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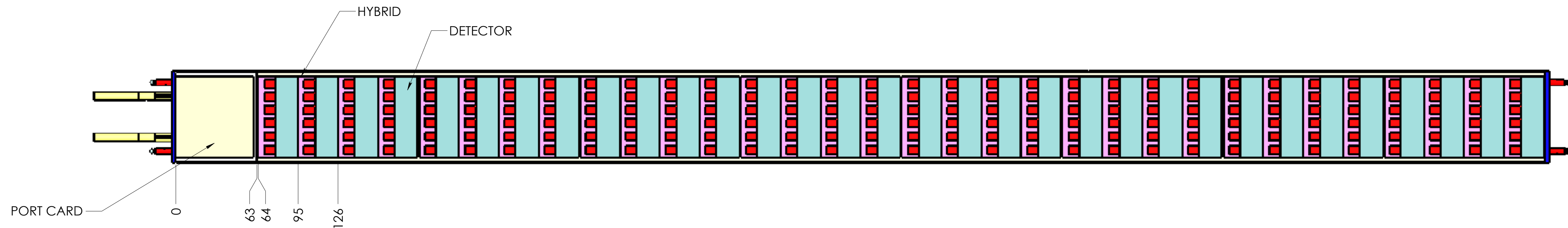
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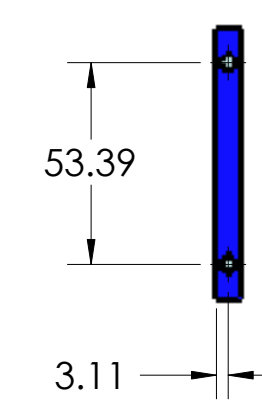
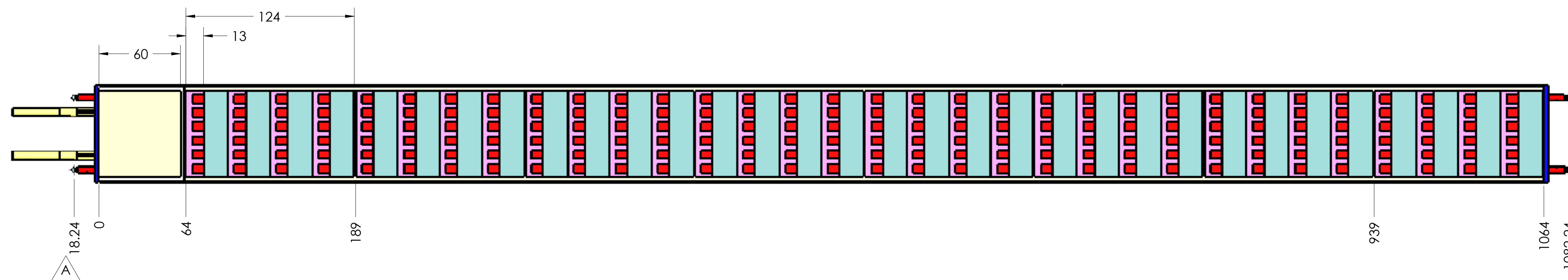
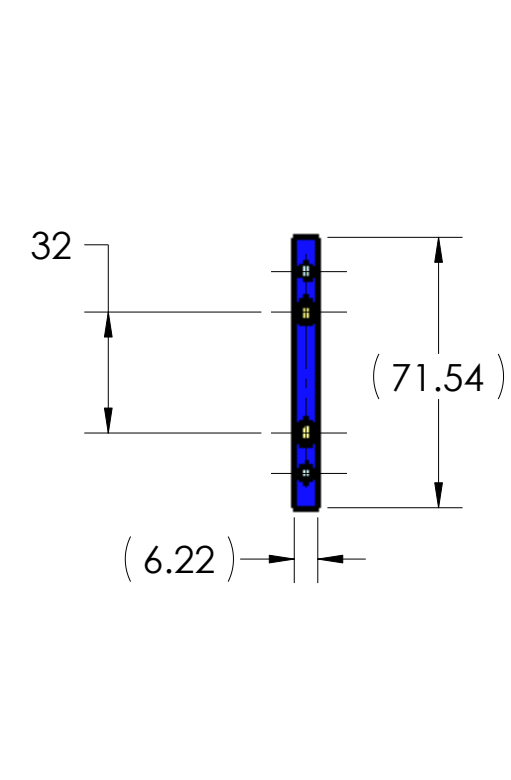
DWG. NO. nnXnnn4	SIZE A	REV. 1	SH. 1
DESCRIPTION		MATERIAL	MAT. LOCATION



BACK SIDE



FRONT SIDE



NOTES:
1. UNITS ARE IN METRIC.

UNLESS OTHERWISE SPECIFIED				SHOP ORDERS		SER. NO. DATE ISSD		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY	
TOLERANCES		X.X ± 2.5		FRAC. ± 1/64		ACCT. NO. NO. REQD.		4.72mm FLAT TUBE STAVE ASSEMBLY	
		X.XX ± .25		ANGLES ± 30°		DEL. TO DATE REQD.		MICROFILMED: DWG. TYPE PART	
		X.XXX ± 0.13		FINISH -		SURFACE TREATMENT		SHOWN ON nnXnnn	
		DO NOT SCALE PRINT		PROJECT NAME		PROJECT NUMBER		SCALE: 1:2	
		THREADS ARE CLASS 2		PROJECT NAME		PROJECT NUMBER		SHEET 1 OF 1	
		CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME		PROJECT NUMBER		DWG. NO. nnXnnn4	
		CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		PROJECT NAME		PROJECT NUMBER		SIZE A	
		BREAK EDGES .016 MAX. ON MACHINED WORK		PROJECT NAME		PROJECT NUMBER		REV. A	
		REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		PROJECT NAME		PROJECT NUMBER			
		IN ACCORDANCE WITH ASME Y14.5m & B46.1		PROJECT NAME		PROJECT NUMBER			
REV. DWG. CHK. ZONE. DATE				CHANGES		DATE		P1AP-11 AP6250	
A				1-8-06		12/17/06		P1AP-11 AP6250	
				CHANGES REFLECT NEW TOOLING BALL		12/17/06			

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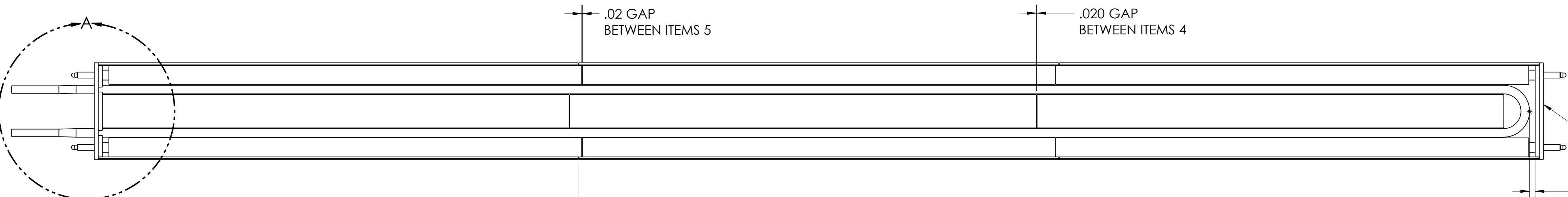
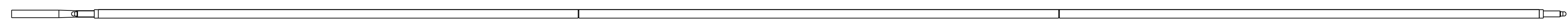
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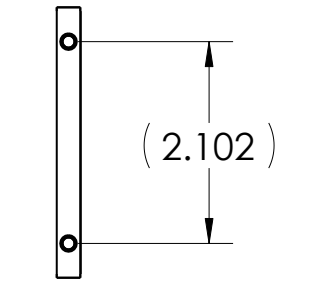
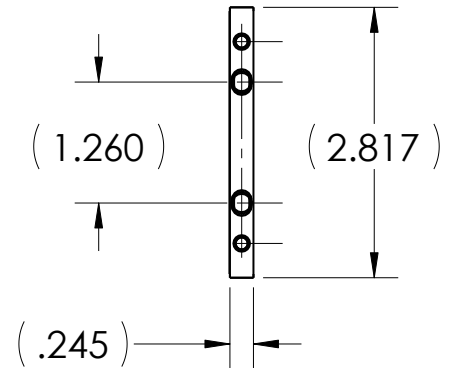
DWG. NO. nnXnnn4	SIZE A	REV. 1	SH. 1
DESCRIPTION		MATERIAL	MAT. LOCATION



BACK SIDE



FRONT SIDE (FACESHEET HIDDEN FOR CLARITY)



NOTES:
1. UNITS ARE IN INCHES.

6	1	B2	1		END CLOSEOUT SUB ASSEMBLY 2	
5	2	D4	6		COMPOSITE SIDE CLOSEOUT	
4	2	D6	3		HONEYCOMB CORE PART #1	
3	2	D6	6		HONEYCOMB CORE PART #2	
2	2	D6	1		COOLING TUBE WITH END CLOSEOUT #1	
1	1	D6	2		COMPOSITE FACESHEET	
ITEM NO	SHEET LOCATION	ZONE	QTY	PART DOCUMENT NUMBER	DESCRIPTION	REFERENCE DESIGNATION MATERIAL /NOTES

REV	DWG	CHK	ZONE	DATE	CHANGES
A				1-8-06	CHANGES REFLECT NEW TOOLING BALL

UNLESS OTHERWISE SPECIFIED

TOLERANCES: X.X ± 0.1, X.XX ± 0.01, X.XXX ± 0.005

ANGLES ± 30°

FINISH -

DO NOT SCALE PRINT

THREADS ARE CLASS 2

CHAMFER ENDS OF ALL SCREW THREADS 30°

CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS

BREAK EDGES .016 MAX. ON MACHINED WORK

REMOVE BURRS, WELD SPLATTER & LOOSE SCALE

IN ACCORDANCE WITH ASME Y14.5m & B46.1

SHOP ORDERS

ACCT NO., NO. REQ., DATE ISSD, DATE RECD.

SURFACE TREATMENT

IDENT. METHOD, TAG

PROJECT NUMBER, PROJECT NAME

DWG. W. K. MILLER, DATE 12/17/06

CHK. W. O. MILLER, DATE 12/17/06

APR -

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

4.72mm FLAT TUBE STAVE SUB ASSEMBLY

MICROFILMED: PART, SHOWN ON: nnXnnn, SCALE: 1:2, DO NOT SCALE PRINTS

PATENT CLEAR: P1AP-11, CATEGORY CODE: AP6250, DWG. NO.: nnXnnn4, SHEET 1 OF 2, REV. A

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DWG. NO. nnXnnn4
SIZE A
REV. 2
SH. 2

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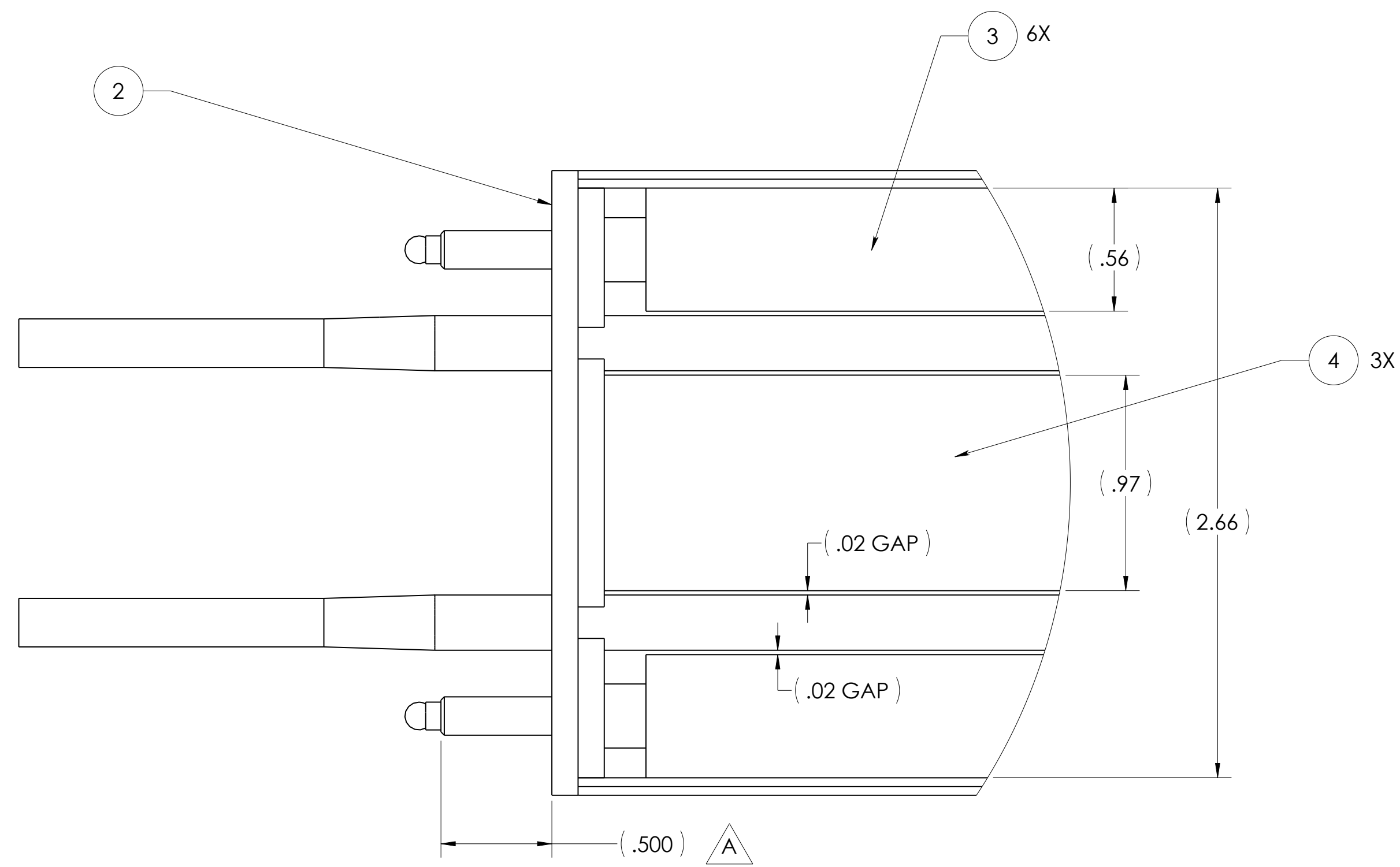
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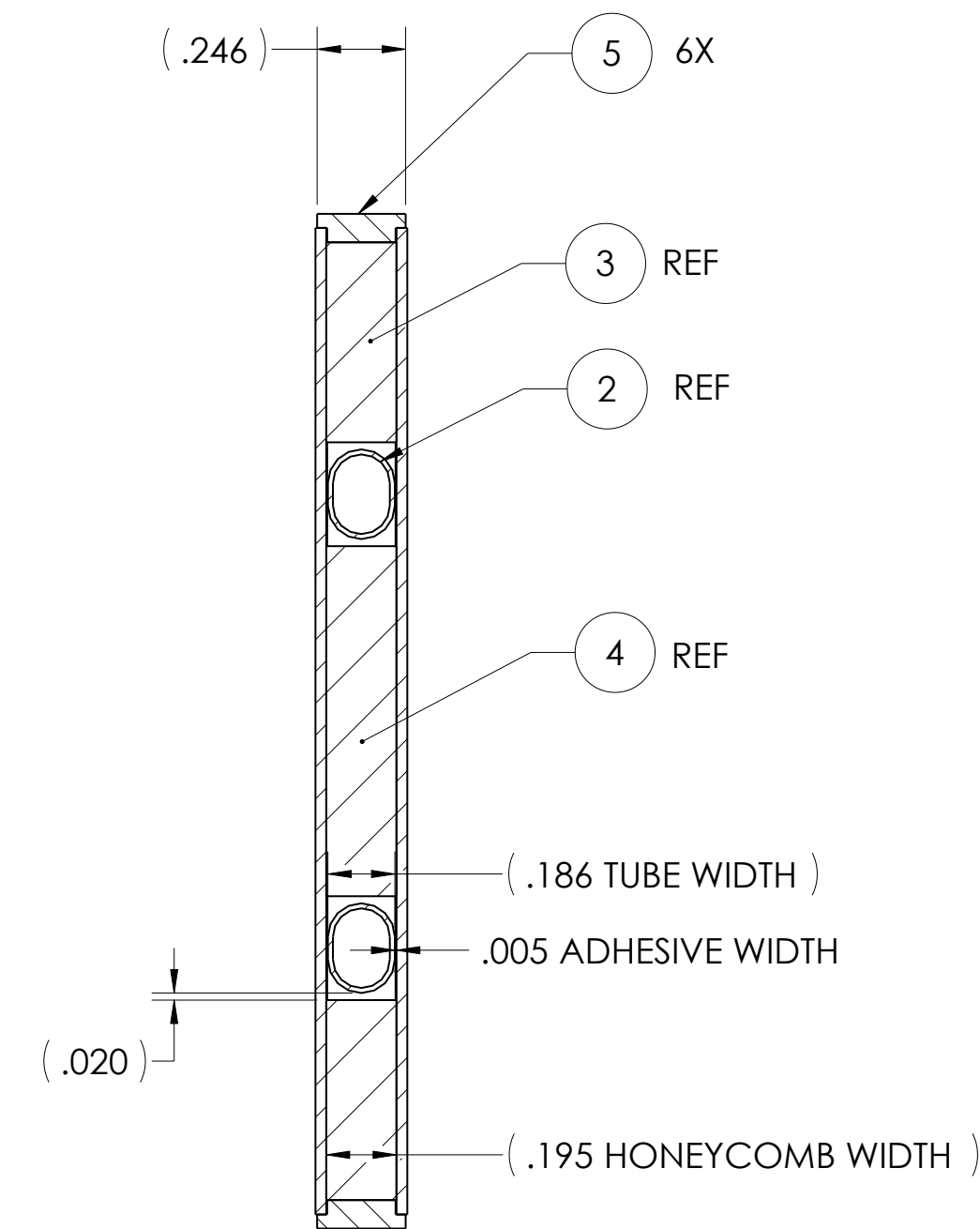
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DETAIL A
SCALE 2 : 1



SECTION B-B
SCALE 2 : 1

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.	DATE REQD.	UNIVERSITY OF CALIFORNIA - BERKELEY	
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		4.72mm FLAT TUBE STAVE SUB ASSEMBLY		
DO NOT SCALE PRINT		IDEN. METHOD	TAG			
THREADS ARE CLASS 2		PROJECT NUMBER	ATL-IP-ED-XXXX			
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME	US ATLAS SILICON SUBSYSTEM	MICROFILMED:	DWG. TYPE	SHOWN ON
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG. BY	W. K. MILLER	DATE	12/17/06	SCALE: 1:2
BREAK EDGES .016 MAX. ON MACHINED WORK		CHK. BY	W. O. MILLER	DATE	12/17/06	DO NOT SCALE PRINTS
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR. BY		PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CIDE
IN ACCORDANCE WITH ASME Y14.5m & B46.1					P1AP-11	AP6250
						SCALE: 1:2
						SHEET 2 OF 2
						DWG. NO. nnXnnn4
						SIZE A
						REV. 2

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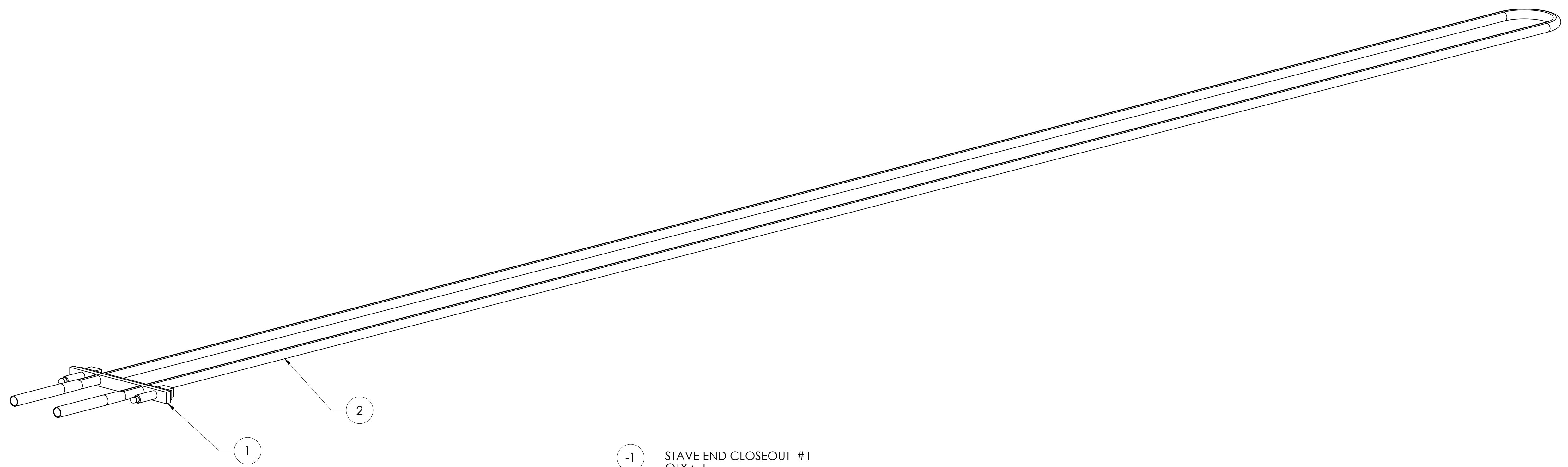
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DWG. NO.	SIZE	REV.	SH.
nnXnnn4		1	1

DESCRIPTION	MATERIAL	MAT. LOCATION
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-1 STAVE END CLOSEOUT #1
QTY : 1

- NOTES:
- ORIGINAL TUBE OUTER DIAMETER IS 7/32 in.

2	1	B7	1		COOLING TUBE
1	1	B7	1		END CLOSEOUT SUB-ASSEMBLY
ITEM NO	SHEET LOCATION	ZONE	QTY	PART DOCUMENT NUMBER	DESCRIPTION

REV	DWG	CHK	ZONE	DATE	CHANGES

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO. DATE ISSD		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA - BERKELEY	
TOLERANCES	X.X ± 0.1	FRAC.	± 1/64	ACCT NO.	NO. REQD.	DATE RECD.	
	X.XX ± 0.01	ANGLES	± 30°	DEL TO			
	X.XXX ± 0.005	FINISH	-	SURFACE TREATMENT			
DO NOT SCALE PRINT				TUBE AND END CLOSEOUT 4.72 mm FLAT TUBE STAVE ASSEMBLY			
THREADS ARE CLASS 2	PROJECT NUMBER: ATL-IP-ED-XXXX			MICROFILMED: DWG. TYPE: PART			
CHAMFER ENDS OF ALL SCREW THREADS 30°	PROJECT NAME: US ATLAS SILICON SUBSYSTEM			SHOWN ON: nnXnnn			
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	DWG. W. K. MILLER			SCALE: 1:1.25			
BREAK EDGES .016 MAX. ON MACHINED WORK	DATE 12/17/06			DO NOT SCALE PRINTS			
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE	CHK BY: W. O. MILLER			SHEET 1 OF 2			
IN ACCORDANCE WITH ASME Y14.5m & B46.1	DATE 12/17/06			DESIGN ACCT. NO. P1AP-11			
	APR -			CATEGORY CODE AP6250			
	DATE -			DWG. NO. nnXnnn4			
				SIZE 1			

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DWG. NO.	SIZE	REV.	SH.
nnXnnn4		1	2

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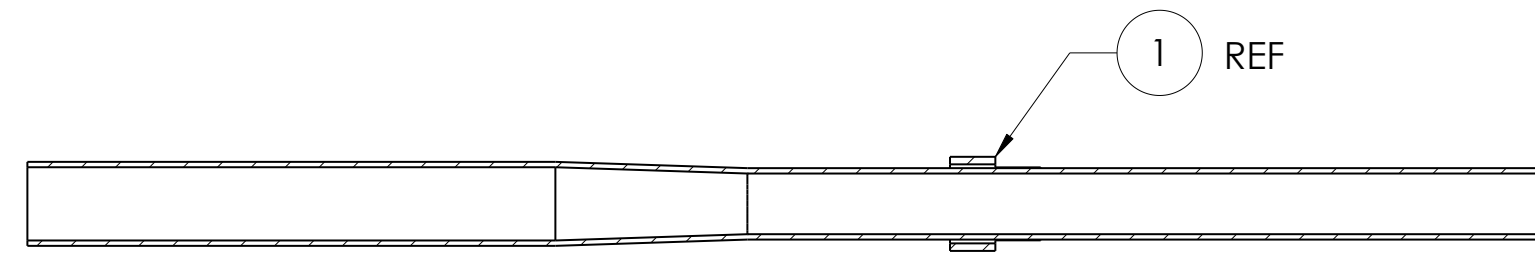
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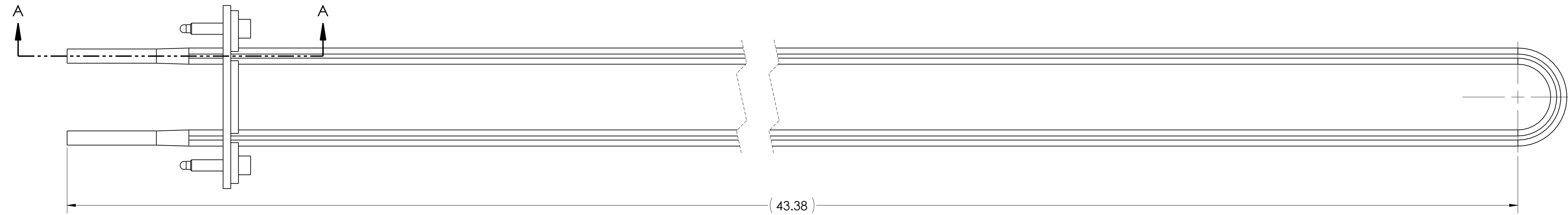
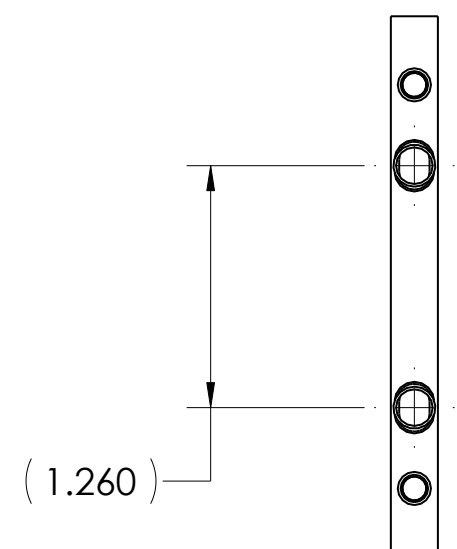
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SECTION A-A
SCALE 2:1



UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.	DATE REQD.	UNIVERSITY OF CALIFORNIA - BERKELEY	
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		TUBE AND END CLOSEOUT 4.72 mm FLAT TUBE STAVE ASSEMBLY		
DO NOT SCALE PRINT		IDENT. METHOD TAG				
THREADS ARE CLASS 2		PROJECT NAME		SCALE: 1:1		
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NUMBER		DO NOT SCALE PRINTS		
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		PROJECT NAME		MICROFILMED:	DWG. TYPE	SHOWN ON
BREAK EDGES .016 MAX. ON MACHINED WORK		DWG. W. K. MILLER		DATE 12/17/06	PART	nnXnnn
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		CHK BY W. O. MILLER		DATE 12/17/06	PATENT CLEAR:	DESIGN ACCT. NO. CATEGORY CIDE
IN ACCORDANCE WITH ASME Y14.5m & B46.1		APR BY -		DATE -	P1AP-11	AP6250
						DWG. NO. SIZE REV.
						nnXnnn4 1

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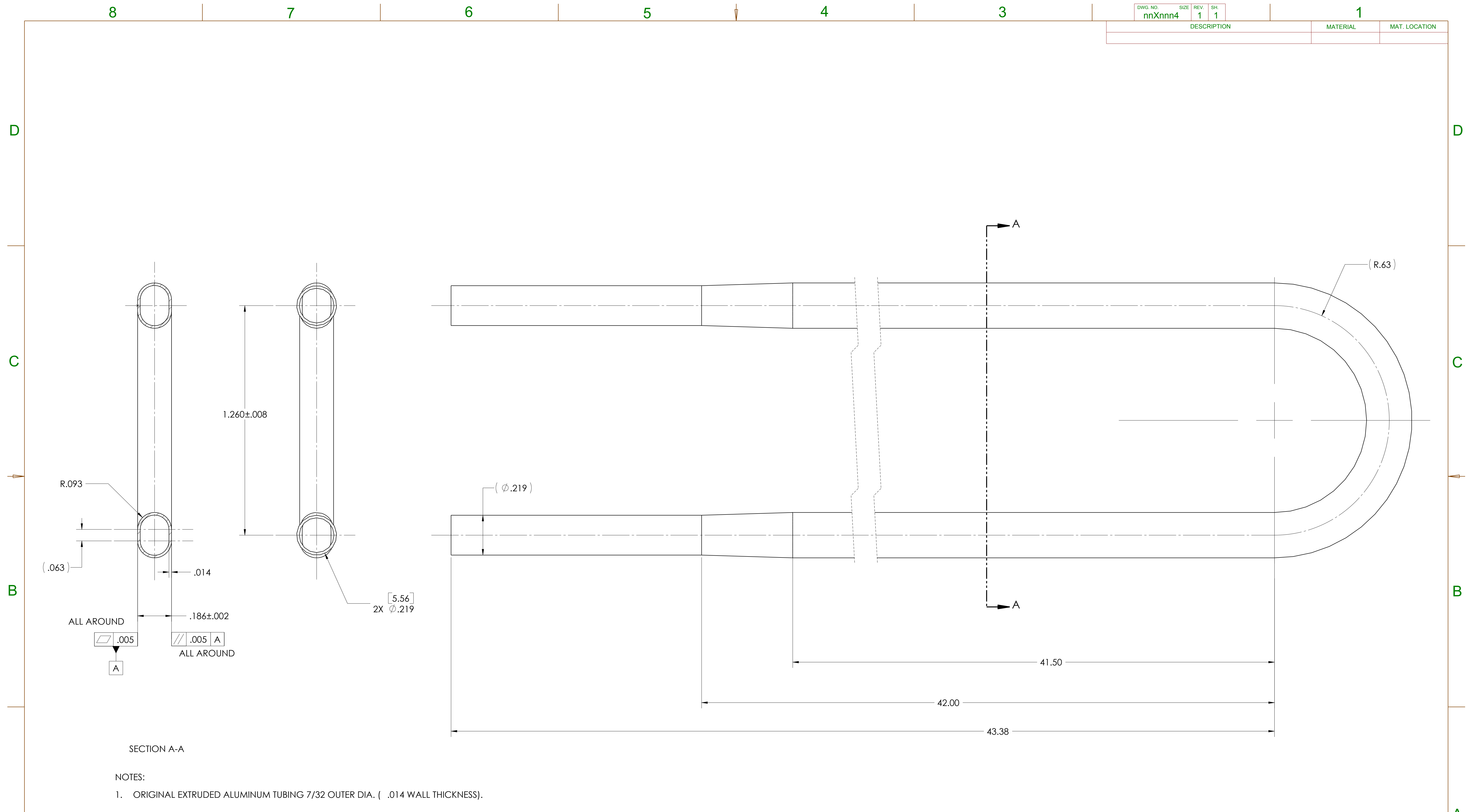
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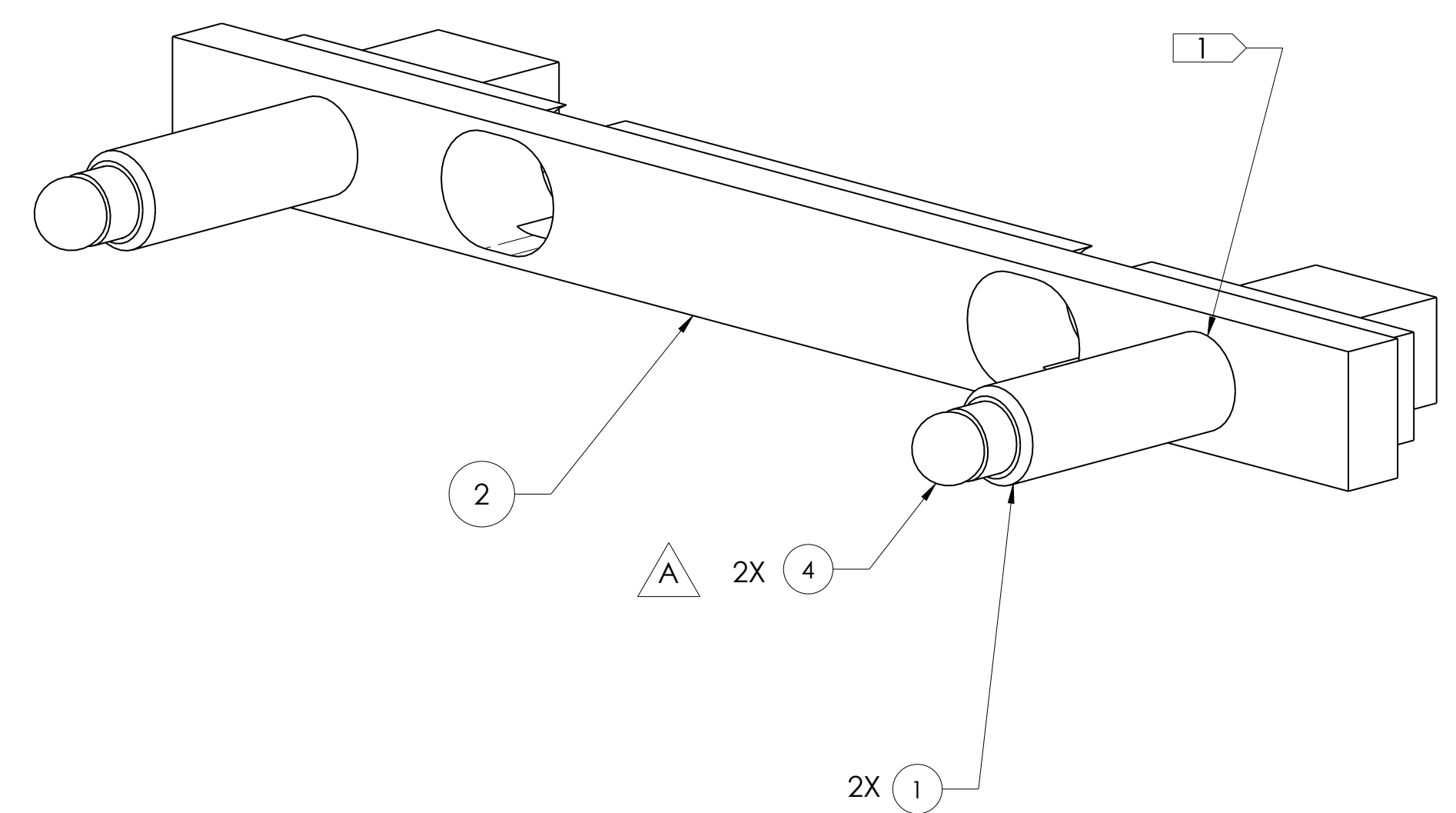
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DWG. NO. nnXnnn4	SIZE 1	REV. 1	SH. 1	1
DESCRIPTION		MATERIAL	MAT. LOCATION	

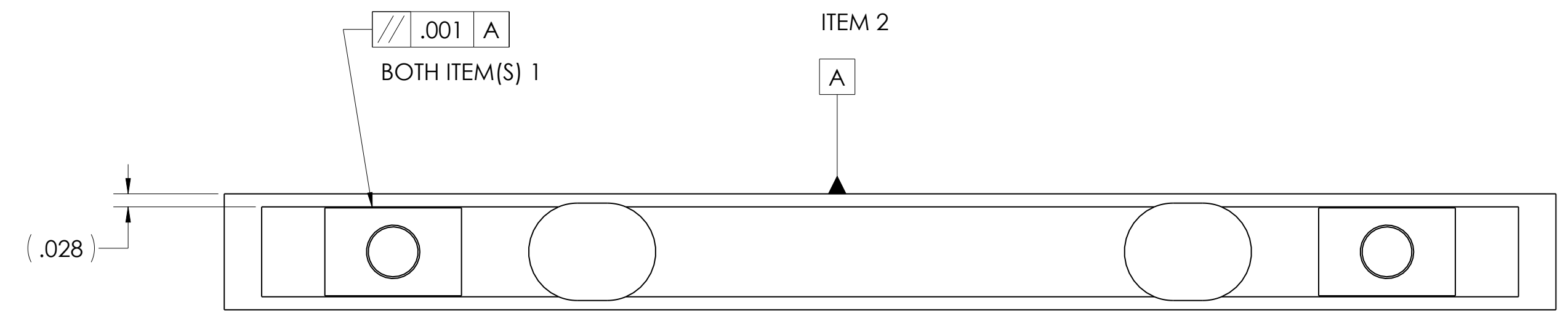
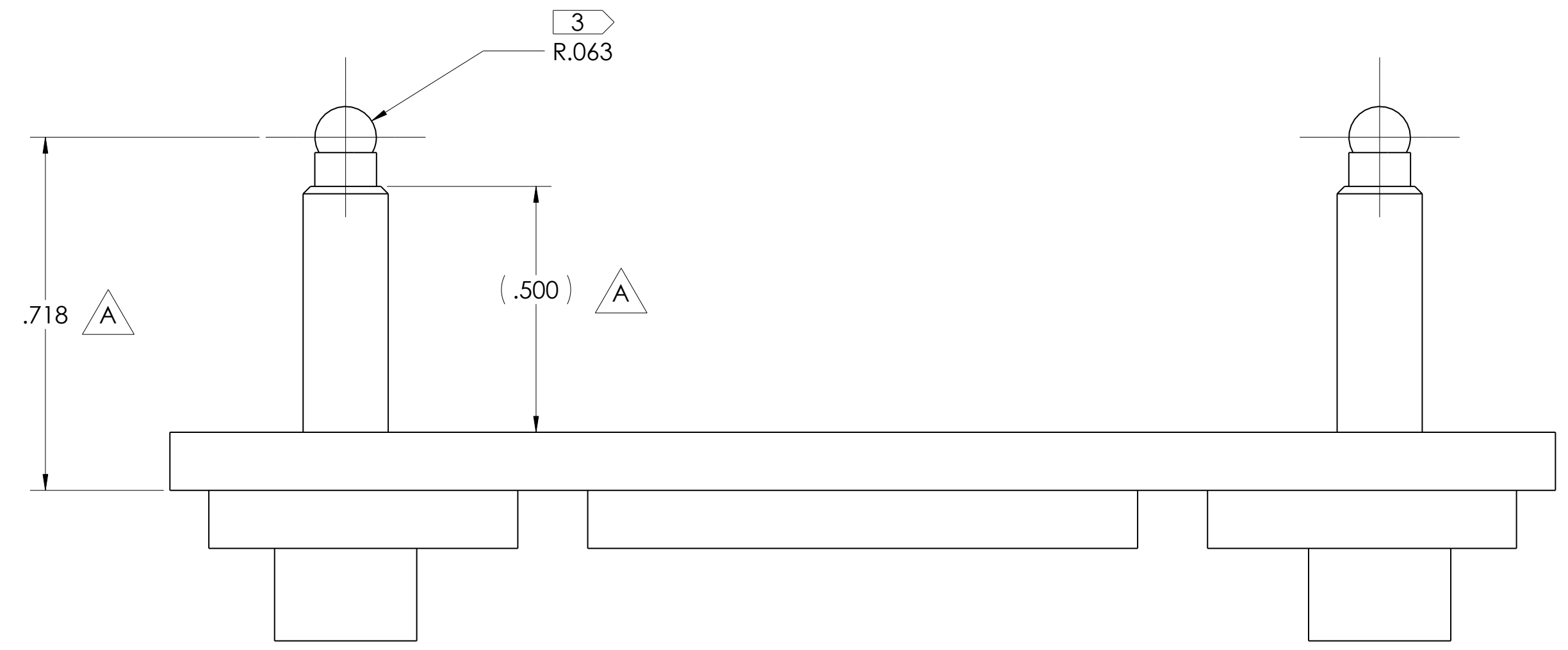


UNLESS OTHERWISE SPECIFIED				SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE		
TOLERANCES		X.X ± 0.1		FRAC. ± 1/64		NO.	BERKELEY NATIONAL LABORATORY		
X.XX ± 0.01		ANGLES ± 30°		FINISH -		DATE	UNIVERSITY OF CALIFORNIA - BERKELEY		
X.XXX ± 0.005		DO NOT SCALE PRINT		SURFACE TREATMENT		ISSD	4.72 mm FLAT COOLING TUBE		
THREADS ARE CLASS 2		CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME		REQD.	SCALE: 4:1		
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		BREAK EDGES .016 MAX. ON MACHINED WORK		DWG. NO.		DATE	DO NOT SCALE PRINTS		
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		IN ACCORDANCE WITH ASME Y14.5m & B46.1		BY		DATE	SHEET 1 OF 1		
REV				DWG		CHK		ZONE	
DATE				CHANGES		DATE		REV.	
								1	

DWG. NO. nnXnnn4	SIZE A	REV. 1	SH.	1
DESCRIPTION		MATERIAL	MAT. LOCATION	



(-1) STAVE END CLOSEOUT #1
QTY: 1



REAR VIEW

- NOTES:
- 1 PRESS FIT ITEM(S) 1 INTO ITEM 2. INTERFERENCE SHOULD BE 0.0000/0.0004".
 - 2. DIMENSIONS ARE IN INCHES.
 - 3 TOOLING BALL PART NO. 448-2 , INDUSTRIAL TECTONICS INC. SHANK ϕ .1255+0.0000/-0.0002.

4	MULT	C7		2	2	448-2	TOOLING BALL (SEE NOTE 3)
3	2	B5		1			END CLOSEOUT #2
2	1	C5			1		END CLOSEOUT #1
1	MULT	MULT		2	2		CLOSEOUT PIN
ITEM NO	SHEET	ZONE	A3	A2	A1	PART DOCUMENT NUMBER	DESCRIPTION

REV	DWG	CHK	ZONE	DATE	CHANGES
A				1-8-06	CHANGES REFLECT NEW TOOLING BALL

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD
X.XX ± 0.01	ANGLES ± 30°	DEL. TO		DATE REQD.
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		
DO NOT SCALE PRINT		IDEN. METHOD TAG		
THREADS ARE CLASS 2		PROJECT NUMBER	ATL-IP-ED-XXXX	
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME	US ATLAS SILICON SUBSYSTEM	
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG. BY	W. K. MILLER	DATE 12/17/2006
BREAK EDGES .016 MAX. ON MACHINED WORK		CHK. BY	W. O. MILLER	DATE 12/17/2006
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR. BY		DATE -
IN ACCORDANCE WITH ASME Y14.5m & B46.1				

ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY
UNIVERSITY OF CALIFORNIA - BERKELEY

END CLOSEOUT SUB ASSEMBLY
4.72 mm FLAT TUBE STAVE ASSEMBLY

MICROFILMED:	DWG. TYPE PART	SHOWN ON nnXnnn	SCALE: 4:1	DO NOT SCALE PRINTS
PATENT CLEAR:	DESIGN ACCT. NO. P1AP-11	CATEGORY CODE AP6250	DWG. NO. nnXnnn4	SIZE A

SHEET 1 OF 2

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DWG. NO. nnXnnn4 SIZE A SH. 2

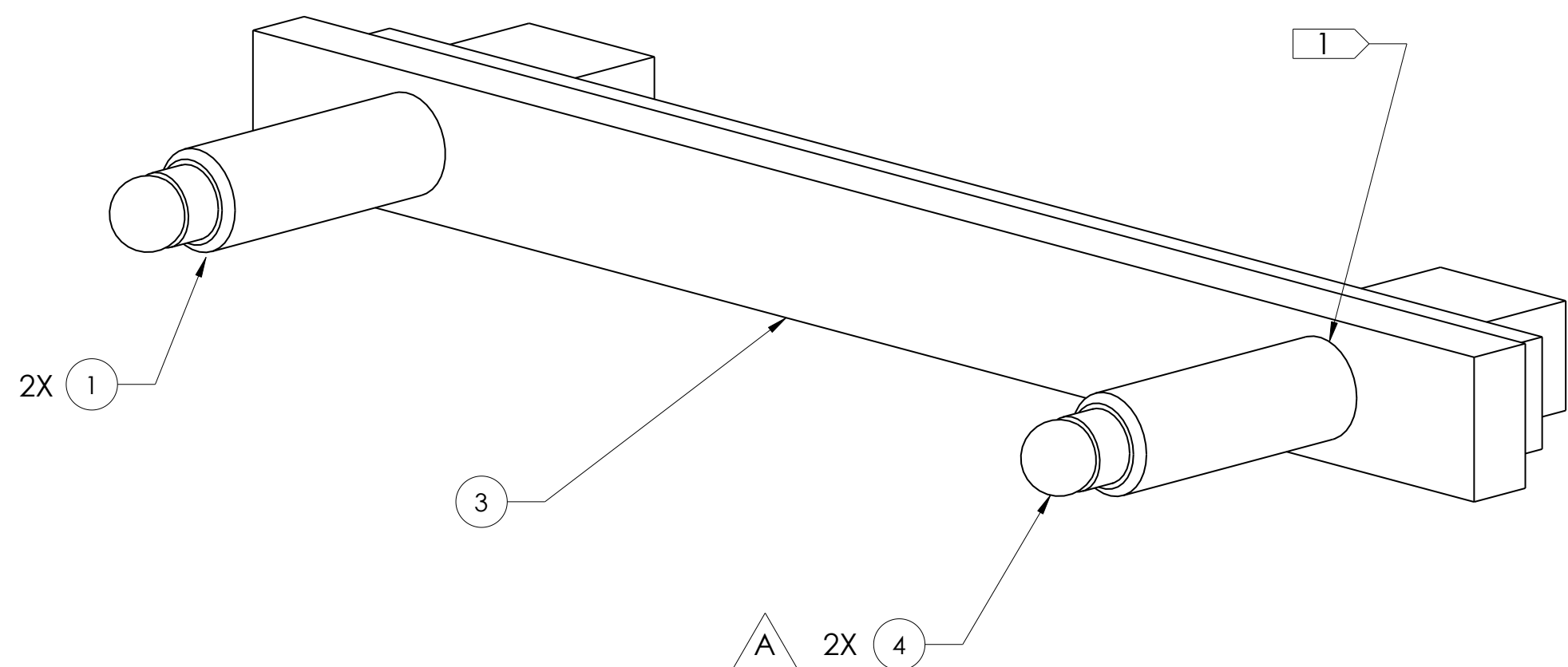
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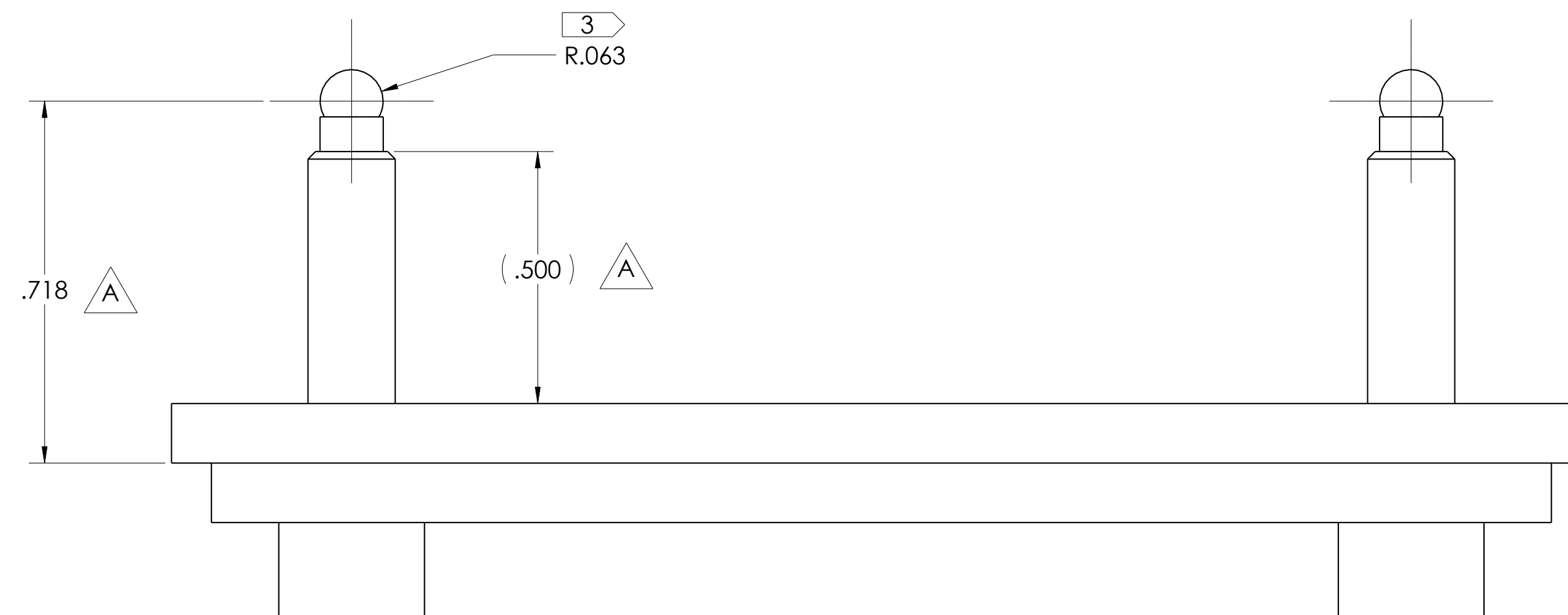
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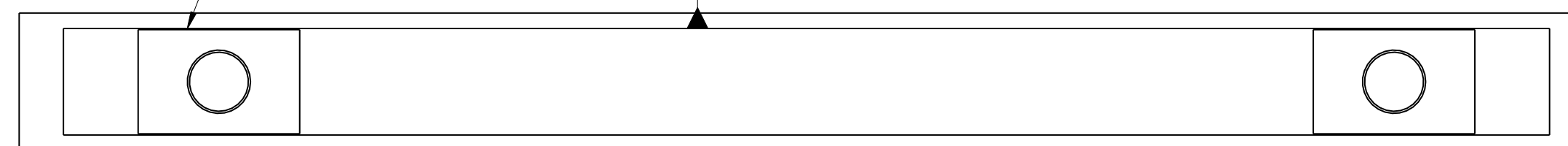


-3 STAVE END CLOSEOUT #2 QTY: 1



///.001 B BOTH ITEM(S) 1

ITEM 2



REAR VIEW

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UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.	DATE REQD.	UNIVERSITY OF CALIFORNIA - BERKELEY	
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		END CLOSEOUT SUB ASSEMBLY		
DO NOT SCALE PRINT		IDEN. METHOD TAG		4.72 mm FLAT TUBE STAVE ASSEMBLY		
THREADS ARE CLASS 2		PROJECT NAME		SCALE: 4:1		
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NUMBER		DO NOT SCALE PRINTS		
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		PROJECT NAME		MICROFILMED:		
BREAK EDGES .016 MAX. ON MACHINED WORK		DWG. W. K. MILLER		DATE 12/17/2006		DWG. TYPE: PART
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		CHK. W. O. MILLER		DATE 12/17/2006		SHOWN ON: nnXnnn
IN ACCORDANCE WITH ASME Y14.5m & B46.1		APR -		DATE -		PATENT CLEAR:
				DESIGN ACCT. NO. P1AP-11		CATEGORY CIDE: AP6250
				DWG. NO. nnXnnn4		SHEET 2 OF 2
				SIZE: A		REV. A

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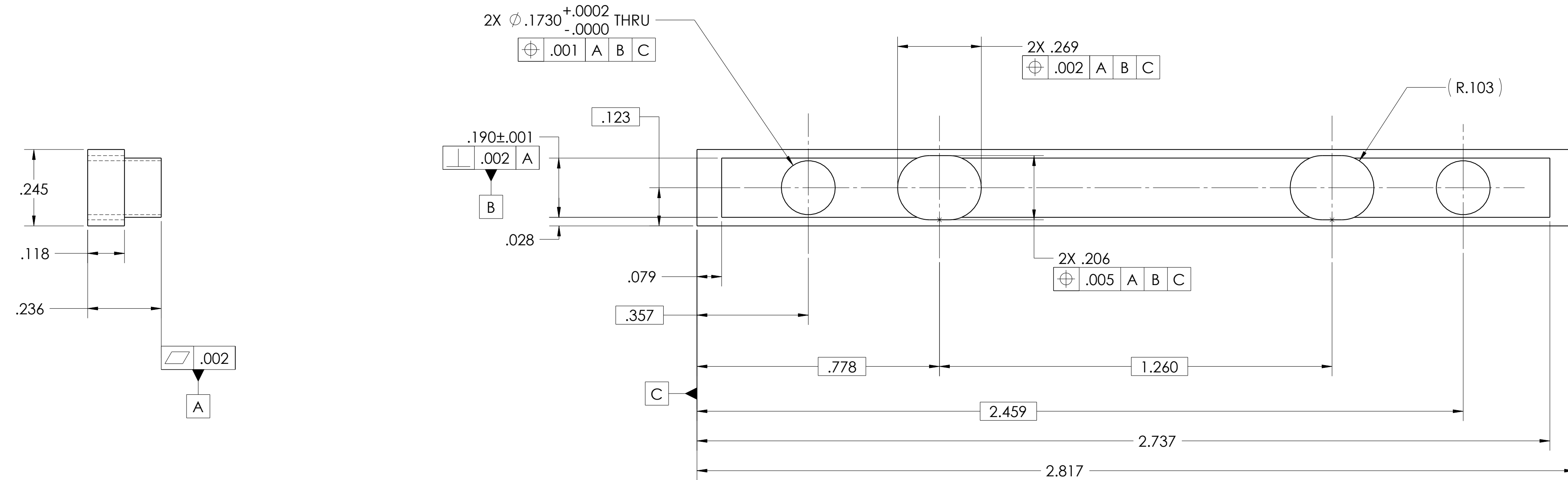
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DWG. NO. nnXnnn4	SIZE 1	REV. 1	SH. 1
DESCRIPTION		MATERIAL	MAT. LOCATION



-1 STAVE END CLOSEOUT PART #1
 QTY: 1
 MATERIAL: AlBeMET 162H

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE		
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
	X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.		UNIVERSITY OF CALIFORNIA - BERKELEY	
	X.XXX ± 0.005	FINISH -	SURFACE TREATMENT				
DO NOT SCALE PRINT			IDEN. METHOD	TAG	END CLOSEOUT		
THREADS ARE CLASS 2			PROJECT NUMBER	ATL-IP-ED-XXXX	4.72 mm FLAT TUBE STAVE ASSEMBLY		
CHAMFER ENDS OF ALL SCREW THREADS 30°			PROJECT NAME	US ATLAS SILICON SUBSYSTEM	MICROFILMED:	DWG. TYPE	
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG. BY	W. K. MILLER	DATE	12/17/2006	
BREAK EDGES .016 MAX. ON MACHINED WORK			CHK. BY	W. O. MILLER	DATE	12/17/2006	
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE			APR. BY		DATE		
IN ACCORDANCE WITH ASME Y14.5m & B46.1					PATENT CLEAR:	DESIGN ACCT. NO.	
REV	DWG	CHK	ZONE	DATE	CHANGES	SCALE: 4:1	DO NOT SCALE PRINTS
						PART	SHOWN ON
						nnXnnn	SCALE: 4:1
						P1AP-11	AP6250
						nnXnnn4	SHEET 1 OF 2
						1	REV. 1

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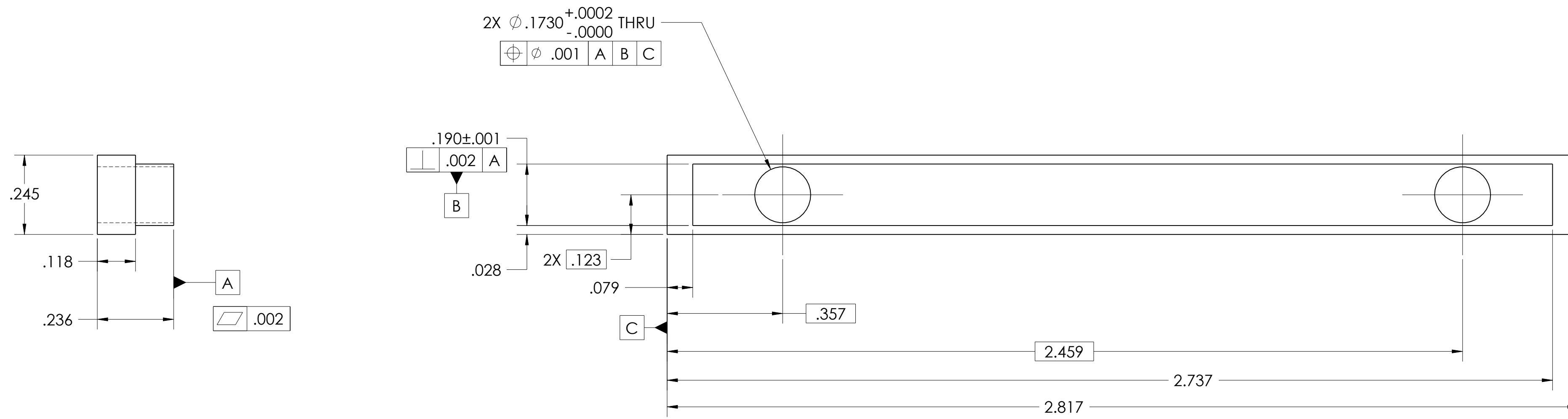
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-3 STAVE END CLOSEOUT PART #2
 QTY: 1
 MATERIAL: AIBeMET 162H

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.	DATE REQD.	UNIVERSITY OF CALIFORNIA - BERKELEY	
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		END CLOSEOUT 4.72 mm FLAT TUBE STAVE ASSEMBLY		
DO NOT SCALE PRINT		IDEN. METHOD TAG				
THREADS ARE CLASS 2		PROJECT NAME		MICROFILMED: DWG. TYPE SHOWN ON SCALE: 4:1 DO NOT SCALE PRINTS		
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NUMBER				
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG. BY		SHEET 2 OF 2		
BREAK EDGES .016 MAX. ON MACHINED WORK		DATE 12/17/2006				
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		CHK BY		P1AP-11 AP6250 nnXnnn4 1		
IN ACCORDANCE WITH ASME Y14.5m & B46.1		DATE 12/17/2006				
		APR BY				

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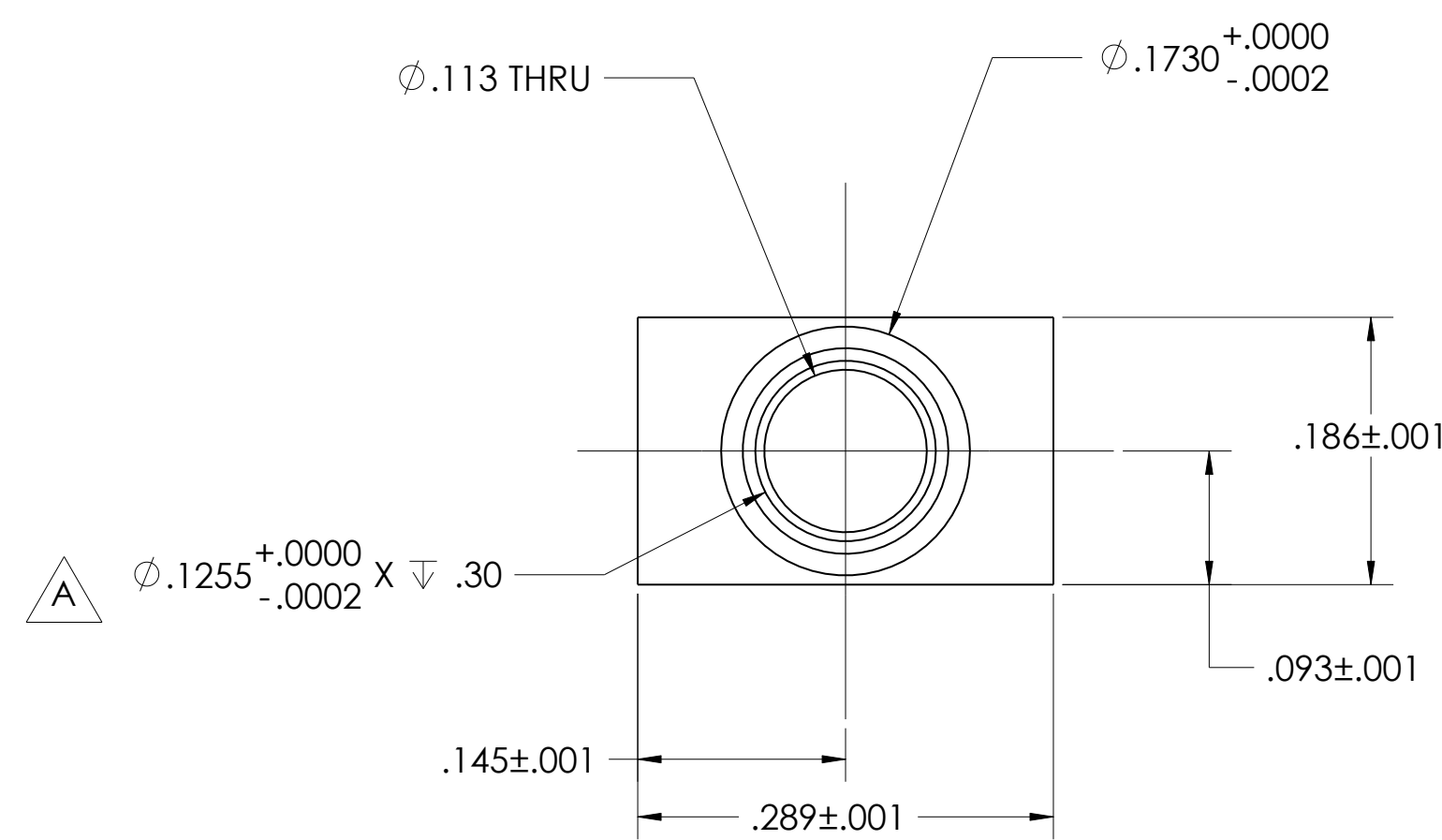
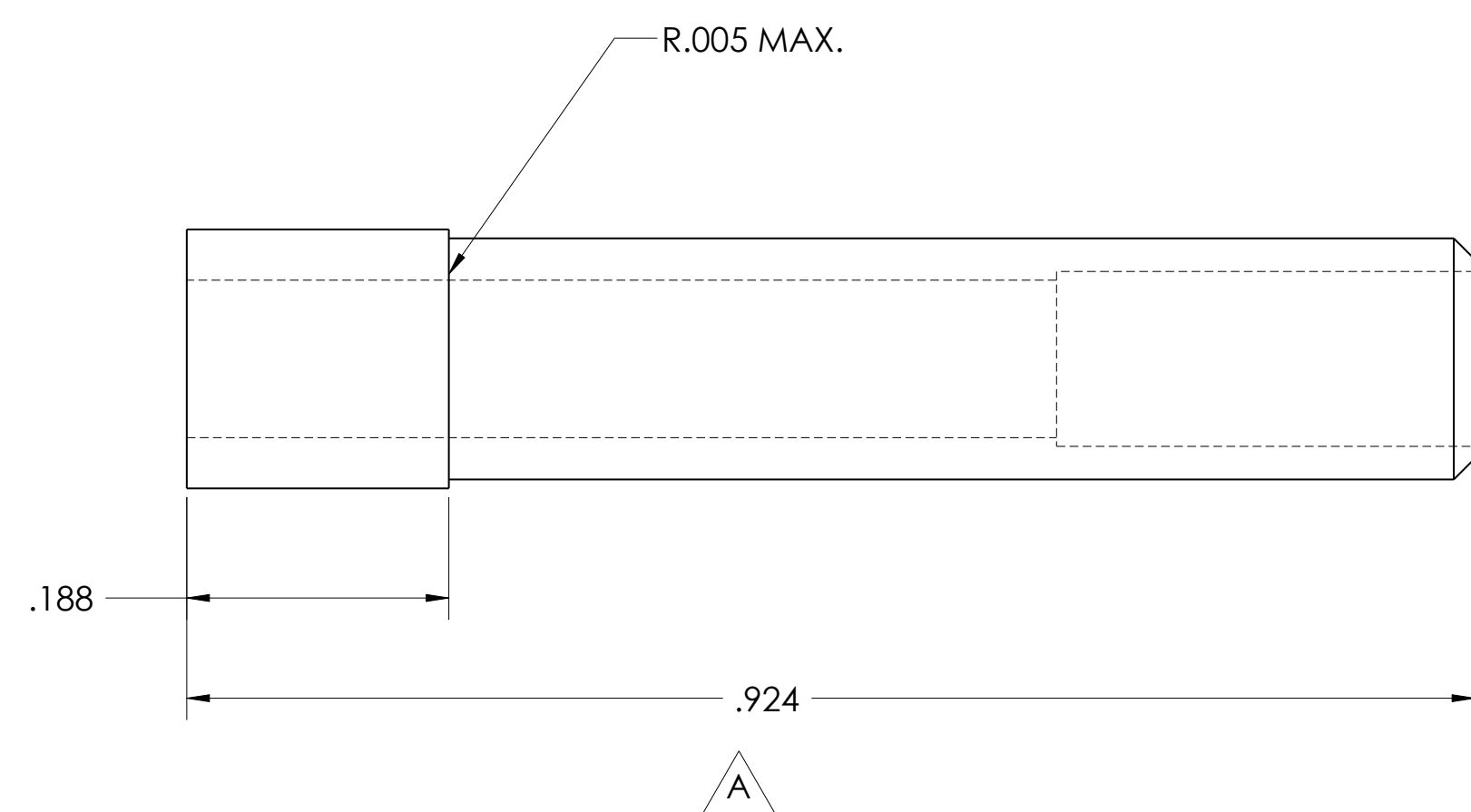
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DWG. NO. nnXnnn4	SIZE A	REV. 1	SHEET 1
DESCRIPTION		MATERIAL	MAT. LOCATION



NOTES:

- 1. MATERIAL: AlBeMET 162H

				UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO. DATE ISSD		ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY		
				X.X ± 0.1 FRAC. ± 1/64		ACCT. NO. NO. REQD.		DATE ISSD		UNIVERSITY OF CALIFORNIA - BERKELEY		
				X.XX ± 0.01 ANGLES ± 30°		DEL. TO		DATE REQD.		CLOSEOUT PIN 4.72 mm TUBE STAVE ASSEMBLY		
				X.XXX ± 0.005 FINISH -		SURFACE TREATMENT						
				DO NOT SCALE PRINT		IDENT. METHOD TAG				MICROFILMED: DWG. TYPE SHOWN ON SCALE: 8:1 DO NOT SCALE PRINTS		
				THREADS ARE CLASS 2		PROJECT NUMBER						
				CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME				DESIGN ACCT. NO. CATEGORY CODE DWG. NO. SIZE REV.		
				CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG. W. K. MILLER		DATE 12/17/2006				
				BREAK EDGES .016 MAX. ON MACHINED WORK		CHK BY W. O. MILLER		DATE 12/17/2006		P1AP-11 AP6250 nnXnnn4 A		
				REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR -		DATE -				
				IN ACCORDANCE WITH ASME Y14.5m & B46.1								
REV	DWG	CHK	ZONE	DATE	CHANGES							

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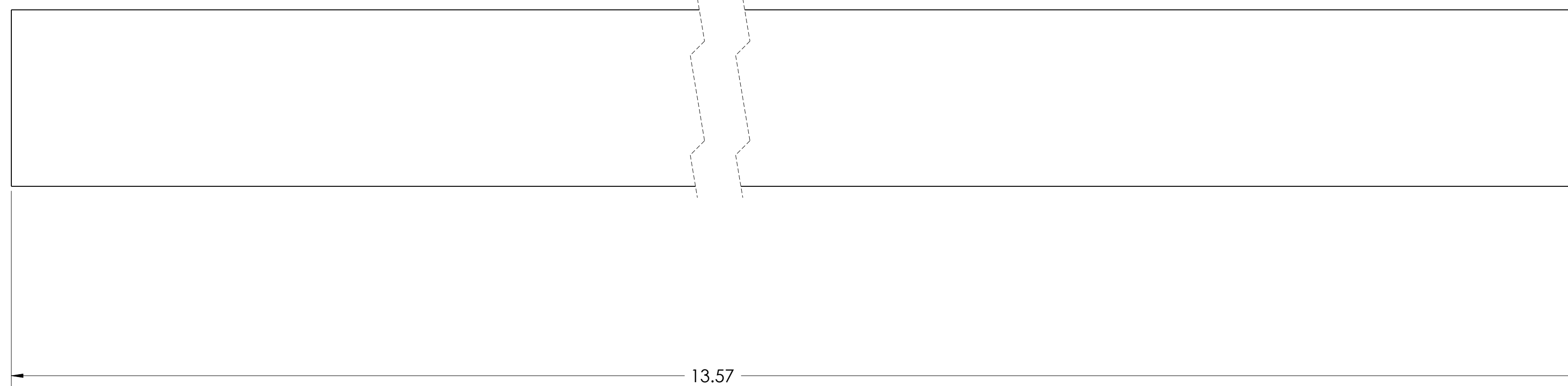
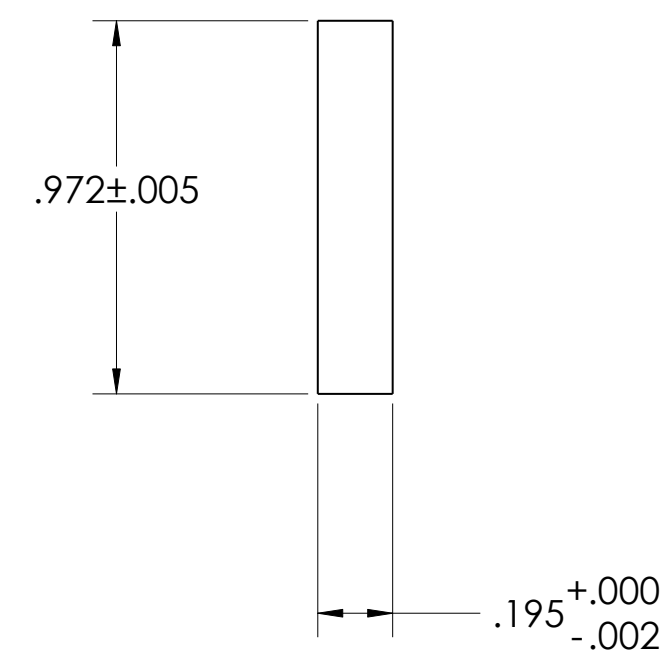
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DWG. NO.	SIZE	REV.	SH.
nnXnnn4		1	1

DESCRIPTION	MATERIAL	MAT. LOCATION



-1 HONEYCOMB PART #1
 QTY: 1
 MATERIAL: ULTRACORE UCF-119-3/16 -3.5
 GRAPHITE FIBER HONEYCOMB WITH
 RS-3 CYANATE ESTER RESIN

NOTES:
 1. UNITS ARE IN INCHES.

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY
	X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.		UNIVERSITY OF CALIFORNIA - BERKELEY
	X.XXX ± 0.005	FINISH -	SURFACE TREATMENT			HONEYCOMB CORE MATERIAL
DO NOT SCALE PRINT			IDEN METHOD TAG			4.72 mm FLAT TUBE STAVE ASSEMBLY
THREADS ARE CLASS 2			PROJECT NUMBER			
CHAMFER ENDS OF ALL SCREW THREADS 30°			PROJECT NAME			
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG. BY	DATE		
BREAK EDGES .016 MAX. ON MACHINED WORK			W. K. MILLER	12/17/2006		
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE			CHK BY	DATE		
IN ACCORDANCE WITH ASME Y14.5m & B46.1			W. O. MILLER	12/17/2006		
			APR BY	DATE		
REV	DWG	CHK	ZONE	DATE	CHANGES	

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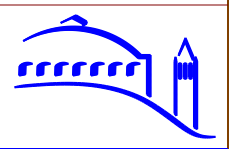
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MICROFILMED:	DWG. TYPE	SHOWN ON	SCALE:	DO NOT SCALE PRINTS
	PART	nnXnnn	2:1	
PATENT CLEAR:	DESIGN ACCT. NO.	CATEGORY CODE	DWG. NO.	SIZE
	P1AP-11	AP6250	nnXnnn4	REV.
				1



SHEET 1 OF 2

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DWG. NO.	SIZE	REV.	SH.
nnXnnn4		1	2

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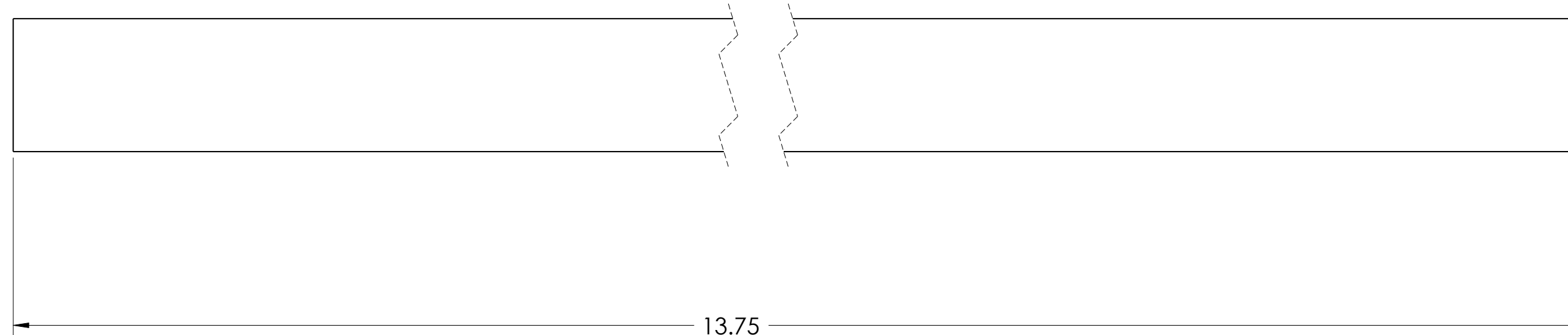
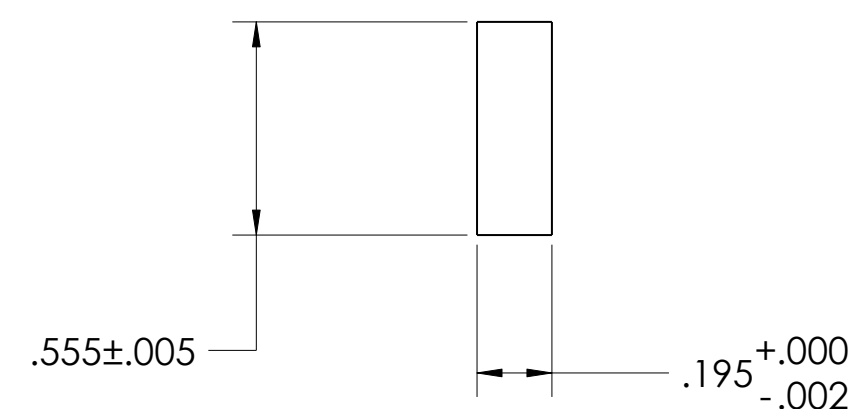
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(-3) HONEYCOMB PART #2
 QTY : 2
 MATERIAL: ULTRACORE UCF-119-3/16 -3.5
 GRAPHITE FIBER HONEYCOMB WITH
 RS-3 CYANATE ESTER RESIN

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.	DATE REQD.	UNIVERSITY OF CALIFORNIA - BERKELEY	
X.XXX ± 0.005	FINISH -	SURFACE TREATMENT		HONEYCOMB CORE MATERIAL		
DO NOT SCALE PRINT		IDEN. METHOD	TAG	4.72 mm FLAT TUBE STAVE ASSEMBLY		
THREADS ARE CLASS 2		PROJECT NUMBER	ATL-IP-ED-XXXX	SCALE: 2:1		
CHAMFER ENDS OF ALL SCREW THREADS 30°		PROJECT NAME	US ATLAS SILICON SUBSYSTEM	MICROFILMED:	DWG. TYPE	SHOWN ON
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS		DWG. BY	W. K. MILLER	DATE	12/17/06	PART
BREAK EDGES .016 MAX. ON MACHINED WORK		CHK. BY	W. O. MILLER	DATE	12/17/06	nnXnnn
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE		APR. BY		PATENT CLEAR:	DESIGN ACCT. NO.	AP6250
IN ACCORDANCE WITH ASME Y14.5m & B46.1		BY		SCALE:	2:1	SHEET 2 OF 2
				DWG. NO.	nnXnnn4	REV. 1

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DWG. NO. nnXnnn4 SIZE 1 REV. 1 SH. 1

DESCRIPTION

MATERIAL

MAT. LOCATION

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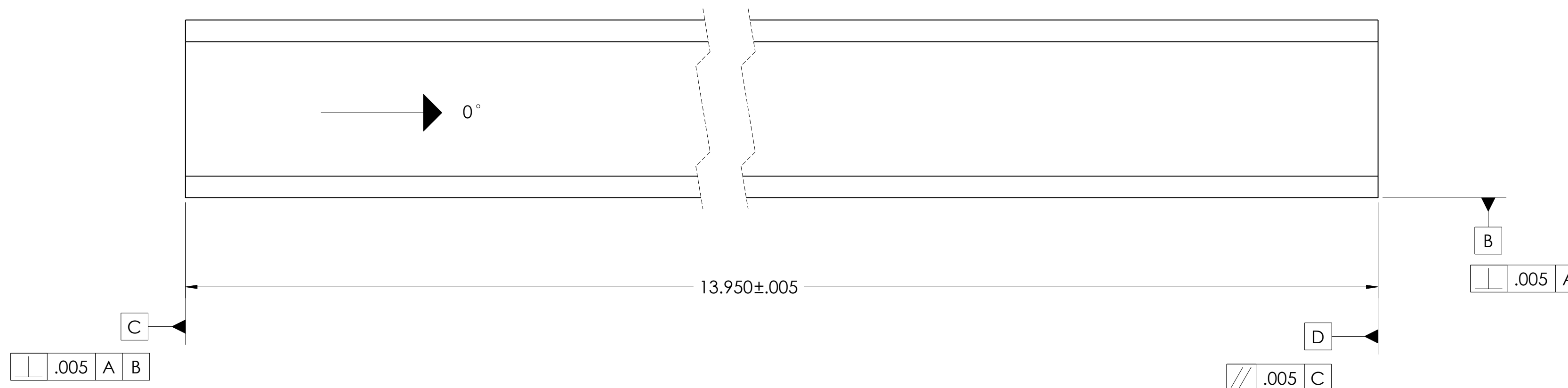
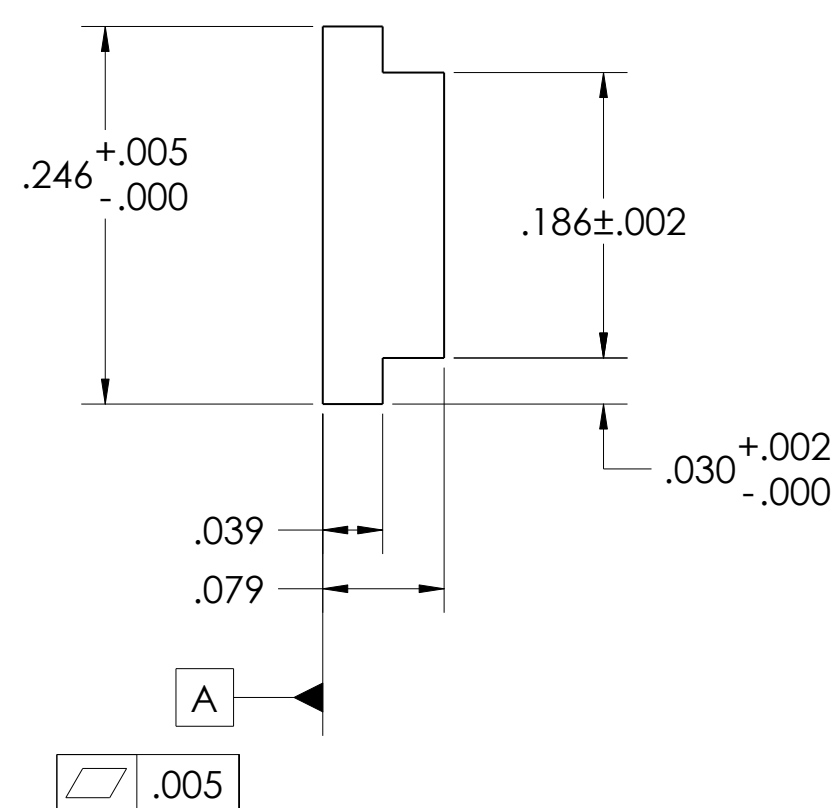
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NOTES:

- 1. K13D2U 90fsm FIBER AREAL WEIGH T/EX 1515 CYANATE ESER RESIN (250 °F CURE) 34% RESIN CONTENT. 6" UNITAPE WIDTH (BRYTE TECHNOLOGY).
- 2. FIBER ORIENTATION: (90,0,0,0,0/S).
- 3. FIBER VOLUME FRACTION 60%.
- 4. UNITS ARE IN INCHES.

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE		
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY	
	X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.		UNIVERSITY OF CALIFORNIA - BERKELEY	
	X.XXX ± 0.005	FINISH -	SURFACE TREATMENT				
DO NOT SCALE PRINT			IDEN. METHOD	TAG	SIDE COMPOSITE CLOSEOUT		
THREADS ARE CLASS 2			PROJECT NUMBER	ATL-IP-ED-XXXX	4.72 mm STAVE ASSEMBLY		
CHAMFER ENDS OF ALL SCREW THREADS 30°			PROJECT NAME	US ATLAS SILICONE SUBSYSTEM	MICROFILMED:	DWG. TYPE	
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS			DWG. W. K. MILLER	DATE 12/17/2006		PART	
BREAK EDGES .016 MAX. ON MACHINED WORK			CHK W. O. MILLER	DATE 12/17/2006	PATENT CLEAR:	DESIGN ACCT. NO.	
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE			APR -	DATE -		CATEGORY CIDE	
IN ACCORDANCE WITH ASME Y14.5m & B46.1						DWG. NO.	
REV	DWG	CHK	ZONE	DATE	CHANGES	SCALE: 8:1	DO NOT SCALE PRINTS
-						SHEET 1 OF 1	
						nnXnnn4	SIZE 1
						P1AP-11	REV. 1

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DWG. NO.	SIZE	REV.	SH.
nnXnnn4		1	1

DESCRIPTION	MATERIAL	MAT. LOCATION

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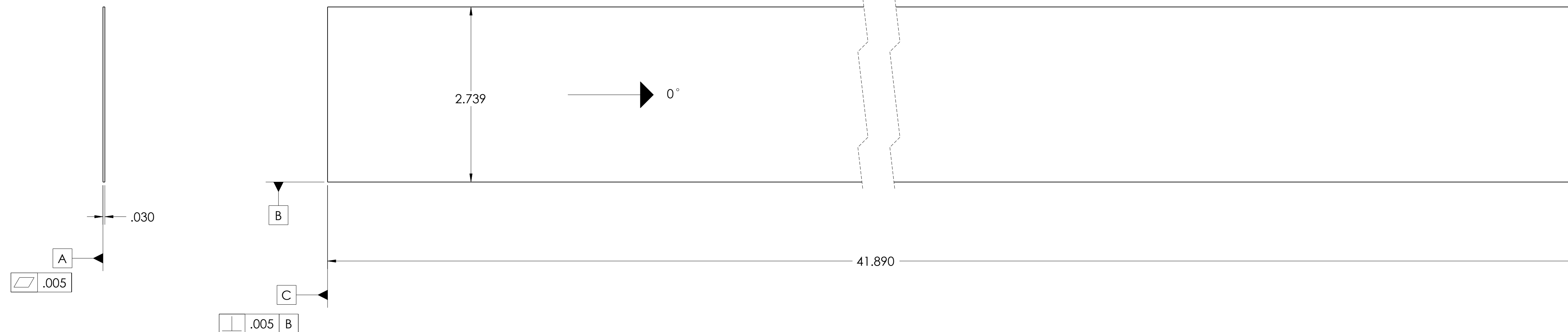
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NOTES:

1. K13D2U 90fs/m FIBER AREAL WEIGHT/EX 1515 CYANATE ESER RESIN (250 °F CURE) 34% RESIN CONTENT. 6" UNITAPE WIDTH (BRYTE TECHNOLOGY).
2. FIBER ORIENTATION: (90,0,0,0/S).
3. FIBER VOLUME FRACTION 60%.
4. DIMENSIONS ARE IN INCHES.

UNLESS OTHERWISE SPECIFIED		SHOP ORDERS		SER. NO.	ERNEST ORLANDO LAWRENCE	
TOLERANCES	X.X ± 0.1	FRAC. ± 1/64	ACCT. NO.	NO. REQD.	DATE ISSD	BERKELEY NATIONAL LABORATORY
	X.XX ± 0.01	ANGLES ± 30°	DEL. TO	DATE REQD.		UNIVERSITY OF CALIFORNIA - BERKELEY
	X.XXX ± 0.005	FINISH -	SURFACE TREATMENT			
DO NOT SCALE PRINT			IDEN. METHOD	TAG	COMPOSITE FACESHEET	
THREADS ARE CLASS 2	PROJECT NUMBER	PROJECT NAME	PROJECT NO.	DATE	4.72 mm TUBE STAVE ASSEMBLY	
CHAMFER ENDS OF ALL SCREW THREADS 30°	DWG. W. K. MILLER	DATE 12/17/2006	DATE 12/17/2006		MICROFILMED:	DWG. TYPE
CUT ROUND, 1.5 THREAD RELIEF ON MACHINED THREADS	CHK BY W. O. MILLER	DATE 12/17/2006	DATE -		PART	SHOWN ON
BREAK EDGES .016 MAX. ON MACHINED WORK	APR -				nnXnnn	SCALE: 1:1
REMOVE BURRS, WELD SPLATTER & LOOSE SCALE					P1AP-11	DO NOT SCALE PRINTS
IN ACCORDANCE WITH ASME Y14.5m & B46.1					AP6250	
REV	DWG	CHK	ZONE	DATE	CHANGES	
-						

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SCALE: 1:1	DO NOT SCALE PRINTS
SHEET 1 OF 1	
DWG. NO. nnXnnn4	REV. 1