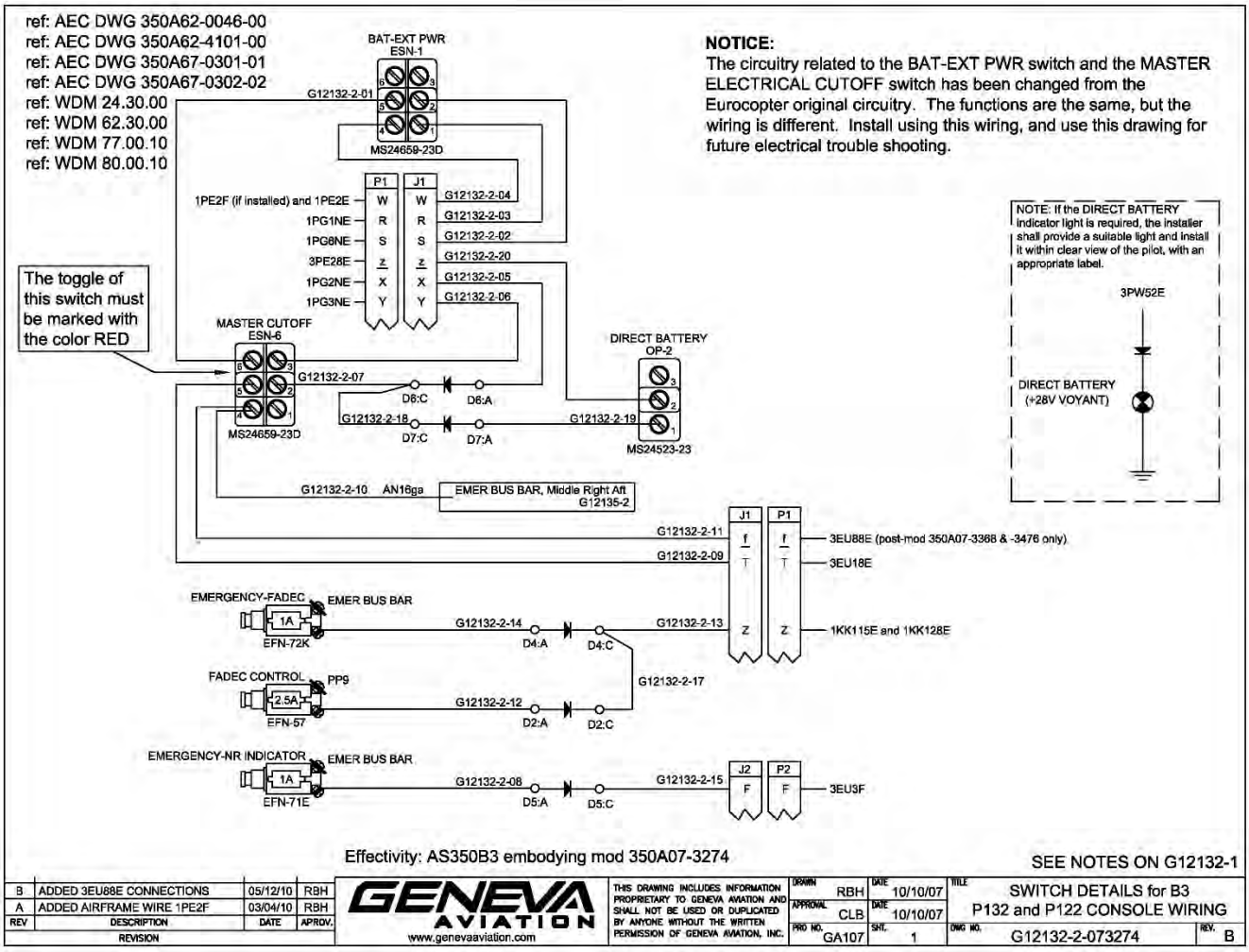

Figure 123: Switch Details (G12132-2-073274 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

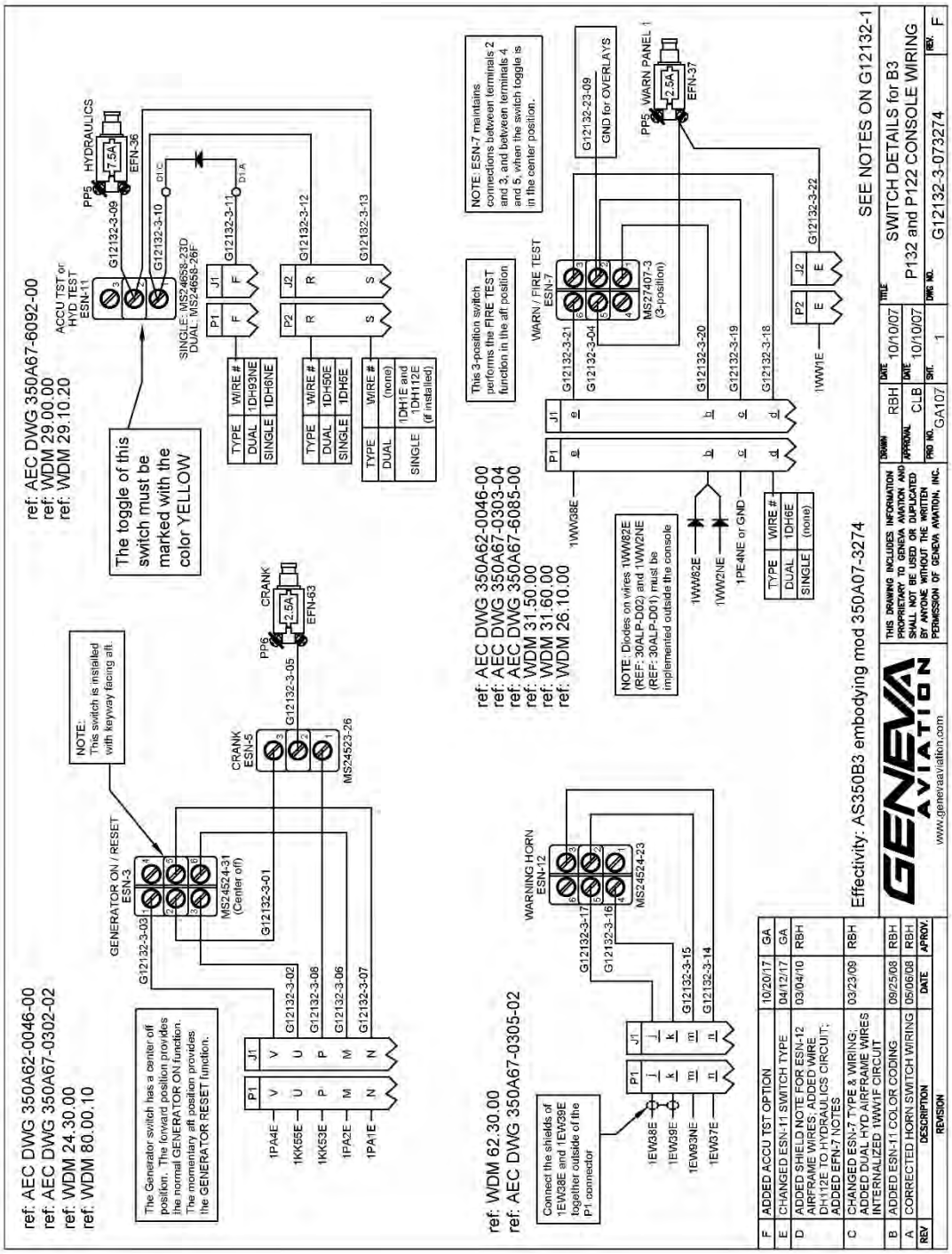

Figure 124: Switch Details (G12132-3-073274 Rev F)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

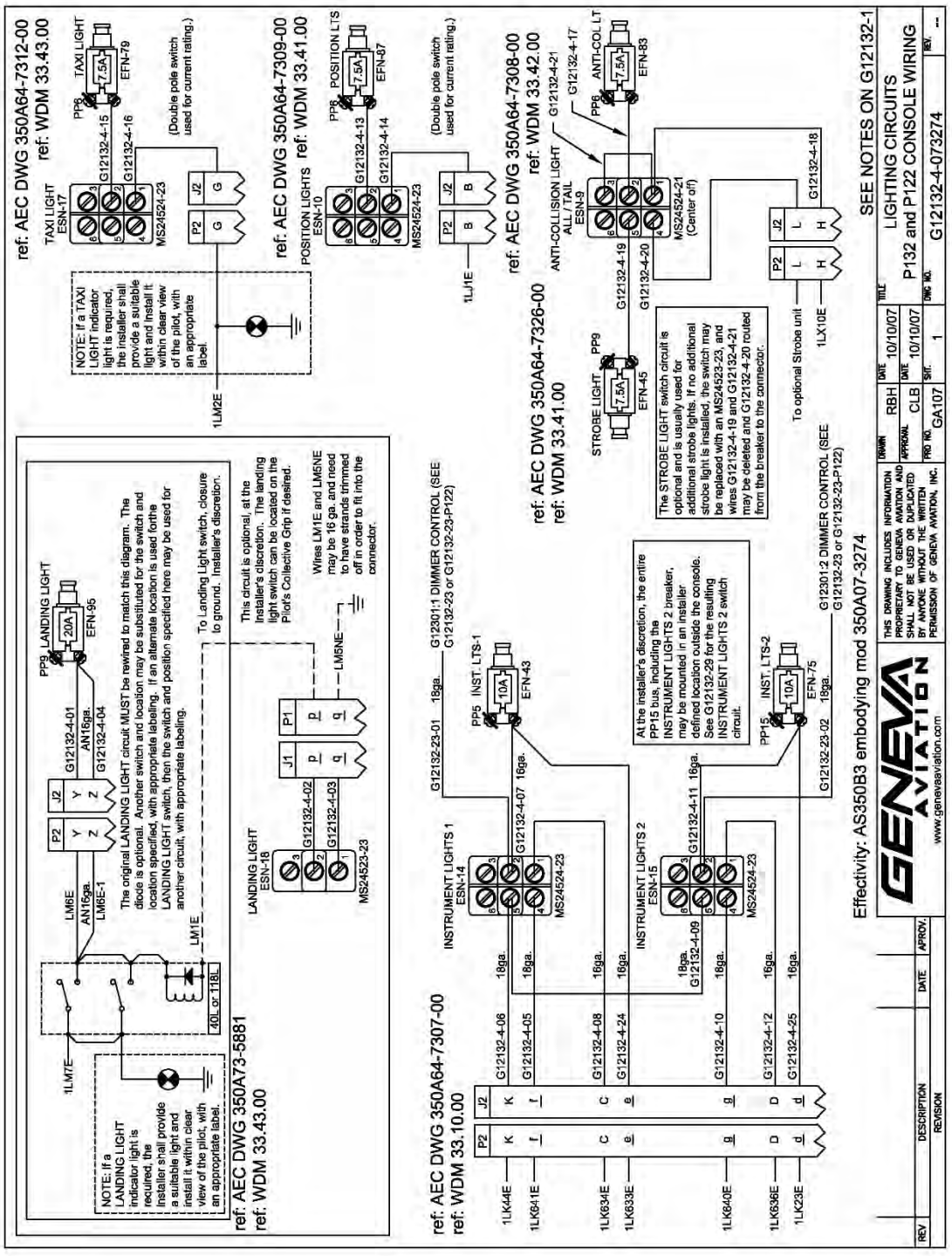

Figure 125: Lighting Circuits (G12132-4-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

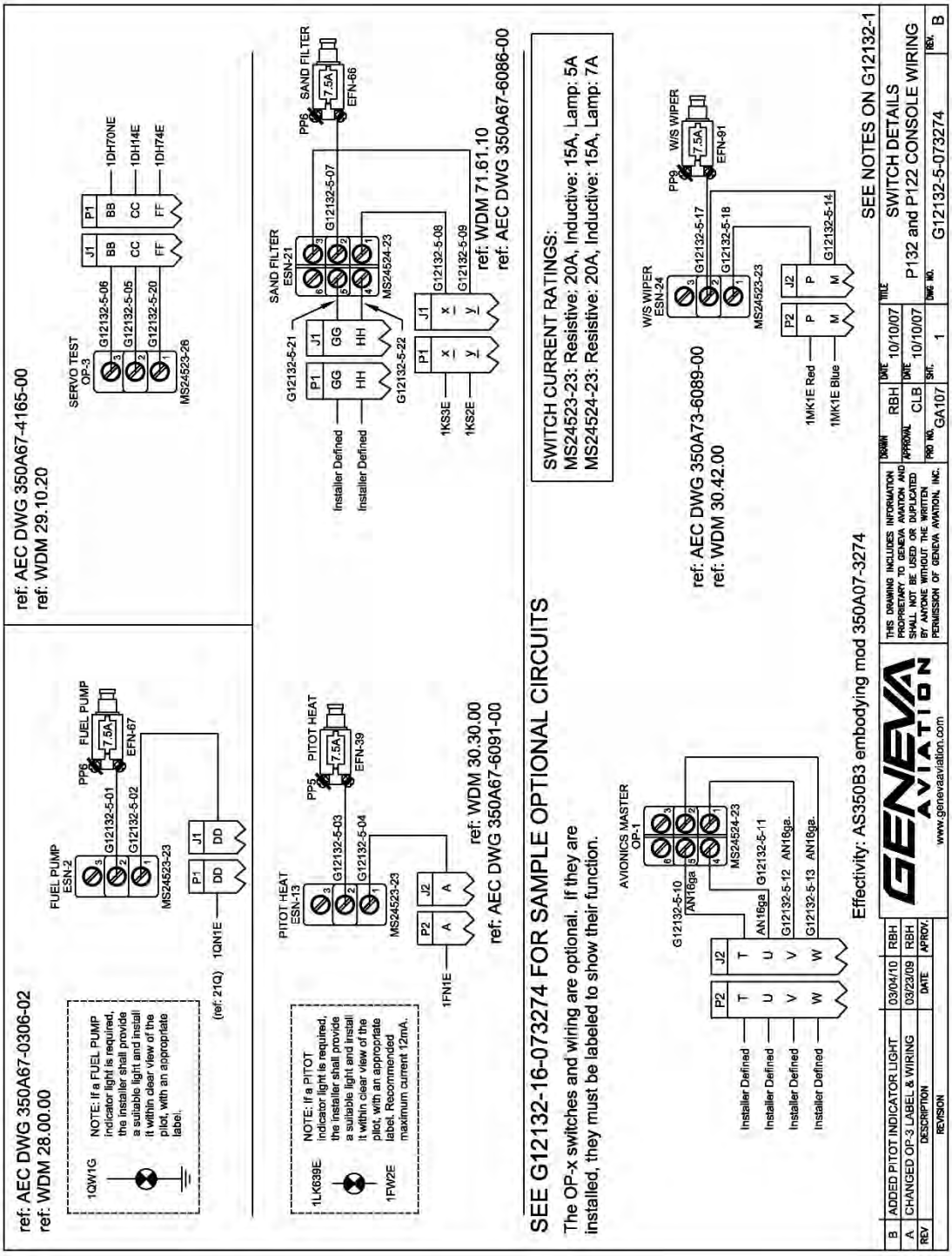

Figure 126: Switch Details (G12132-5-073274 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

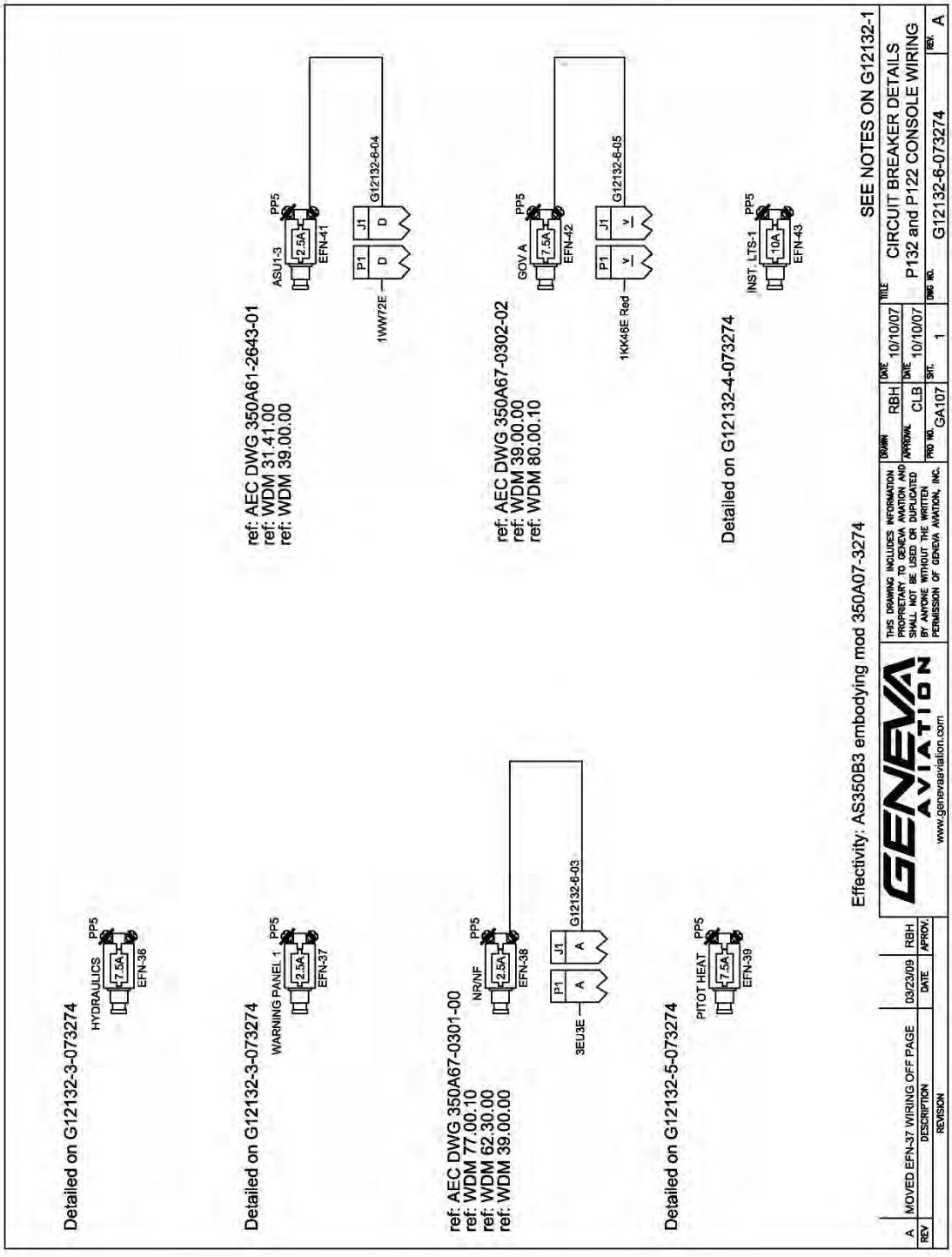

Figure 127: Circuit Breaker Details (G12132-6-073274 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

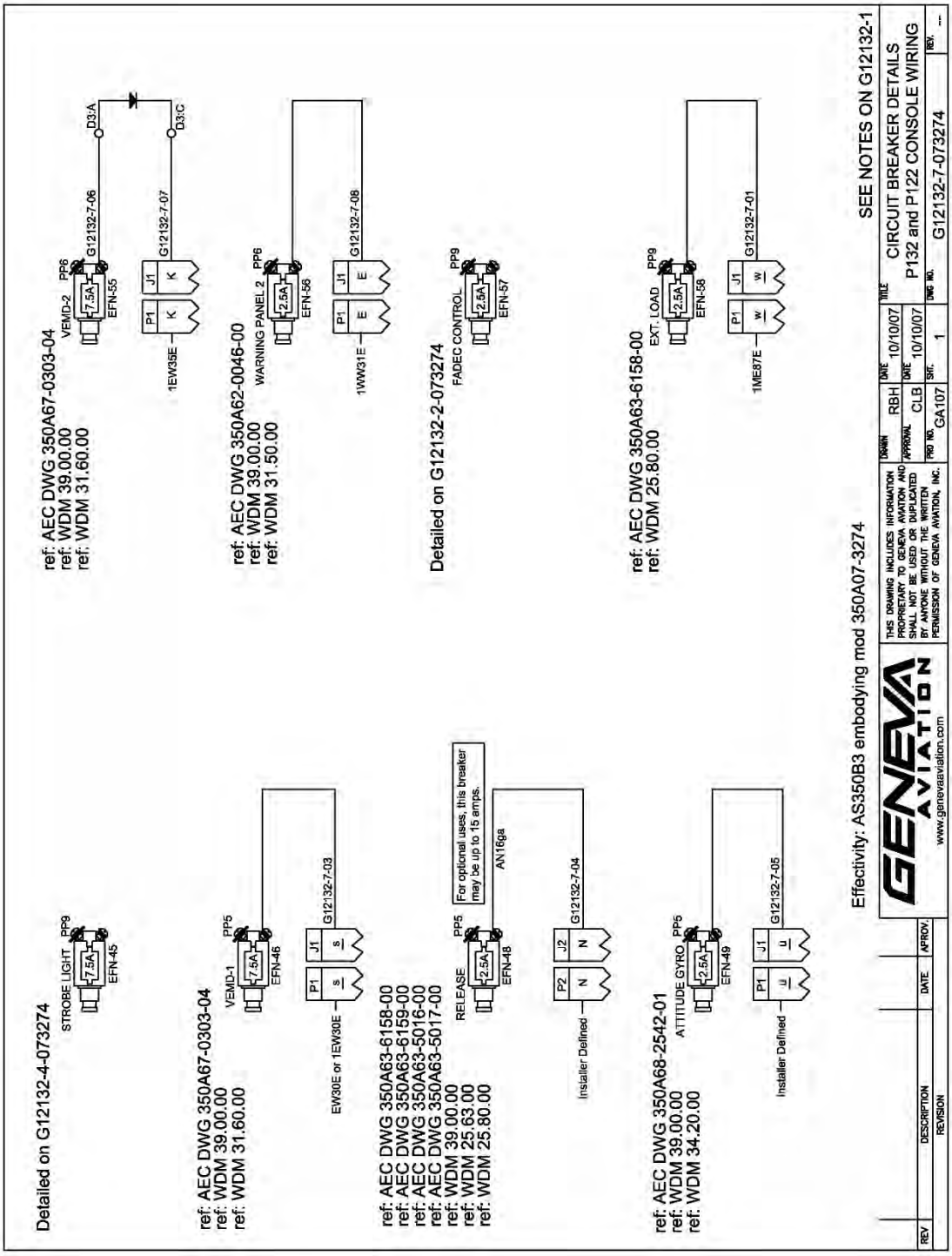

Figure 128: Circuit Breaker Details (G12132-7-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

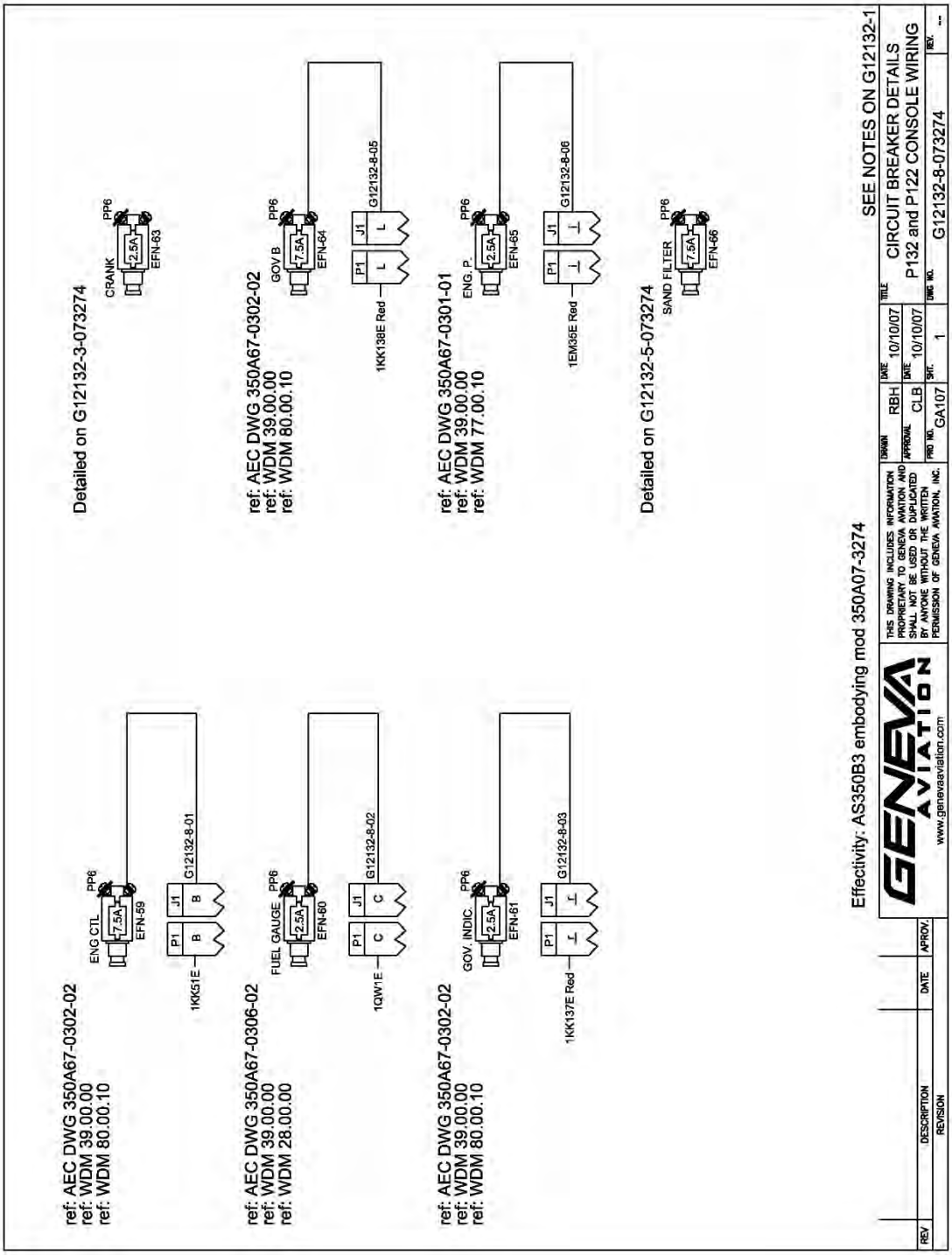

Figure 129: Circuit Breaker Details (G12132-8-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

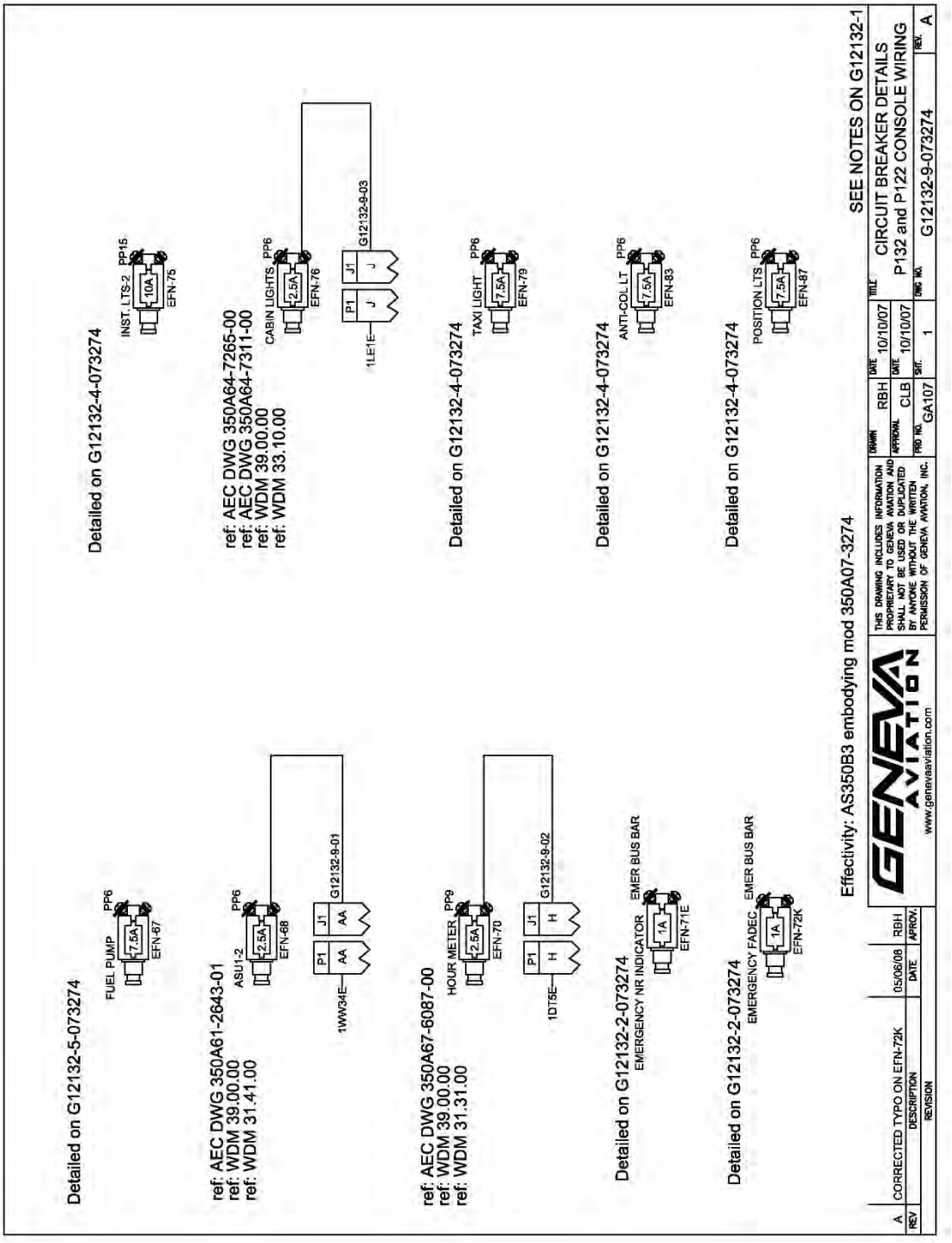

Figure 130: Circuit Breaker Details (G12132-9-073274 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

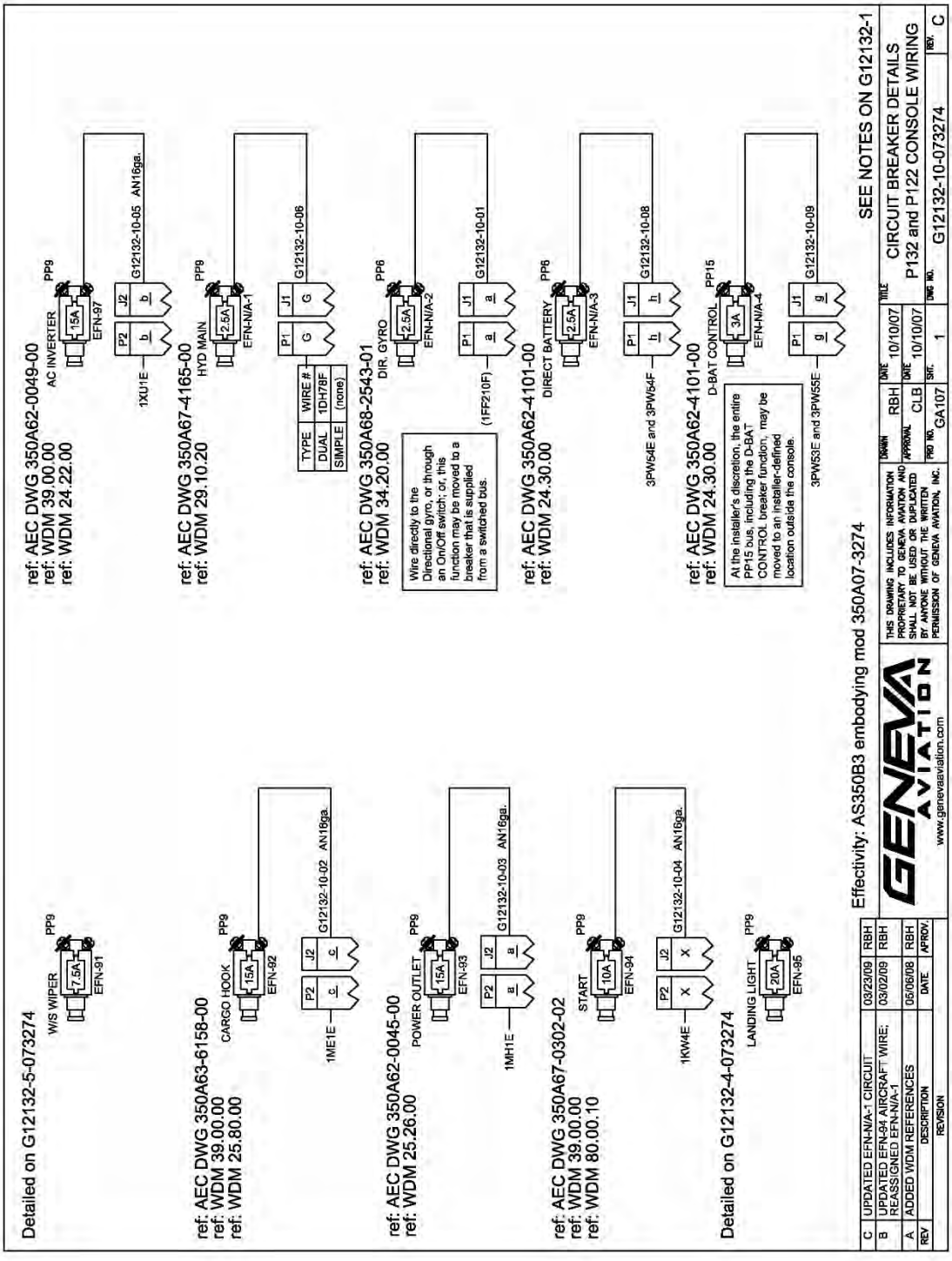

Figure 131: Circuit Breaker Details (G12132-10-073274 Rev C)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

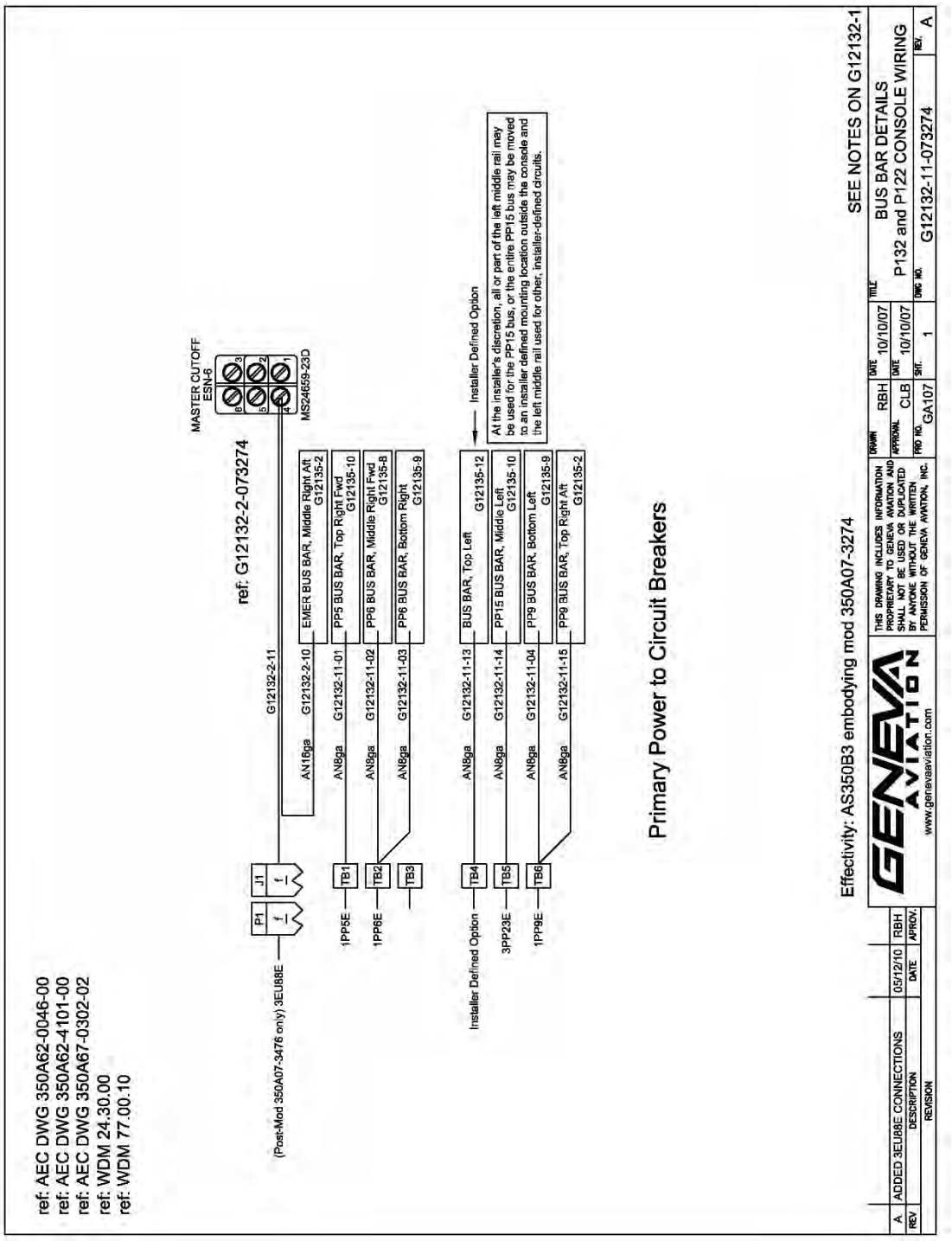

Figure 132: Bus Bar Details (G12132-11-073274 Rev A)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

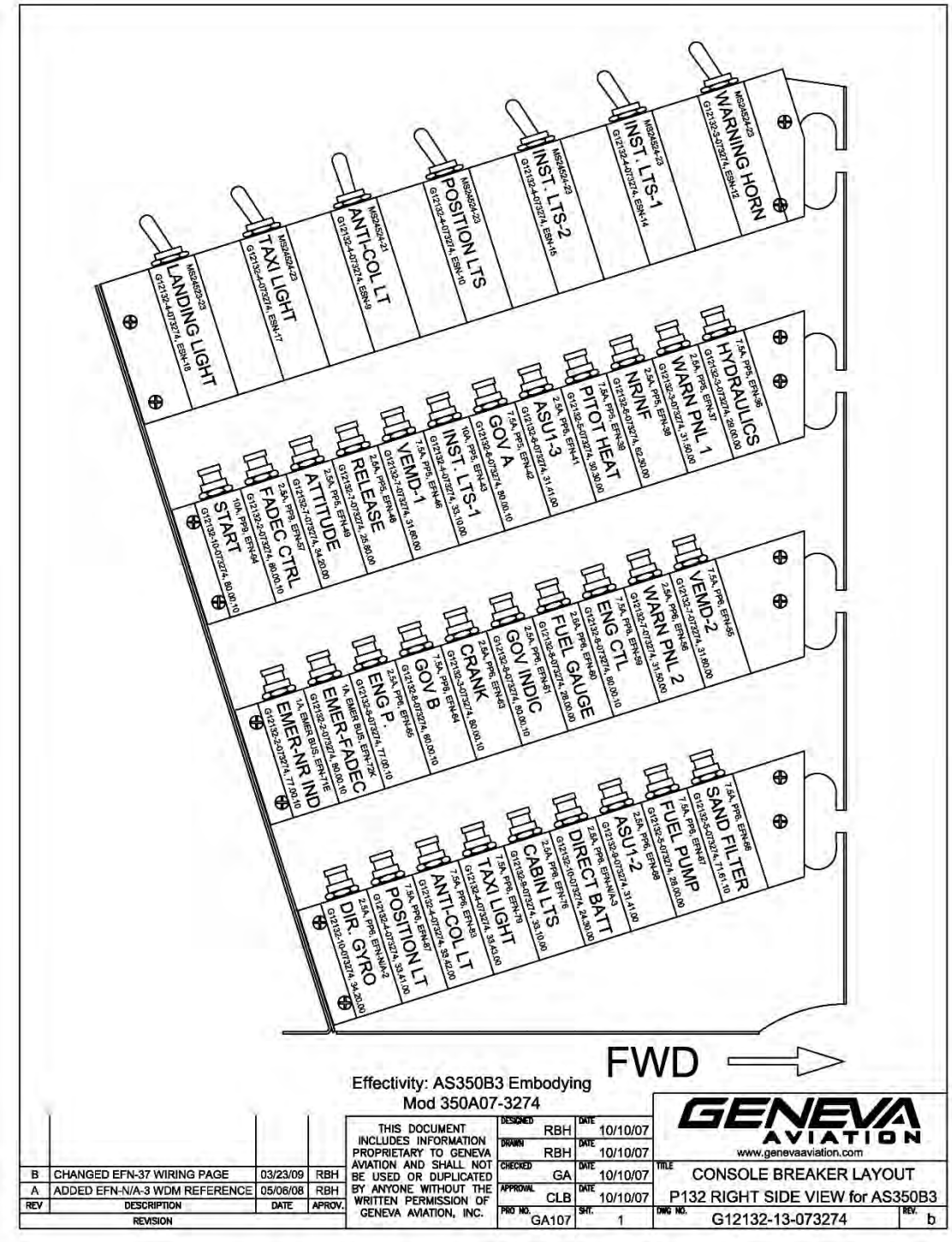

Figure 133: P132 Console RH Side CB Layout (G12132-13-073274 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

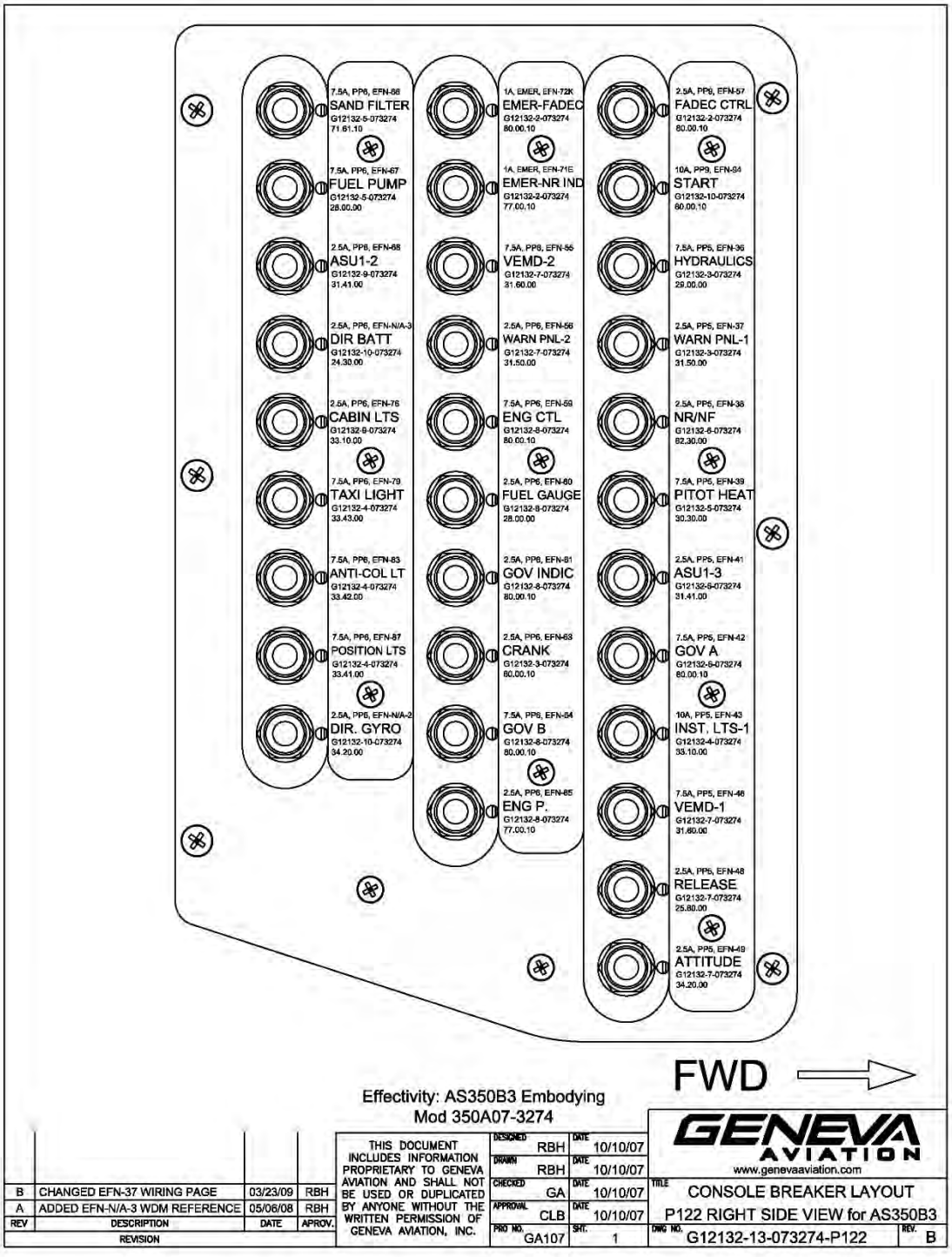

Figure 134: P122 Console RH Side CB Layout (G12132-13-073274-P122 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

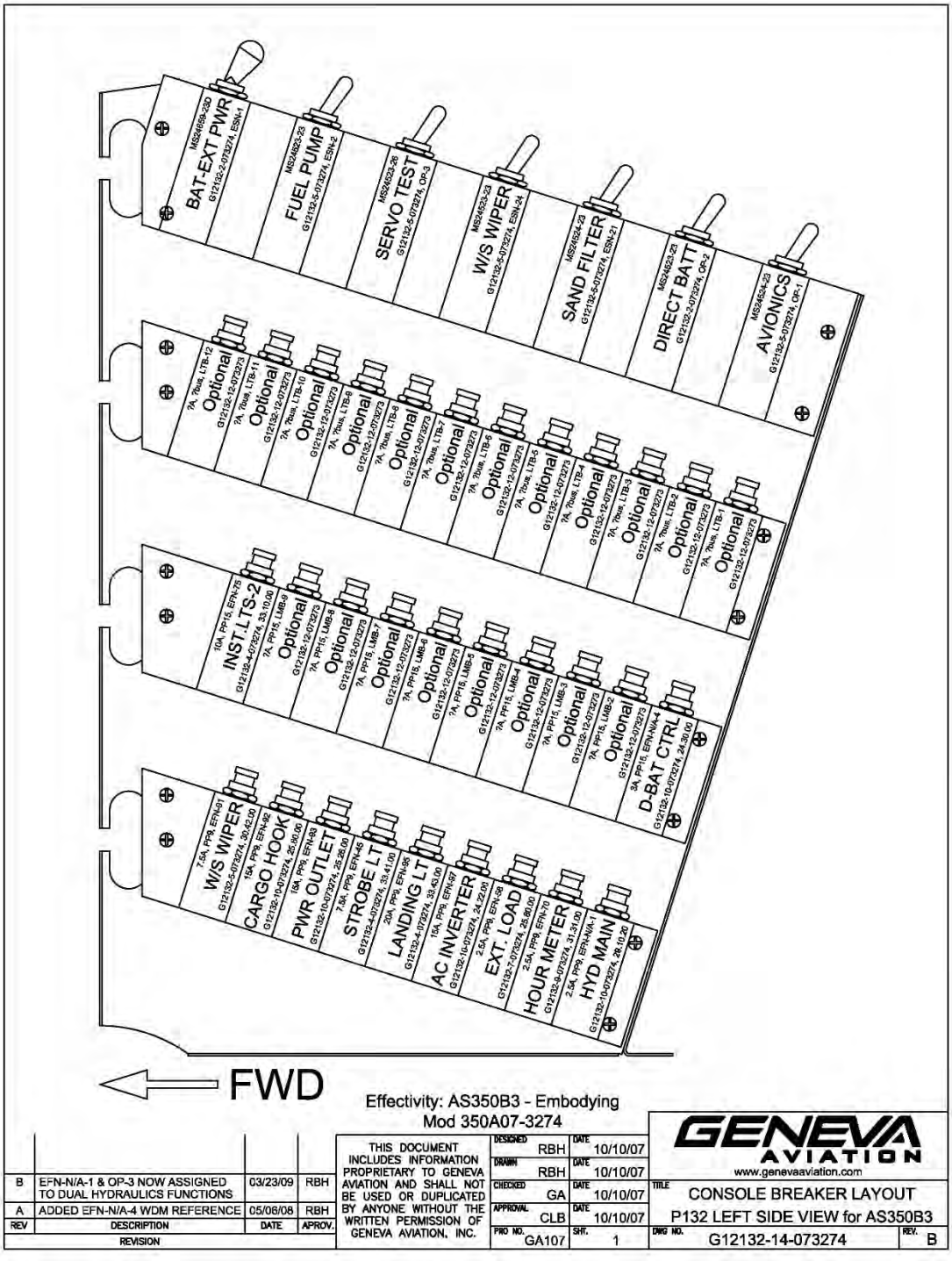

Figure 135: P132 Console LH Side CB Layout (G12132-14-073274 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

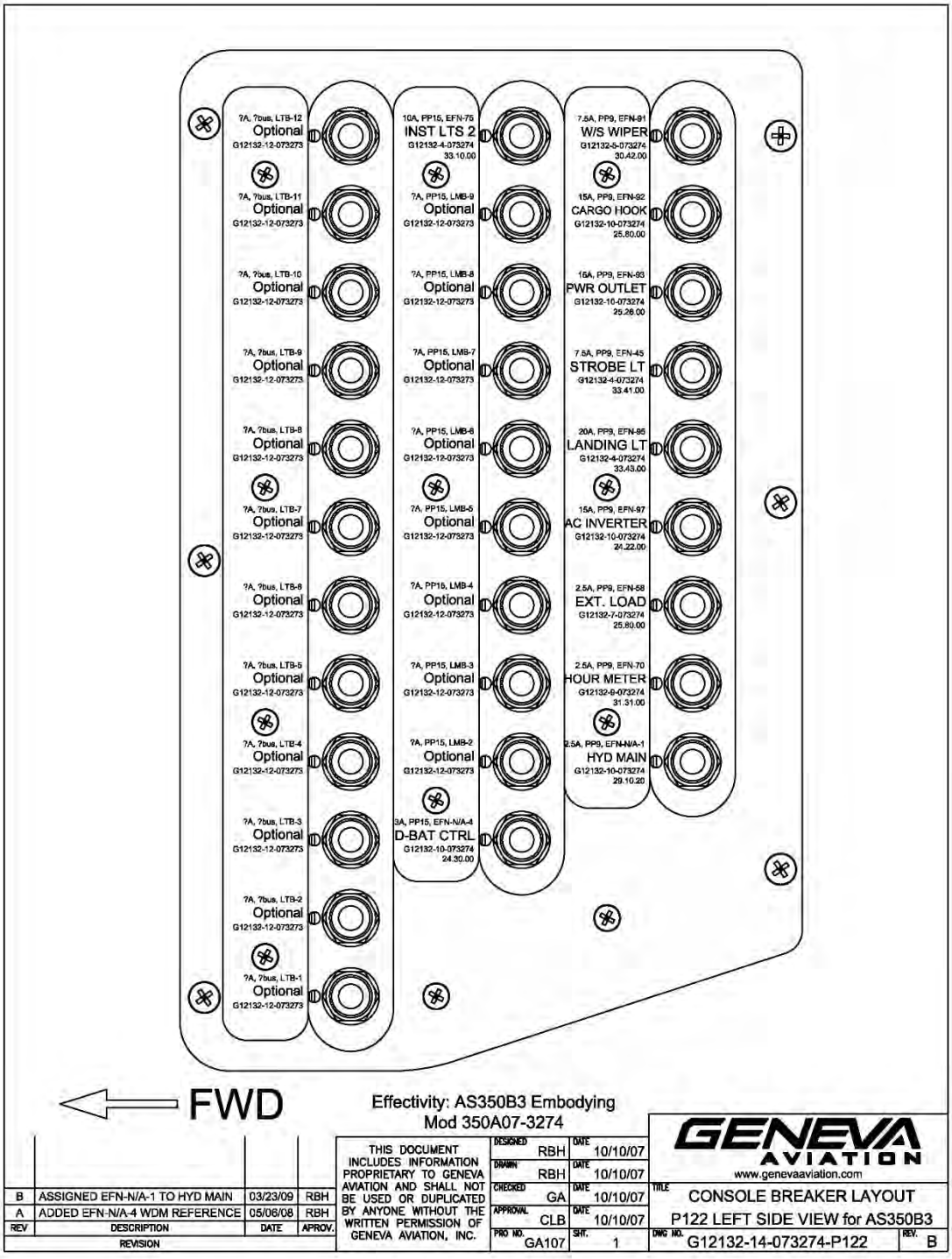

Figure 136: P132 Console LH Side CB Layout (G12132-14-073274-P122 Rev B)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

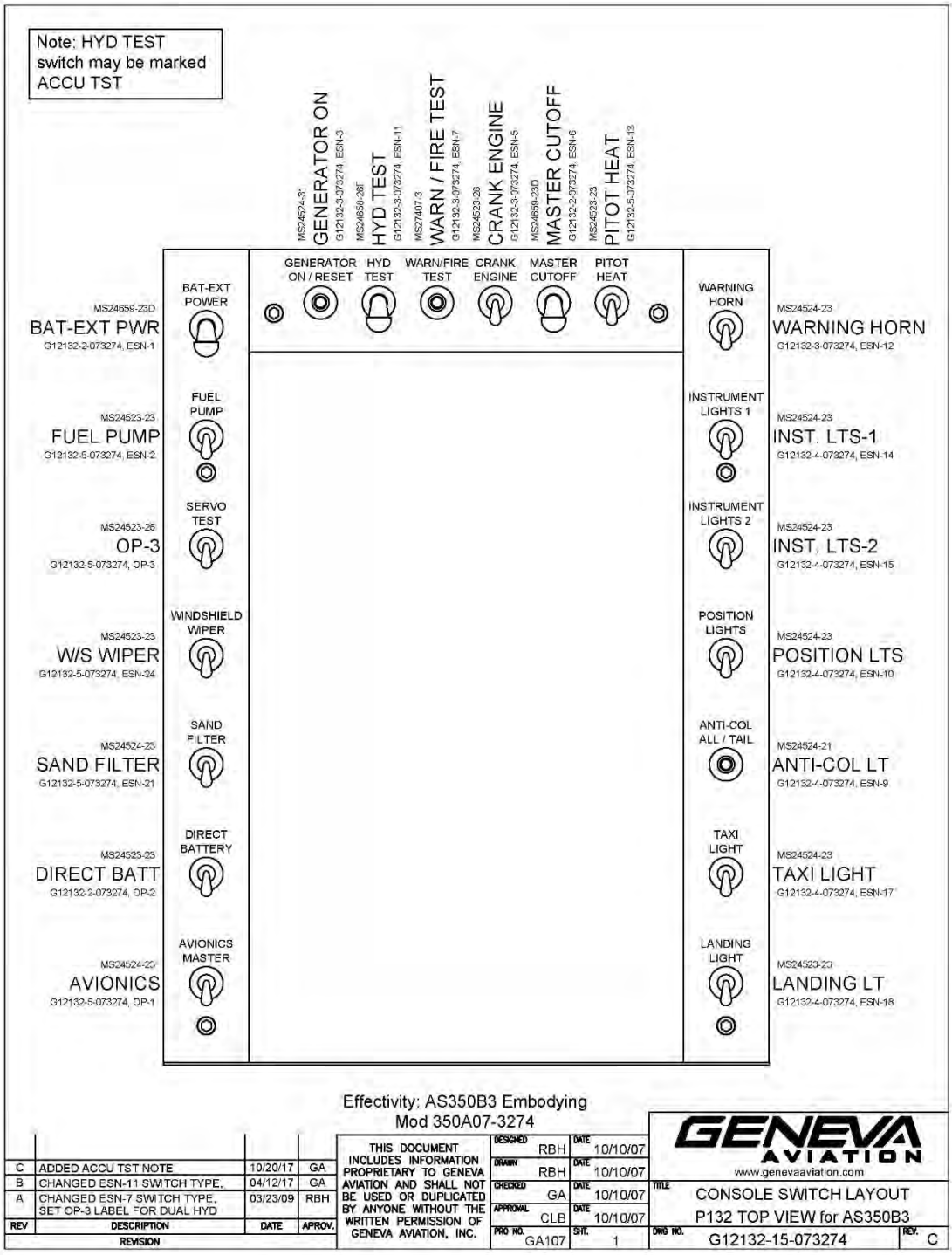

Figure 137: P132 Console Switch Layout (G12132-15-073274 Rev C)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

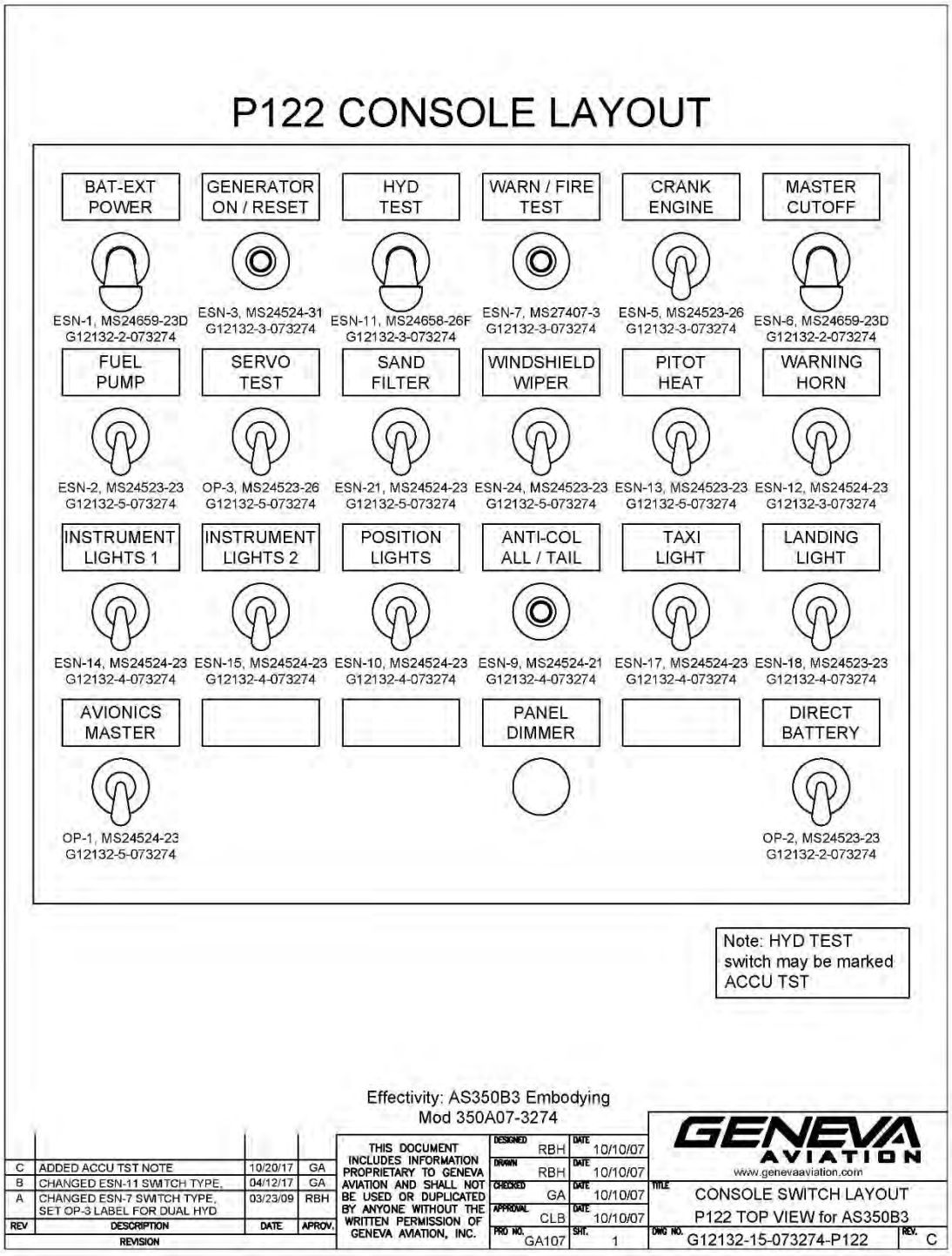

Figure 138: P122 Console Switch Layout (G12132-15-073274-P122 Rev C)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

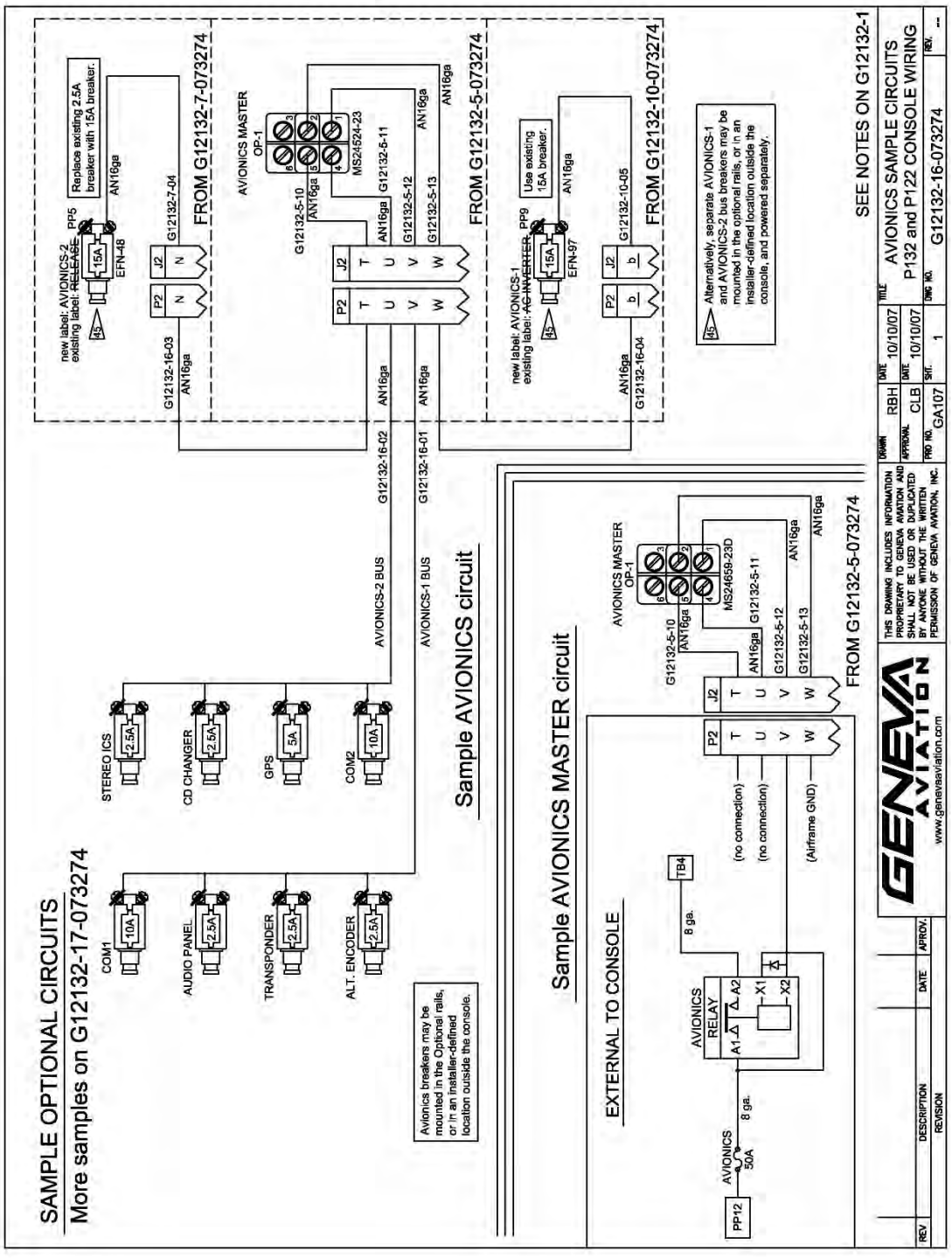

Figure 139: Console Avionics Sample Circuit (G12132-16-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

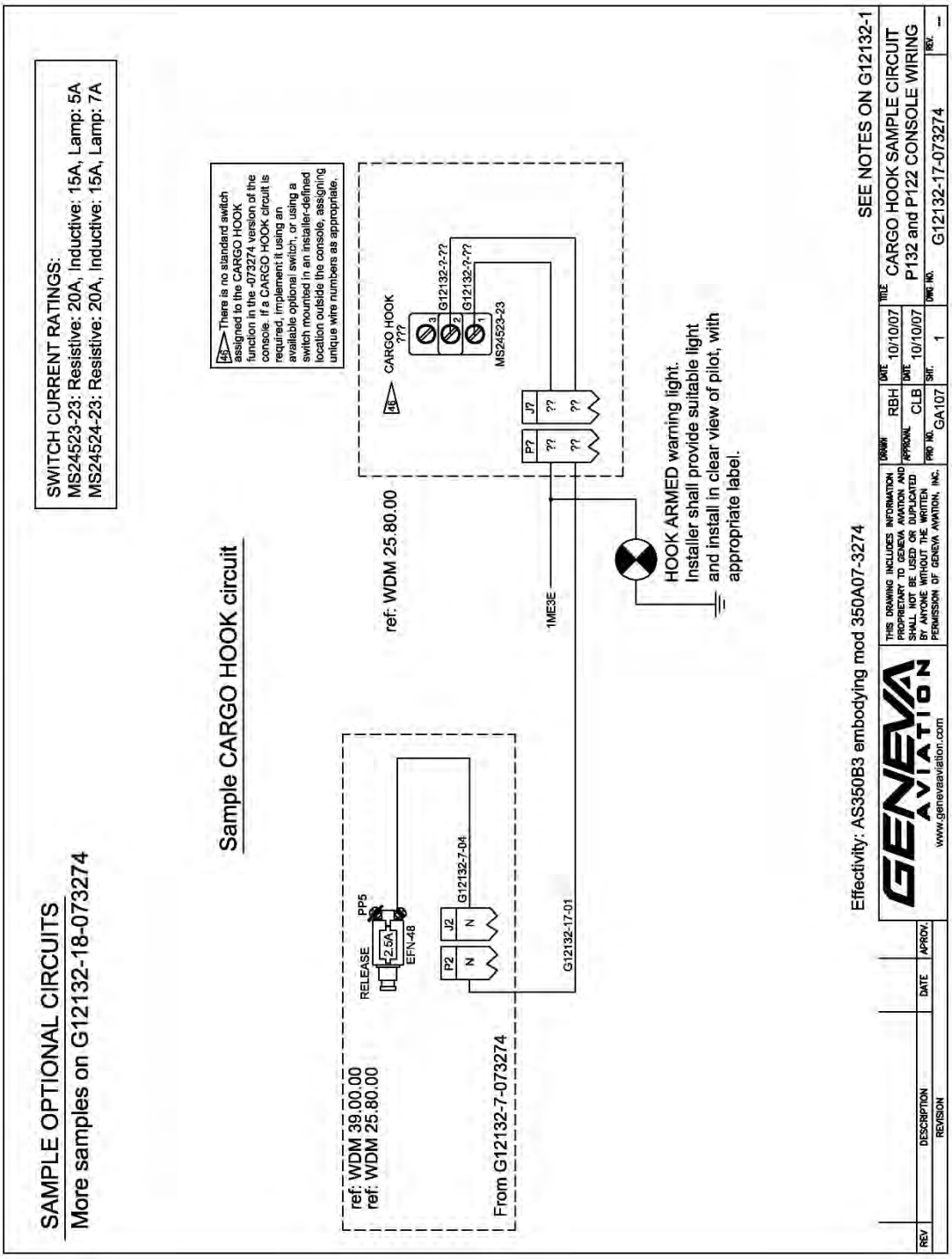

Figure 140: Cargo Hook Sample Circuit (G12132-17-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

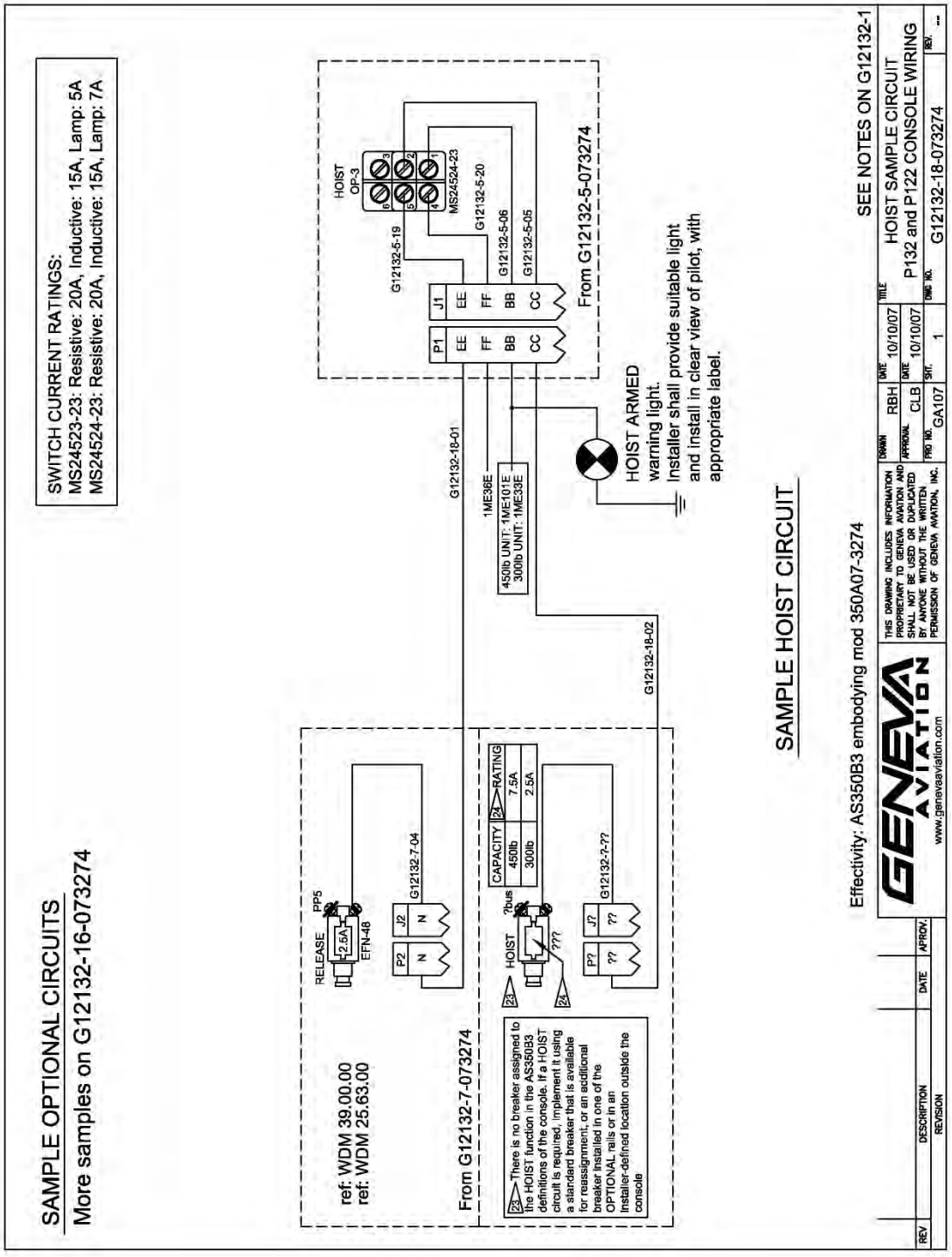

Figure 141: Hoist Sample Circuit (G12132-18-073274 Rev --)
Effectivity: AS350-B3 AIRCRAFT POST MOD 350A07-3274.

6.9 Wiring Diagrams Post-MOD AS350A07-3368

6.9.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B2 aircraft Post Mod 350A07-3368.

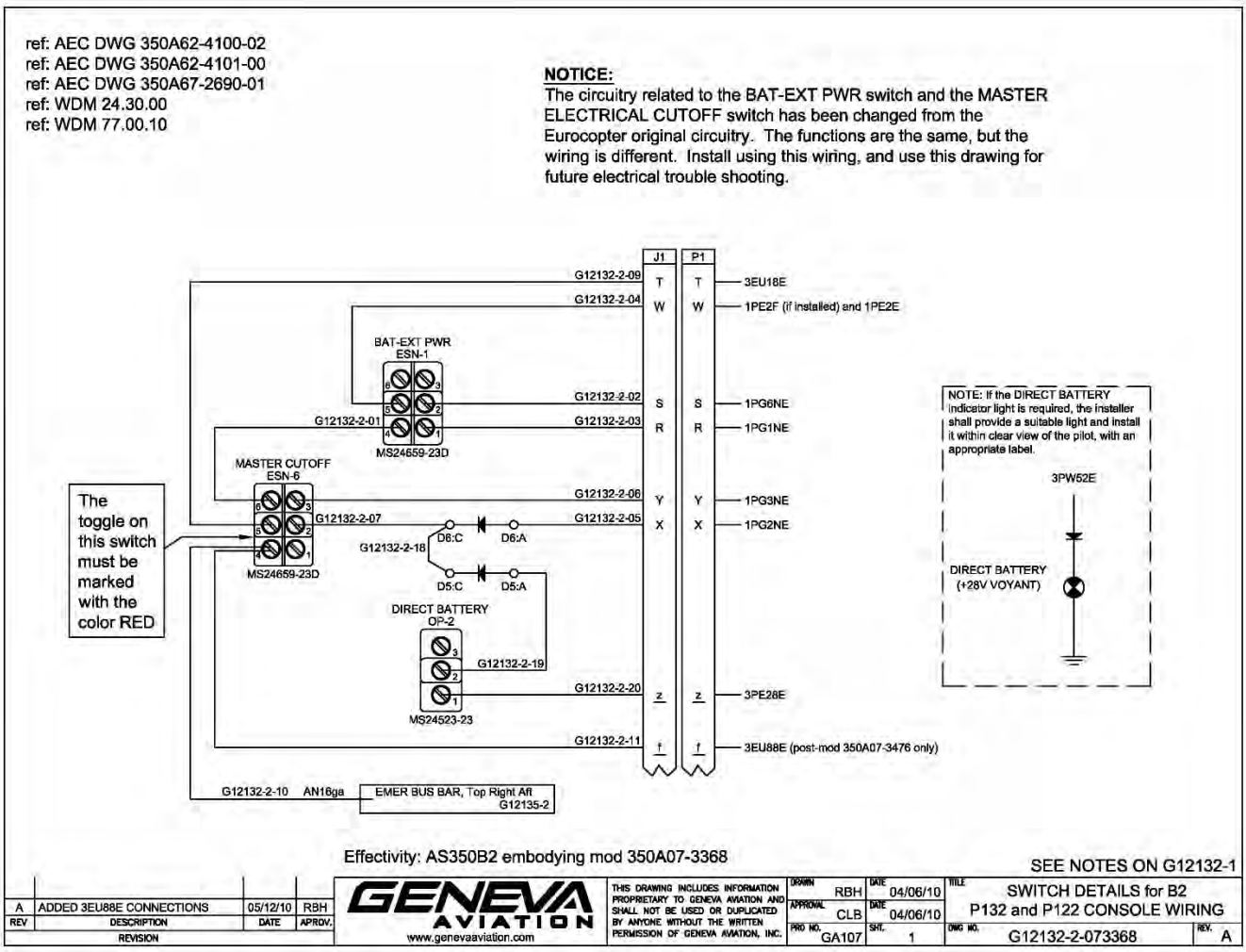

Figure 142: Switch Details (G12132-2-073368 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

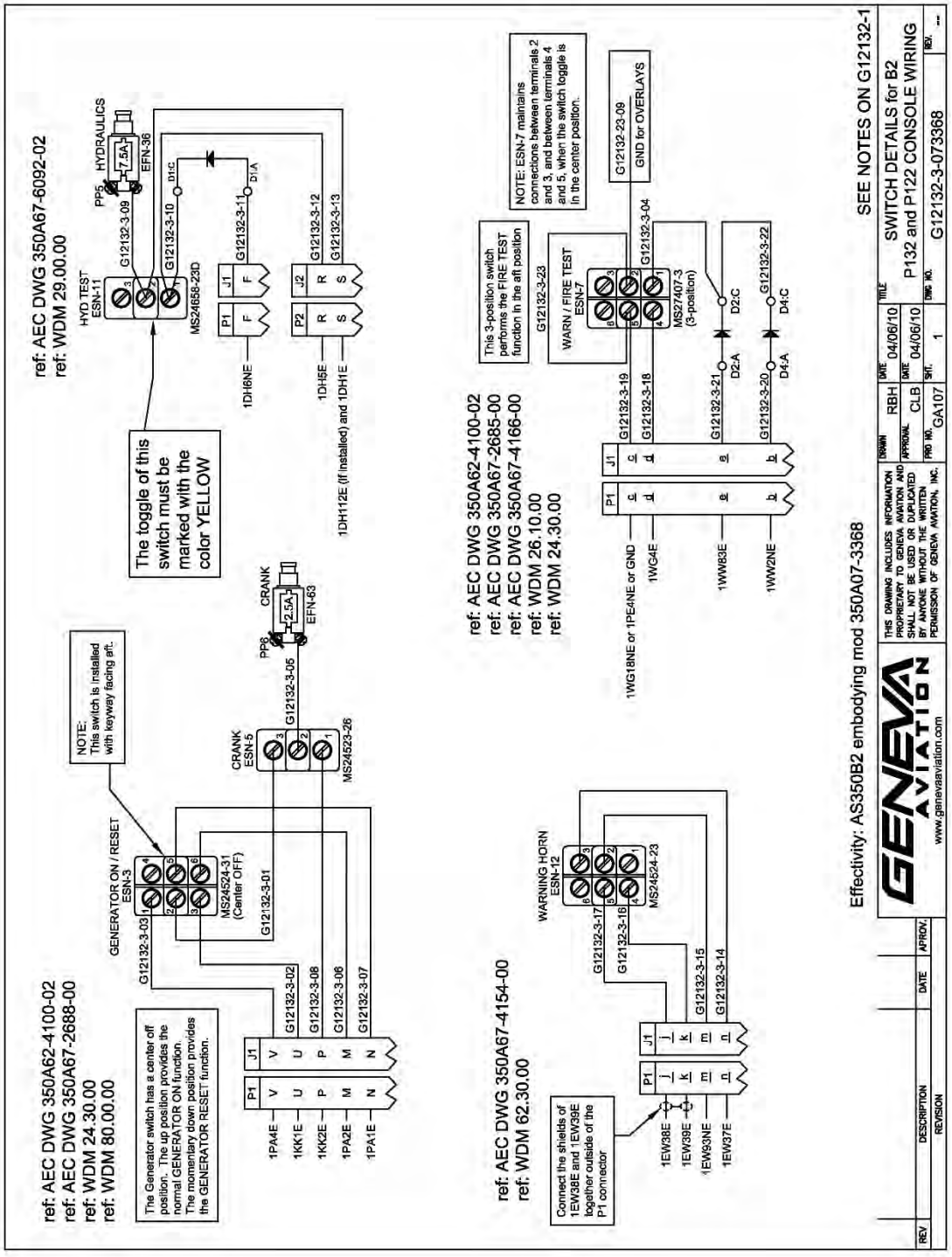

Figure 143: Switch Details (G12132-3-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

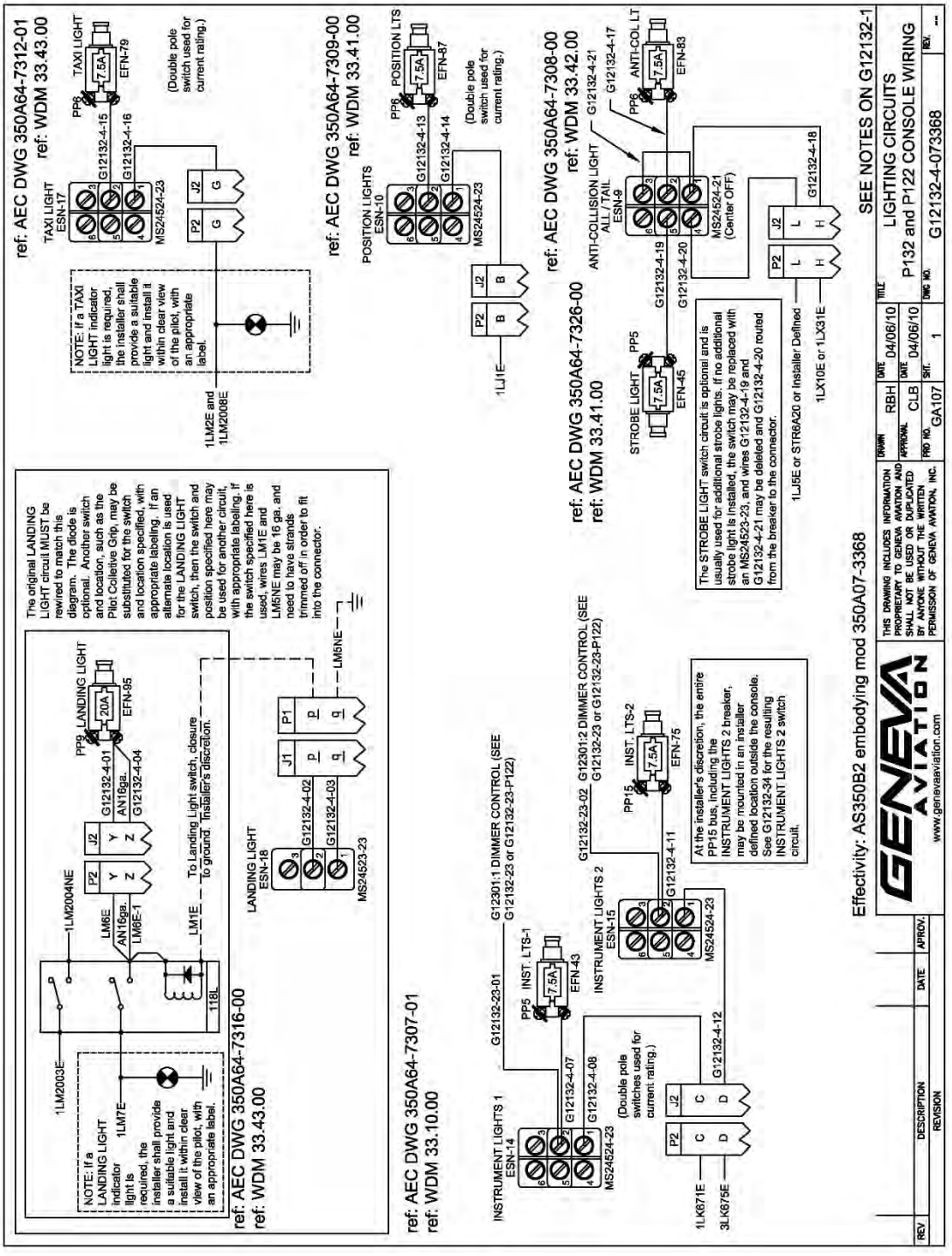

Figure 144: Lighting Circuits (G12132-4-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

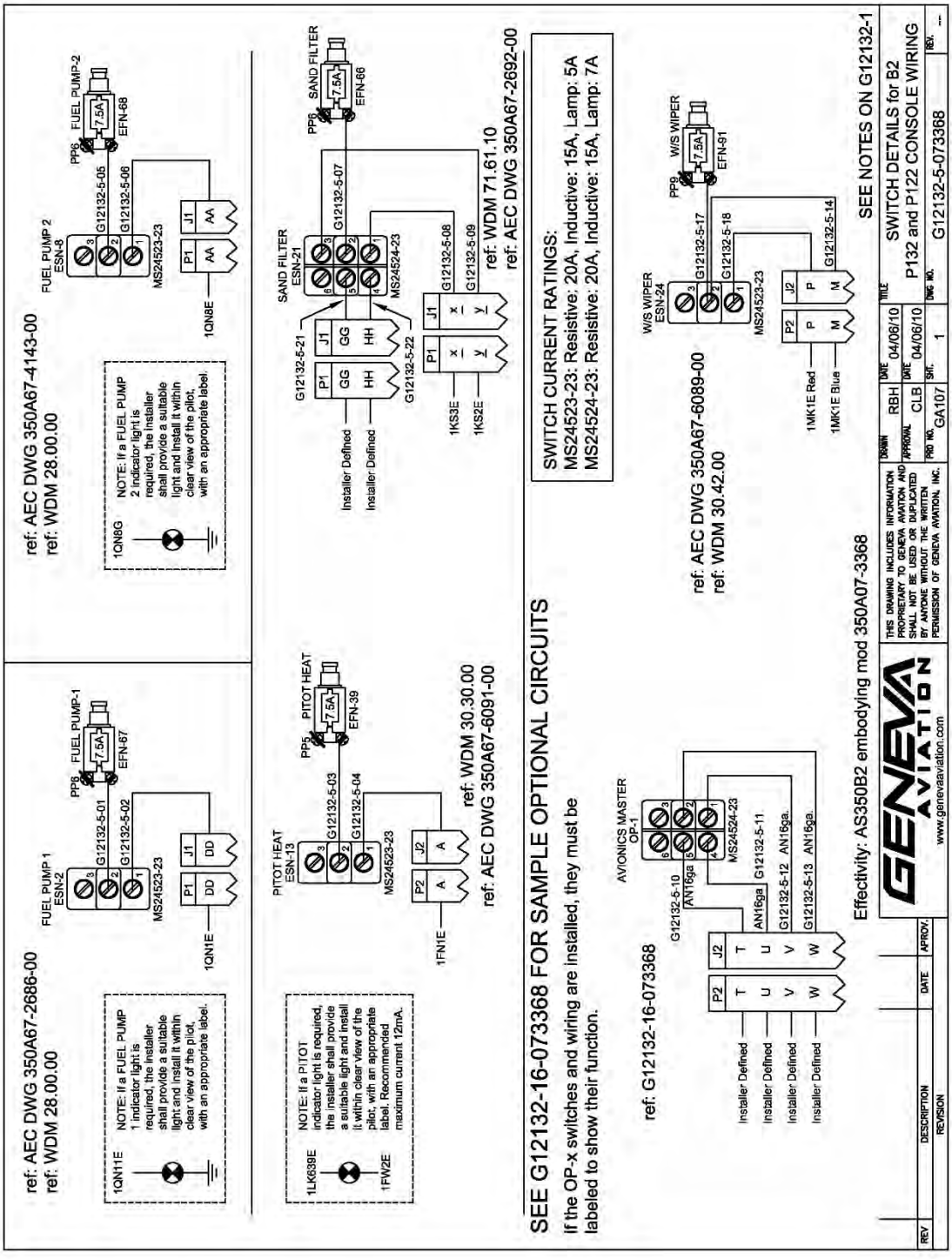

Figure 145: Switch Details (G12132-5-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

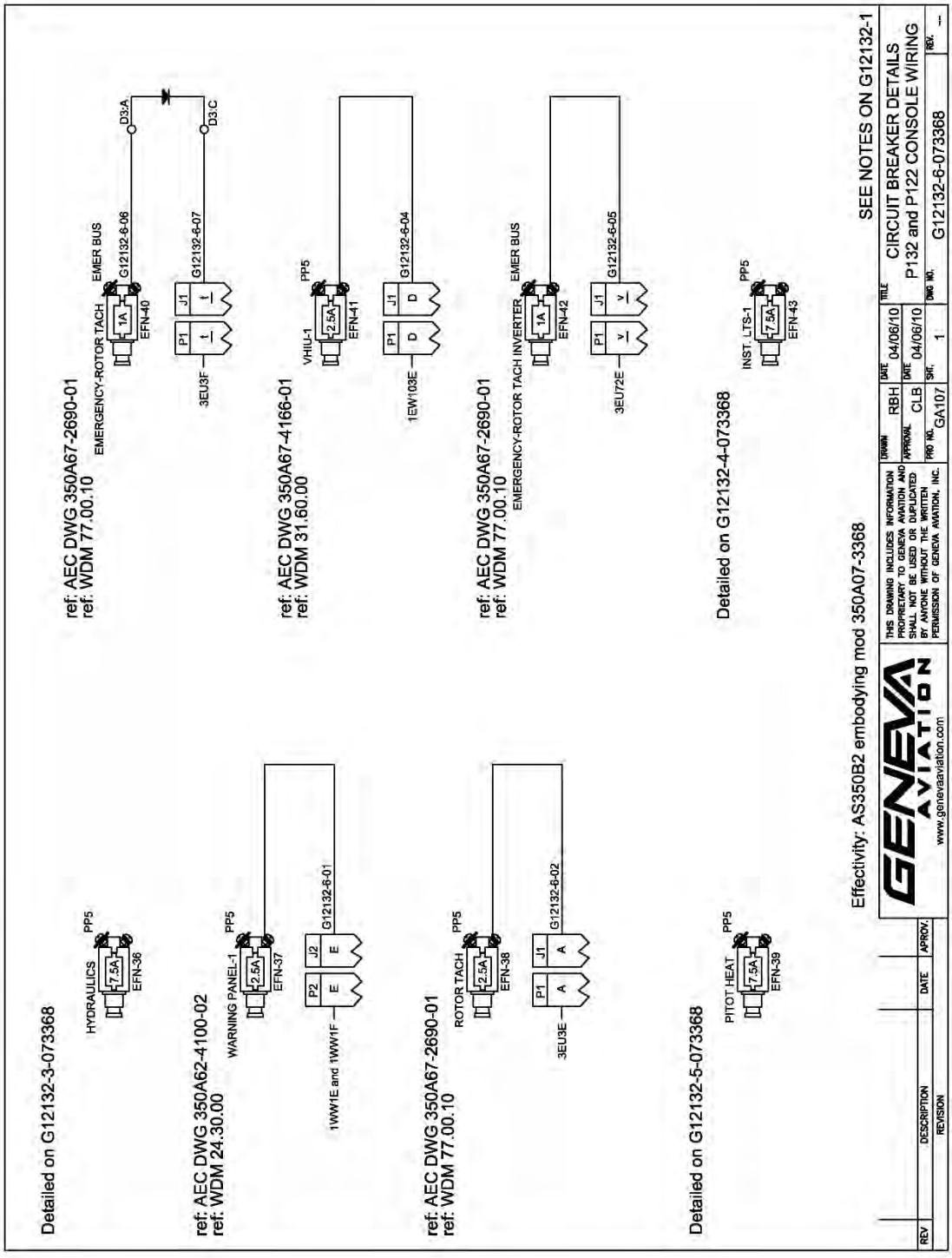

Figure 146: Circuit Breaker Details (G12132-6-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

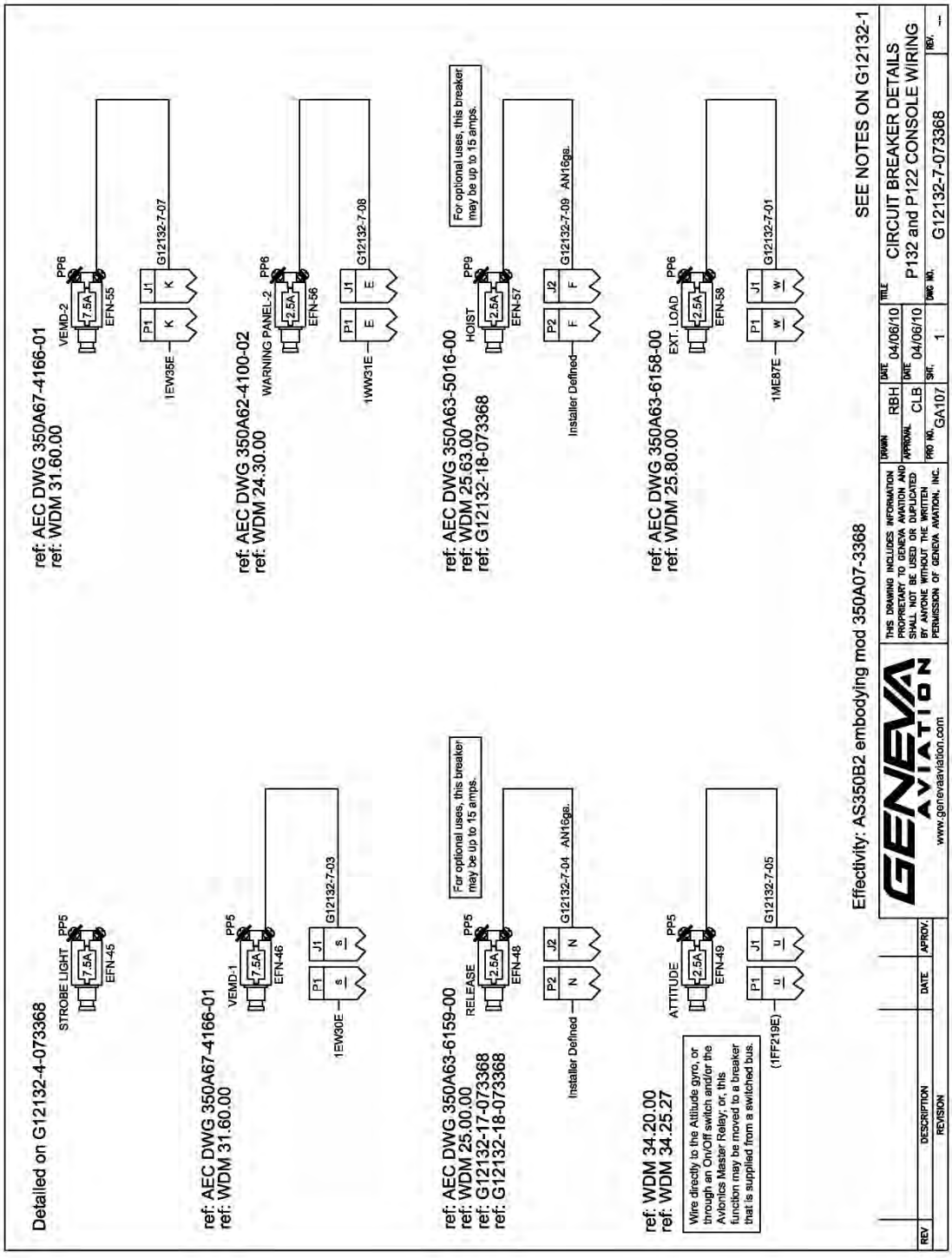

Figure 147: Circuit Breaker Details (G12132-7-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

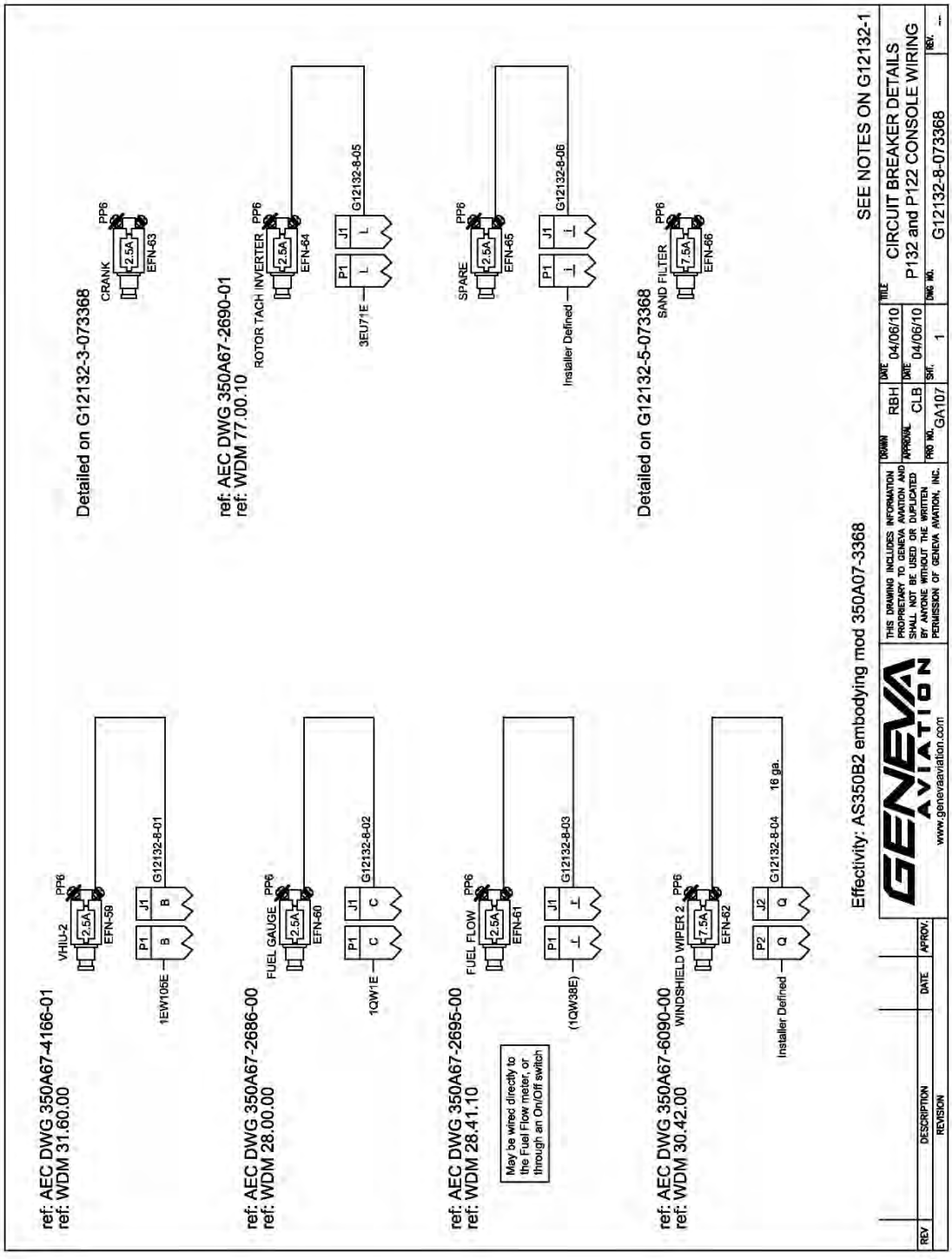

Figure 148: Circuit Breaker Details (G12132-8-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

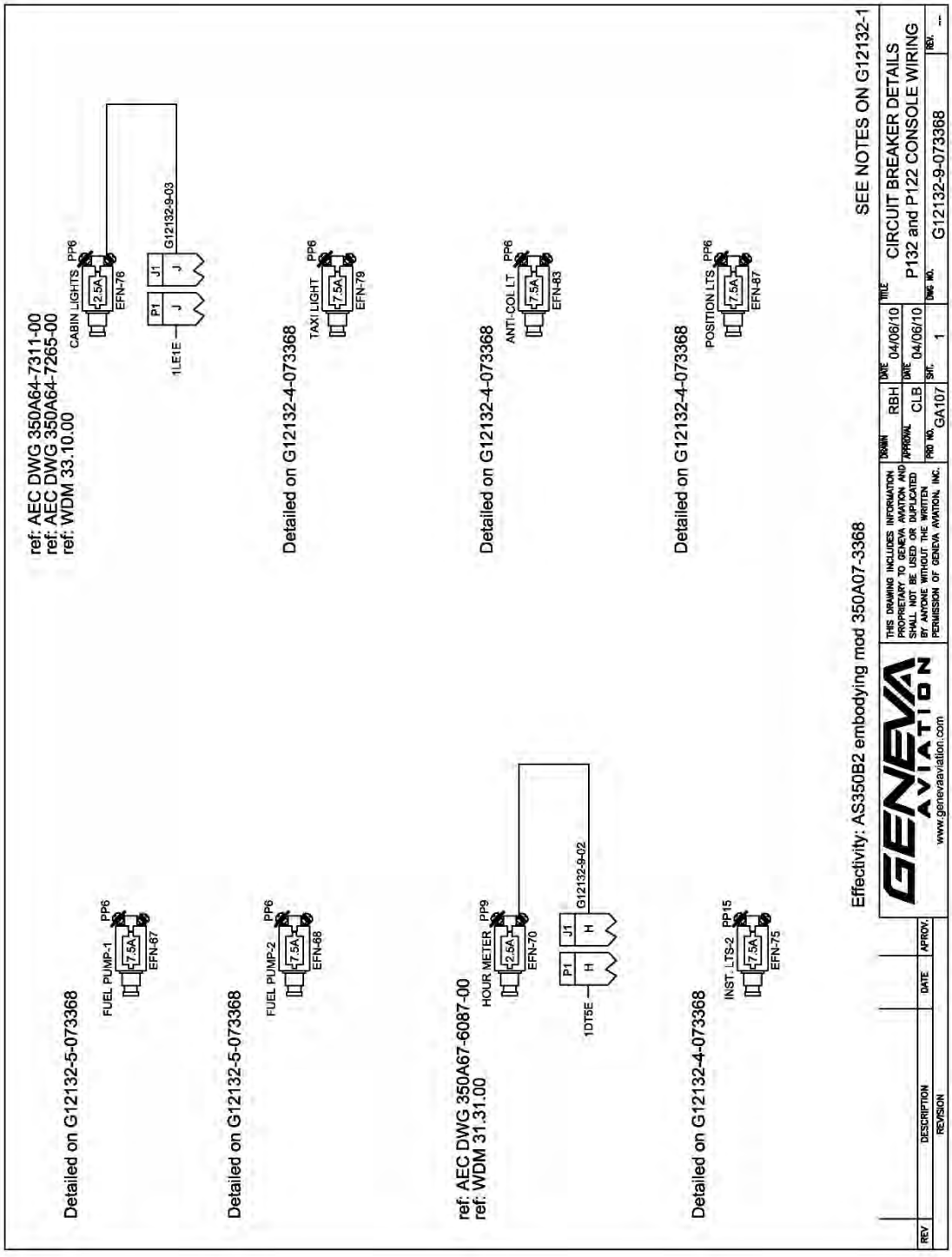

Figure 149: Circuit Breaker Details (G12132-9-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

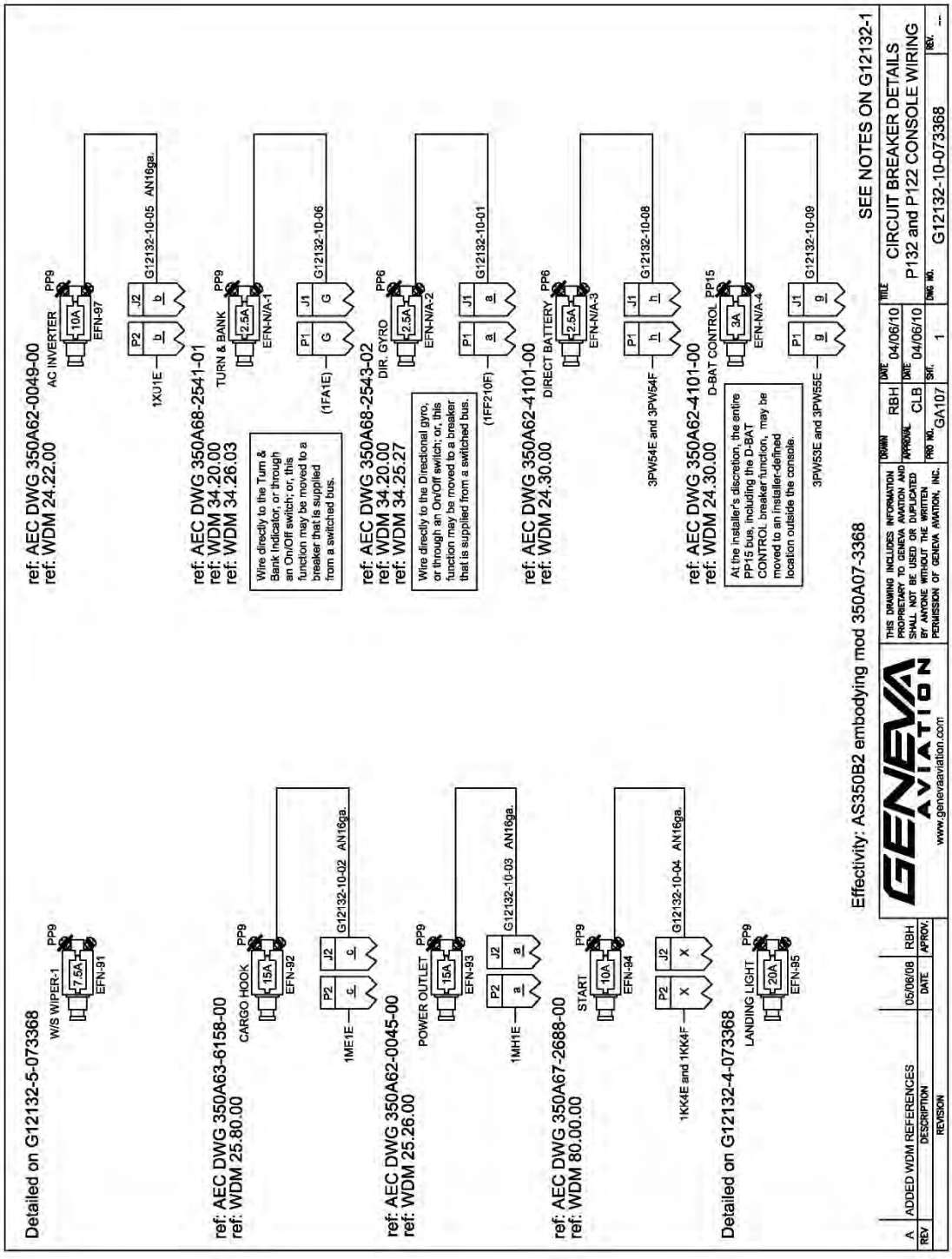

Figure 150: Circuit Breaker Details (G12132-10-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

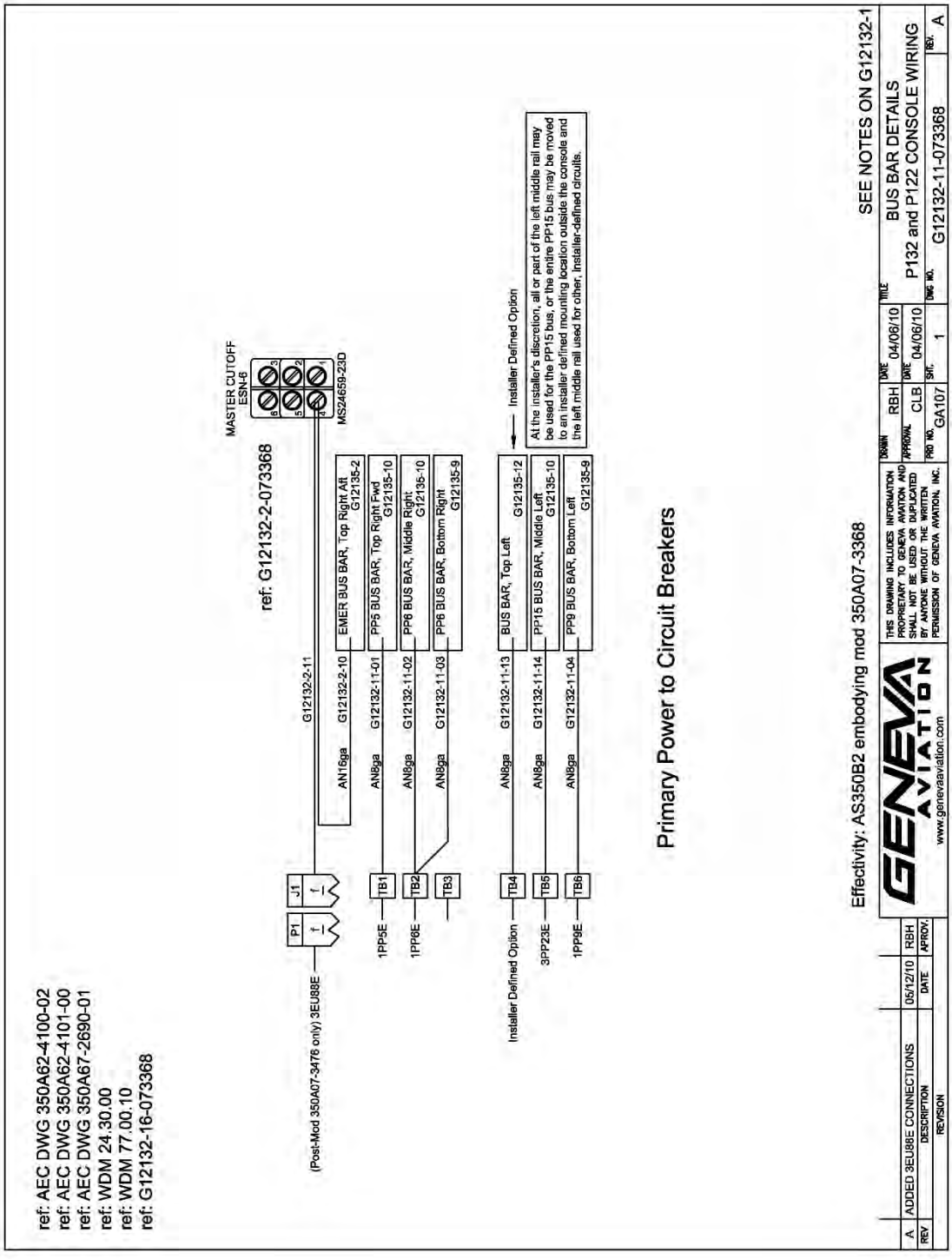

Figure 151: Bus Bar Details (G12132-11-073368 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

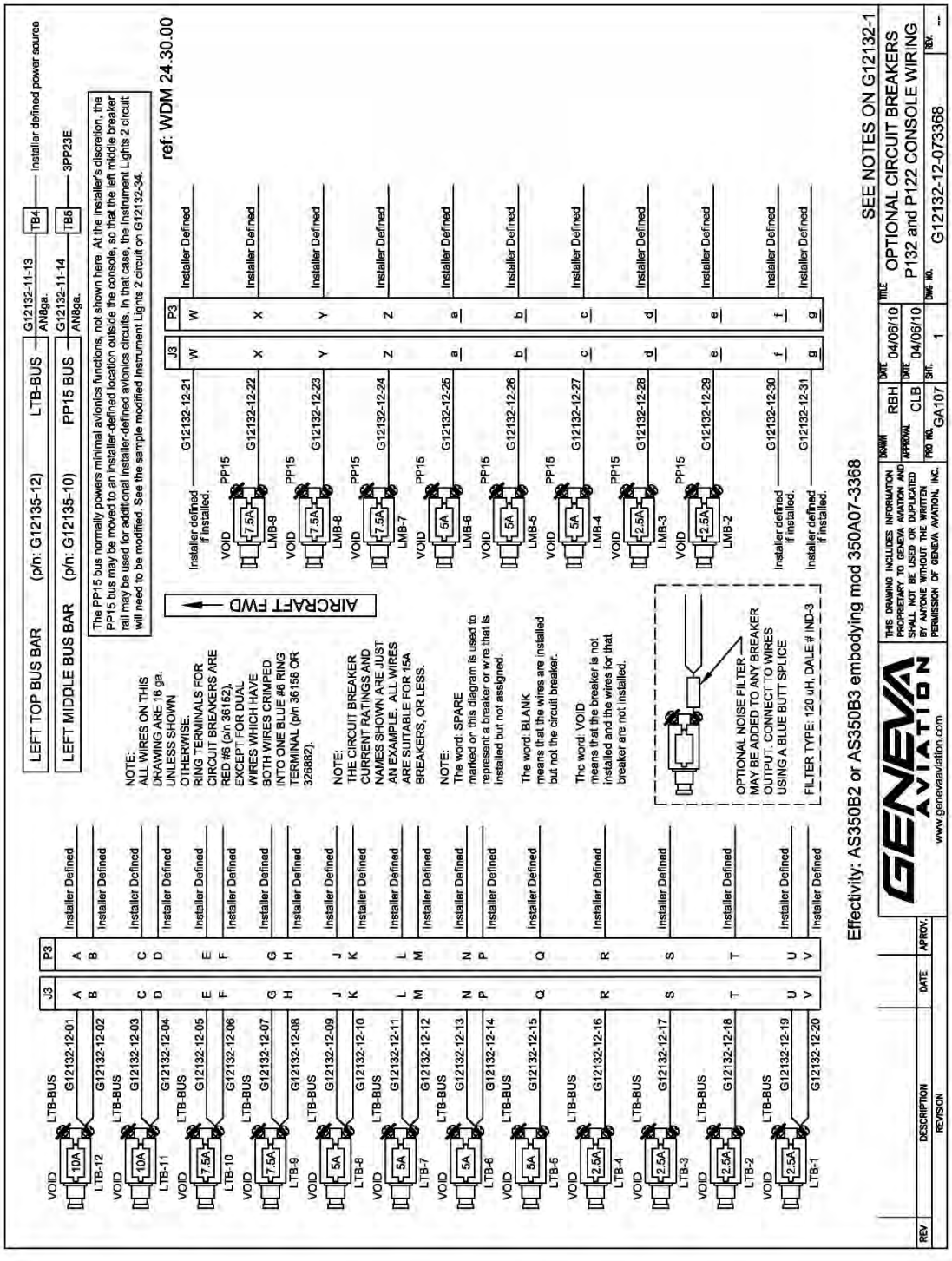

Figure 152: Optional Circuit Breakers (G12132-12-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

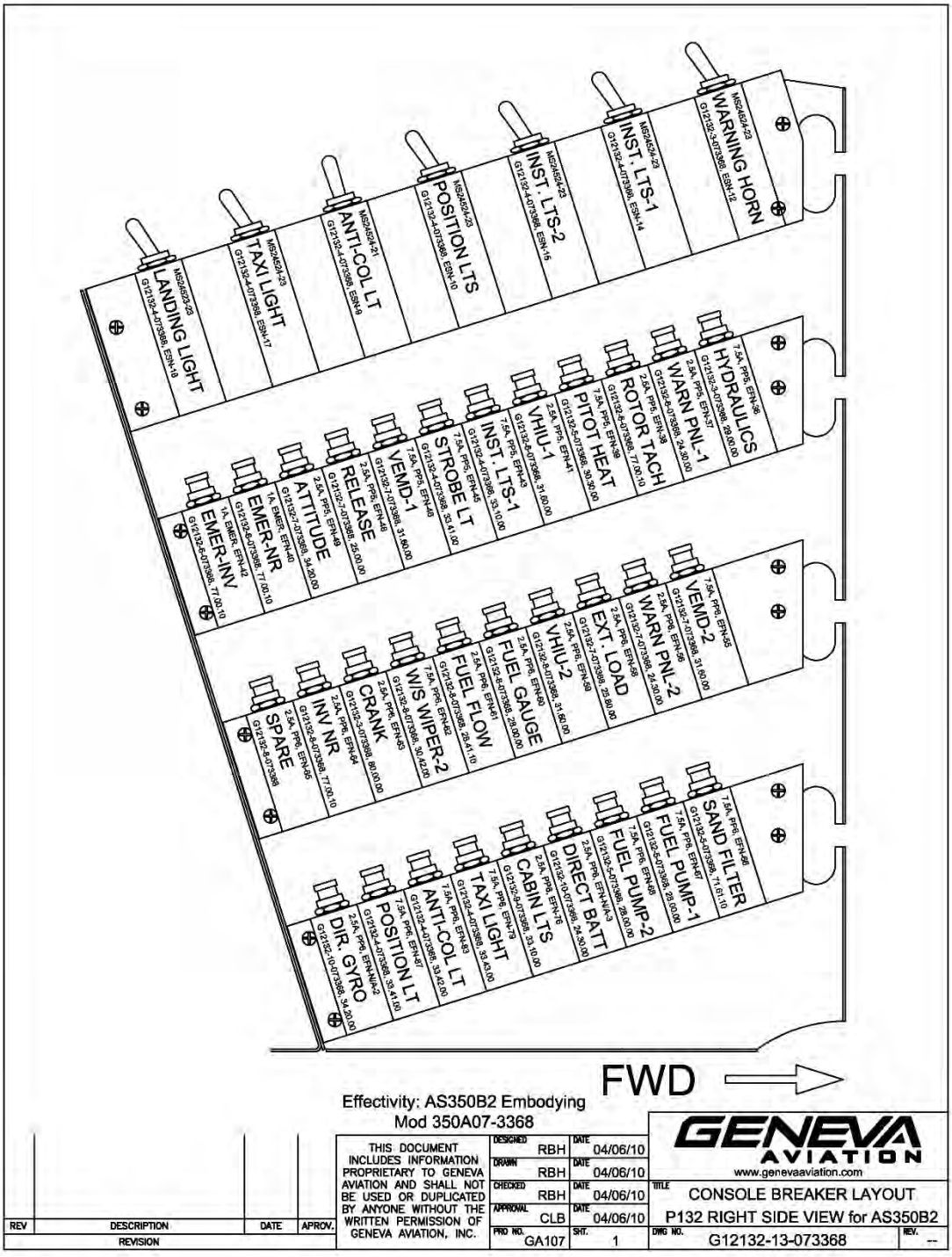

Figure 153: P132 Console RH Side CB Layout (G12132-13-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368 AND PRE MOD 350A07-3257.

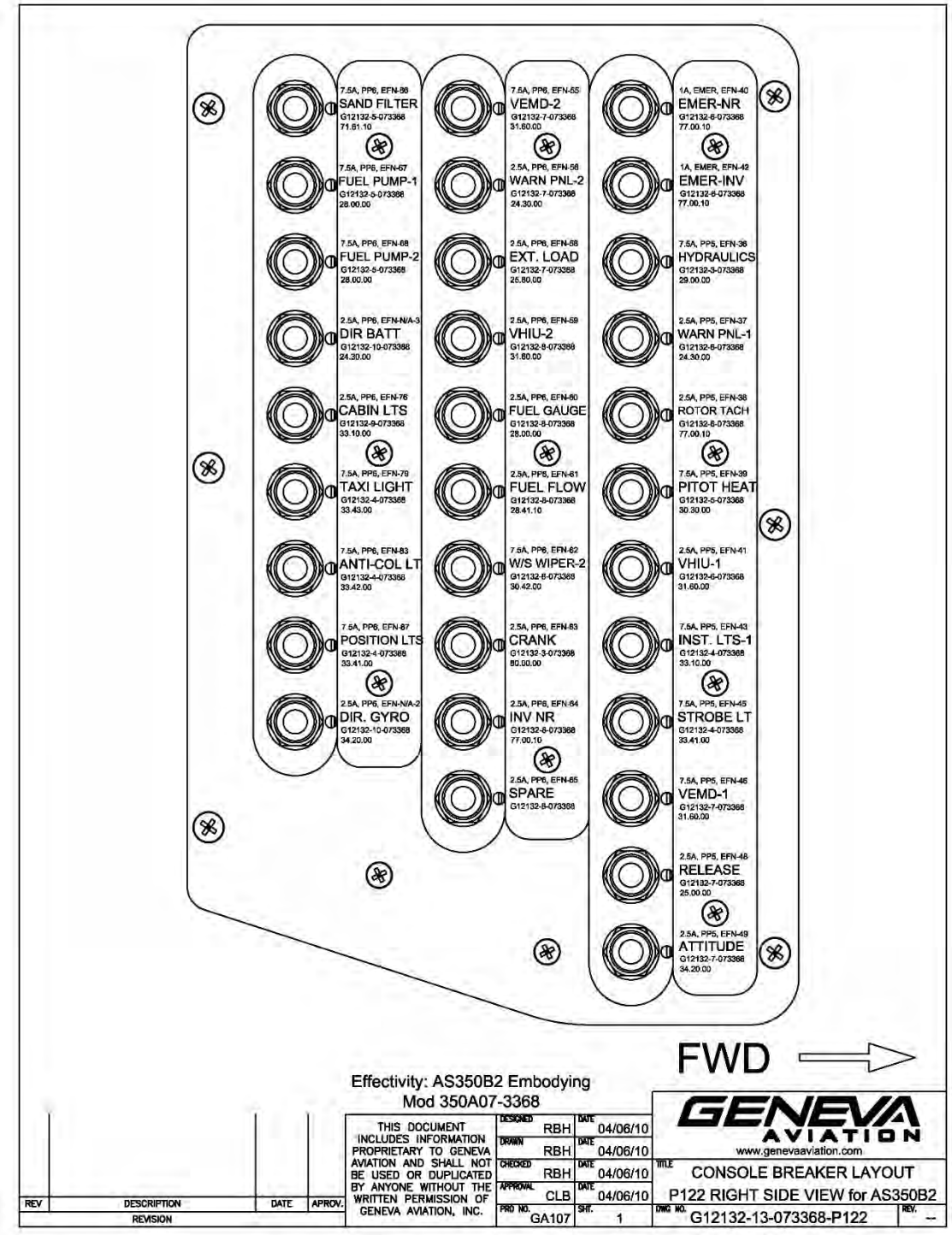

Figure 154: P122 Console RH Side CB Layout (G12132-13-073368-P122 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368 AND PRE MOD 350A07-3257.

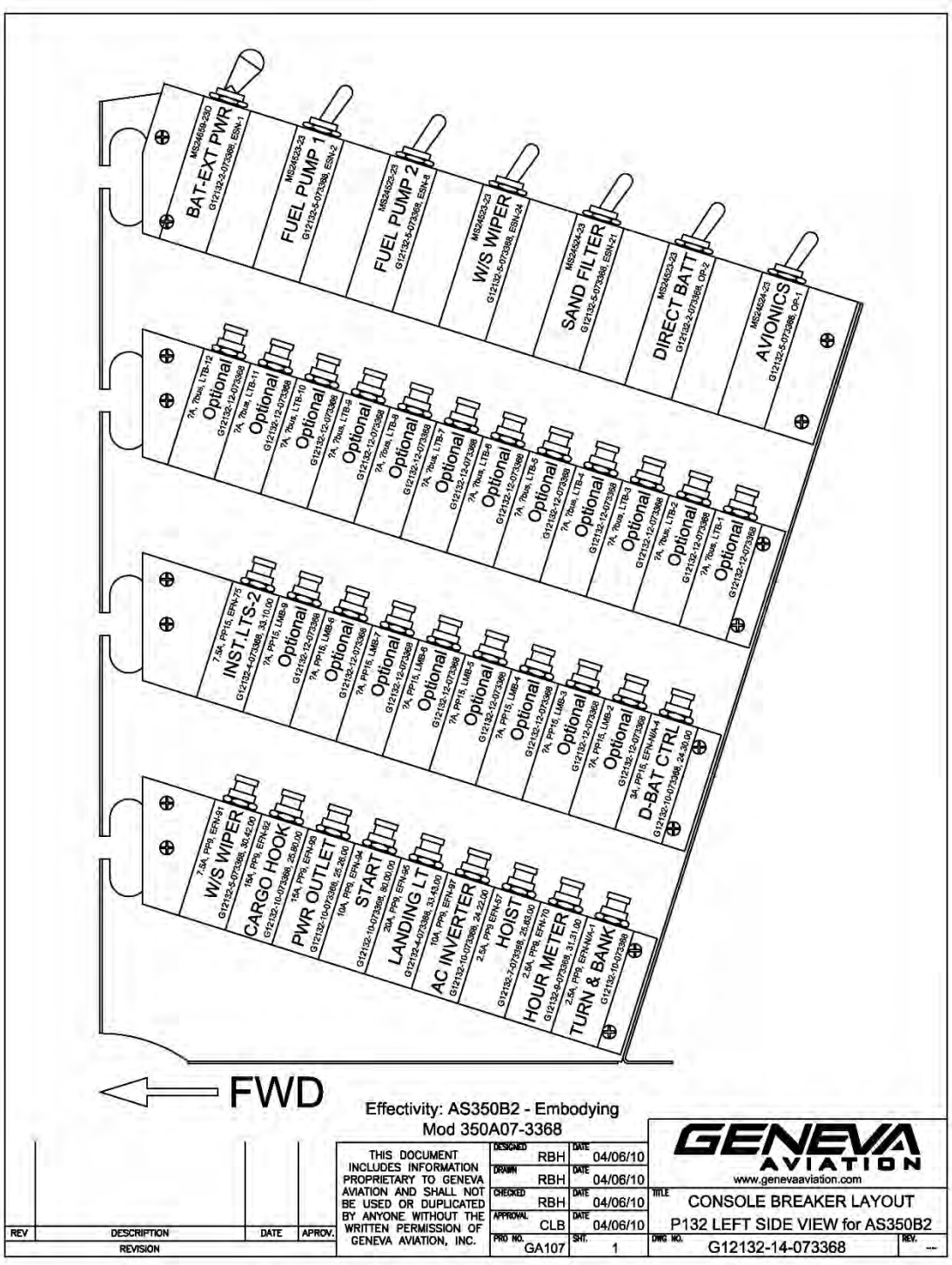

Figure 155: P132 Console LH Side CB Layout (G12132-14-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

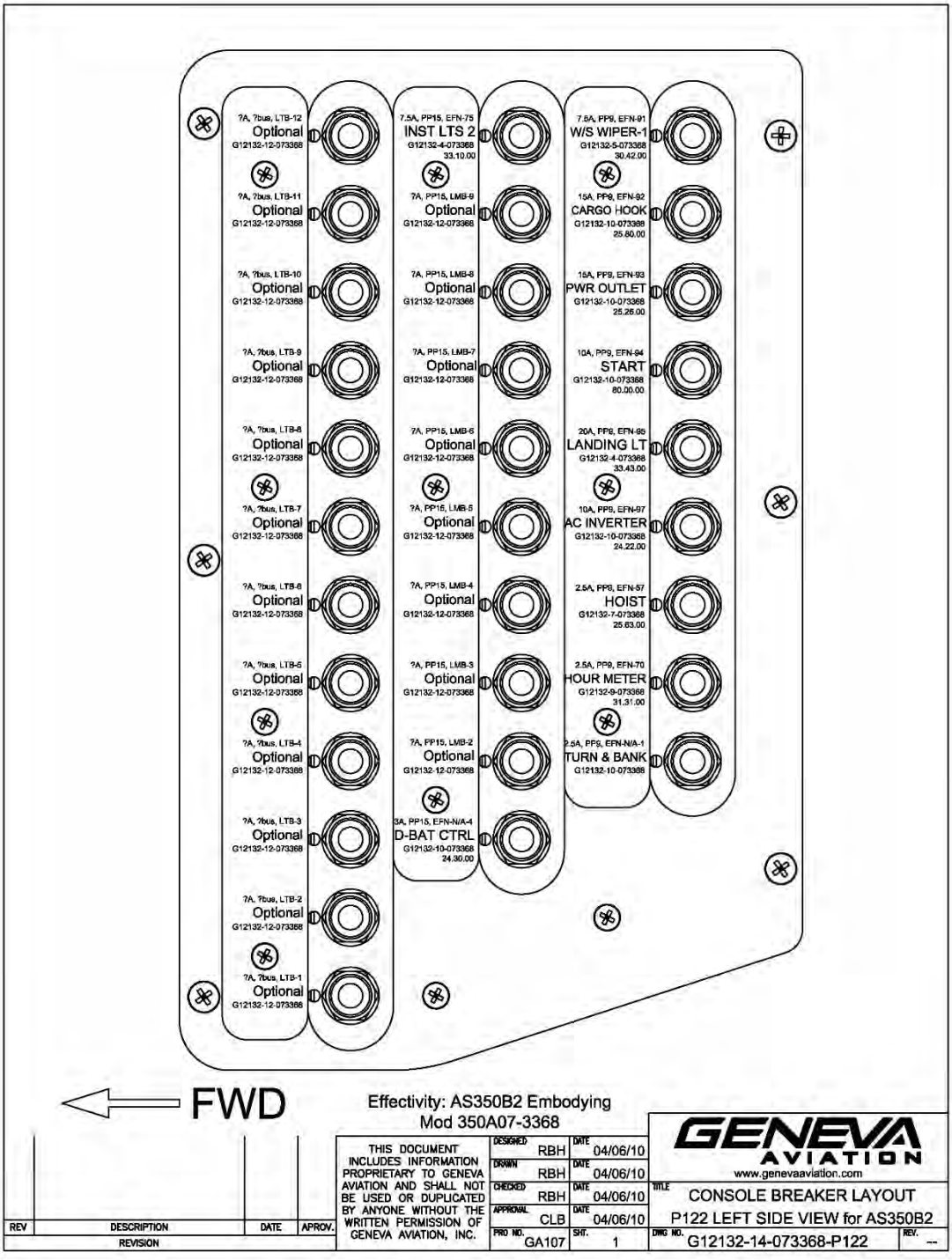

Figure 156: P132 Console LH Side CB Layout (G12132-14-073368-P122 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

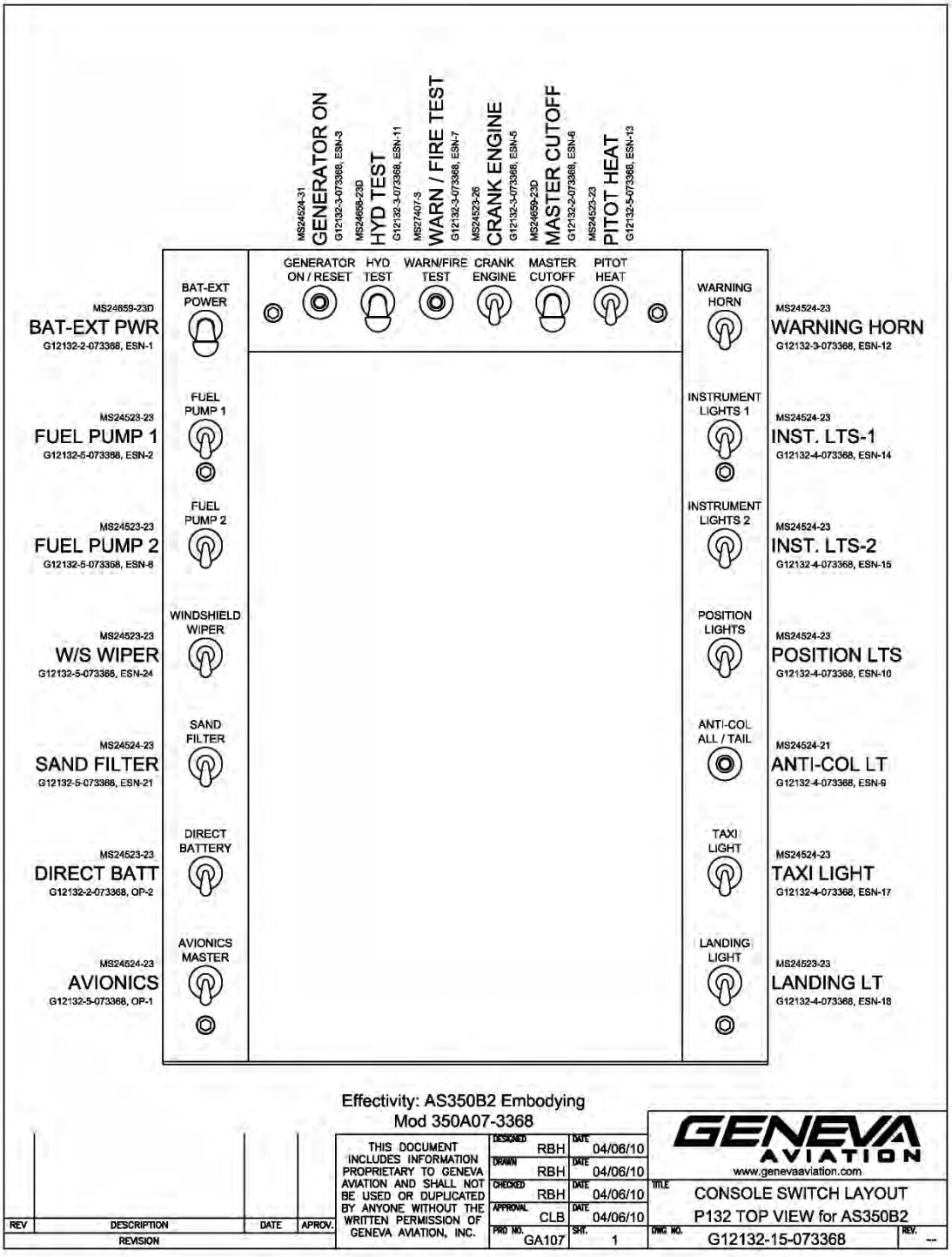

Figure 157: P132 Console Switch Layout (G12132-15-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

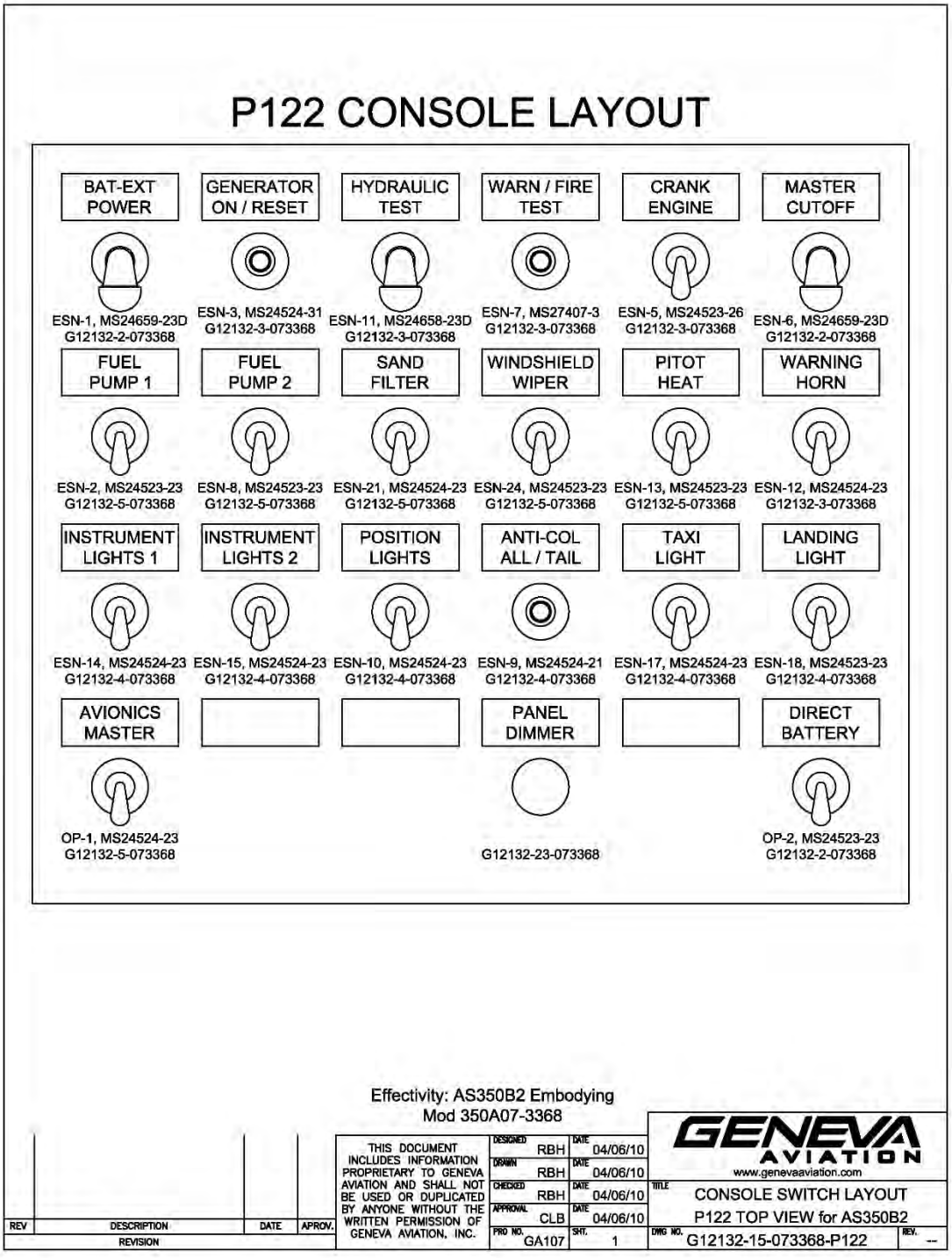

Figure 158: P122 Console Switch Layout (G12132-15-073368-P122 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

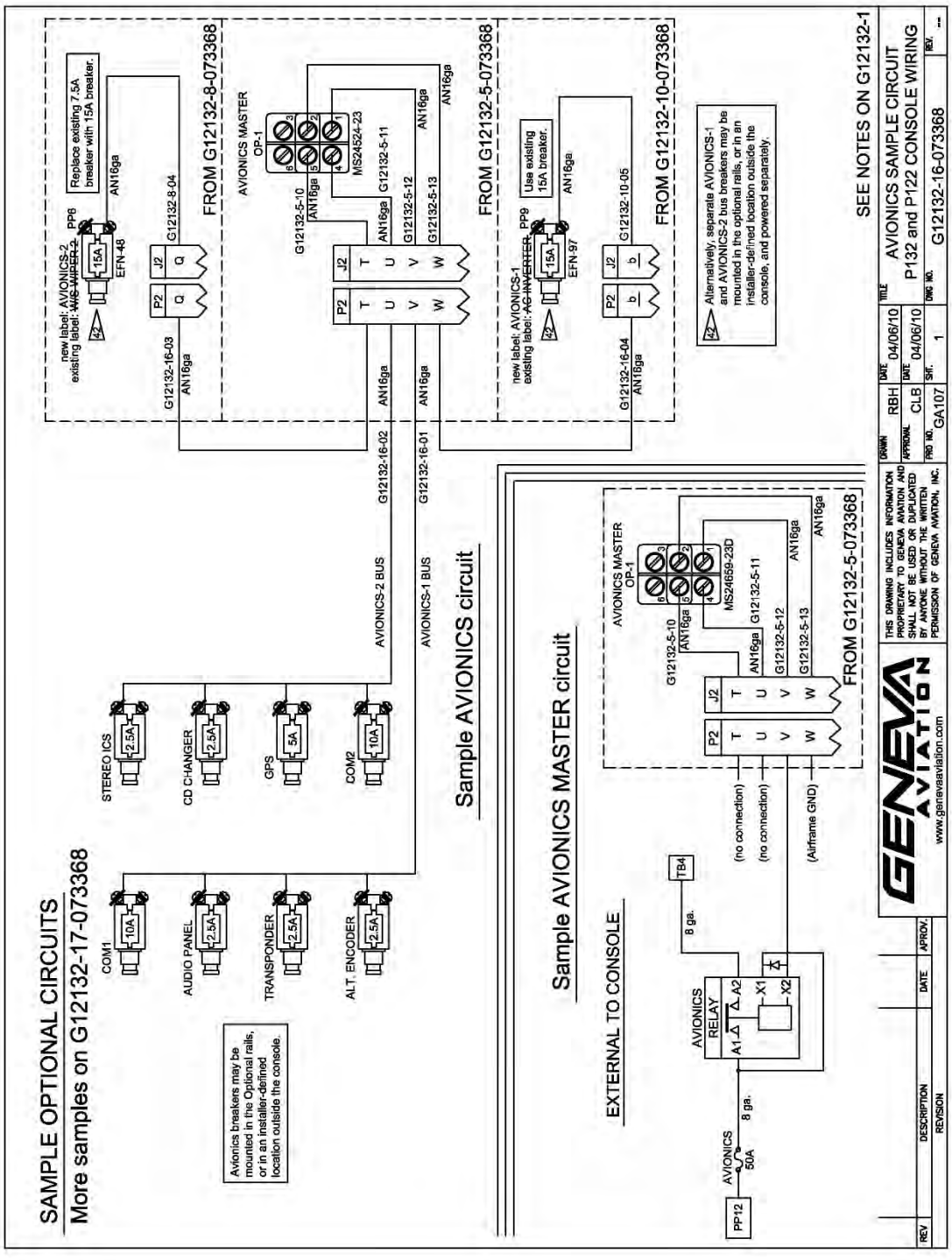

Figure 159: Console Avionics Sample Circuit (G12132-16-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

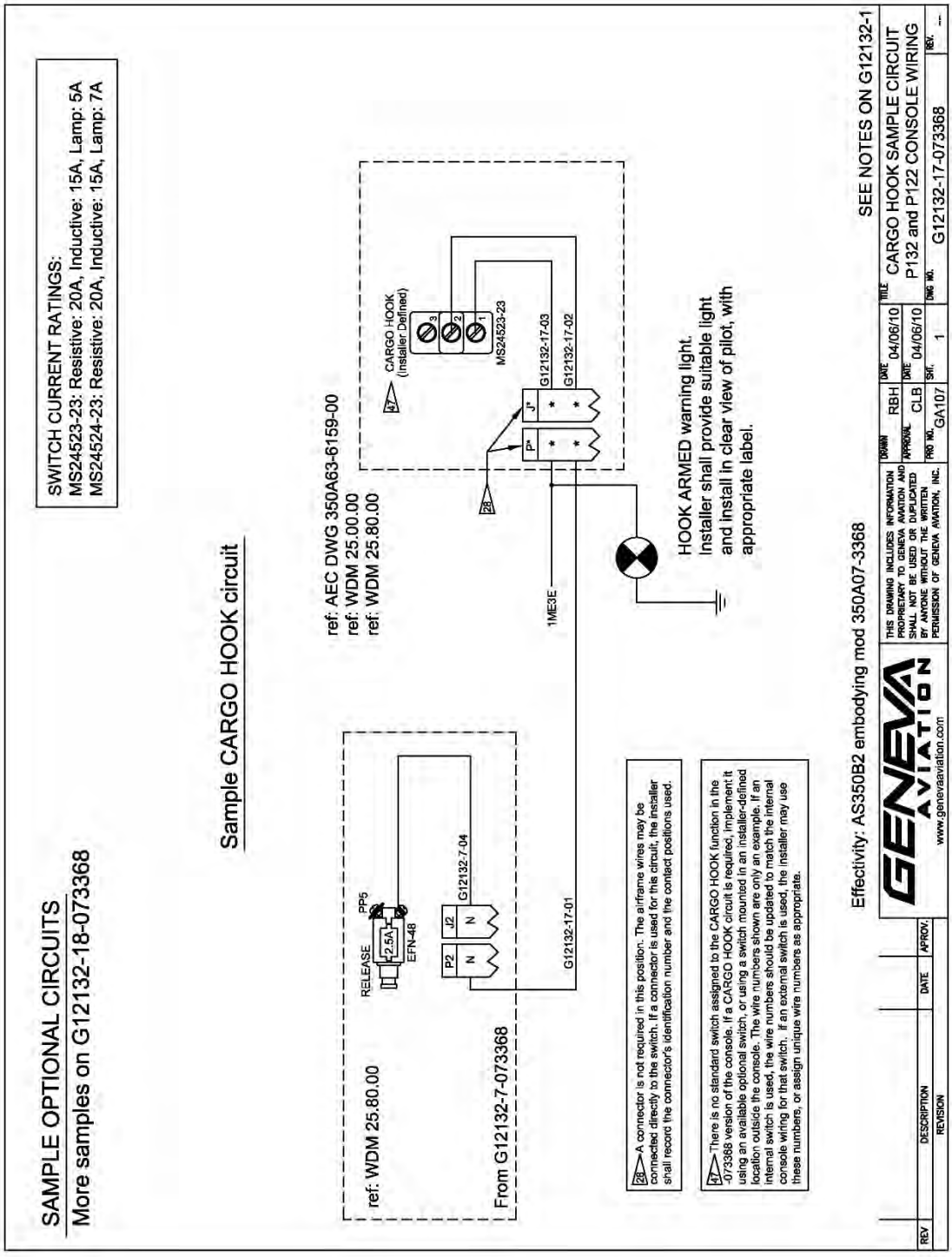

Figure 160: Cargo Hook Sample Circuit (G12132-17-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

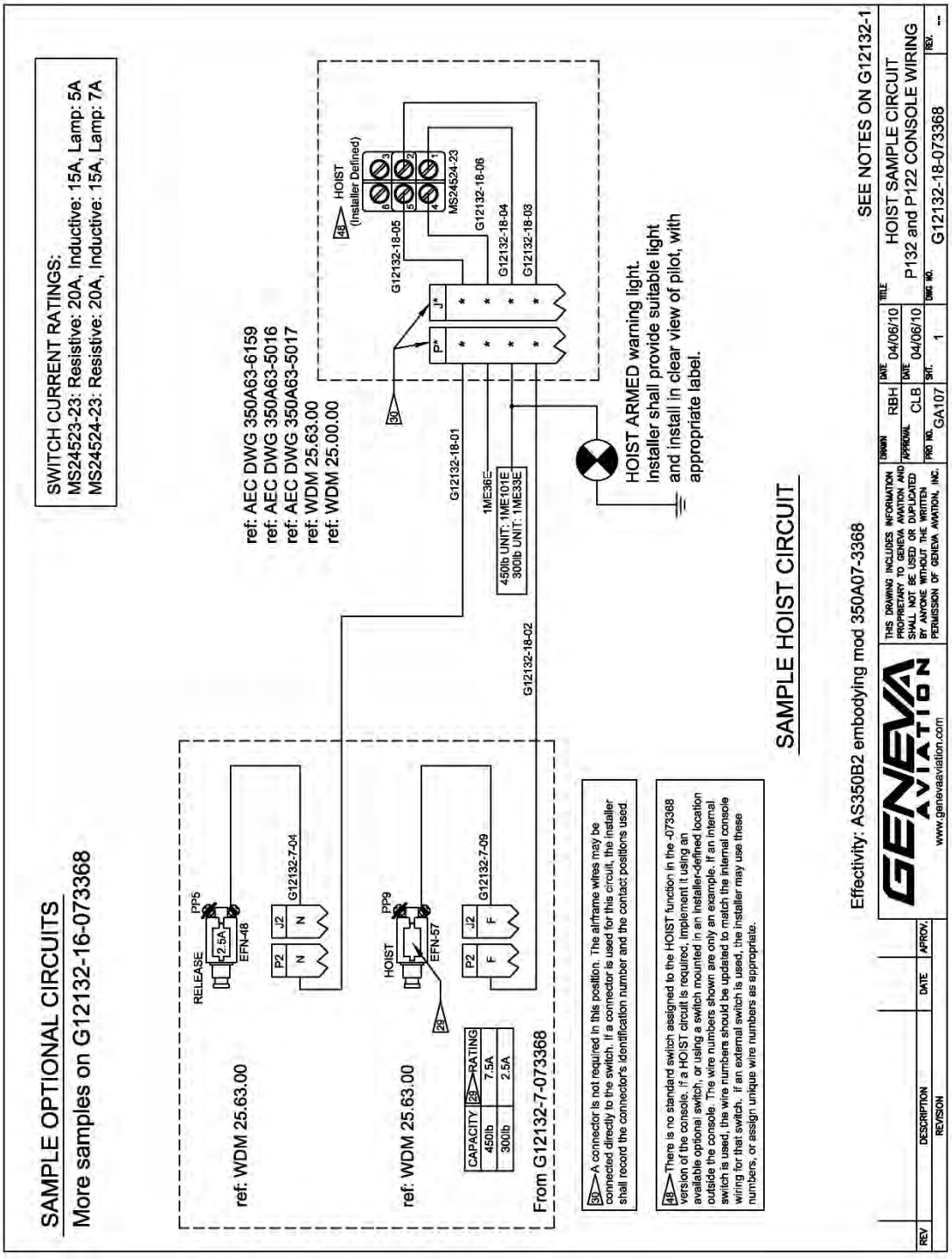

Figure 161: Hoist Sample Circuit (G12132-18-073368 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-3368.

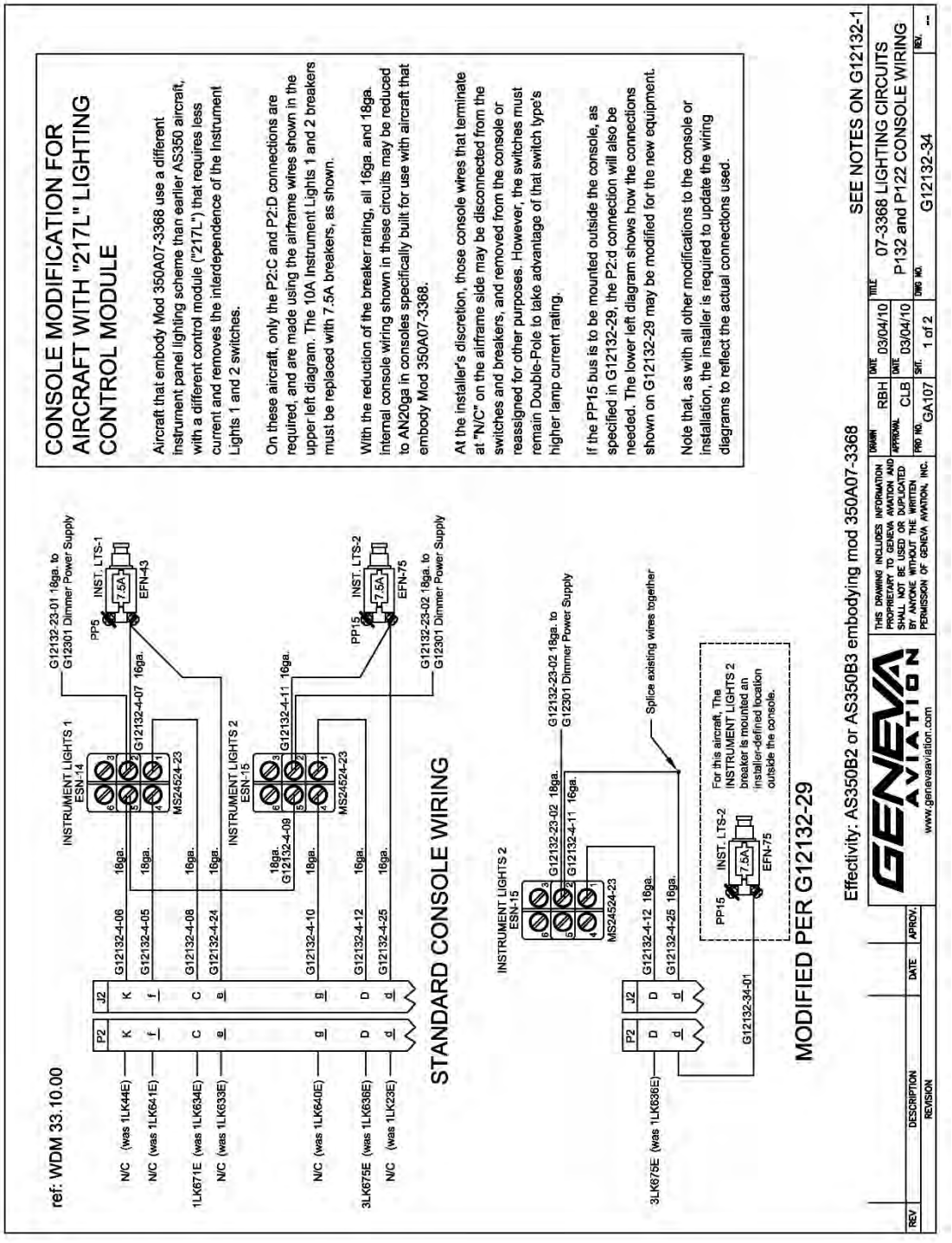

Figure 162: Lighting Circuits (G12132-34 SHT 1 Rev --)
Effectivity: AS350-B2 & B3 AIRCRAFT POST MOD 350A07-3368.

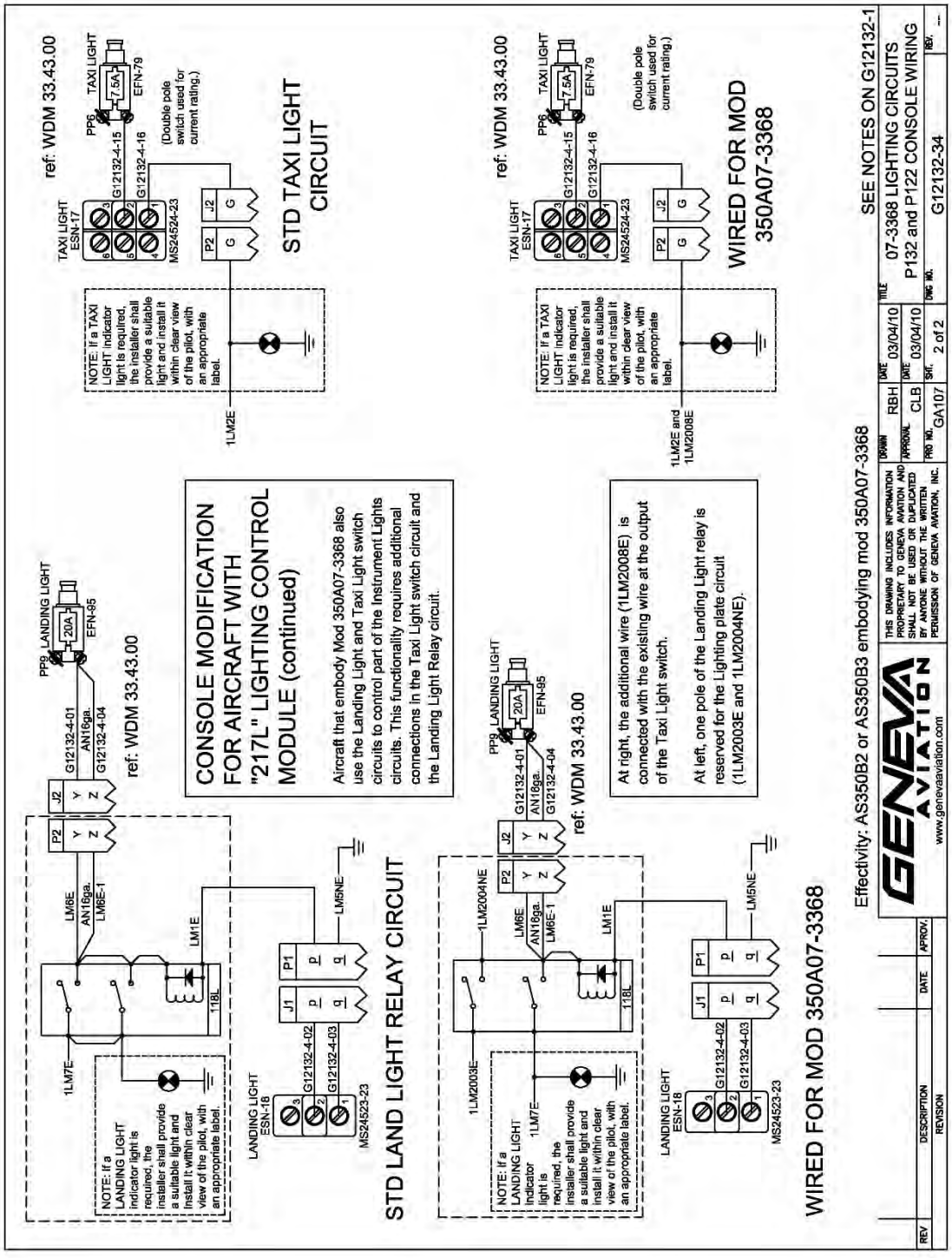

Figure 163: Lighting Circuits (G12132-34 SHT 2 Rev --)
Effectivity: AS350-B2 & B3 AIRCRAFT POST MOD 350A07-3368.

6.10 Wiring Diagrams Post-MOD AS350A07-3476

6.10.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B3e aircraft Post Mod 350A07-3476.

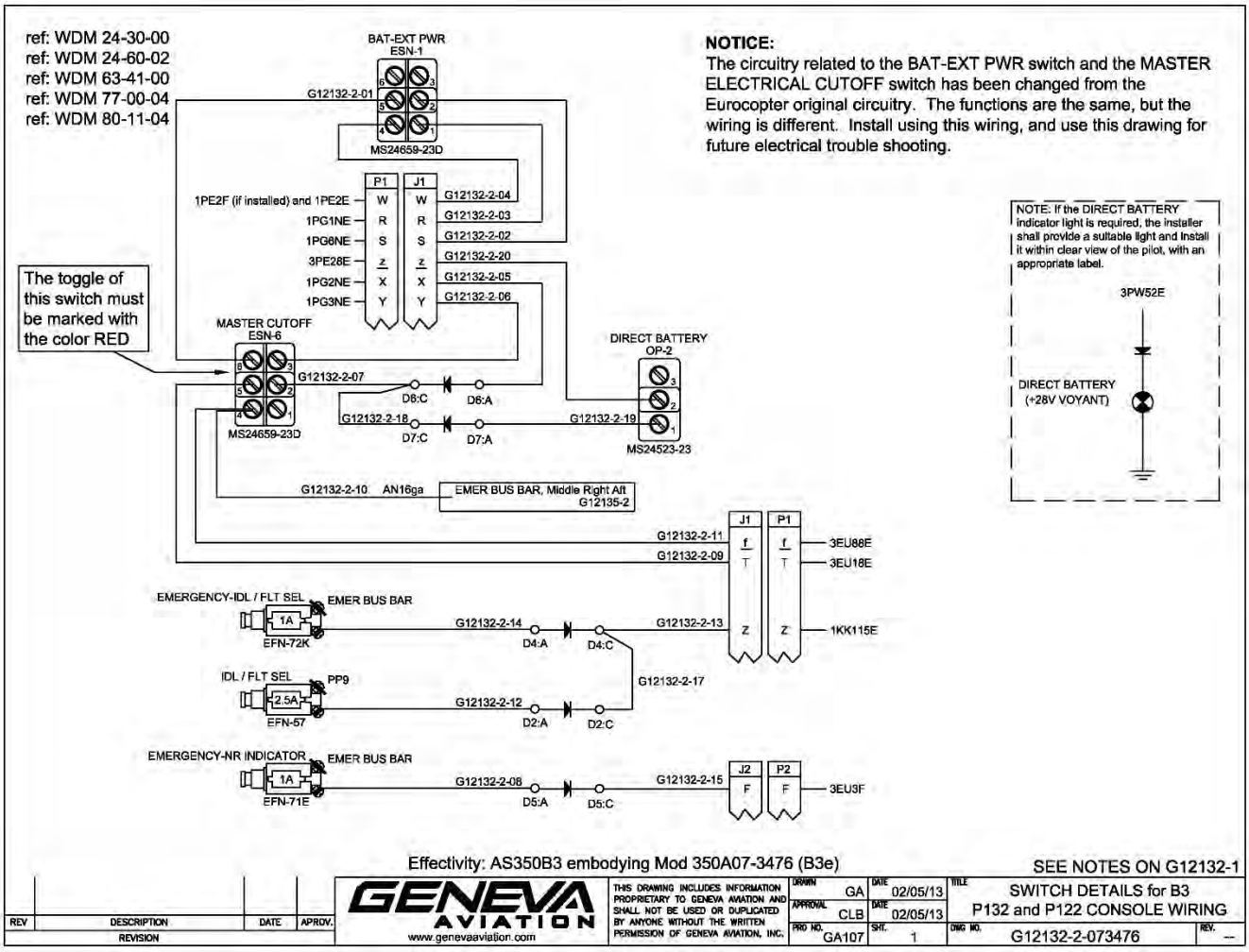

Figure 164: Switch Details (G12132-2-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

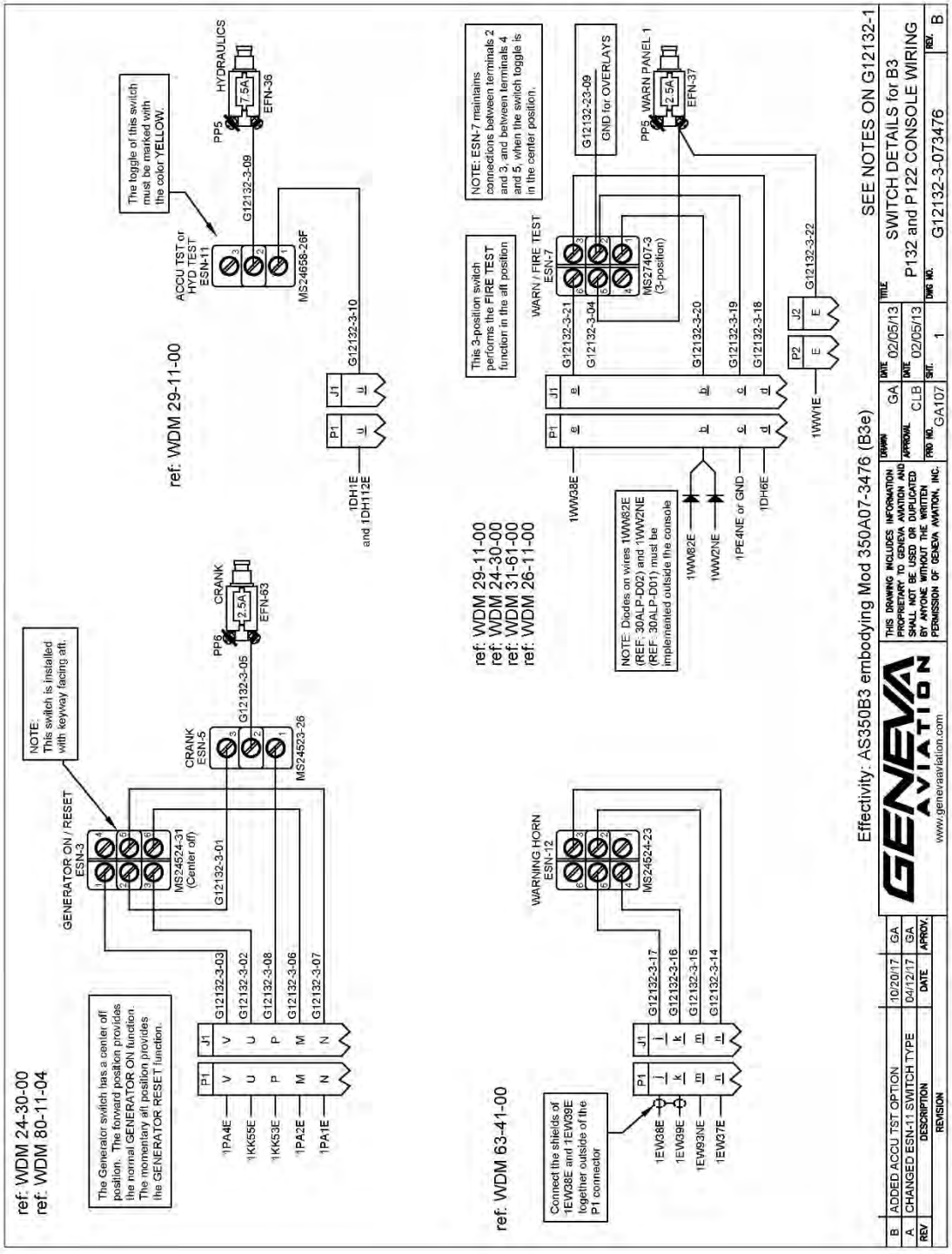

Figure 165: Switch Details (G12132-3-073476 Rev B)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

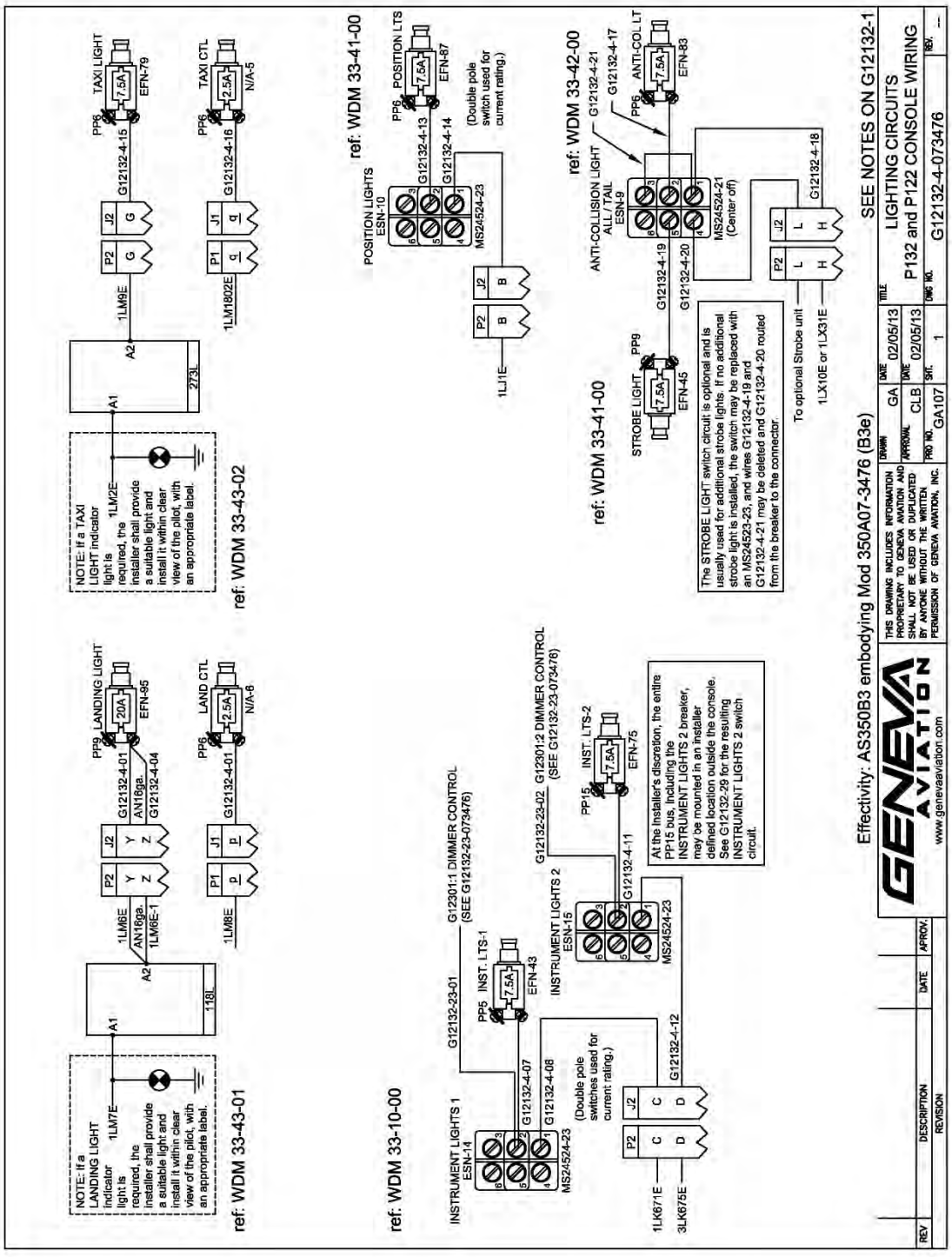

Figure 166: Lighting Circuits (G12132-4-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

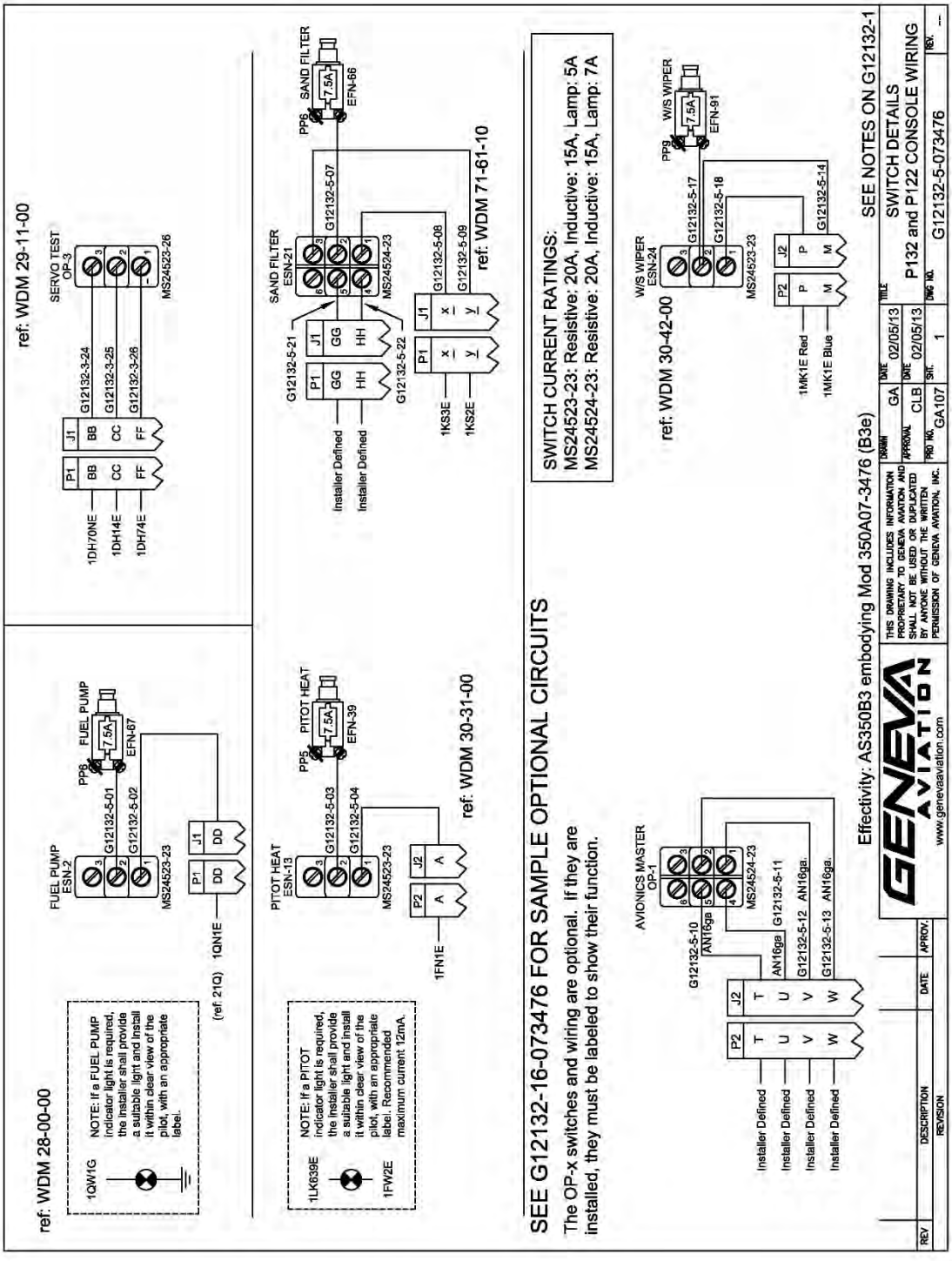

Figure 167: Switch Details (G12132-5-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

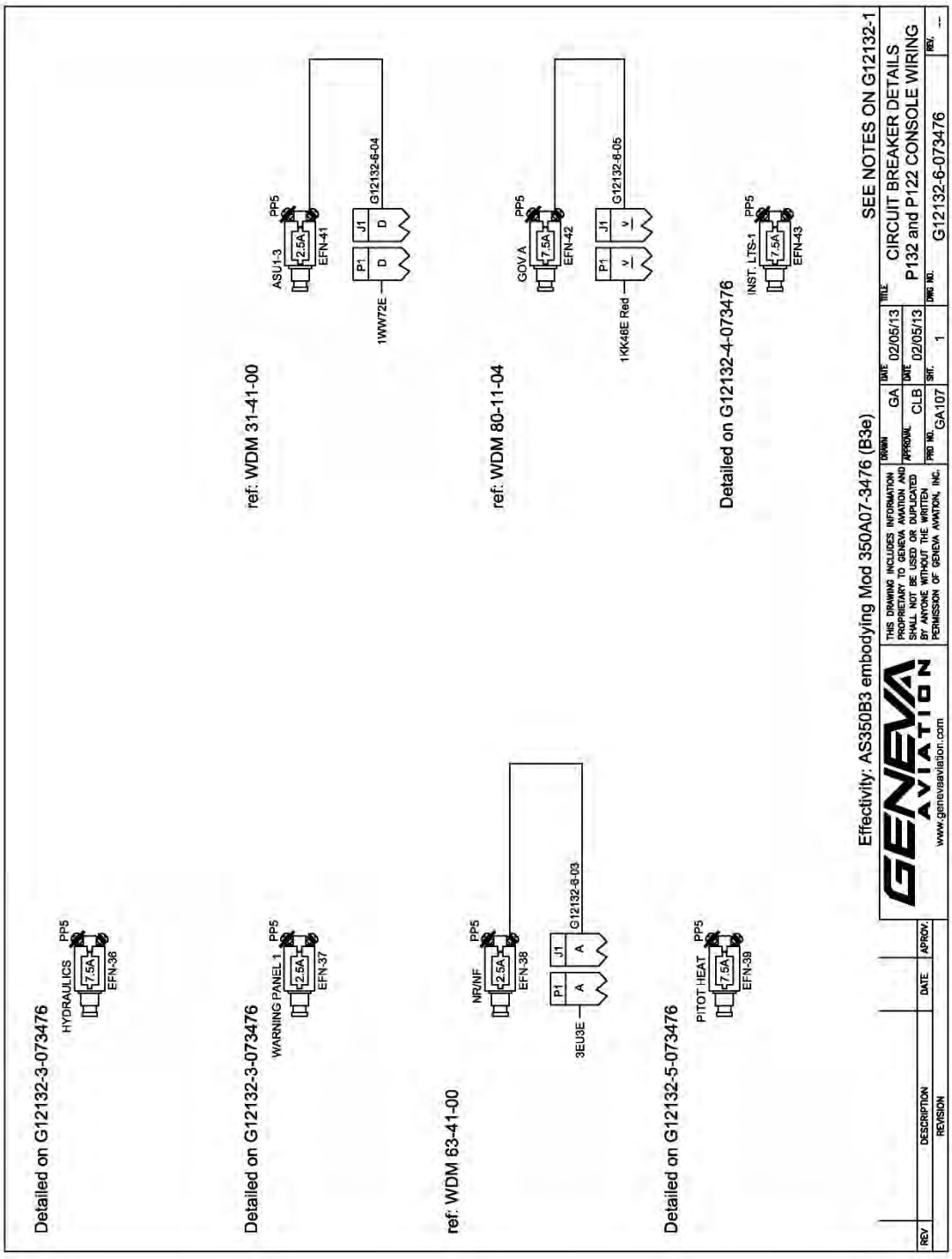

Figure 168: Circuit Breaker Details (G12132-6-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

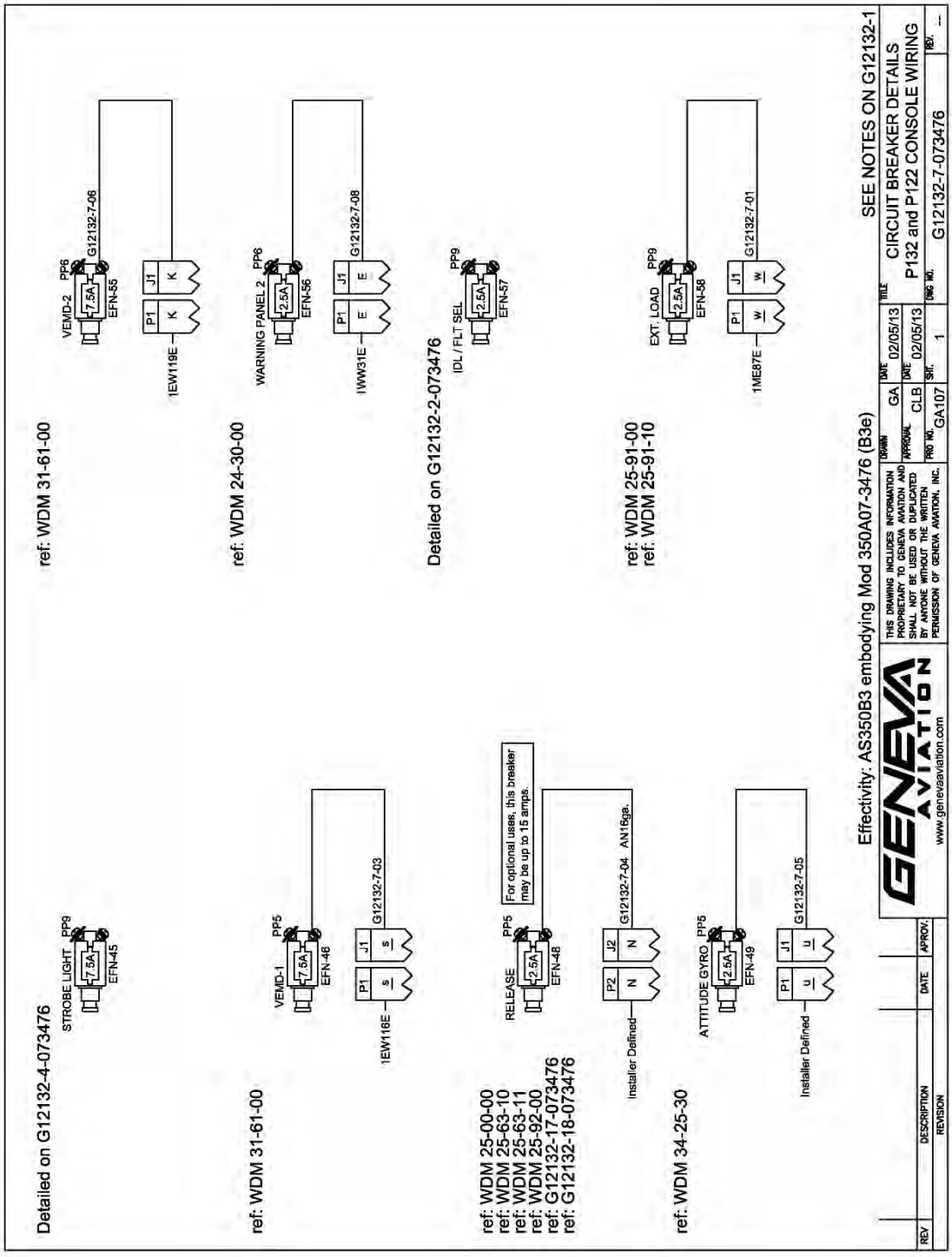

Figure 169: Circuit Breaker Details (G12132-7-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

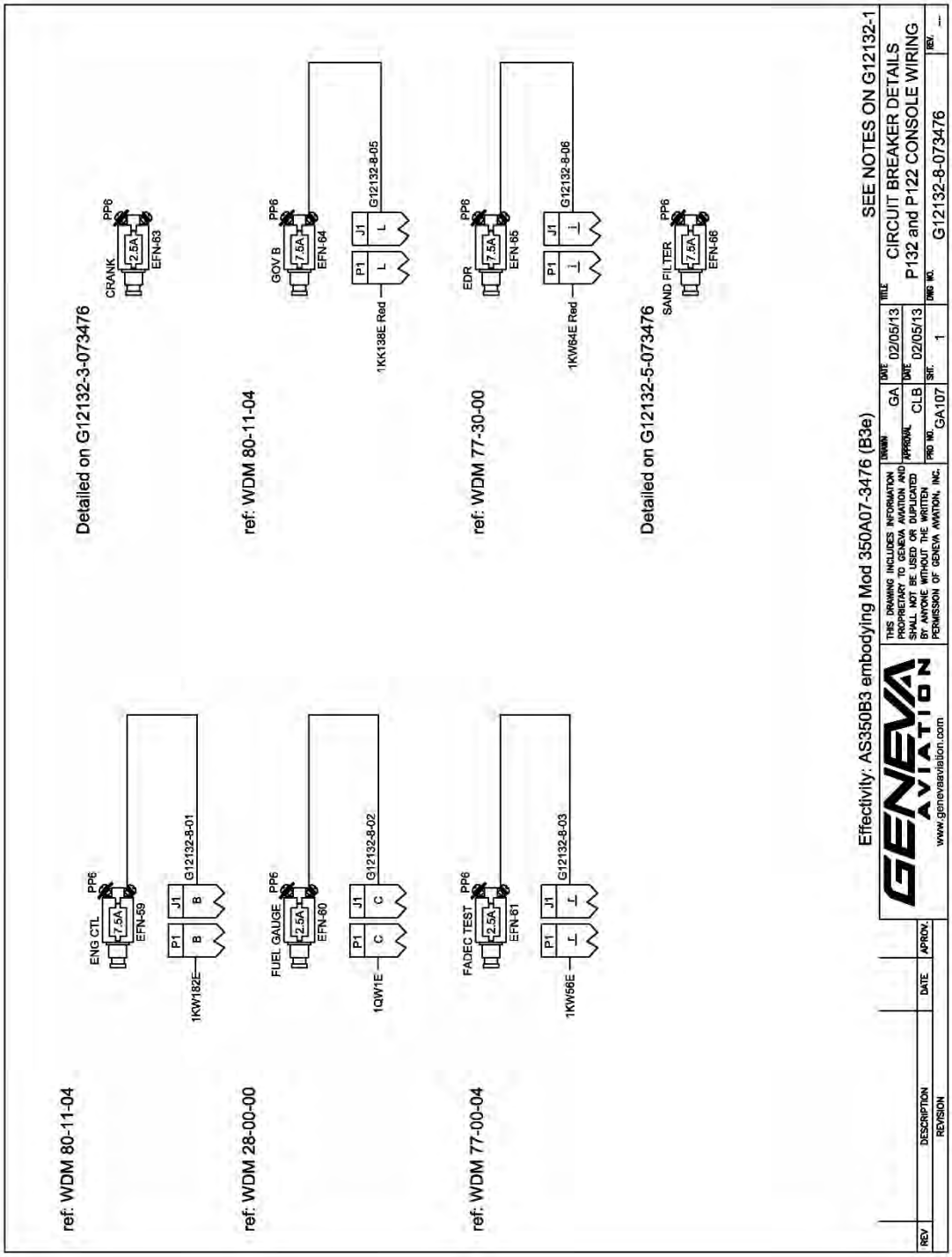

Figure 170: Circuit Breaker Details (G12132-8-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

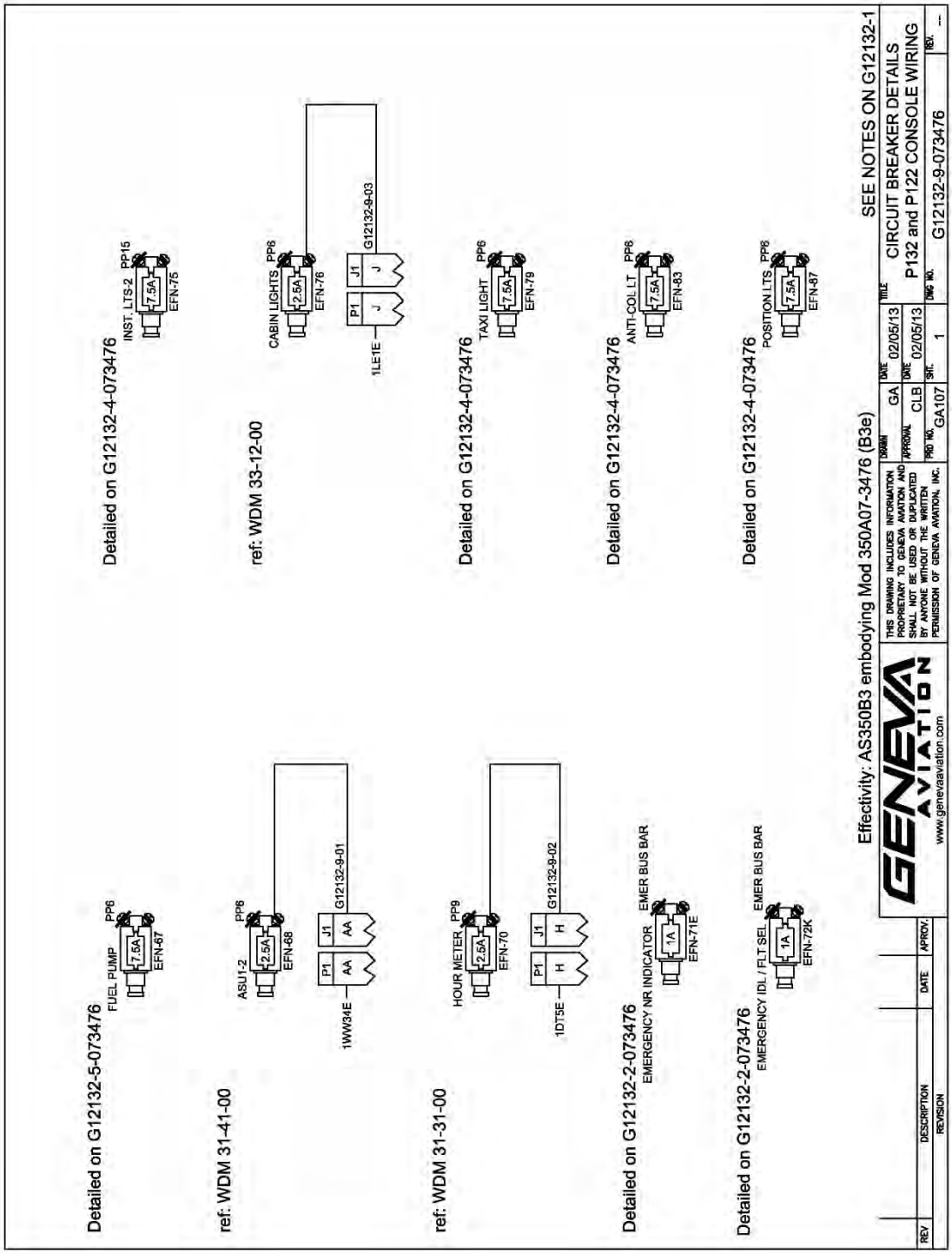

Figure 171: Circuit Breaker Details (G12132-9-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

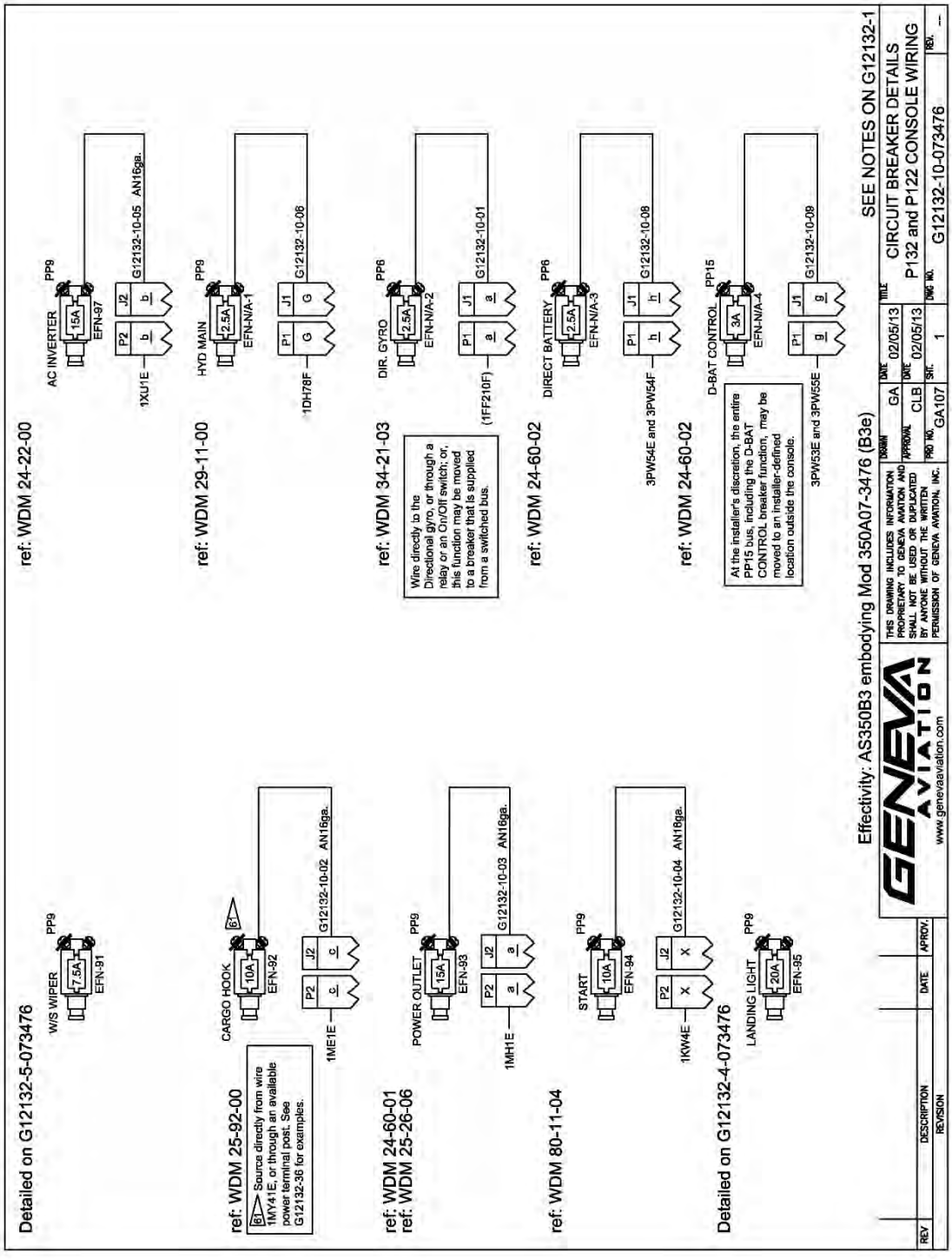

Figure 172: Circuit Breaker Details (G12132-10-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

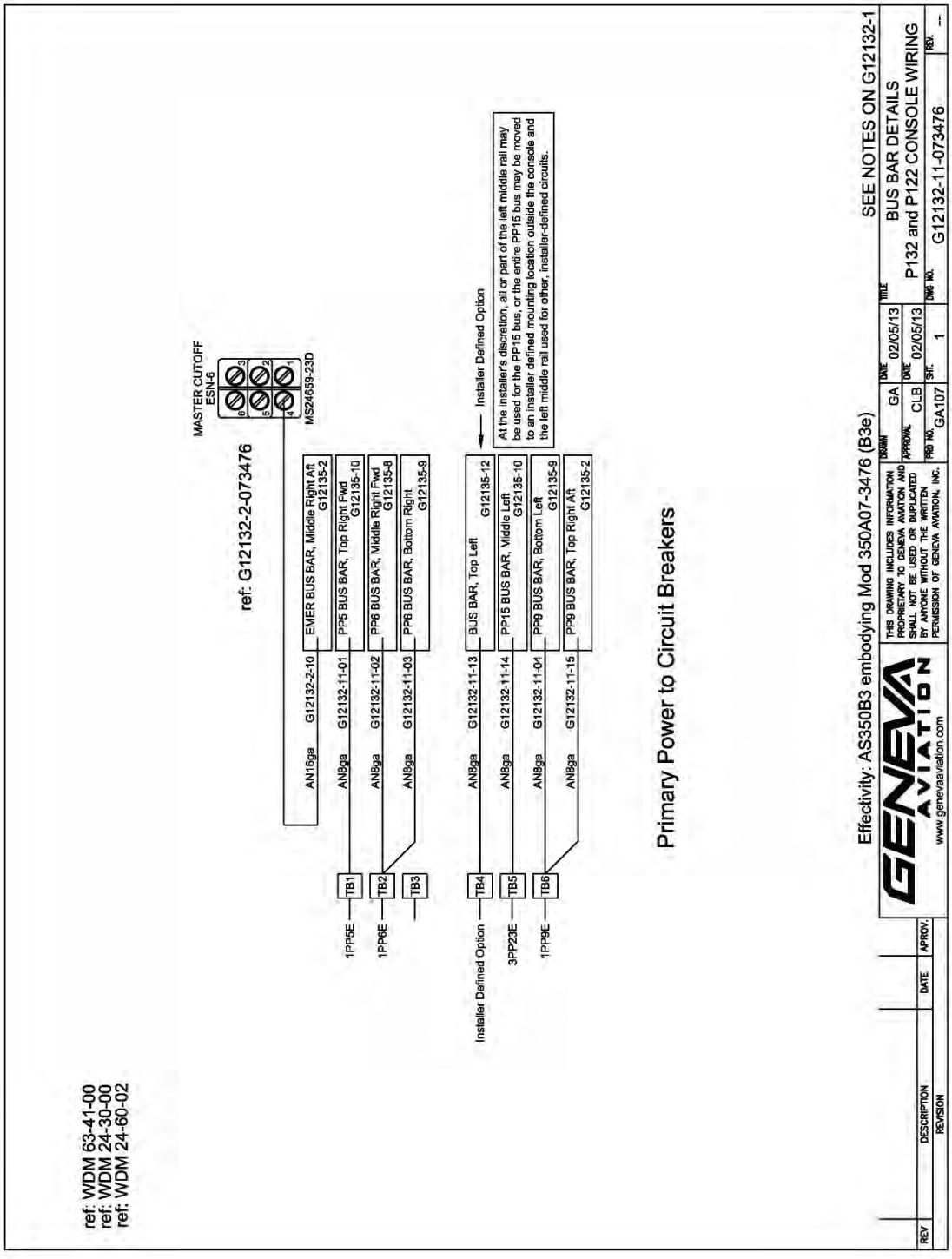

Figure 173: Bus Bar Details (G12132-11-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

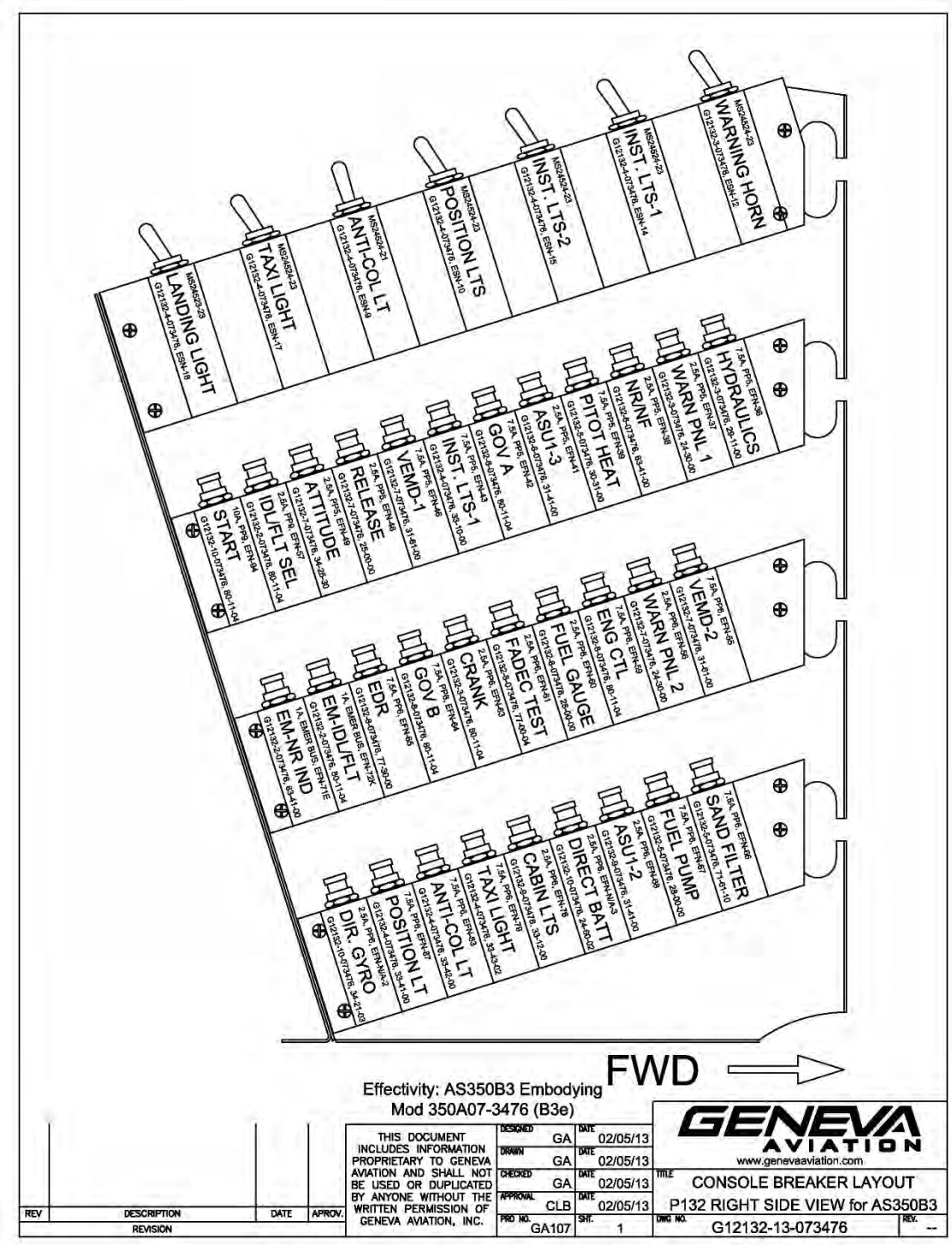

Figure 174: P132 Console RH Side CB Layout (G12132-13-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

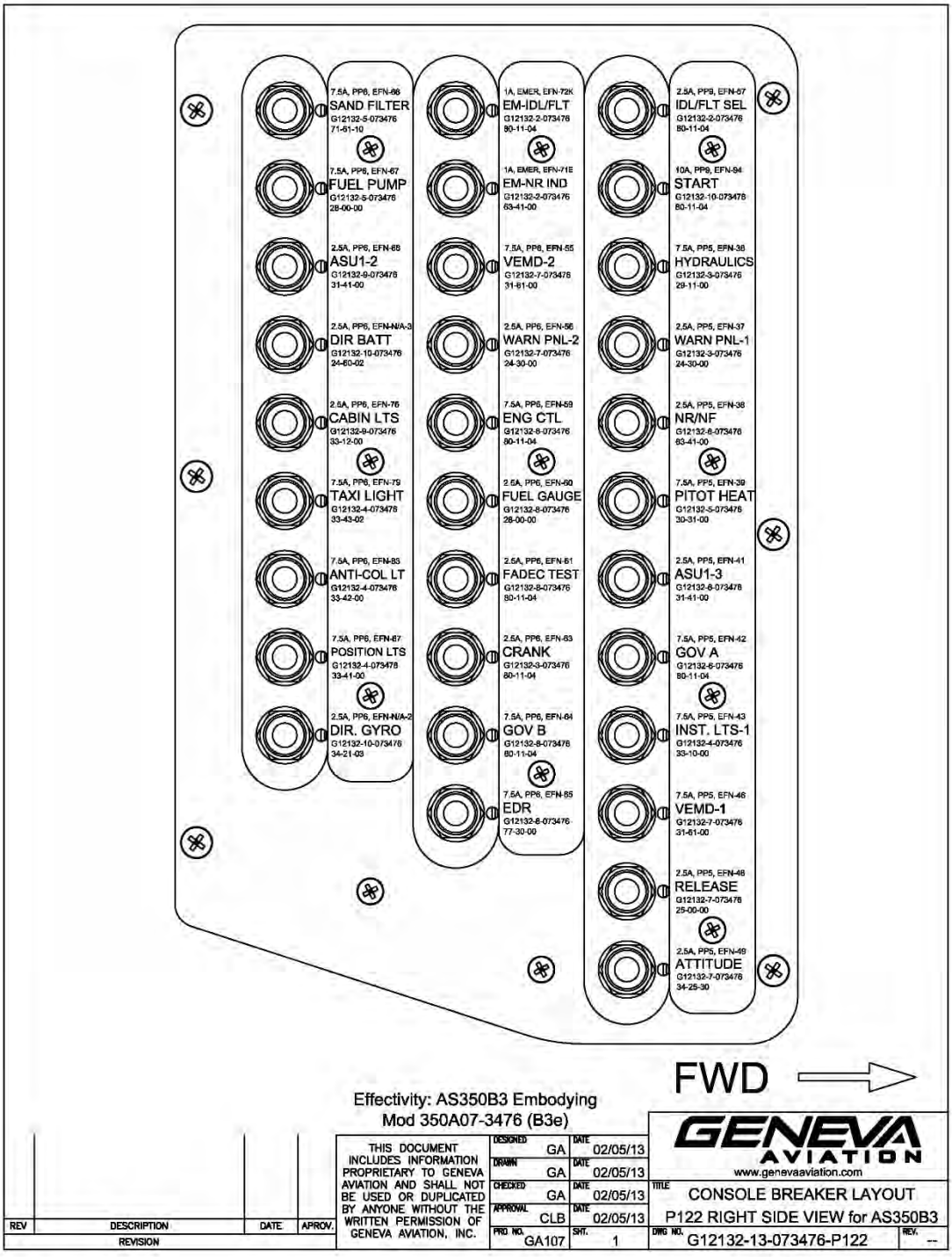

Figure 175: P122 Console RH Side CB Layout (G12132-13-073476-P122 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

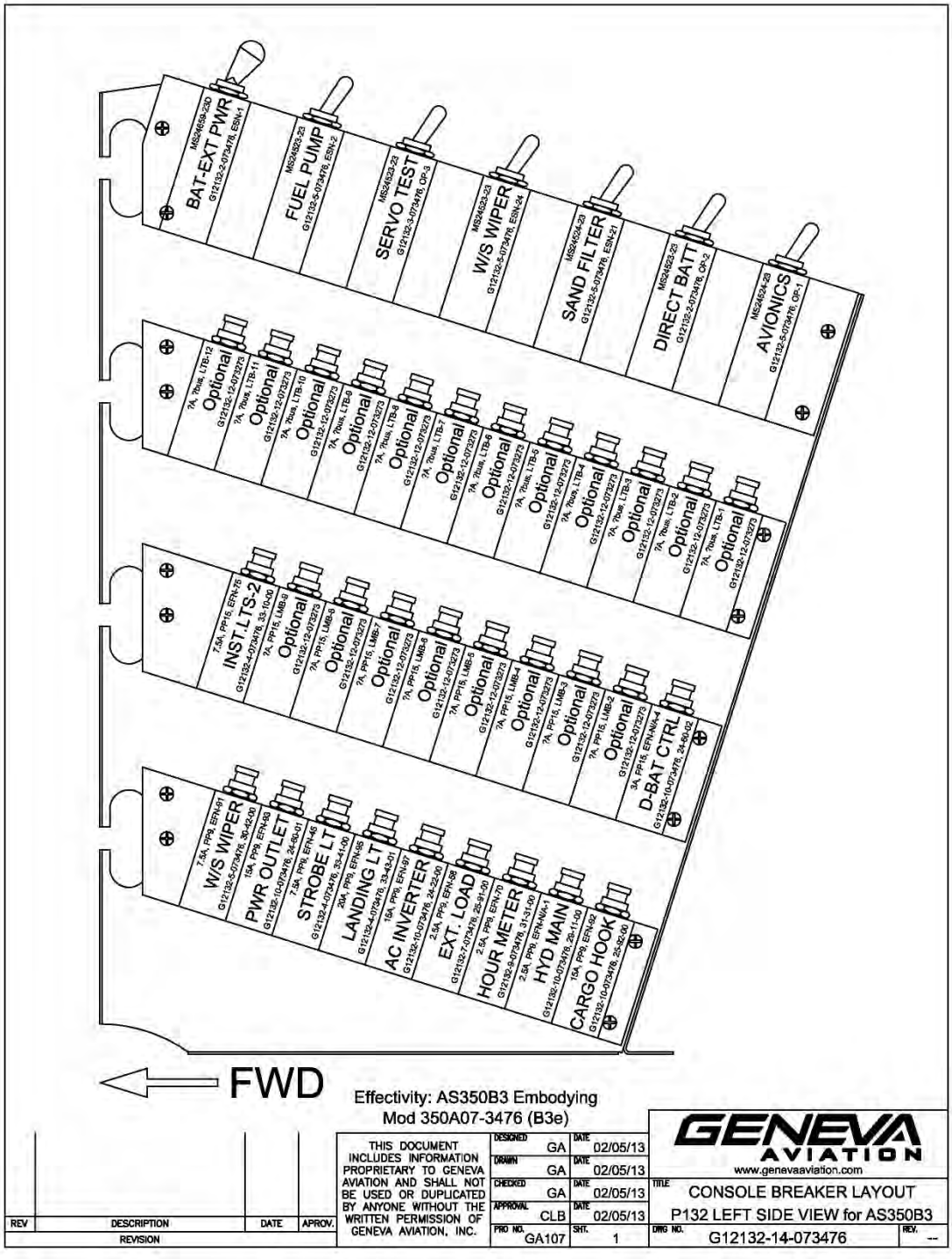

Figure 176: P132 Console LH Side CB Layout (G12132-14-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

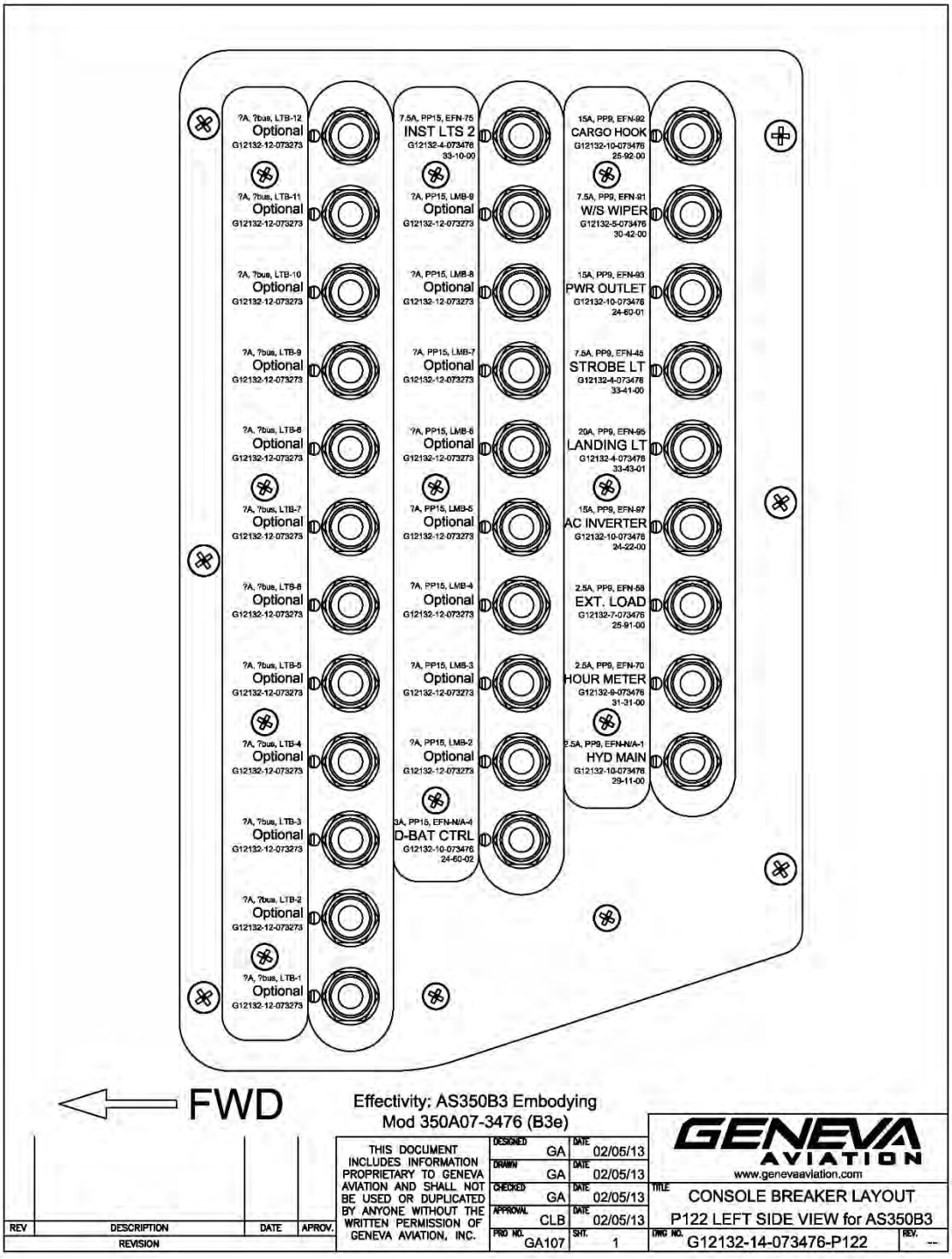

Figure 177: P132 Console LH Side CB Layout (G12132-14-073476- P122 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

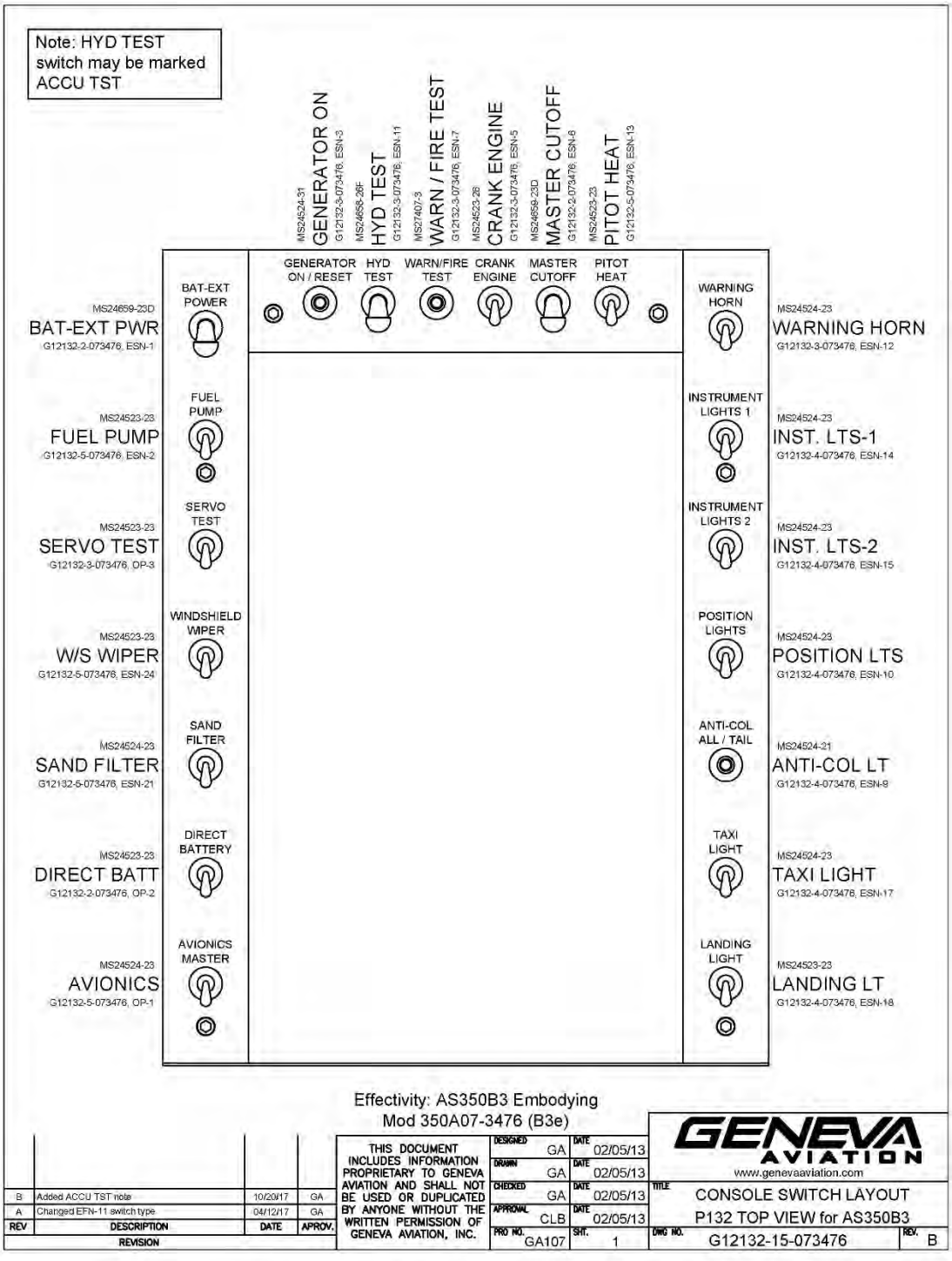

Figure 178: P132 Console Switch Layout (G12132-15-073476 Rev B)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

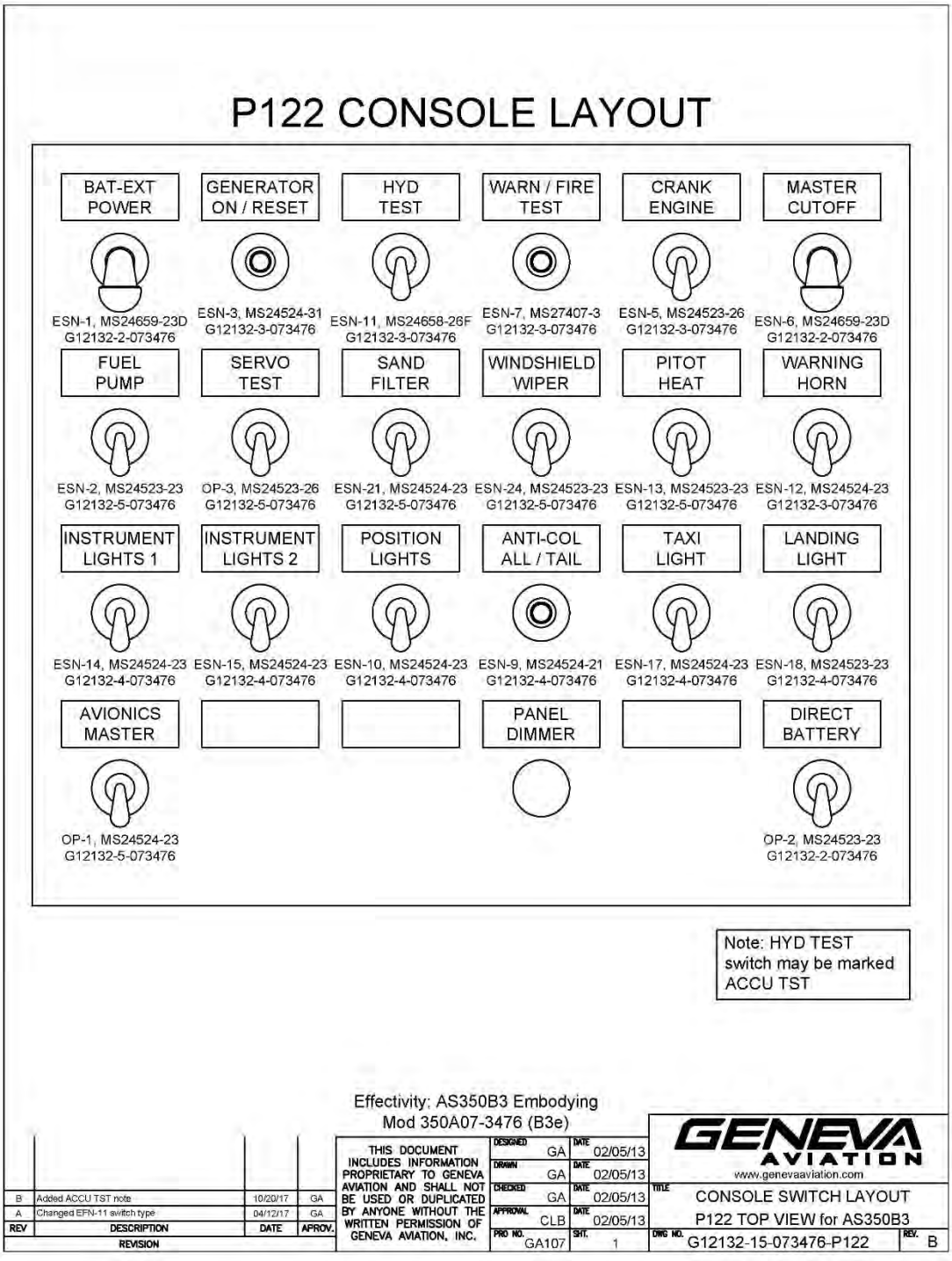

Figure 179: P122 Console Switch Layout (G12132-15-073476-P122 Rev B)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

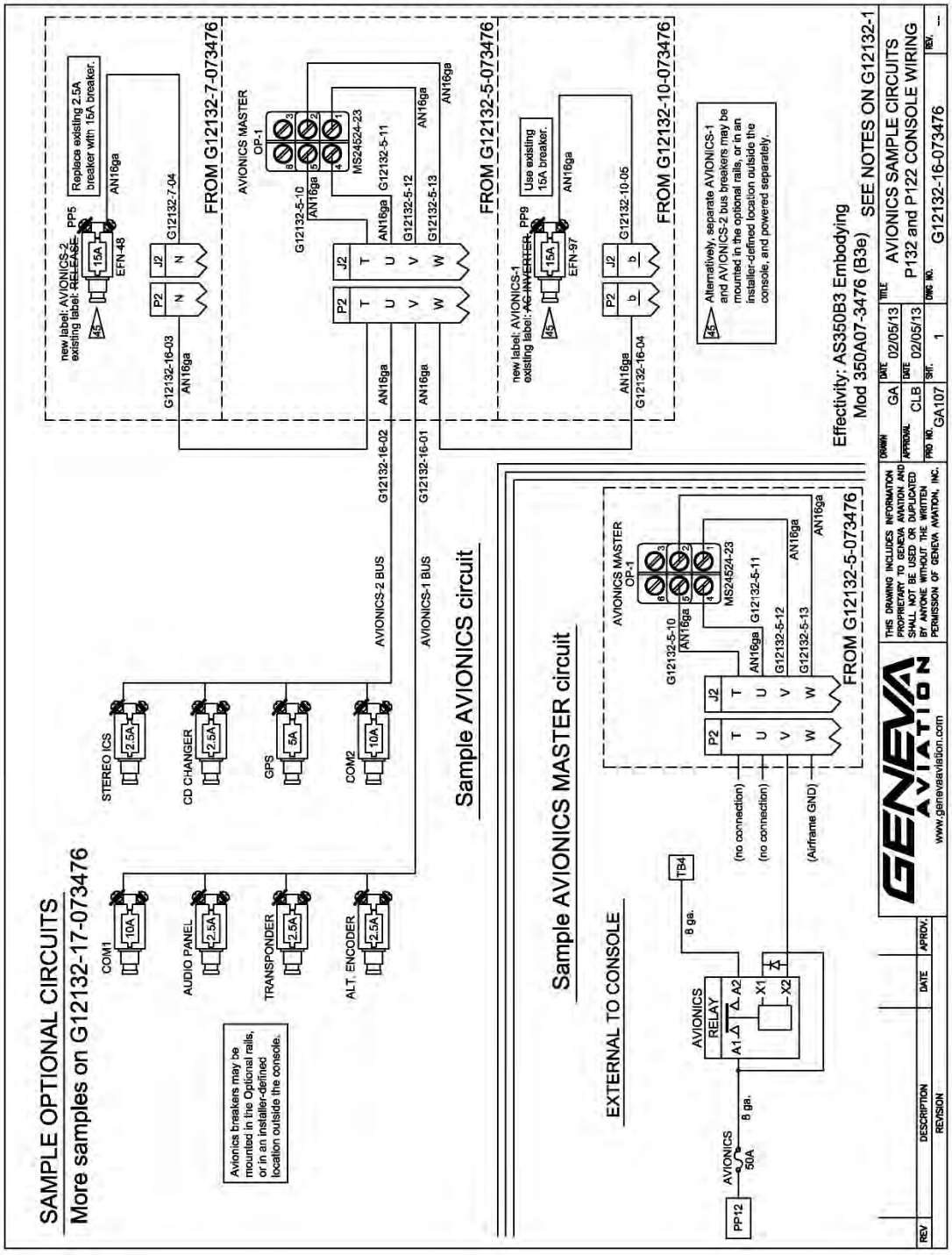

Figure 180: Console Avionics Sample Circuit (G12132-16-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

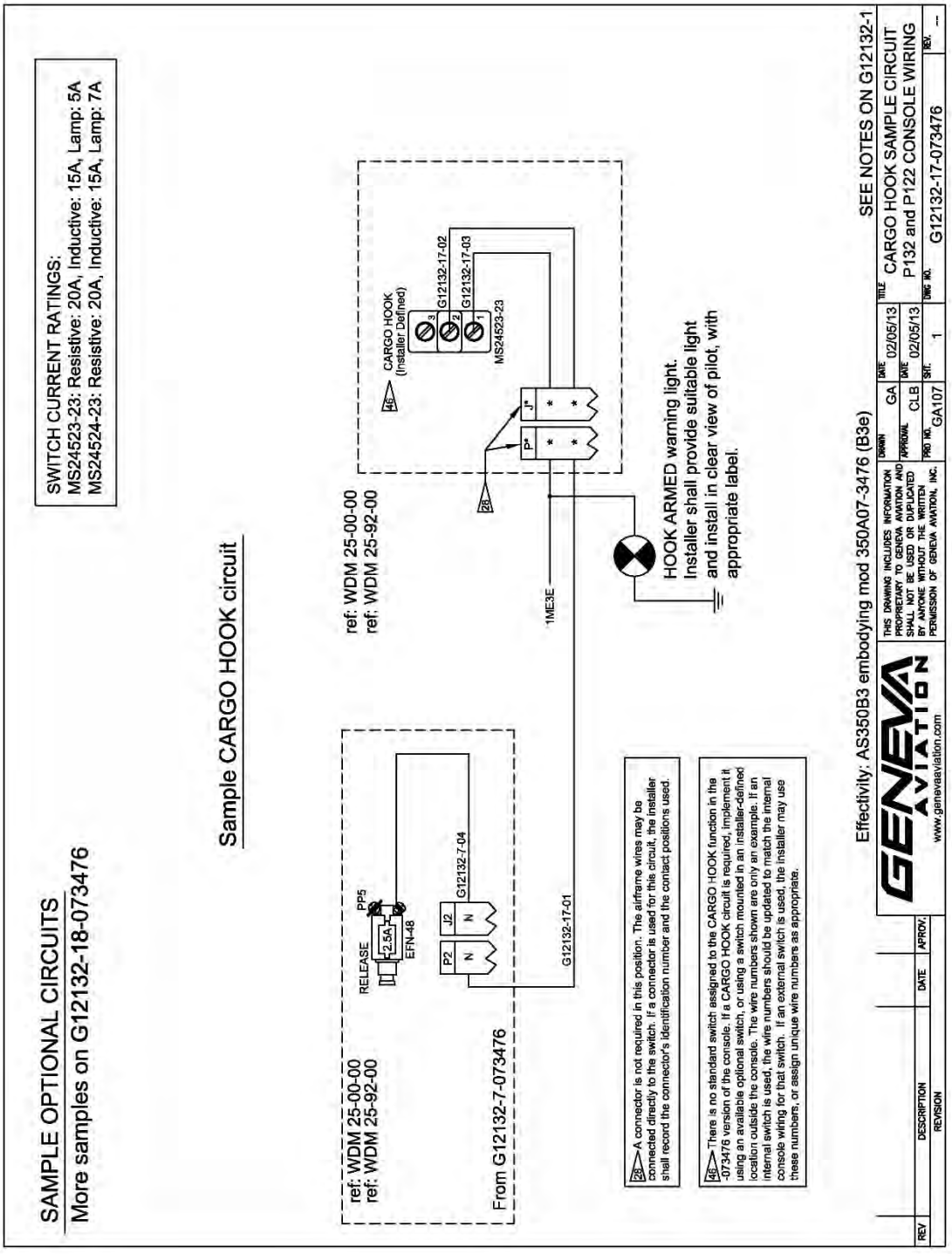

Figure 181: Cargo Hook Sample Circuit (G12132-17-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

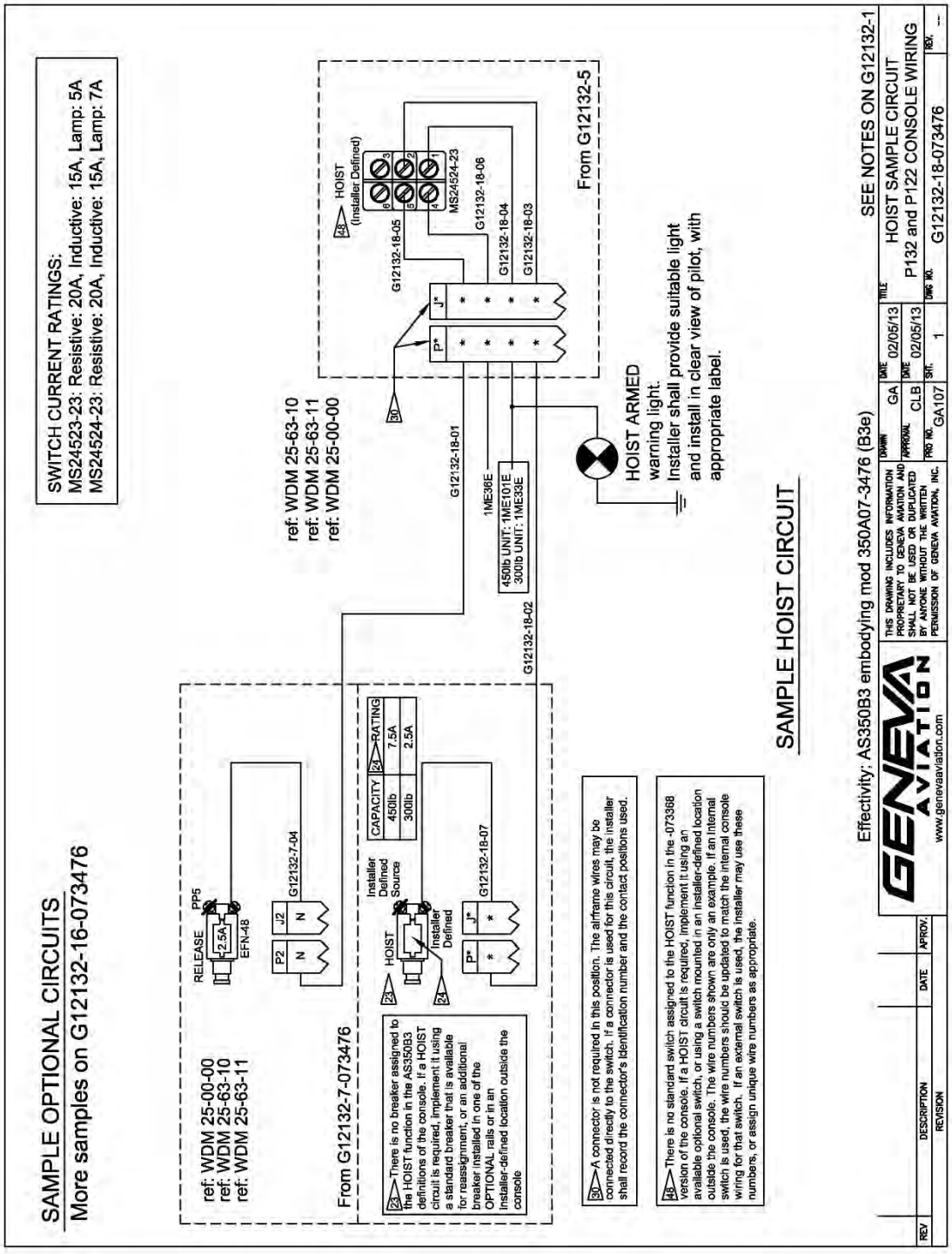

Figure 182: Hoist Sample Circuit (G12132-18-073476 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-3476.

6.11 Wiring Diagrams Post-MOD AS350A07-4280B2

6.11.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B2 aircraft Post Mod 350A07-4280.

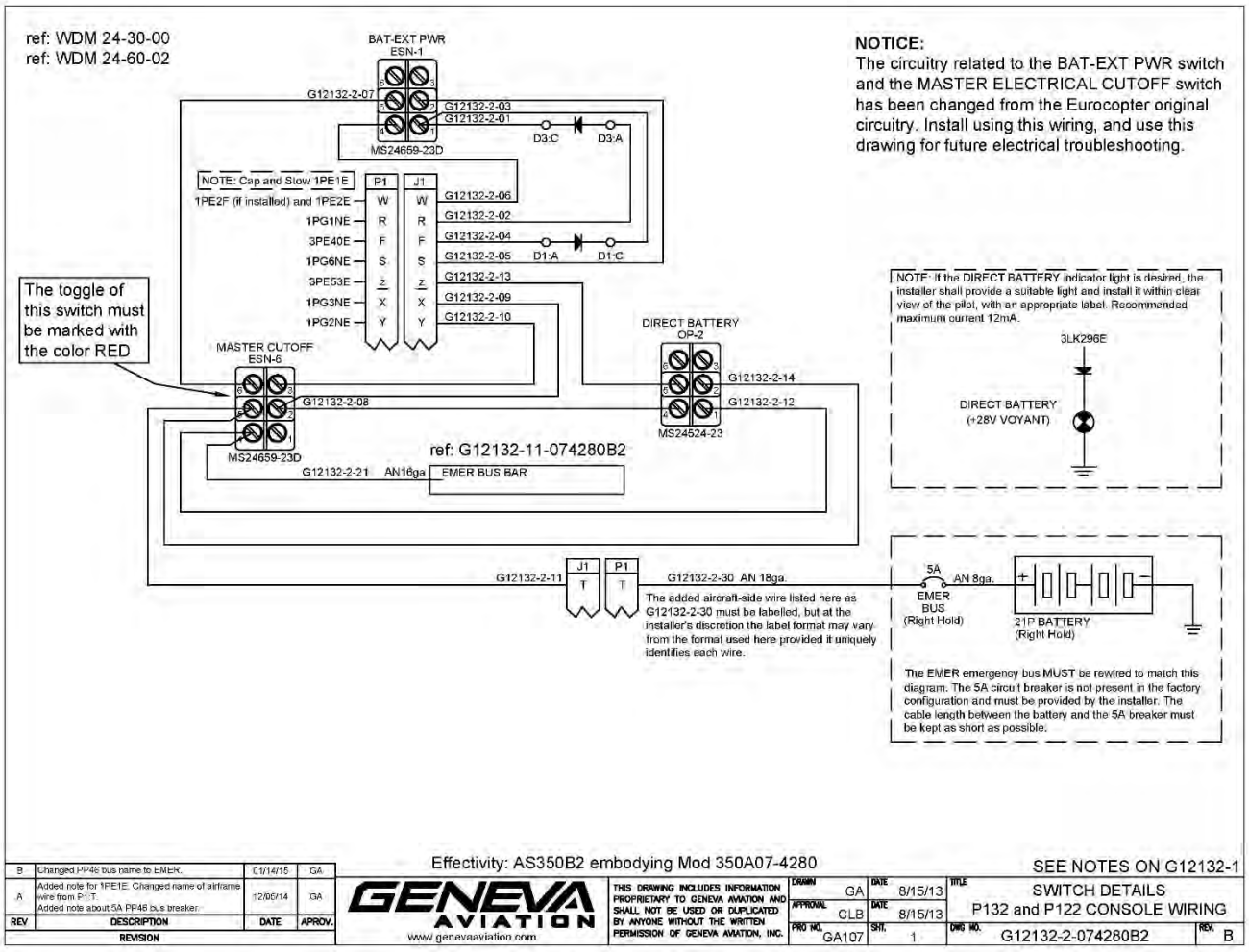

Figure 183: Switch Details (G12132-2-074280B2 Rev B)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

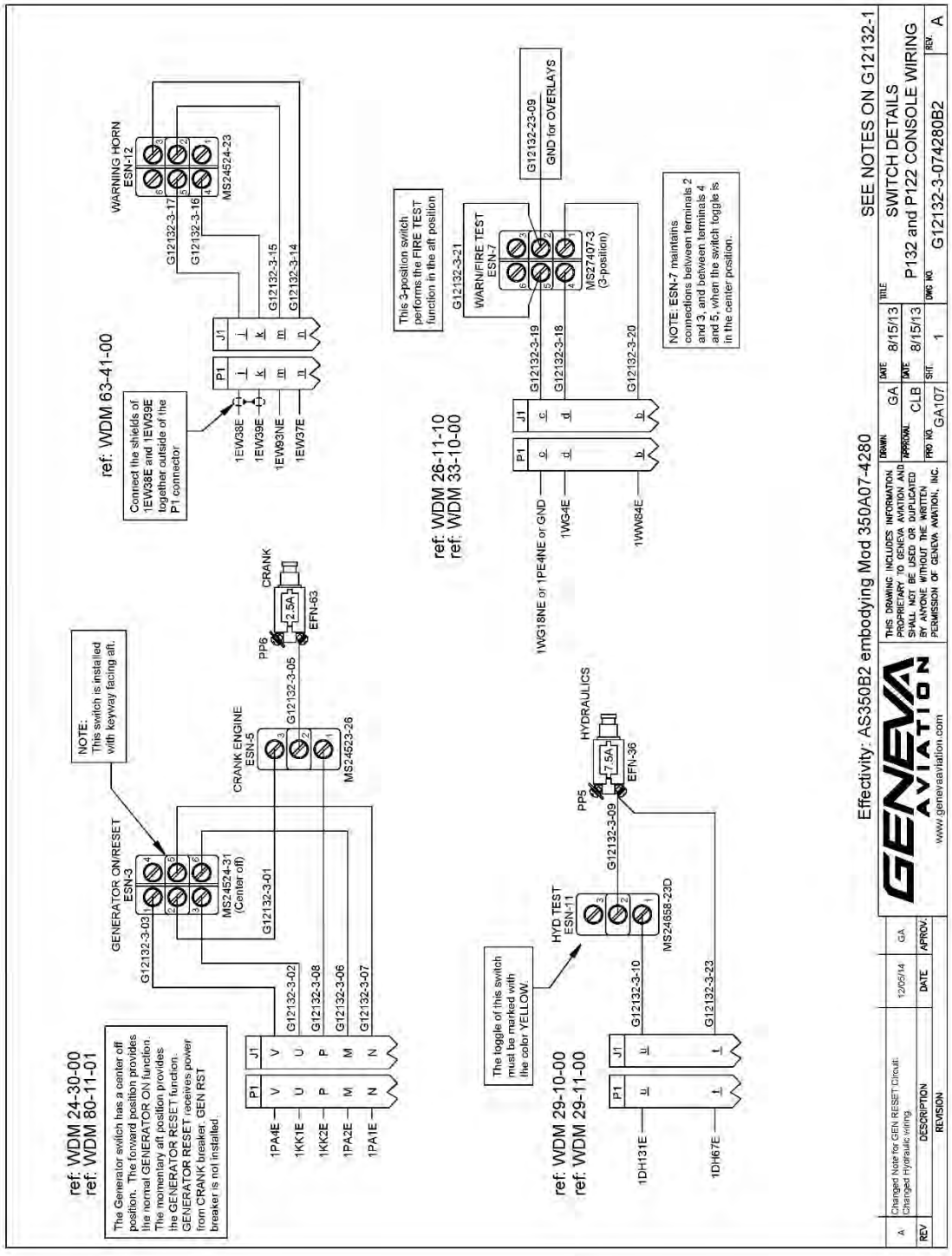

Figure 184: Switch Details (G12132-3-074280B2 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

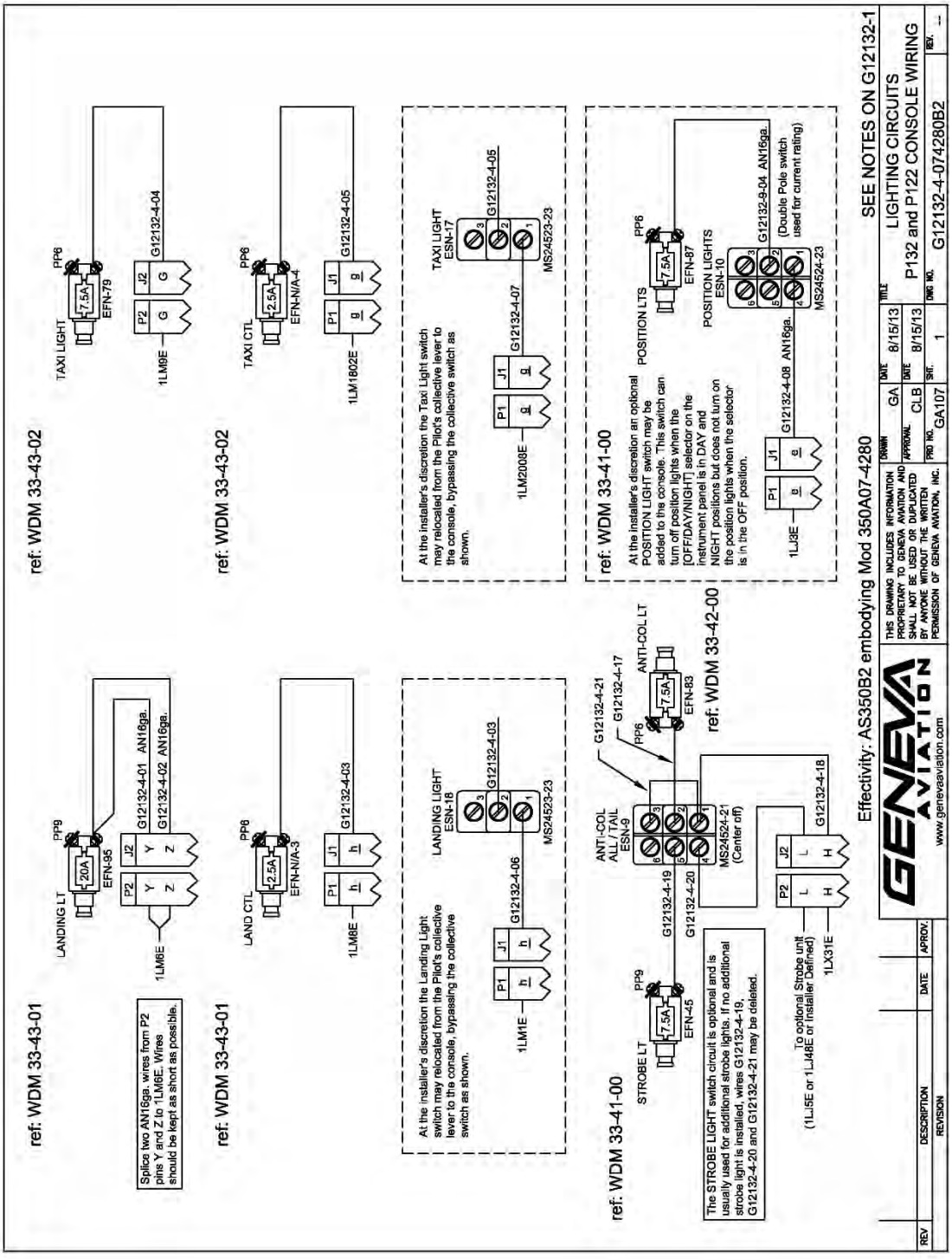

Figure 185: Lighting Circuits (G12132-4-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

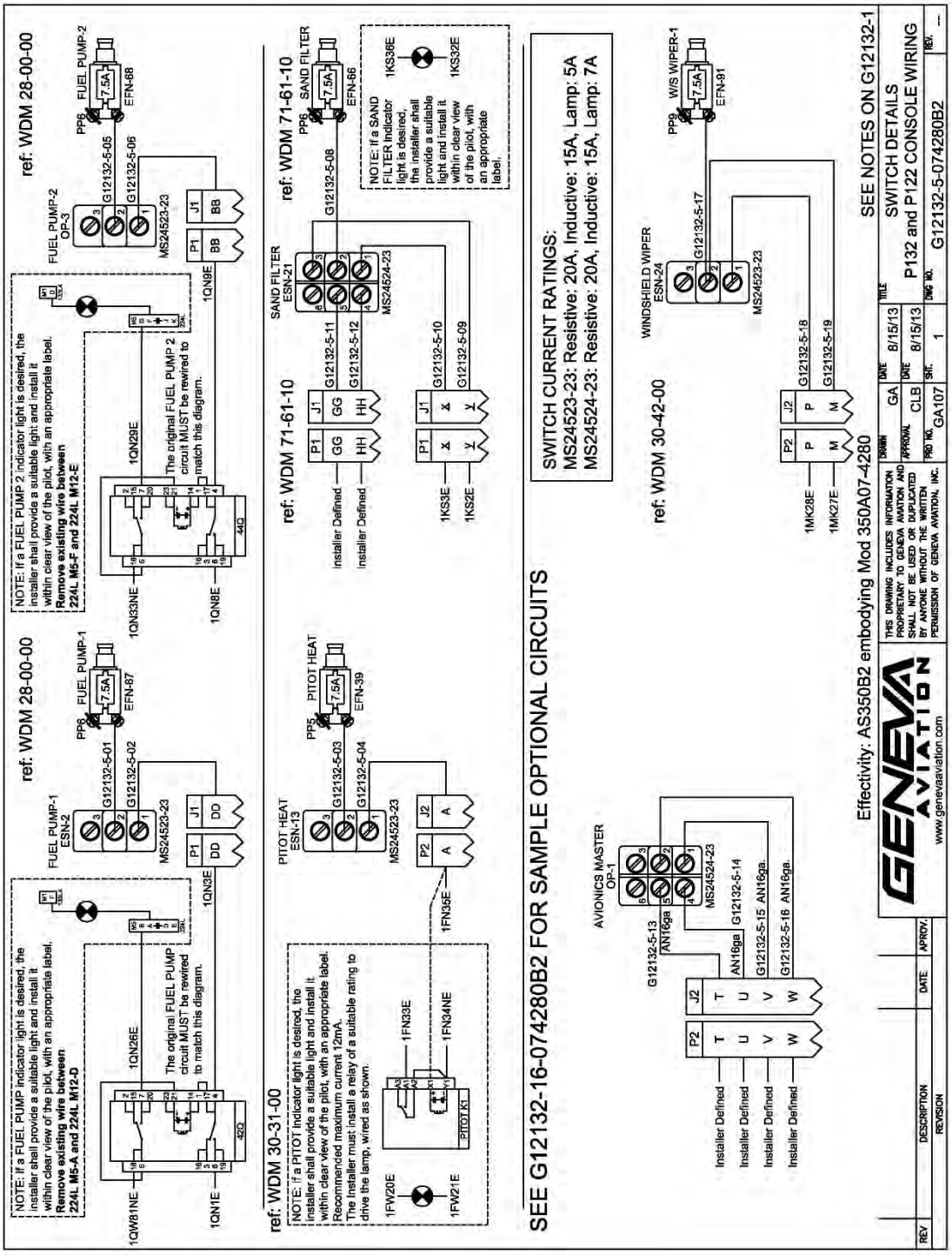

Figure 186: Switch Details (G12132-5-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

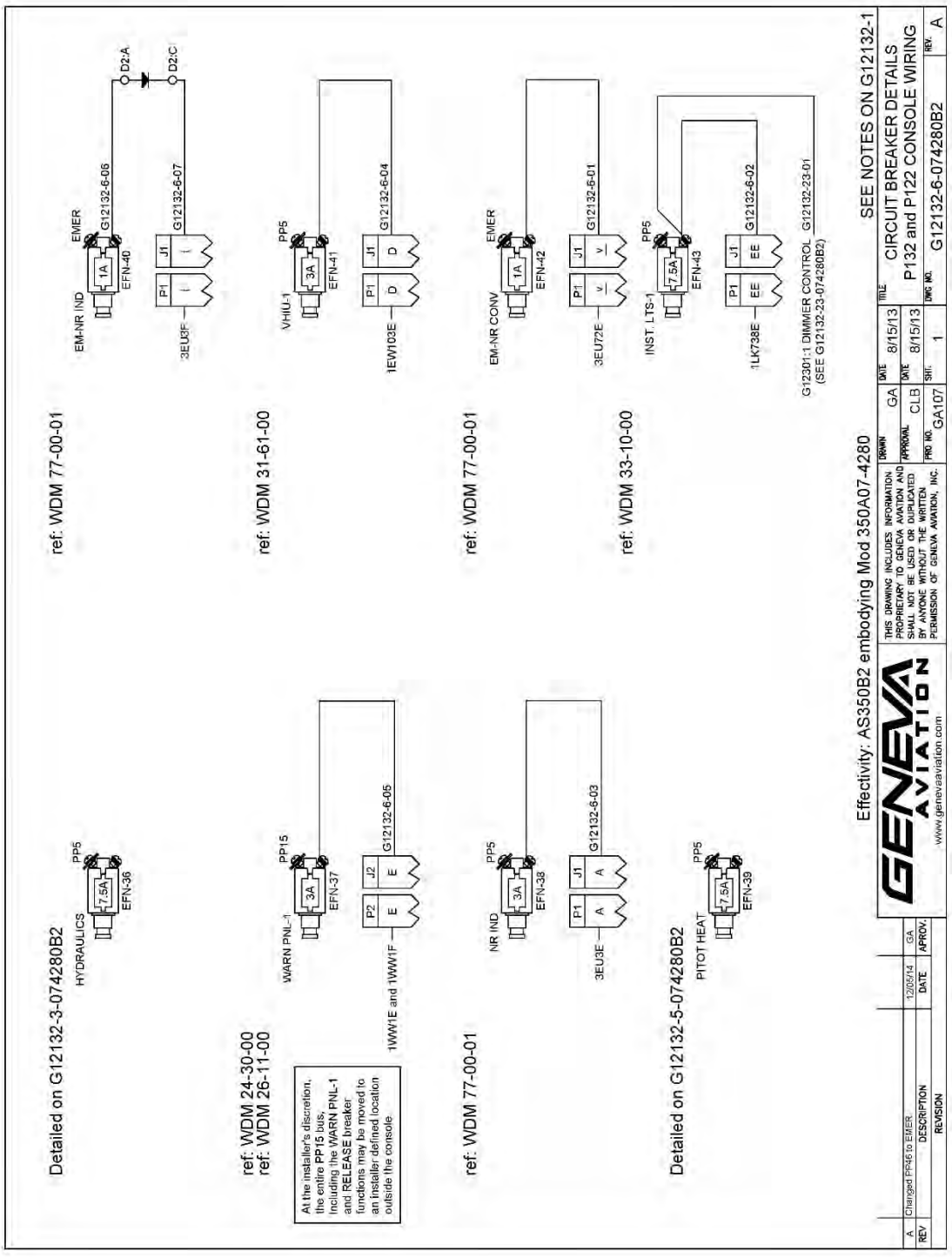

Figure 187: Circuit Breaker Details (G12132-6-074280B2 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

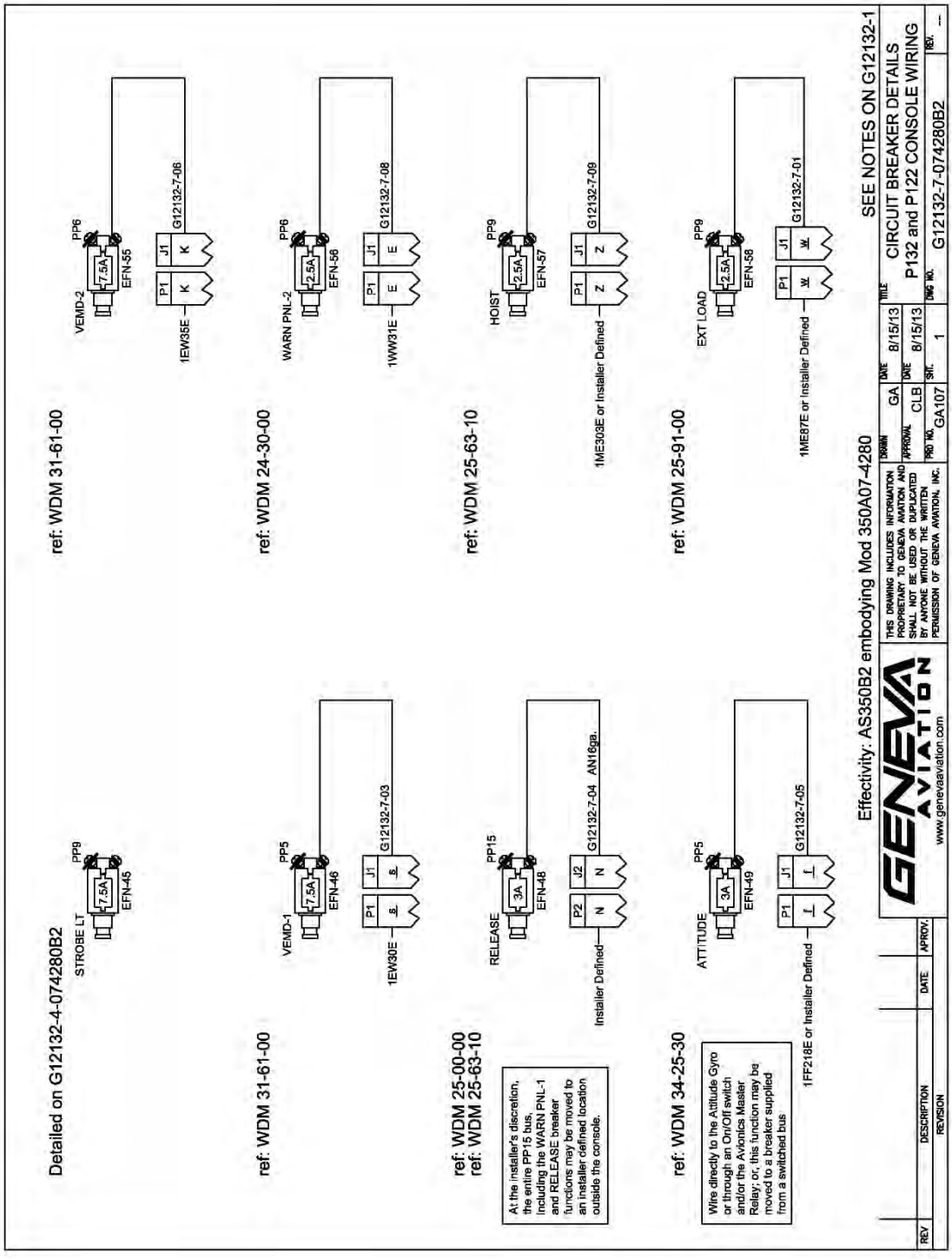

Figure 188: Circuit Breaker Details (G12132-7-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

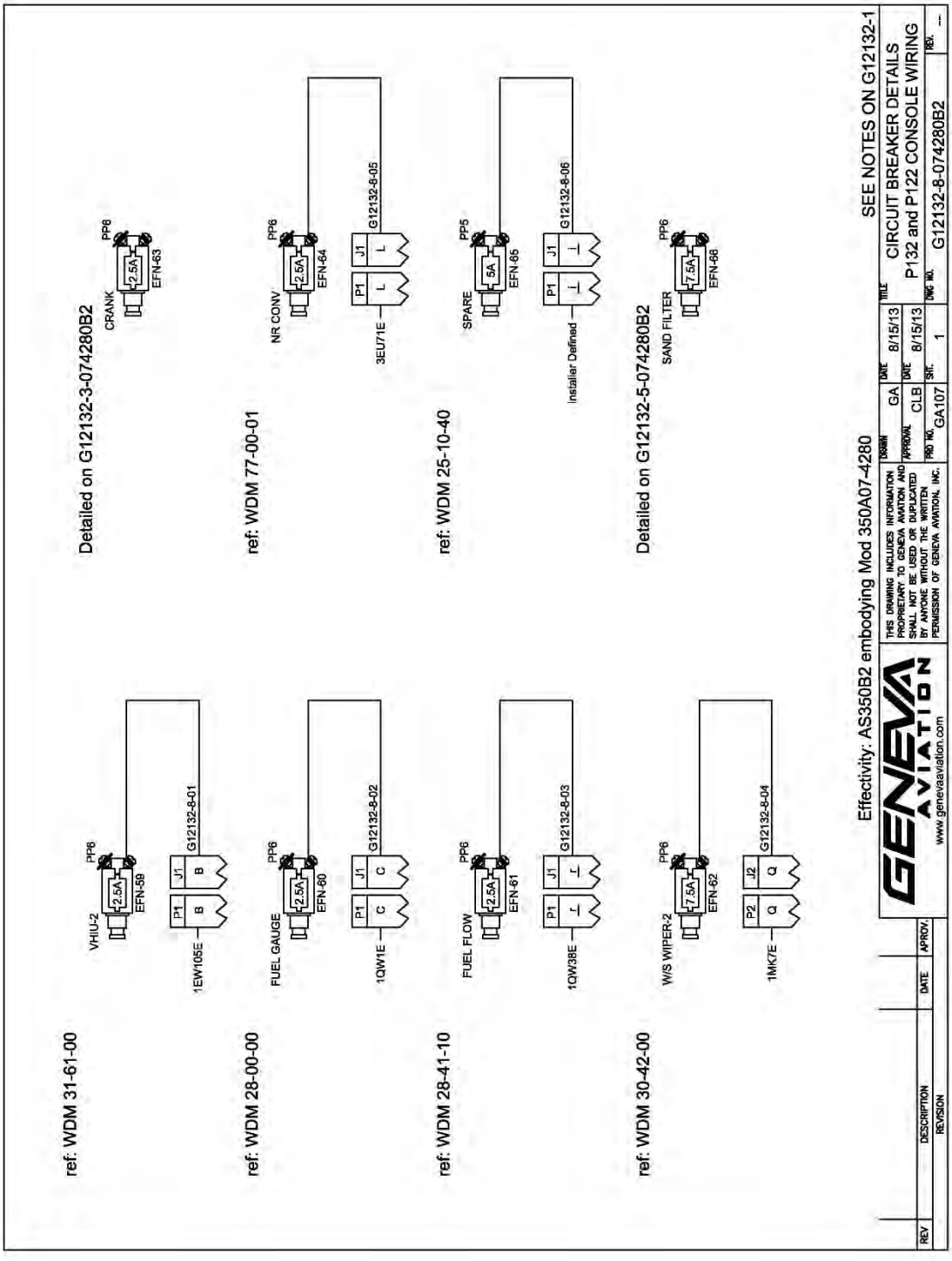

Figure 189: Circuit Breaker Details (G12132-8-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

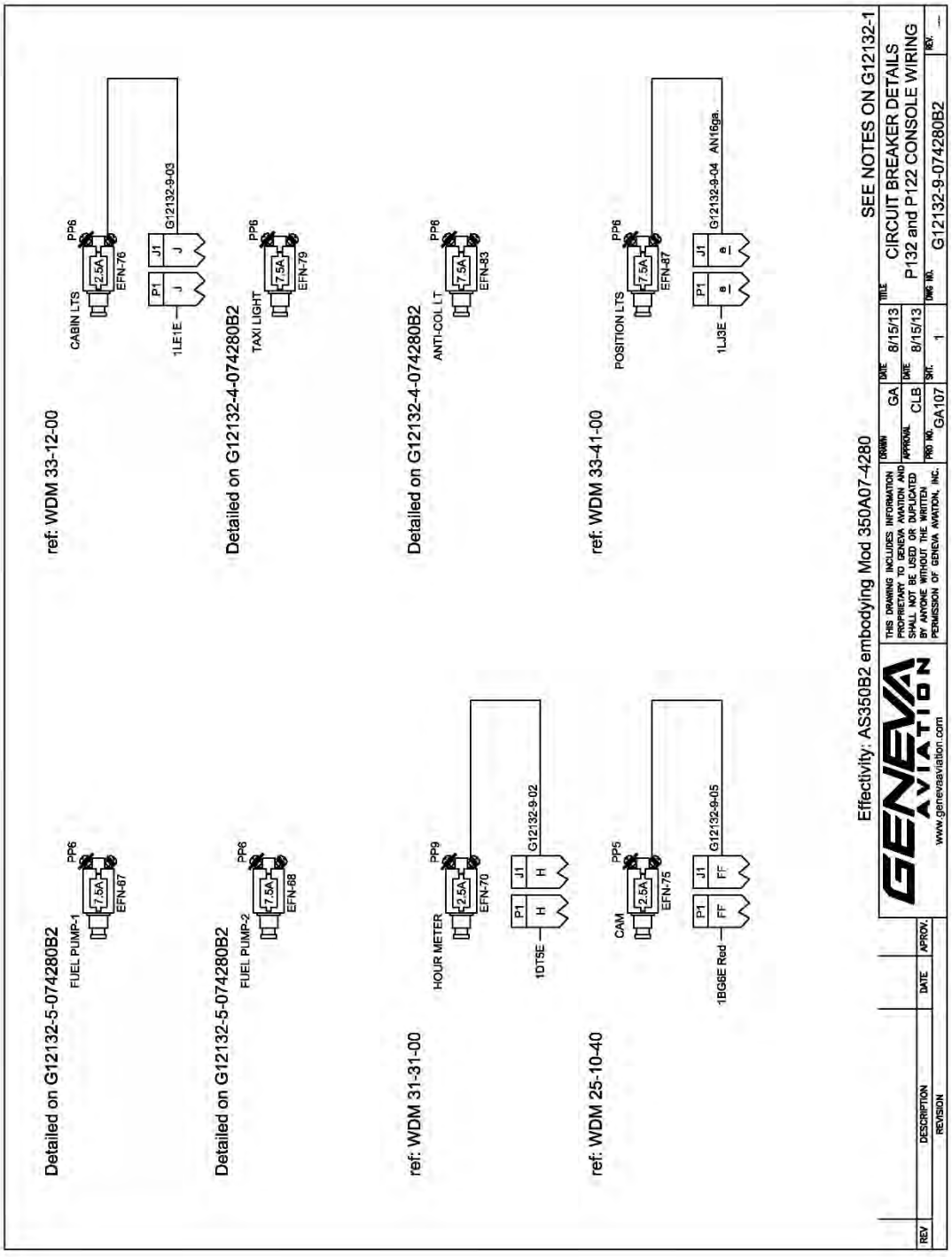

Figure 190: Circuit Breaker Details (G12132-9-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

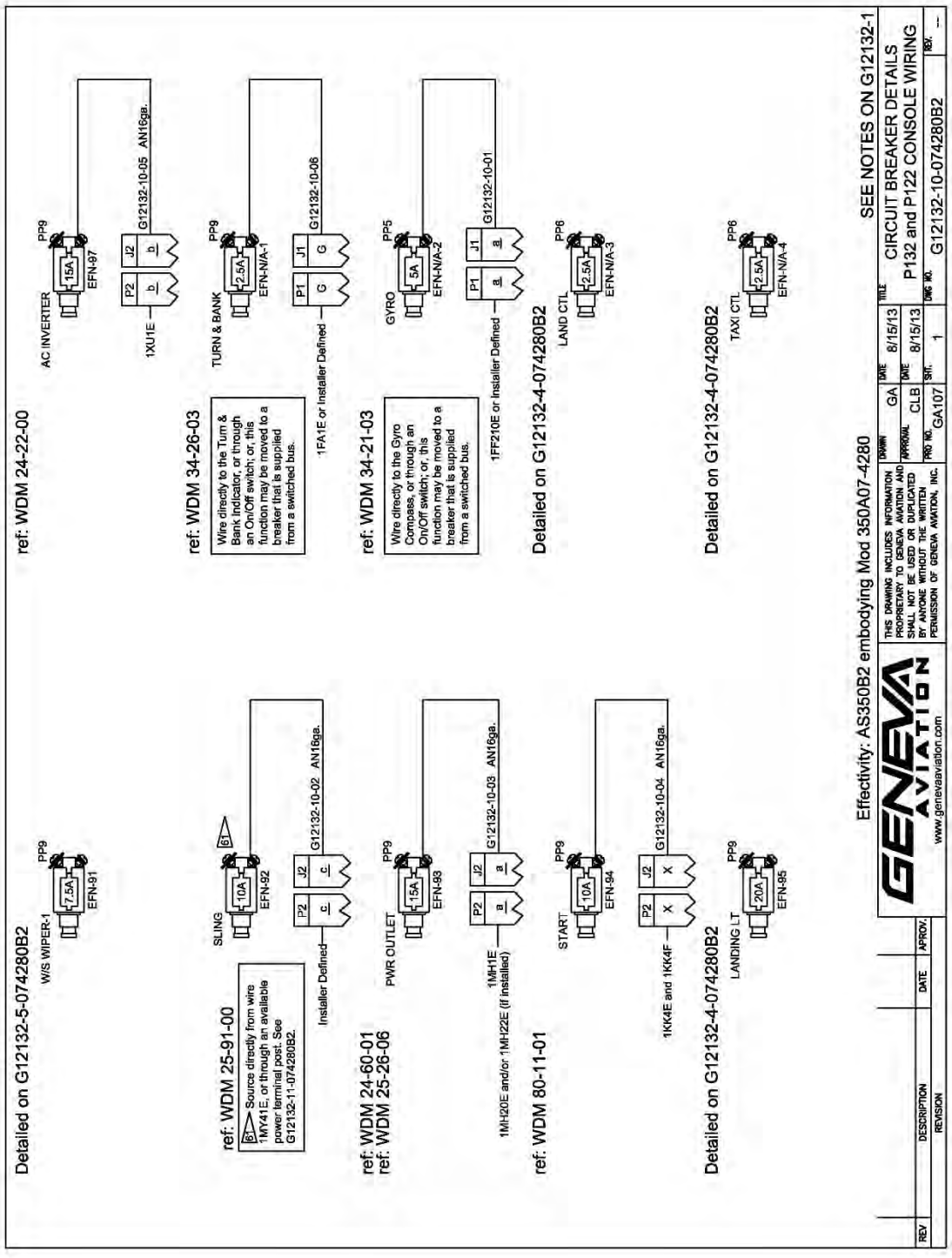

Figure 191: Circuit Breaker Details (G12132-10-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

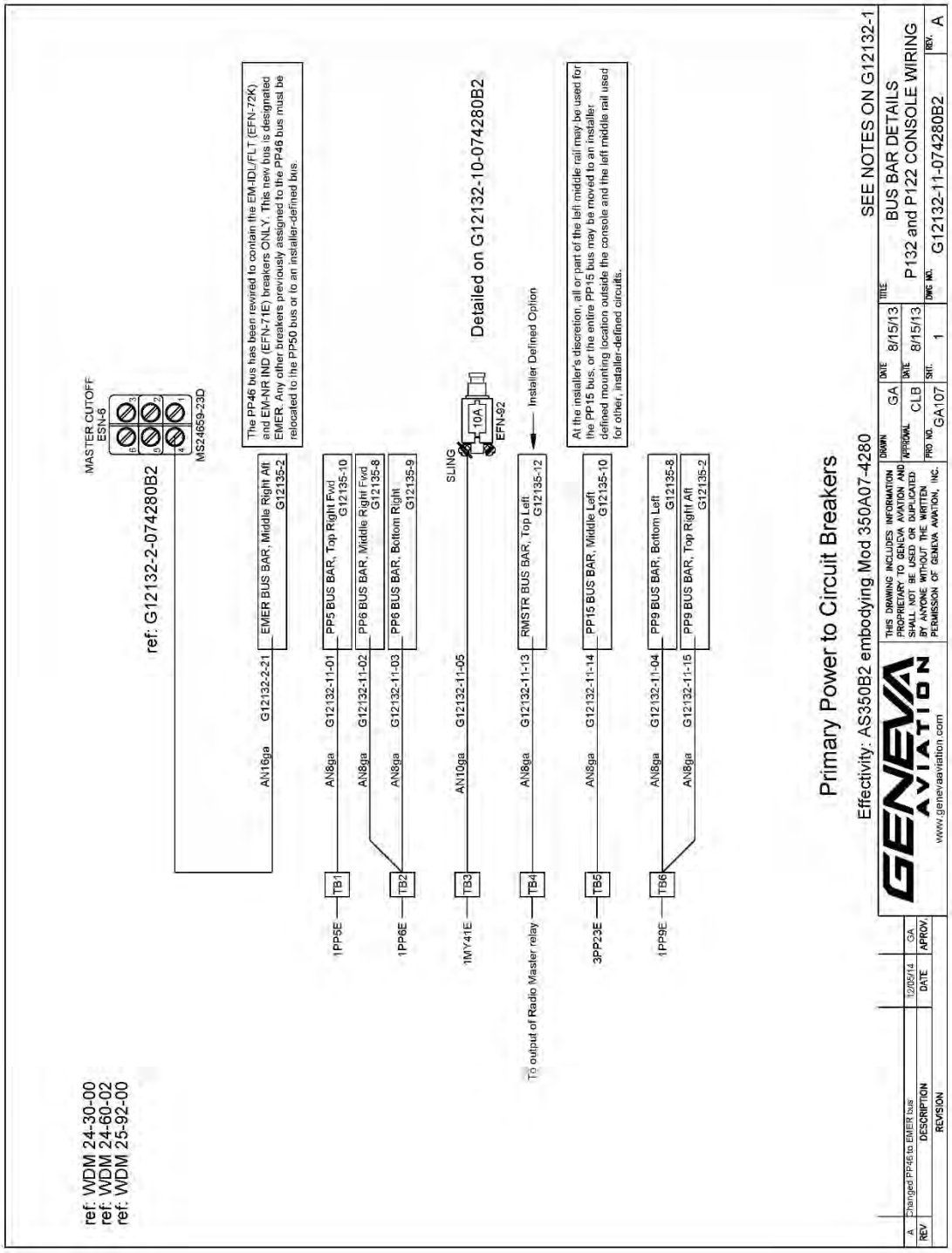

Figure 192: Bus Bar Details (G12132-11-074280B2 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

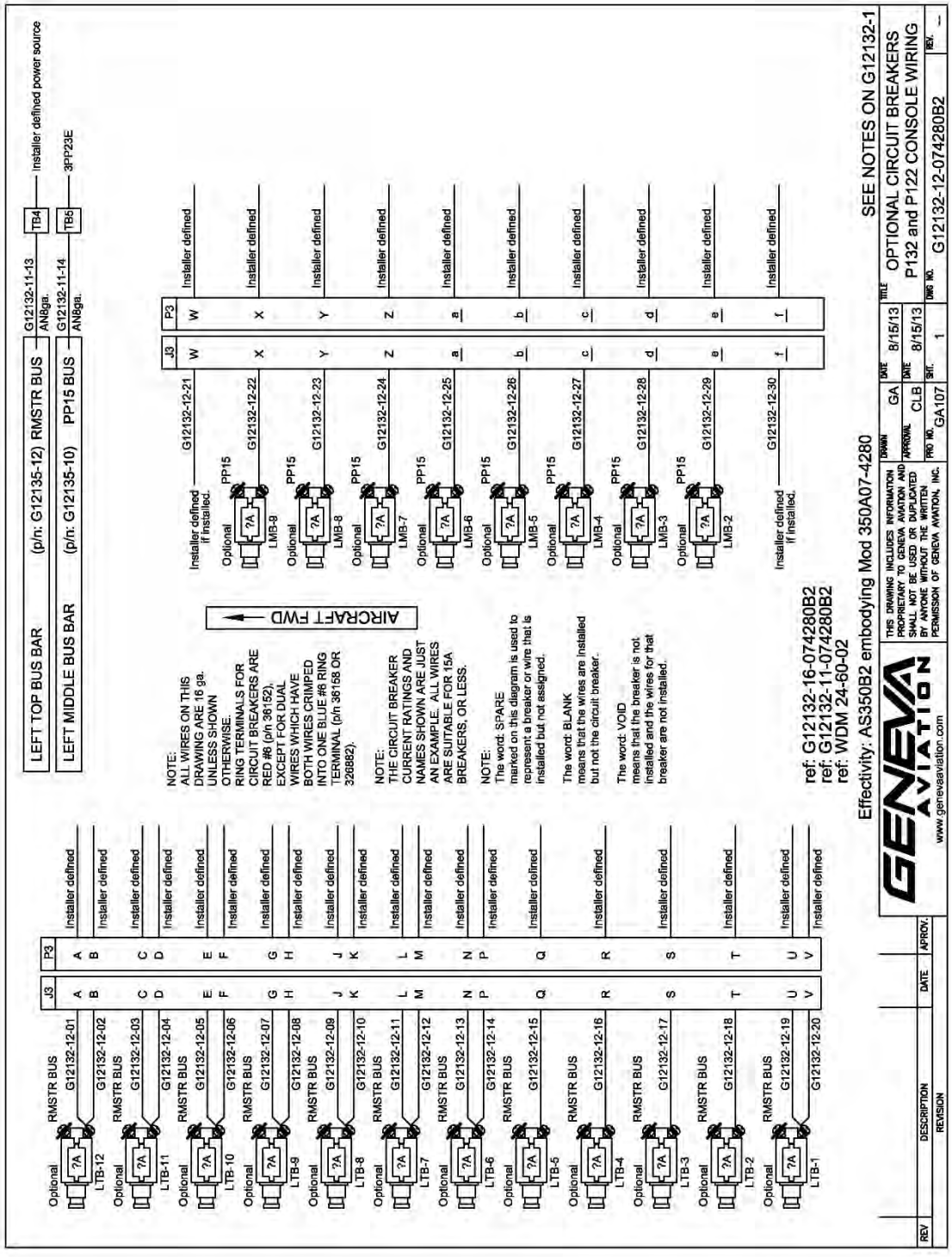

Figure 193: Optional Circuit Breakers (G12132-12-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

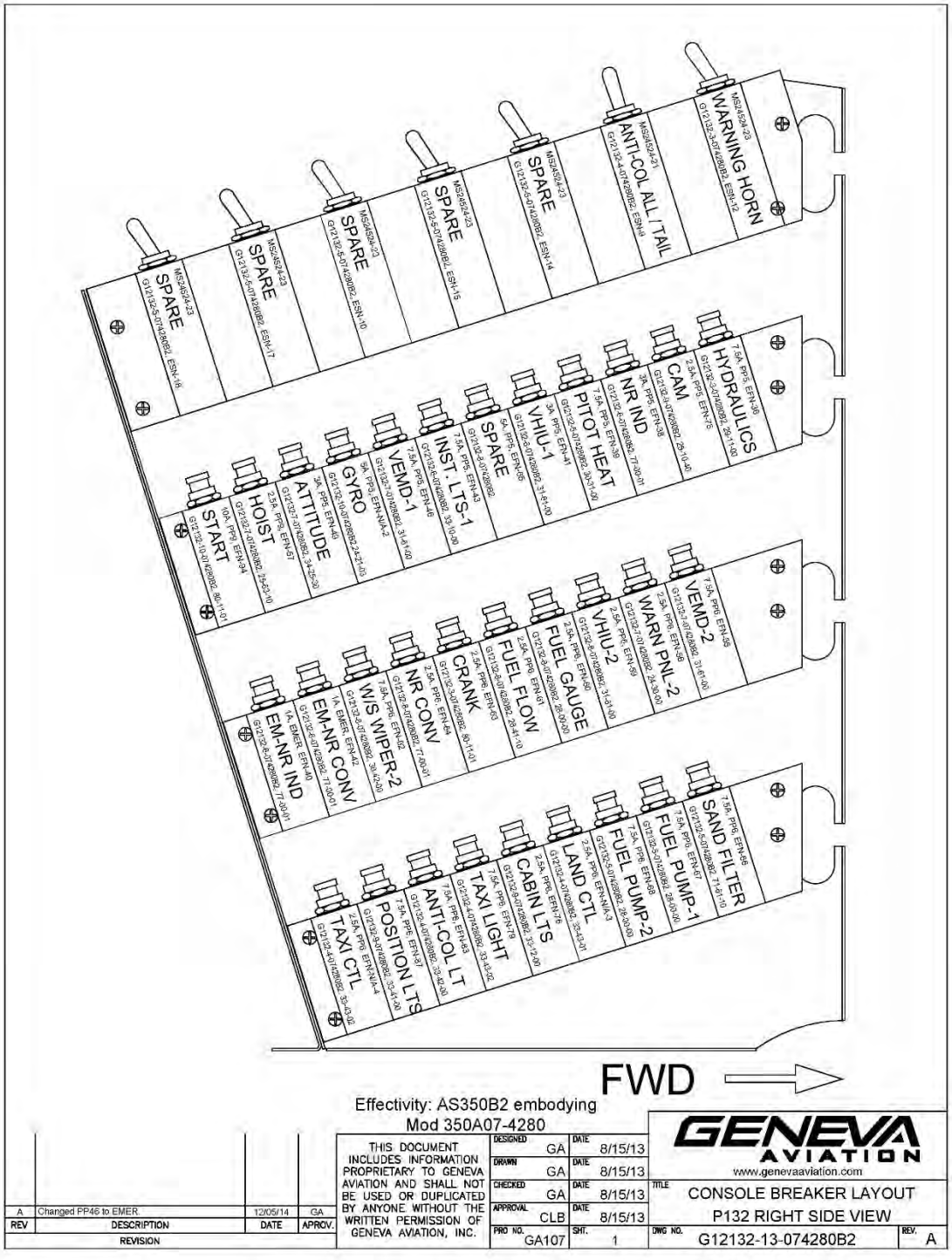

Figure 194: P132 Console RH Side CB Layout (G12132-13-074280B2 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

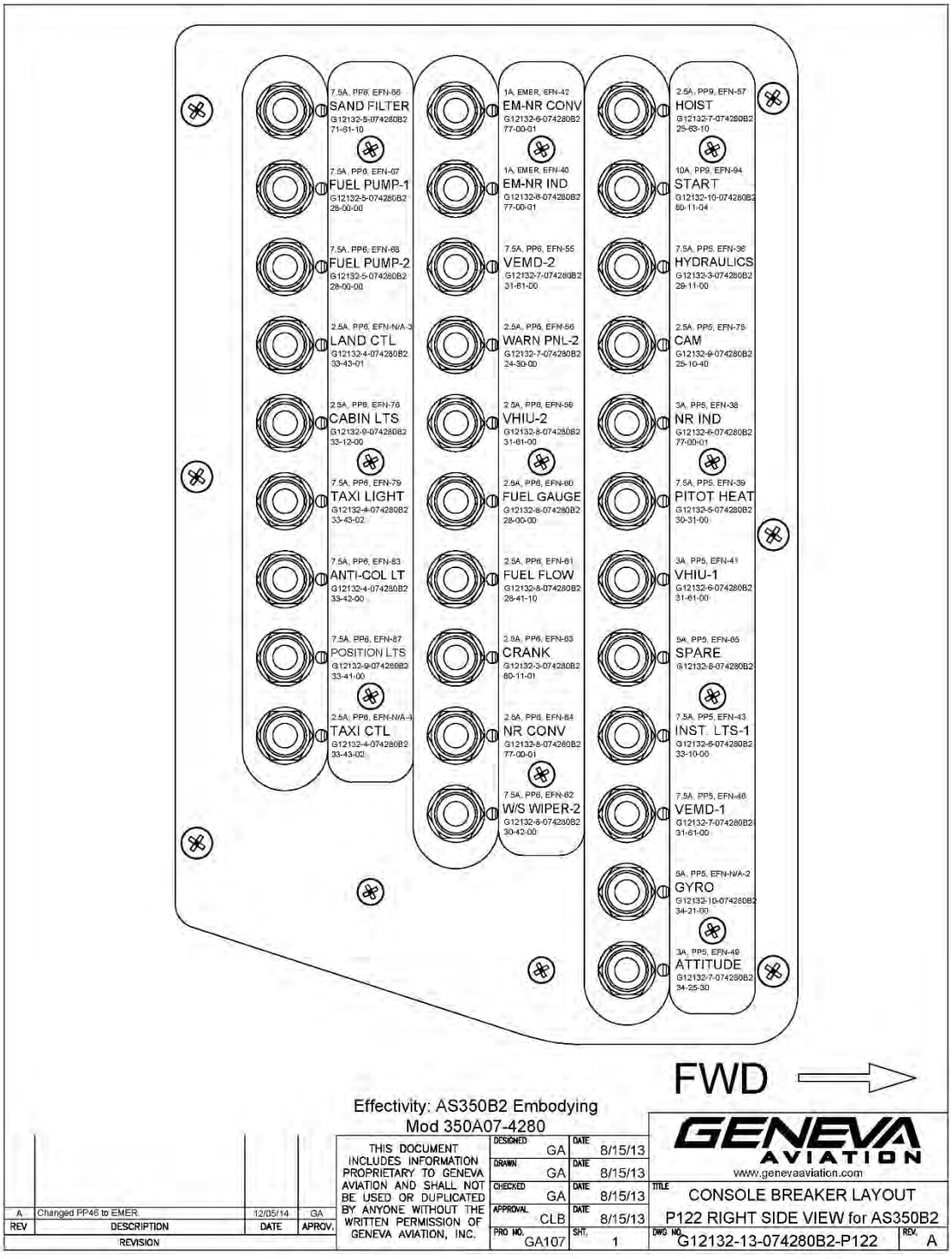

Figure 195: P122 Console RH Side CB Layout (G12132-13-074280B2-P122 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

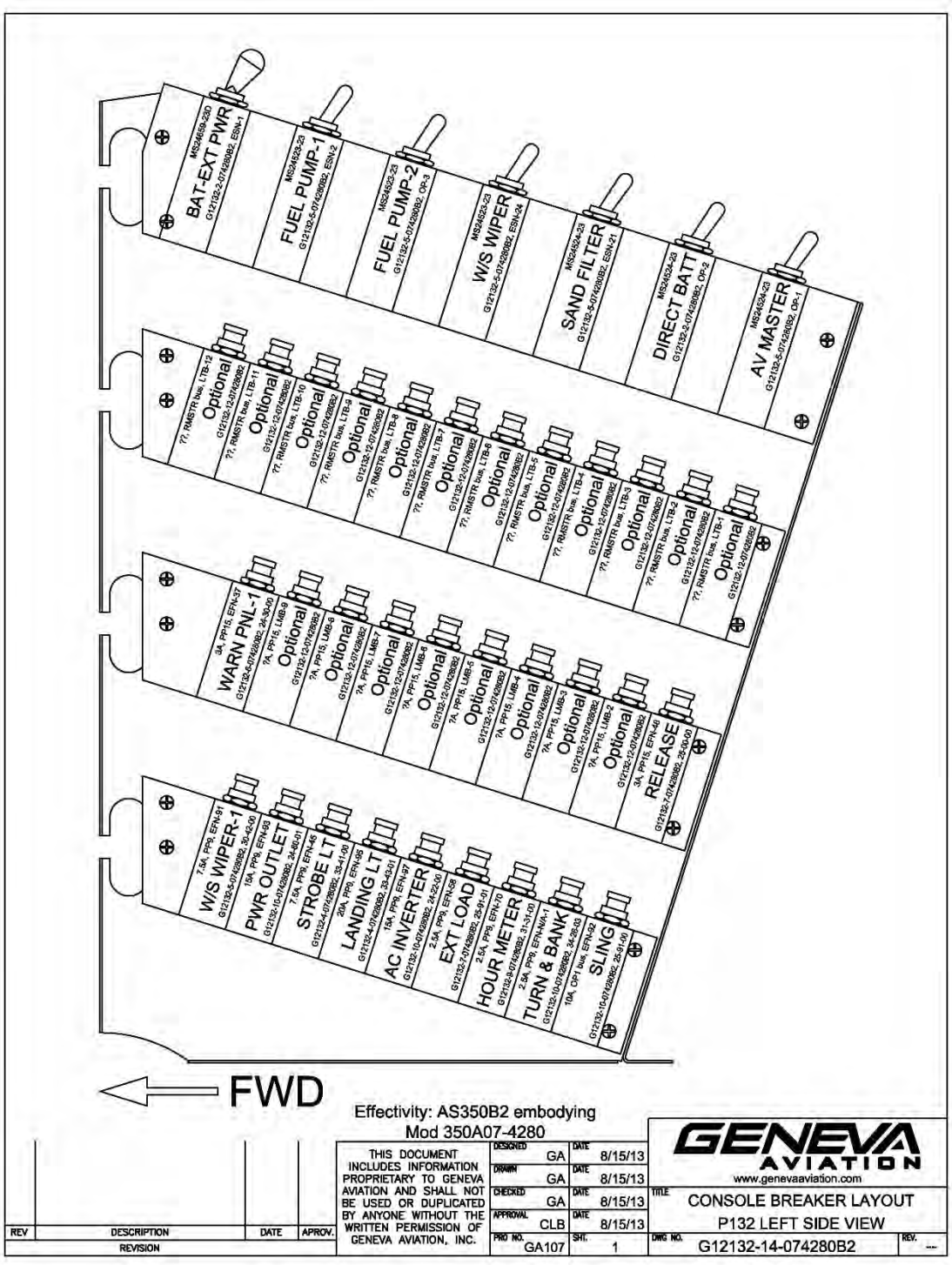

Figure 196: P132 Console LH Side CB Layout (G12132-14-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

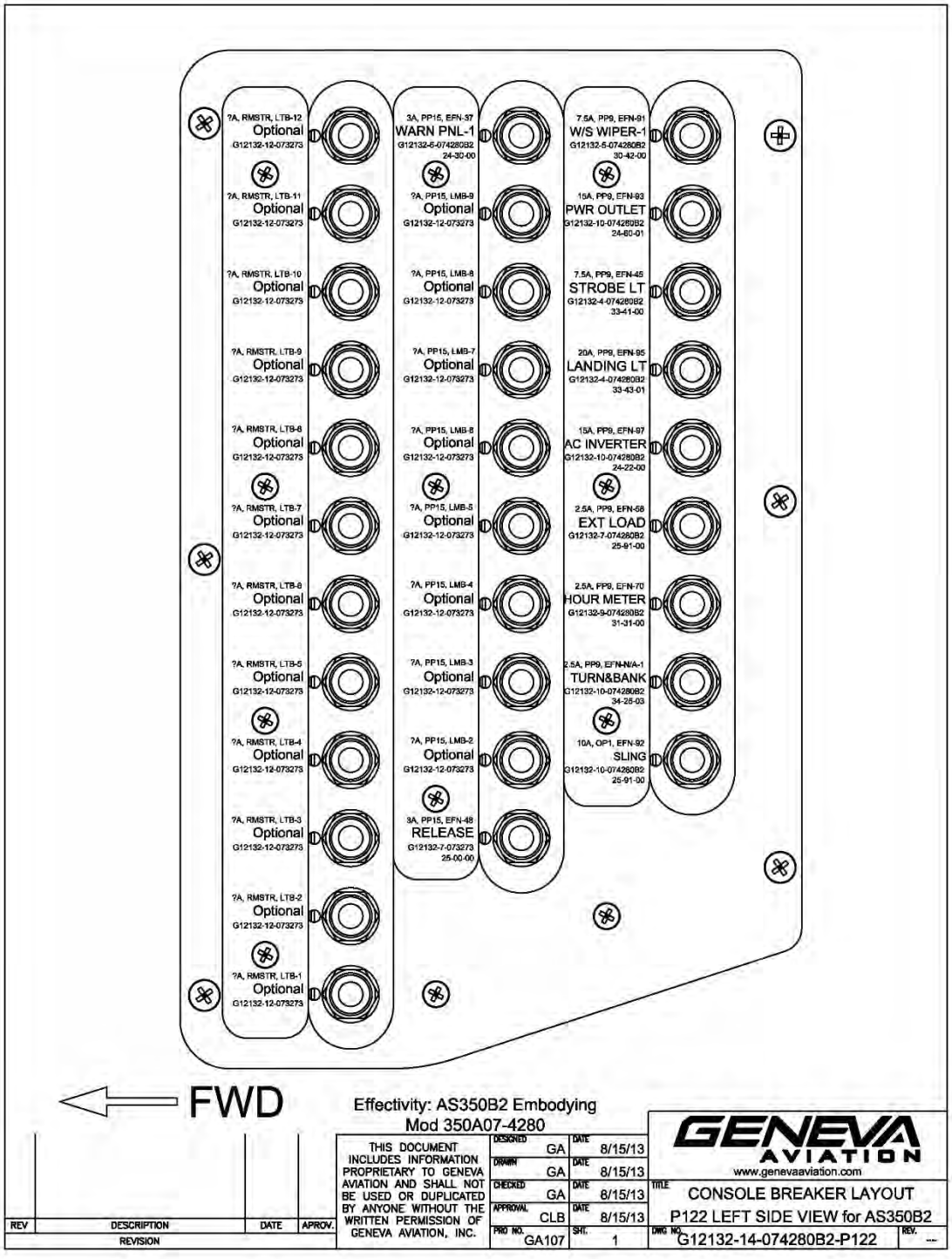

Figure 197: P132 Console LH Side CB Layout (G12132-14-074280B2-P122 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

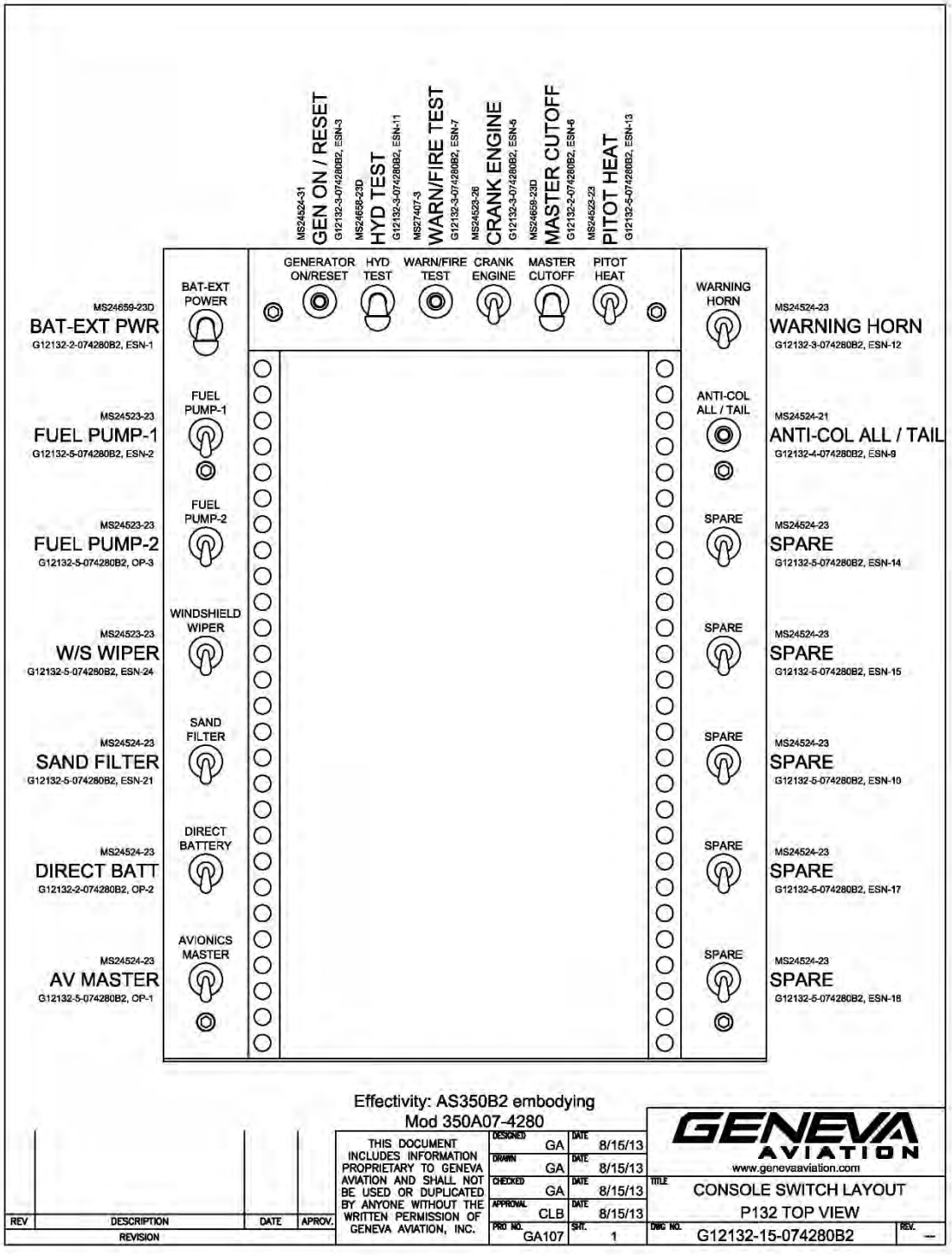

Figure 198: P132 Console Switch Layout (G12132-15-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

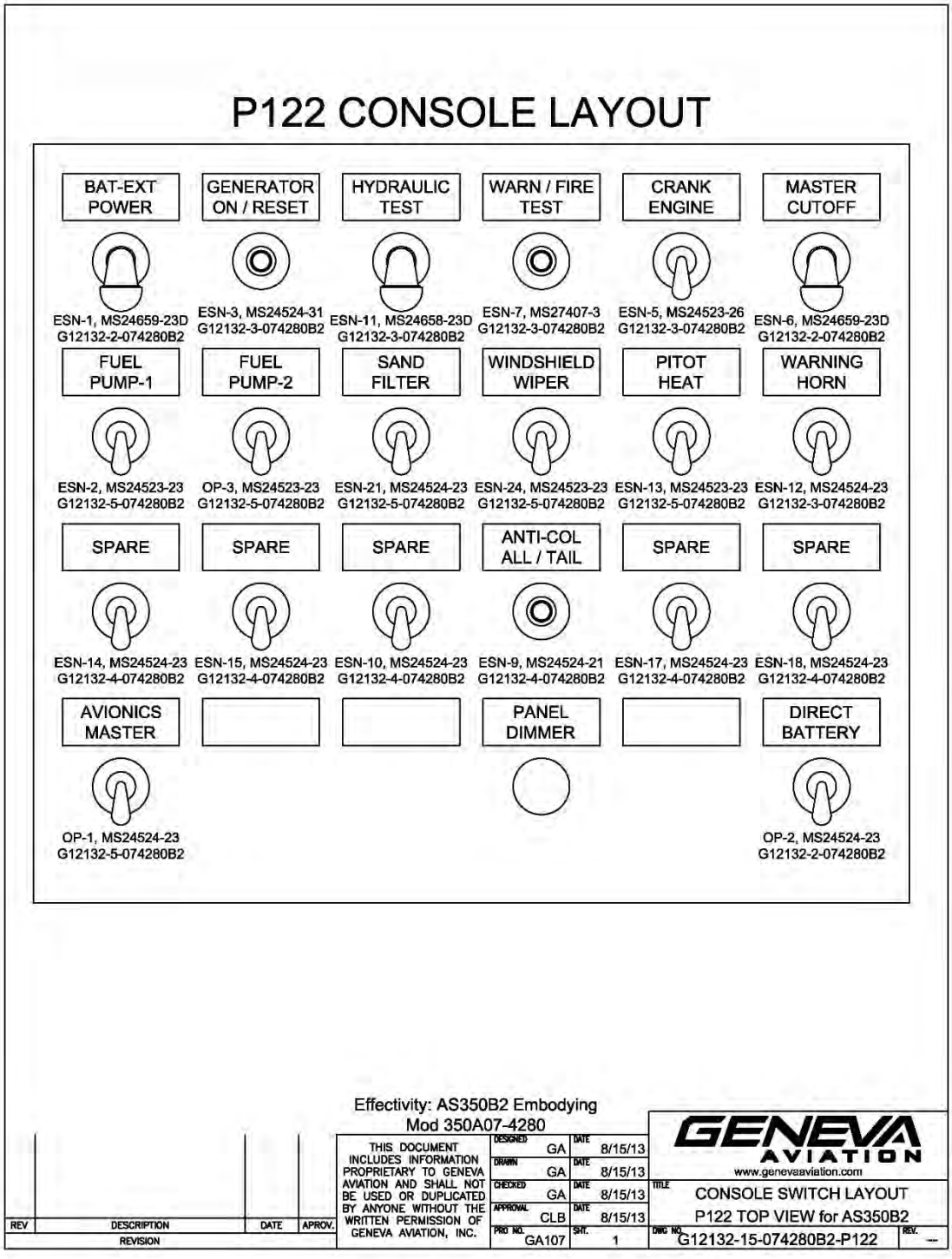

Figure 199: P122 Console Switch Layout (G12132-15-074280B2-P122 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

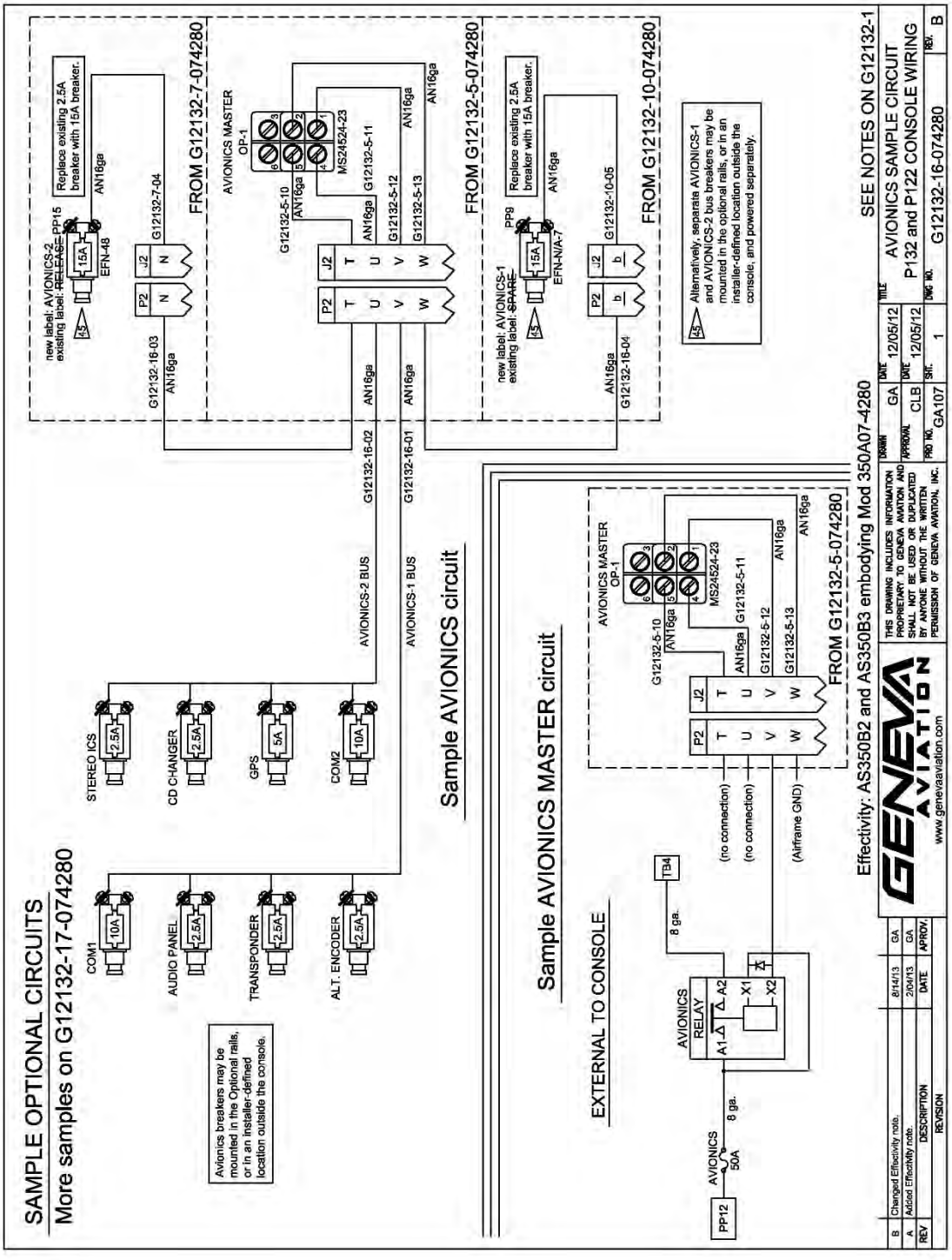

Figure 200: Console Avionics Sample Circuit (G12132-16-074280 Rev B)
Effectivity: AS350-B2 & B3e AIRCRAFT POST MOD 350A07-4280.

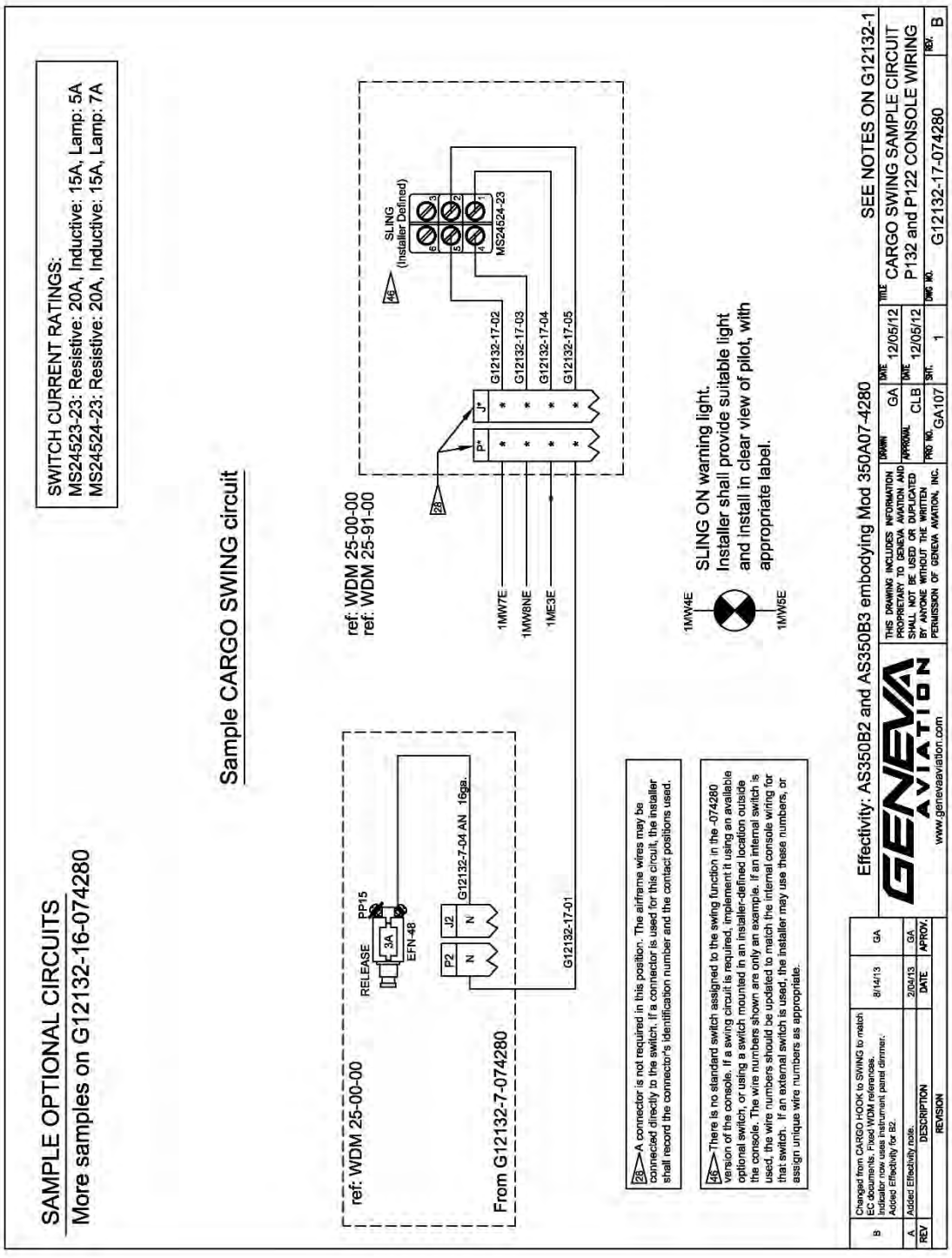

Figure 201: Cargo Hook Sample Circuit (G12132-17-074280 Rev B)
Effectivity: AS350-B2 &B3e AIRCRAFT POST MOD 350A07-4280.

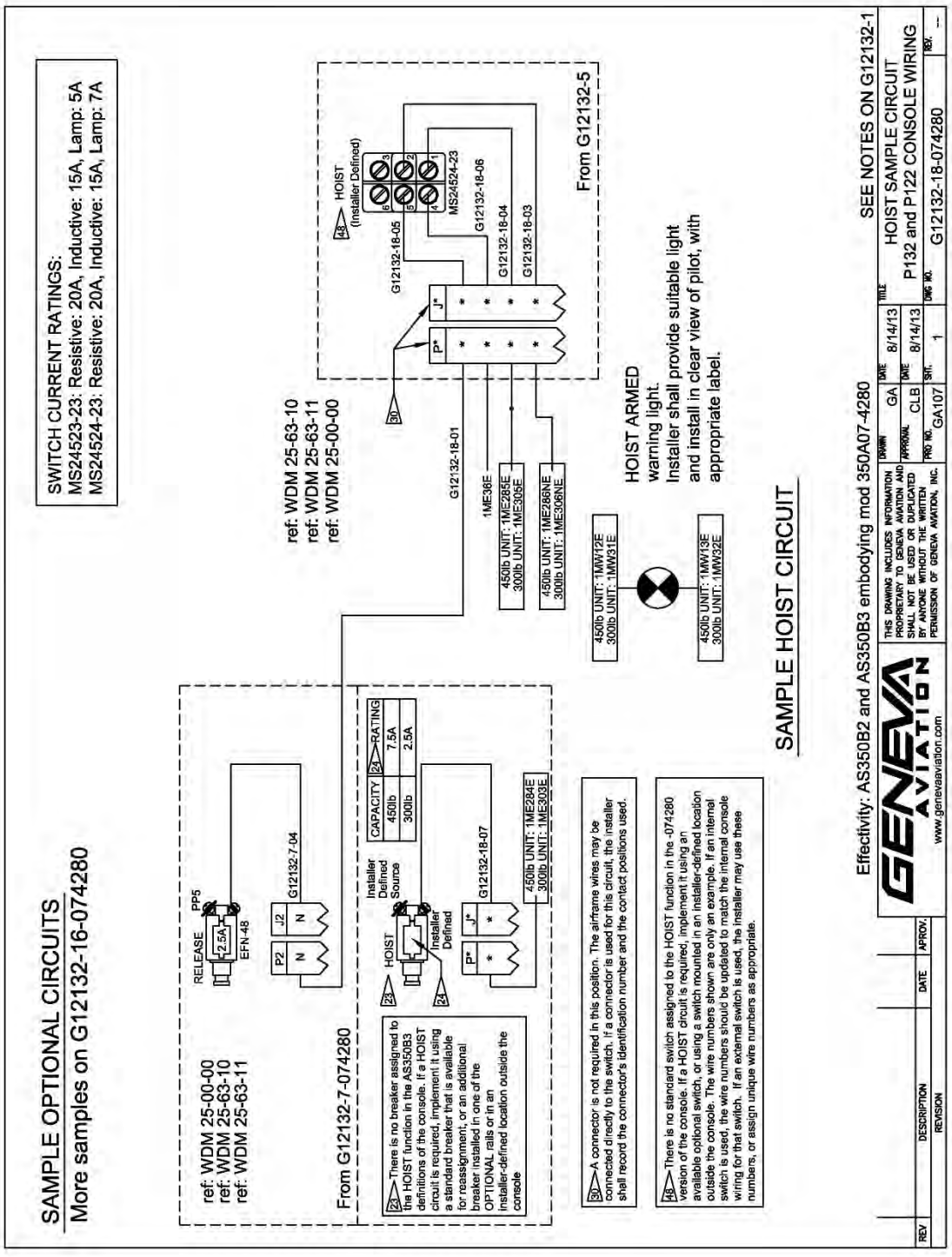

Figure 202: Hoist Sample Circuit (G12132-18-074280 Rev --)
Effectivity: AS350-B2 &B3e AIRCRAFT POST MOD 350A07-4280.

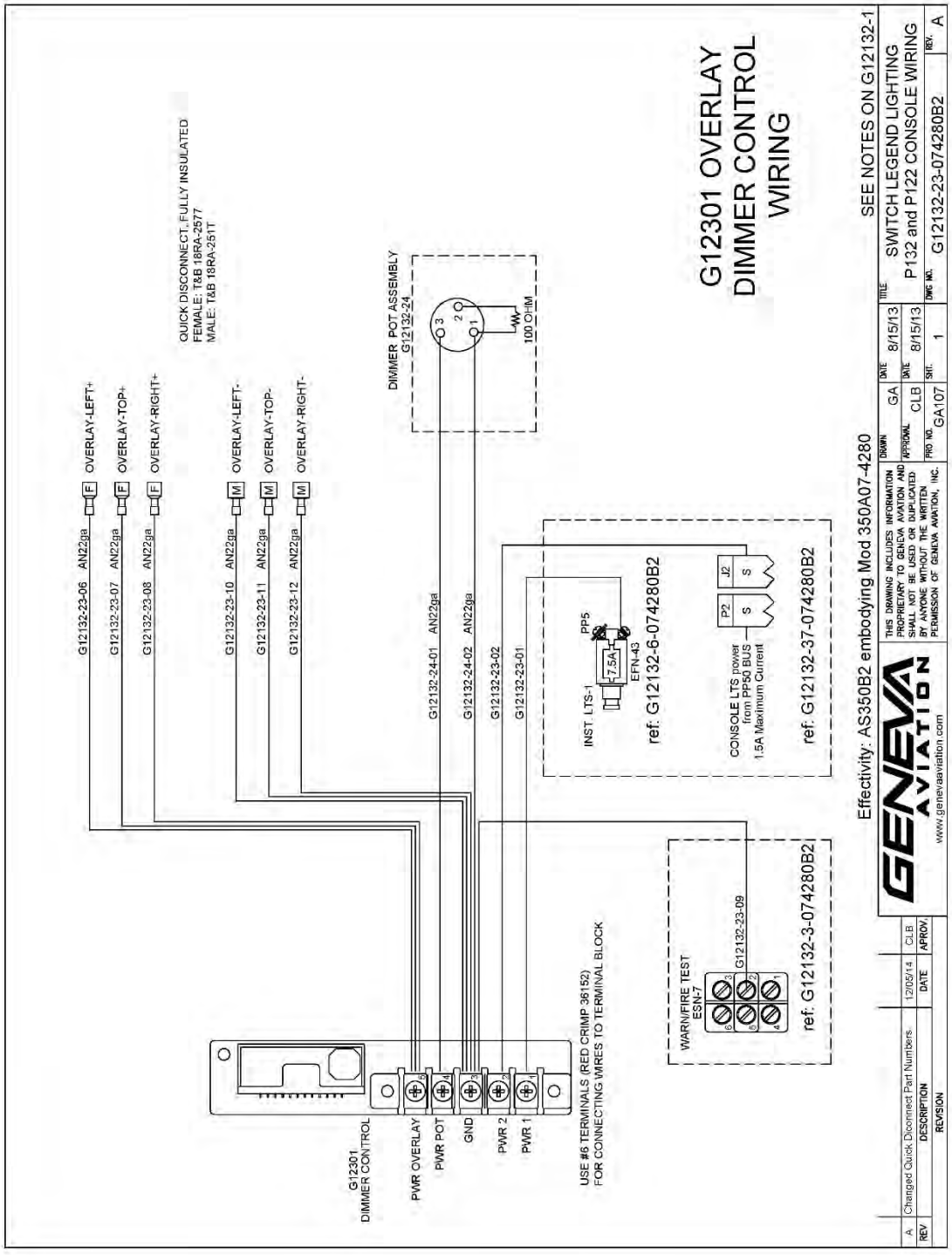

Figure 203: Switch Legend Lighting (G12132-23-074280B2 Rev A)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

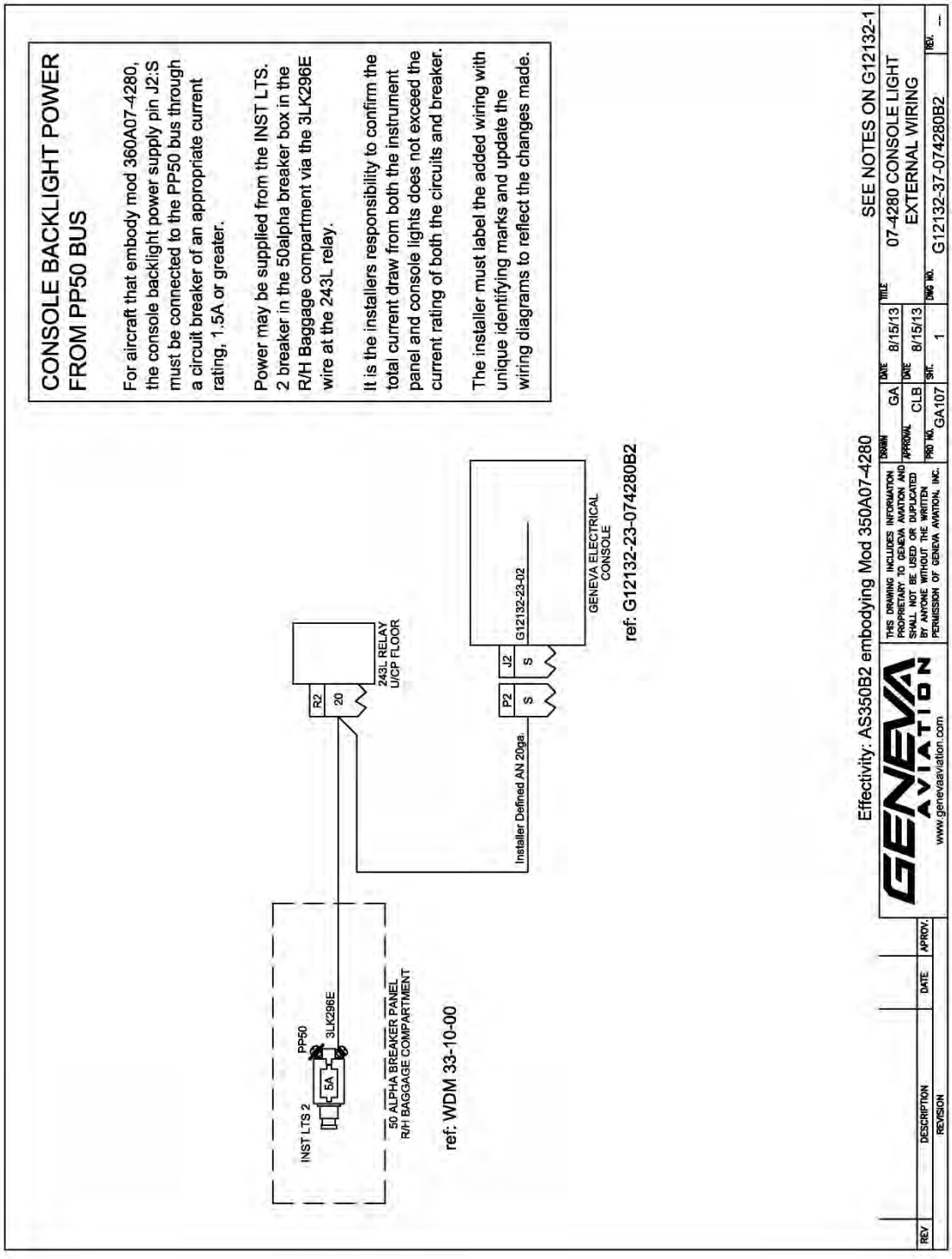

Figure 204: Console Light External Wiring (G12132-37-074280B2 Rev --)
Effectivity: AS350-B2 AIRCRAFT POST MOD 350A07-4280.

6.12 Wiring Diagrams Post-MOD AS350A07-4280

6.12.1 These wiring diagrams detail the circuitry inside the P122 and P132 consoles for AS350-B3e aircraft Post Mod 350A07-4280.

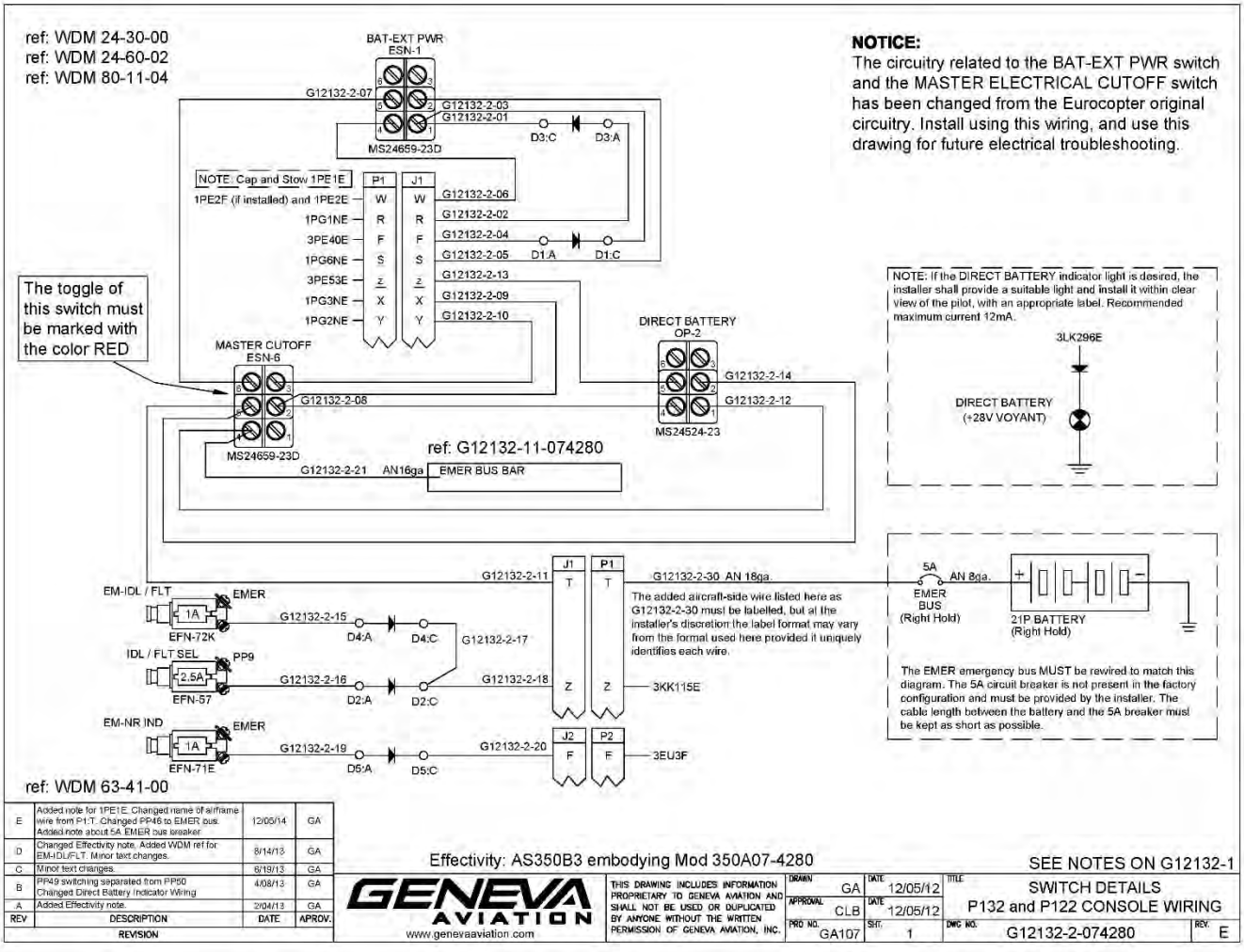

Figure 205: Switch Details (G12132-2-074280 Rev E)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

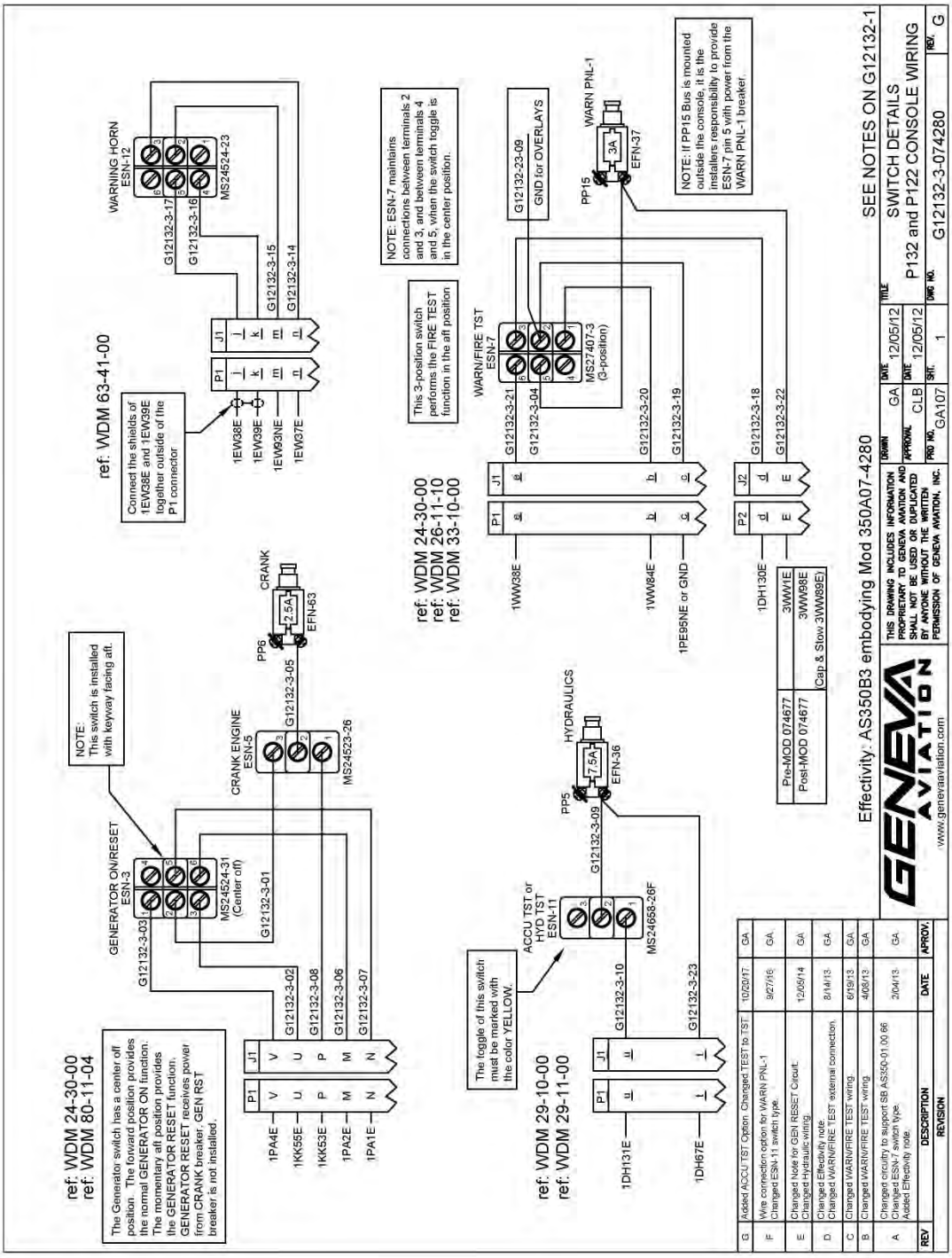

Figure 206: Switch Details (G12132-3-074280 Rev G)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

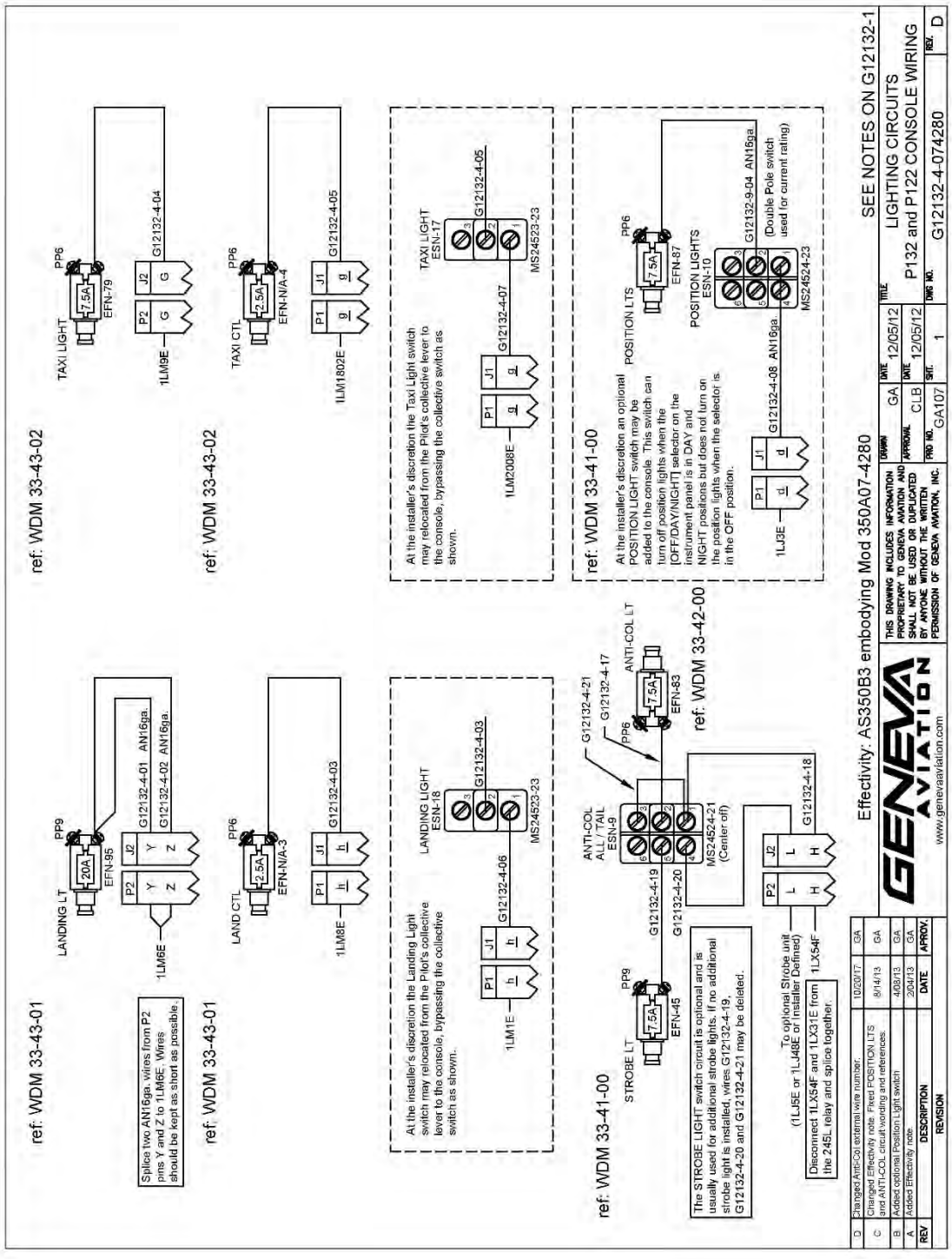

Figure 207: Lighting Circuits (G12132-4-074280 Rev D)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

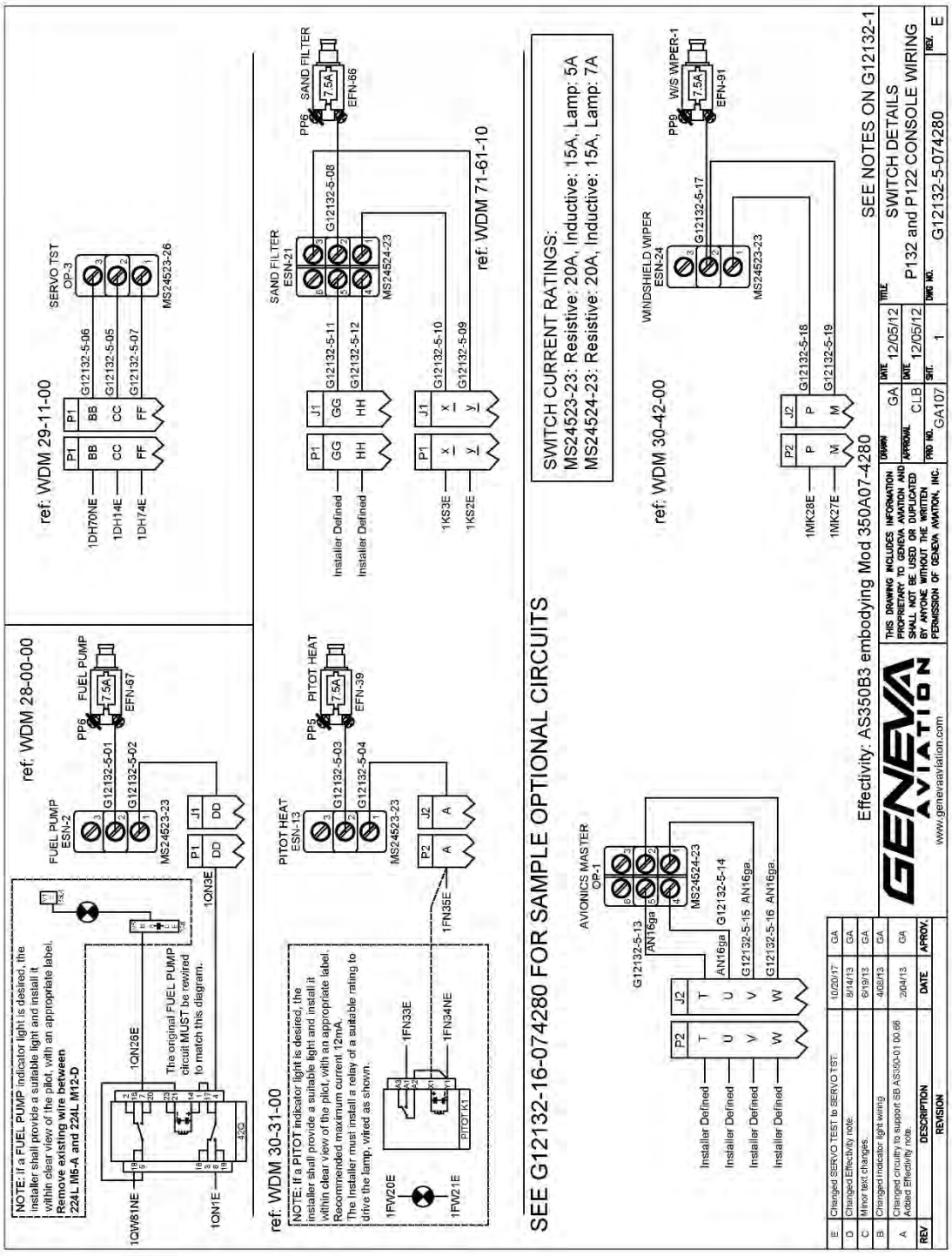

Figure 208: Switch Details (G12132-5-074280 Rev E)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

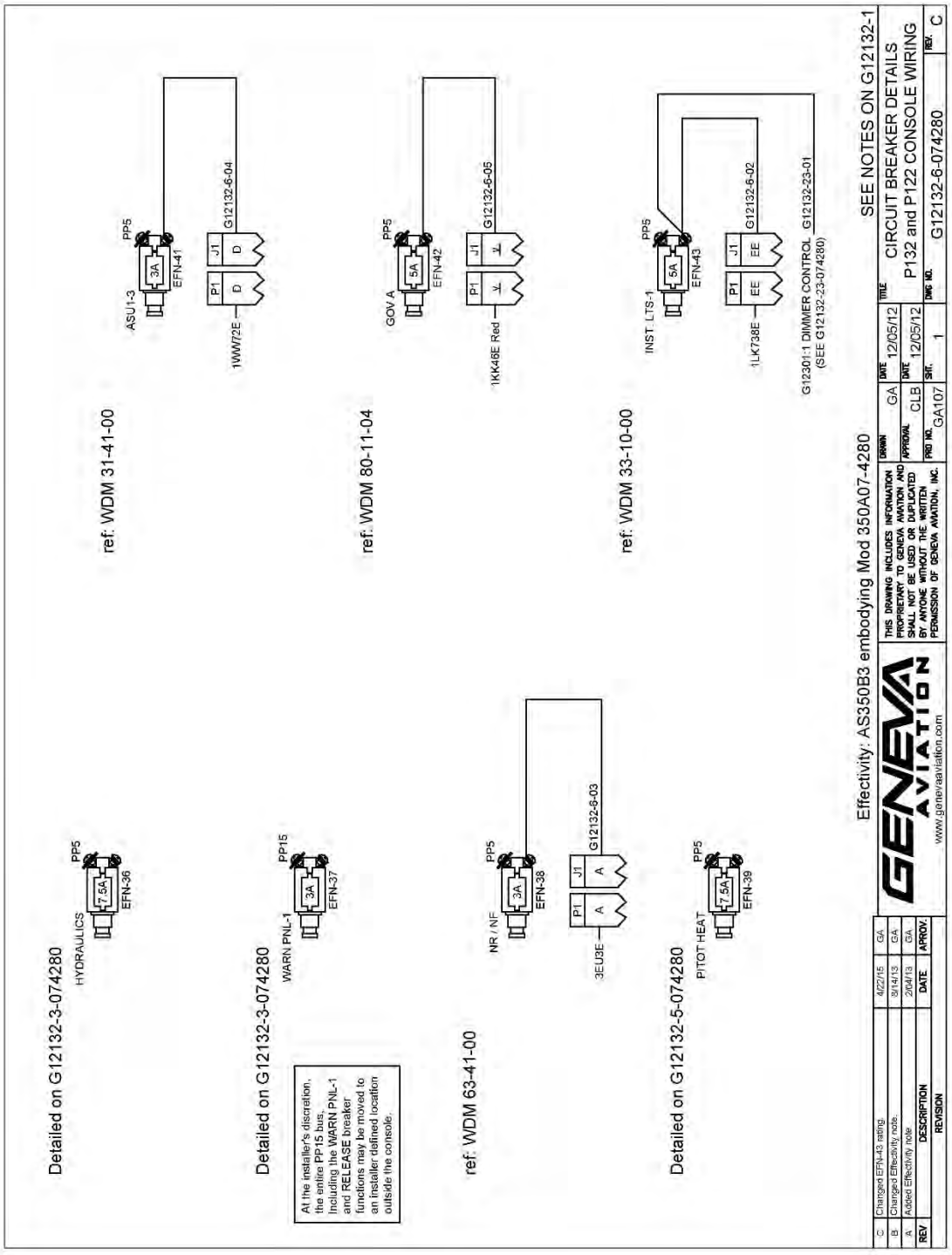

Figure 209: Circuit Breaker Details (G12132-6-074280 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

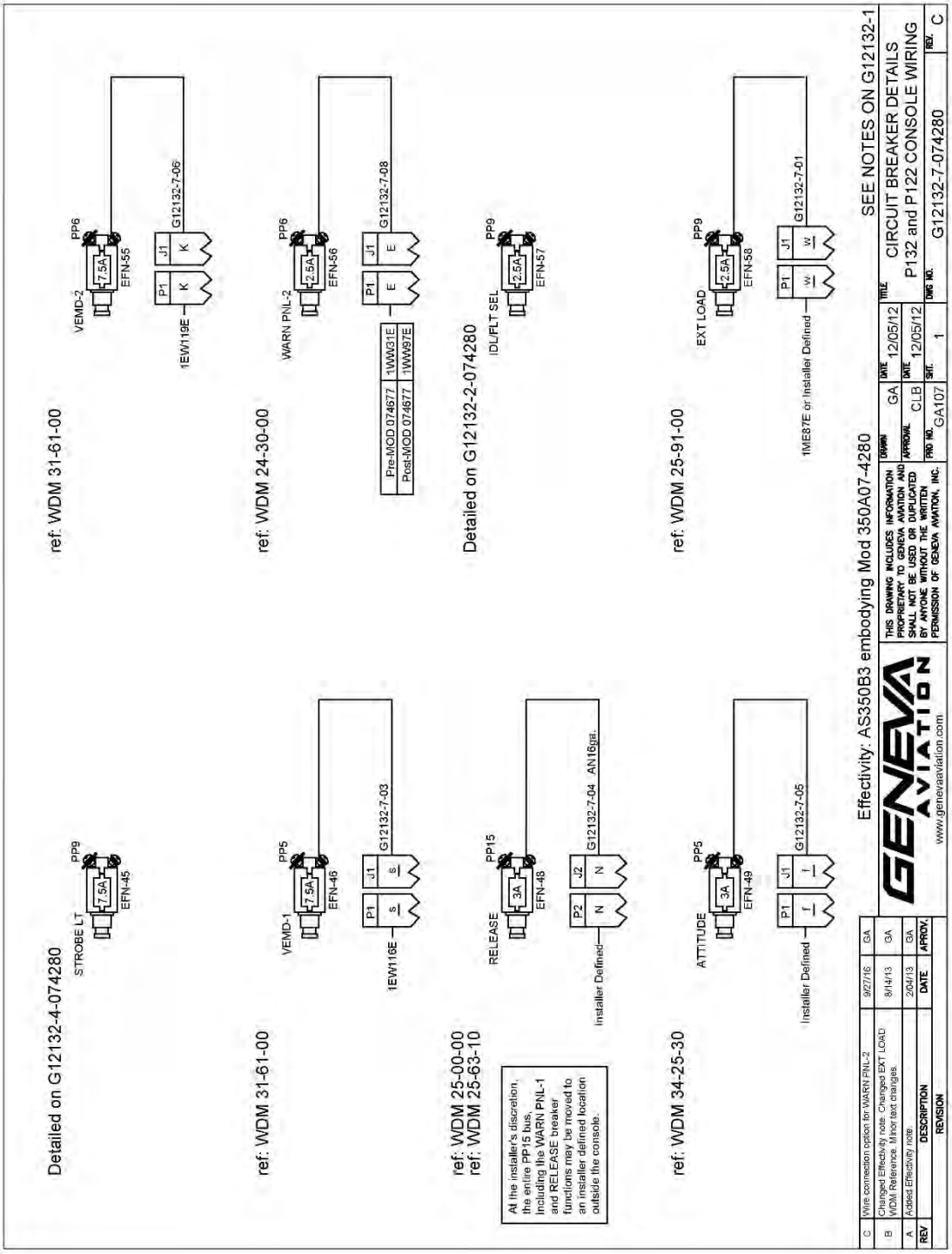

Figure 210: Circuit Breaker Details (G12132-7-074280 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

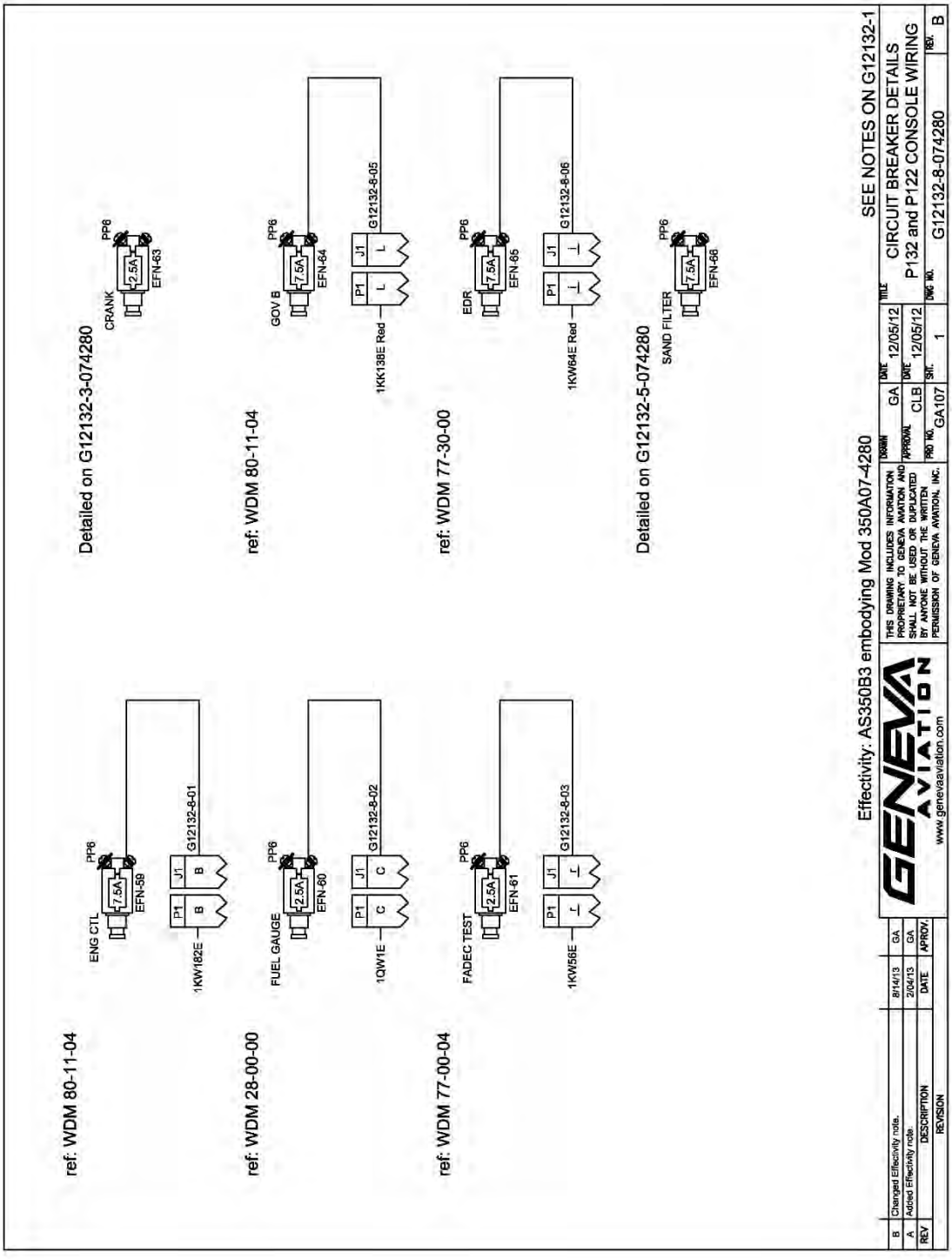

Figure 211: Circuit Breaker Details (G12132-8-074280 Rev B)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

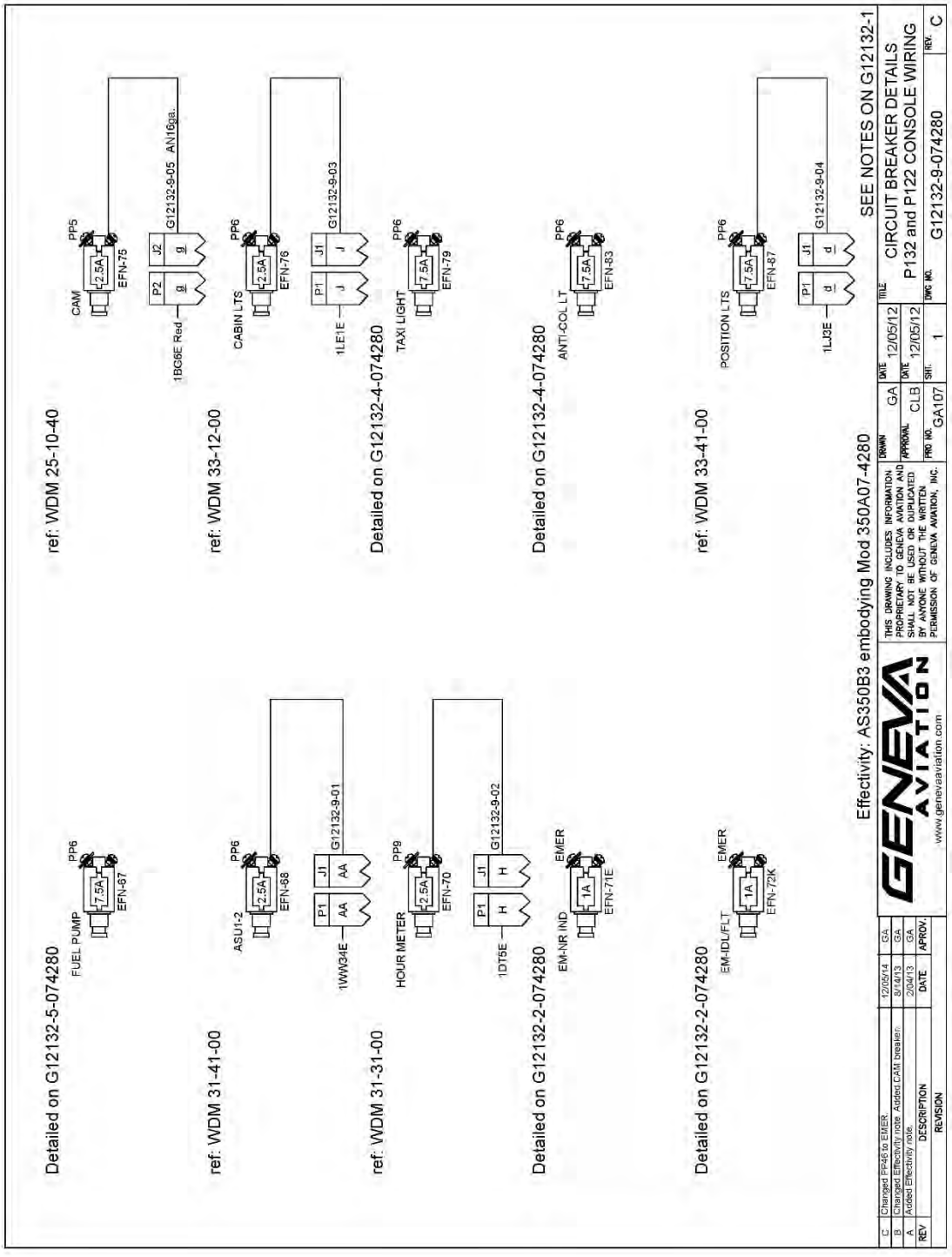

Figure 212: Circuit Breaker Details (G12132-9-074280 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

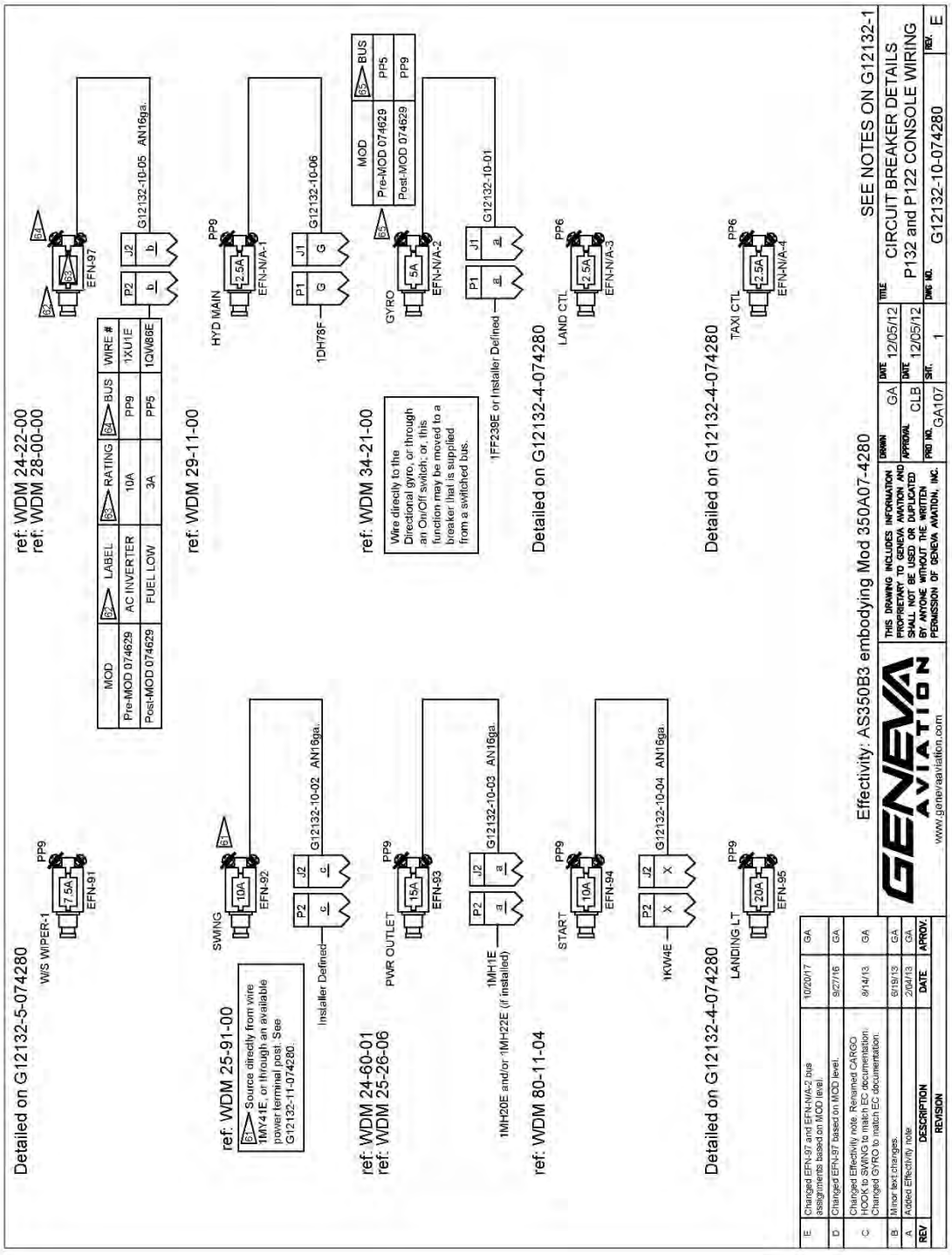

Figure 213: Circuit Breaker Details (G12132-10-074280 Rev E)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

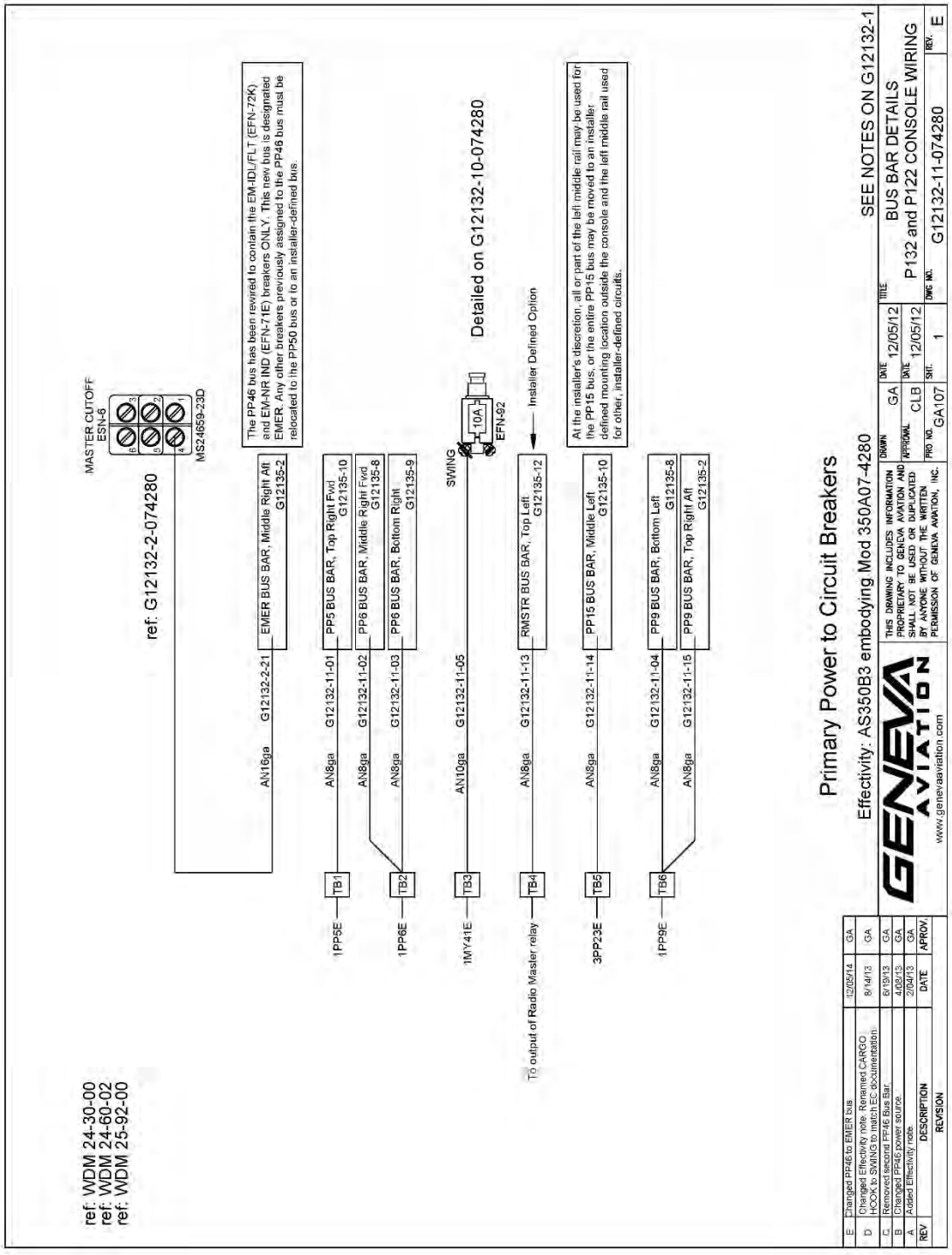

Figure 214: Bus Bar Details (G12132-11-074280 Rev E)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

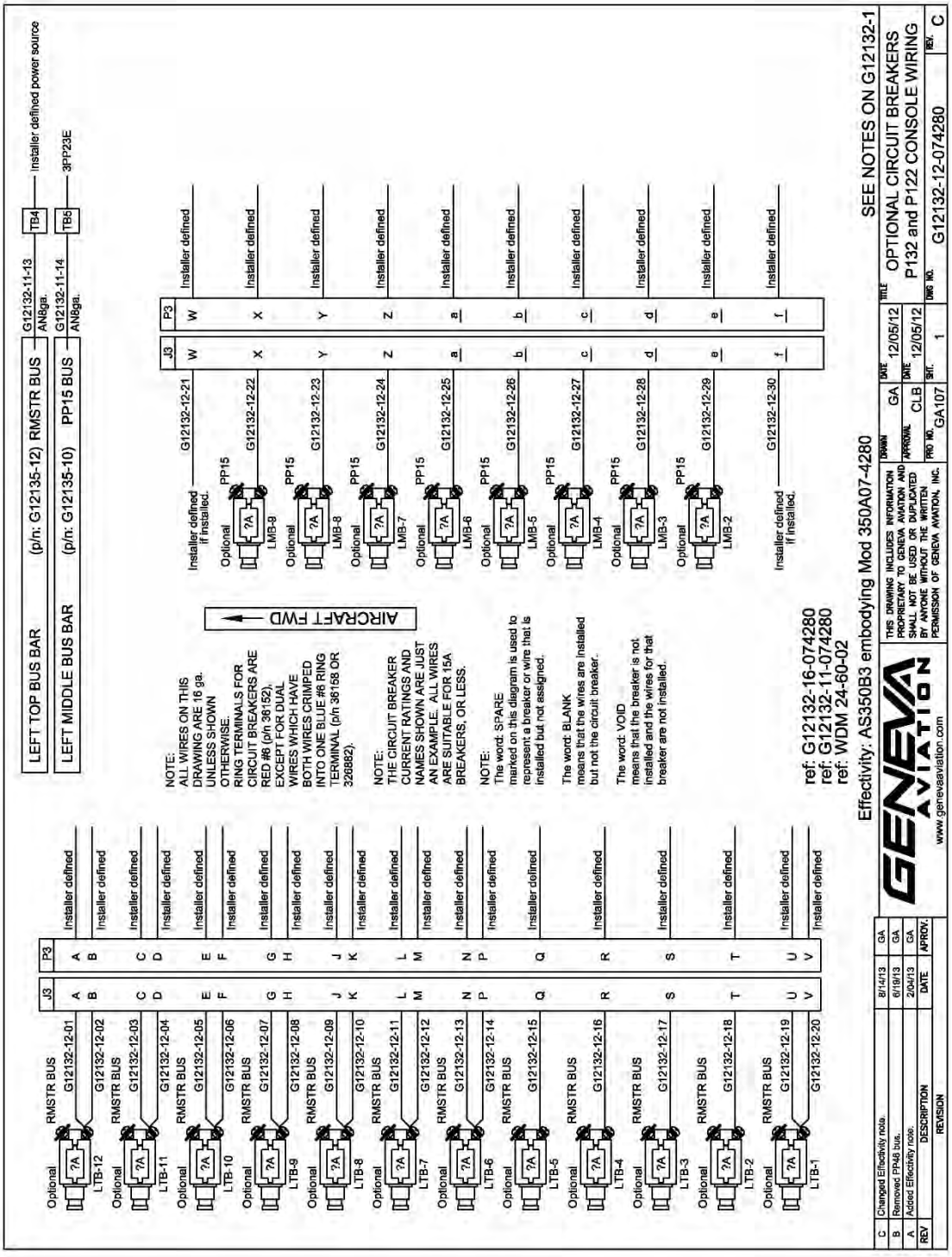

Figure 215: Optional Circuit Breakers (G12132-12-074280 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

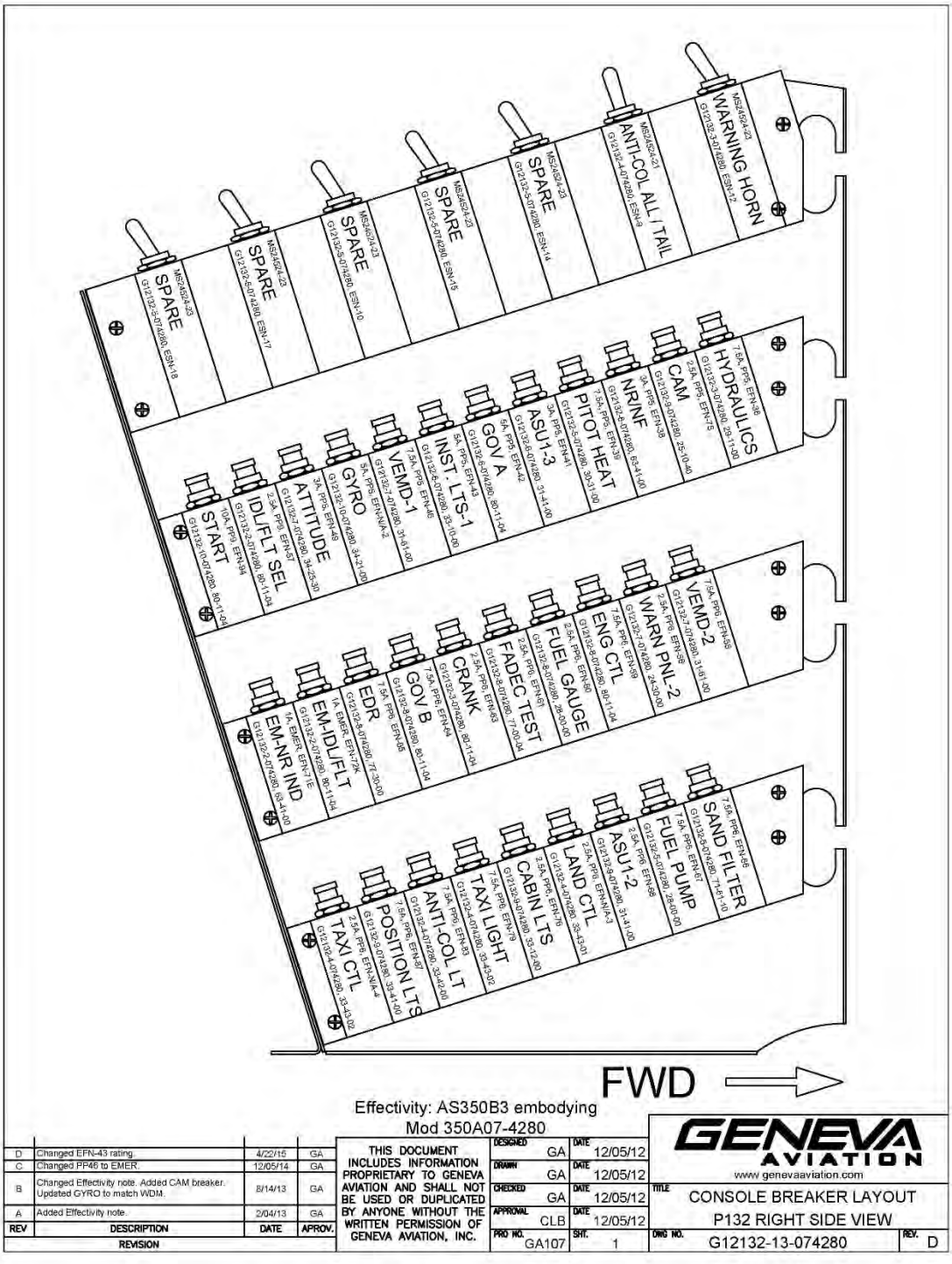

Figure 216: P132 Console RH Side CB Layout (G12132-13-074280 Rev D)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280 AND PRE-MOD 350A07-4629

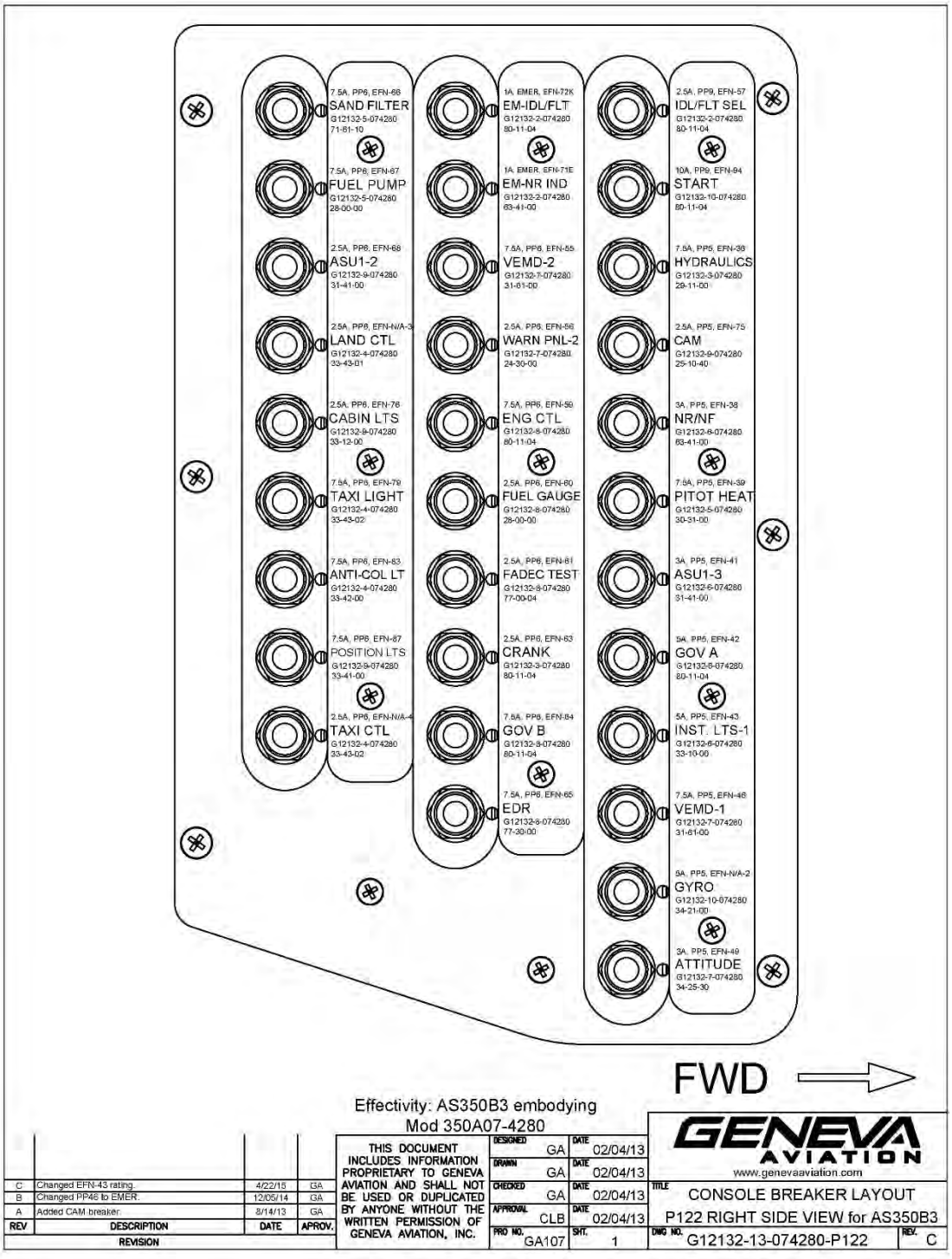

Figure 217: P122 Console RH Side CB Layout (G12132-13-074280-P122 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280 AND PRE-MOD 350A07-4629

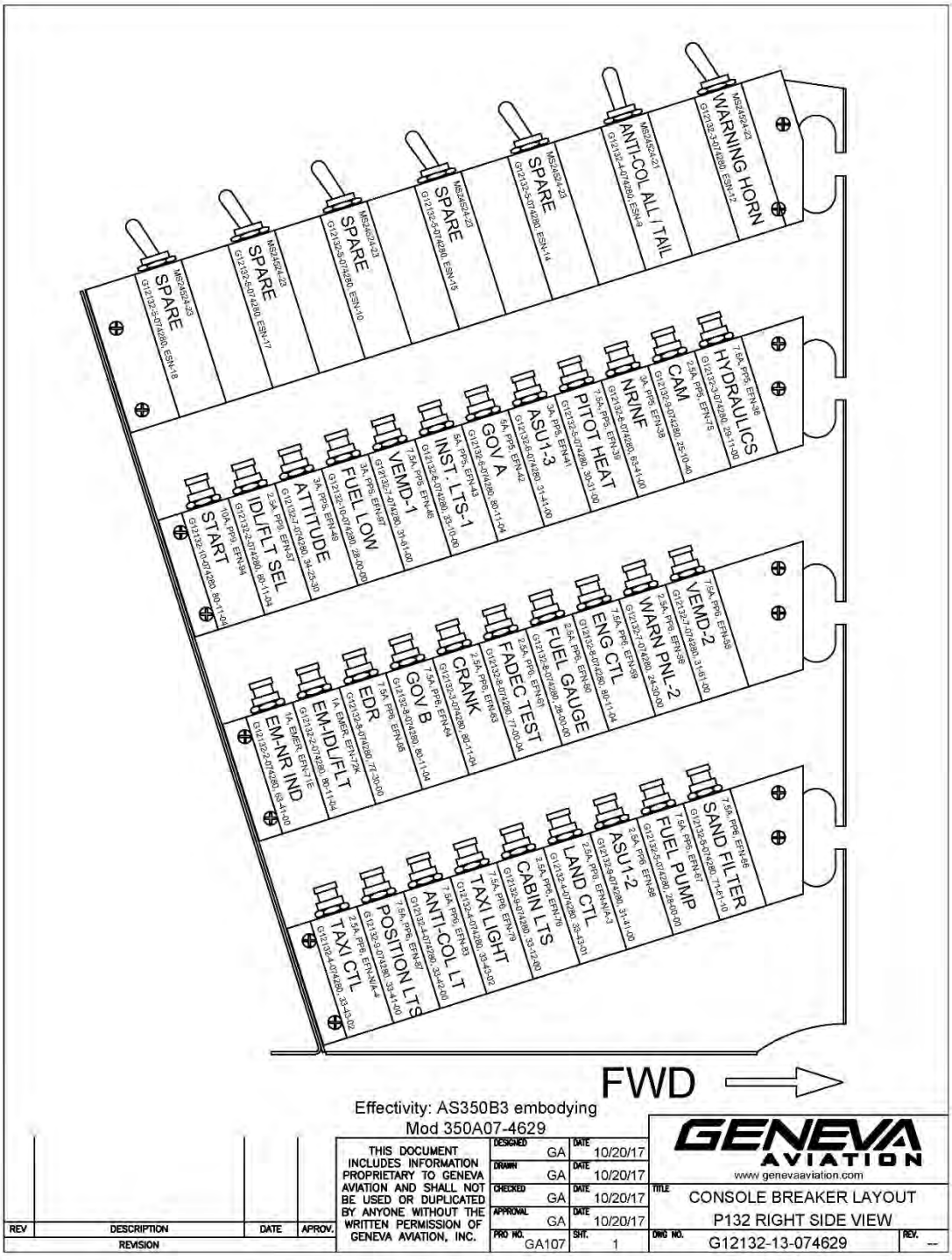

Figure 218: P132 Console RH Side CB Layout (G12132-13-074629 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4629

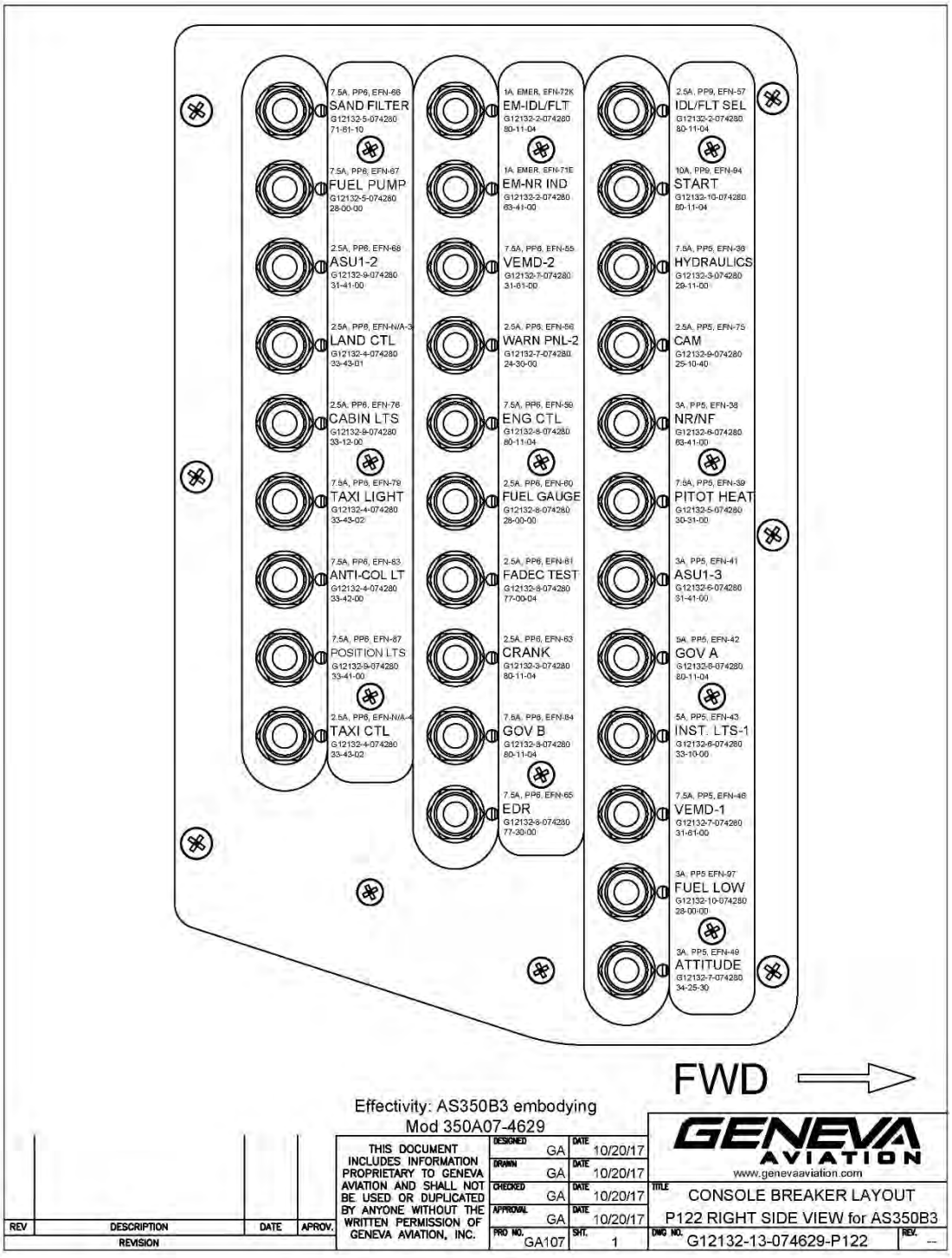

Figure 219: P122 Console RH Side CB Layout (G12132-13-074629-P122 Rev --)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4629

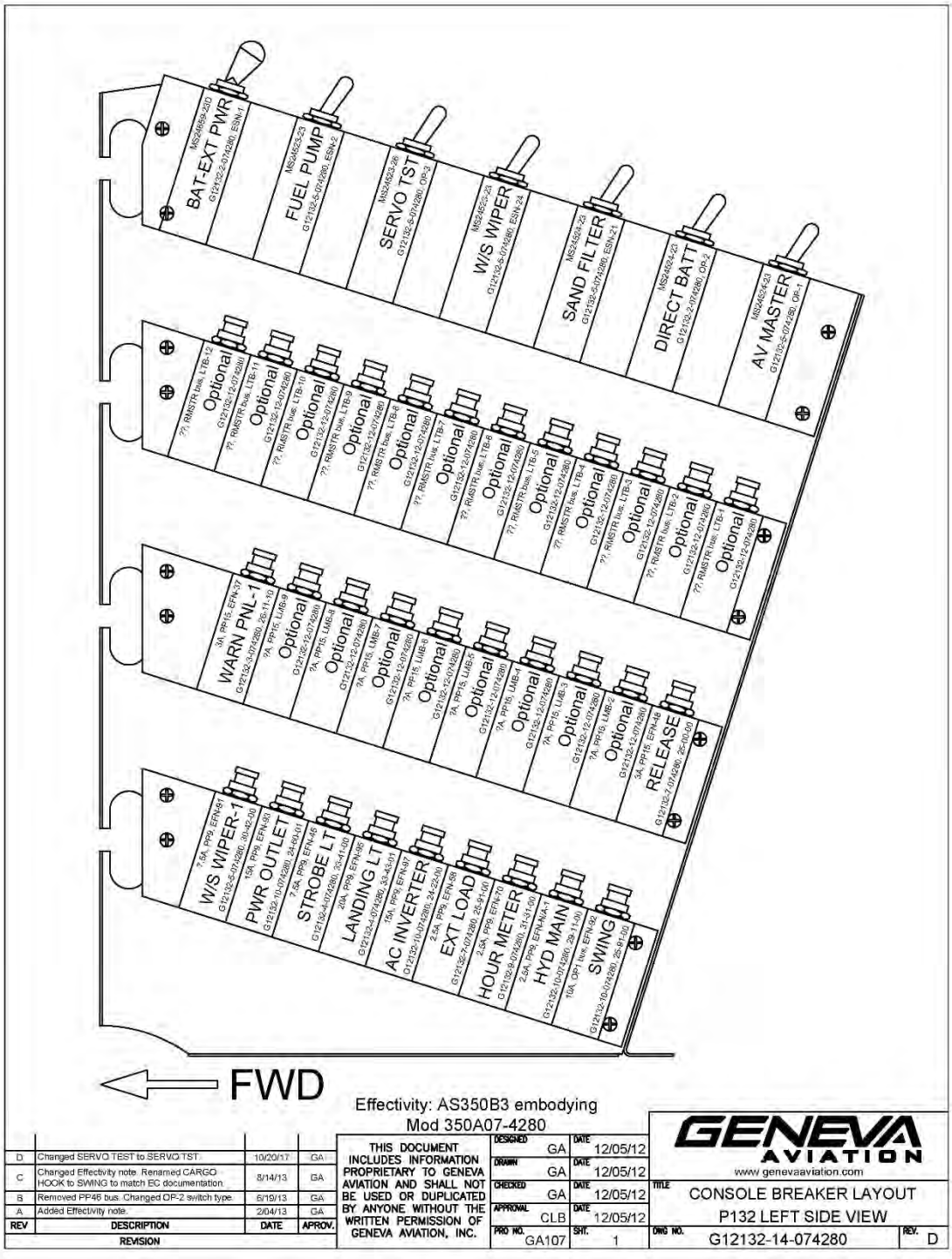

Figure 220: P132 Console LH Side CB Layout (G12132-14-074280 Rev D)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280 AND PRE-MOD 350A07-4629

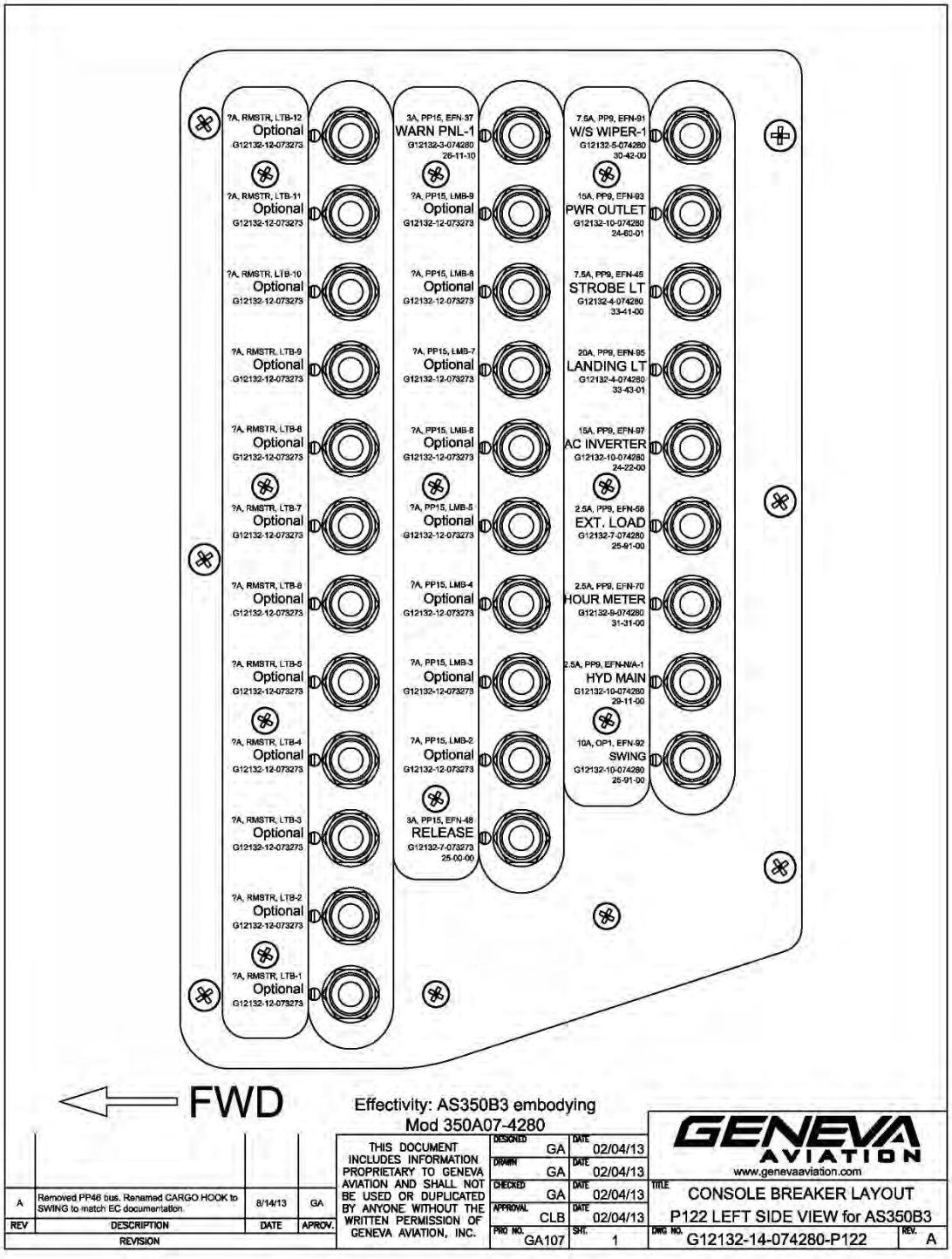

Figure 221: P132 Console LH Side CB Layout (G12132-14-074280-P122 Rev A)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280 AND PRE-MOD 350A07-4629

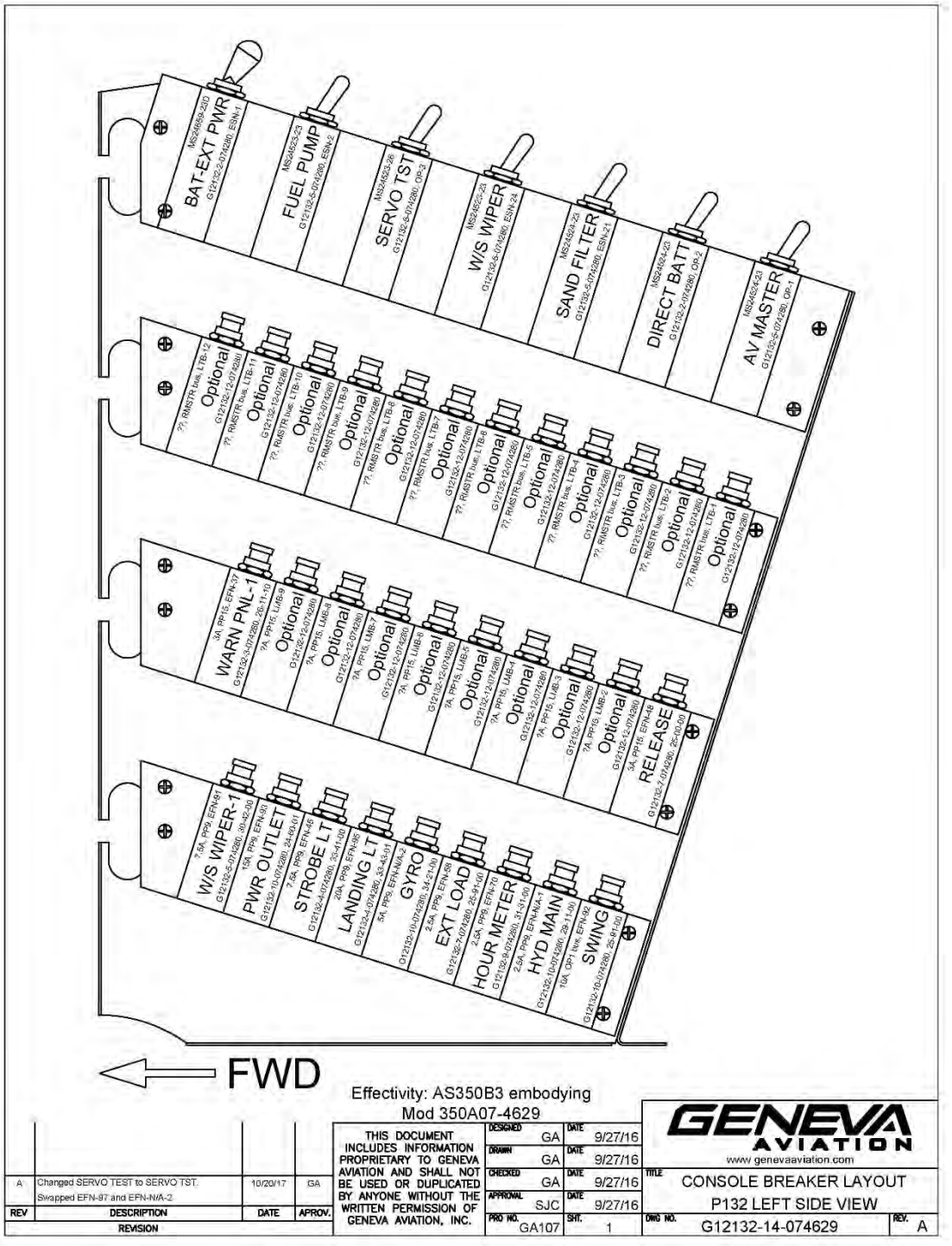

Figure 222: P132 Console LH Side CB Layout (G12132-14-074629 Rev A)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4629

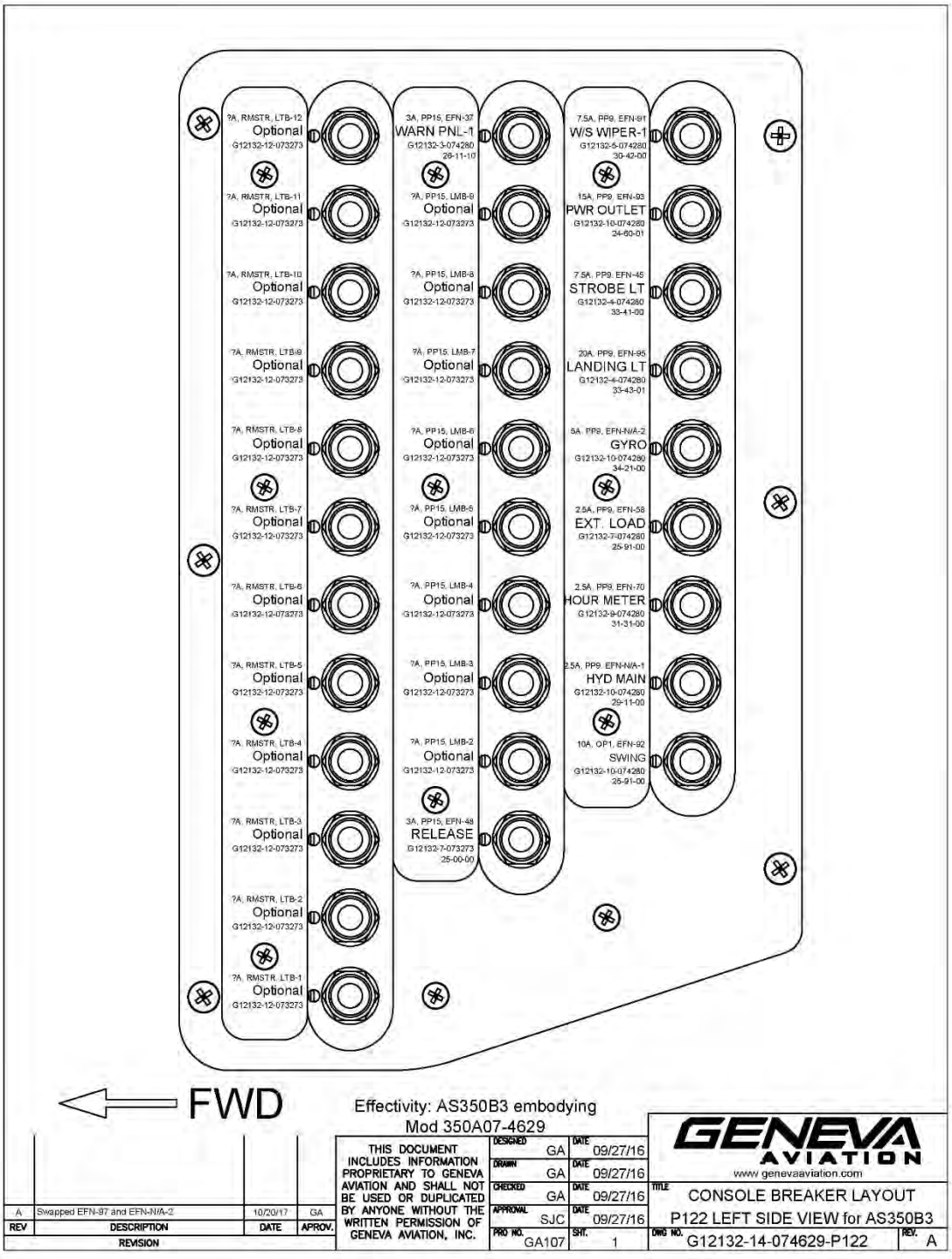

Figure 223: P132 Console LH Side CB Layout (G12132-14-074629-P122 Rev A)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4629

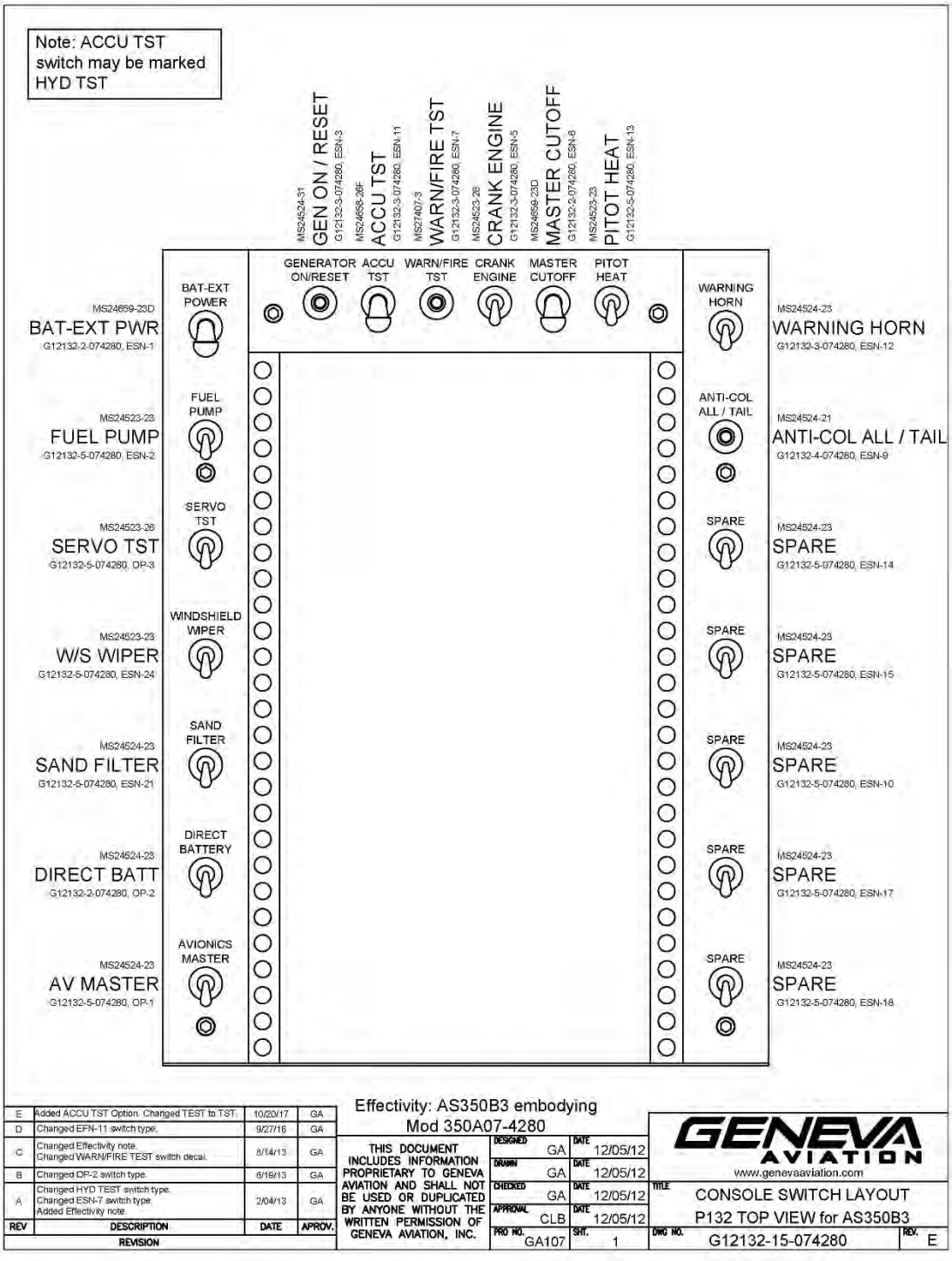

Figure 224: P132 Console Switch Layout (G12132-15-074280 Rev E)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

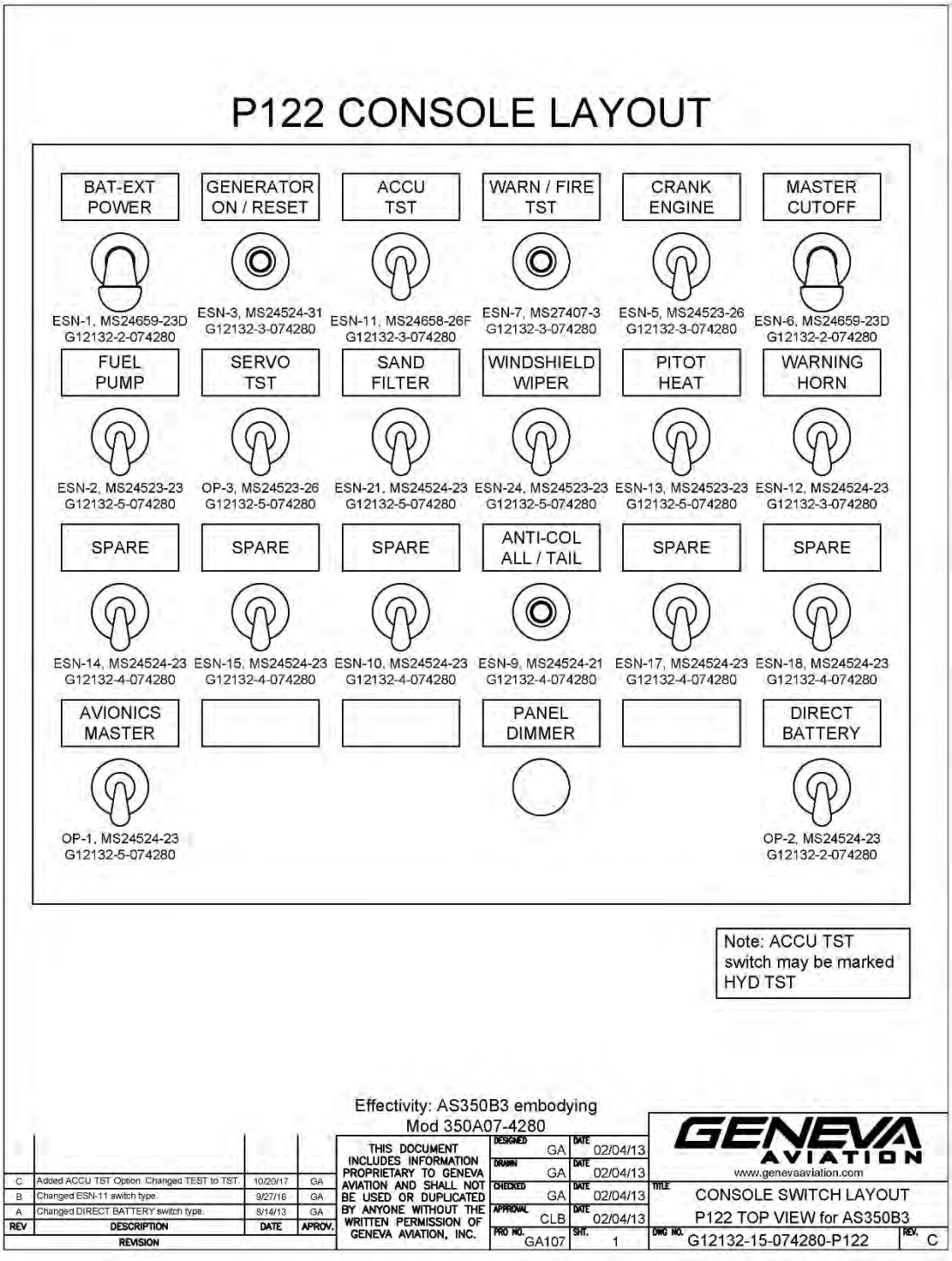

Figure 225: P122 Console Switch Layout (G12132-15-074280-P122 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

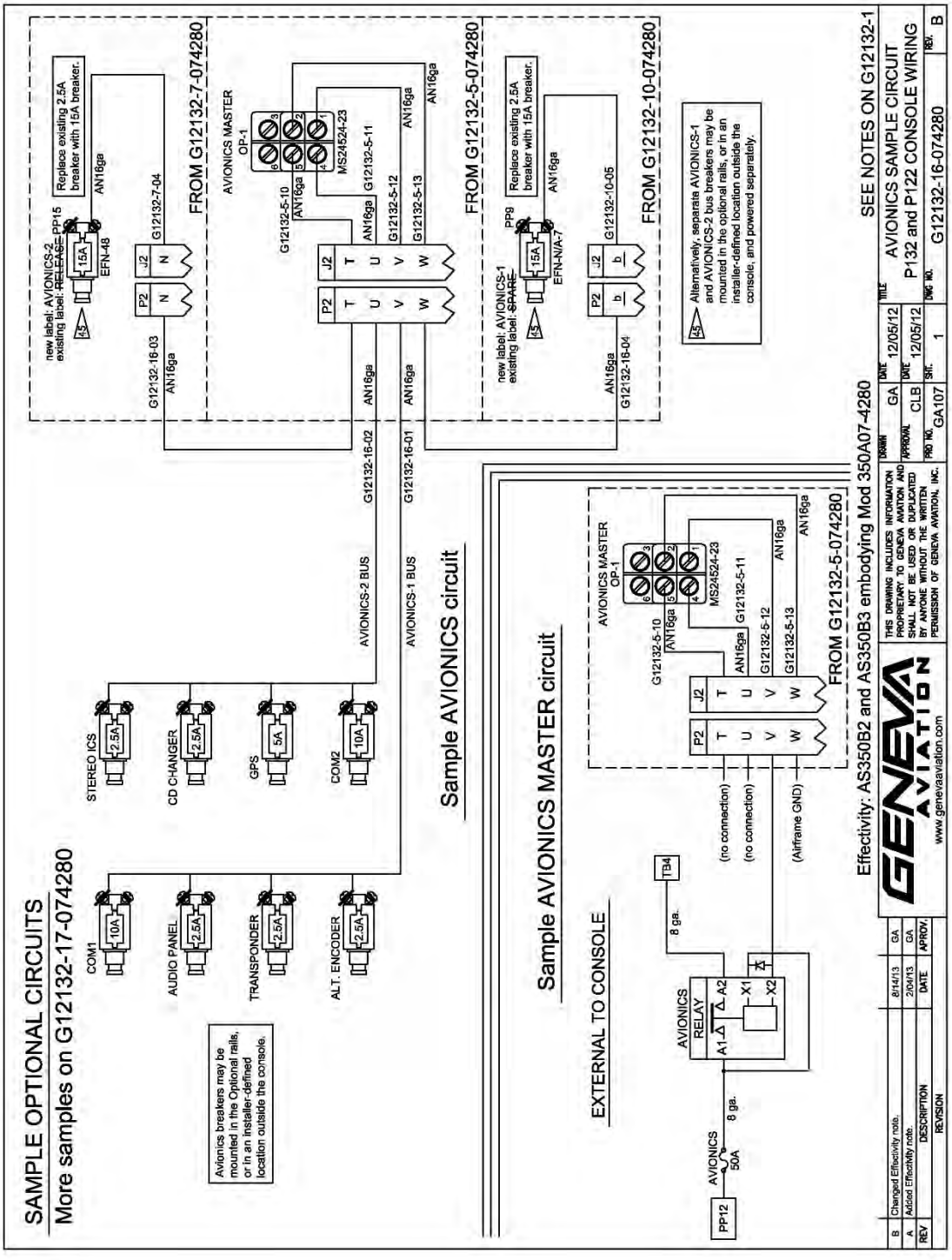

Figure 226: Console Avionics Sample Circuit (G12132-16-074280 Rev B)
Effectivity: AS350-B2 & B3e AIRCRAFT POST MOD 350A07-4280.

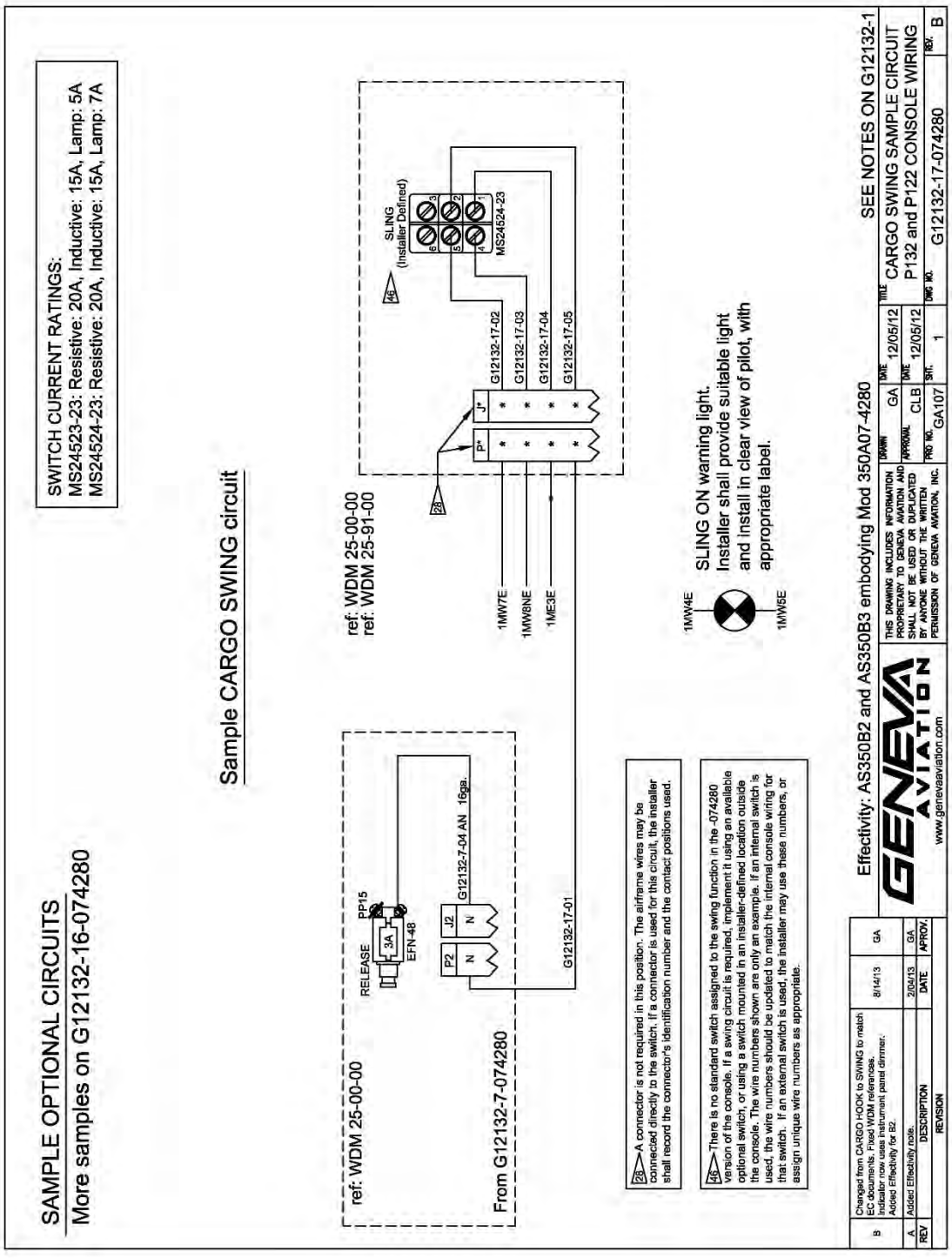

Figure 227: Cargo Hook Sample Circuit (G12132-17-074280 Rev B)
Effectivity: AS350-B2 &B3e AIRCRAFT POST MOD 350A07-4280.

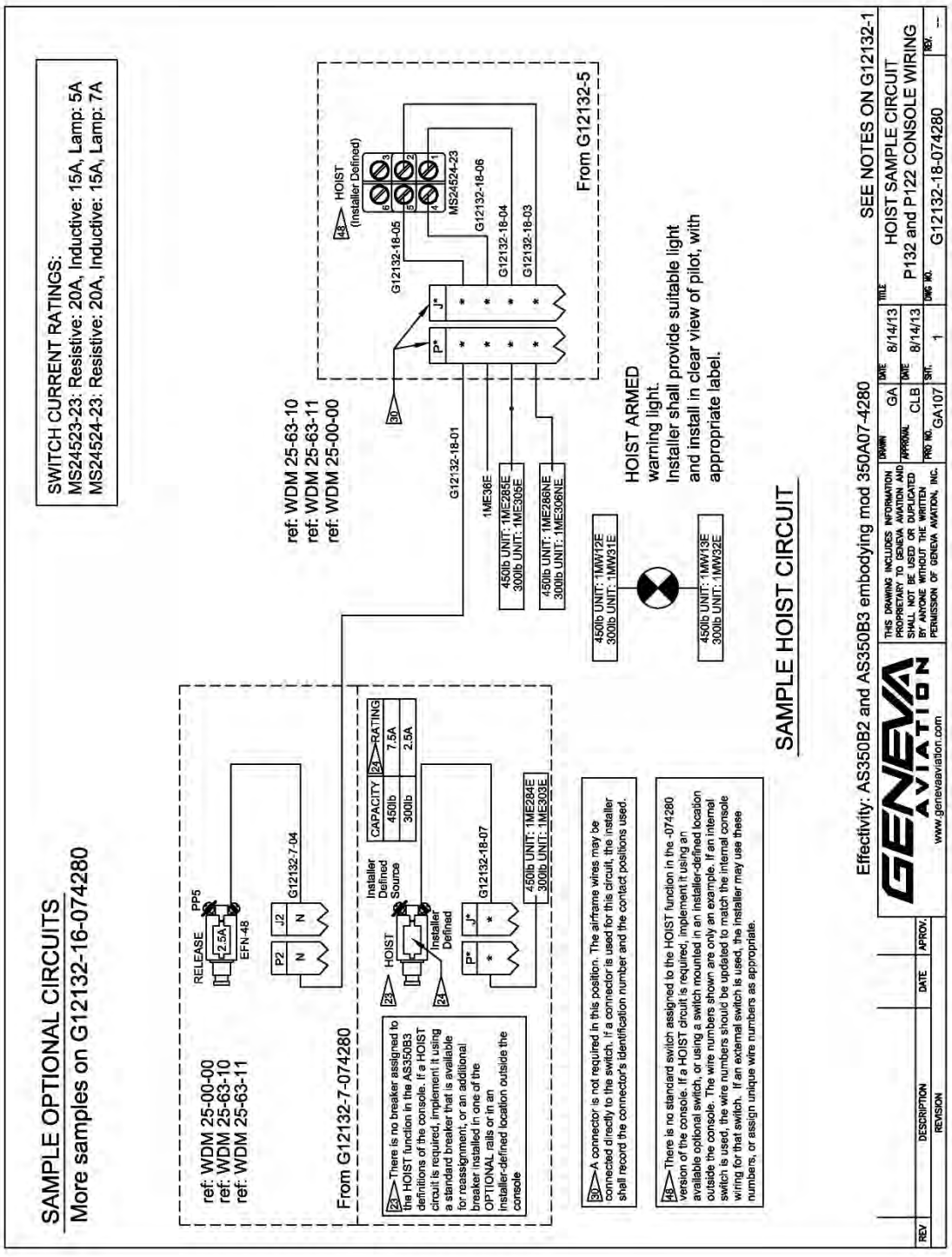

Figure 228: Hoist Sample Circuit (G12132-18-074280 Rev --)
Effectivity: AS350-B2 &B3e AIRCRAFT POST MOD 350A07-4280.

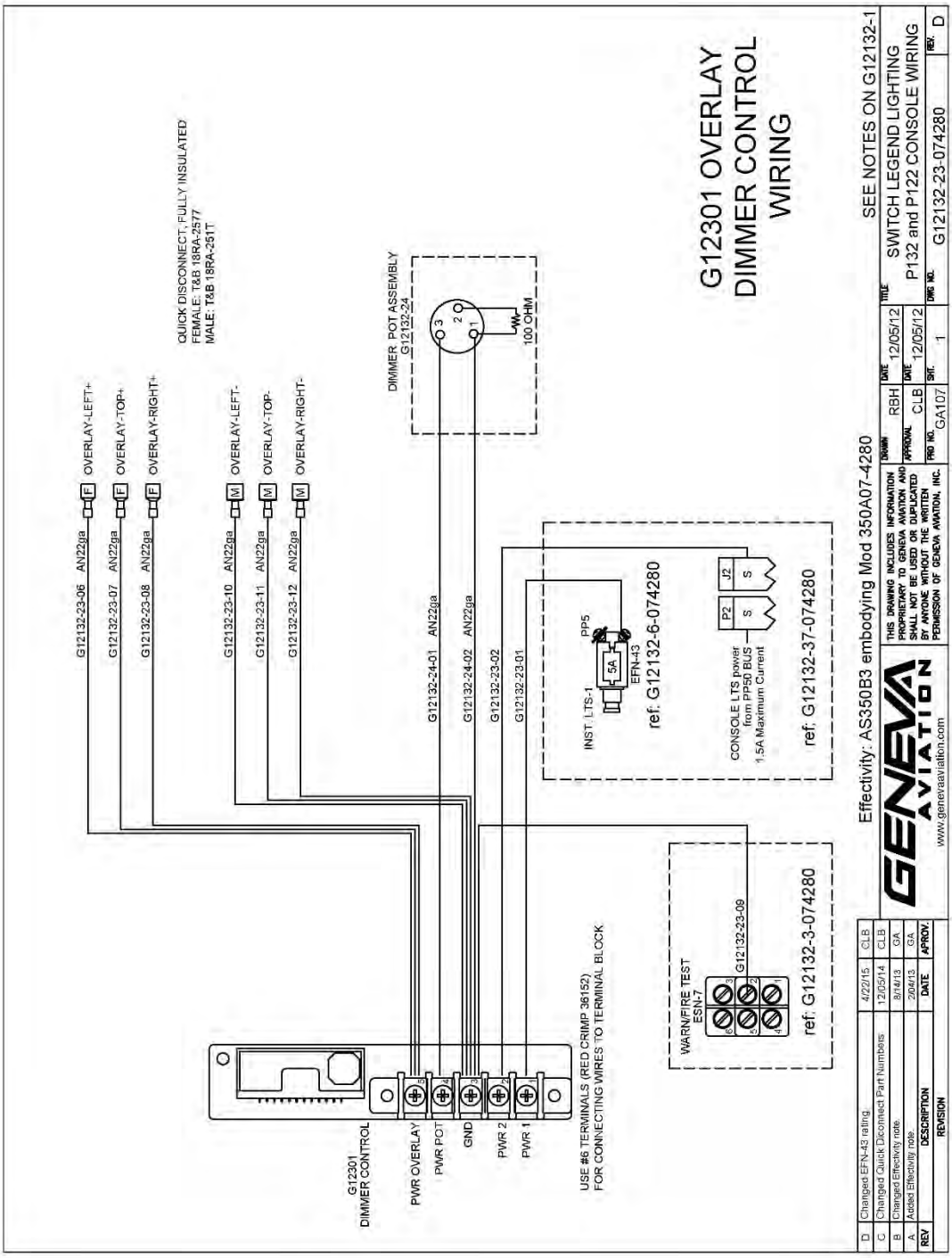

Figure 229: Switch Legend Lighting (G12132-23-074280 Rev D)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

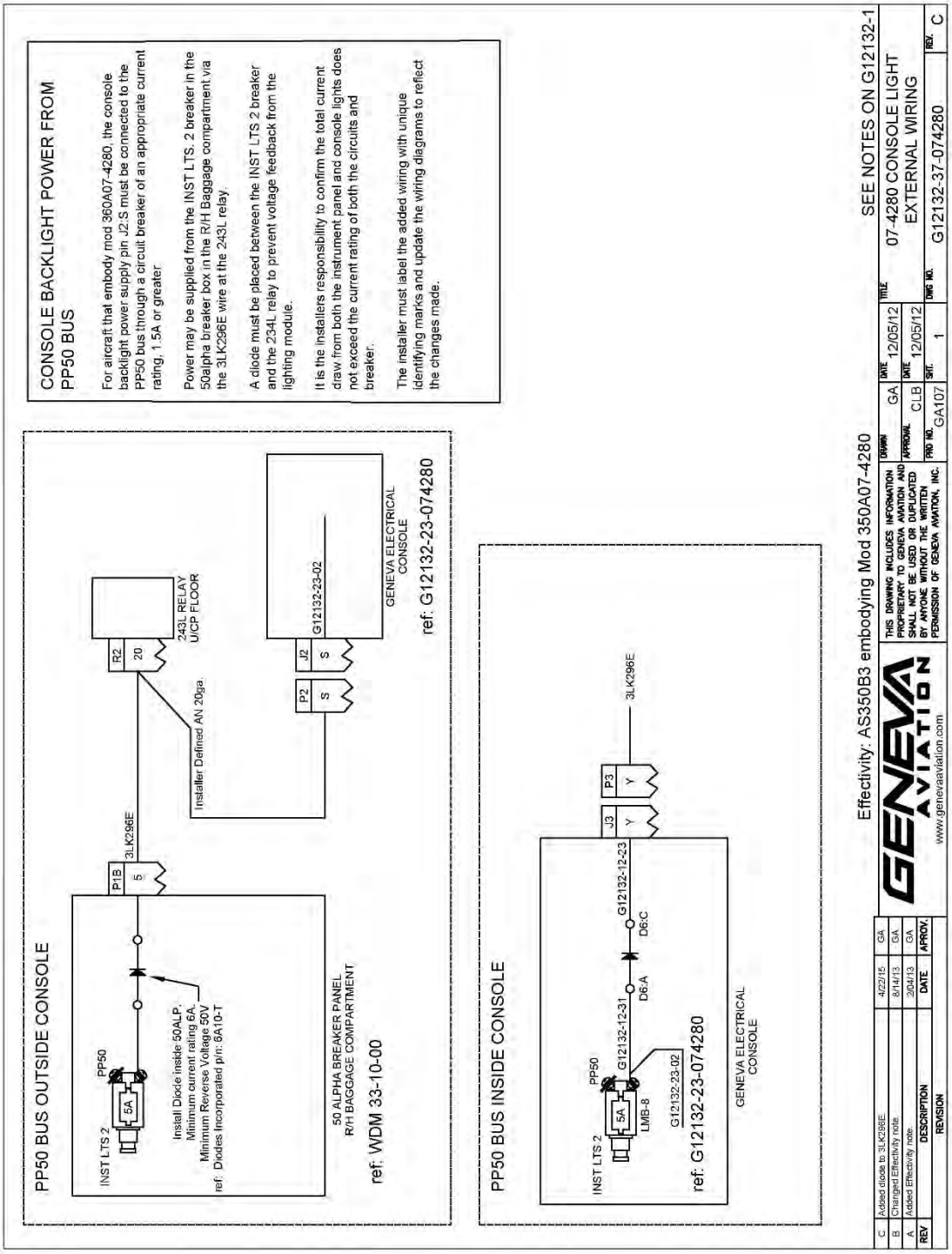

Figure 230: Console Light External Wiring (G12132-37-074280 Rev C)
Effectivity: AS350-B3e AIRCRAFT POST MOD 350A07-4280

Section 7.0 Function Test Procedure

7.1 Overview

7.1.1 Test all electrical systems and equipment on the aircraft, not just what is listed in this section. Refer to the aircraft flight manual and its supplements for operational information, as well as the documents used for installation.

7.1.2 The function test must establish that an electrical device or system functions correctly. “Functions correctly" means more than just checking that the device operates. You must also determine that a device only operates when it should. (For example, a device that is normally powered through a switch should be checked to determine that the device is not also getting power from another source, as a result of wiring errors. Make sure that this device is actually powered off when the switch is in the off position.)

7.1.3 As you perform the Function Test, correct each problem right away. (Do not test everything first and then fix problems all at once, as you may cause damage by proceeding with the testing after a problem is discovered.) Once a test is completed satisfactorily, initial in the space provided for that test and proceed to the next test.

7.1.4 This test is being performed after a major rewiring of the electrical system for the entire aircraft. You should anticipate all of the possible failure modes in order to perform this test adequately. For example, some of the failure modes possible are obvious, such as a defective switch, circuit breaker, diode, connector, or a simple wiring error. Some of the less obvious failure modes are:

a. a terminal is crimped improperly, resulting in an intermittent connection

b. a diode is in the circuit backwards

c. a connector pin is not correctly seated, resulting in an open or intermittent connection

d. a connector pin is bent, resulting in an open, or intermittent connection

e. a connector pin is bent, resulting in a short to an adjacent pin

f. metal shavings are inside a connector, resulting in intermittent short circuits

g. a wiring error connects two circuits together, resulting in confusing behavior

h. a wiring error connects some of the wires to the wrong terminals of a switch

i. a wiring error connects the wire to the wrong pin of a connector

j. a wire is sized incorrectly for the circuit breaker rating

7.1.5 There are more failure modes than can be listed here. Powering up the aircraft or a circuit can result in the damage to very expensive components. The best defense against mistakes and damage is to double check each step of the installation as each step is made. Later, have someone else re-check each step of the installation.

7.1.6 All switches should be in the off position and circuit breakers should be in the tripped position when the aircraft battery is connected. Then, only turn on switches and circuit breakers as called for in the Function Test.

7.2 Function Test Procedure 1 (used for most devices)

7.2.1 Check that the device is truly powered off.

7.2.2 Close the breaker for that device by pressing in the plunger.

7.2.3 Check that the device is powered on if the breaker powers the device directly, or that the device is still powered off if the power needs to pass through a switch.

7.2.4 Turn on the switch for the device and check for proper operation.

7.2.5 Turn off the switch and pull the circuit breaker plunger to the tripped position at the completion of the test.

7.2.6 Once a test for a device has been completed satisfactorily, you may operate that device as needed to perform the tests that follow.

7.2.7 Function Test abbreviations for actions to take:

a. Check SW: Make sure that the device only operates with the correct switch in the on position. Follow Function Test Procedure 1.

b. Check CB: Make sure that the correct circuit breaker provides power to the correct device only. Follow Function Test Procedure 1.

7.2.8 The Function Test is normally performed in the sequence listed. It is the installer's responsibility to establish the test parameters and sequence for the particular aircraft.

7.2.9 The Function Test listed here is a minimum test. The installer must modify the test as required to suit the particular aircraft and the equipment installed.

7.2.10 As you perform the function test, review the circuitry being tested using both the Eagle Copters G12132 documents and the Eurocopter Wiring Diagram Manual. Make sure that you are testing everything that could be faulty, not just what is listed in this test procedure.

7.2.11 Some of the function tests will be performed with the engine running. Prior to starting the engine, the aircraft should be made ready for engine starting and running operations. Follow the procedures in the aircraft flight manual. For example, the pilot seat and pilot tail rotor control pedals should be installed, and tools, materials and debris should be safely cleared from the aircraft. All precautions must be taken to insure safe running of the engine.

7.3 Function Test Checklist

Use the column that matches the aircraft model to perform the correct functional test
Note: *B2 refers to B2 models Post–Mod 350A07-3273

Model B, BA,B1, B2, C, D, D1	Model *B2 B3

Circuit	Procedure	Initials	Initials
BAT-EXT Power	Function Test Procedure 1. Aircraft power is on only when this switch is on. After satisfactorily completing the testing of this switch, leave this switch on for the following tests.		
MASTER CUTOFF	Function Test Procedure 1. With BAT-EXT PWR switch on, turning MASTER CUTOFF on shuts off power to everything except rotor tach, pilot's overhead floodlights, and items wired directly to battery. (depending on model also check for power to other engine monitoring instruments) Turn this switch off after its test is completed satisfactorily.		
Warn Light Test	Function Test Procedure 1 (Warn / Fire Test switch in forward position). Warning panel lights should illuminate.		
Fire Test	Function Test Procedure 1 (Warn / Fire Test switch in aft position). ENG FIRE panel light should illuminate.		
Fire Test	Function Test Procedure 1 (Warn / Fire Test switch in aft position). ENG FIRE panel light should illuminate. Gong tone will sound.		
Fuel Pump	Function Test Procedure 1		
Fuel Pump 2	Function Test Procedure 1. Also observe that FUEL.P warning light illuminates if both pumps are not pumping.		
T-4 (EGT)	Function Test Procedure 1. Not applicable for non-powered T-4 indicators.		
Instrument Lights, Switches 1 and 2	Function Test Procedure 1 for each switch. When both are on, each dimmer pot works separately. When one switch is off, the other dimmer circuit controls the brightness for both dimmer lighting groups.		
Position Lights	Function Test Procedure 1.		
Anti-Col Light	Function Test Procedure 1. Optionally, there may be additional strobe lights controlled by this switch. If so, then all strobe lights should illuminate when this switch is in the position labeled ALL, and only the designated strobe should illuminate when in the opposite position. If this is not a center-off type of switch, then only the tail strobe light will be controlled by this switch.		
Taxi Light	Function Test Procedure 1.		

Circuit	Procedure	Initials	Initials
Landing Light	First, confirm that the landing light relay wiring and circuitry has been changed from Eurocopter's standard to the configuration shown on G12132-4. After confirming that the wiring matches G12132-4, proceed with Function Test Procedure 1.		
Pitot Heat	Function Test Procedure 1. Pitot tube becomes hot only when switch is on.		
Hydraulic Checks.	Perform Function Test in accordance with Maintenance Manual Instructions.		
Avionics Master	Function Test Procedure 1.		
Oil Cooling Fan	Open switch at 30E; Fan OFF. Jumper terminals at 30E; Fan On		
Fuel Quantity	Function Test Procedure 1. Check that fuel quantity reading follows tank quantity		
Volt Meter	Function Test Procedure 1. Compare reading with the reading of a calibrated voltmeter.		
Hour Meter, Run Time	Function Test Procedure 1. Meter powered only when MGB oil pressure switch is open (from low oil pressure).		
Hour Meter, Maintenance Time	Function Test Procedure 1. Meter powered only when MGB oil pressure switch is open (from operating oil pressure) and collective switch is closed (Collective UP), or if landing gear crosstube deflection switch is used then switch indicates that helicopter is off the ground. See circuit for details.		
Attitude Gyro	Function Test Procedure 1. Open and close circuit breaker to observe that power flag retracts. Check that internal lights function if installed.		
Directional Gyro (D.G.)	Function Test Procedure 1. Open and close circuit breaker to observe that power flag retracts. Check that internal lights function if installed.		
Turn & Bank Gyro	Function Test Procedure 1. Open and close circuit breaker to observe that power flag retracts. Check that internal lights function if installed.		
Electric Clock	Function Test Procedure 1.		
Cargo Hook	Function Test Procedure 1.		
Ext. Load System	Function Test Procedure 1.		
Sand Filter	Function Test Procedure 1.		
Windshield Wiper (1 & 2)	Function Test Procedure 1.		
Power Outlet	Function Test Procedure 1.		
Cabin Lights (front & rear)	Function Test Procedure 1.		
Hoist	Function Test Procedure 1.		

Circuit	Procedure	Initials	Initials
AC Inverter	Function Test Procedure 1.		
Voltage Converter	Function Test Procedure 1. Confirm that output voltage is suitable for specific installation.		
Bleed Valve	Function Test Procedure 1.		
Spraying Option	Function Test Procedure 1.		
Fuel Flow Indicator	Function Test Procedure 1.		
VEMD	Function Test Procedure 1.		
ASU or VHIU	Function Test Procedure 1.		
GOV (FADEC) (B3 only)	Function Test Procedure 1.		
All Optional Circuits	Function Test Procedure 1 and/or other tests as appropriate.		
Crank	Function Test Procedure 1. Switch on runs engine starter motor without igniters firing.		
Ng Indicator	Function Test Procedure 1. Crank engine and observe normal operation.		
Engine Start	Function Test Procedure 1. After performing all tests and procedures necessary for a safe engine start, start the engine in accordance with instructions in the flight manual and check for correct operation of all related systems and circuits. Then perform the tests that follow with the engine running at idle.		
Fuel Pressure (Quad Gauge)	Function Test Procedure 1. Switch fuel pump(s) on and off and observe normal indication on gauge.		
Oil Pressure (Quad Gauge)	Function Test Procedure 1. With engine running, check for normal indication on gauge.		
Oil Temp (Quad Gauge)	Function Test Procedure 1. With engine running, check for normal indication on gauge.		
Generator Switch	Function Test Procedure 1. The center-off position should result in the aircraft being powered from the battery only. The up position should put the generator on the bus, with an increase in bus voltage indicated. (Adjust generator voltage if required.) For aircraft with the Generator Reset function installed, press the test switch in the master electrical box to simulate an over-voltage event. The generator should now be off line, even though the generator switch is still in the on position. Move the generator switch to the down RESET position and then to the ON position. The generator should come back on line.		

Circuit	Procedure	Initials	Initials
Warning Horn	Function Test Procedure 1. Does Arm / Disarm sequence properly with Warning Light? Function Test in Accordance with Flight Manual instructions.		
Torque Indicator	Function Test Procedure 1. Observe normal operation		
Rotor Tach	Function Test Procedure 1. Observe normal operation with Master Cutoff switch off (normal) and on (electrical shed).		
Engine Shutdown	Perform normal engine shutdown procedure defined in the flight manual. Check for proper operation of all systems and circuits.		
End of Test	Turn off all switches.		

Function test completed satisfactorily by:

_____ _____

Name, Title, A&P No. **Date**

Section 8.0 Weight and Balance

Refer to helicopter equipment list for updated weight and balance information.