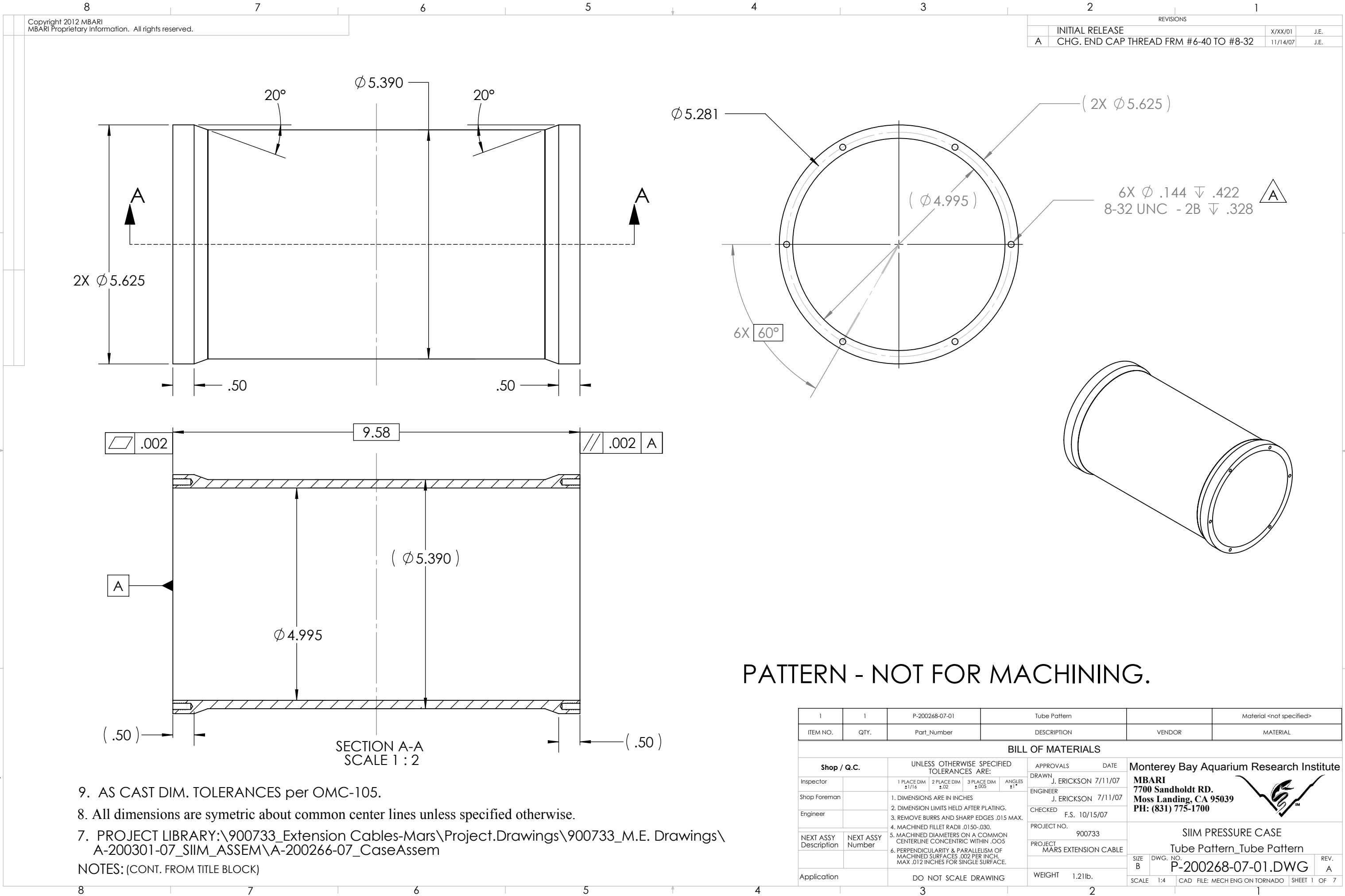
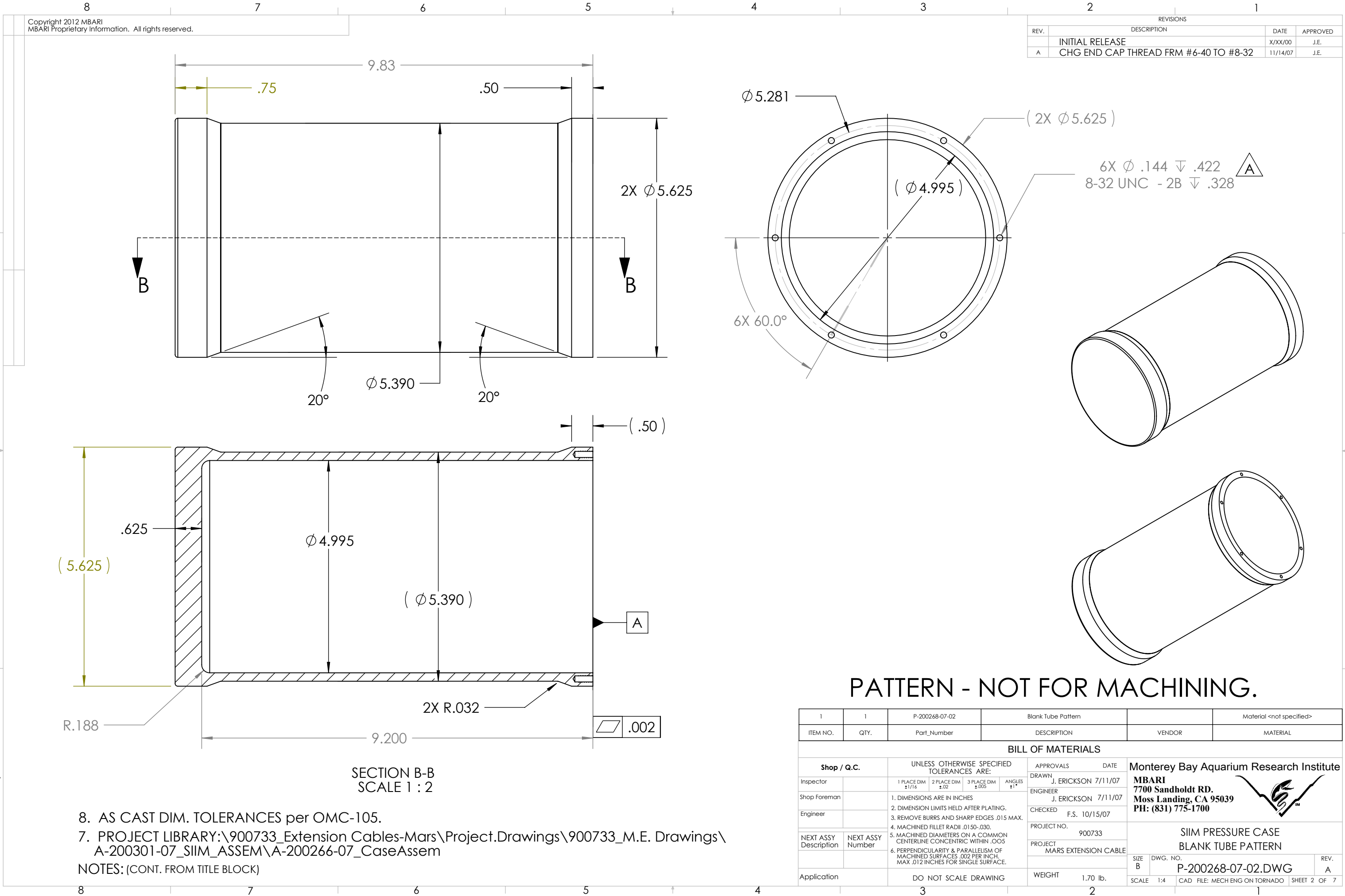
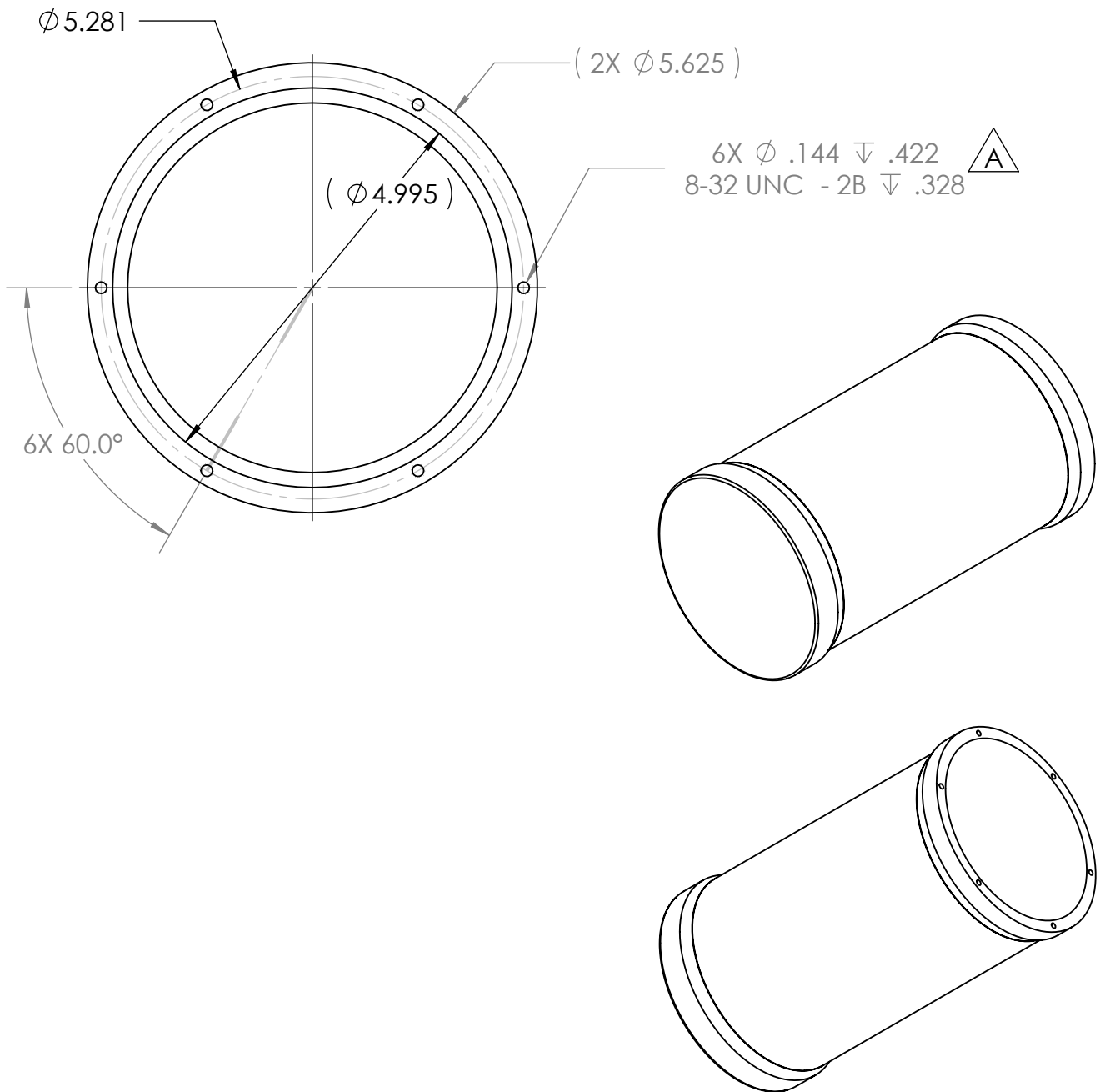






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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG END CAP THREAD FRM #6-40 TO #8-32	11/14/07	J.E.



PATTERN - NOT FOR MACHINING.

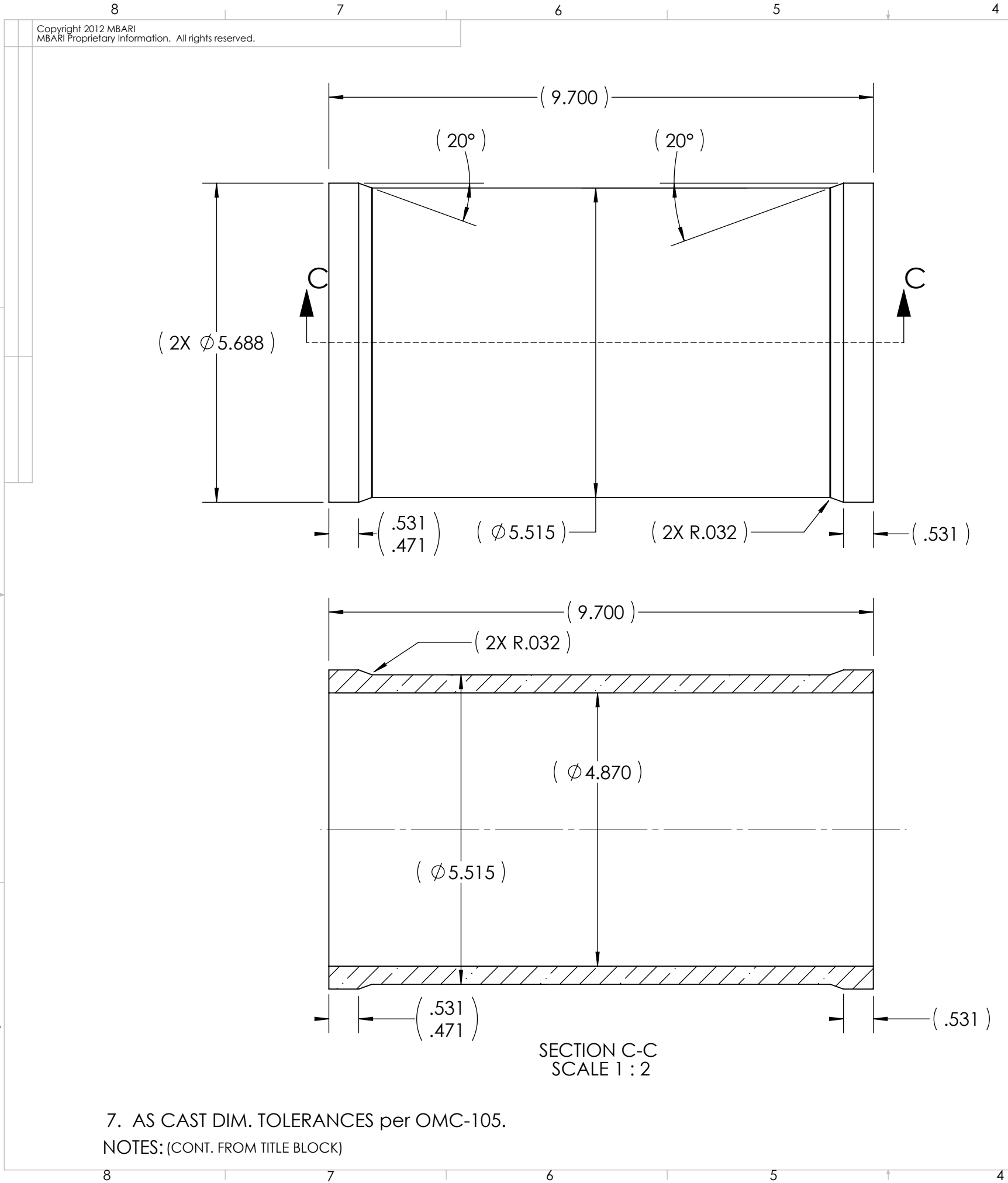
1	1	P-200268-07-02	Blank Tube Pattern		Material <not specified>
ITEM NO.	QTY.	Part Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°
Shop Foreman		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 1.70 lb.	
Application		DO NOT SCALE DRAWING		SIZE B DWG. NO. P-200268-07-02.DWG REV. A	
				SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 2 OF 7	

8. AS CAST DIM. TOLERANCES per OMC-105.
7. PROJECT LIBRARY:\900733_Extension Cables-Mars\Project.Drawings\900733_M.E. Drawings\A-200301-07_SIIM_ASSEM\A-200266-07_CaseAssem
- NOTES: (CONT. FROM TITLE BLOCK)

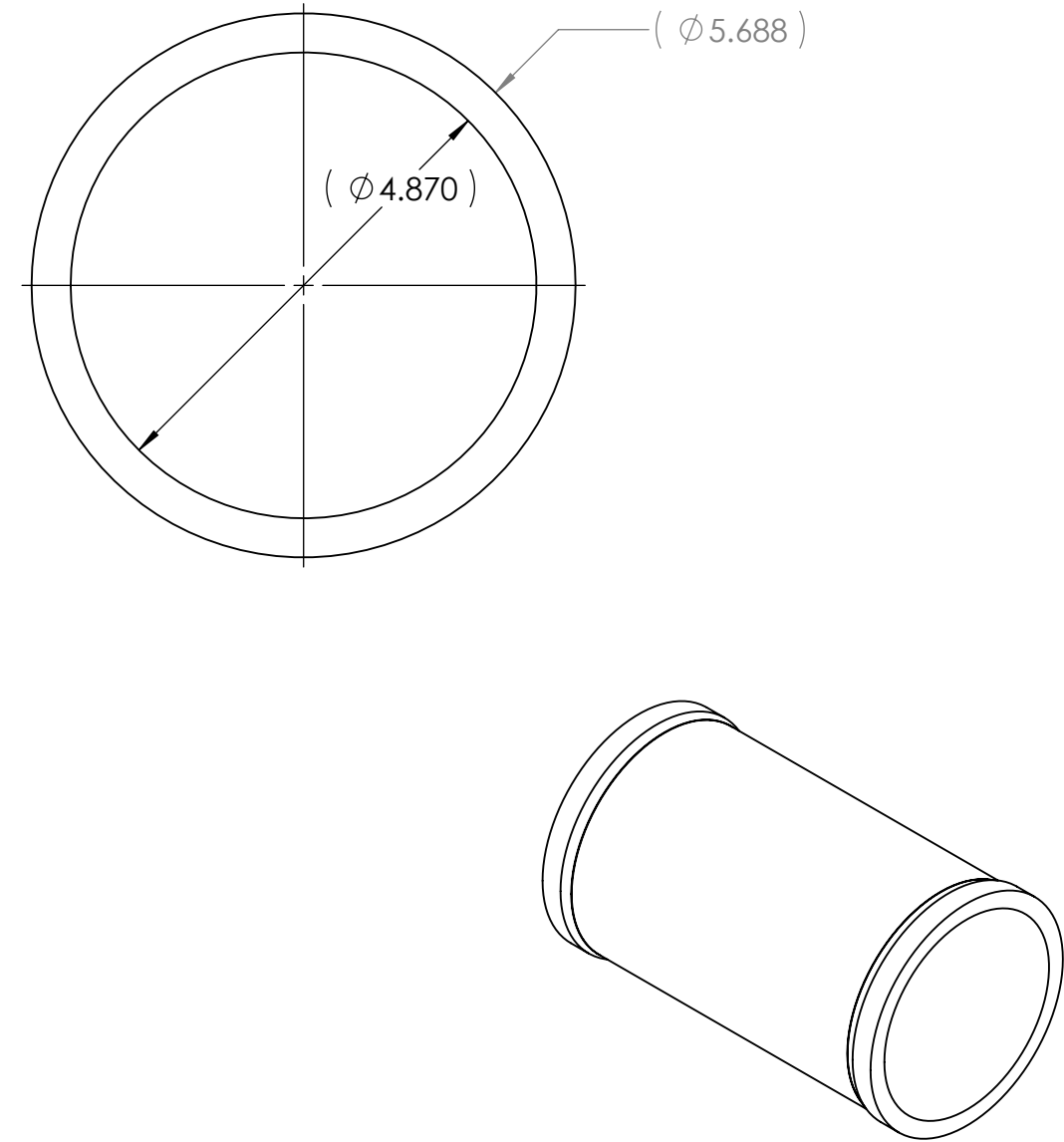
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MBARI
7700 Sandholdt RD.
Moss Landing, CA 95039
PH: (831) 775-1700



SIIM PRESSURE CASE
BLANK TUBE PATTERN



7. AS CAST DIM. TOLERANCES per OMC-105.
NOTES: (CONT. FROM TITLE BLOCK)

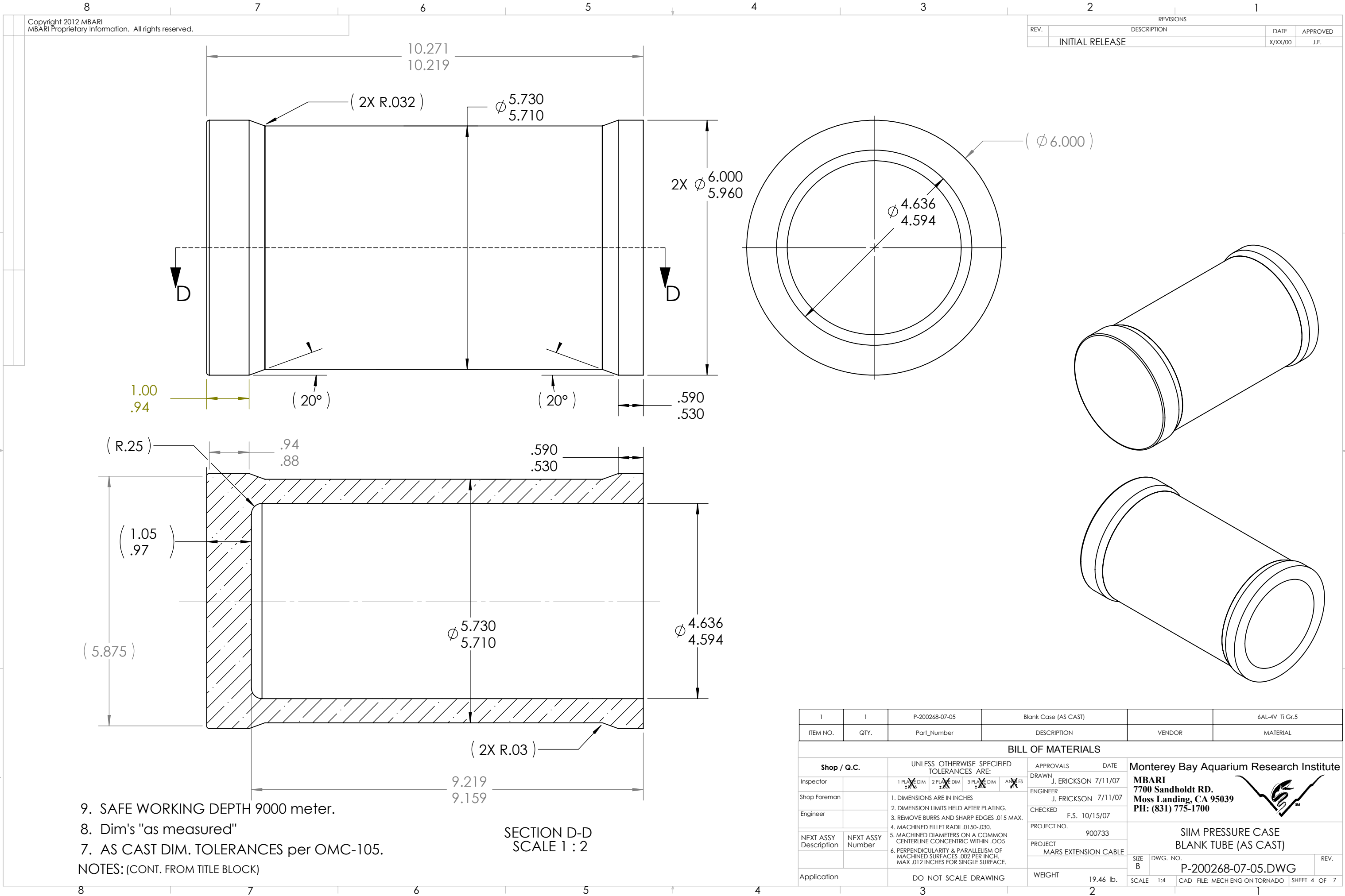


1	1	P-200268-07-04	Tube (AS CAST)		6AL-4V Ti Gr.5
ITEM NO.	QTY.	Part_Number	DESCRIPTION	VENDOR	MATERIAL
BILL OF MATERIALS					
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLANE DIM X	2 PLANE DIM X	3 PLANE DIM X	ANGLES X
Shop Foreman		1. DIMENSIONS ARE IN INCHES		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	8.81 lb.
Application		DO NOT SCALE DRAWING		SIZE B	DWG. NO. P-200268-07-04.DWG
				SCALE 1:4	CAD FILE: MECH ENG ON TORNADO
					SHEET 3 OF 7

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SIIM PRESSURE CASE
TUBE (AS CAST)



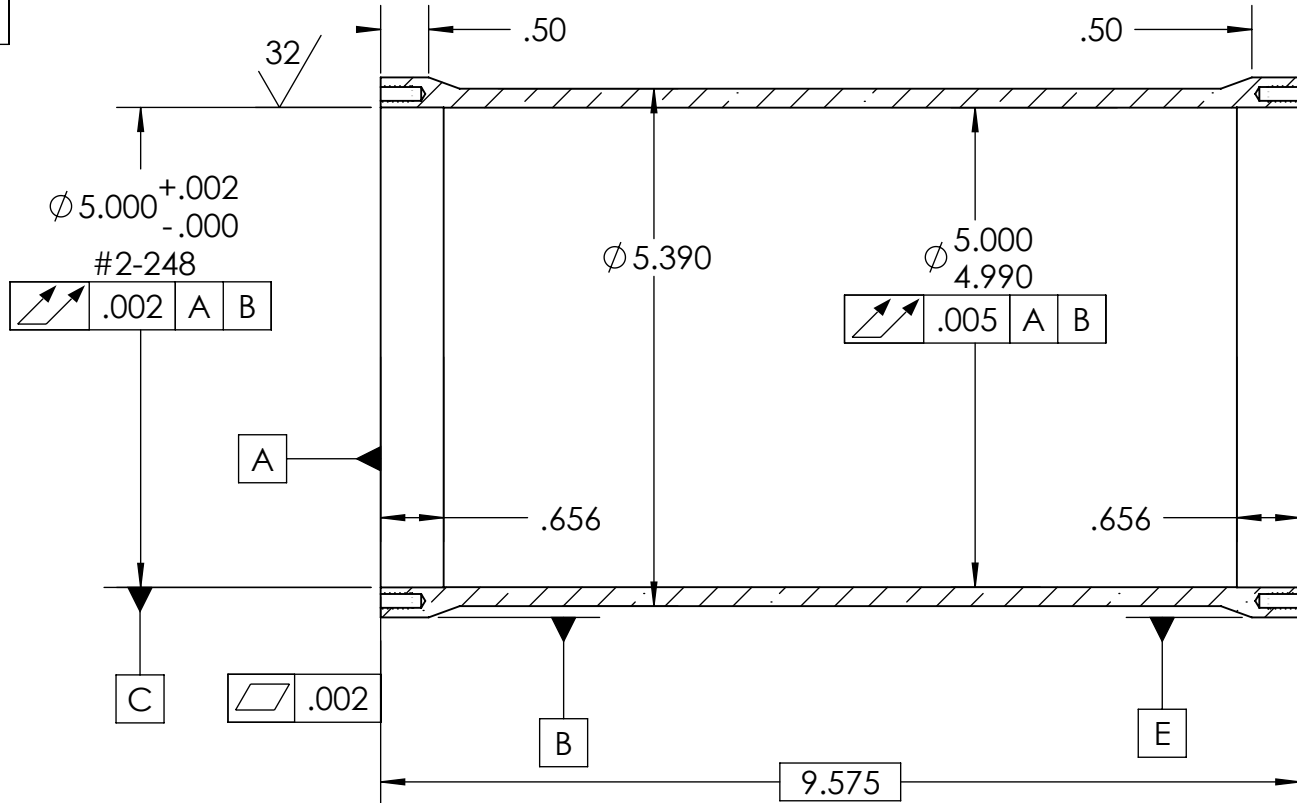
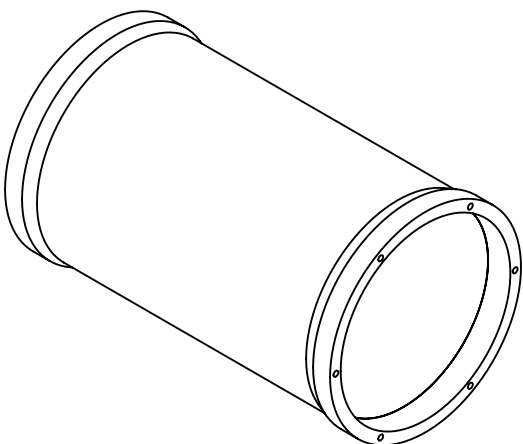
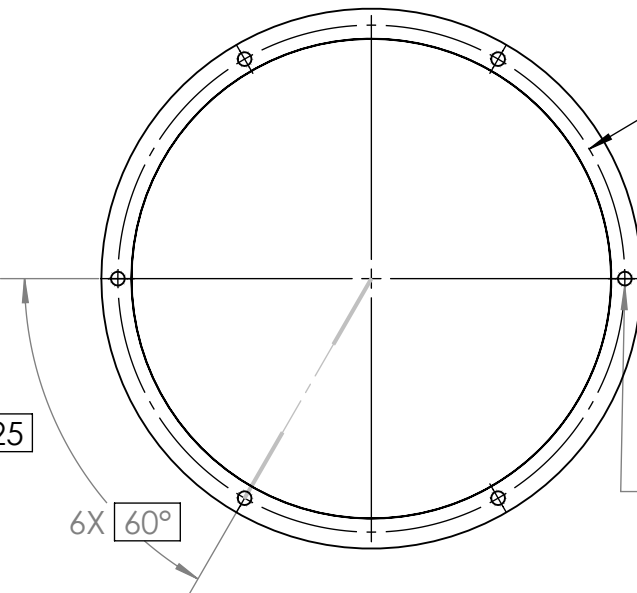
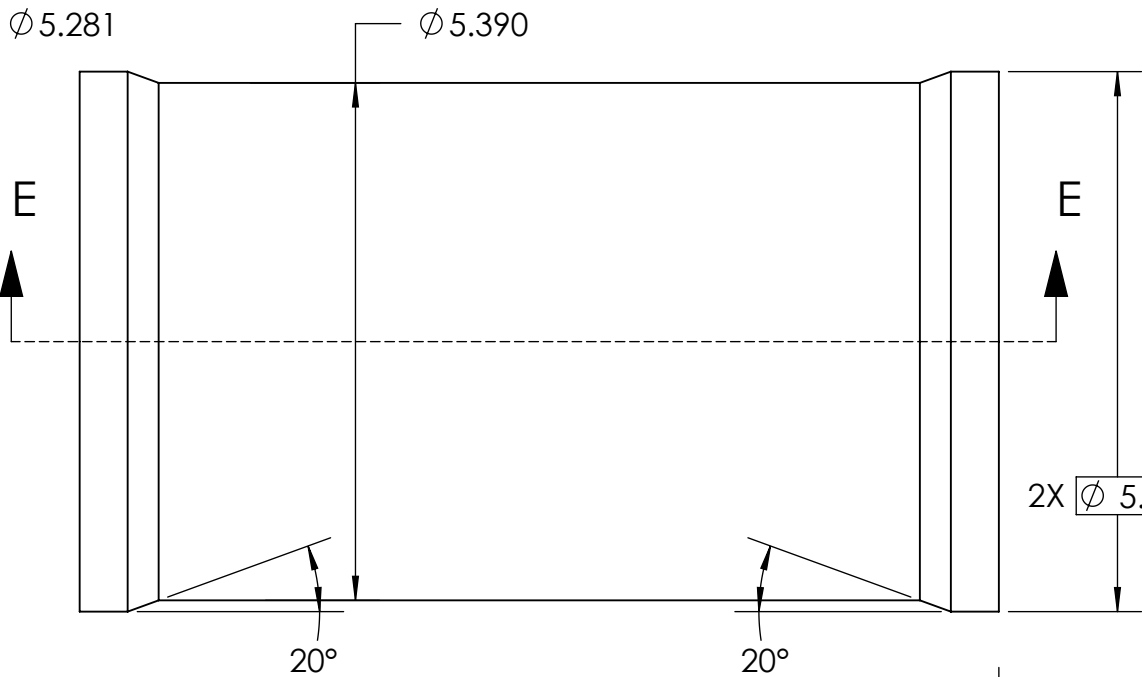
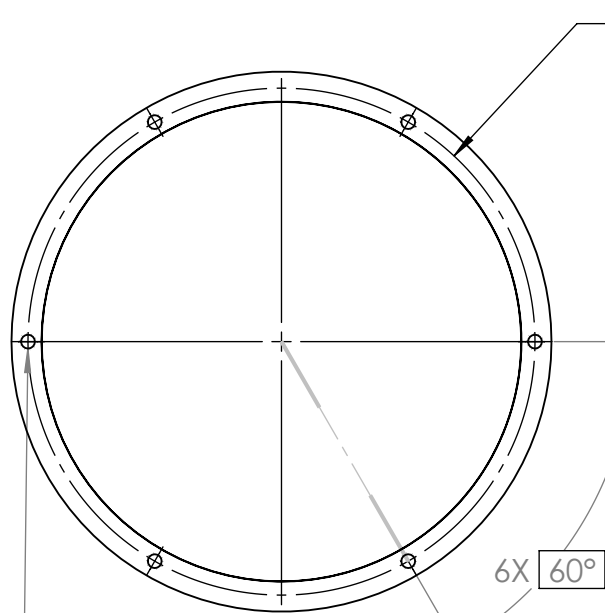
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG END CAP THREAD FRM #6-40 TO #8-32	11/14/07	J.E.

D

C

B

A



SECTION E-E
SCALE 1 : 2

8. SAFE WORKING DEPTH 1800 meter.

7. PROJECT LIBRARY:\900733_Extension Cables-Mars\Project.Drawings\900733_M.E. Drawings\
A-200301-07_SIIM_ASSEM\A-200266-07_CaseAssem1800 meter.

NOTES: (CONT. FROM TITLE BLOCK)

1	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°
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 5.55 lb.	
Application		DO NOT SCALE DRAWING		SIZE B DWG. NO. P-200268-07-06.DWG	
				SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 5 OF 7	

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SIIM PRESSURE CASE
MACHINED TUBE
P-200268-07-06.DWG
A

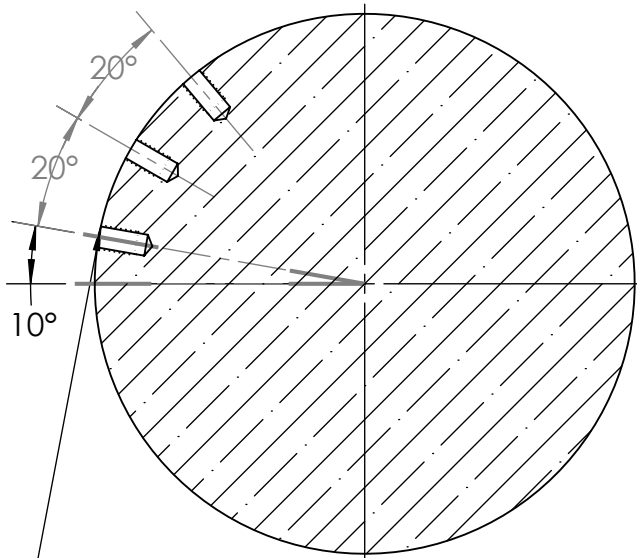
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	INITIAL RELEASE	X/XX/00	J.E.
A	CHG END CAP THREADS FROM #6-40 TO #8-32	11/14/07	J.E.
B	ADD O-RING LEAD-IN BEVEL (DETAIL)	03/27/08	J.E.

D

C

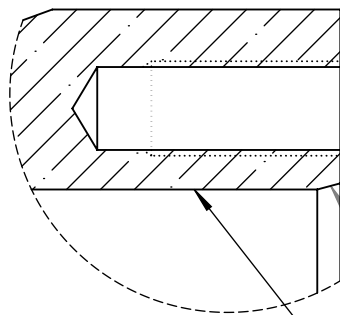
B

A

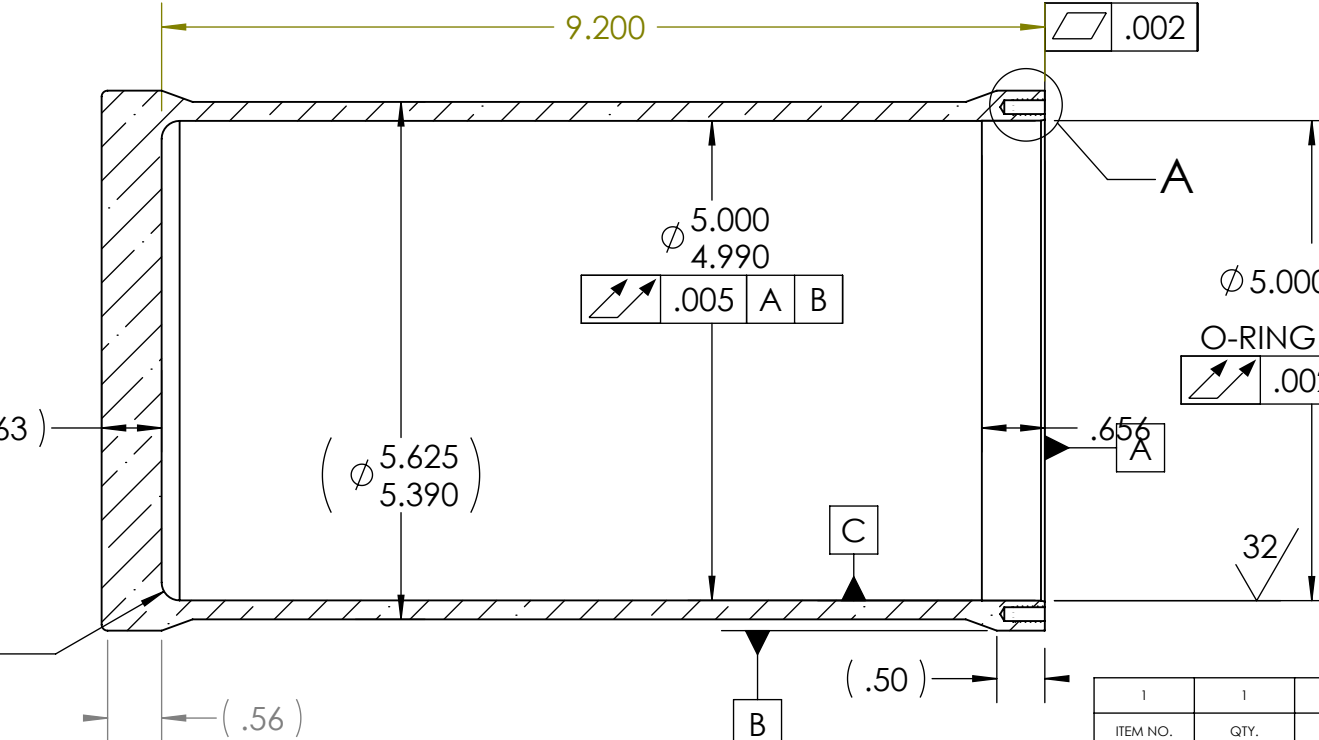
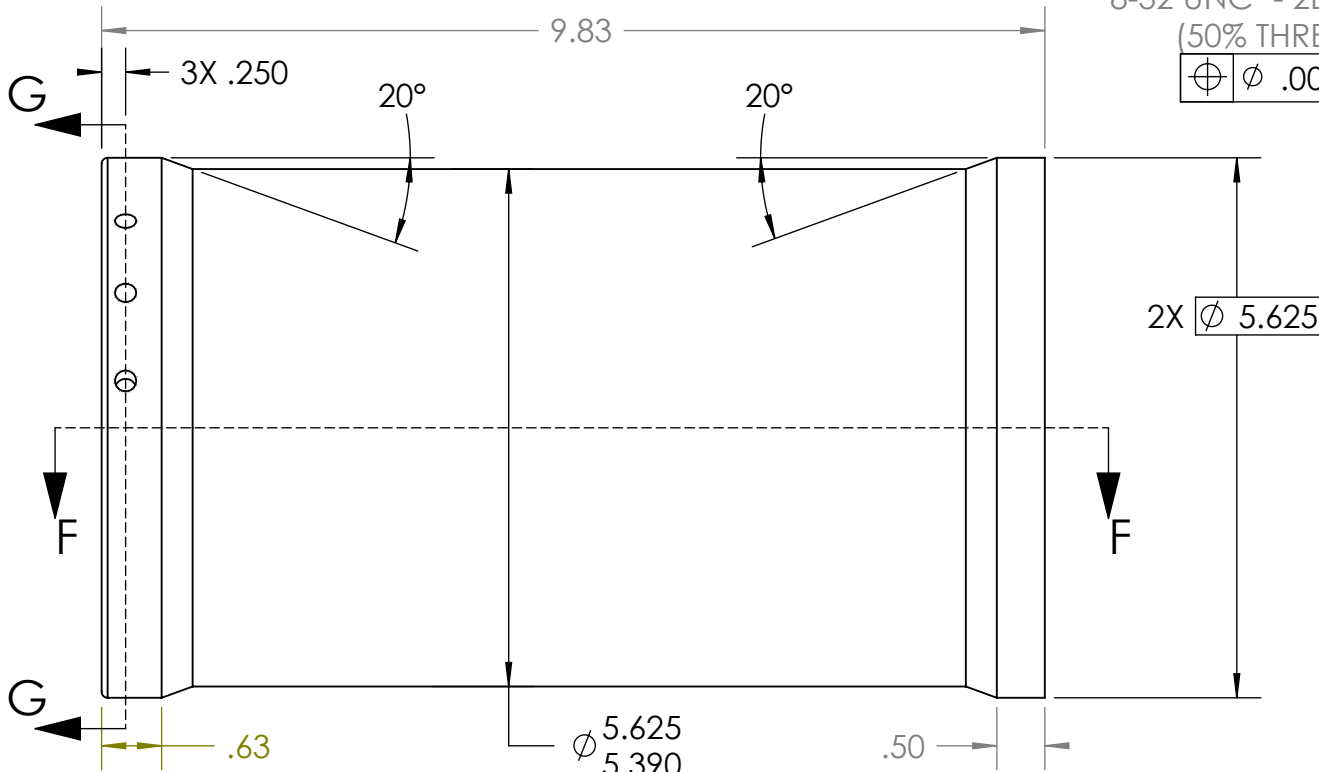


3X DRILL #2 (Ø.221) .500
PLUG TAP 1/4-28 UNF-2B .393
60% THREAD

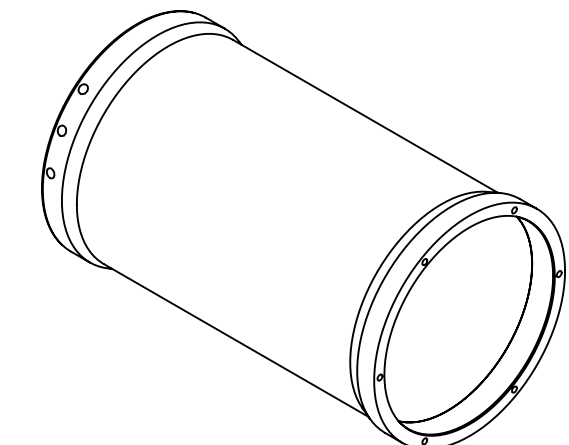
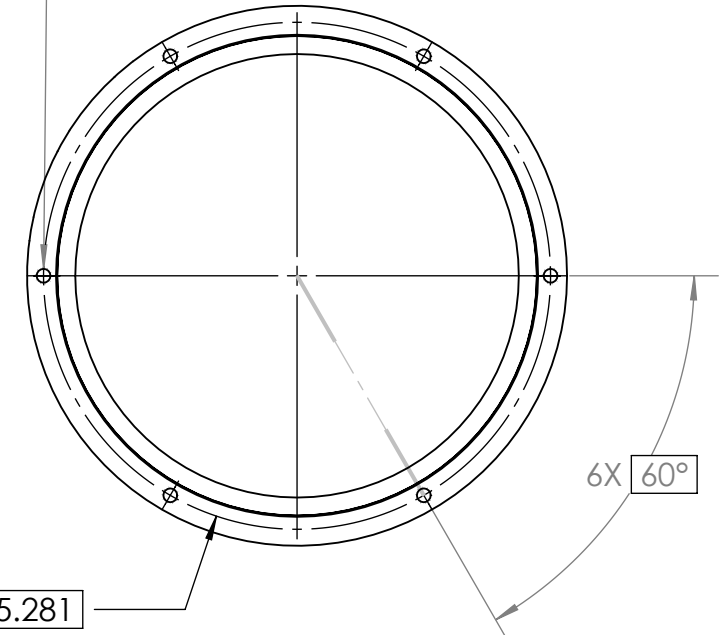
SECTION G-G
SCALE 1 : 2



DETAIL A
SCALE 3 : 1



SECTION F-F
SCALE 1 : 2



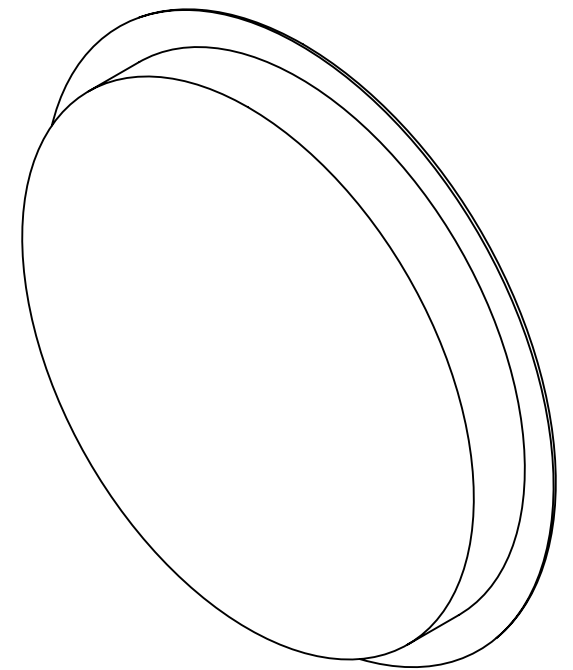
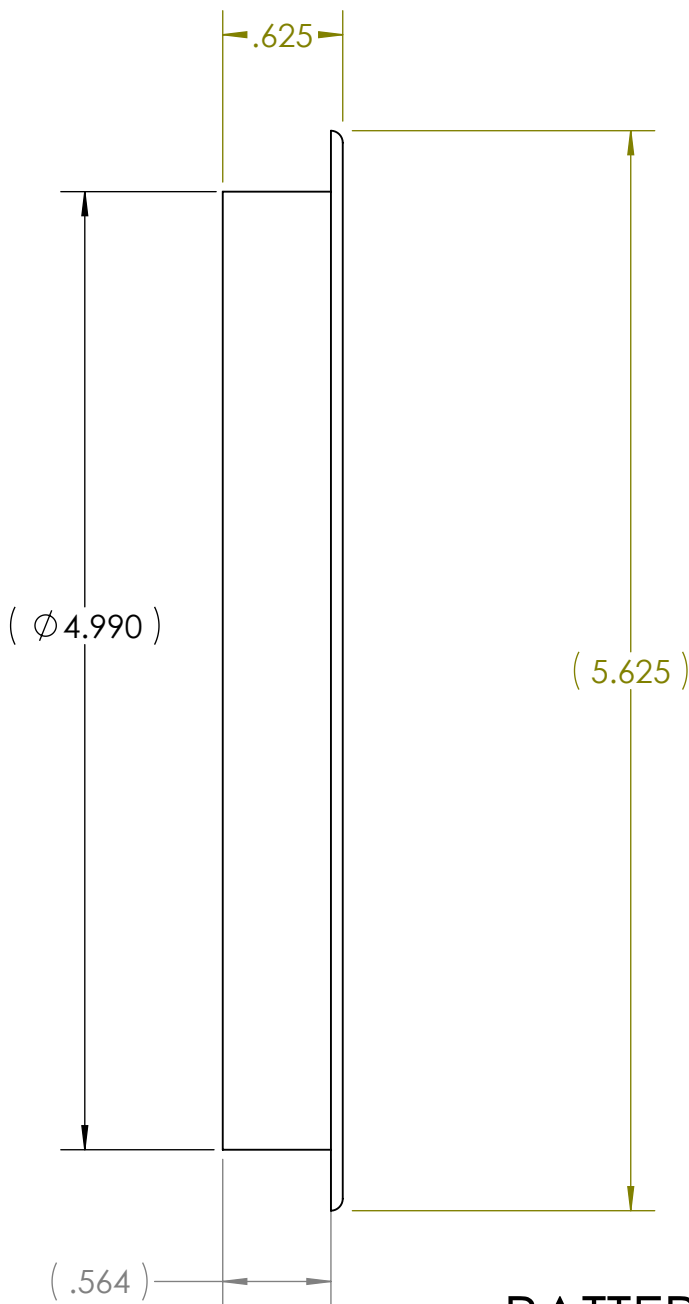
4 EA.

8. SAFE WORKING DEPTH 1800 meter.

7. PROJECT LIBRARY:\900733_Extension Cables-Mars\Project.Drawings\900733_M.E. Drawings\
A-200301-07_SIIM_ASSEM\A-200266-07_CaseAssem1800 meter.

NOTES: (CONT. FROM TITLE BLOCK)

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		Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700  SIIM PRESSURE CASE MACHINED BLANK TUBE
Inspector				DATE		
Shop Foreman		1 PLACE DIM ±1/16		DRAWN J. ERICKSON 7/11/07		
Engineer		2 PLACE DIM ±.02		ENGINEER J. ERICKSON 7/11/07		
		3 PLACE DIM ±.005		CHECKED F.S. 10/15/07		
		ANGLES ±1°		PROJECT NO. 900733		
NEXT ASSY Description	NEXT ASSY Number	1. DIMENSIONS ARE IN INCHES		PROJECT MARS EXTENSION CABLE		
		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.				
Application		DO NOT SCALE DRAWING		WEIGHT 7.78 lb.		
				SIZE B DWG. NO. P-200268-07-07.DWG REV. B		
				SCALE 1:4 CAD FILE: MECH ENG ON TORNADO SHEET 6 OF 7		



PATTERN - NOT FOR MACHINING.

1	1	P-200268-07-03	Blank End 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				
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				
		4. MACHINED FILLET RADII .0150-.030.				
NEXT ASSY Description	NEXT ASSY Number	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.				
Application		DO NOT SCALE DRAWING		WEIGHT	2.08 lb.	
				Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700 		
				SIIM PRESSURE CASE BLANK END PATTERN		
		SIZE B		DWG. NO. P-200268-07-03.DWG		REV.
		SCALE 1:4		CAD FILE: MECH ENG ON TORNADO SHEET 7 OF 7		

NOTES: (CONT. FROM TITLE BLOCK)