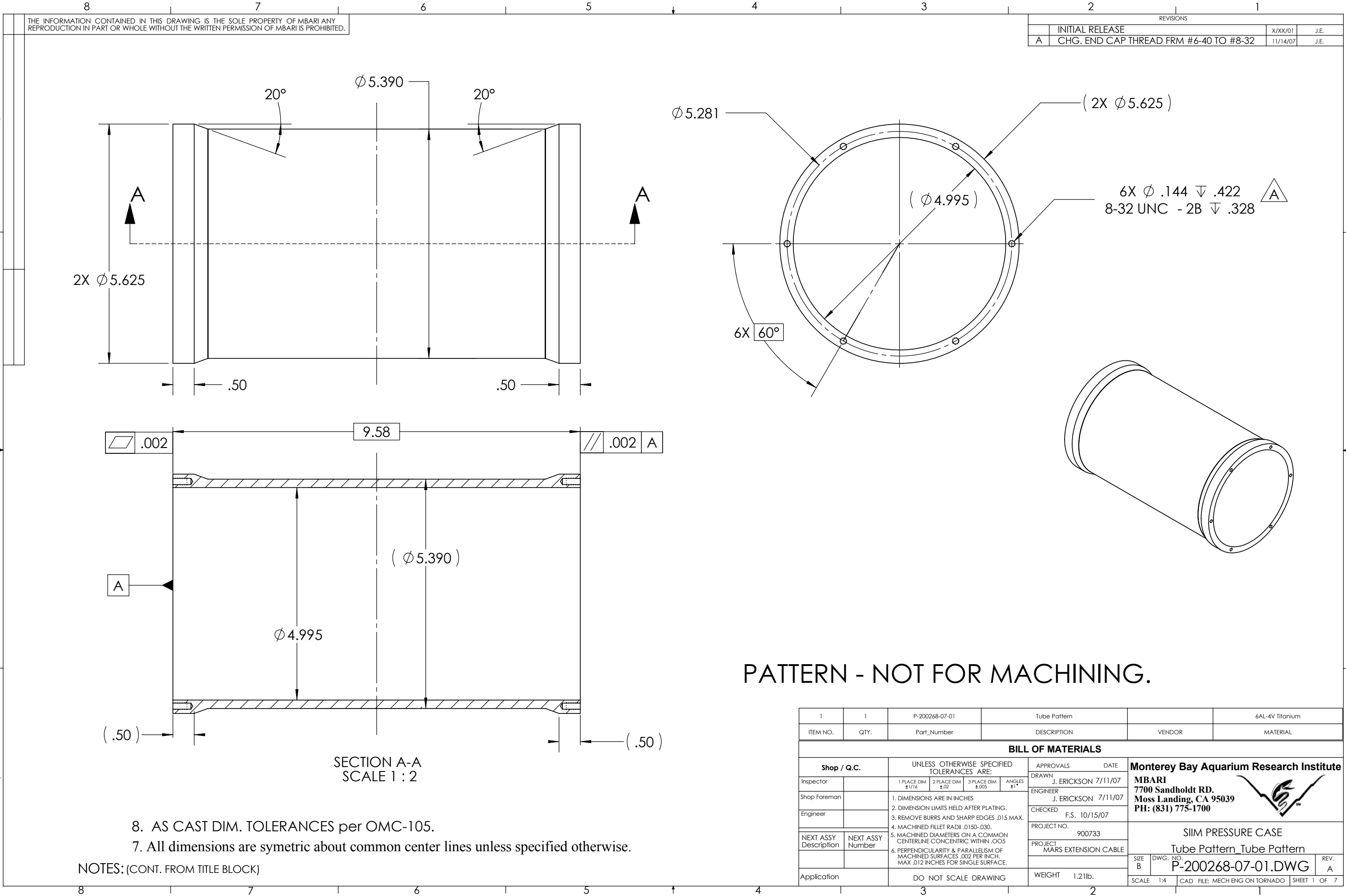
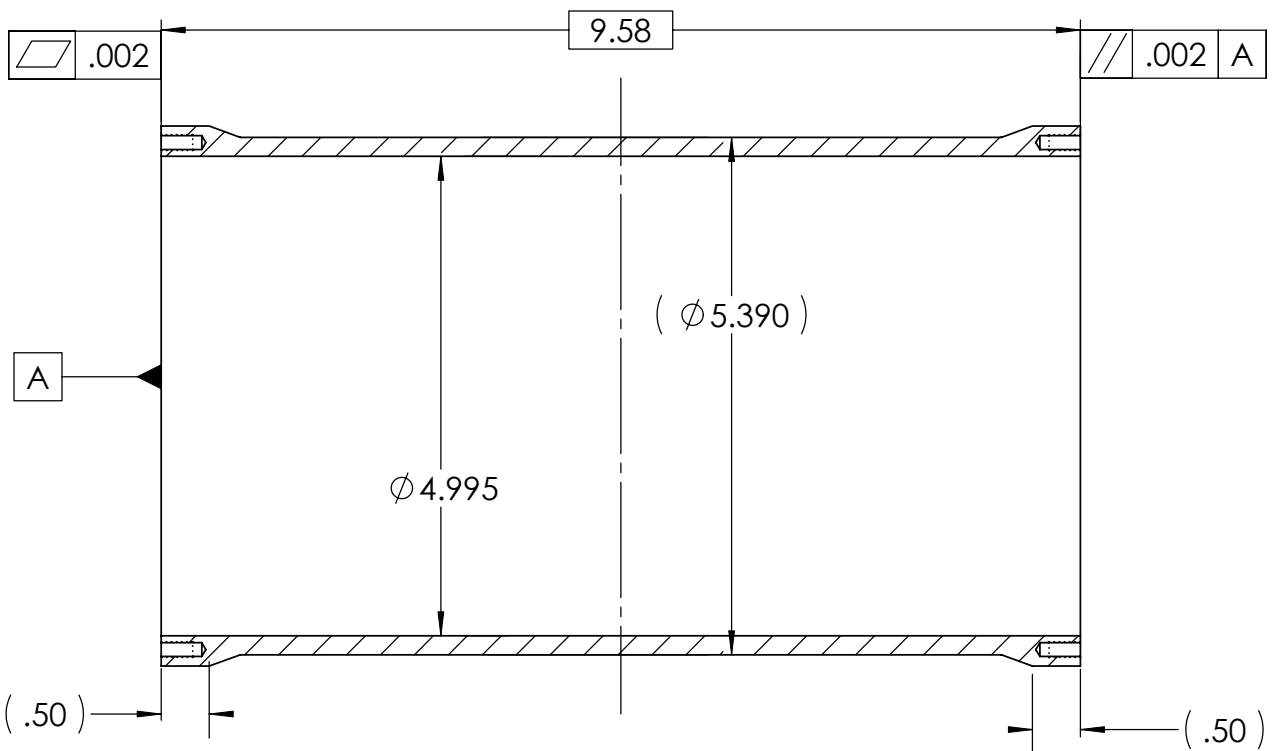
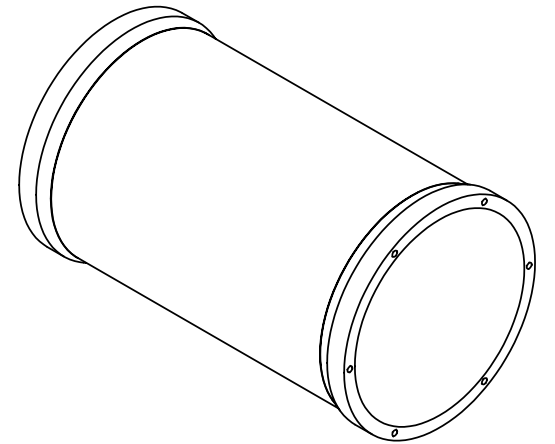
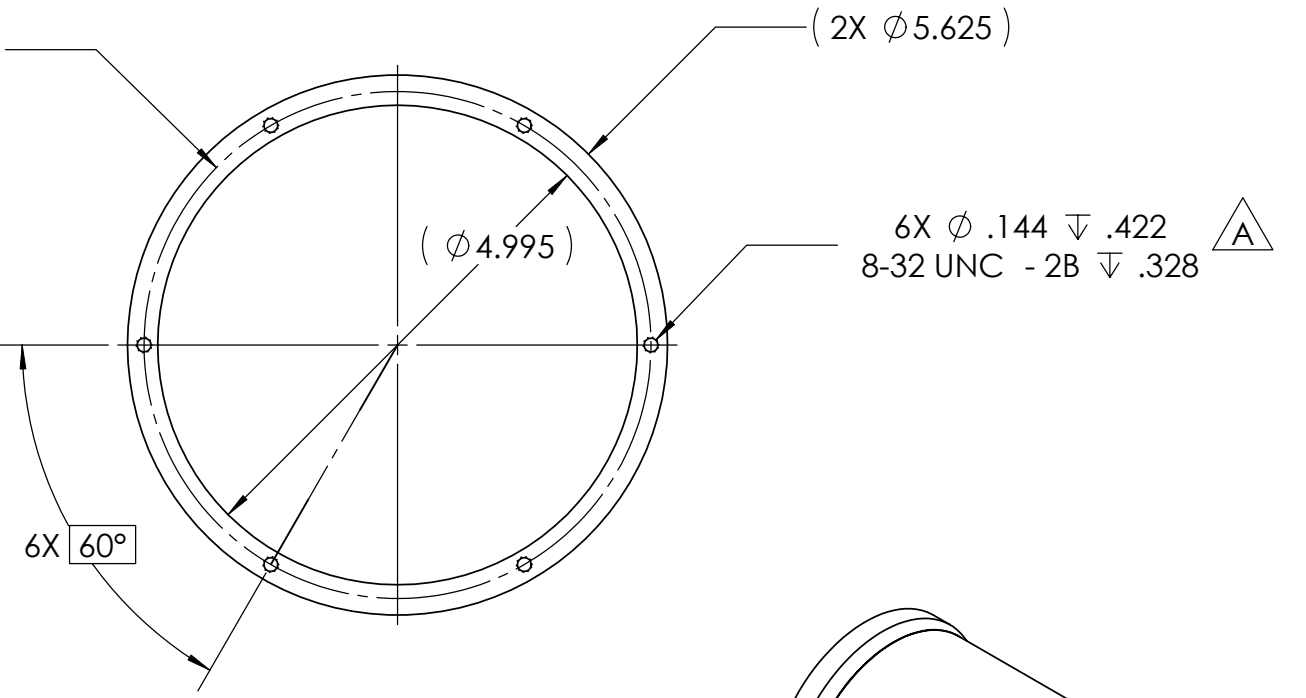
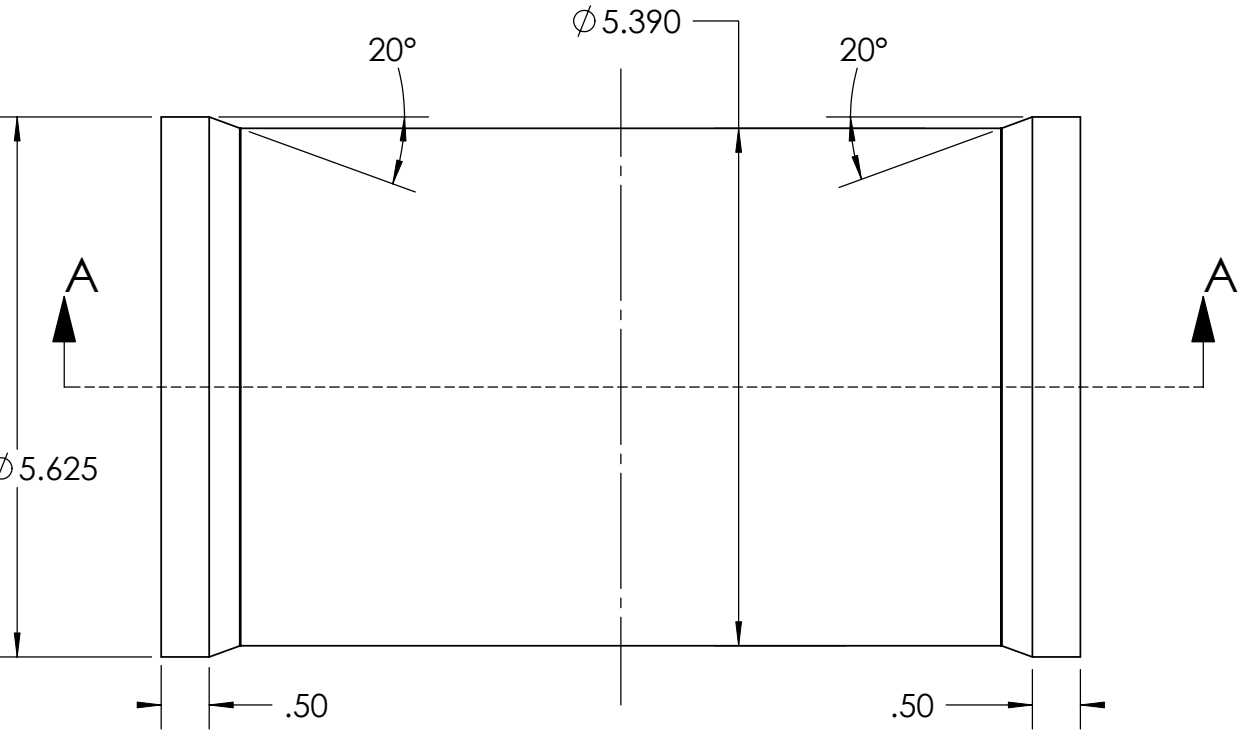




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REVISIONS			
	INITIAL RELEASE	X/XX/01	J.E.
A	CHG. END CAP THREAD FRM #6-40 TO #8-32	11/14/07	J.E.



PATTERN - NOT FOR MACHINING.

8. AS CAST DIM. TOLERANCES per OMC-105.
7. All dimensions are symetric about common center lines unless specified otherwise.

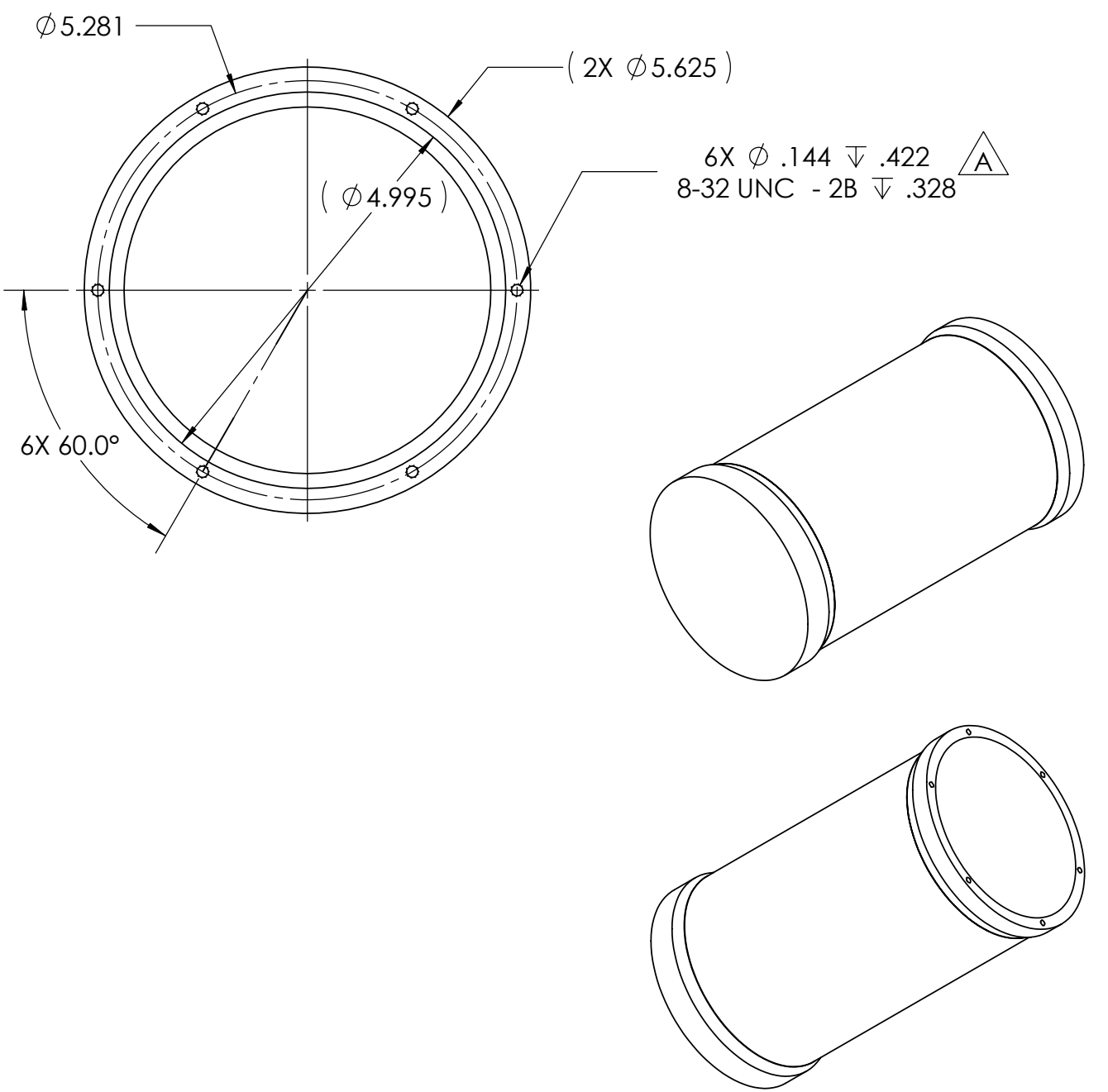
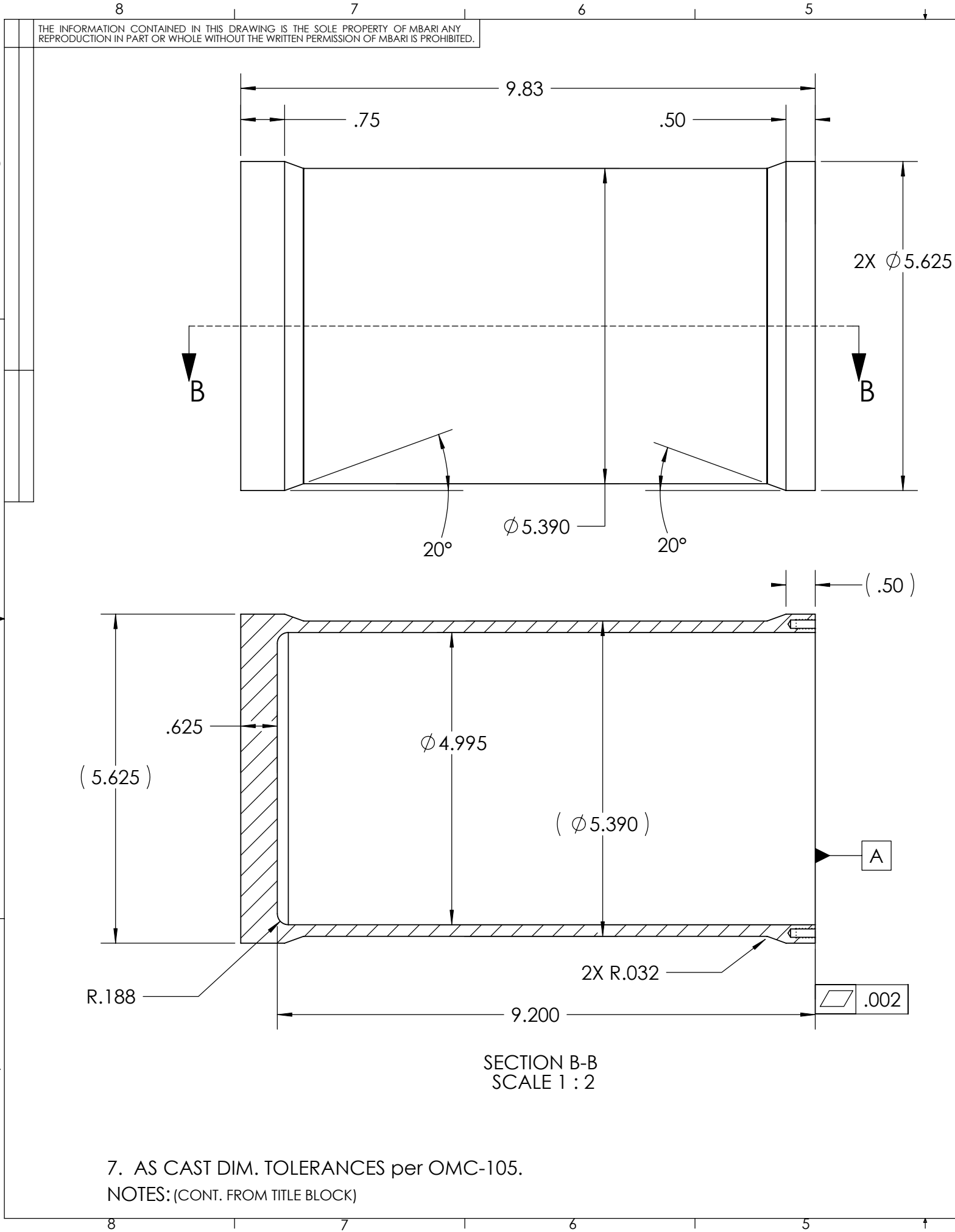
NOTES: (CONT. FROM TITLE BLOCK)

1	1	P-200268-07-01	Tube Pattern		6AL-4V Titanium
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 7/11/07	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 7/11/07	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED F.S. 10/15/07	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900733	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT MARS EXTENSION CABLE	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		WEIGHT 1.21lb.	
Application		DO NOT SCALE DRAWING		SIZE B DWG. NO. P-200268-07-01.DWG	
				SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 1 OF 7	

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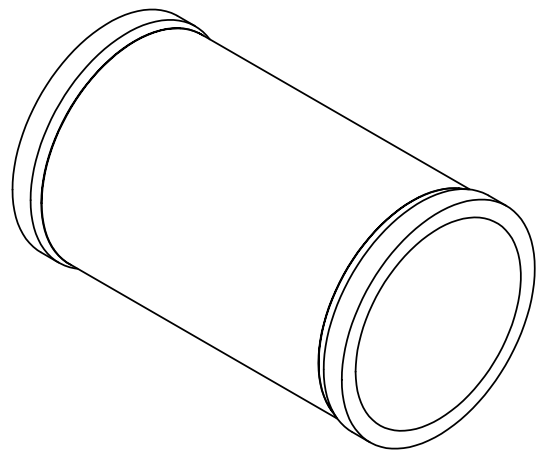
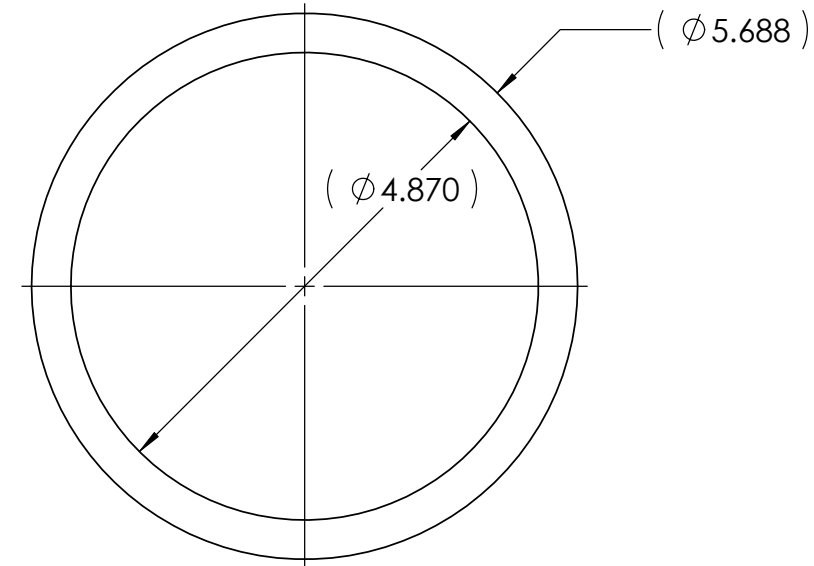
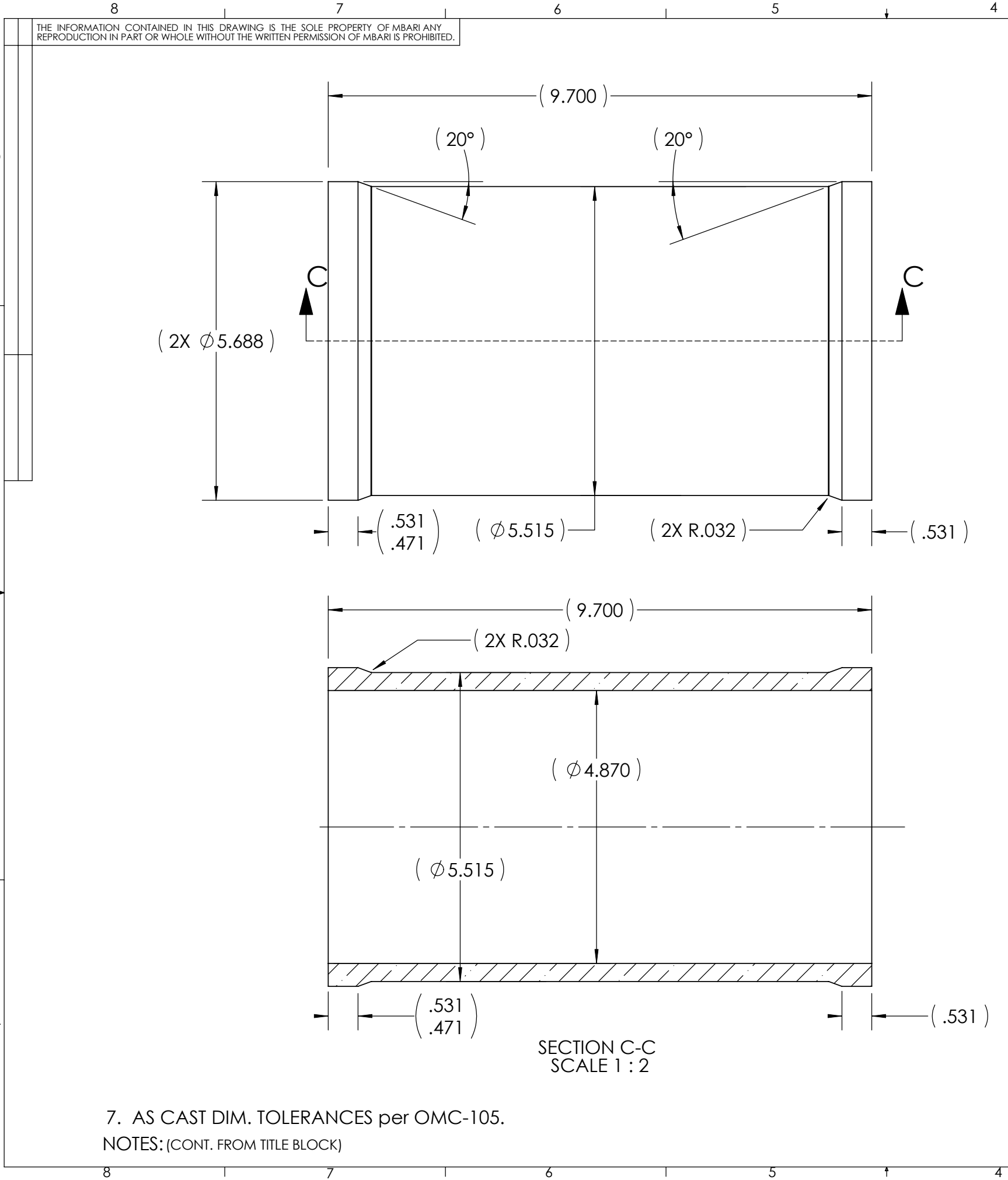
SIIM PRESSURE CASE
Tube Pattern_Tube Pattern

REV. A



PATTERN - NOT FOR MACHINING.

1	1	P-200268-07-02	Blank Tube Pattern		6AL-4V Titanium
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM $\pm 1/16$	2 PLACE DIM $\pm .02$	3 PLACE DIM $\pm .005$	ANGLES $\pm 1^\circ$
Shop Foreman		1. DIMENSIONS ARE IN INCHES		DRAWN J. ERICKSON 7/11/07	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.		ENGINEER J. ERICKSON 7/11/07	
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		CHECKED F.S. 10/15/07	
		4. MACHINED FILLET RADII .0150-.030.		PROJECT NO. 900733	
NEXT ASSY Description	NEXT ASSY Number	5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		PROJECT MARS EXTENSION CABLE	
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.			
Application		DO NOT SCALE DRAWING		WEIGHT 1.70 lb.	
			Monterey Bay Aquarium Research Institute		
			MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700		
			SIIM PRESSURE CASE BLANK TUBE PATTERN		
			SIZE B	DWG. NO. P-200268-07-02.DWG	REV. A
			SCALE 1:4	CAD FILE: MECH ENG ON TORNADO	SHEET 2 OF 7

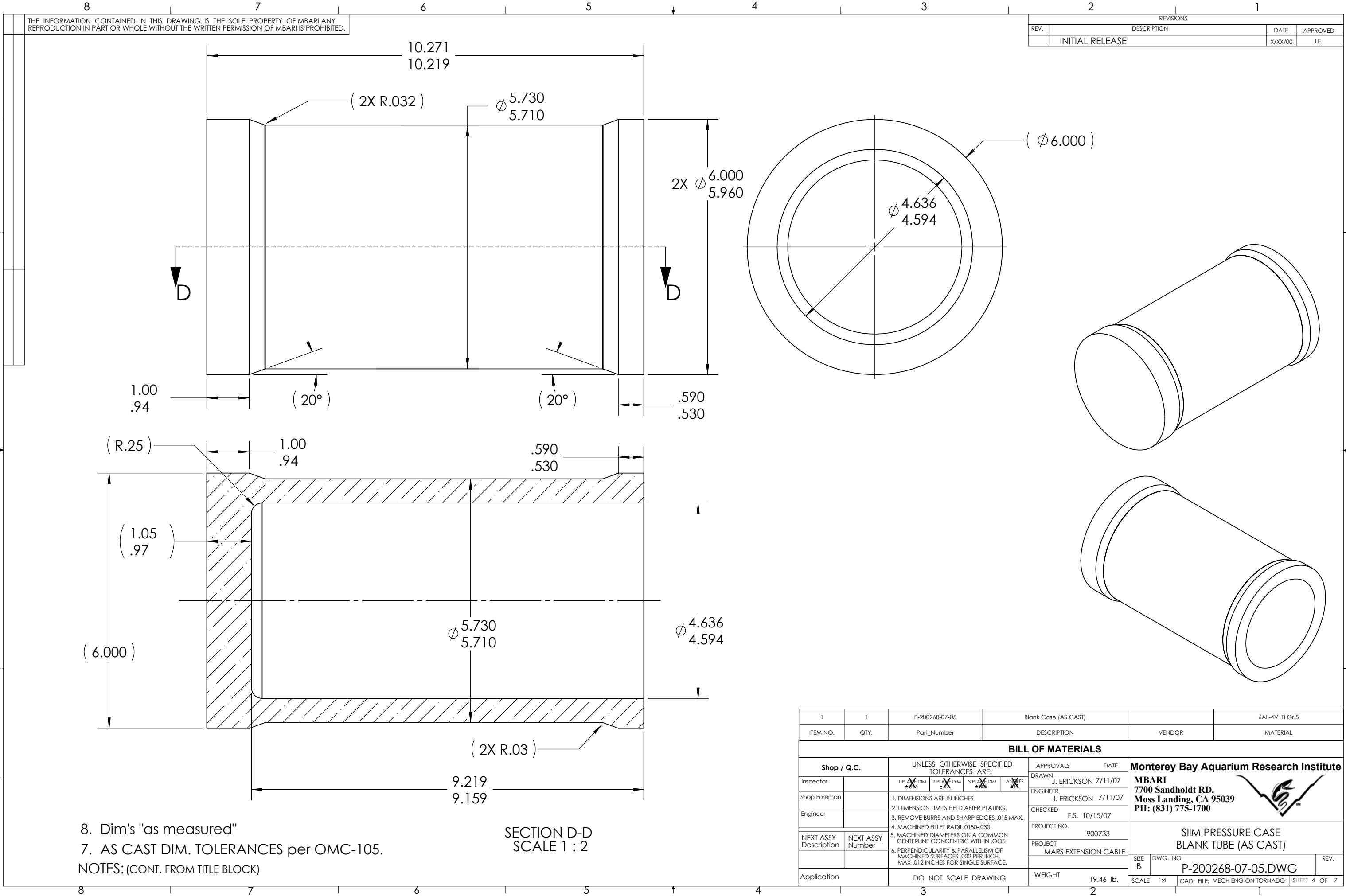


1		1		P-200268-07-04		Tube (AS CAST)				6AL-4V Ti Gr.5	
ITEM NO.		QTY.		Part_Number		DESCRIPTION		VENDOR		MATERIAL	
BILL OF MATERIALS											
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 	
Inspector		1 PLANE DIM $\pm .015$	2 PLANE DIM $\pm .015$	3 PLANE DIM $\pm .015$	4 ANGLES $\pm .015$	DRAWN	J. ERICKSON 7/11/07				
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER	J. ERICKSON 7/11/07				
Engineer						CHECKED	F.S. 10/15/07				
NEXT ASSY Description	NEXT ASSY Number					PROJECT NO.	900733				
						PROJECT	MARS EXTENSION CABLE				
Application		DO NOT SCALE DRAWING				WEIGHT	8.81 lb.	SIZE B	DWG. NO.	P-200268-07-04.DWG	REV.
		3					2	SCALE 1:4	CAD FILE: MECH ENG ON TORNADO	SHEET 3	OF 7

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SIIM PRESSURE CASE
TUBE (AS CAST)



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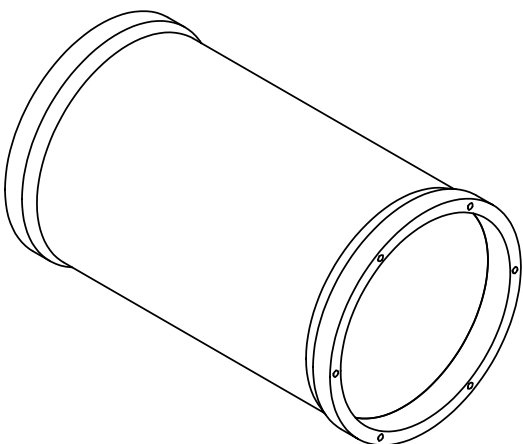
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.

1	1	P-200268-07-05	Blank Case (AS CAST)		6AL-4V Ti Gr.5
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±.X	2 PLACE DIM ±.X	DRAWN	J. ERICKSON 7/11/07
Shop Foreman		3 PLACE DIM ±.X	ANGLES	ENGINEER	J. ERICKSON 7/11/07
Engineer		1. DIMENSIONS ARE IN INCHES		CHECKED	F.S. 10/15/07
		2. DIMENSION LIMITS HELD AFTER PLATING.		PROJECT NO.	900733
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.		PROJECT	MARS EXTENSION CABLE
NEXT ASSY Description	NEXT ASSY Number	4. MACHINED FILLET RADII .0150-.030.		WEIGHT	19.46 lb.
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005		SCALE	1:4
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.		CAD FILE:	MECH ENG ON TORNADO
Application		DO NOT SCALE DRAWING		SHEET	4 OF 7

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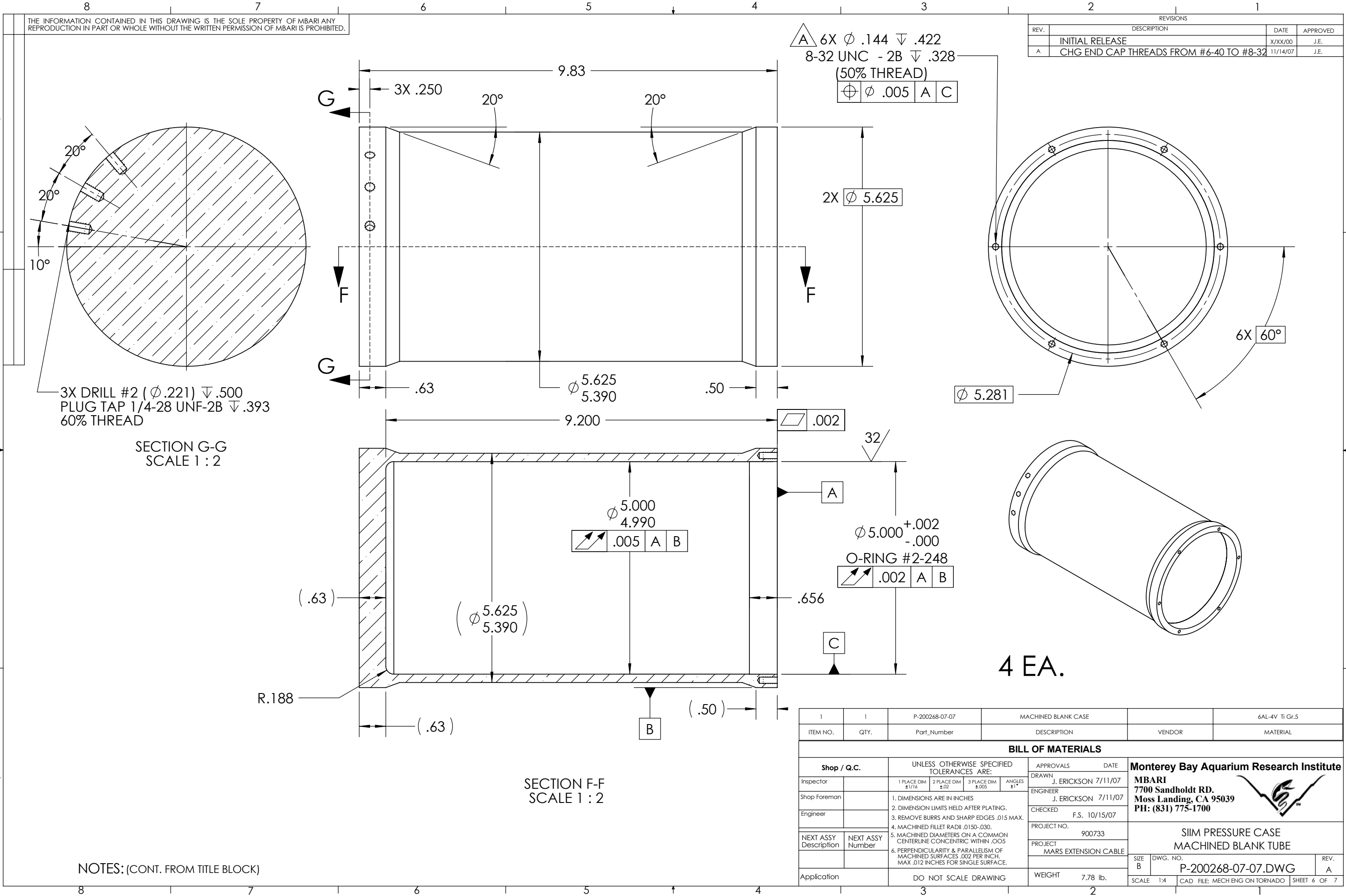
SIIM PRESSURE CASE
BLANK TUBE (AS CAST)
SIZE B DWG. NO. P-200268-07-05.DWG
REV.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG END CAP THREAD FRM #6-40 TO #8-32	11/14/07	J.E.



NOTES: (CONT. FROM TITLE BLOCK)

	1	P-200268-07-06	Machined Tube		6AL-4V Ti Gr.5	
ITEM NO.	QTY.	Part Number	DESCRIPTION		VENDOR	MATERIAL
BILL OF MATERIALS						
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:			APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 
Shop Foreman		1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				
Engineer						
NEXT ASSY Description	NEXT ASSY Number	PROJECT NO. 900733				
		PROJECT MARS EXTENSION CABLE				
Application		DO NOT SCALE DRAWING		WEIGHT 5.55 lb.	SIZE B DWG. NO. P-200268-07-06.DWG	REV. A
					SCALE 1:4 CAD FILE: MECH ENG ON TORNADO	SHEET 5 OF 7



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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG END CAP THREADS FROM #6-40 TO #8-32	11/14/07	J.E.

A 6X Ø .144 ▾ .422
8-32 UNC - 2B ▾ .328
(50% THREAD)
⊕ Ø .005 A C

3X DRILL #2 (Ø.221) ▾ .500
PLUG TAP 1/4-28 UNF-2B ▾ .393
60% THREAD

SECTION G-G
SCALE 1 : 2

⊕ 5.000
4.990
⊕ .005 A B

⊕ 5.000^{+.002}_{-.000}
O-RING #2-248
⊕ .002 A B

SECTION F-F
SCALE 1 : 2

NOTES: (CONT. FROM TITLE BLOCK)

4 EA.

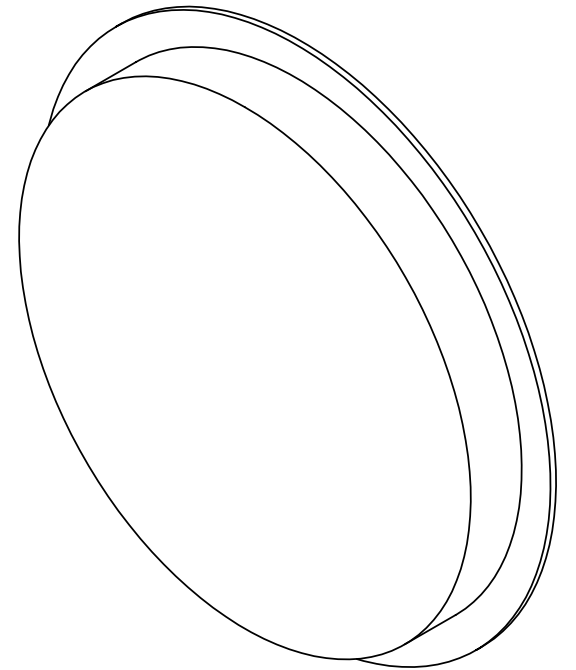
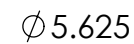
1		1	P-200268-07-07		MACHINED BLANK CASE					6AL-4V Ti Gr.5		
ITEM NO.		QTY.		Part_Number		DESCRIPTION			VENDOR		MATERIAL	
BILL OF MATERIALS												
Shop / Q.C.			UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE			
Inspector			1 PLACE DIM ±1/16		2 PLACE DIM ±.02		3 PLACE DIM ±.005		ANGLES ±1°		DRAWN J. ERICKSON 7/11/07	
Shop Foreman			1. DIMENSIONS ARE IN INCHES 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADII .0150-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER J. ERICKSON 7/11/07		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 			
Engineer							CHECKED F.S. 10/15/07					
NEXT ASSY Description			NEXT ASSY Number				PROJECT NO. 900733		SIM PRESSURE CASE MACHINED BLANK TUBE			
							PROJECT MARS EXTENSION CABLE					
Application			DO NOT SCALE DRAWING				WEIGHT		7.78 lb.		SIZE B	
									DWG. NO. P-200268-07-07.DWG		REV. A	
									SCALE 1:4		CAD FILE: MECH ENG ON TORNADO	
											SHEET 6 OF 7	

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SIIM PRESSURE CASE
MACHINED BLANK TUBE

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NOTES: (CONT. FROM TITLE BLOCK)