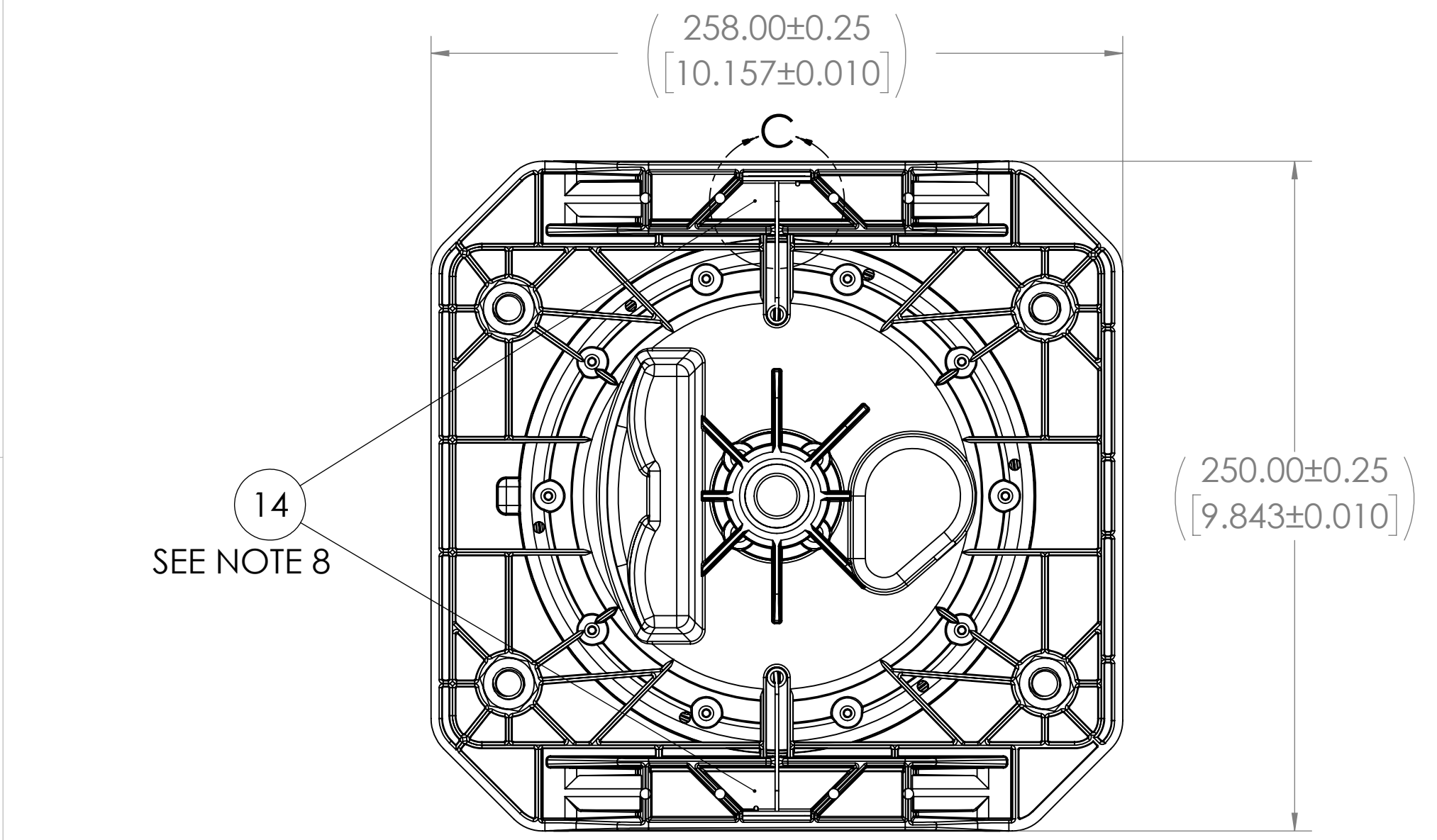
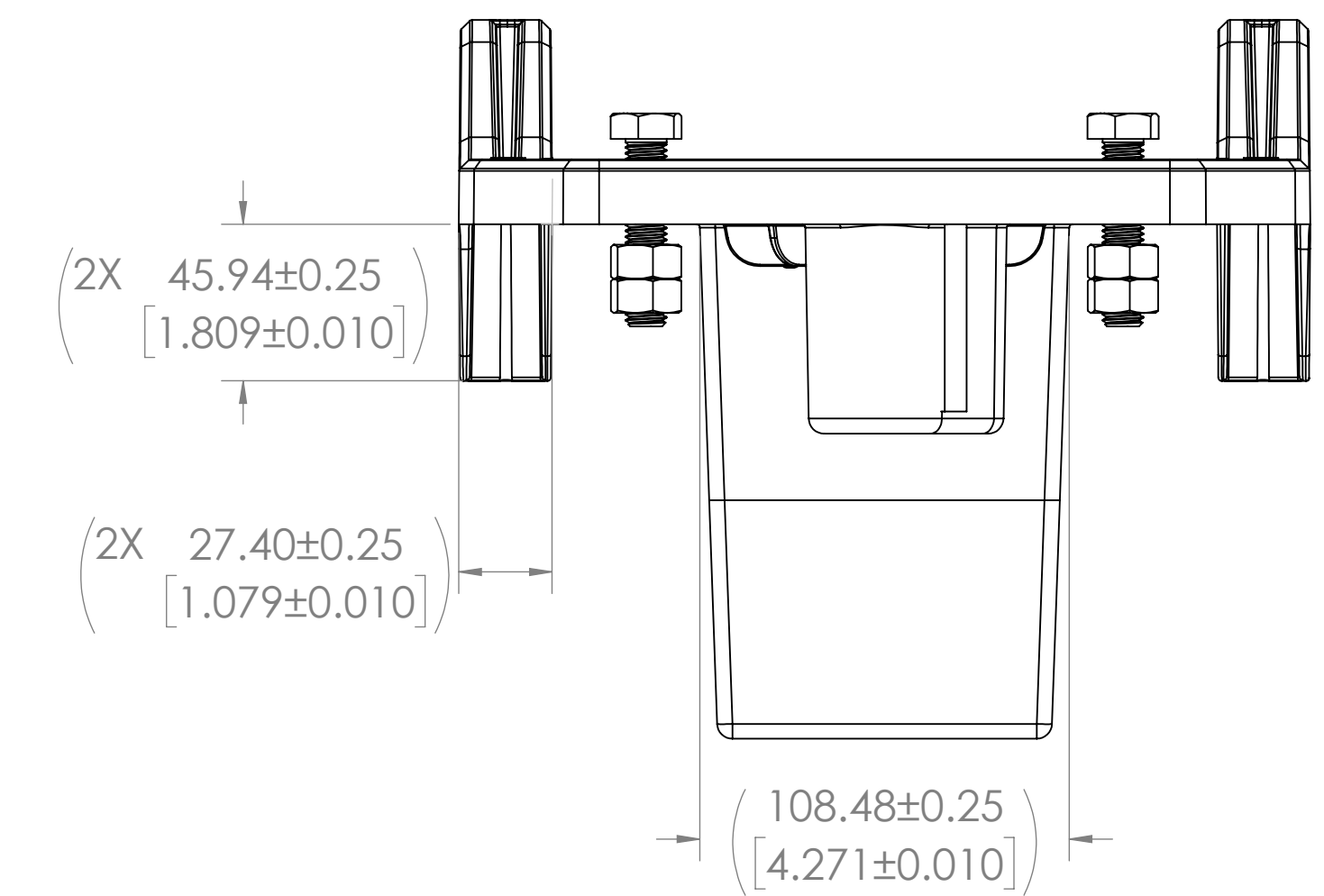
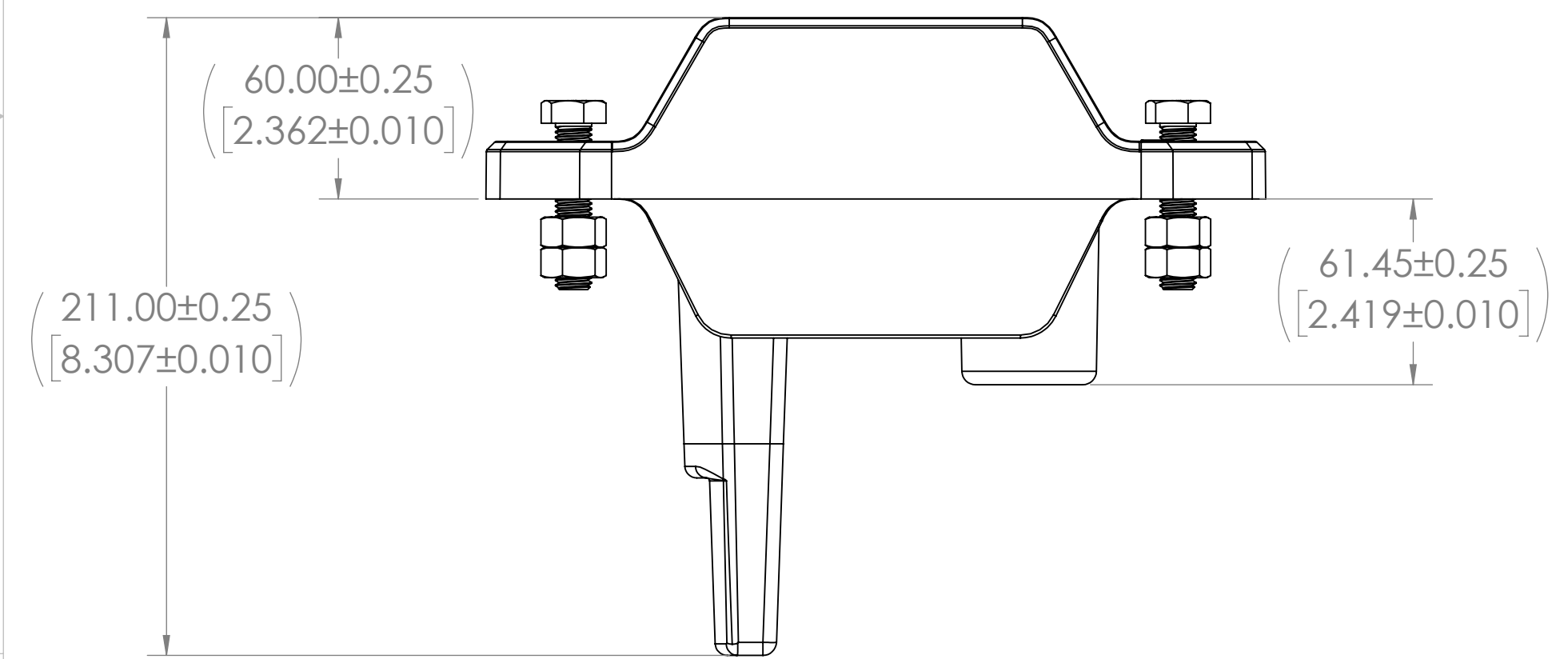
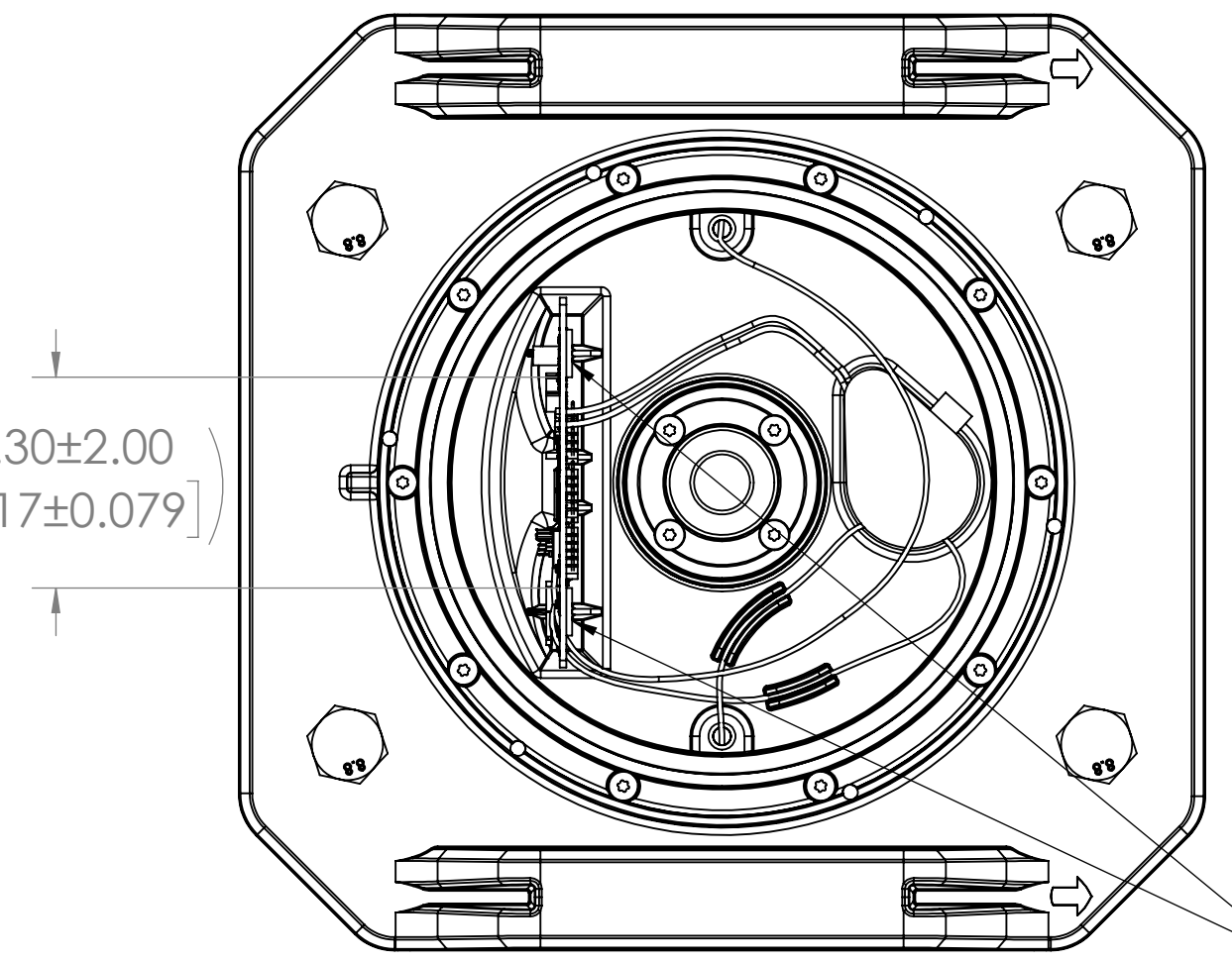
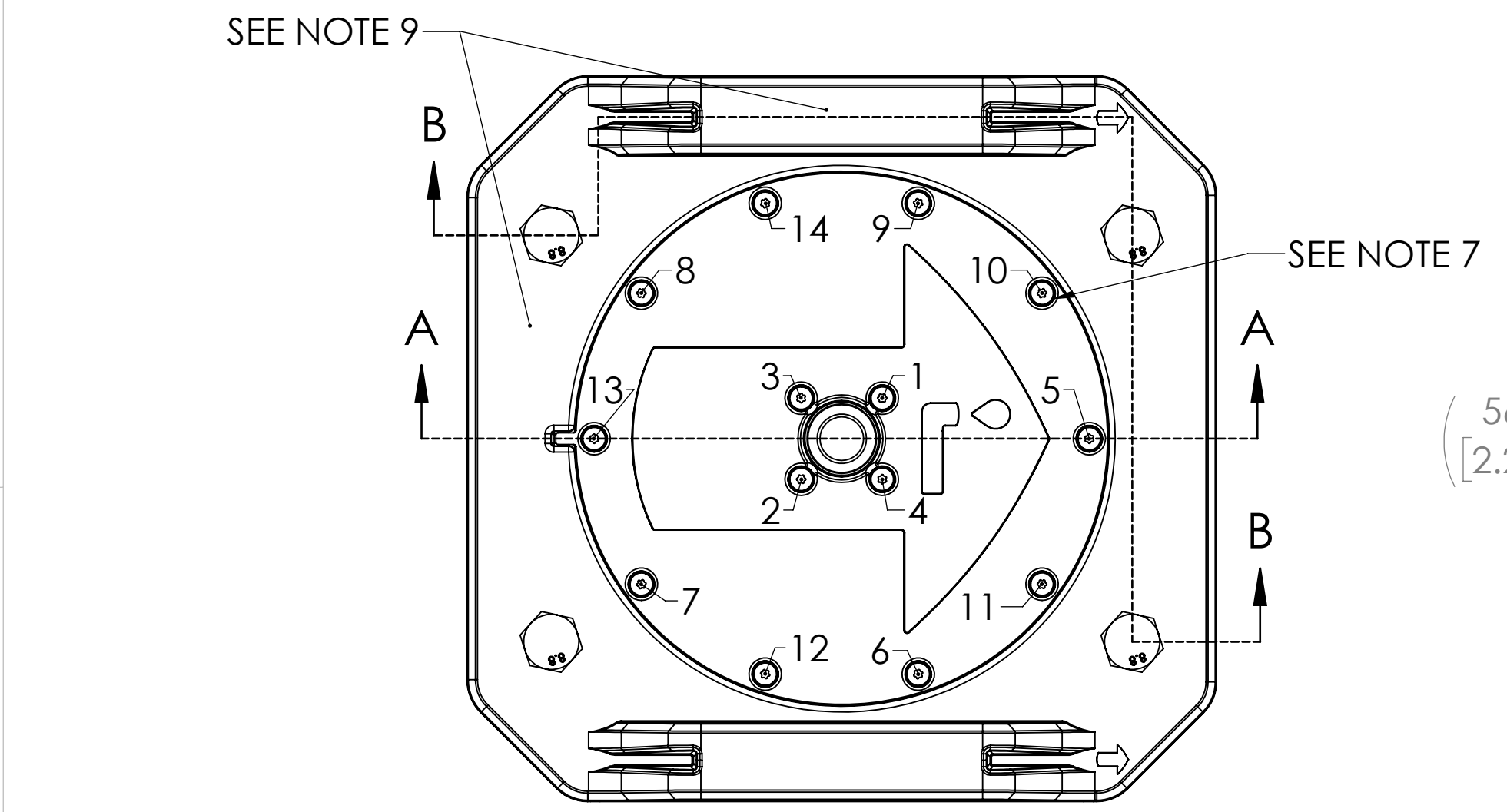
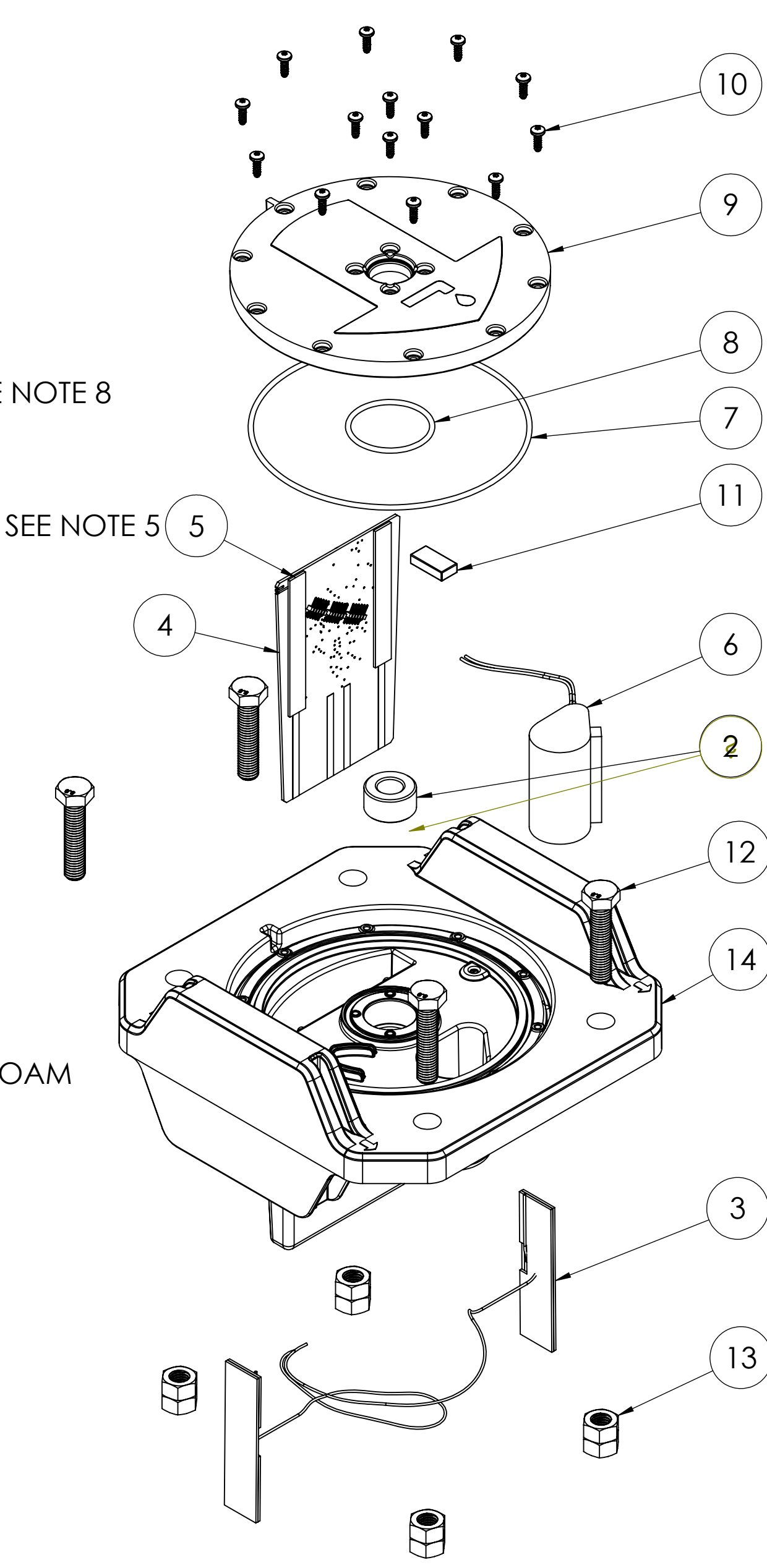


ITEM #	TITLE	SUPPLIER	PART_NUMBER	QTY.
14	HOUSING, MAIN, SENSOR, MARK II	TBD	TT10724-01	1
2	BUSHING, 15mm ID X 30mm OD	FABRICATOR	TT10728	1
3	ASSY, ANTENNA, FOAM	TWISTHINK	TT10729	2
4	ASSY, PCB SENSOR	TWISTHINK	TTA0113	1
5	FOAM, 1/16" THK X 1/2" WIDE X 95mm LONG, PCB	MCMaster-CARR (OR EQUIV)	93275K113 (OR EQUIV)	2
6	ASSY, BATTERY, SENSOR, MARK II	TADIRAN BATTERIES	TT10726-01	1
7	O-RING, LARGE, 156mm ID	McMASTER-CARR (OR EQUIV)	1302N205 (OR EQUIV)	1
8	O-RING, SMALL, 45mm ID	McMASTER-CARR (OR EQUIV)	9262K303 (OR EQUIV)	1
9	COVER, HSG, SENSOR, MARK II	TBD	TT10725-01	1
10	SCREW, M4.2 X 13MM THD FORMING PAN HD BLUNT TIP, T20 DRIVE	RPD	100952	14
11	MAGNET, .5" X 1" X .25" THK	K&J MAGNETICS, INC.	BX084PC-BLK	1
12	BOLT, M12 X 1.75P X 55mmLONG, PATIALLY THD, CLASS 8.8	McMASTER-CARR (OR EQUIV)	91280A727 (OR EQUIV)	4
13	NUT, HEX, M12 X 1.75P, CLASS 8	McMASTER-CARR (OR EQUIV)	90591A181 (OR EQUIV)	8
14	RESIN, POTTING COMPOUND	EPIC RESINS (OR EQUIV.)	S7302 (OR EQUIV.)	1


SEE NOTE 8

REVISIONS					
ECN #	REV	DESCRIPTION	BY	DATE	APPVD
-	A	UPDATED PICTORIALLY FOR PCB FOAM PLACEMENT, CORRECTED SPELLING IN NOTES; RELEASE FOR TOOLING	KJO	16-DEC-20	
-	B	RMV BATT CONNN TO PCB; UPDATE BATT WIRING	KJO	23-JAN-21	
-	C	BOLT 55m LONG PART #91280A727 WAS 100mm LONG PART #91280A739; RMV BATT CONNN NOTE SHT 4	KJO	14-MAR-21	
-	D	SCREW M4.2 X 13MM #100952 RPD WAS SCREW #8 X .500 #99512A316 MCMMASTER-CARR, REV//ADD NOTES, ADD NOTE 9 LOCATION & SCREW SEQUENCE IN TOP VIEW	KJO	25-OCT-22	



- NOTES: (UNLESS OTHERWISE SPECIFIED)
1. DIMENSIONS ARE MILLIMETERS [INCHES].
 2. BATTERY TO BE HARD WIRED TO LOCATION SHOWN (SEE SHT 4).
 3. MAGNET TO BE PACKAGED AS A SEPARATE ITEM AND MUST BE A PART OF THIS PRODUCT OFFERING.
REFER TO INSTALLATION INSTRUCTION FOR MAGNET APPLICATION.
 4. M12 BOLTS & NUTS SHALL BE PACKAGED AS A SEPARATE ITEM AND MUST BE A PART OF THIS PRODUCT OFFERING.
 5. FOAM ITEMS TO BE PLACED IN APPROXIMATE LOCATIONS SHOWN (56.30mm APART) EQUAL DISTANCE FROM CENTER OF PCB, AND ADHERED TO PCB. FOAM SHALL LINE UP WITH RIBS IN HOUSING TO AID IN SECURING THE PCB PROPERLY AND LOCATED APPROXIMATELY 1/4" (6.35mm) FROM TOP EDGE OF PCB.
 6. M4.2 X 13 SCREW TORQUE: 19±2 Kg*CM.
 7. SCREWS SHALL BE TORQUED IN SEQUENCE NOTED IN TOP VIEW.
 8. ESTIMATED POTTING COMPOUND VOLUME: 153,025 mm³ COMBINED.
ALTERNATE COMPOUND MUST HAVE EQUIVALENT DIELECTRIC PROPERTIES.
 9. LASER ETCH 6 DIGIT MANUFACTURING CODE IN LOCATIONS SHOWN.
SIZE NOT TO EXCEED 18MM X 38MM.

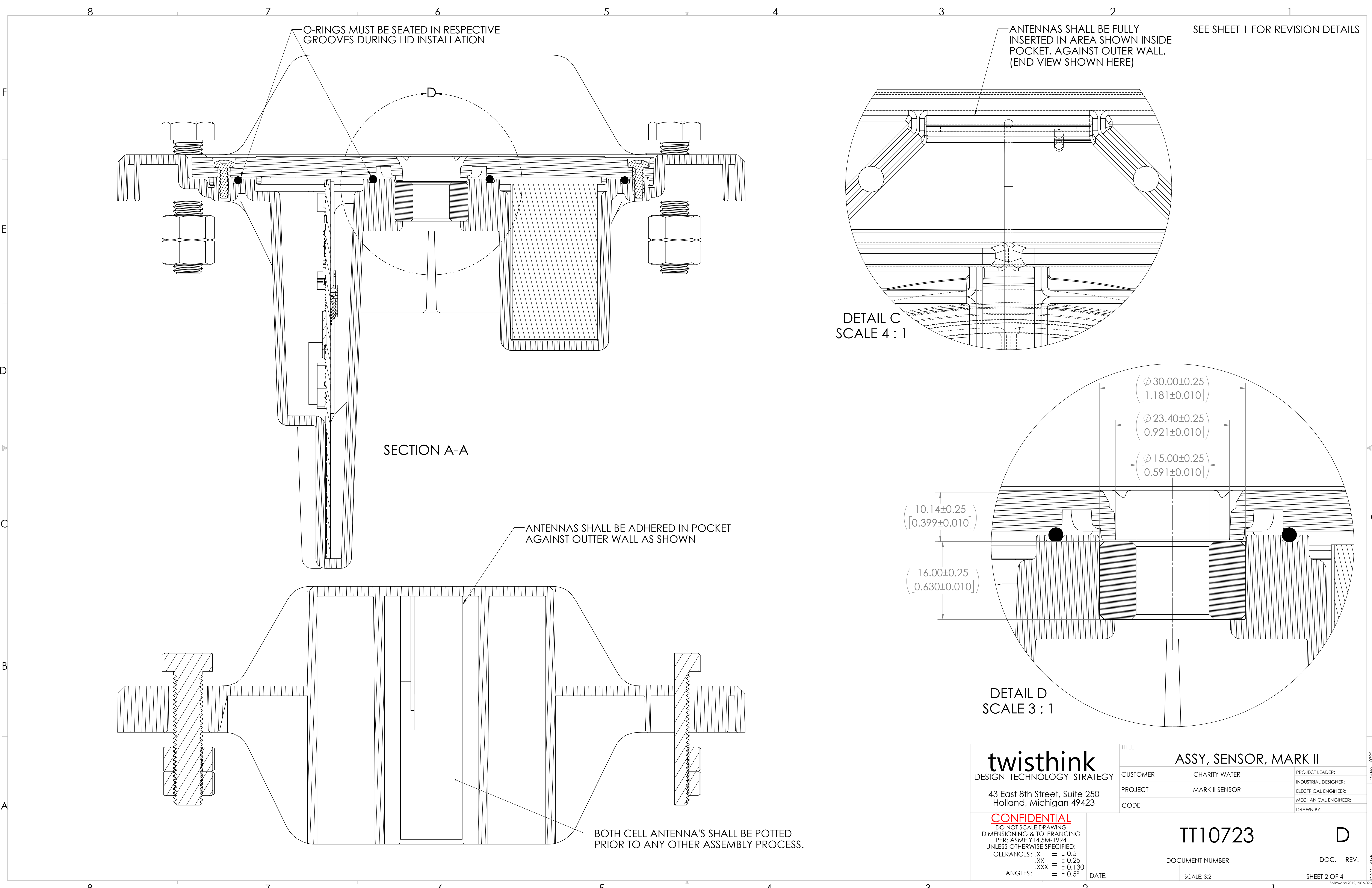
TT10723-01	ASSY, SENSOR, MARK II
PART NUMBER	DESCRIPTION

 <p>twisthink</p> <p>DESIGN TECHNOLOGY STRATEGY</p> <p>43 East 8th Street, Suite 250 Holland, Michigan 49423</p>		<p>CODE</p>	
<p>PROJECT</p>		<p>MARK II SENSOR</p>	
<p>CUSTOMER</p>		<p>CHARITY WATER</p>	
<p>DATE:</p>		<p>SCALE: 1:2</p>	
<p>INDUSTRIAL DESIGNER:</p>		<p>PROJECT LEADER:</p>	
<p>ELECTRICAL ENGINEER:</p>		<p>MECHANICAL ENGINEER:</p>	
<p>DO NOT SCALE DRAWING DIMENSIONING & TOLERANCING PER: ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: TOLERANCES: .X = ± 0.5 .XX = ± 0.25 .XXX = ± 0.130 ANGLES: = ± 0.5°</p>		<p>DOC. REV.</p>	
<p>CONFIDENTIAL</p>		<p>TT10723</p>	
<p>DO NOT SCALE DRAWING DIMENSIONING & TOLERANCING PER: ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: TOLERANCES: .X = ± 0.5 .XX = ± 0.25 .XXX = ± 0.130 ANGLES: = ± 0.5°</p>		<p>SHEET 1 OF 4</p>	

JOB No.: J0795

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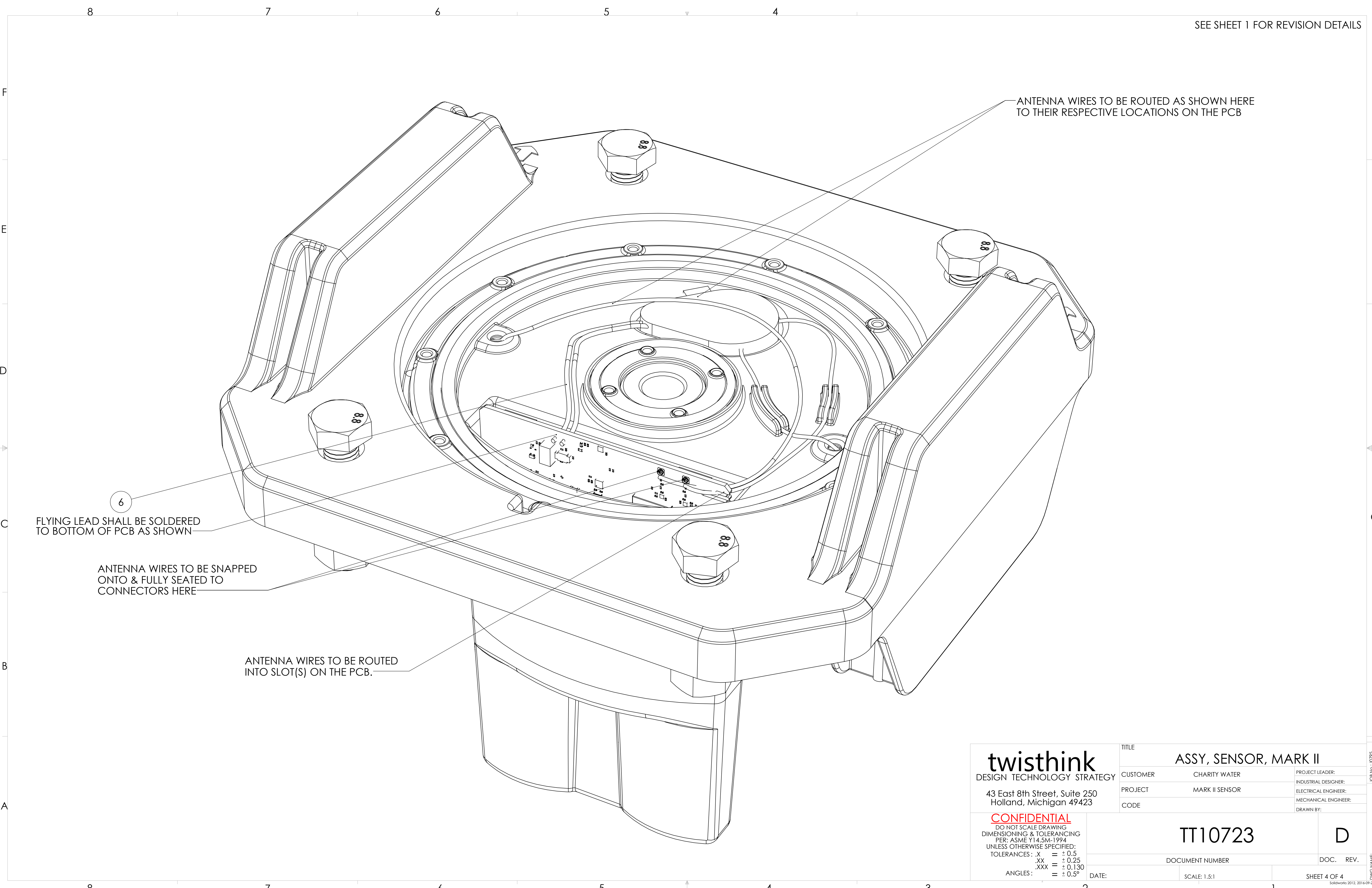
DWG NAME:





-2X - FEED THRU HOLES WILL NEED TO BE SEALED OFF PRIOR TO POTTING TO CONTAIN POTTING TO BOTTOM SIDE ONLY

OF 4



SEE SHEET 1 FOR REVISION DETAILS

6
FLYING LEAD SHALL BE SOLDERED
TO BOTTOM OF PCB AS SHOWN

ANTENNA WIRES TO BE SNAPPED
ONTO & FULLY SEATED TO
CONNECTORS HERE

ANTENNA WIRES TO BE ROUTED
INTO SLOT(S) ON THE PCB.

ANTENNA WIRES TO BE ROUTED AS SHOWN HERE
TO THEIR RESPECTIVE LOCATIONS ON THE PCB

<div><div>twistthink</div><div>DESIGN TECHNOLOGY STRATEGY</div><div>43 East 8th Street, Suite 250 Holland, Michigan 49423</div><div>CONFIDENTIAL</div><div>DO NOT SCALE DRAWING DIMENSIONING & TOLERANCING PER: ASME Y14.5M-1994 UNLESS OTHERWISE SPECIFIED: TOLERANCES : .X = ± 0.5 .XX = ± 0.25 .XXX = ± 0.130 ANGLES : = ± 0.5°</div></div>	TITLE ASSY, SENSOR, MARK II	
	CUSTOMER CHARITY WATER	PROJECT LEADER:
	PROJECT MARK II SENSOR	INDUSTRIAL DESIGNER:
	CODE	ELECTRICAL ENGINEER:
		MECHANICAL ENGINEER:
DOCUMENT NUMBER TT10723		DRAWN BY:
DATE:		REV.
SCALE: 1.5:1		SHEET 4 OF 4

DWG NAME

JOB No.: 1075