

NOTES:

- 01) ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE STANDARD PRACTICES OF THE AIRBUS HELICOPTERS AS350 STANDARD PRACTICES MANUAL:
 - STANDARD FABRICATION MTC CHAPTER 20-03
 - THREADED FASTENERS INSTALLATION IAW MTC CHAPTER 20-02-05-404
 - INSTALLATION OF RIVETS IAW MTC CHAPTER 20-03-02-401
- 02) REMOVE ALL BURRS AND SHARP EDGES.
- 03) NO LESS THAN A MINIMUM:
 - 2D FASTENER EDGE DISTANCE
 - 4D FASTENER CENTER TO CENTER DISTANCE
- 04) ALL MODIFIED OR NEWLY FABRICATED BARE METAL PARTS TO BE TREATED AS FOLLOWS:
 - CHEMICAL CONVERSION COAT IAW MIL-DTL-5541F.
 - APPLY ONE COAT OF EPOXY PRIMER IAW MIL-PRF-23377K.
- 05) PAINT EXPOSED SURFACES IAW MIL-PRF-22750G (OR EQUIVALENT) TO MATCH EXISTING COLOUR OF THE AIRCRAFT. DO NOT PAINT THE ANTENNA.
- 06) TABLE 1 BELOW PROVIDES THE WEIGHTS OF ALL INSTALLED COMPONENTS FOR WEIGHT AND BALANCE CALCULATIONS.

TABLE 1	
COMPONENT	WEIGHT (LBS)
CI-295-300 TRI-BAND ANTENNA	2.0

- 07) IDENTIFY PARTS WITH MIN 0.12 HIGH CHARACTERS USING PERMANENT INK. IDENTIFICATION TO INCLUDE PART NUMBER AND REVISION STATUS.
- 8 UP TO SIX ANTENNAS MAY BE INSTALLED IN THE LOCATIONS DEPICTED. THE QUANTITY OF ANTENNAS IS SPECIFIC TO THE TDFM-9X000 TRANSCIVER CONFIGURATION, DETERMINED IN ACCORDANCE WITH WD13004.
- 9 DRILL HOLES THROUGH THE SKIN OF THE FUSELAGE (COMPOSITE PANEL) TO MATCH THE ANTENNA'S FOOTPRINT. MATCH FASTENER AND CONNECTOR HOLE SIZES AS SHOWN ON THE INSTALLATION.
- 10 FOR ELECTRICAL BONDING OF THE MOUNTING PLATE TO THE AIRFRAME USE MS25083-7BXX, OR EQUIVALENT, 10AWG BONDING JUMPER. AFTER TERMINATION, VERIFY BONDING OF RESISTANCE TO THE AIRFRAME GROUND IS LESS THAN 3 MILLIOHMS, AND THE ENVIRONMENTAL SEAL IS IN ACCORDANCE WITH AIRBUS HELICOPTERS AS350 STANDARD PRACTICES.
- 11 TRIM ITEM -101 AS REQUIRED UPON INSTALLATION.
- 12 WHEN INSTALLING THE SPACER (BOM ITEM 204), ONLY DRILL OUT THE INTERIOR SIDE OF THE COMPOSITE PANEL THROUGH TO THE HONEYCOMB STRUCTURE.
- 13 FILL IN THE HONEYCOMB STRUCTURE SURROUNDING THE SPACER (BOM ITEM 204) USING DP-100 EPOXY ADHESIVE (OR EQUIVALENT). AFTER IT HAS CURED, SAND UNTIL SMOOTH AND FLUSH WITH THE INTERIOR PANEL SURFACE.
- 14 CUT THE HEIGHT OF THE SPACER (BOM ITEM 204) TO BE FLUSH WITH THE COMPOSITE PANEL INTERIOR SURFACE.
- 15 TORQUE SCREWS TO 25 IN-LBS.
- 16 FASTENER LENGTH TO BE VERIFIED AND MODIFIED AS REQUIRED UPON INSTALLATION.
- 17 CONTACT SURFACE AREA BETWEEN THE MOUNTING PLATE AND GROUNDING PLATE MUST BE FREE OF ALL EPOXY PRIMER AND ADHESIVES TO ALLOW METAL TO METAL ELECTRICAL BONDING.
- 18 FOR ORDERING PURPOSES, REFER TO WIRING DIAGRAM, WD13004.
- 19 BOND THE GROUNDING PLATE TO THE ROTORCRAFT STRUCTURE USING HYSOL EA 9309.3NA EPOXY ADHESIVE (OR EQUIVALENT).
- 20 STRIP THE EPOXY PRIMER OFF AROUND A Ø0.625 AREA A SURROUNDING THE GROUNDING SCREW/ WASHER ON THE TOP SURFACE OF THE MOUNTING PLATE.
- 21 FILLET SEAL THE PERIMETER OF THE MOUNTING PLATE TO THE GROUND PLATE AND THE BASE OF THE ANTENNA TO THE FUSELAGE (COMPOSITE PANEL) WITH PR-1422B (OR EQUIVALENT).
- 22 FINISH CUT PANEL EDGES BY CRUSHING CORE BACK 0.25" AND FILL WITH 3M EPOXY EC3524B/A (OR EQUIVALENT)

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QTY / DASH No.		LIST OF MATERIAL				
		ITEM	PART NUMBER	DESCRIPTION	SPEC	MATERIAL or ALTERNATE P/N
-003	-001	001	MD21068-001	CI-295-300 INSTALLATION		
	A/R	003	MD21068-003	ANTENNA ASSEMBLY		
1		101	MD21068-101	MOUNTING PLATE	QQ-A-250/5	2024-T3, 0.080 THK
1		103	MD21068-103	GROUNDING PLATE	QQ-A-250/5	2024-T3, 0.040 THK
12		201	MS20426AD3-()	RIVET, SOLID, CSK HEAD	3/32	
6		202	MS24694-S()	SCREW, CSK	#10-32	
6		203	MS21059L3	NUTPLATE, SELF-LOCK, 2LUG, FLOAT	#10-32	
6		204	NAS43DD3-48	SPACER	#8	
1		205	MS24694-S16	SCREW, CSK	#8-32	
2		206	NAS1149FN832P	WASHER	#8	
1		207	MS21042-8	SELF-LOCKING NUT	#8-32	
(1)		501	CI-295-300	TRI-BAND ANTENNA		COMANT INDUSTRIES

AVIONICS DESIGN SERVICES LTD. RELEASED

REVISION STATUS	
SHEET	REVISION
01	P1
02	P1
03	P1
04	P1

UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS ARE IN INCHES [MILLIMETERS].
 2. REMOVE BURRS AND BREAK SHARP EDGES 0.02" RADIUS.
 3. MINIMUM CORNER RADIUS 0.25"
 4. MINIMUM 2Ø EDGE DISTANCE ON ALL FASTENERS.
 5. TOLERANCES: LINEAR: X.XX ±0.03 ANGULAR: X.XX ± 1' MACHINED SURFACES: X.XXX ±0.010 125

P1	REVISION	THE DESIGN DEPICTED IN THIS DRAWING IS THE EXCLUSIVE PROPERTY OF AVIONICS DESIGN SERVICES LTD. AND IN THE ACCEPTANCE OF THIS DRAWING THE RECIPIENT AGREES THAT IT WILL NOT BE USED FOR THE PURPOSE OF MANUFACTURE OR PROCUREMENT OF THE PART OR ASSEMBLY SHOWN HEREIN REPRODUCED OR OTHERWISE COPIED OR DISCLOSED TO ANY OTHER PERSON OR PARTY EXCEPT AS AUTHORIZED IN WRITING BY AVIONICS DESIGN SERVICES LTD.
PRELIMINARY RELEASE.	DESCRIPTION	
J. HABER	DRAWN	AVIONICS DESIGN SERVICES Ltd. MIDLAND, ONTARIO, CANADA. TRI-BAND ANTENNA INSTL OPTION - AS350
21/09/14	DATE	
DS	APPROVED	
SIZE B	NEXT HIGHER ASSY: -	DRAWING No. CAD FILE #MD21068P101
SCALE: NTS		MD21068
DATE: 21/09/14	DRAWN: J.HABER	SHEET: 01 OF 04

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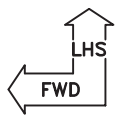
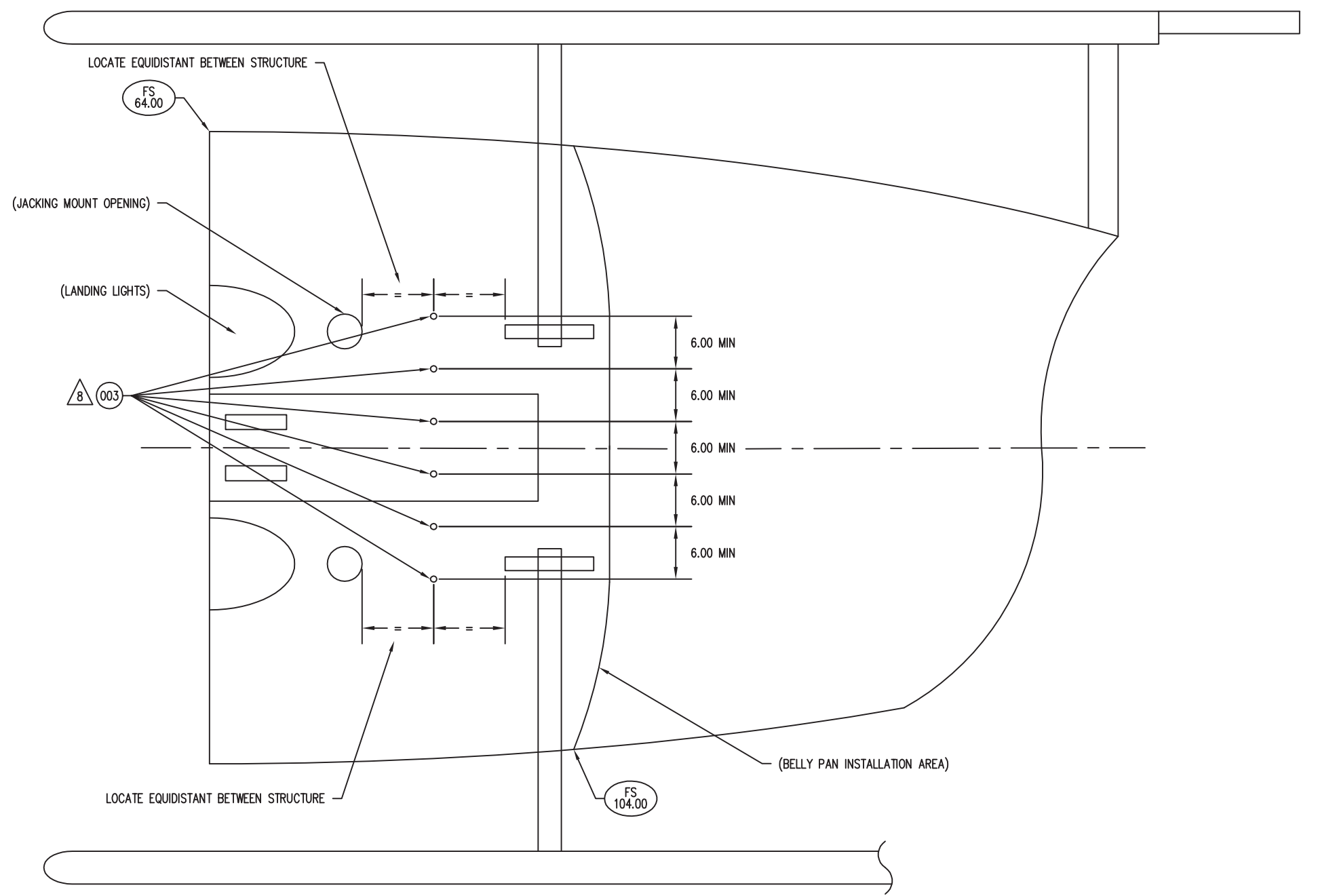
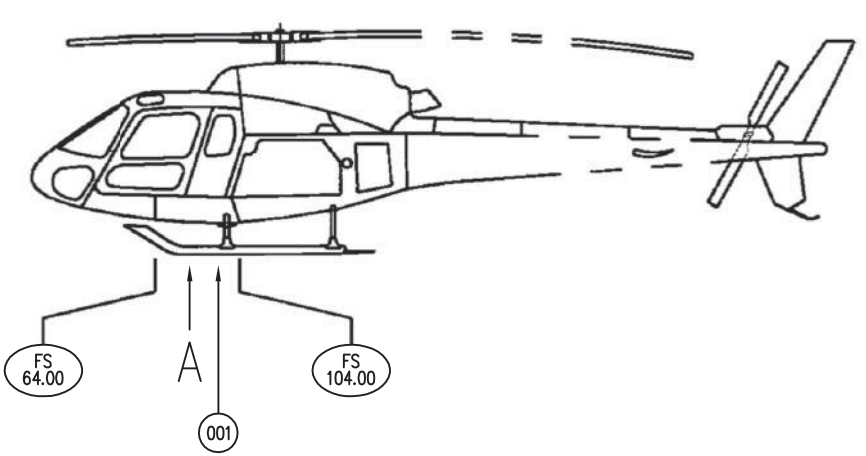
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VIEW A
LOOKING UP AT
BELLY PAN

-001 CI-295-300 INSTALLATION

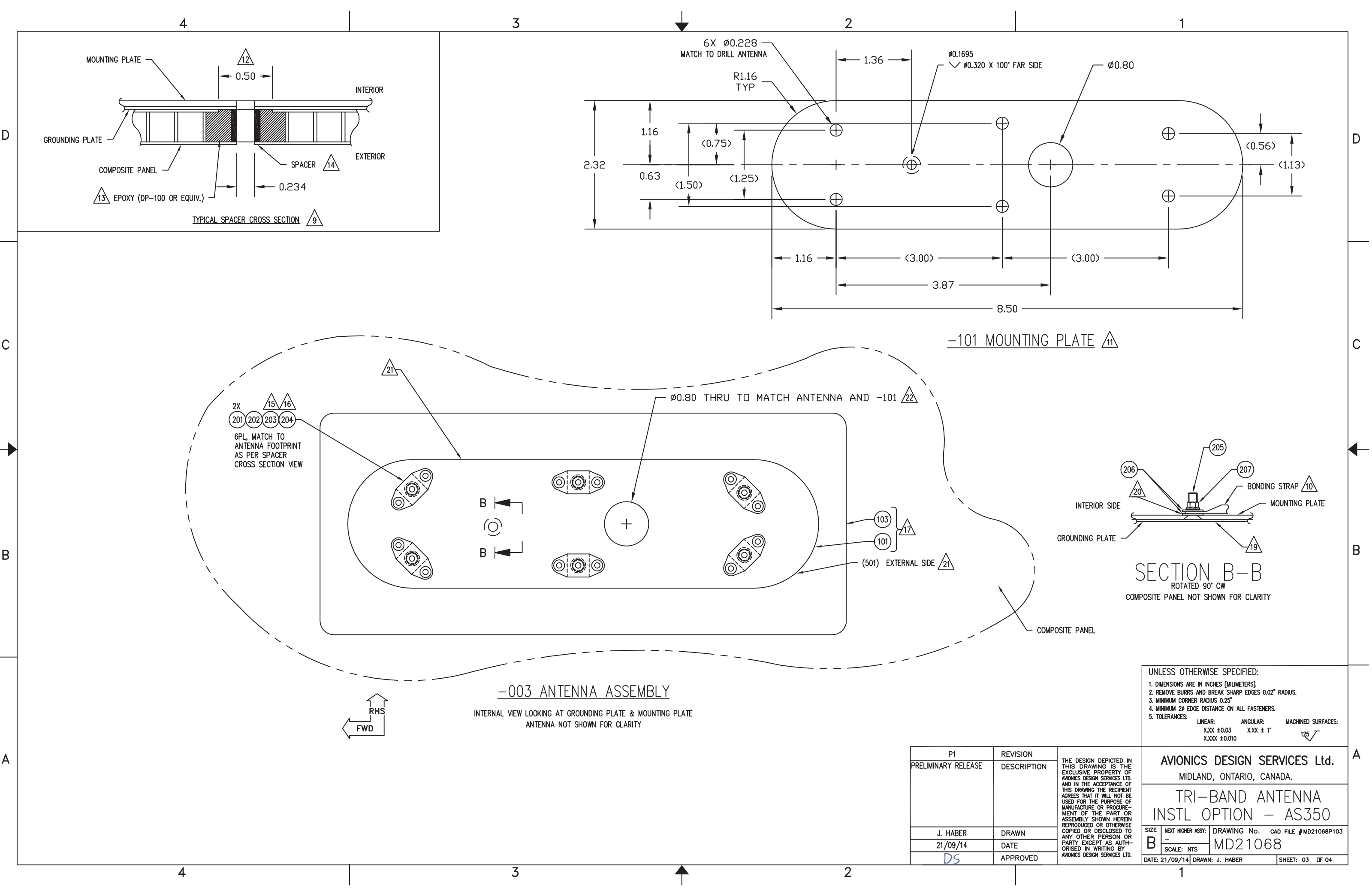
- UNLESS OTHERWISE SPECIFIED:
1. DIMENSIONS ARE IN INCHES [MILLIMETERS].
 2. REMOVE BURRS AND BREAK SHARP EDGES 0.02" RADIUS.
 3. MINIMUM CORNER RADIUS 0.25"
 4. MINIMUM 2# EDGE DISTANCE ON ALL FASTENERS.
 5. TOLERANCES: LINEAR: X.XX ±0.03, X.XXX ±0.010; ANGULAR: X.XX ± 1'; MACHINED SURFACES: 125

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21/09/14	DATE	
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AVONICS DESIGN SERVICES Ltd.
MIDLAND, ONTARIO, CANADA.

TRI-BAND ANTENNA
INSTL OPTION - AS350

SIZE	NEXT HIGHER ASSY:	DRAWING No.	CAD FILE #
B	-	MD21068	#MD21068P102
SCALE: NTS			
DATE: 21/09/14	DRAWN: J. HABER	SHEET: 02 OF 04	



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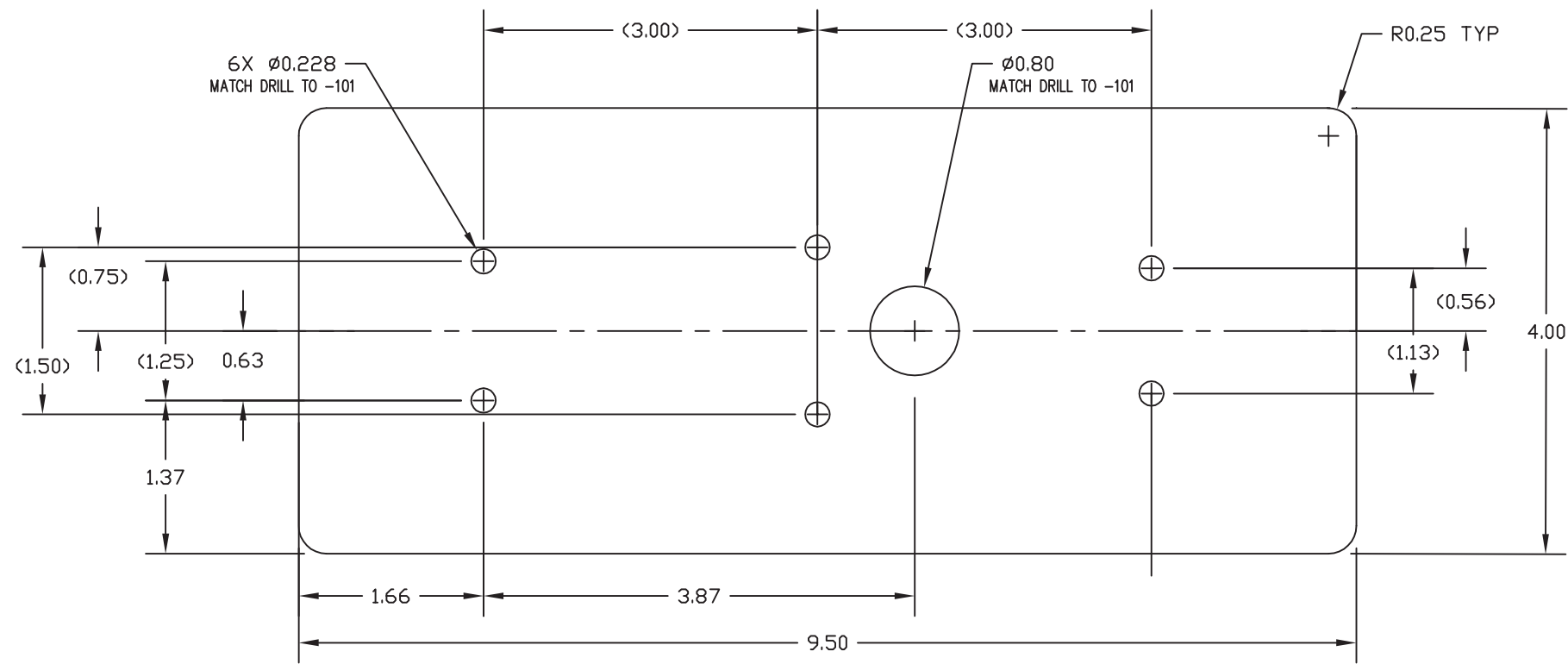
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-103 GROUNDING PLATE

UNLESS OTHERWISE SPECIFIED:
 1. DIMENSIONS ARE IN INCHES [MILLIMETERS].
 2. REMOVE BURRS AND BREAK SHARP EDGES 0.02" RADIUS.
 3. MINIMUM CORNER RADIUS 0.25"
 4. MINIMUM 2# EDGE DISTANCE ON ALL FASTENERS.
 5. TOLERANCES: LINEAR: X.XX ±0.03 X.XXX ±0.010 ANGULAR: X.XX ± 1° MACHINED SURFACES: 125 ✓

P1	REVISION
PRELIMINARY RELEASE	DESCRIPTION
J. HABER	DRAWN
21/09/14	DATE
DS	APPROVED

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AVONICS DESIGN SERVICES Ltd.
 MIDLAND, ONTARIO, CANADA.

**TRI-BAND ANTENNA
 INSTL OPTION - AS350**

SIZE	NEXT HIGHER ASSY:	DRAWING No.	CAD FILE #
B	-	MD21068	#MD21068P104
SCALE: NTS		DATE: 21/09/14 DRAWN: J. HABER SHEET: 04 OF 04	