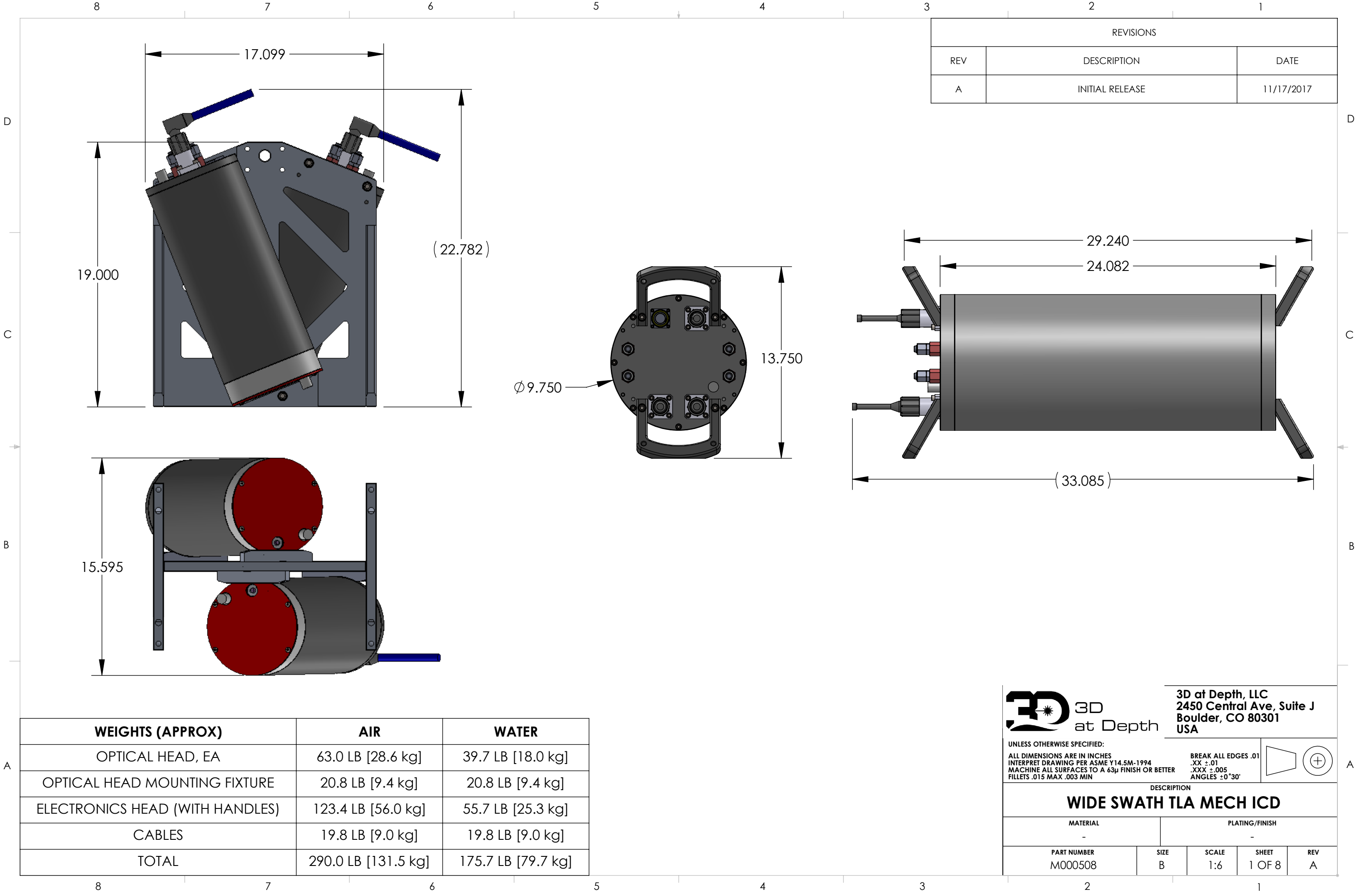
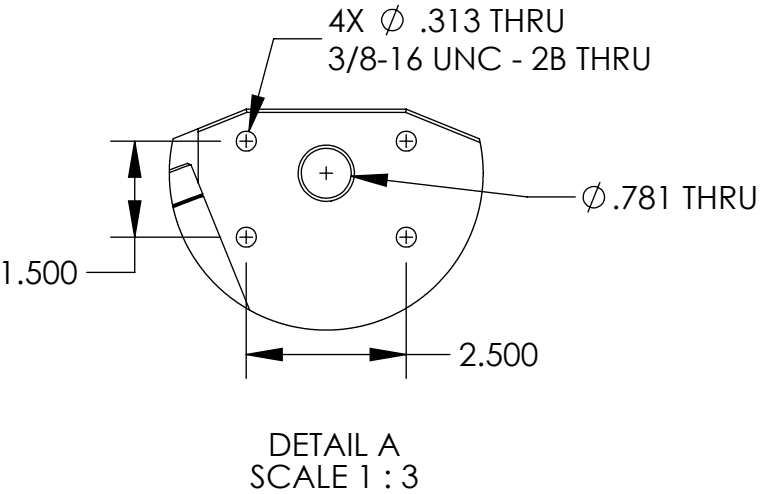
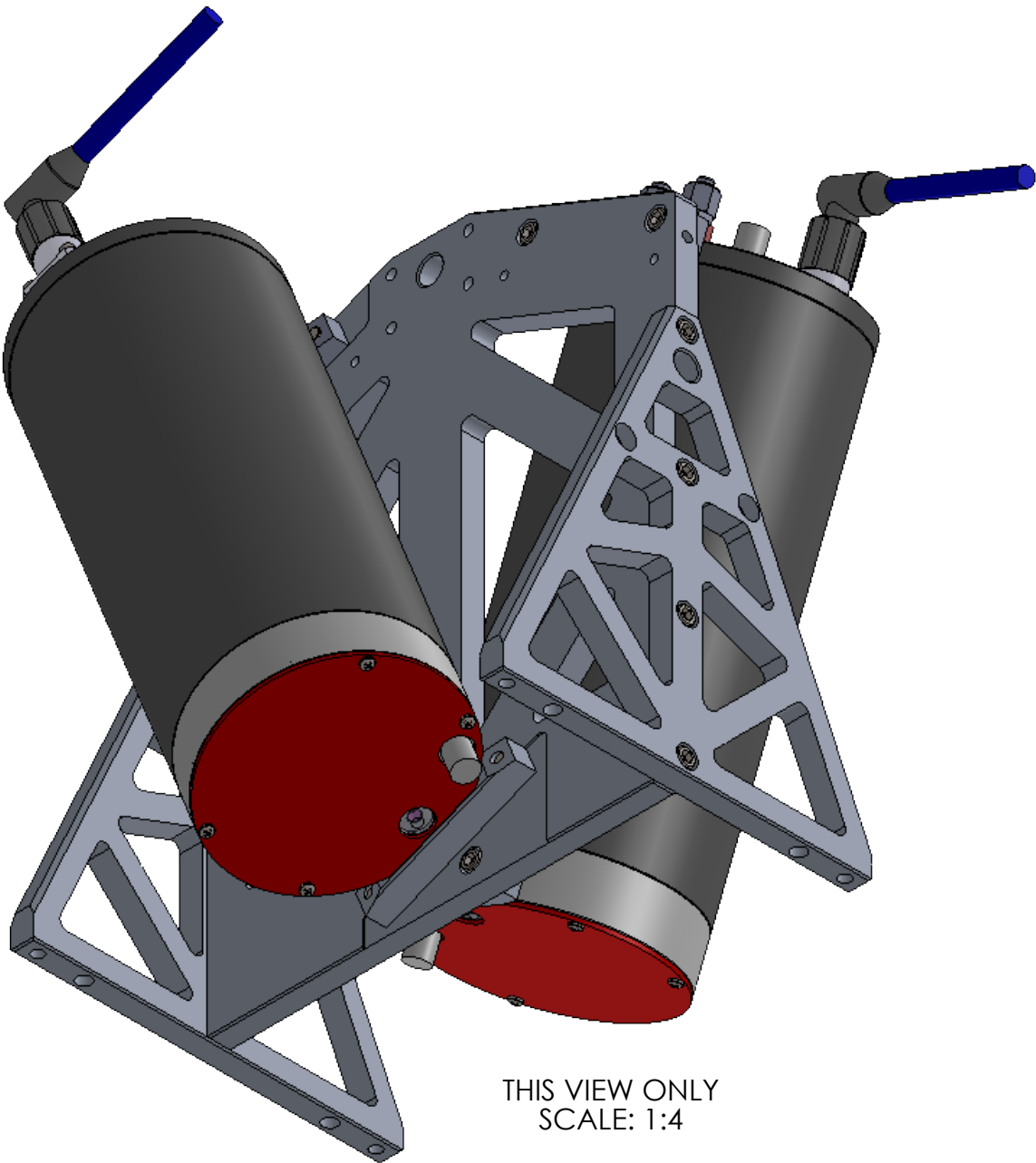
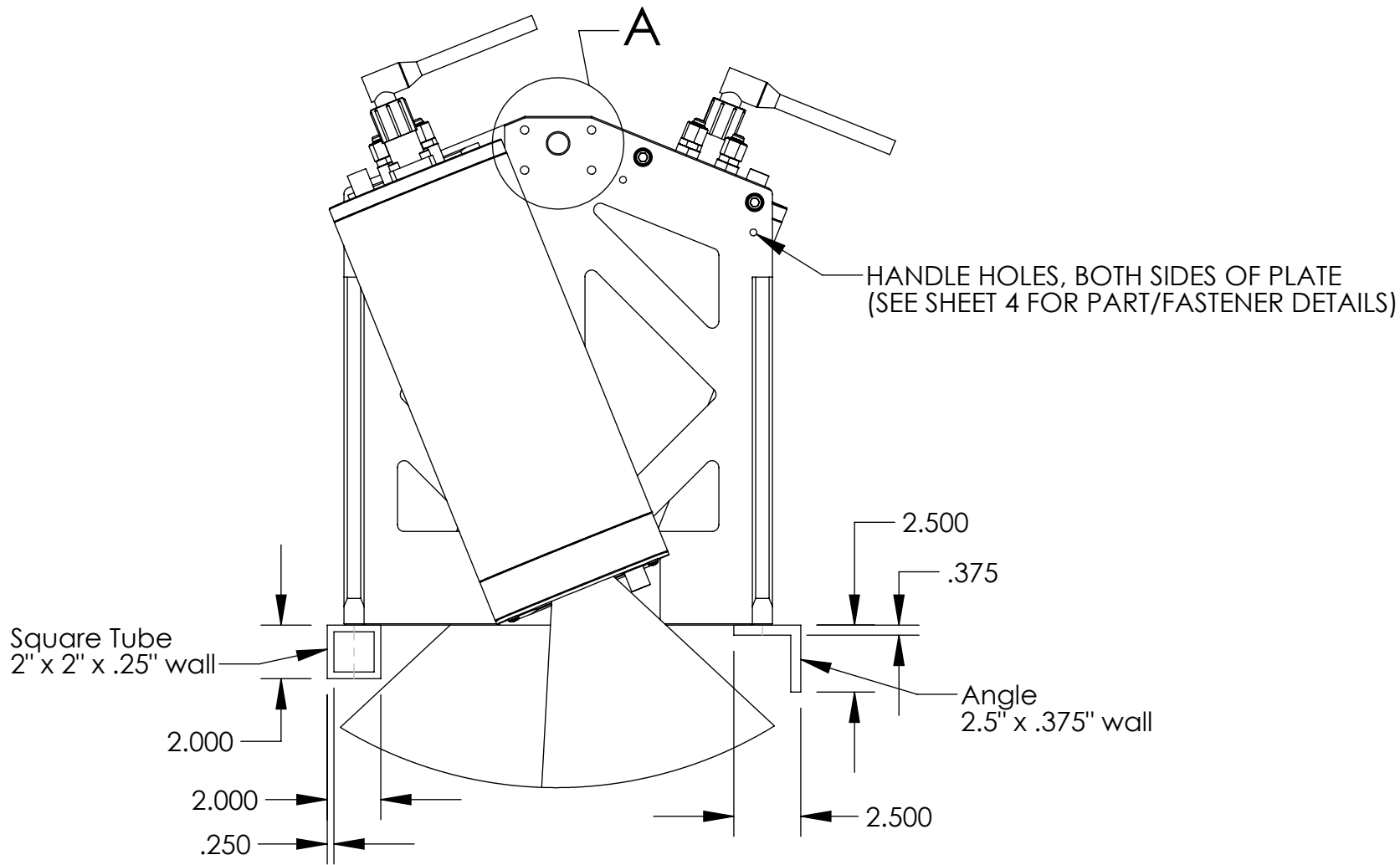




NOTES:

1. Square Tube and Angle shown for reference to indicate possible ROV mounting supports.
2. Care should be taken when designing the ROV bracketry to support the Wide Swath Dual Head Optical Assembly to ensure the laser swaths are not clipped. Refer to solid model for swath envelope.
3. Angle provides the greatest swath clearance and is recommended.
4. Swath shown is in water (see SHEET 5)



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USA

UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
INTERPRET DRAWING PER ASME Y14.5M-1994
MACHINE ALL SURFACES TO A 63 μ FINISH OR BETTER
FILLETS .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX $\pm$.01
.XXX $\pm$.005
ANGLES $\pm$ 0°30'

DESCRIPTION				
WIDE SWATH TLA MECH ICD				
MATERIAL		PLATING/FINISH		
-		-		
PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:6	2 OF 8	A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	-	WIDE SWATH OPTICAL BOTTLE	1
2	M000413	WIDE SWATH SAFETY COVER	1
3	M000414	WIDE SWATH SAFETY LIGHT LENS	1
4	DDC13F	MacArtney 13-pin dummy plug, female	1
5	LS2000	MacArtney Locking sleeve, female (BLACK)	1
6	M000249	ANODE	2
7	92949A103	McMaster Button Head Screw, #4-40 x .125" L, Stainless Steel, 18-8	3
8	91772A836	McMaster Pan Head Screw, #10-32 x 1.50" L, Stainless Steel, 18-8	4
9	1150488-127	Teledyne RF Bulkhead Connector	2
10	1102109-501	Teledyne RF Backup O-Ring Retainer	2
11	2-012	O-ring, 2-012, Buna-N, 70 durometer	2
12	1104001-101	Teledyne RF Pressure Cap	2
13	2-013	O-ring, 2-013, Buna-N, 70 durometer	2*

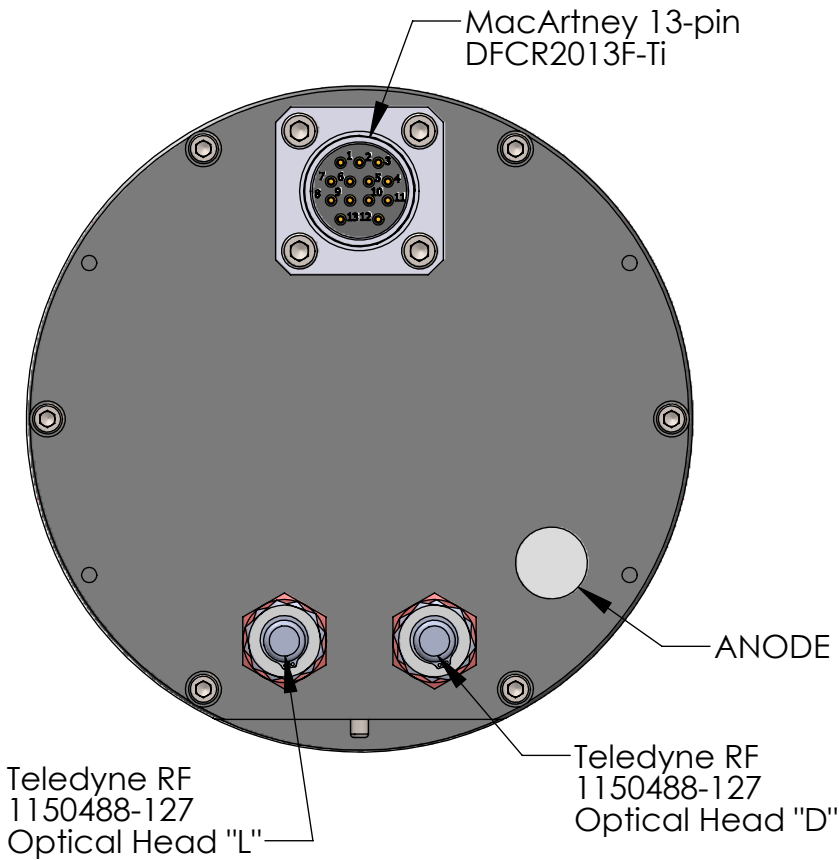
* -013 o-ring used on both Teledyne RF pressure cap and cable receptacle

D

C

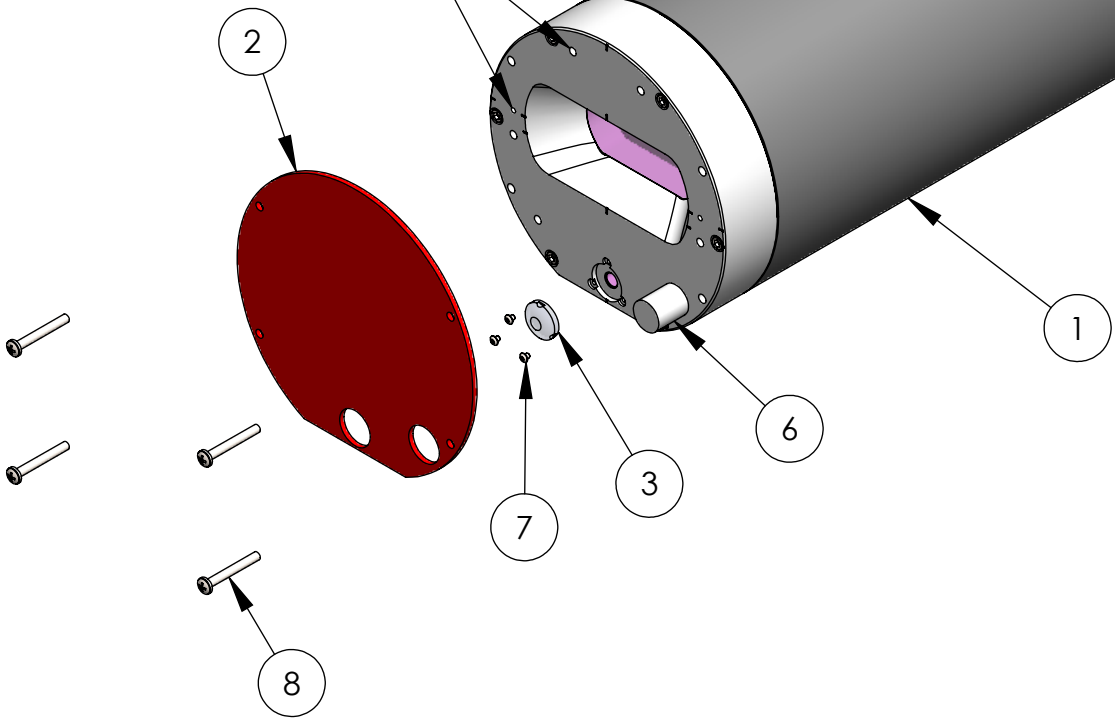
B

A

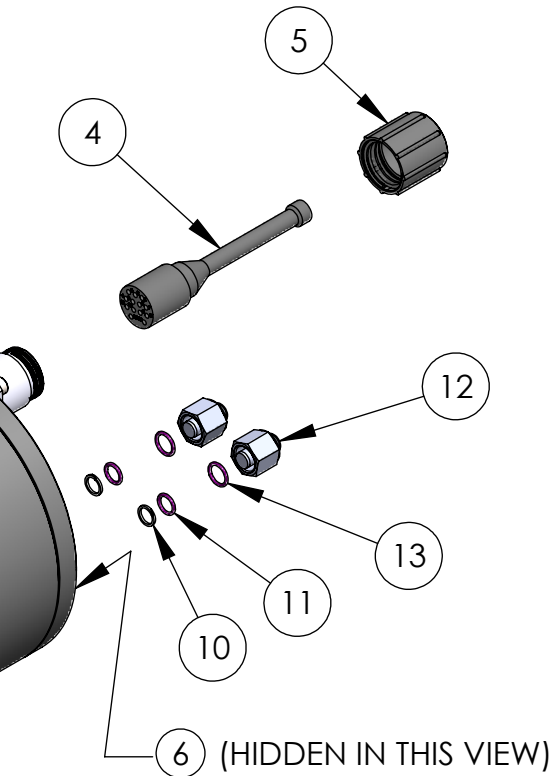


THIS VIEW ONLY
SCALE: 1:2

TURN MIRROR HOLES
4X TAPPED 1/4-20
2X PIN Ø .125



QTY/EA OPTICAL HEAD

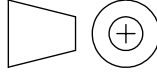


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FILLET .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'



DESCRIPTION
WIDE SWATH TLA MECH ICD

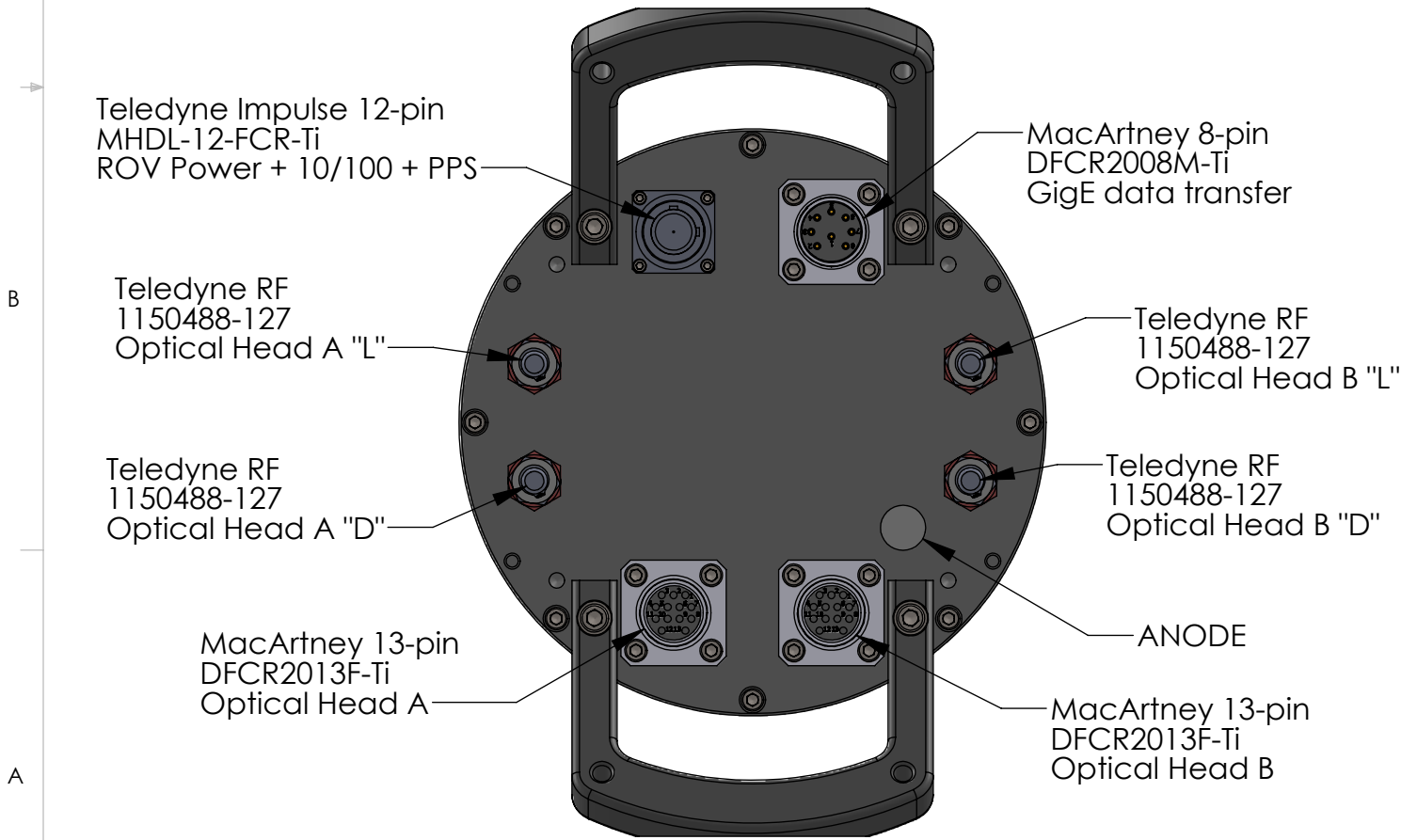
MATERIAL PLATING/FINISH

-

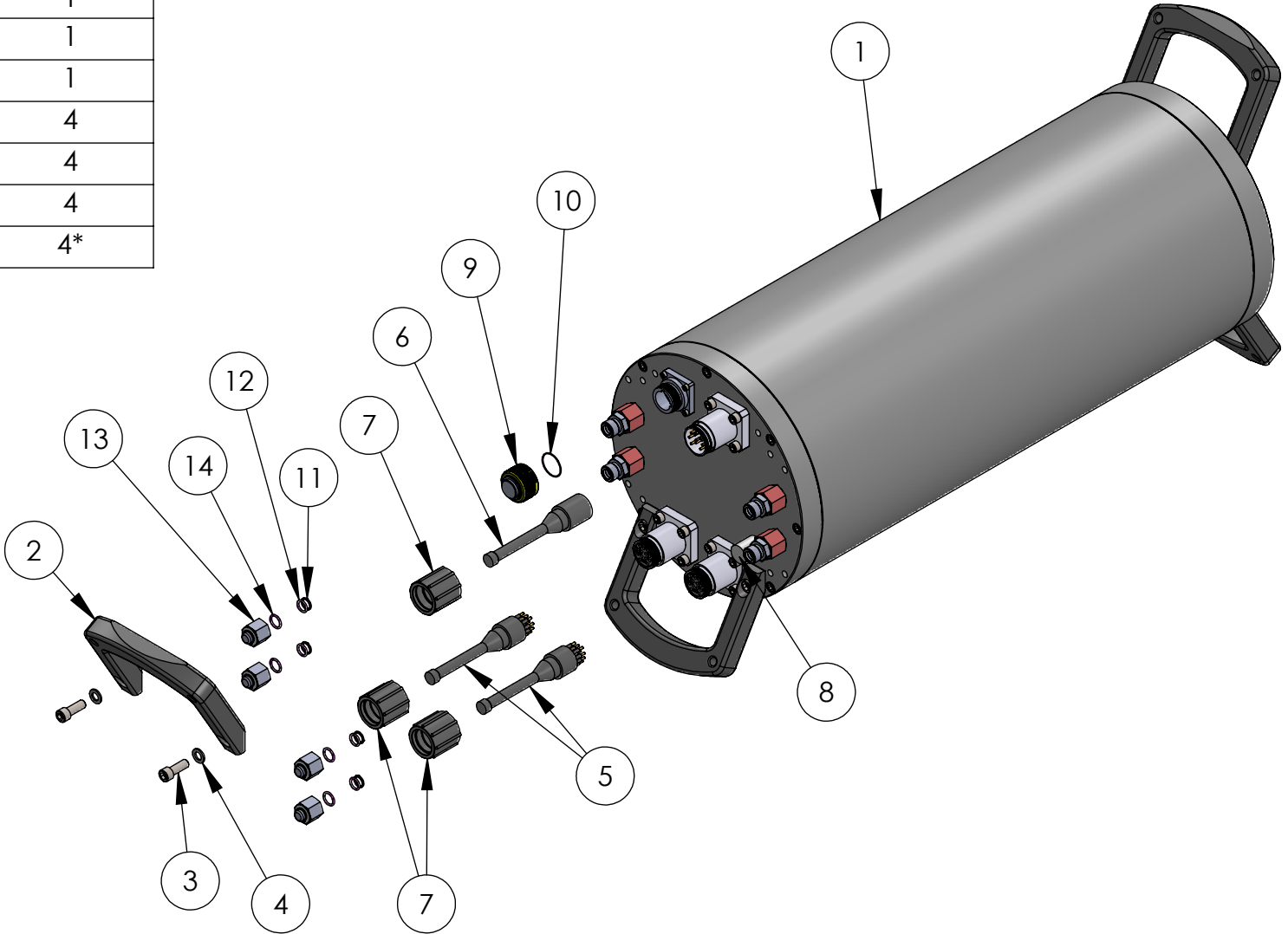
PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:4	3 OF 8	A

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	-	WIDE SWATH ELECTRONICS BOTTLE	1
2	M000464	WIDE SWATH ELECTRONICS BOTTLE HANDLE	4
3	92196A582	McMaster SHCS, 5/16-18 x .875", Stainless Steel, 18-8	8
4	94589A340	McMaster washer .328" ID, .563" OD, .063" THK SS 18-8	8
5	DDC13M	MacArtney 13-pin dummy plug male	2
6	DDC8F	MacArtney 8-pin dummy plug female	1
7	LS2000	MacArtney Locking sleeve, female (BLACK)	3
8	M000249	ANODE	1
9	MHDL-SCP	Teledyne MHDL-SCP dummy plug	1
10	R00787-039-70	Teledyne MHDL-CCP/SCP face-seal o-ring 5-273	1
11	1102109-501	Teledyne RF Backup O-Ring Retainer	4
12	2-012	O-ring, 2-012, Buna-N, 70 durometer	4
13	1104001-101	Teledyne RF Pressure Cap	4
14	2-013	O-ring, 2-013, Buna-N, 70 durometer	4*

* -013 o-ring used on both Teledyne RF pressure cap and cable receptacle



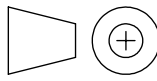
THIS VIEW ONLY
SCALE: 1:3



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FILLETS .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'



DESCRIPTION
WIDE SWATH TLA MECH ICD

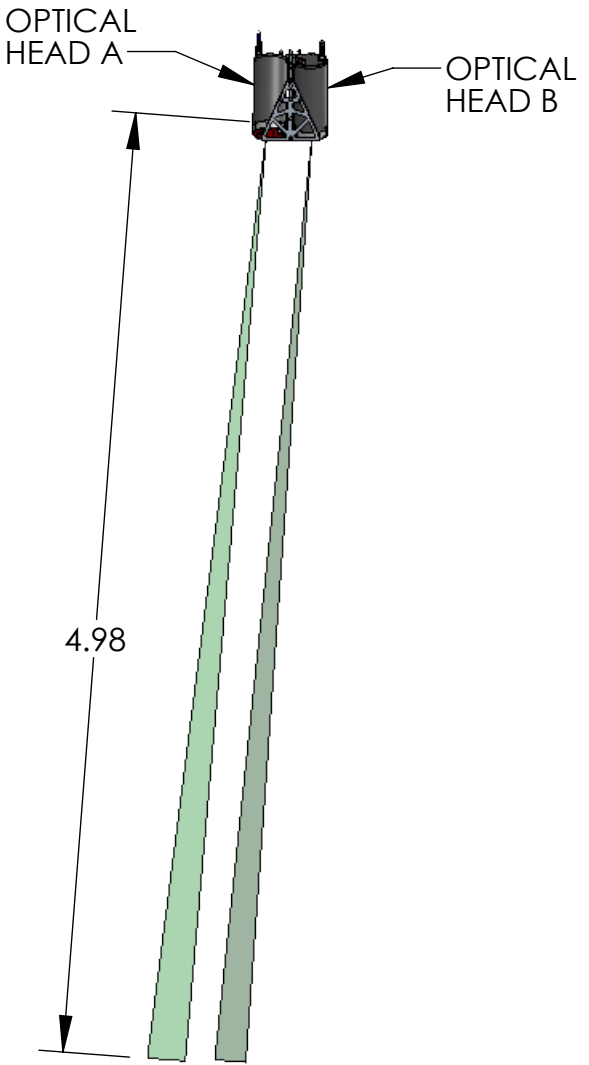
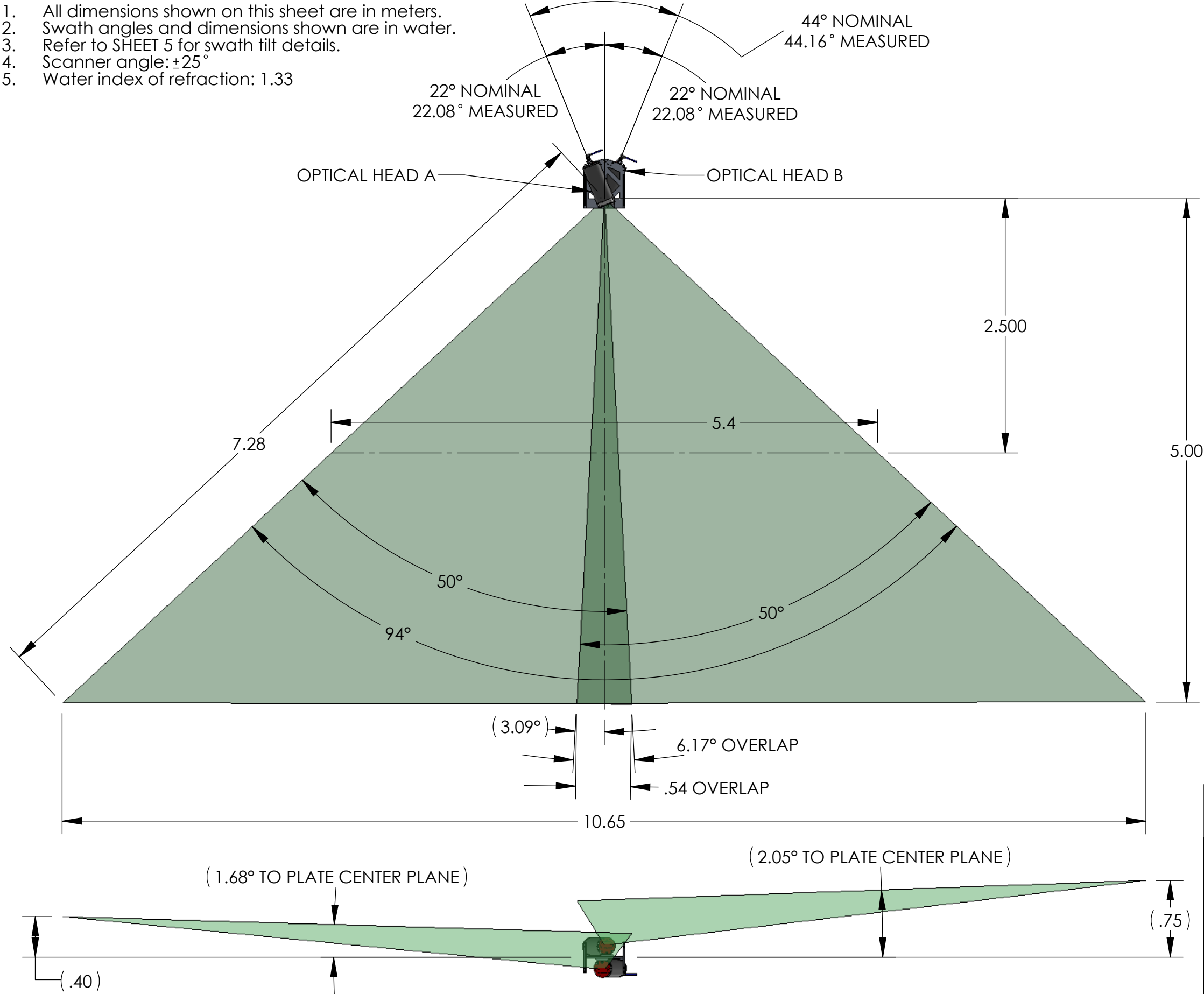
MATERIAL PLATING/FINISH

- -

PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:6	4 OF 8	A

NOTES:

1. All dimensions shown on this sheet are in meters.
2. Swath angles and dimensions shown are in water.
3. Refer to SHEET 5 for swath tilt details.
4. Scanner angle: $\pm 25^\circ$
5. Water index of refraction: 1.33





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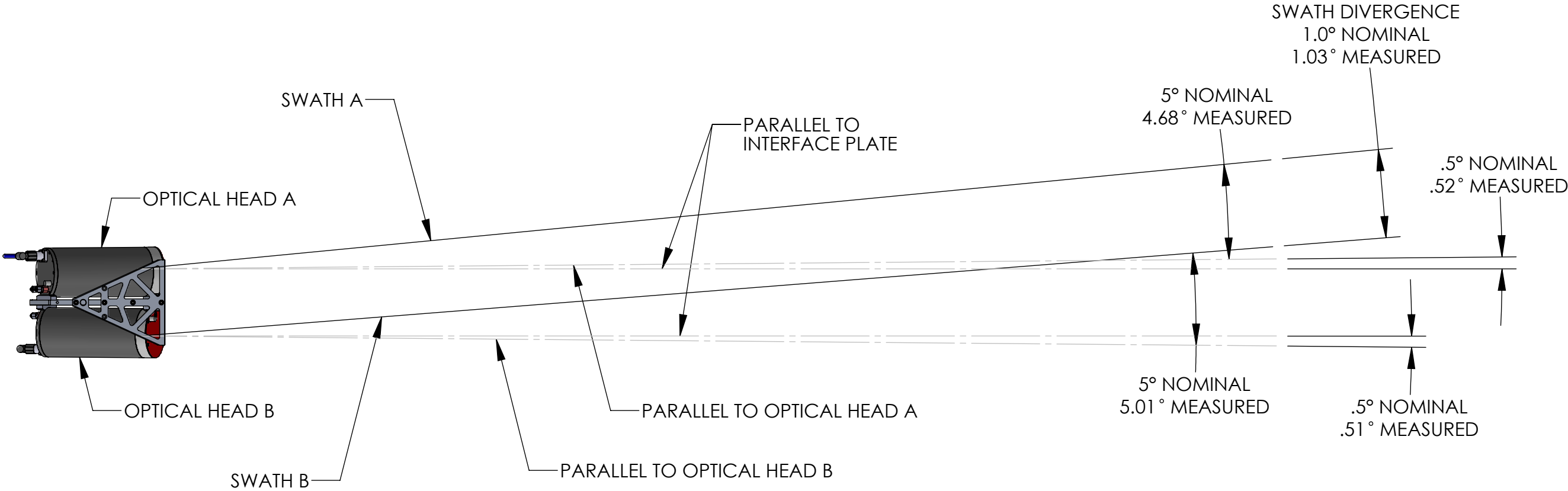
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FILLETS .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'

DESCRIPTION				
WIDE SWATH TLA MECH ICD				
MATERIAL		PLATING/FINISH		
-		-		
PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:40	5 OF 8	A

NOTES:

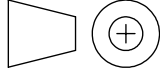
- 1. Swaths shown normal to page for clarity.
- 2. Refer to SHEET 5 for additional swath details.



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FILLETS .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'

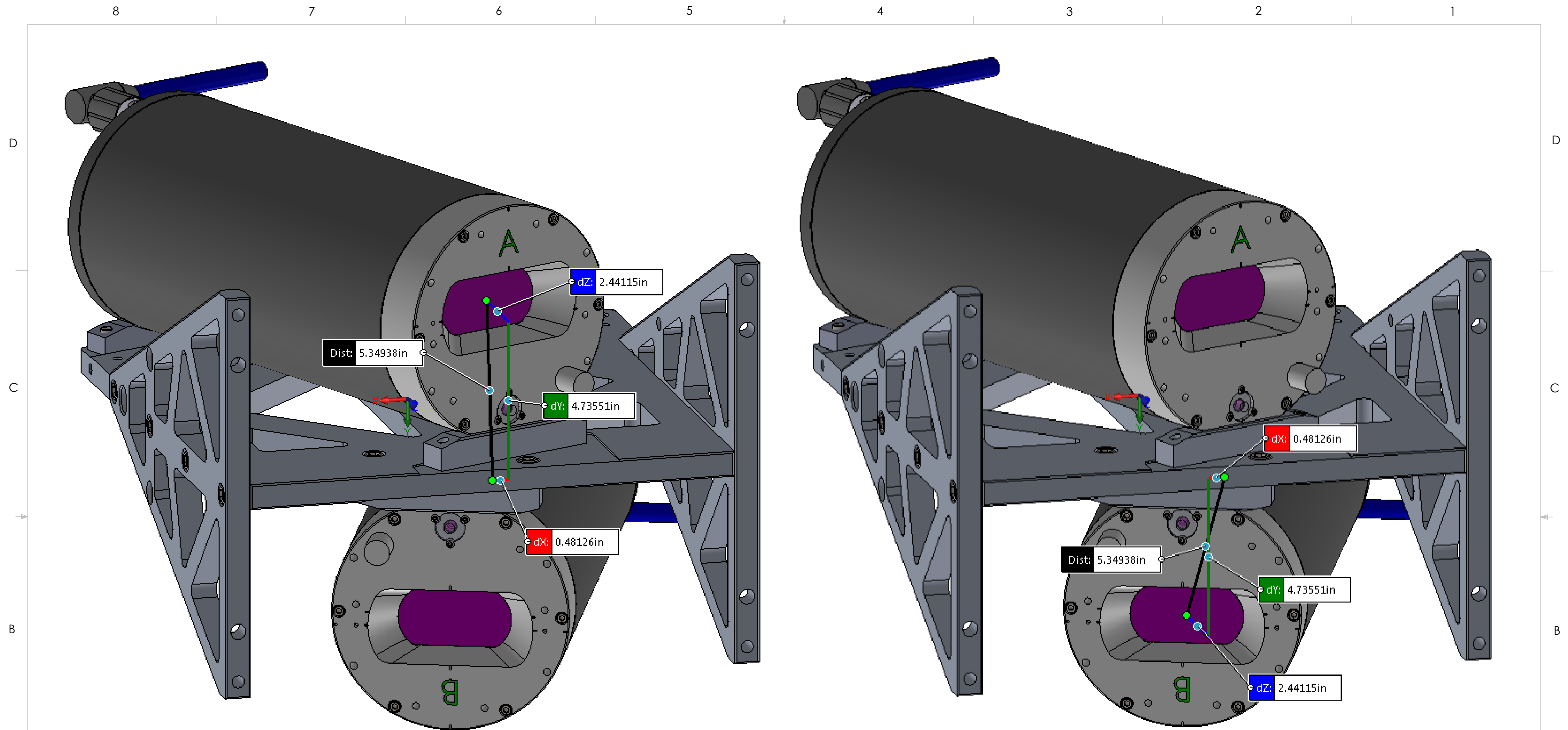


DESCRIPTION
WIDE SWATH TLA MECH ICD

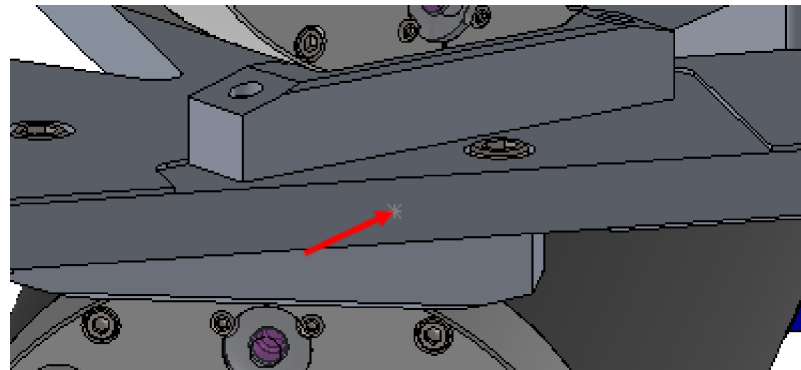
MATERIAL
-

PLATING/FINISH
-

PART NUMBER M000508	SIZE B	SCALE 1:16	SHEET 6 OF 8	REV A
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- NOTES:
1. Global coordinate offsets of the Wide Swath Optical Head are shown.
 2. Distances are taken from the center points of the Optical A and B windows to the center point on the bottom face of the Mounting Fixture.
 3. Refer to solid model for additional offsets where needed.





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FILLET .015 MAX .003 MIN

BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'

DESCRIPTION

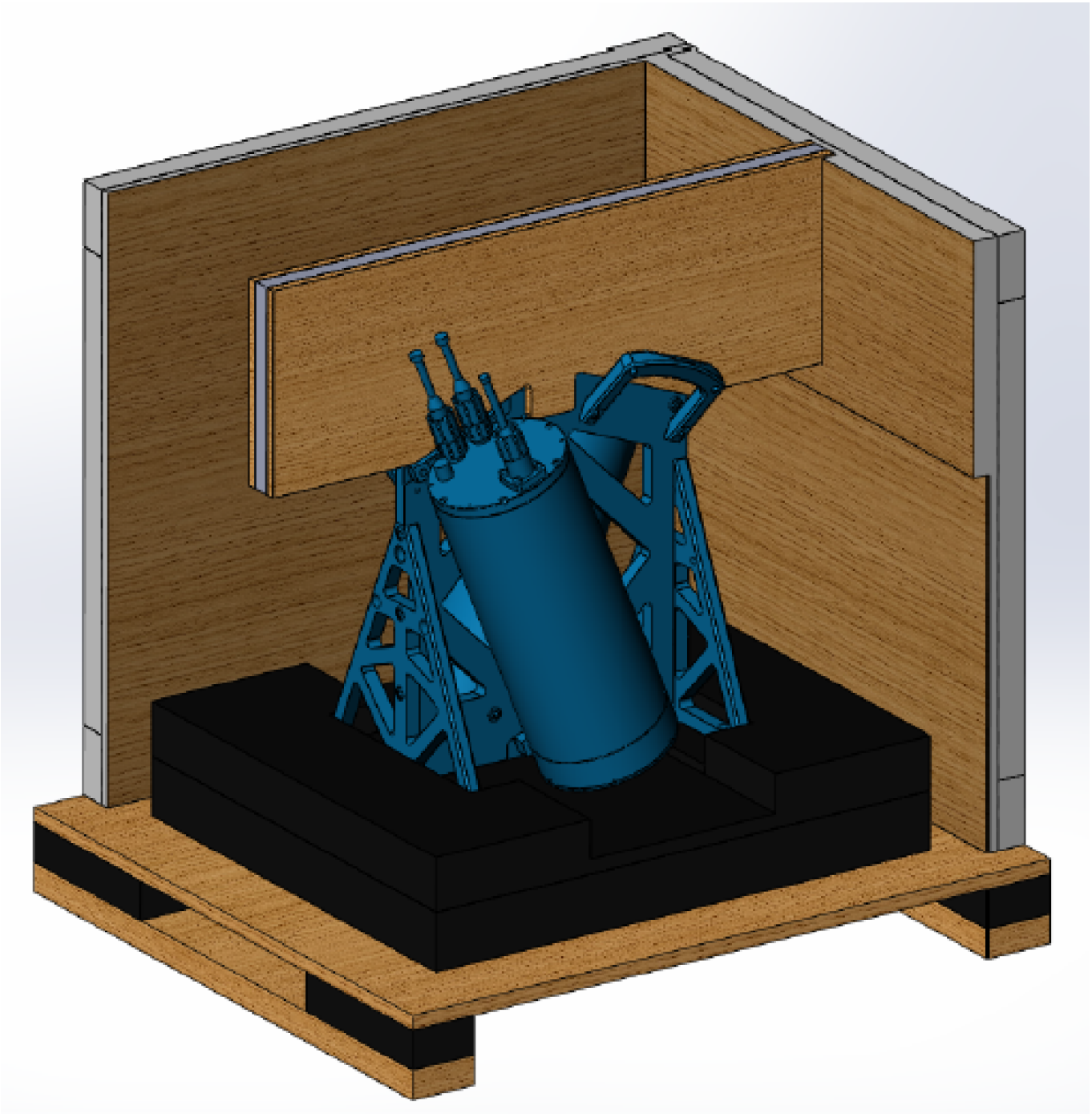
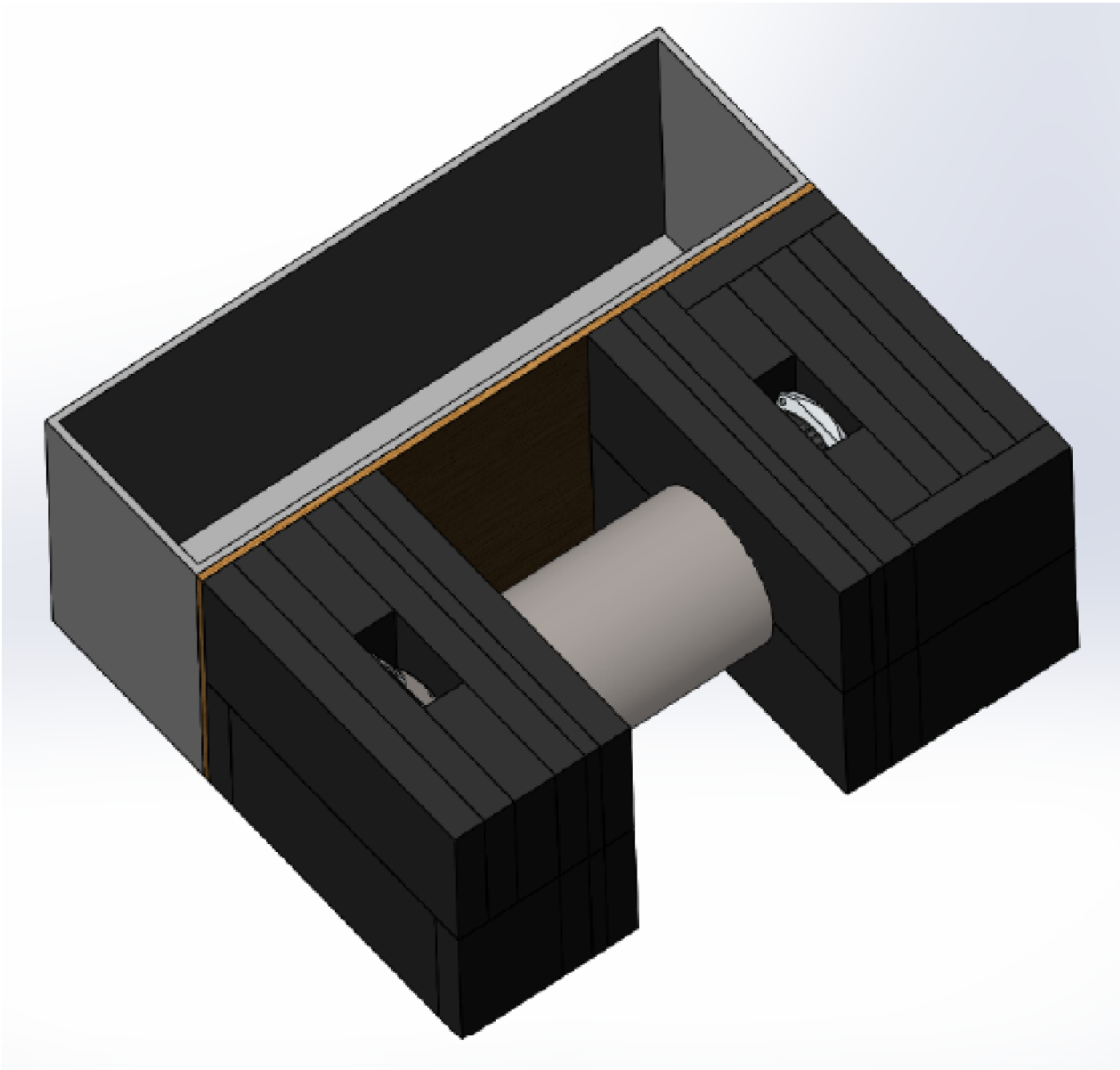
WIDE SWATH TLA MECH ICD

MATERIAL		PLATING/FINISH		
-		-		
PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:16	7 OF 8	A

Wide Swath Shipping Crate General Information

Wide Swath Dual Optical Head Assembly
Single wooden crate, foam cushioned
Outside dimensions L 32" x W 36" x H 39"
Floated plywood deck w/ foam cushioned runners
Crate weight ~150 lb
Total crate weight ~300 lb
Pallet jack movable
All lumber is HT and ISPM 15 compliant (stamped)

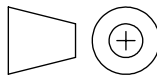
Wide Swath Electronics Assembly
Single wooden crate, foam cushioned
Separate compartment for cables, laptop, FPS, etc
Outside dimensions L 40" x W 45" x H 26"
Floated plywood deck w/ foam cushioned runners
Crate weight ~175 lb
Total crate weight ~400 lb
Pallet jack movable
All lumber is HT and ISPM 15 compliant (stamped)



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BREAK ALL EDGES .01
.XX ±.01
.XXX ±.005
ANGLES ±0°30'



DESCRIPTION
WIDE SWATH TLA MECH ICD

MATERIAL PLATING/FINISH

- -

PART NUMBER	SIZE	SCALE	SHEET	REV
M000508	B	1:16	8 OF 8	A