

8

7

6

5

4

3

2

1

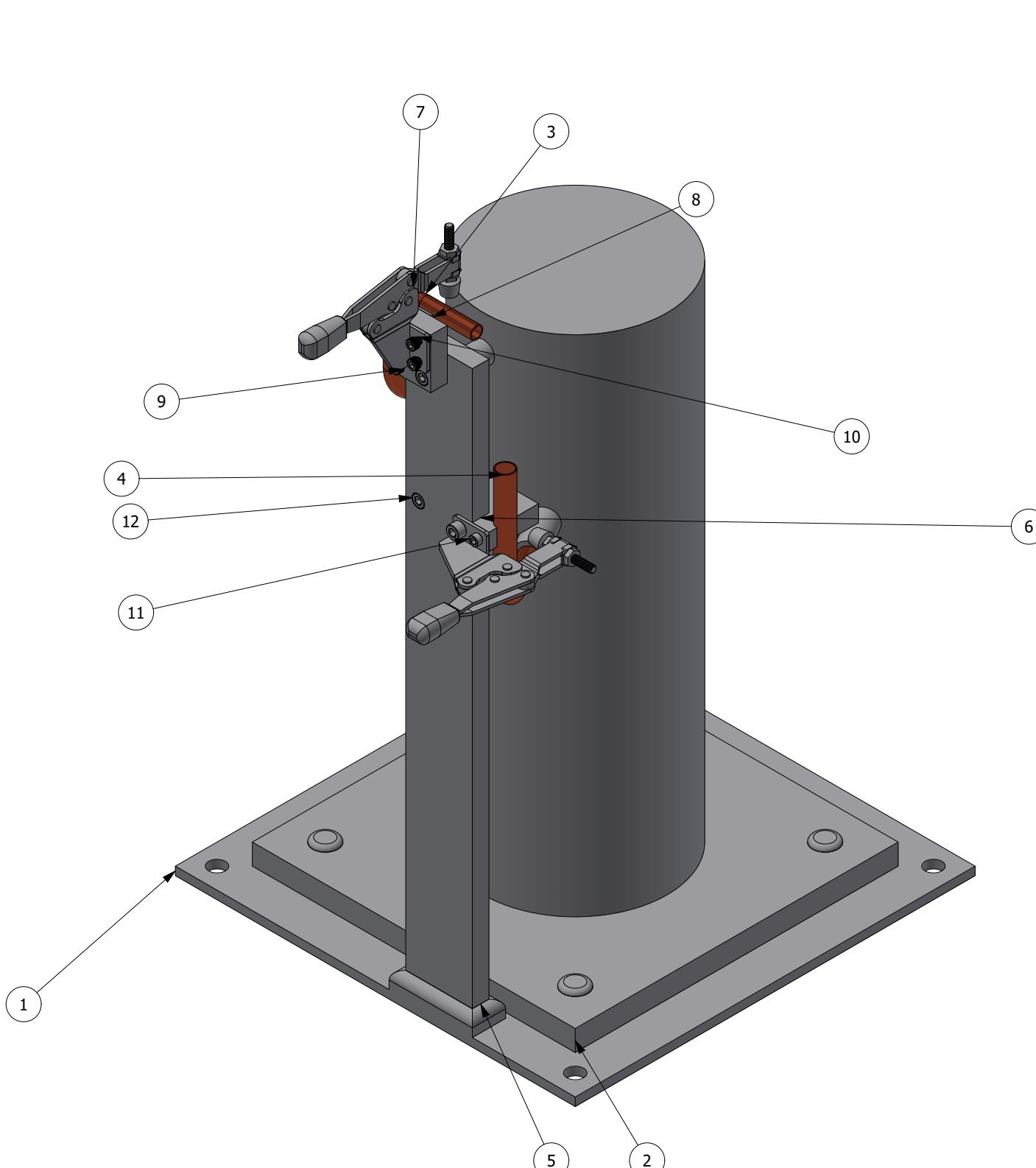
NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.

2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



13	91274A181	1	Zinc-Aluminum-Coated Alloy Steel Socket Head Screw	
12	90128A363	1	Zinc-Plated Alloy Steel Socket Head Screw	
11	91274A048	1	Zinc-Aluminum-Coated Alloy Steel Socket Head Screw	
10	90128A194	3	Zinc-Plated Alloy Steel Socket Head Screw	
9	90128A365	3	Zinc-Plated Alloy Steel Socket Head Screw	
8	52009-1-04	1	clamp offset	
7	2423N11	2	Side-Mount Hold-Down Toggle Clamp	
6	52009-1-03	1	side holder	
5	52009-1-02	1	riser	
4	10-52305 placeholder pipe	1	Copper tube, .375 OD, length including fitting	
3	10-52303 placeholder pipe	1	Copper tube, .375 OD, length including fitting	
2	compressor	1	*not a part, only in CAD*	
1	52009-1-01	1	base plate	
ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION

PARTS LIST

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES X ± 1° 1 PLACE DIM. X ± .1 2 PLACE DIM. X ± .01 3 PLACE DIM. X ± .005	CONTRACT NO. DATE DRAWN B. VILLANUEVA 11/4/2023 CHECKED	
			MECHANICAL B. VILLANUEVA 11/4/2023	
			ELECTRICAL	
			OPERATIONS B. BLACH	
			APPROVED G. COLE	
SIZE	CAGE CODE	DRAWING NO.		
B	0A0B7	10-52009 braze fixture		
SCALE: NONE	UNIT WT.	REV	SHEET	1 OF 5

QUALITY SYMBOLS	DENOTES CRITICAL INSPECTION	NEXT ASSY USED ON APPLICATION	THIRD ANGLE PROJECTION

Solutions Through Advanced Technology
MAINSTREAM
 ENGINEERING

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

8

4

1

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 12" X 12" X 1"

1

D

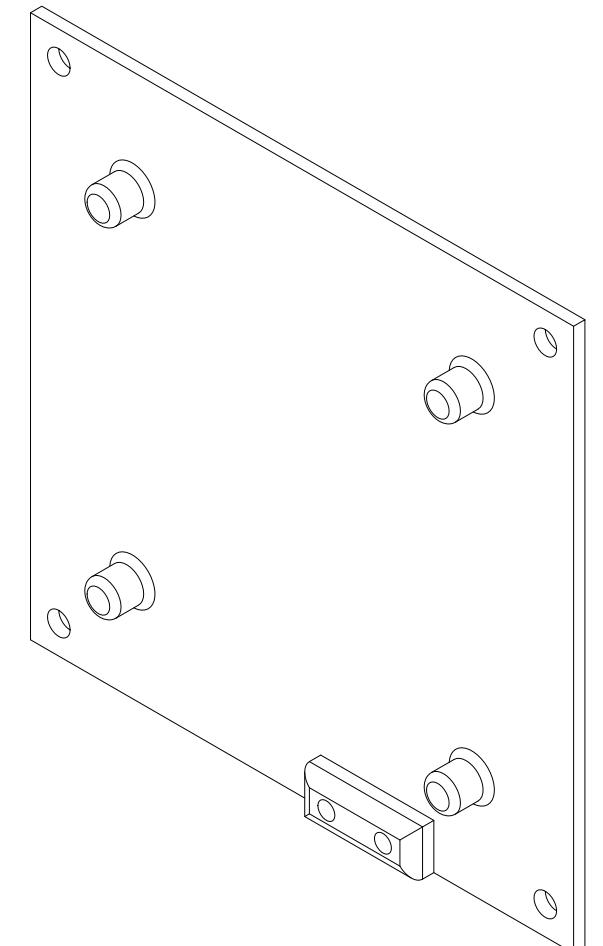
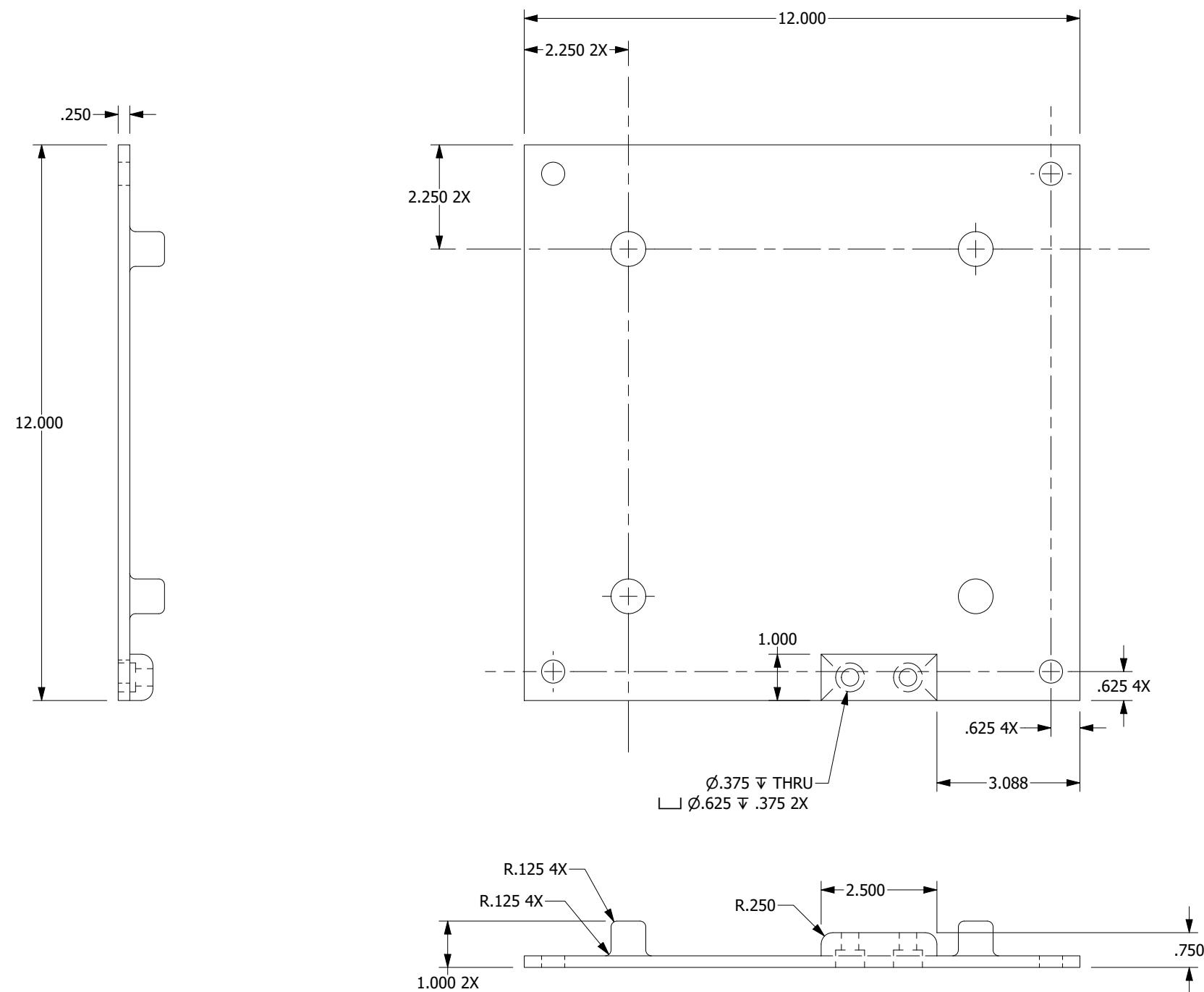
C

B

20

A

A



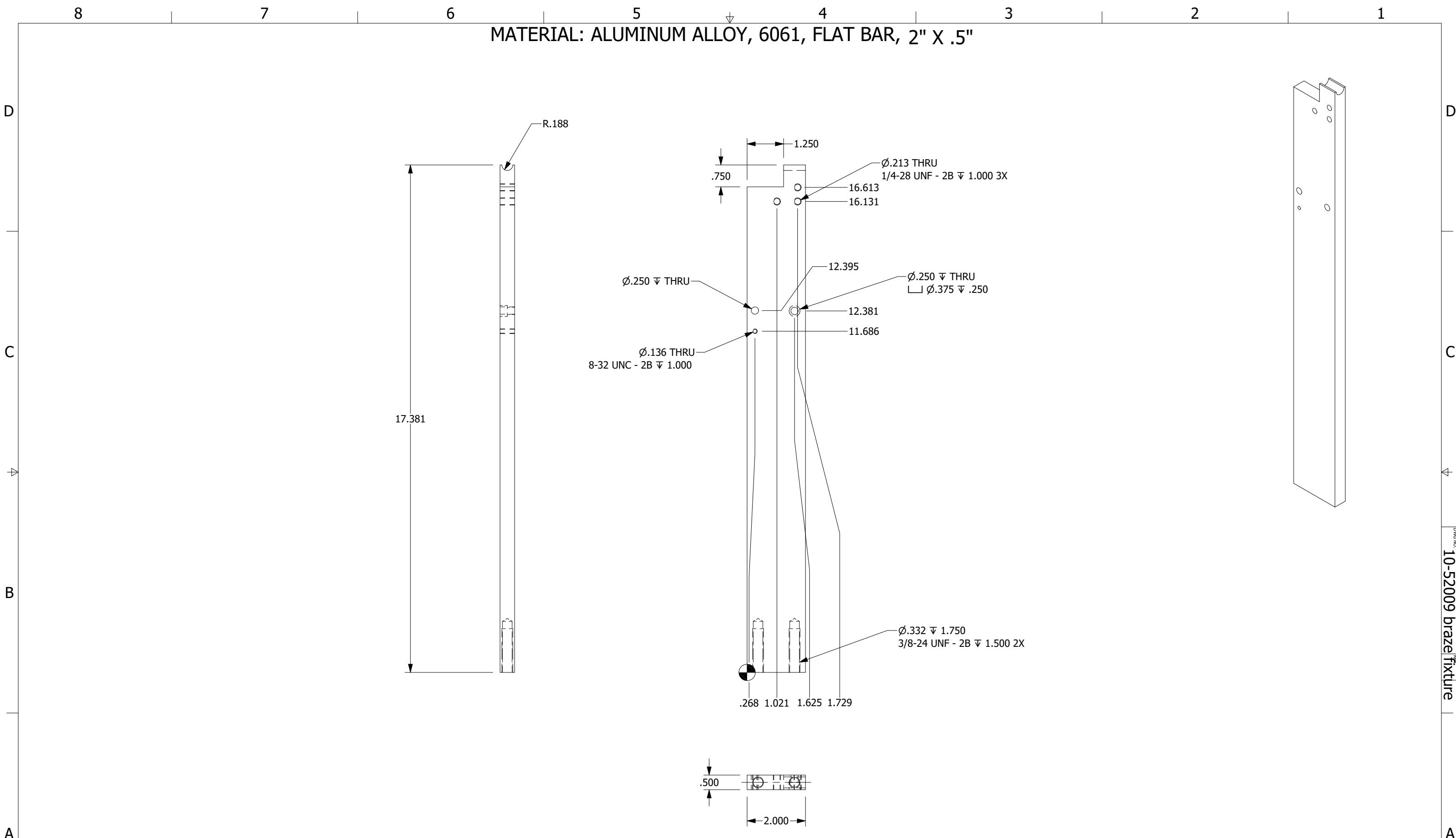
DWG NO. 10-52009 braze fixture REV A

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52009-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52009 braze fixture
SCALE: NONE		REV
		SHEET 2 OF 5

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52009-1-02

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52009 braze fixture
SCALE: NONE	REV	SHEET 3 OF 5

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

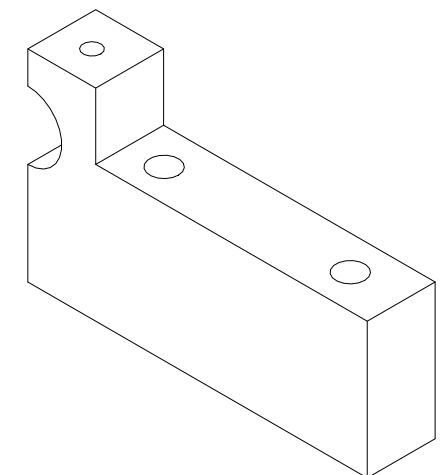
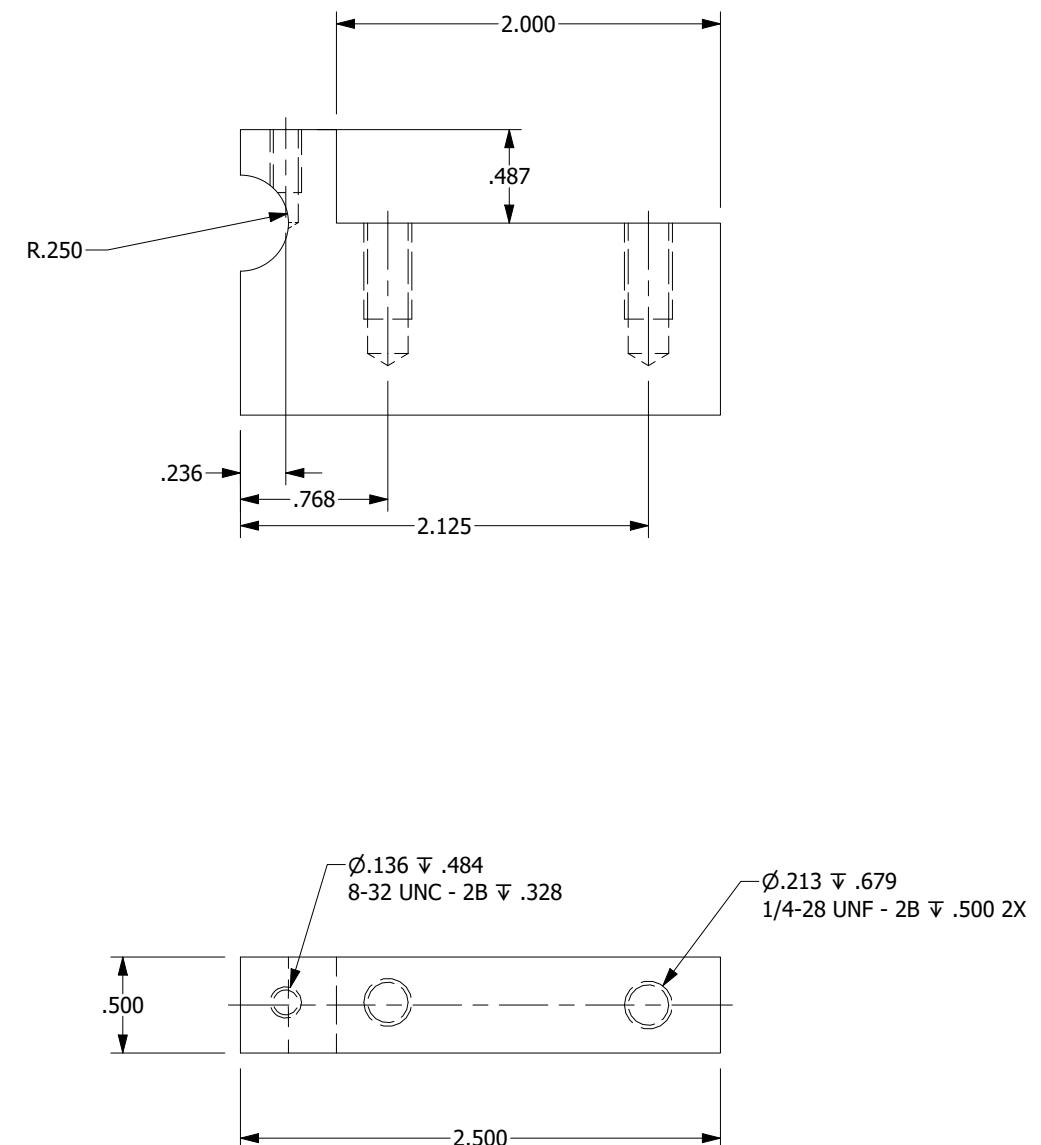
D

C

C

A

A



DRAWING NO. 10-52009 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52009-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52009 braze fixture
SCALE: NONE		REV SHEET 4 OF 5

8

7

6

5

4

3

2

1

8

4

1

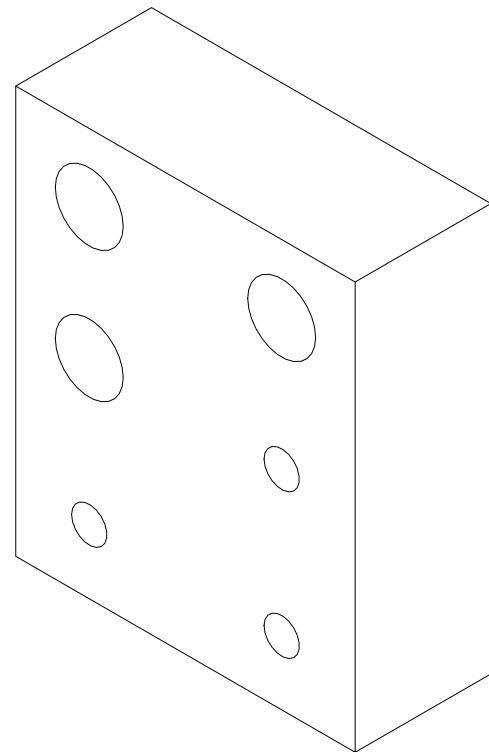
MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

1

D

A technical drawing showing a vertical profile. A vertical line is marked with arrows at both ends. The top arrow has a dimension line above it labeled ".500". The bottom arrow has a dimension line below it labeled "1.500".

The technical drawing illustrates a cross-sectional view of a mechanical component. It features two vertical dashed lines representing axes. Two circular features are positioned along these axes: one on the left labeled $\phi .250$ THRU and another on the right labeled $\phi .136$ THRU. The distance between the centers of these two holes is indicated as 1.250. Below the holes, there are two smaller circular features. The distance from the bottom of the top hole to the bottom of the bottom hole is .768. The distance from the bottom of the bottom hole to the bottom of the part is .236. At the very bottom, horizontal dimensions are given as .271, .979, and 1.250.



DWG NO. 10-52009 braze fixture REV. B

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 8
PART NO. 52009-1-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52009 braze fixture
SCALE: NONE		REV
		SHEET 5 OF 5

8

7

6

5

4

3

2

1

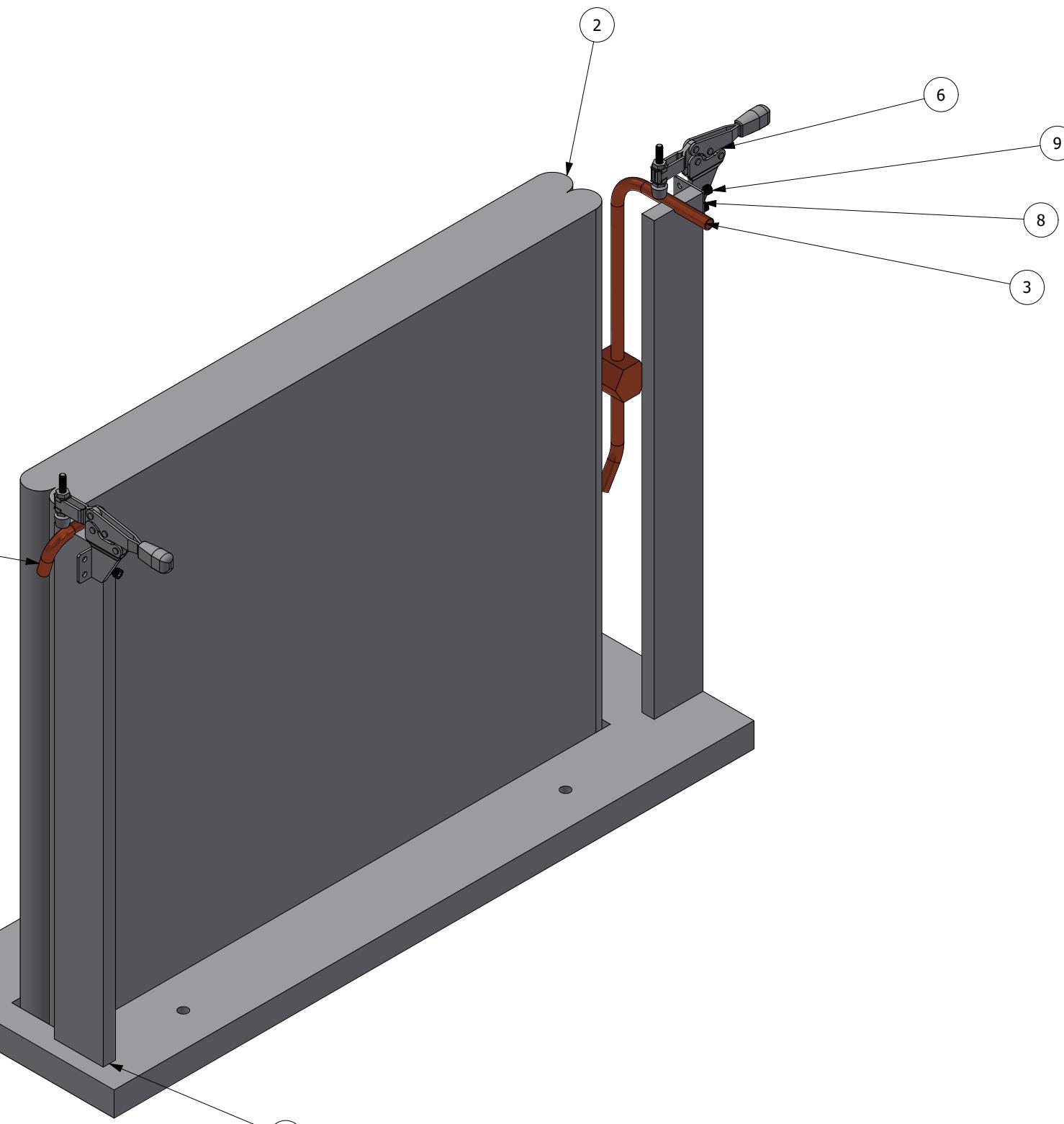
NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.

2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

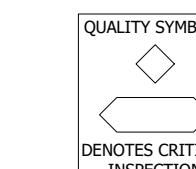
REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
PARTS LIST				

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES X ± 1° 1 PLACE DIM. X ± .1 2 PLACE DIM. X ± .01 3 PLACE DIM. X ± .005	CONTRACT NO.
		DATE DRAWN B. VILLANUEVA 11/3/2023 CHECKED	DATE
		MECHANICAL B. VILLANUEVA 11/3/2023	DATE
		ELECTRICAL	DATE
		OPERATIONS B. BLACH	DATE
		APPROVED G. COLE	DATE
SIZE	CAGE CODE	DRAWING NO.	
B	0A0B7	10-52010 braze fixture	
SCALE: NONE	UNIT WT.	REV	SHEET 1 OF 4



NEXT ASSY USED ON APPLICATION

THIRD ANGLE PROJECTION



DRAWING NO. 10-52010 braze fixture

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

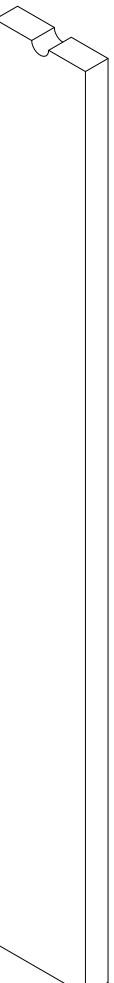
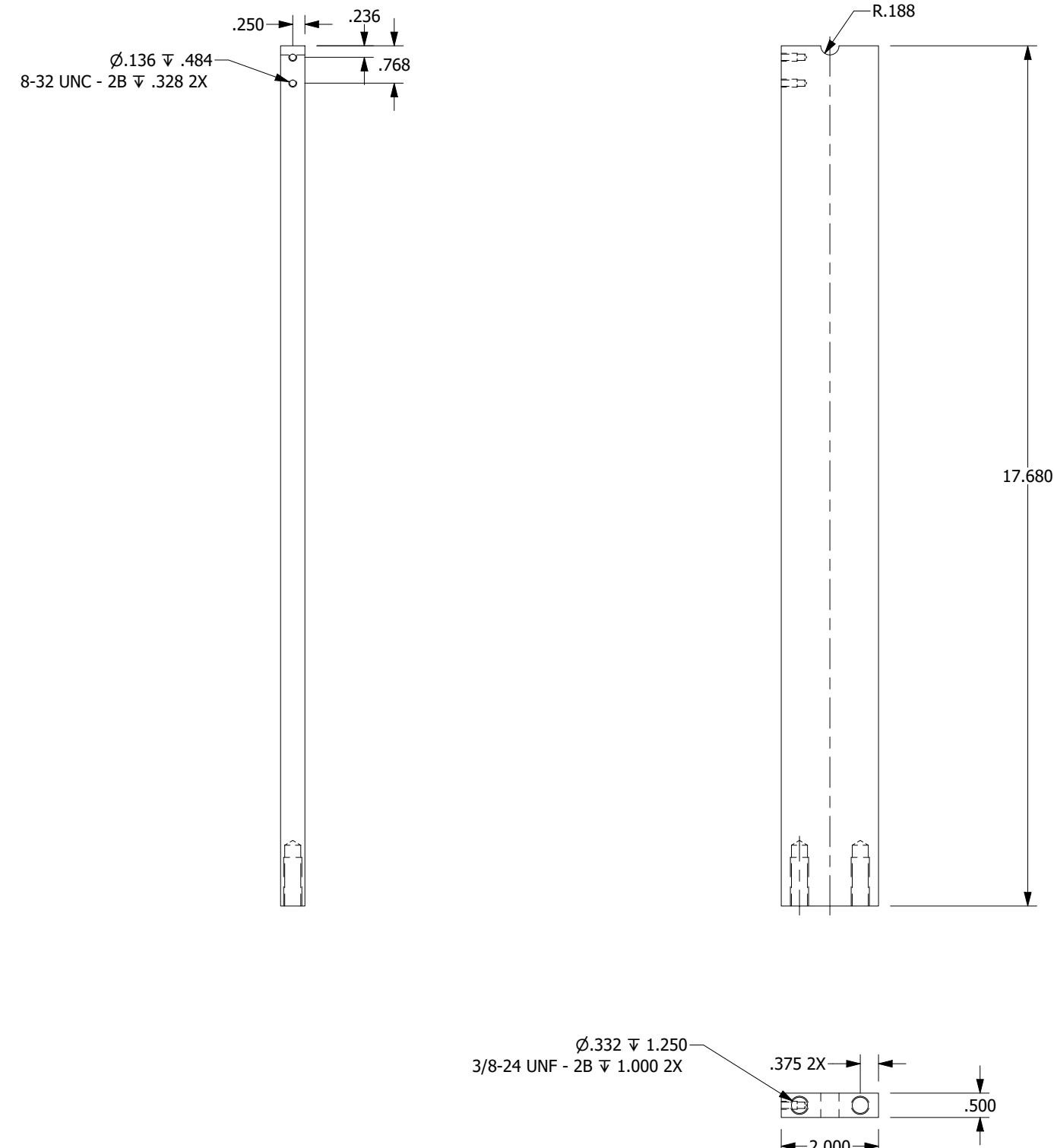
D

C

C

A

A



DRAWING NO. 10-52010 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 8
PART NO. 52010-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52010 braze fixture
SCALE: NONE		REV SHEET 2 OF 4

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

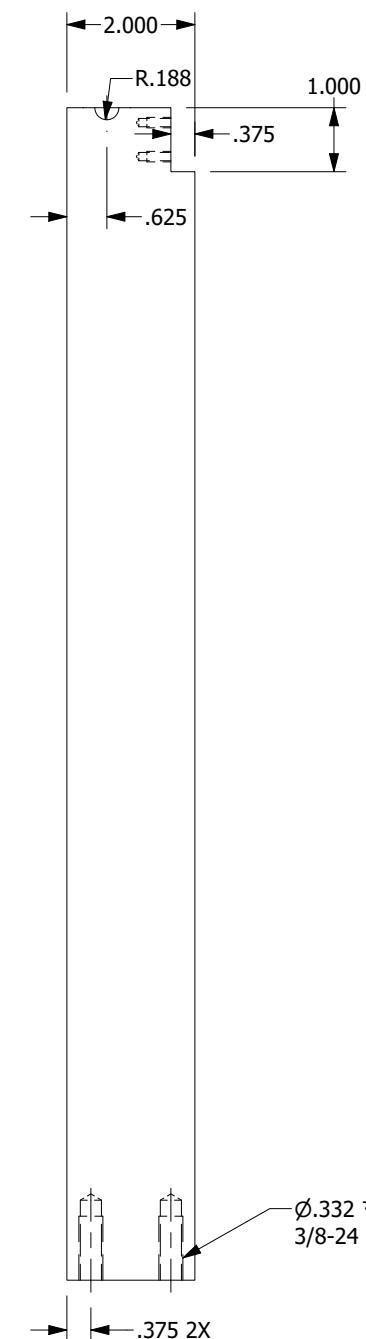
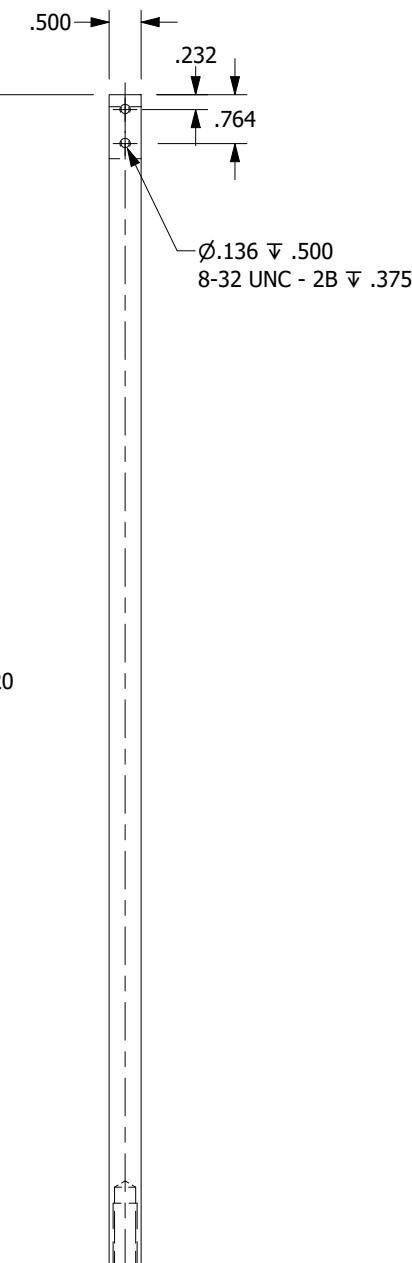
C

C

A

A

18.320



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52010-1-02

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52010 braze fixture
SCALE: NONE	REV	SHEET 3 OF 4

DRAWING NO. 10-52010 braze fixture

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR,

D

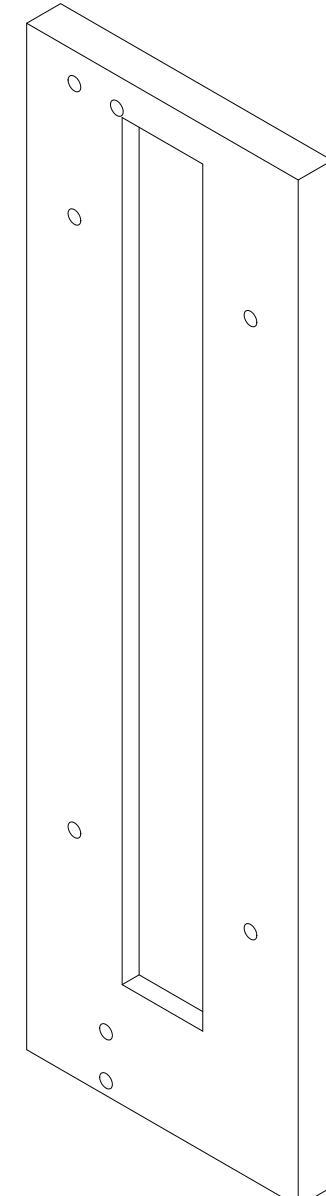
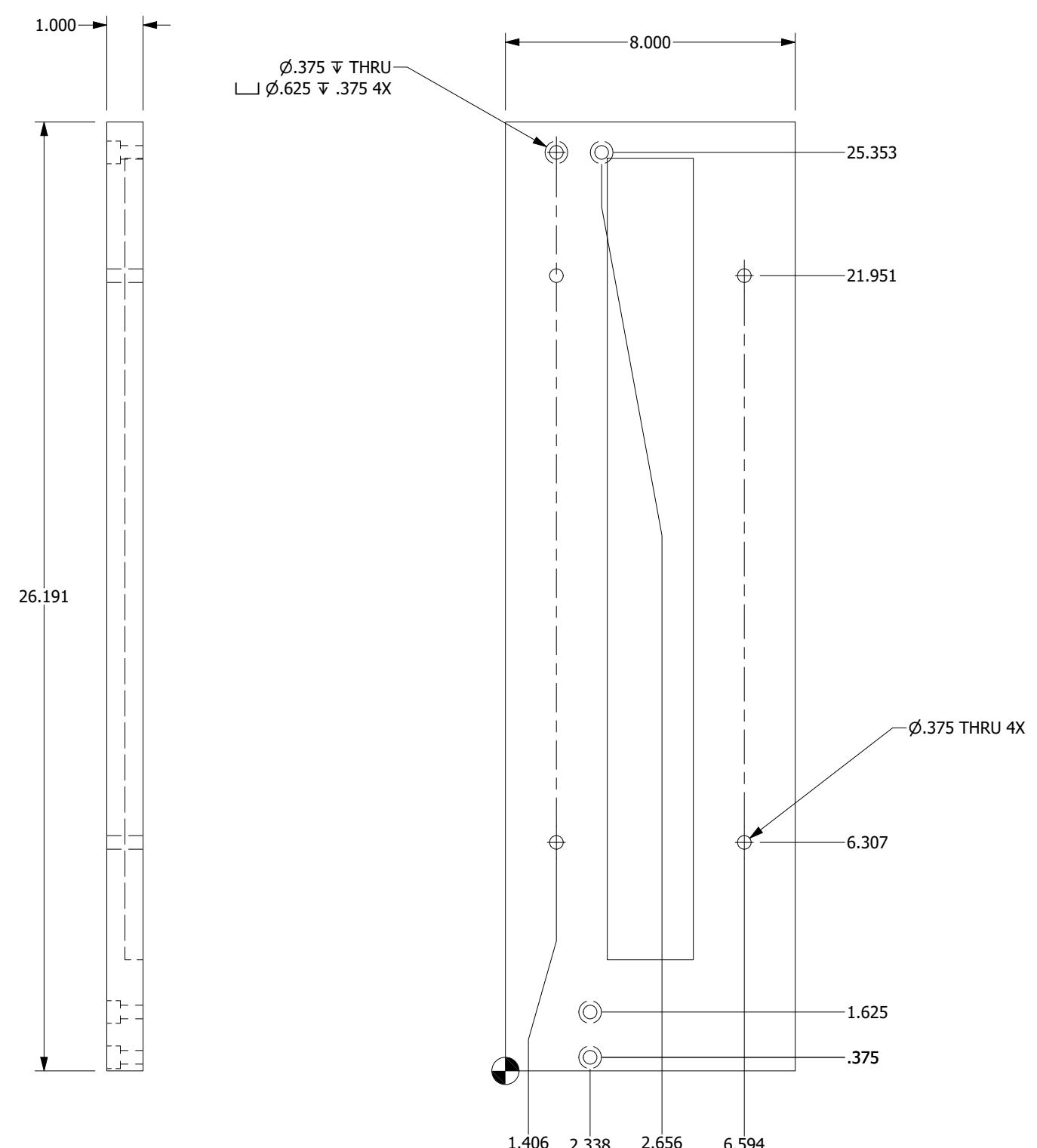
D

C

C

A

A



DRAWING NO. 10-52010 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52010-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52010 braze fixture
SCALE: NONE		REV SHEET 4 OF 4

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

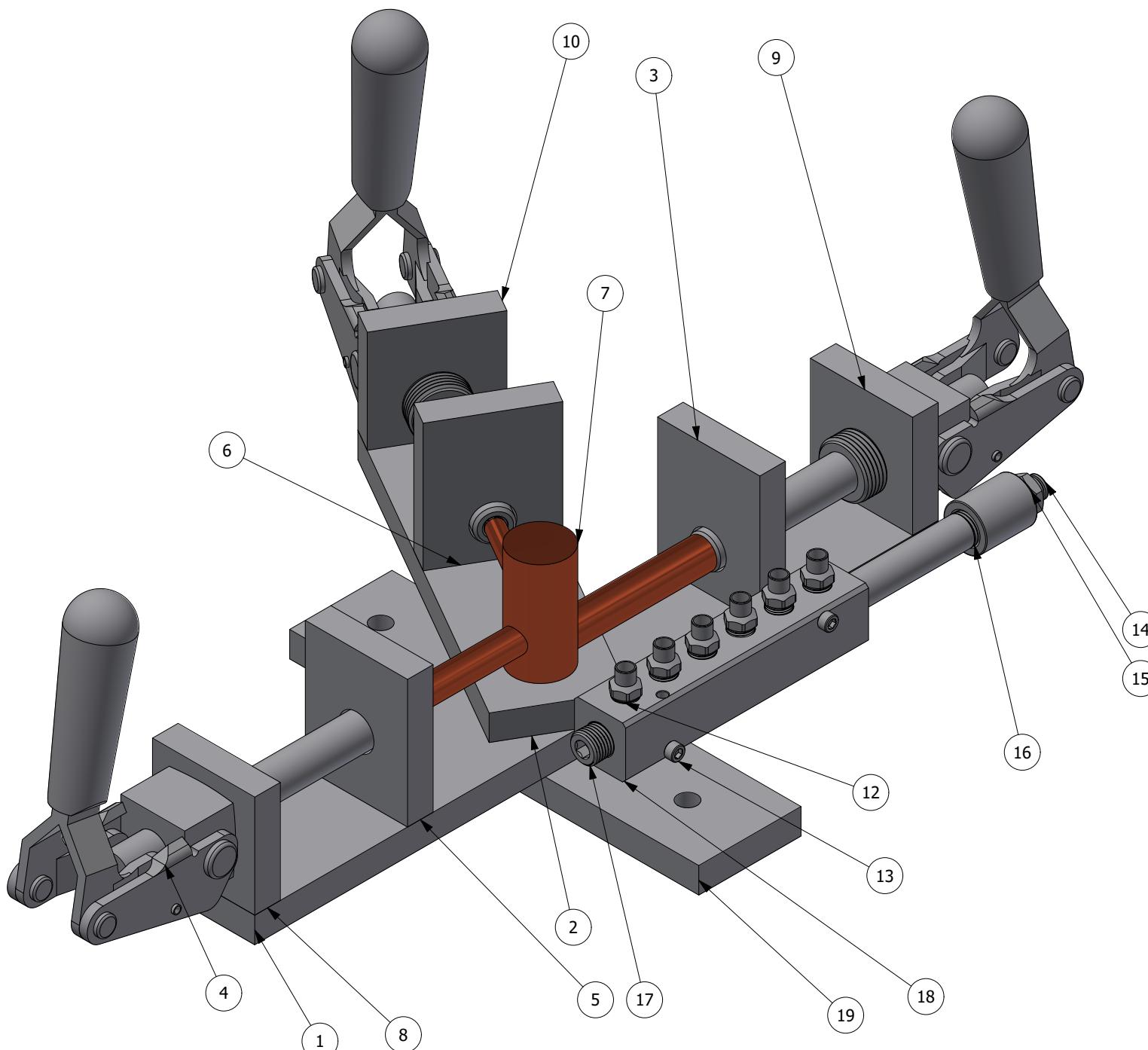
1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
PARTS LIST				

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
ANGLES X ± 1°
1 PLACE DIM. X ± .1
2 PLACE DIM. X ± .01
3 PLACE DIM. X ± .005

CONTRACT NO.
DATE
DRAWN B. VILLANUEVA 10/21/2023
CHECKED
MECHANICAL B. VILLANUEVA 10/21/2023
ELECTRICAL
OPERATIONS B. BLACH
APPROVED G. COLE

Solutions Through Advanced Technology
MAINSTREAM
ENGINEERING

QUALITY SYMBOLS
◆ DENOTES CRITICAL INSPECTION
NEXT ASSY USED ON APPLICATION
THIRD ANGLE PROJECTION

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE	UNIT WT.	REV SHEET 1 OF 10

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"

D

D

C

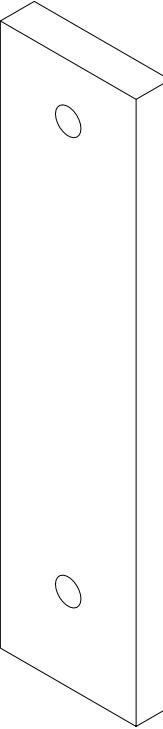
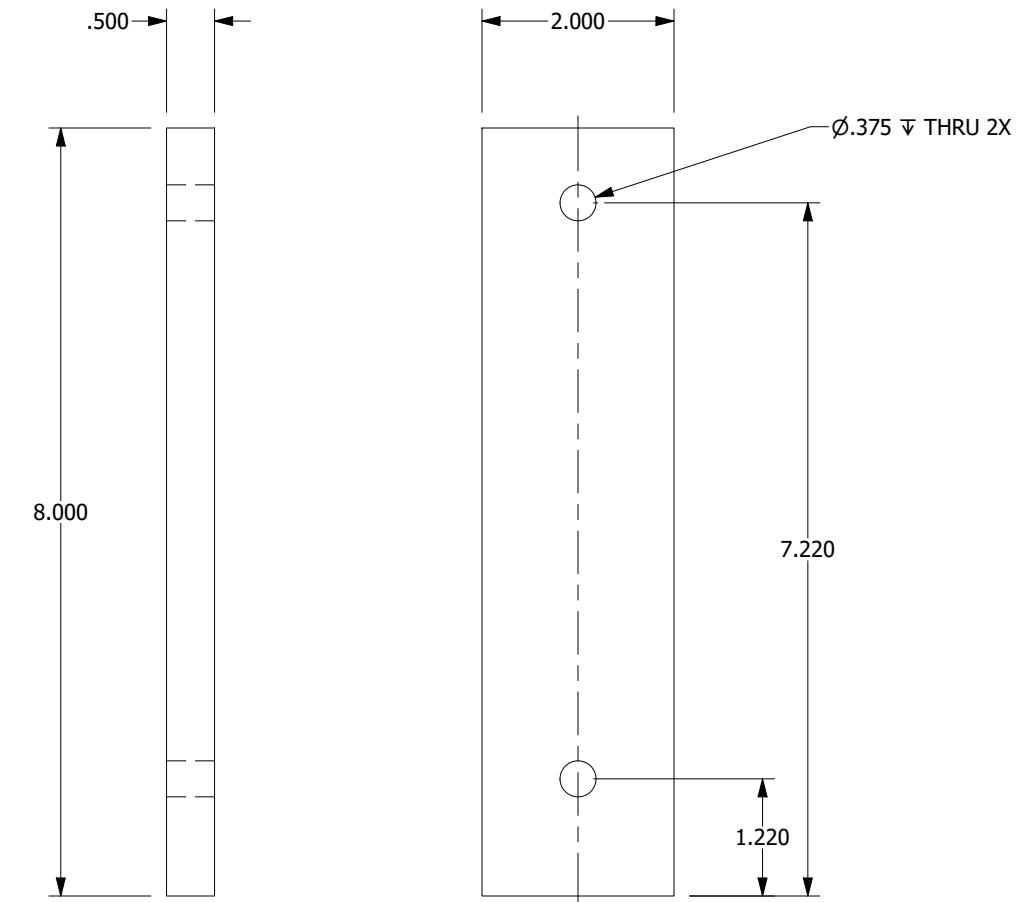
C

B

B

A

A



DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 19
PART NO. 52028-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 2 OF 10

8

7

6

5

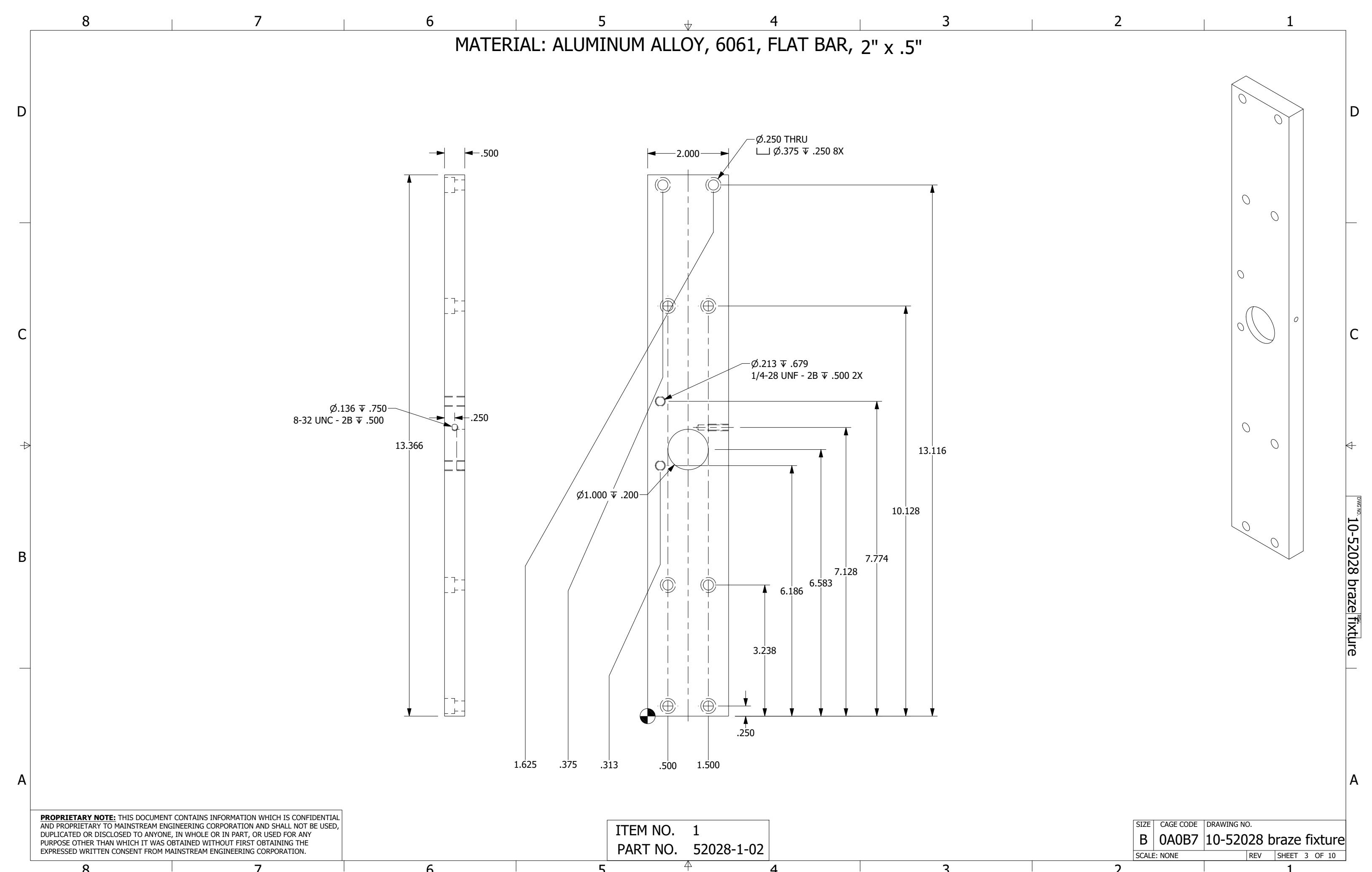
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52028-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
CALE: NONE		REV
		SHEET 3 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"

D

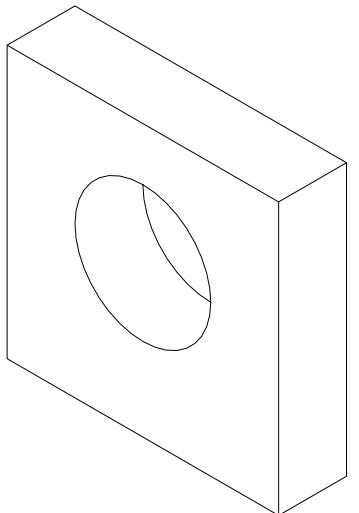
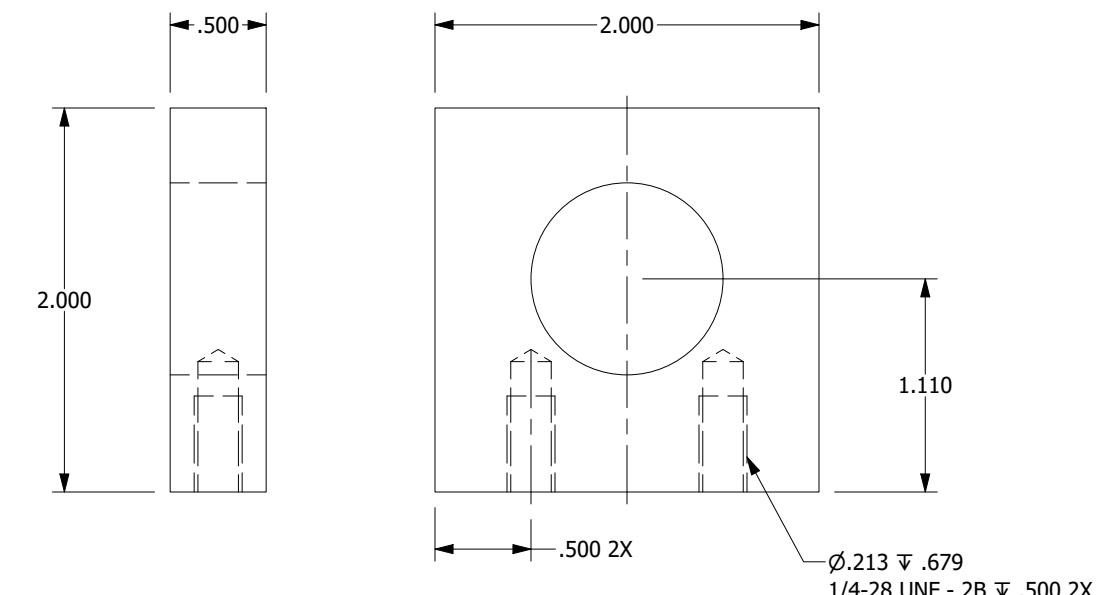
D

C

C

A

A



DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 8
PART NO. 52028-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 4 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

C

4

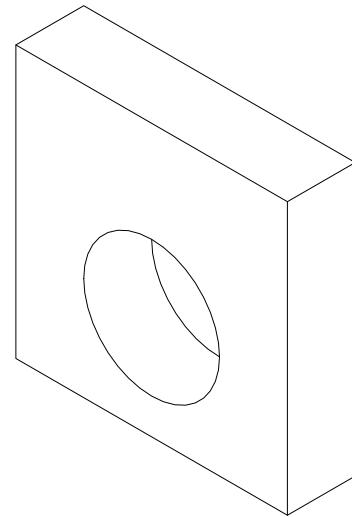
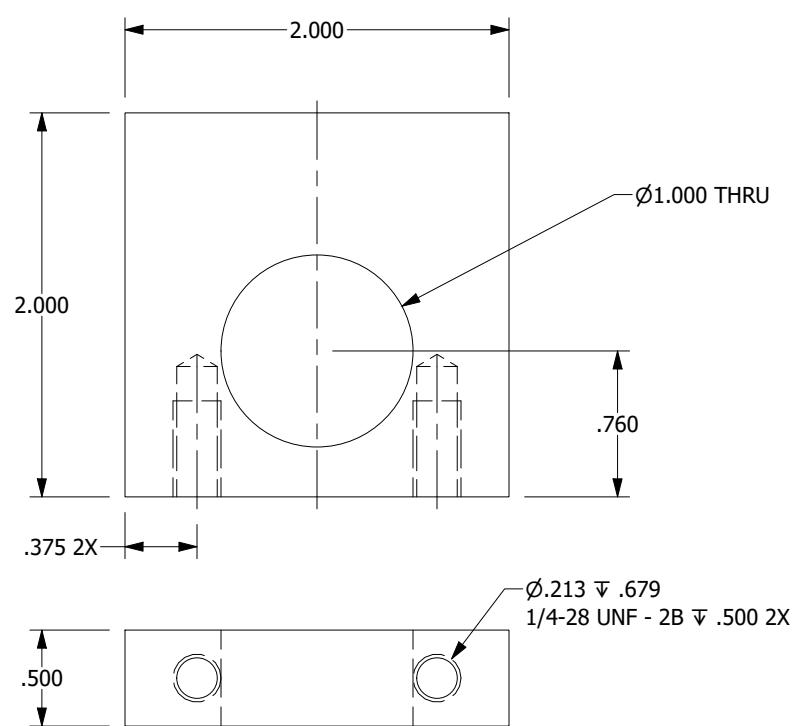
4

B

B

A

A



DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 9
PART NO. 52028-1-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 5 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

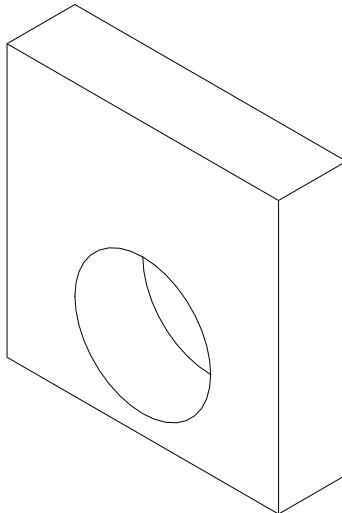
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



D

D

C

C

4

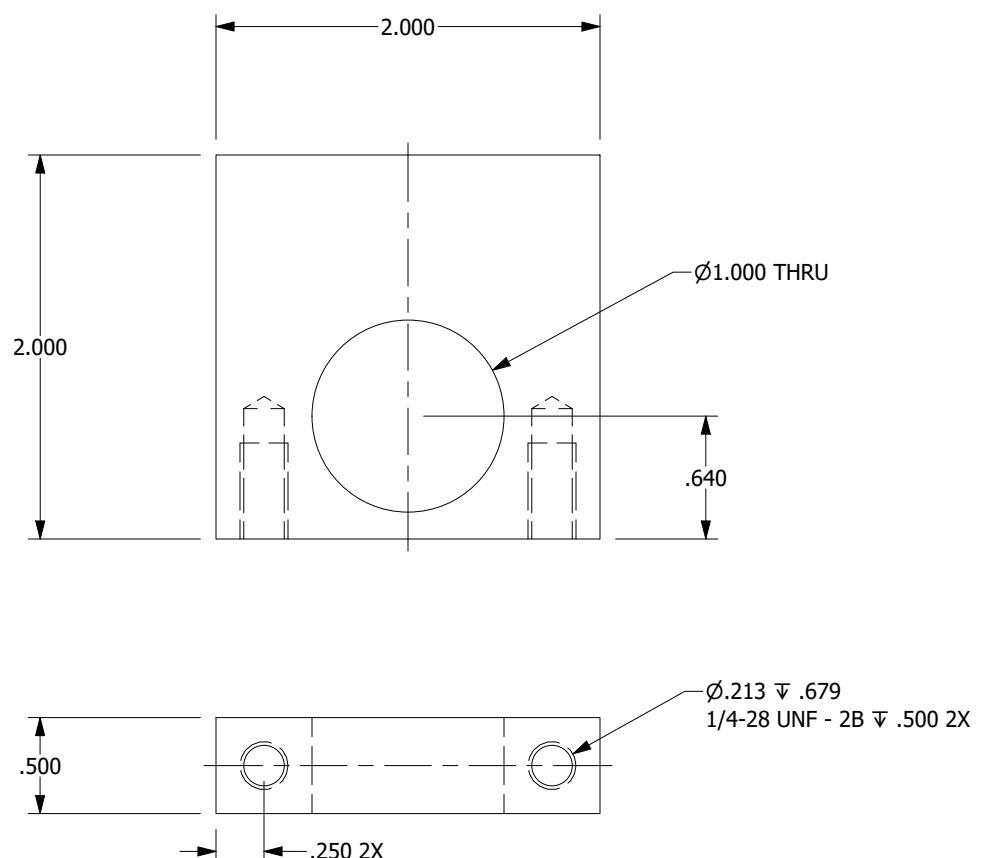
4

B

B

A

A



DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52028-1-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 6 OF 10

8

7

6

5

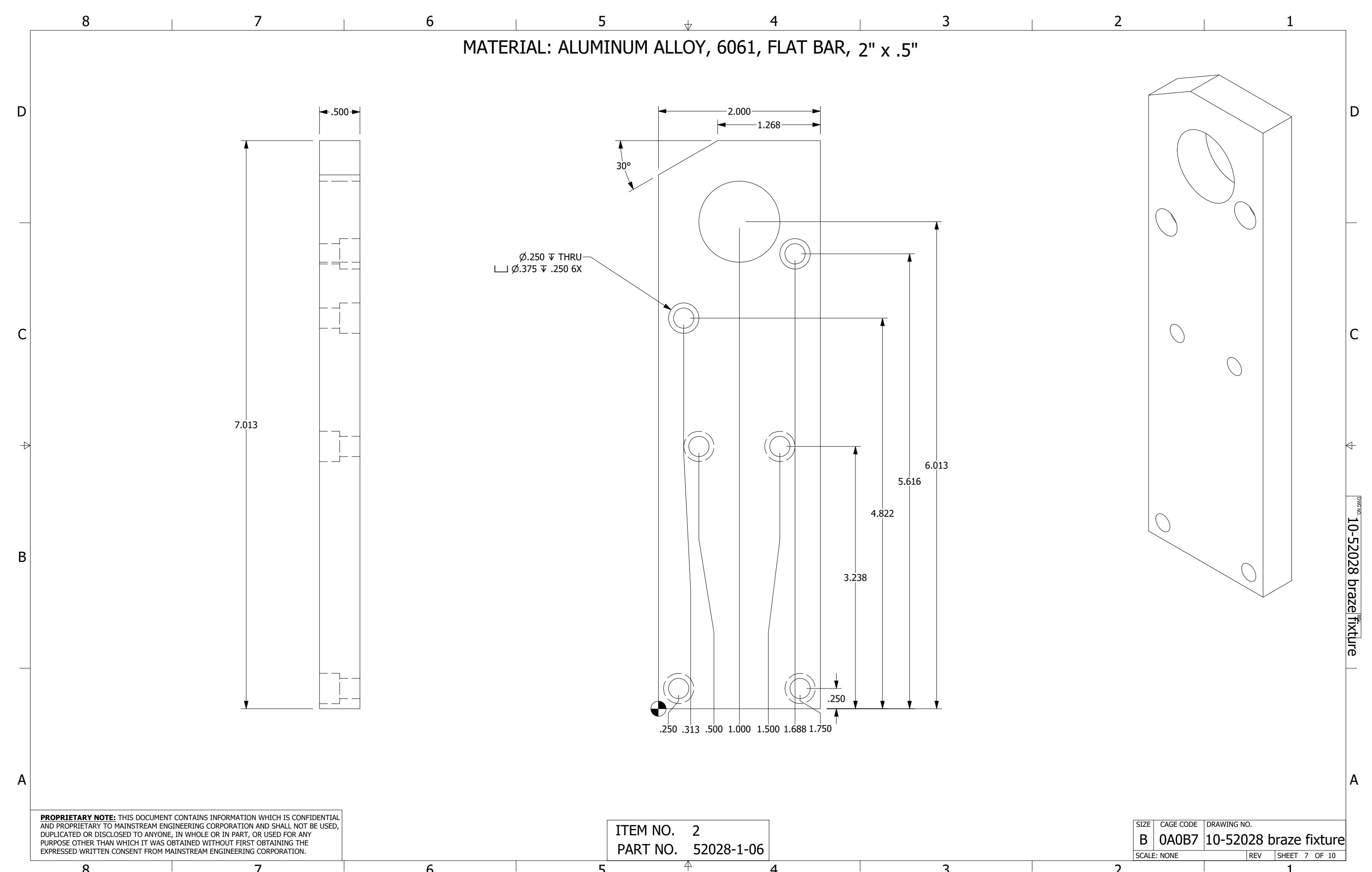
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52028-1-06

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV
		SHEET 7 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"

D

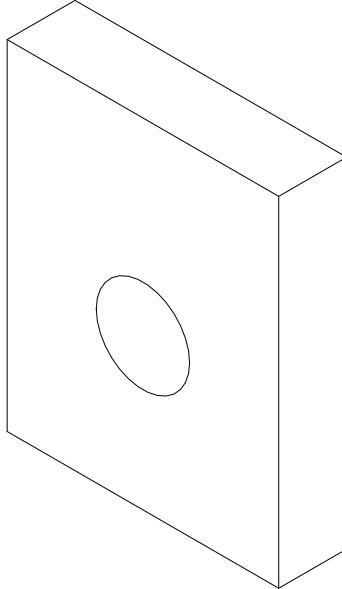
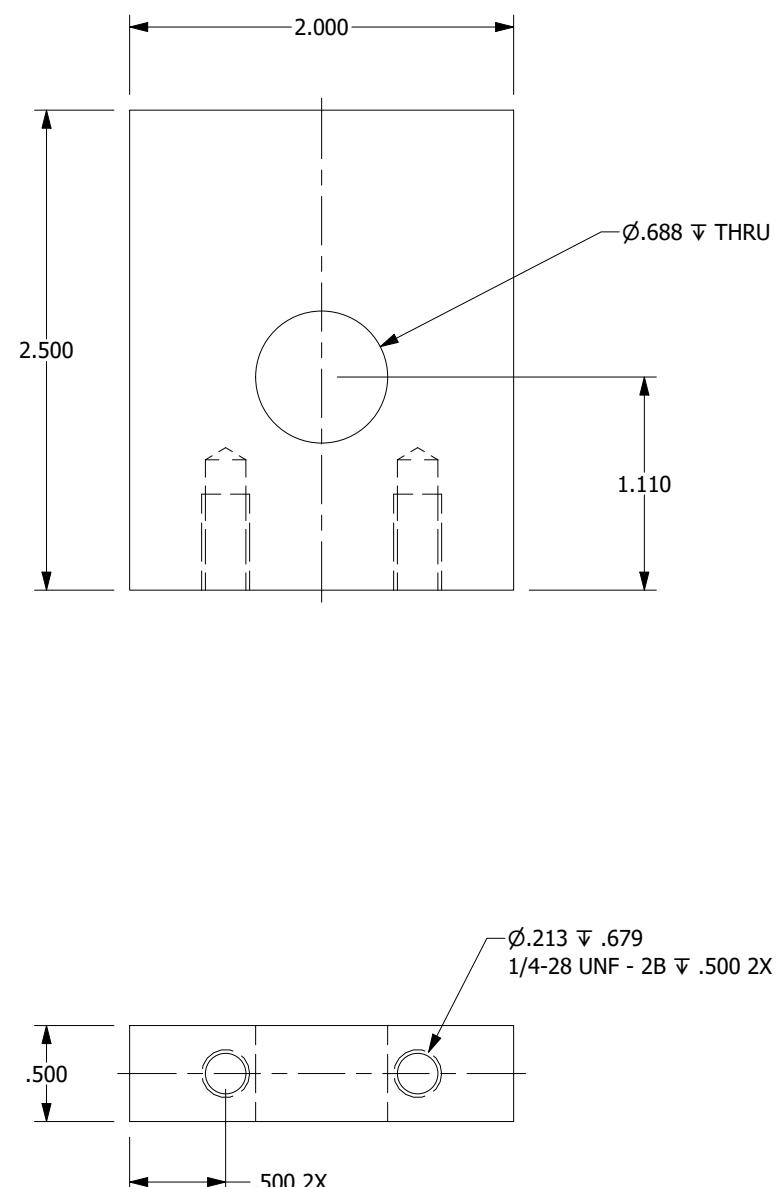
D

C

C

A

A



DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52028-1-07

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 8 OF 10

8

7

6

5

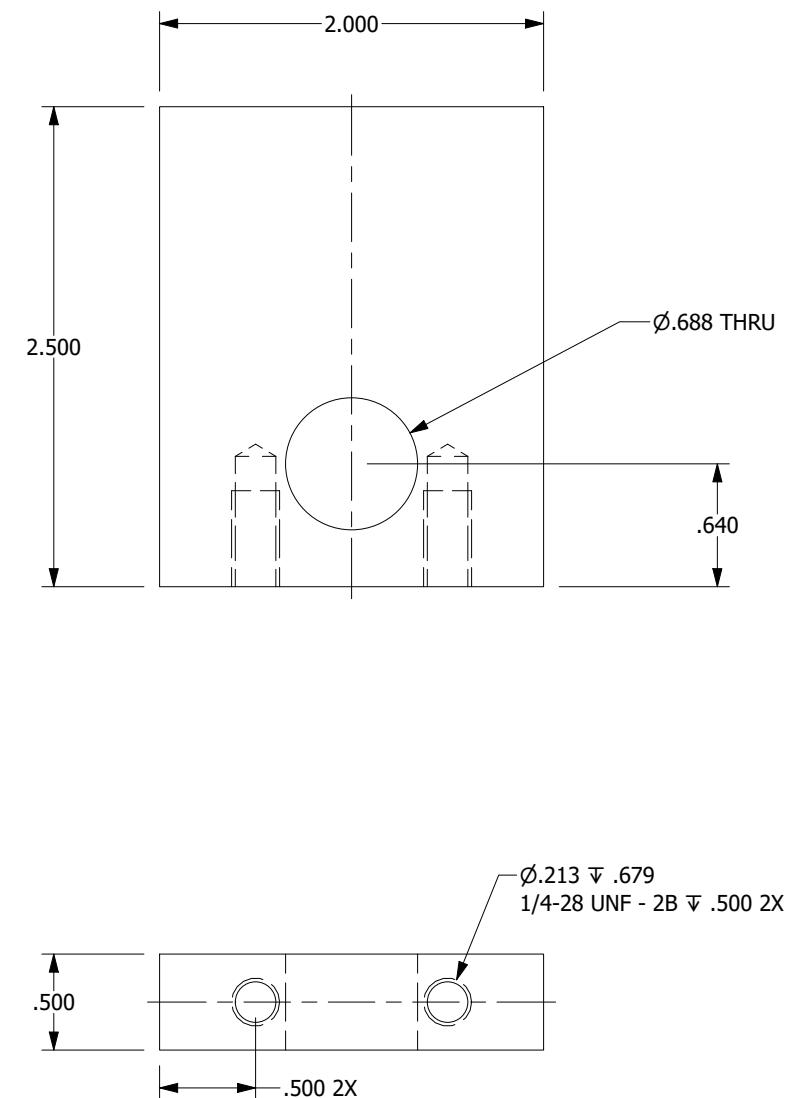
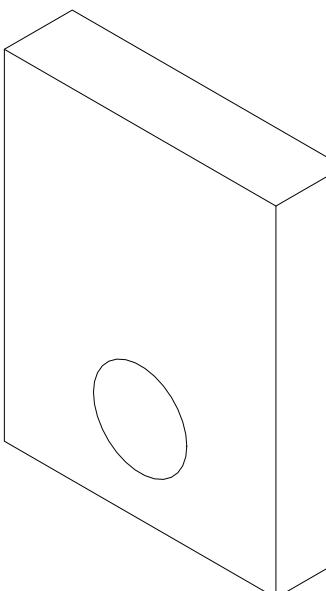
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



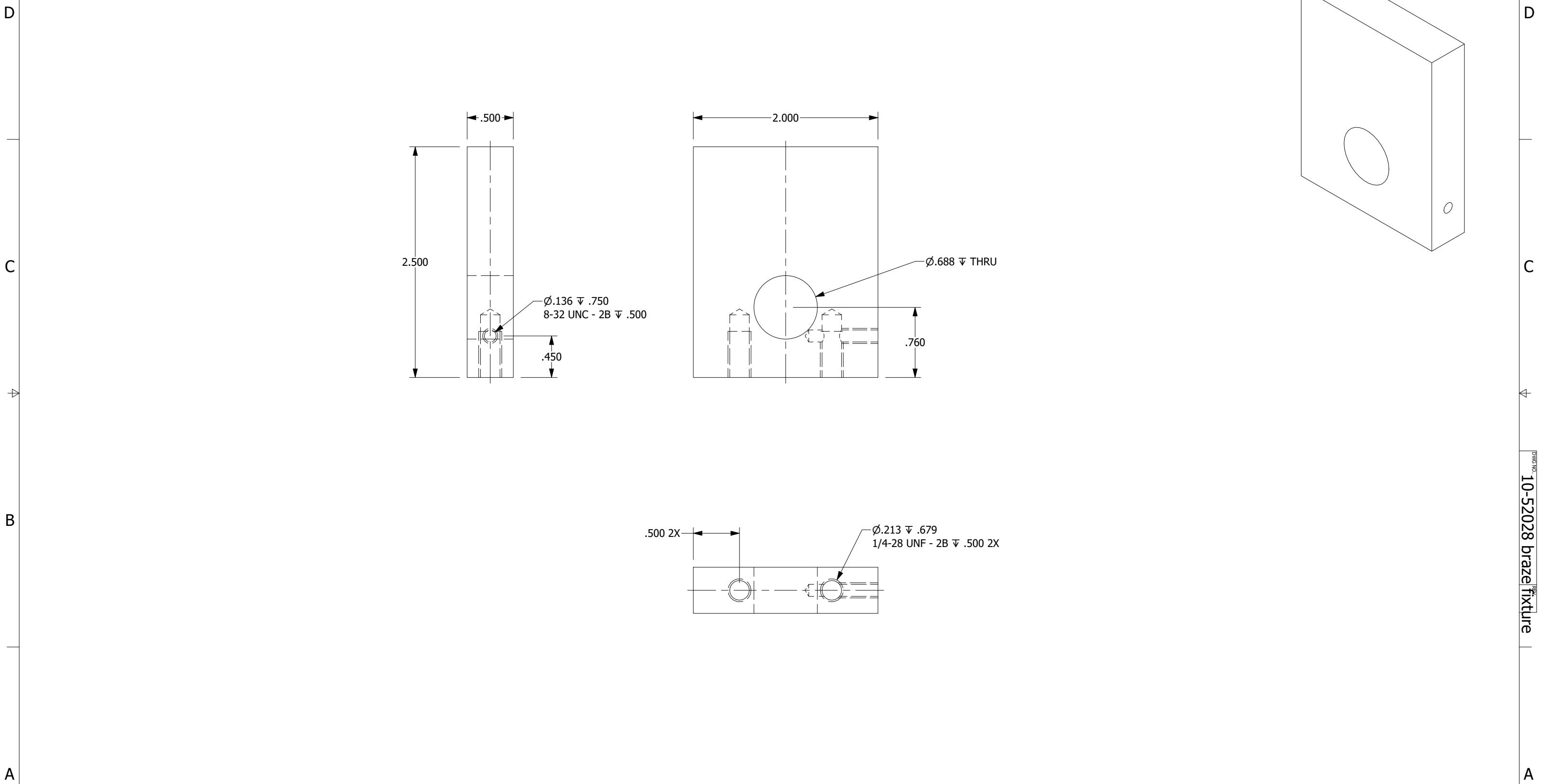
DRAWING NO. 10-52028 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52028-1-08

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 9 OF 10

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52028-1-09

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52028 braze fixture
SCALE: NONE		REV SHEET 10 OF 10

8

7

6

5

4

3

2

1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

D

D

C

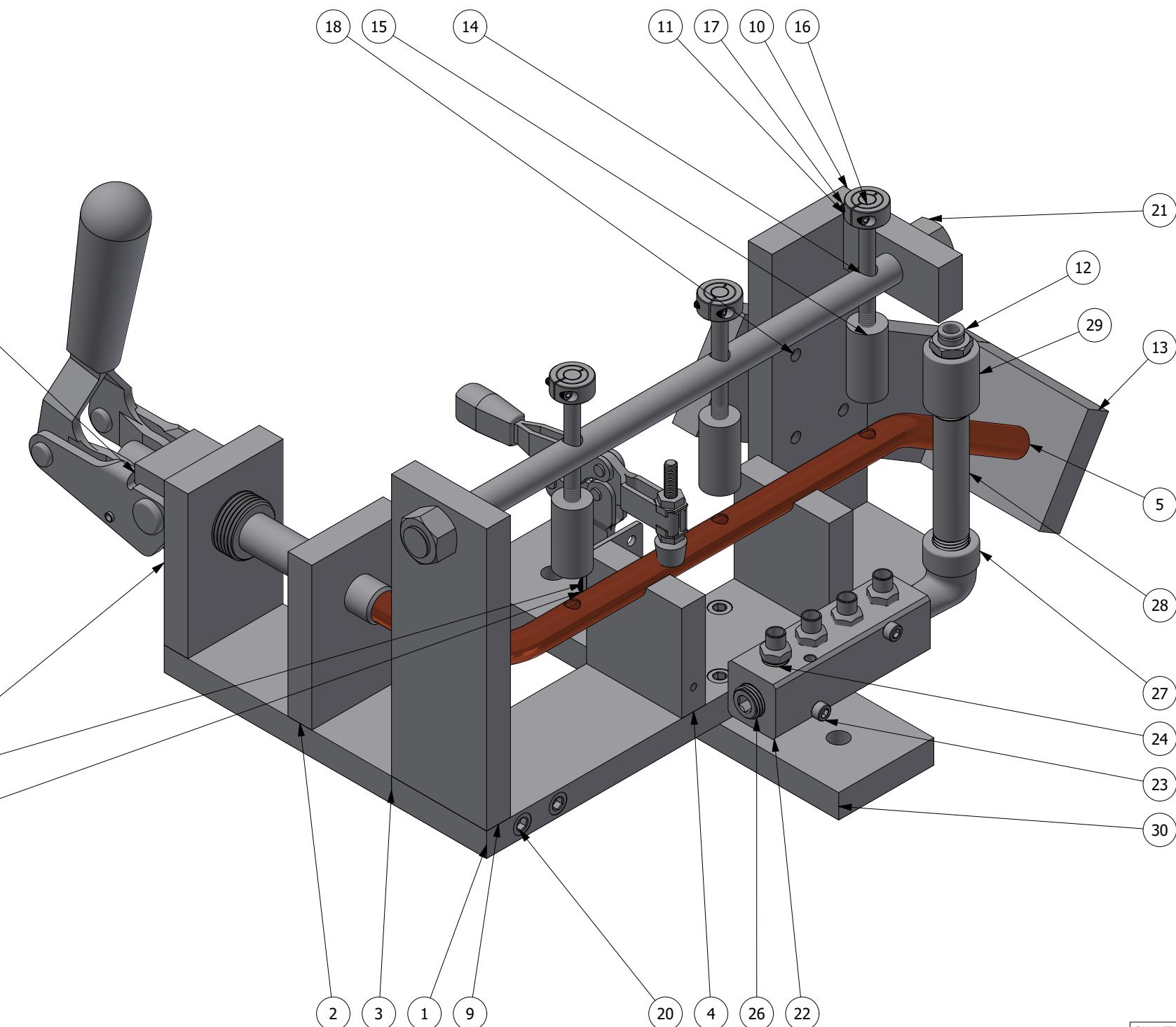
C

B

B

A

A



DRAWING NO. 10-52301 braze fixture

30	52301-1-03	1	base adapter
29	4464K352	1	304 Stainless Steel Threaded Pipe Fitting
28	44615K452	1	Standard-Wall Steel Pipe Nipple
27	4452K472	1	316 Stainless Steel Threaded Pipe Fitting
26	44605K232	1	Low-Pressure Pipe Fitting
25	51235K108	1	Push-to-Connect Tube Fitting with Universal Thread
24	5520K172	4	Solder-Connect Fitting for Copper Tubing
23	90128A201	2	Zinc-Plated Alloy Steel Socket Head Screw
22	5469K121	1	Anodized Aluminum Right-Angle Flow Manifold
21	98797A523	2	Medium-Strength Steel Hex Nuts - Grade 5
20	91251A451	2	Black-Oxide Alloy Steel Socket Head Screw
19	90128A940	2	Zinc-Plated Alloy Steel Socket Head Screw
18	90128A363	23	Zinc-Plated Alloy Steel Socket Head Screw
17	6435K12	3	Clamping Shaft Collar
16	52301-1-14	3	valve drop
15	52301-1-12	3	valve holder
14	52301-1-13	1	valve drop bar
13	52301-1-01	1	fitting holder
12	52301-1-02	1	angle extension
11	52301-1-07	1	valve drop holder
10	52301-1-06	1	side riser
9	52301-1-08	1	main riser
8	52301-1-05	1	toggle clamp mount
7	5093A64	1	Push Pull Toggle Clamp
6	2423N11	1	Side-Mount Hold-Down Toggle Clamp
5	10-52301 placeholder pipe	1	Copper tube, .500 OD, length including fittings
4	52301-1-09	2	pipe holder
3	52301-1-11	1	side base plate
2	52301-1-10	1	pipe locator
1	52301-1-04	1	main base

ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
------	-------------	-----	-----------------------------	---------------

PARTS LIST

		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	CONTRACT NO.
TOLERANCES:			
ANGLES	X ± 1°		
1 PLACE DIM.	X ± .1	DRAWN B. VILLANUEVA	DATE 10/21/2023
2 PLACE DIM.	X ± .01	CHECKED	
3 PLACE DIM.	X ± .005		
		MECHANICAL B. VILLANUEVA	DATE 10/21/2023
		ELECTRICAL	
		OPERATIONS B. BLACH	
		APPROVED G. COLE	
QUALITY SYMBOLS		THIRD ANGLE PROJECTION	
		NEXT ASSY	SIZE CAGE CODE DRAWING NO.
		USED ON	B 0A0B7 10-52301 braze fixture
		APPLICATION	SCALE: NONE UNIT WT. REV SHEET 1 OF 15

Solutions Through Advanced Technology
MAINSTREAM
 ENGINEERING

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

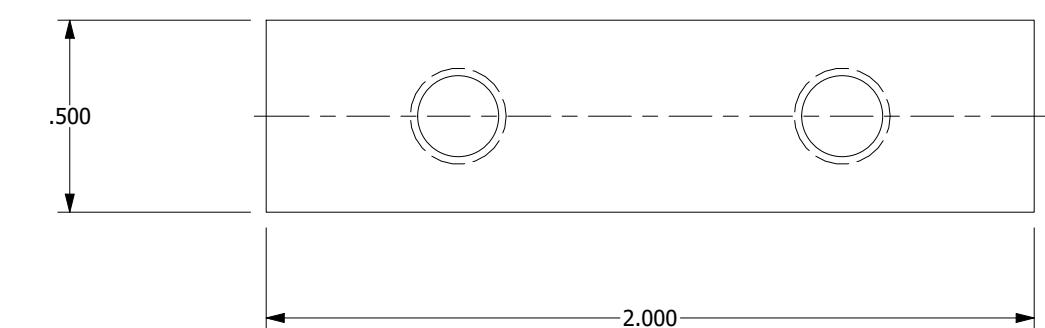
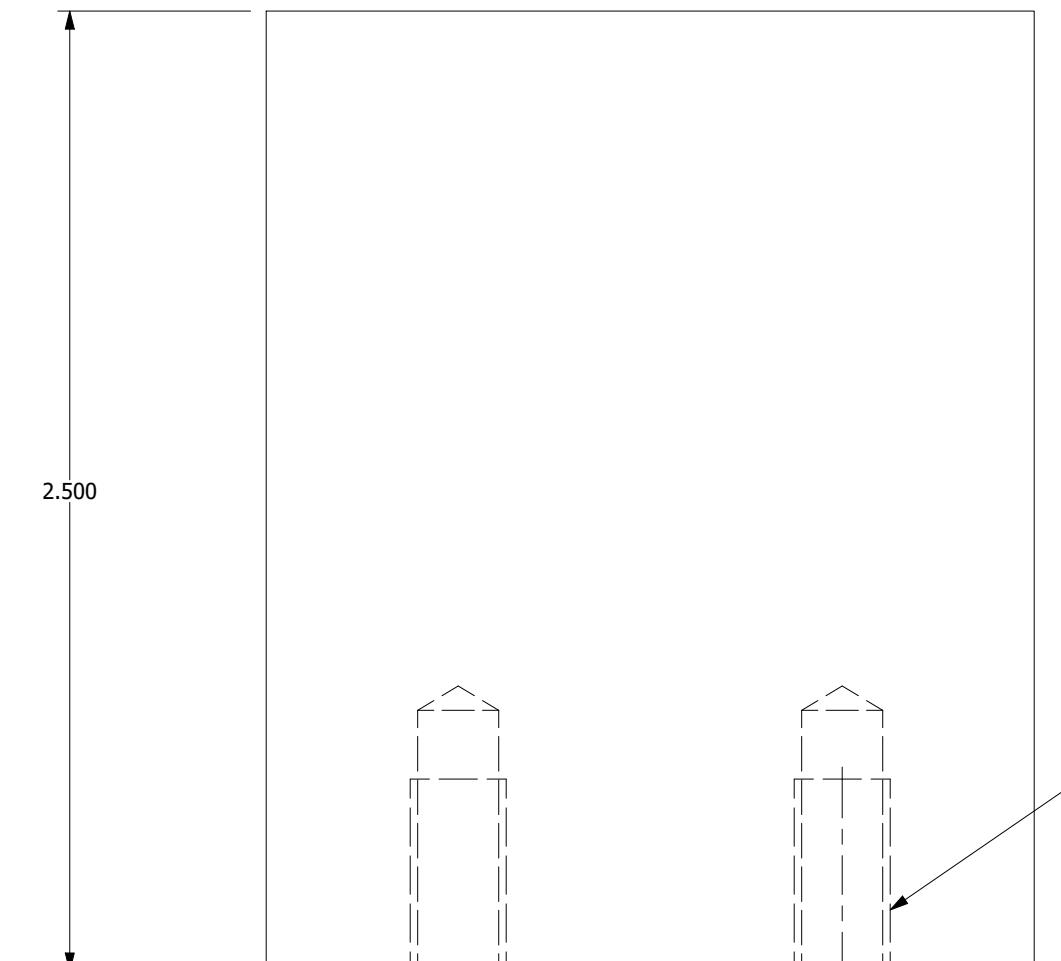
D

C

C

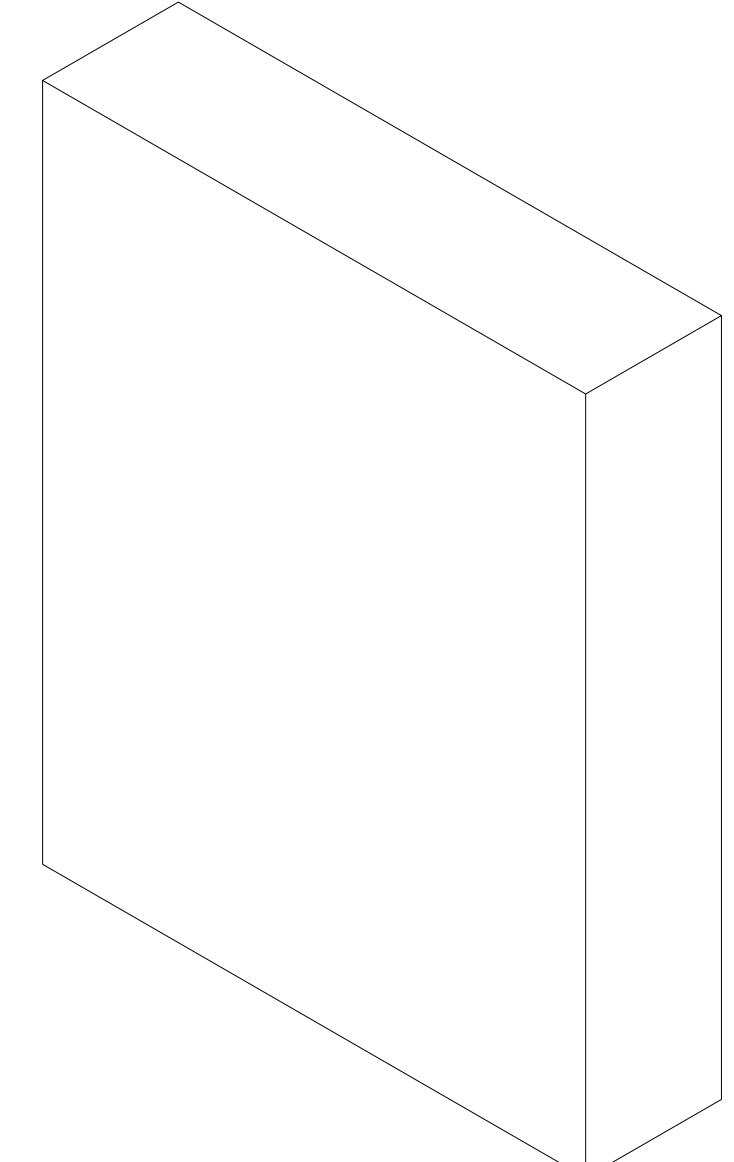
A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 13
PART NO. 52301-1-01



DRAWING NO.
10-52301 braze fixture

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 2 OF 15

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

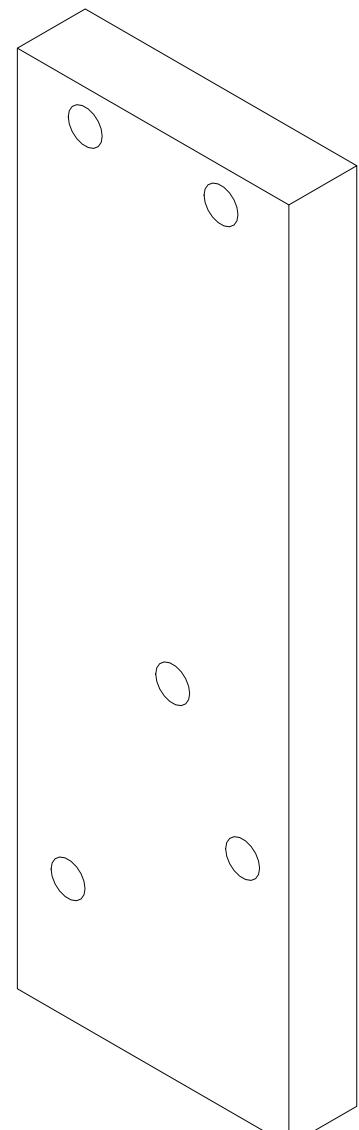
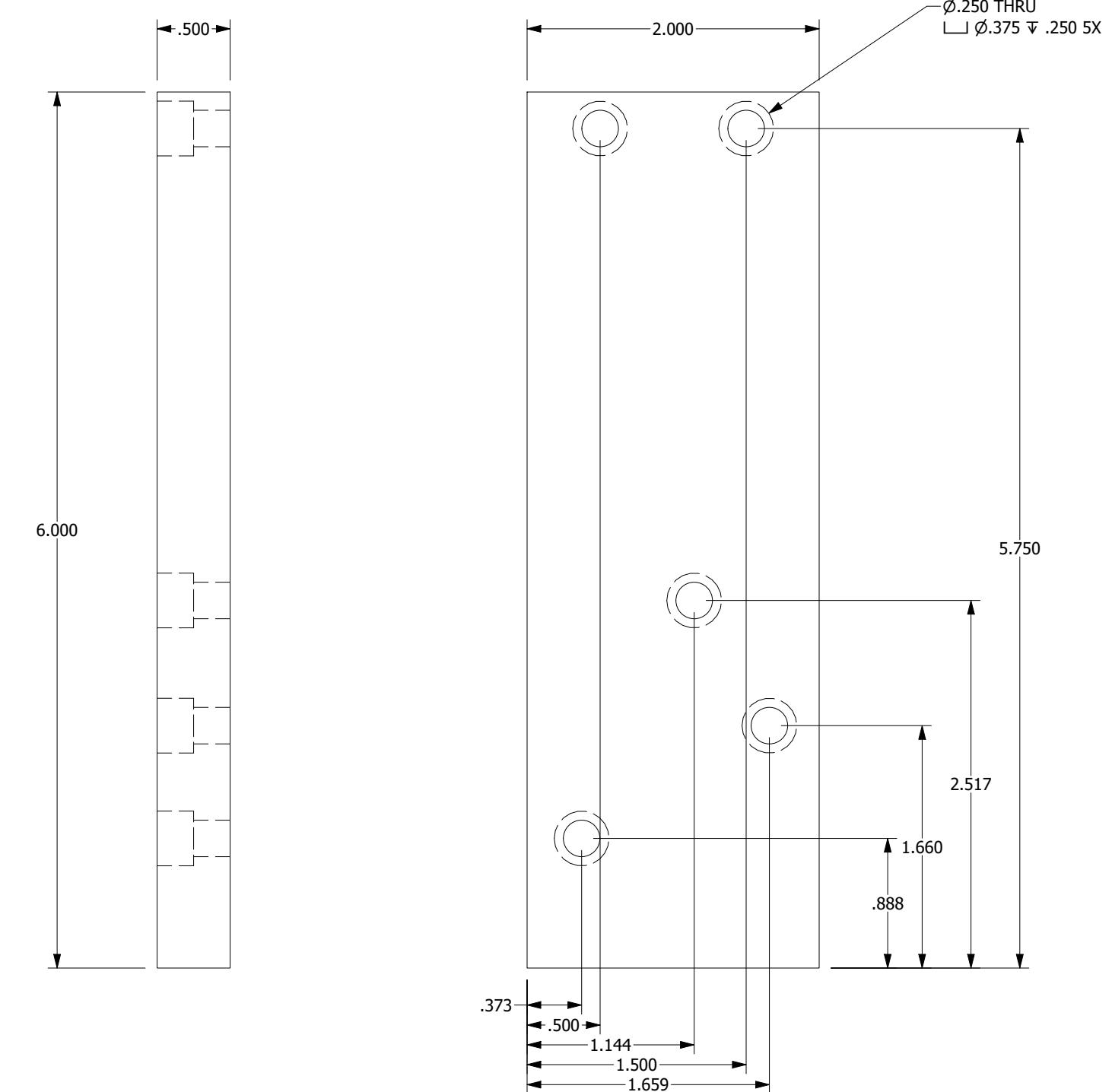
D

C

C

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 12
PART NO. 52301-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 3 OF 15

8

7

6

5

4

3

2

1

8

7

6

5

4

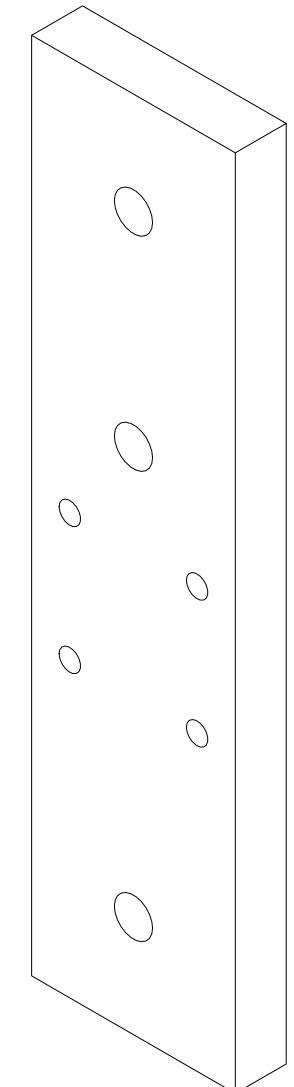
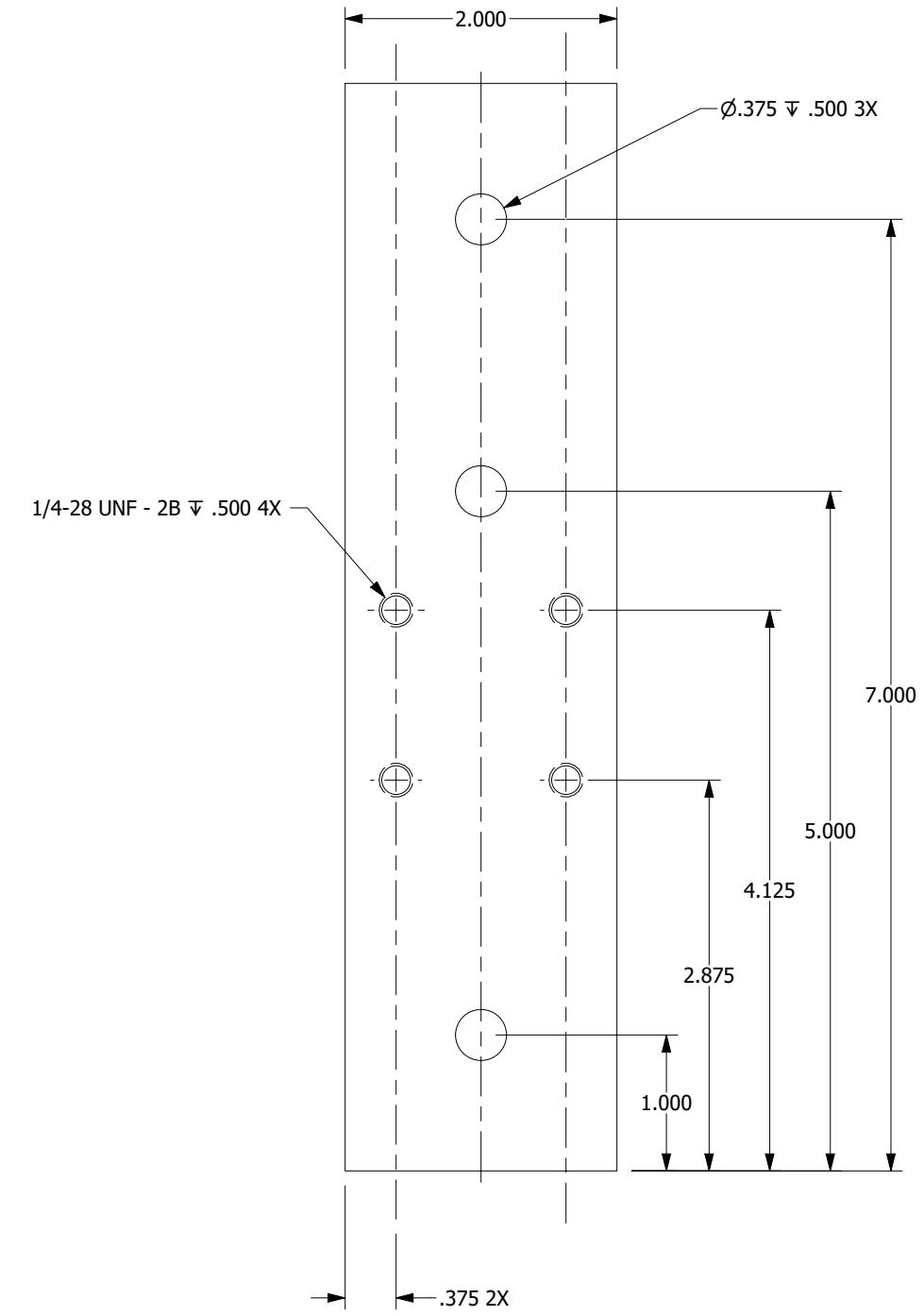
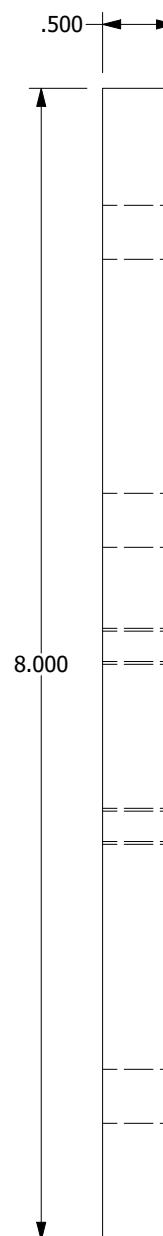
3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D



DRAWING NO. 10-52301 braze fixture

A

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 30
PART NO. 52301-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 4 OF 15

8

7

6

5

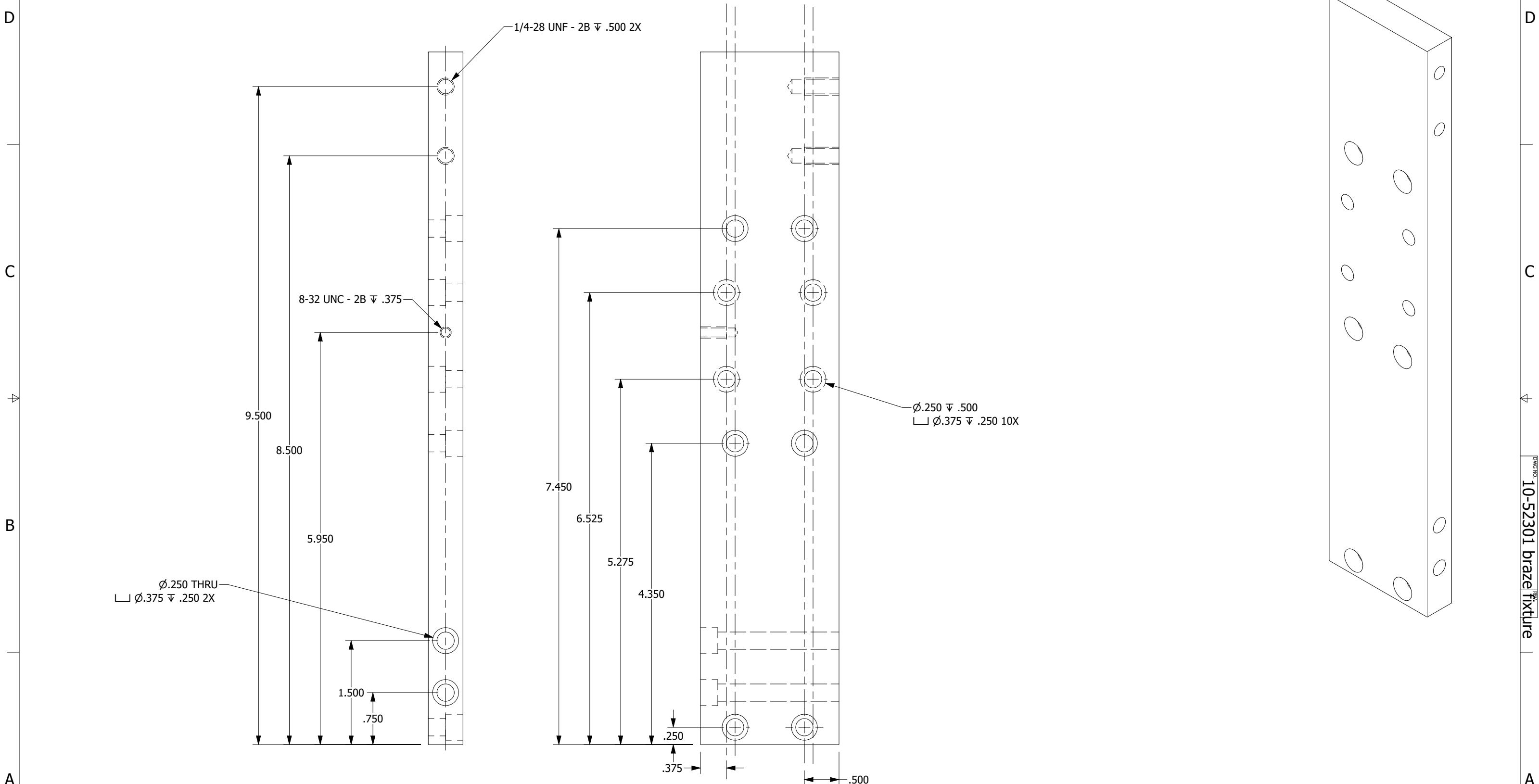
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52301-1-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 5 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

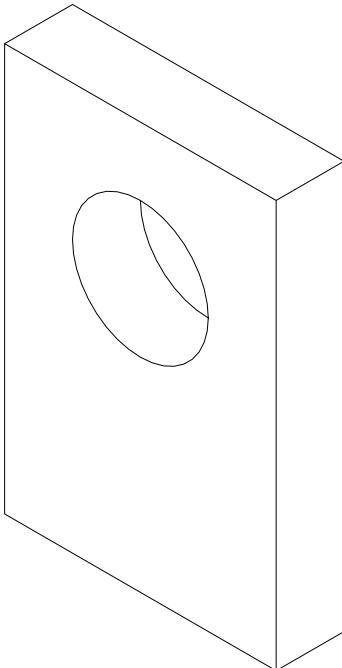
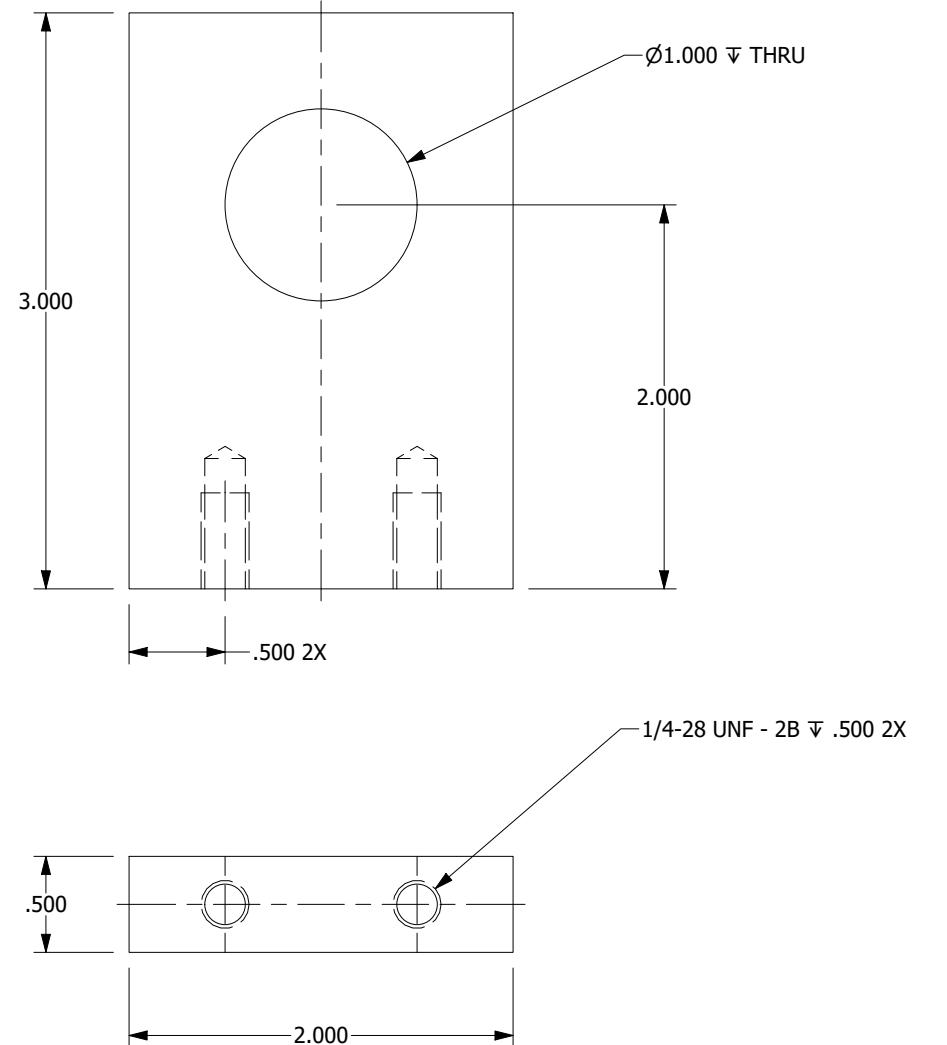
D

C

C

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 8
PART NO. 52301-1-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 6 OF 15

8

7

6

5

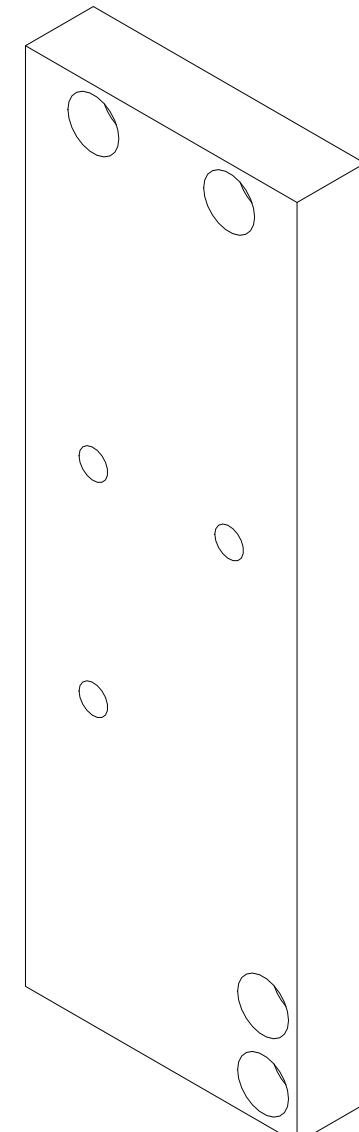
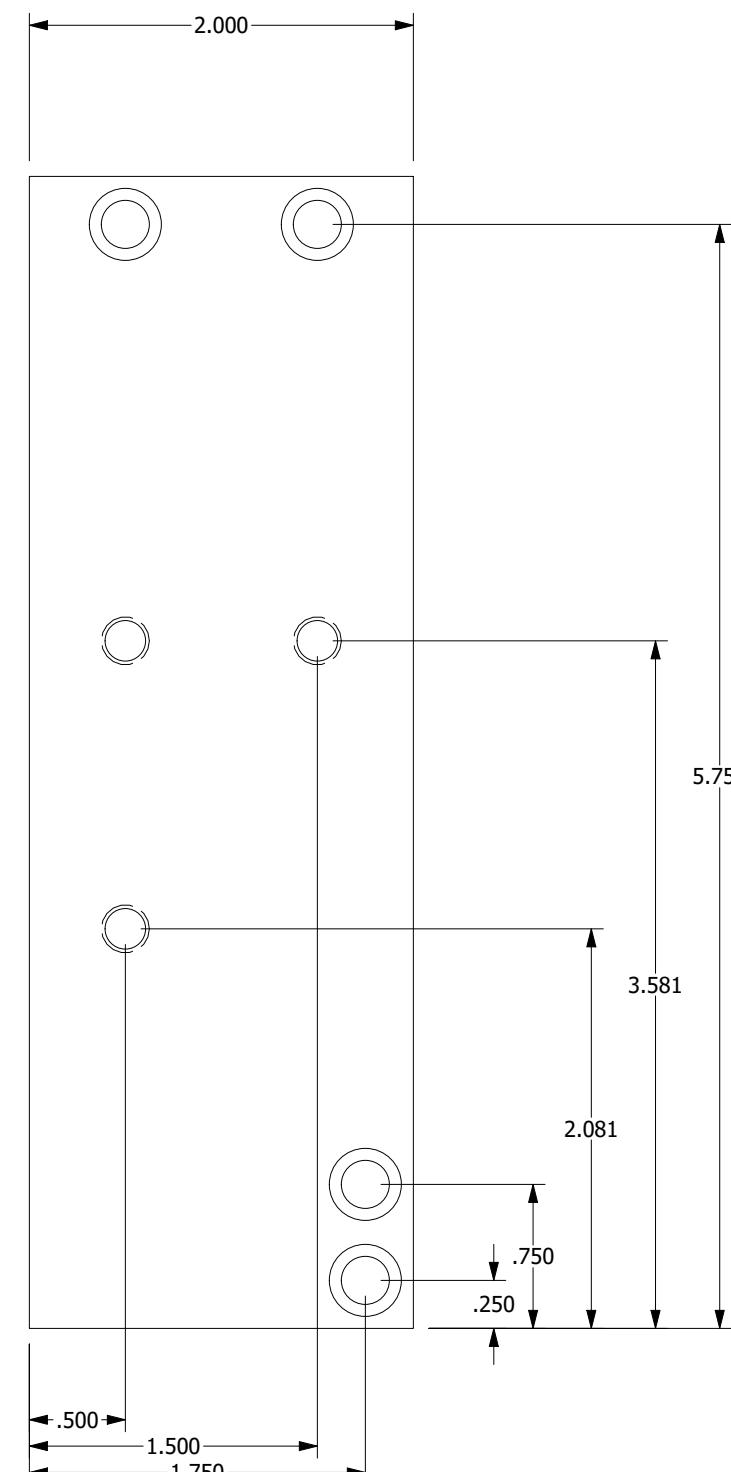
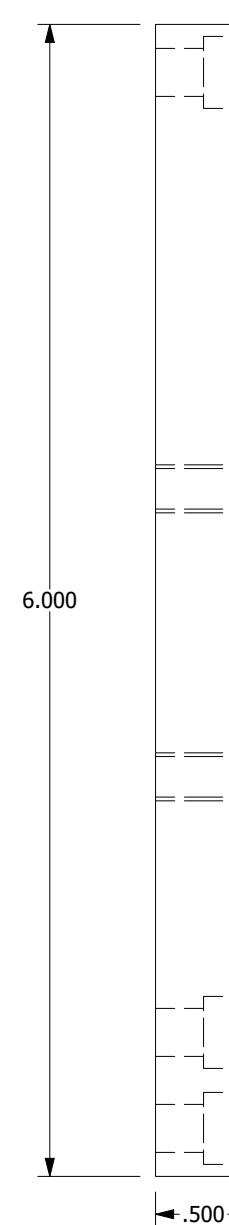
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



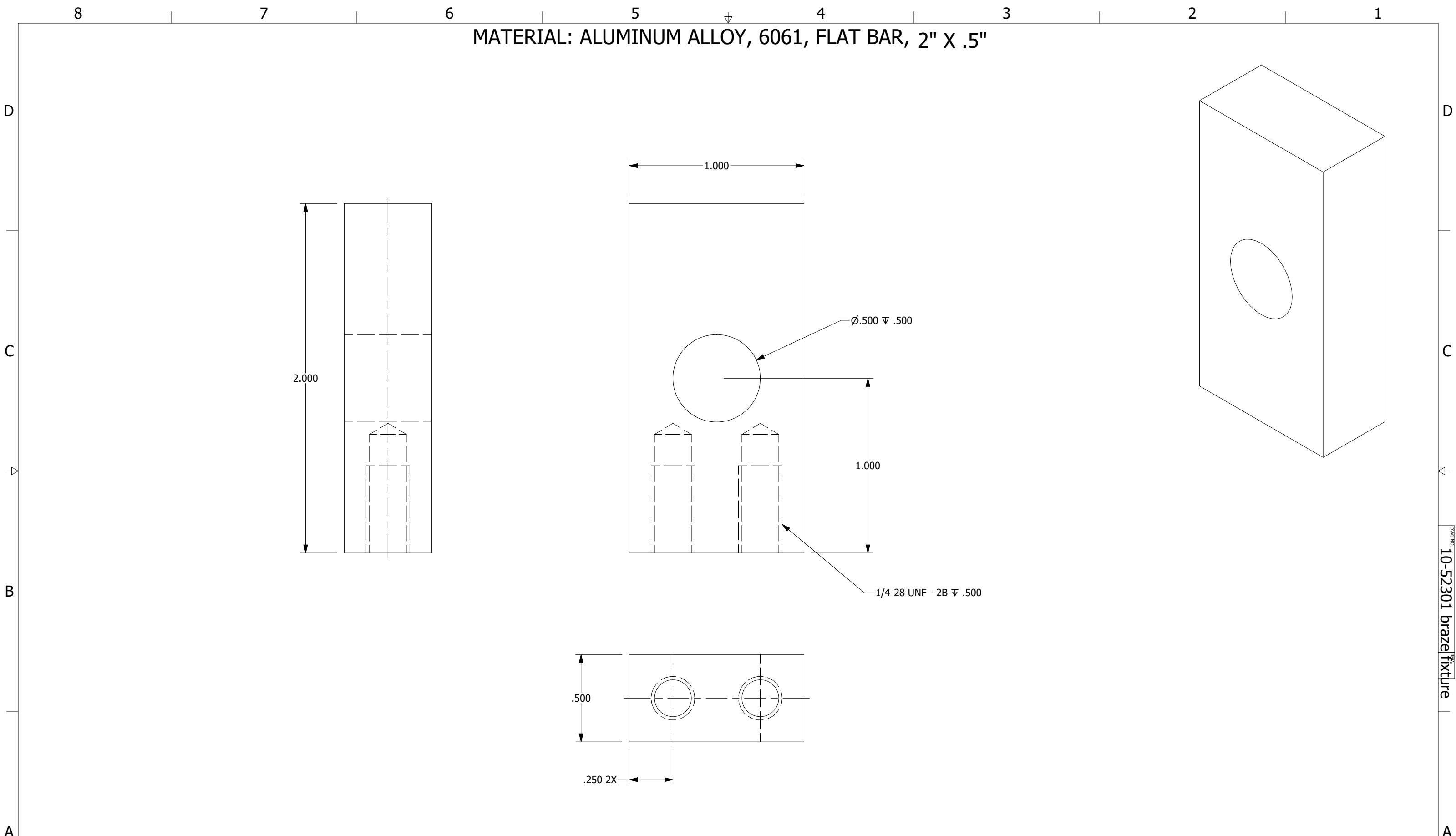
DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52301-1-06

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 7 OF 15

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 11
PART NO. 52301-1-07

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 8 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

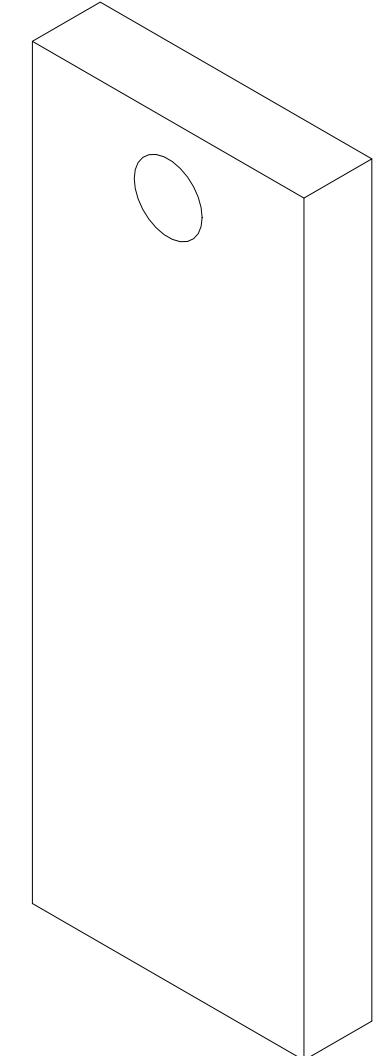
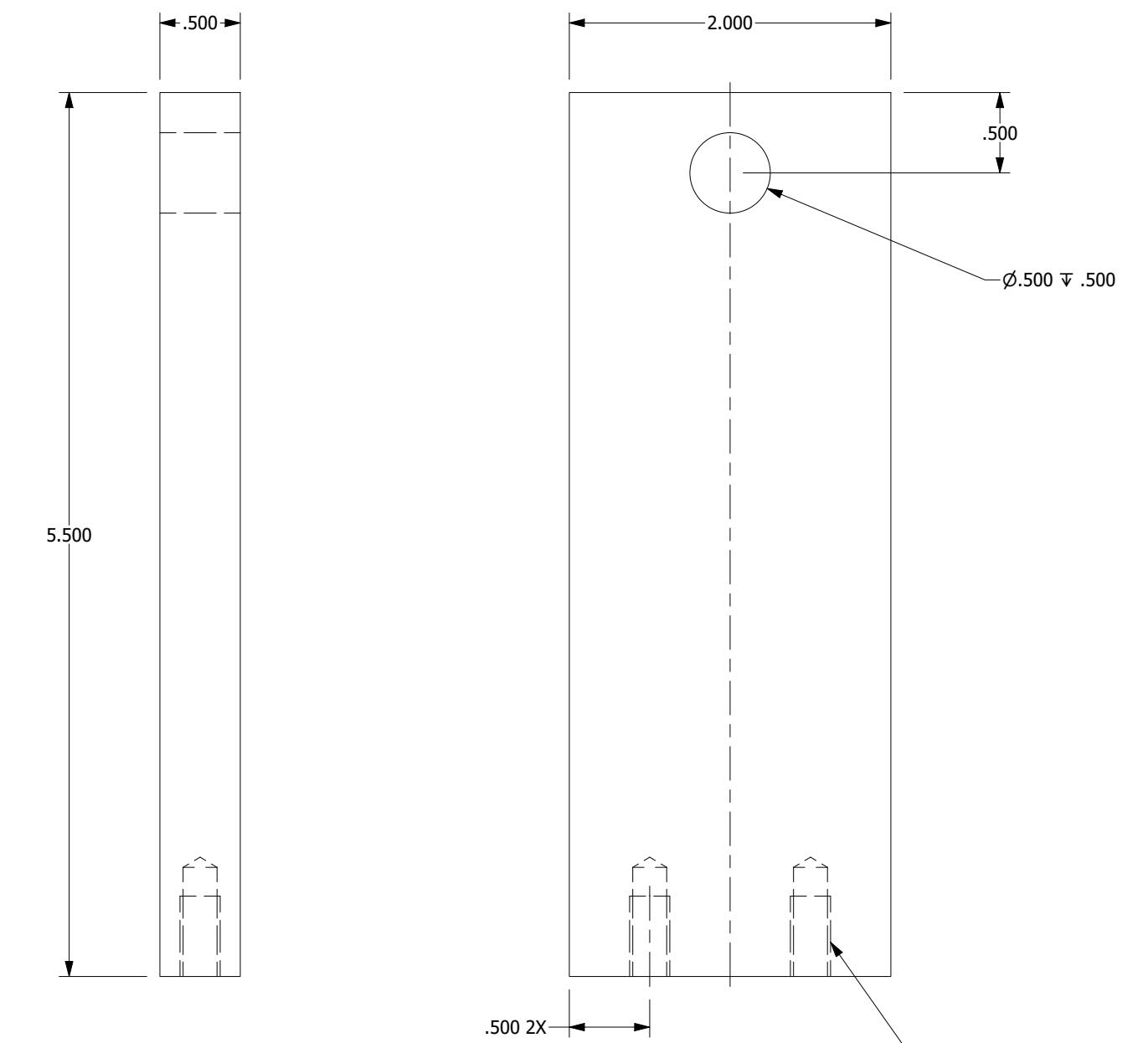
D

C

C

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 9
PART NO. 52301-1-08

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 9 OF 15

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

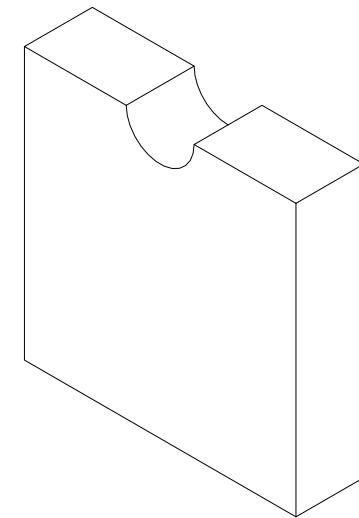
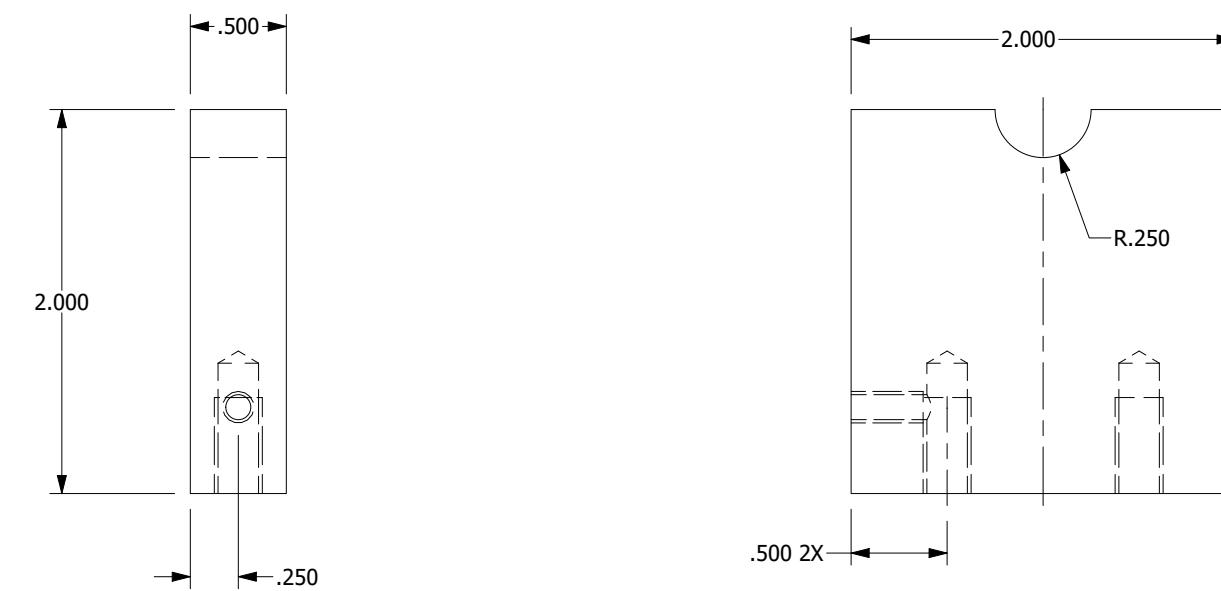
D

C

C

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52301-1-09

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 10 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

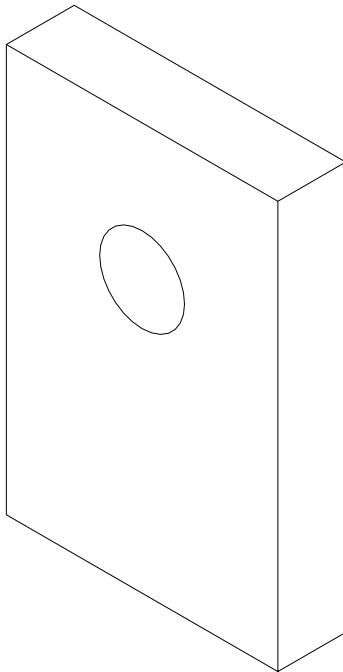
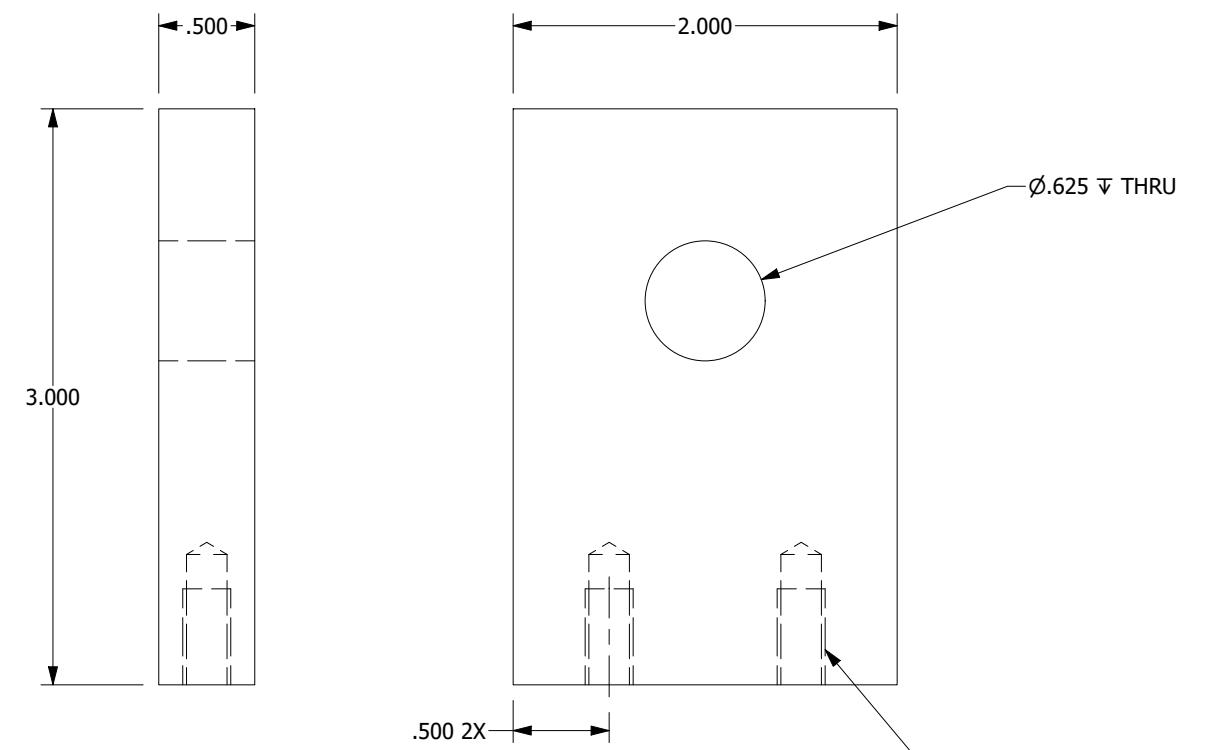
C

B

B

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52301-1-10

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52301 braze fixture
SCALE: NONE	REV	SHEET 11 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

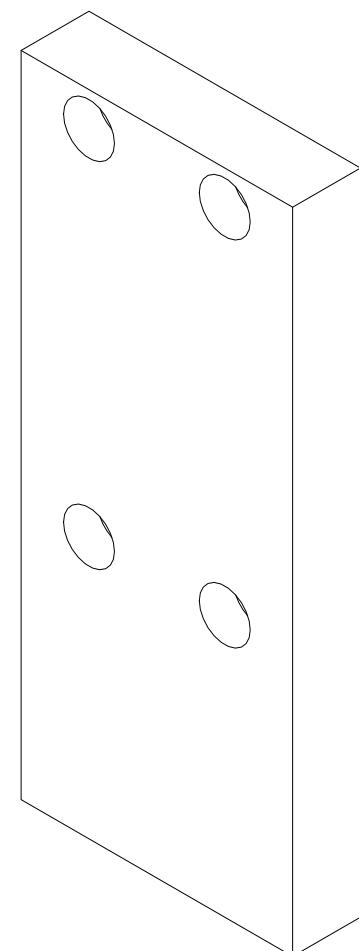
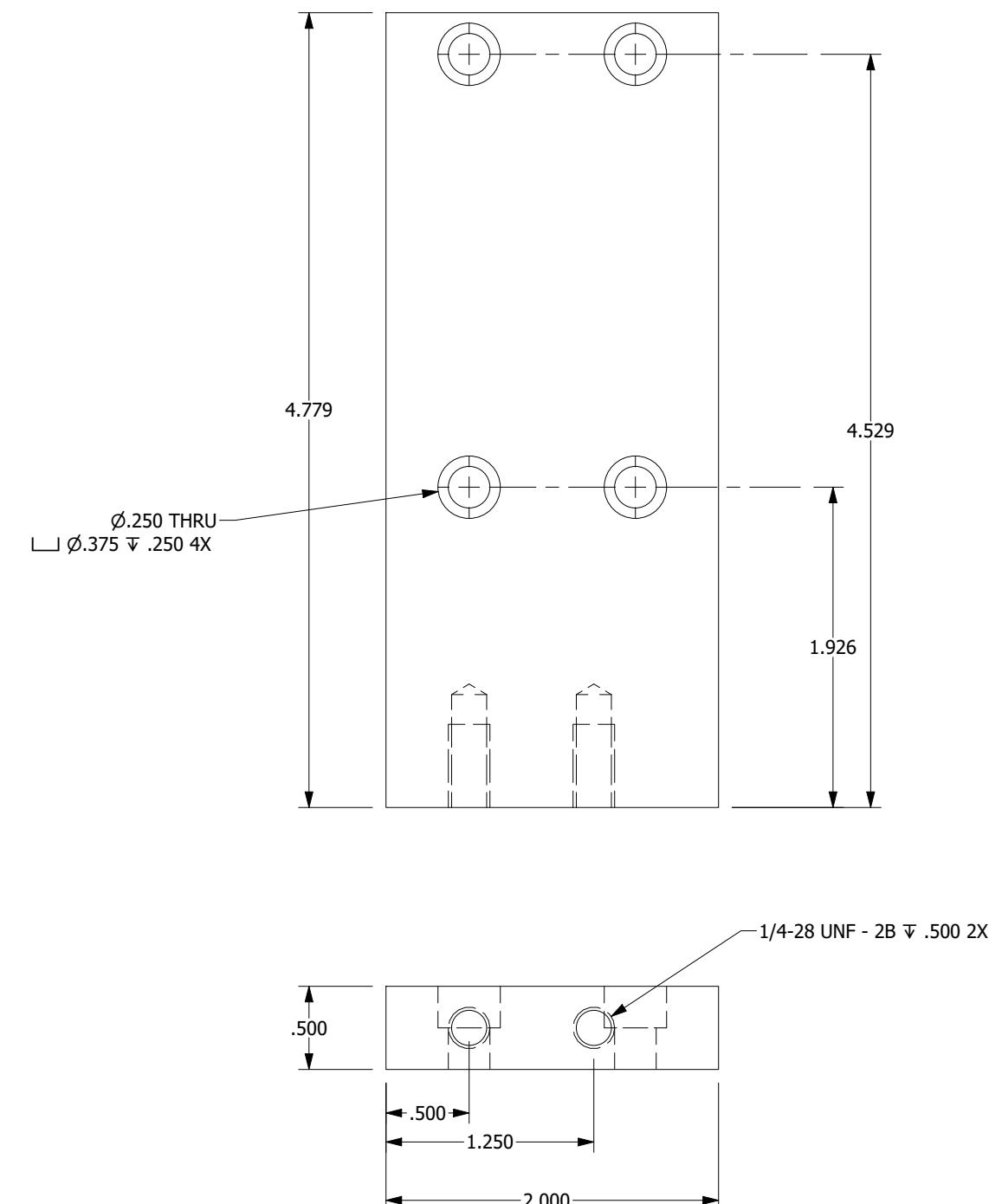
D

C

C

A

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52301-1-11

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 12 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

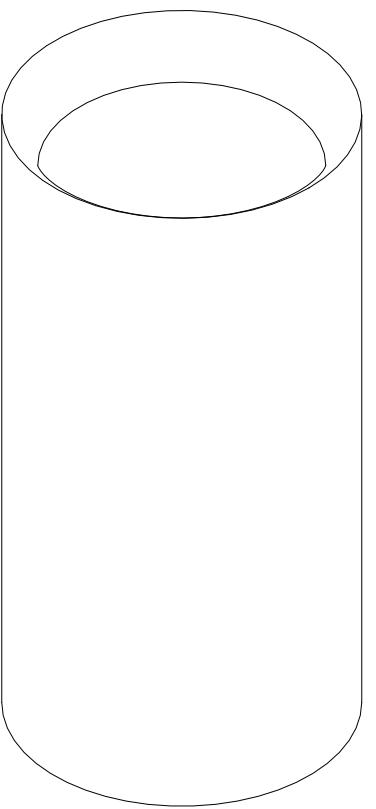
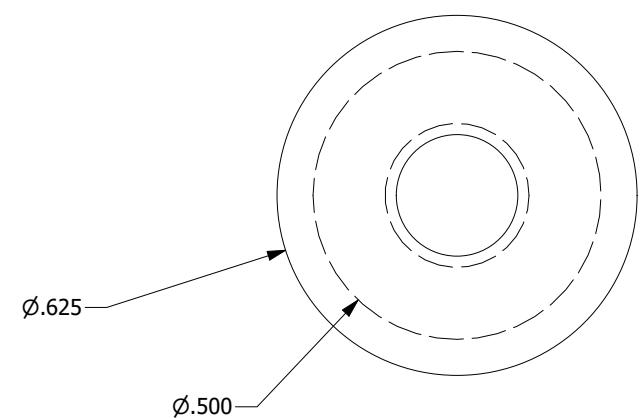
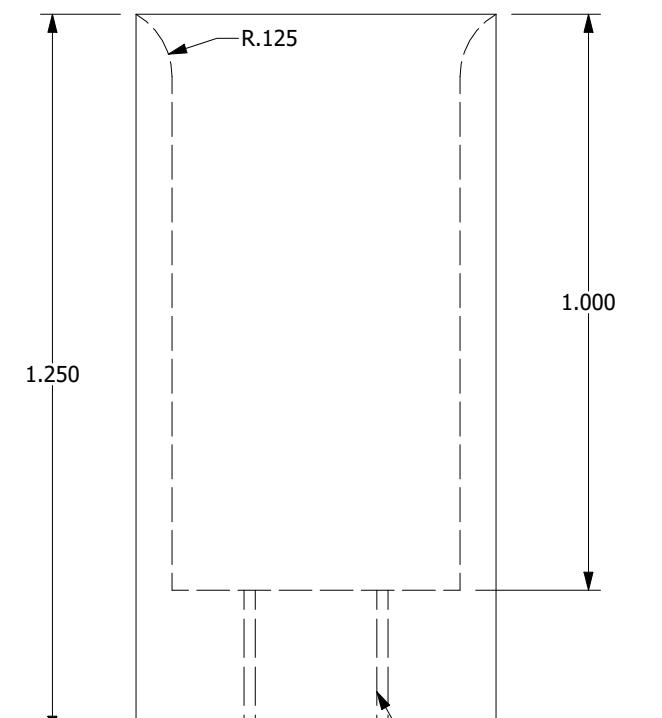
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 14
PART NO. 52301-1-12

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 13 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

C

4

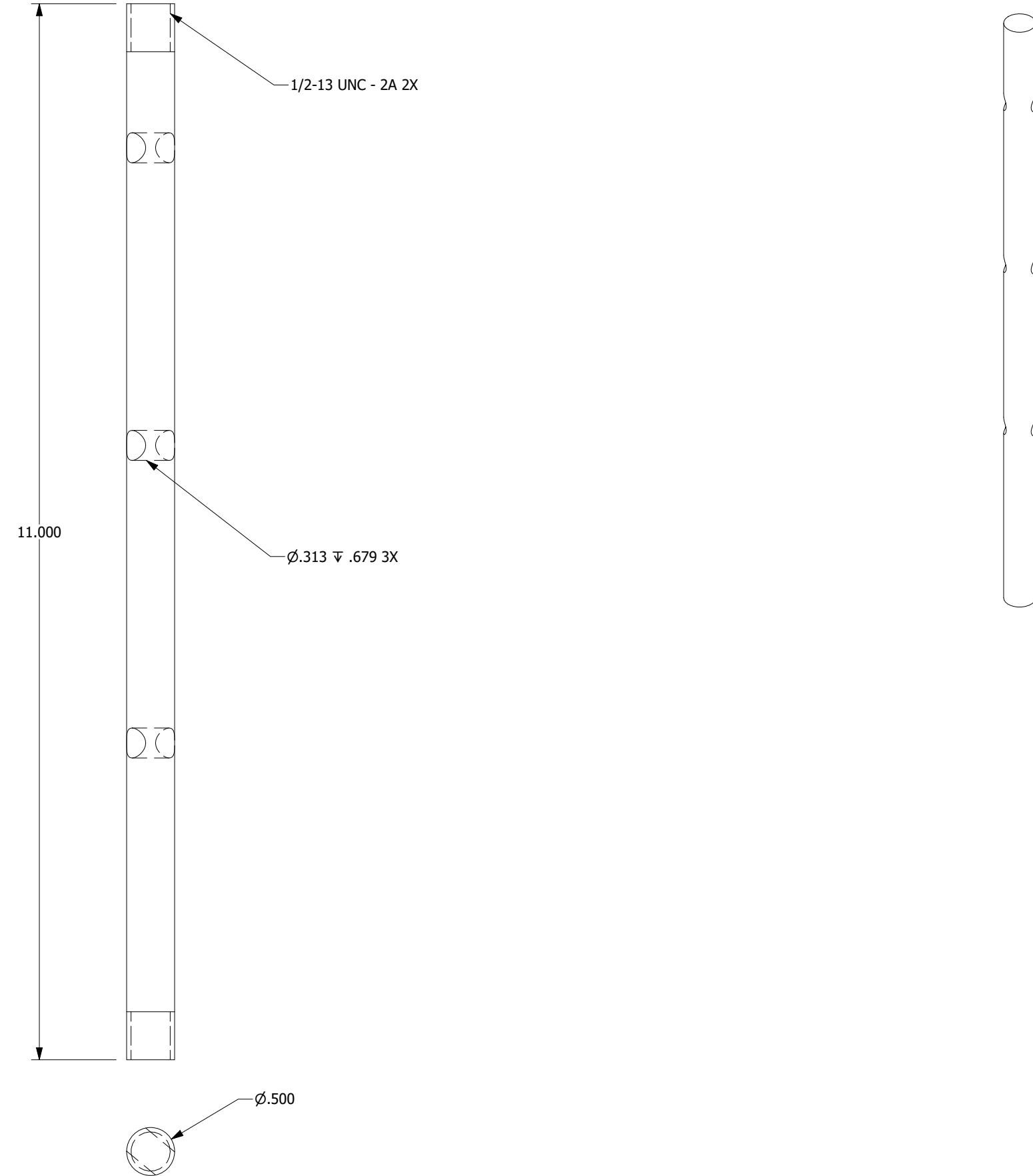
4

B

B

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 14
PART NO. 52301-1-13

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52301 braze fixture
SCALE: NONE	REV	SHEET 14 OF 15

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

C

B

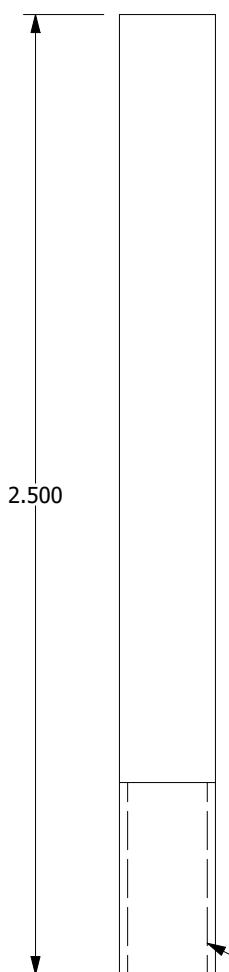
A

D

C

D

A



DRAWING NO. 10-52301 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 16
PART NO. 52301-1-14

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 braze fixture
SCALE: NONE		REV SHEET 15 OF 15

8

7

6

5

4

3

2

1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

D

D

C

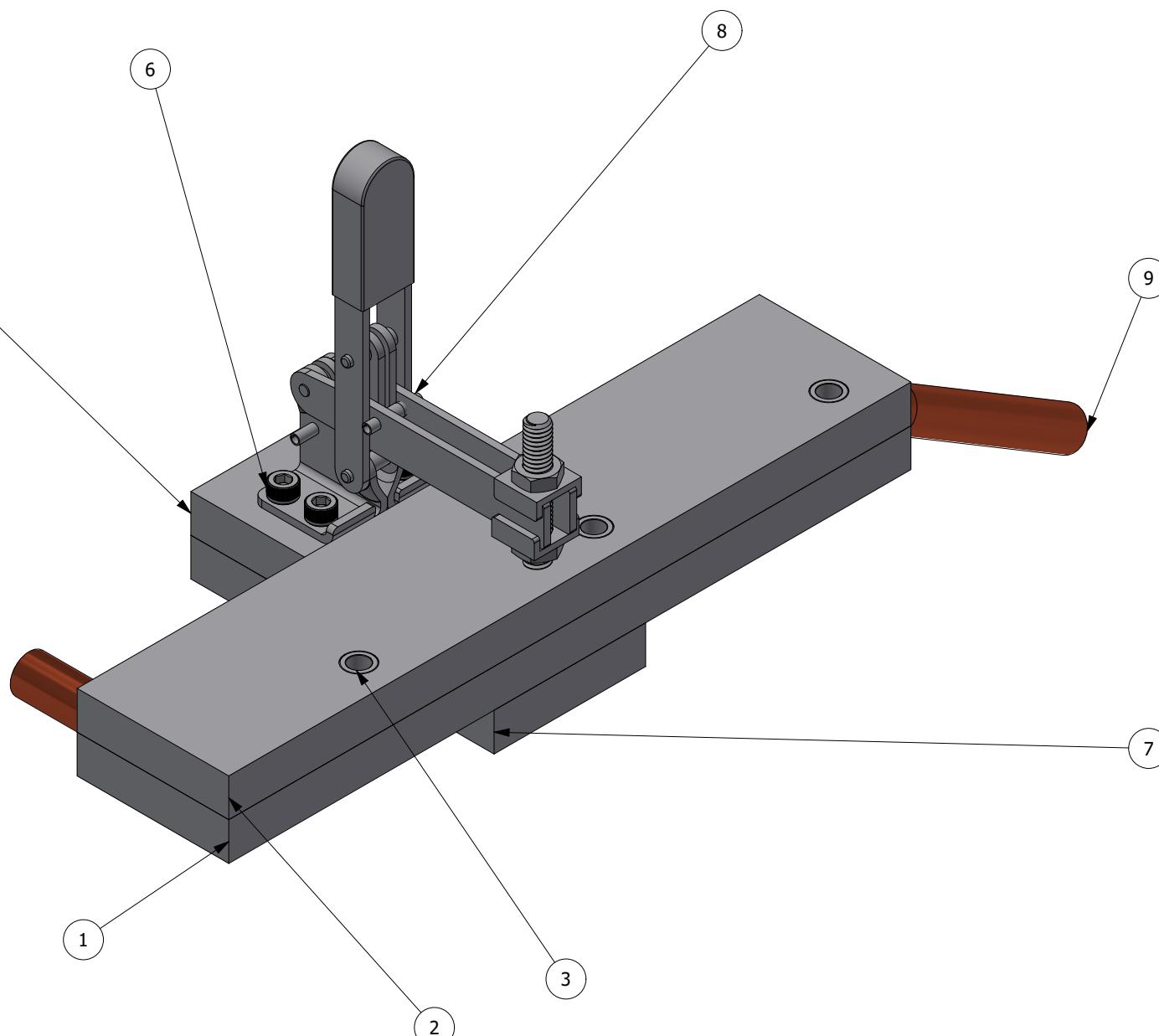
C

B

B

A

A



ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
PARTS LIST				

QUALITY SYMBOLS
 DENOTES CRITICAL INSPECTION
 NEXT ASSY USED ON APPLICATION
 THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	CONTRACT NO.
TOLERANCES:	
ANGLES X ± 1°	
1 PLACE DIM. X ± .1	
2 PLACE DIM. X ± .01	
3 PLACE DIM. X ± .005	
	DATE
DRAWN B. VILLANUEVA	10/29/2023
CHECKED	
	DATE
MECHANICAL B. VILLANUEVA	10/29/2023
ELECTRICAL	
OPERATIONS B. BLACH	
APPROVED G. COLE	

Solutions Through Advanced Technology
MAINSTREAM
 ENGINEERING

SIZE CAGE CODE DRAWING NO.
B 0A0B7 10-52301 drill fixture

SCALE: NONE UNIT WT. REV SHEET 1 OF 5

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

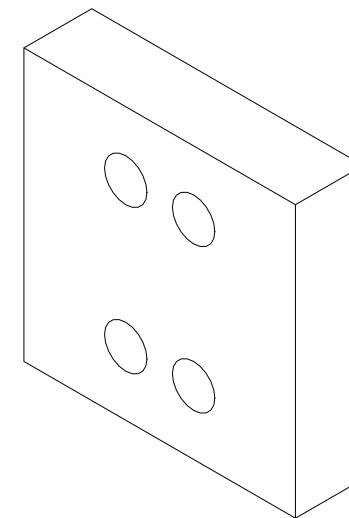
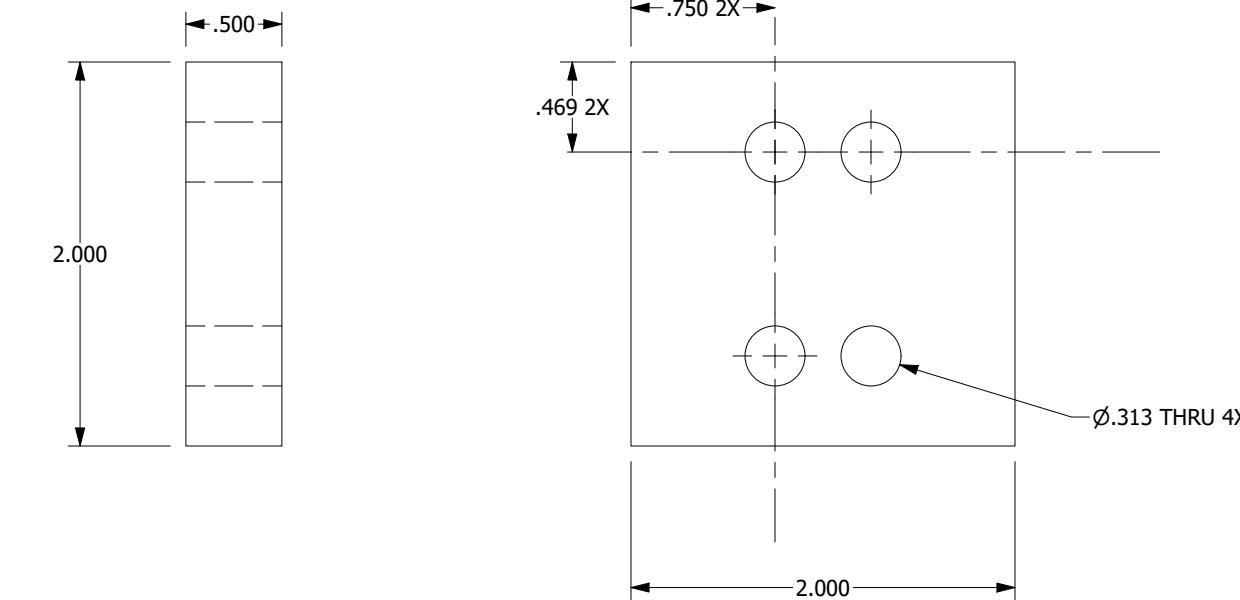
D

C

C

A

A



DRAWING NO. 10-52301 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52301-2-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 drill fixture
SCALE: NONE		REV SHEET 2 OF 5

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

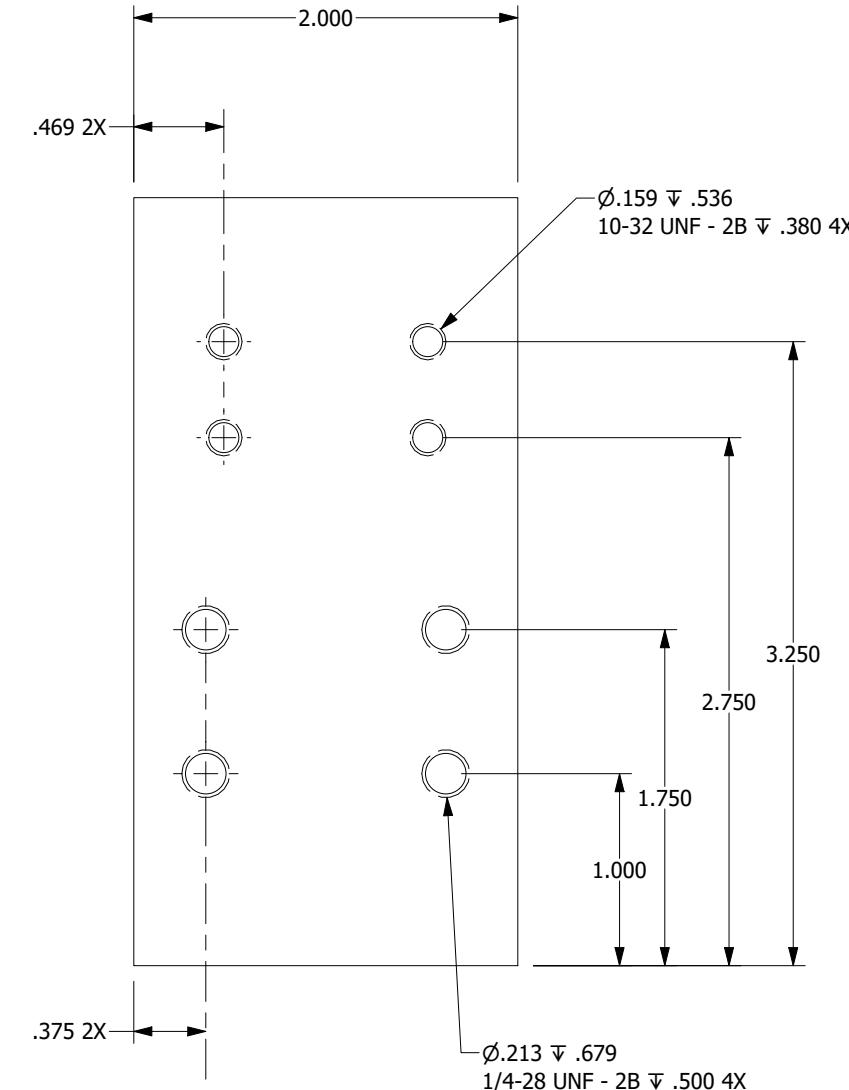
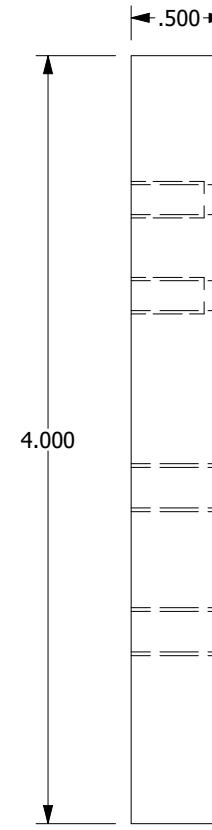
D

C

C

A

A



DRAWING NO. 10-52301 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52301-2-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 drill fixture
SCALE: NONE		REV SHEET 3 OF 5

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

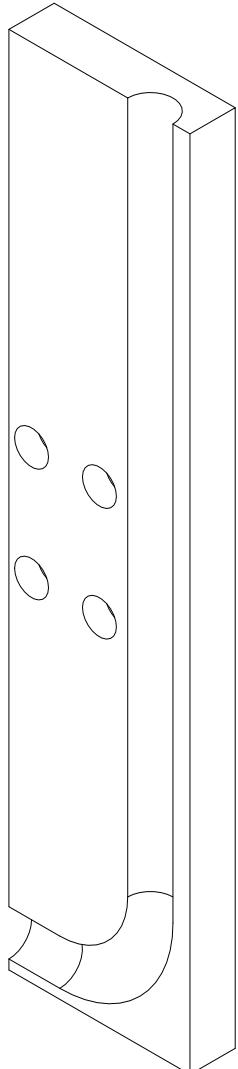
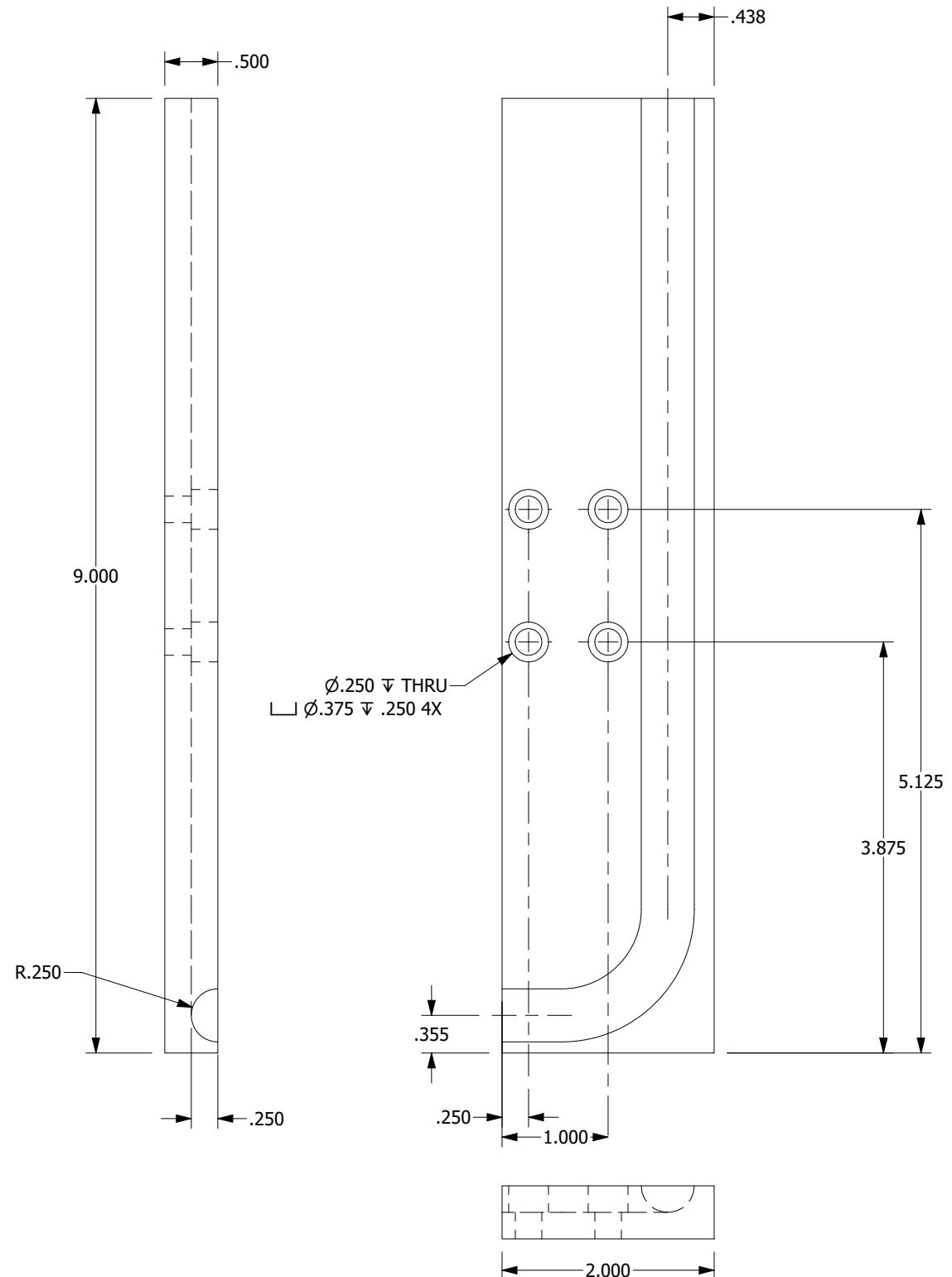
D

C

C

A

A



DRAWING NO. 10-52301 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52301-2-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52301 drill fixture
SCALE: NONE		REV SHEET 4 OF 5

8

7

6

5

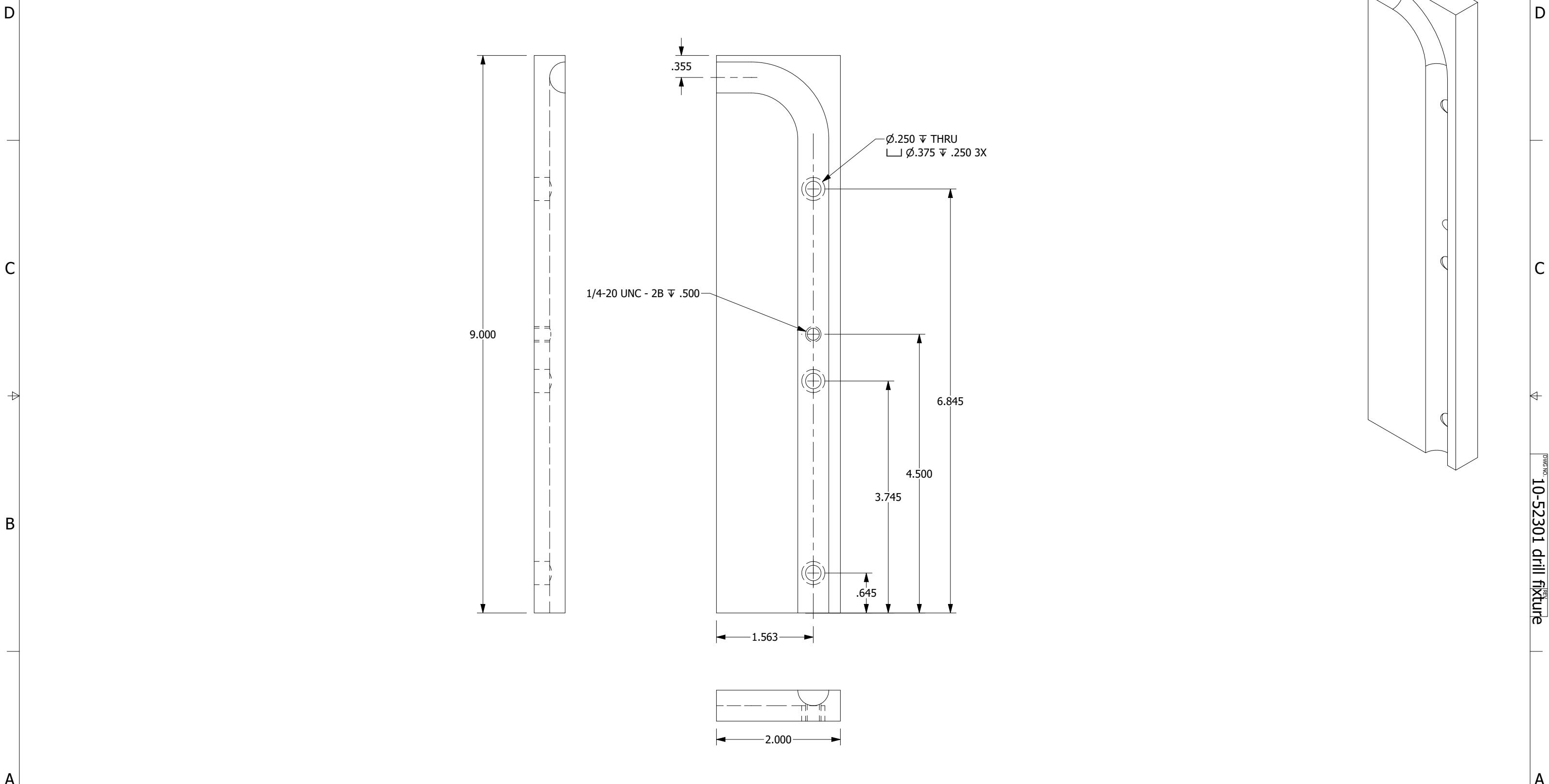
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52301-2-04

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52301 drill fixture
SCALE: NONE		REV SHEET 5 OF 5

8

7

6

5

4

3

2

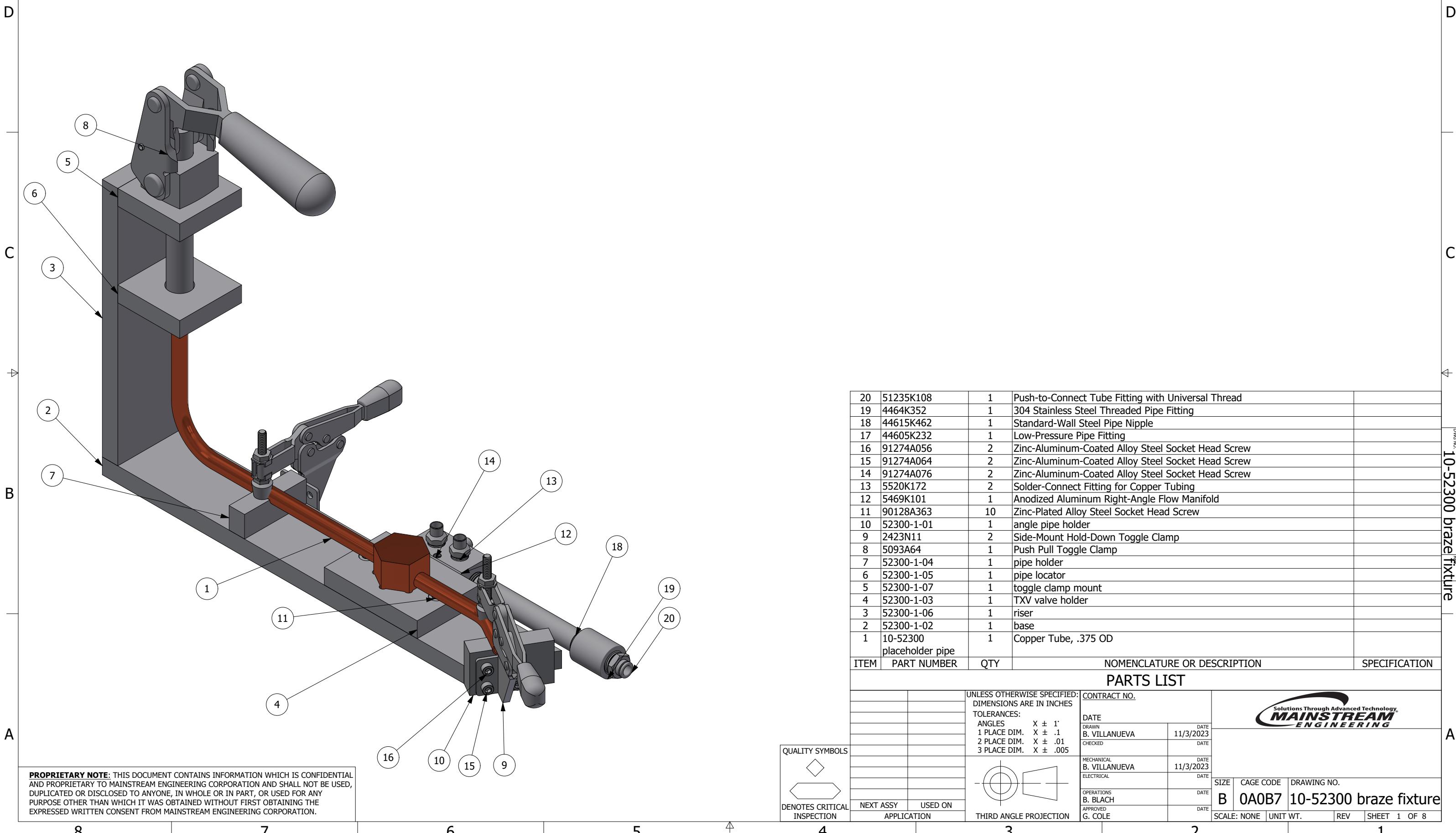
1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

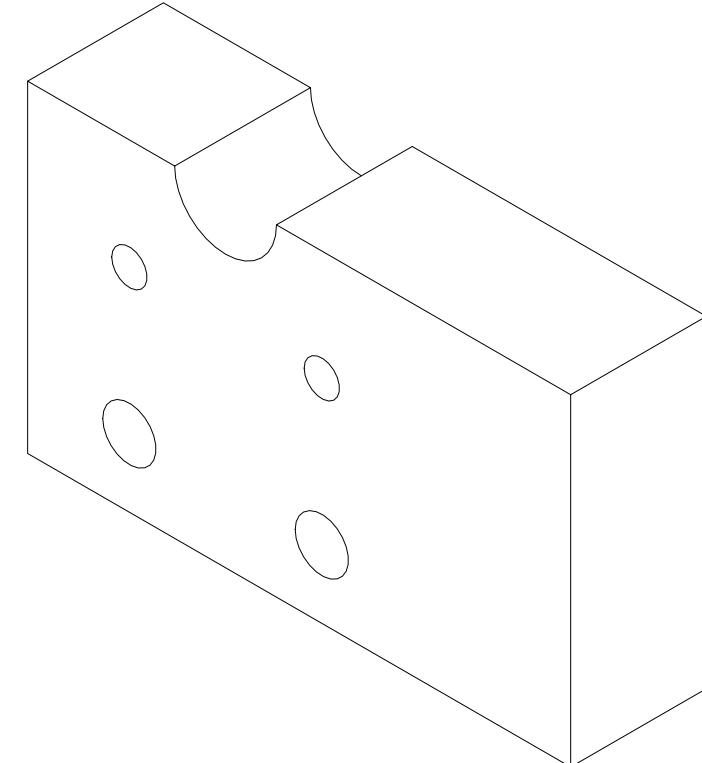
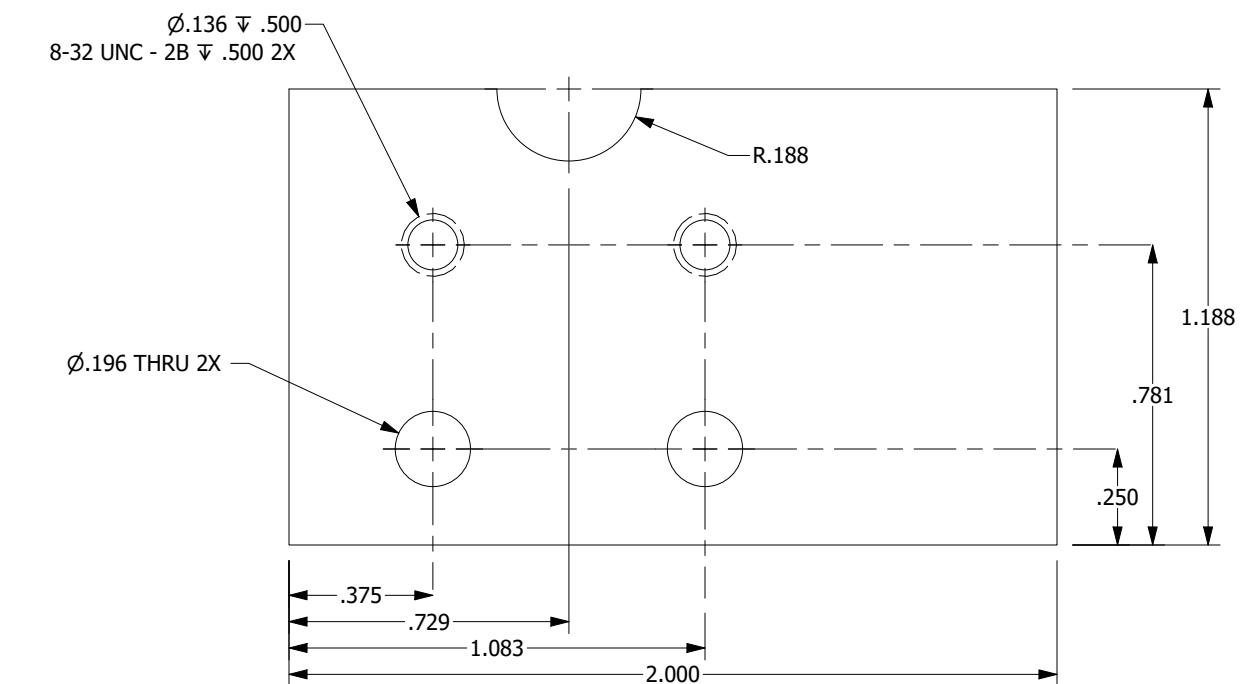
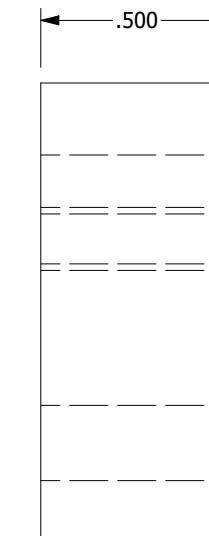
D

C

C

A

A



DRAWING NO. 10-52300 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52300-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 2 OF 8

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

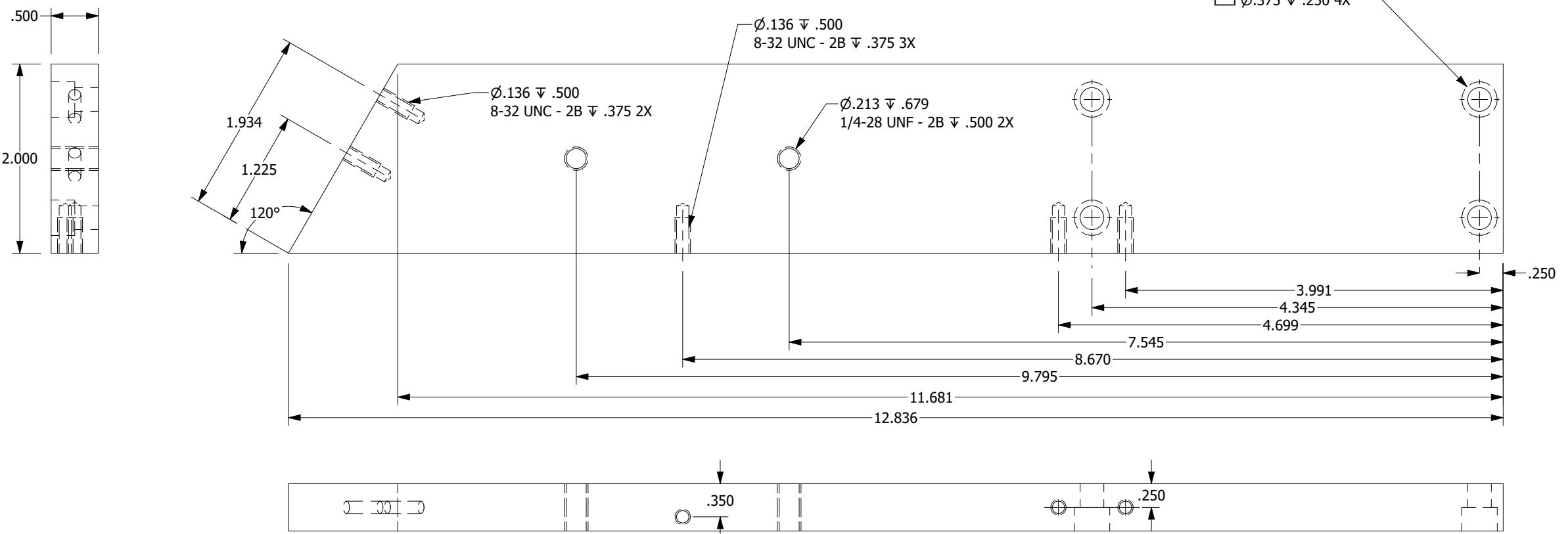
C

A

A

B

B



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52300-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 3 OF 8

8

7

6

5

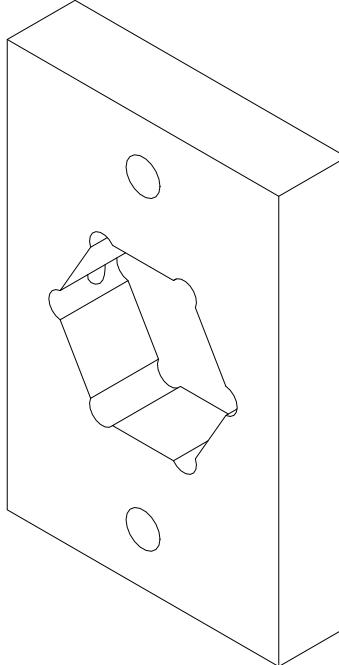
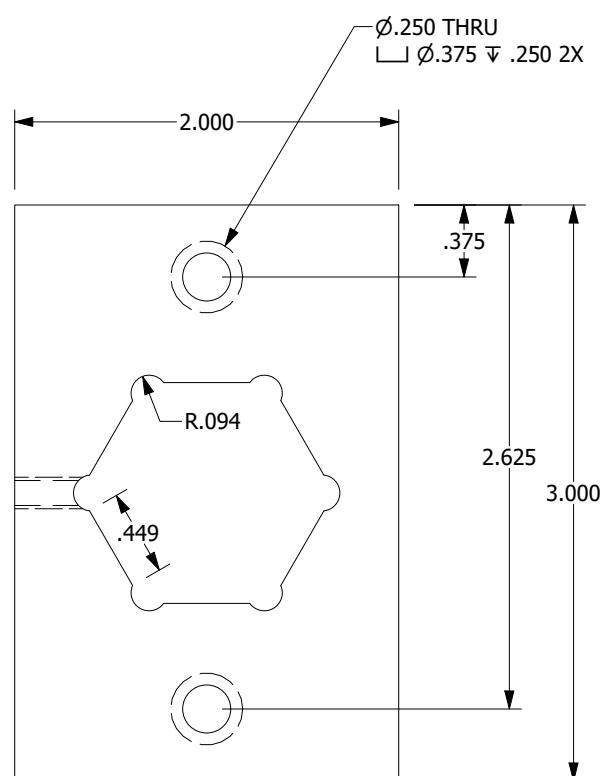
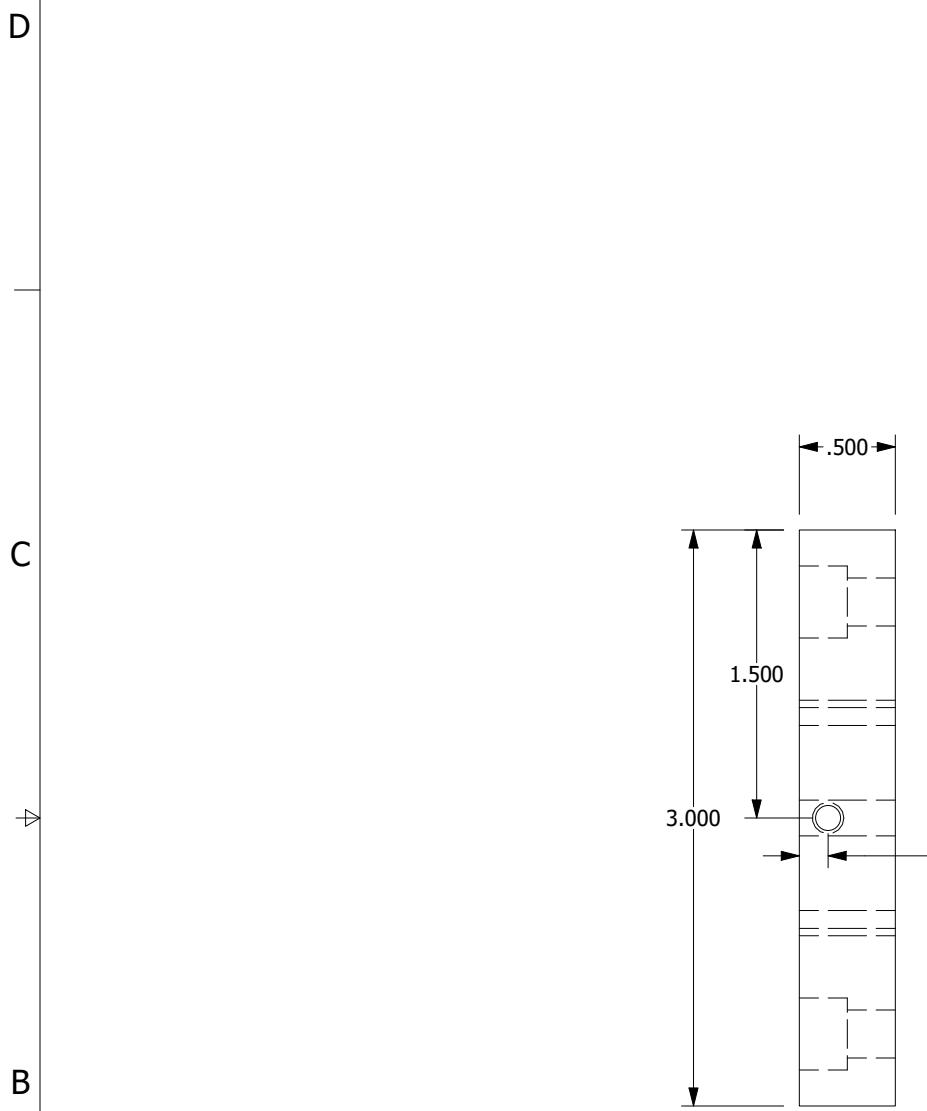
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52300 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52300-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 4 OF 8

8

7

6

5

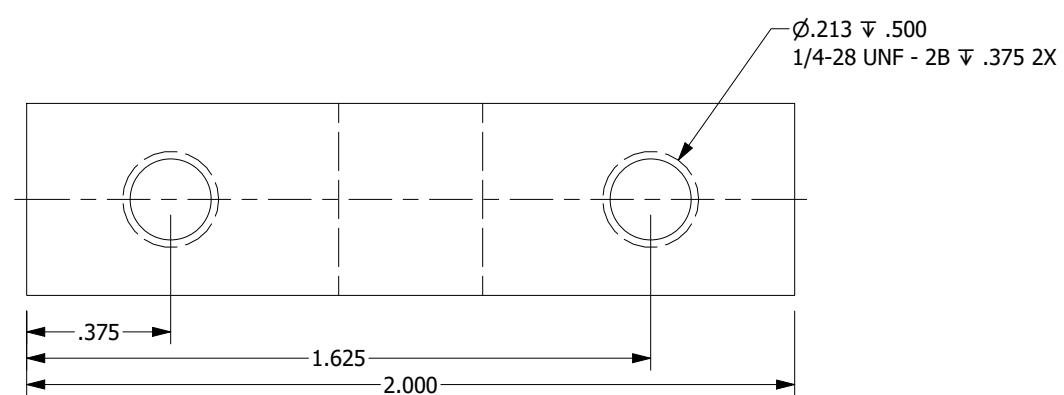
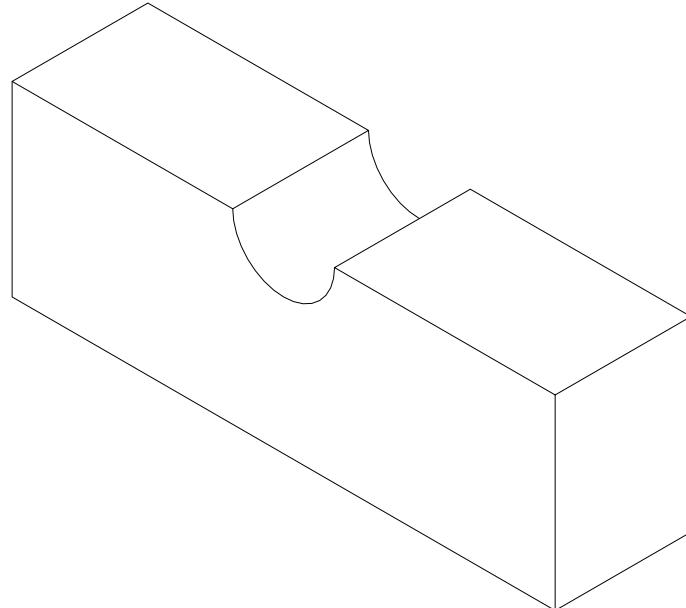
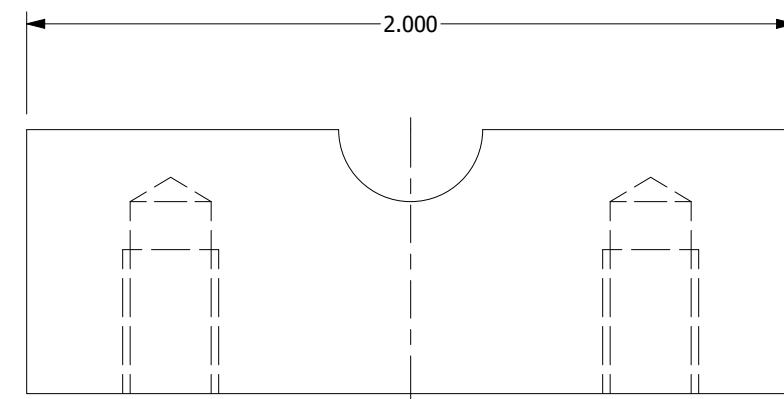
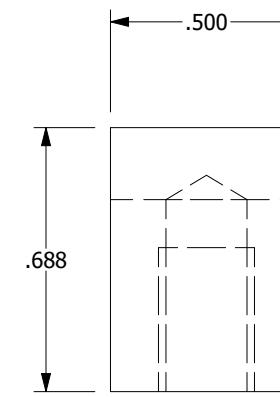
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52300 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52300-1-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 5 OF 8

8

7

6

5

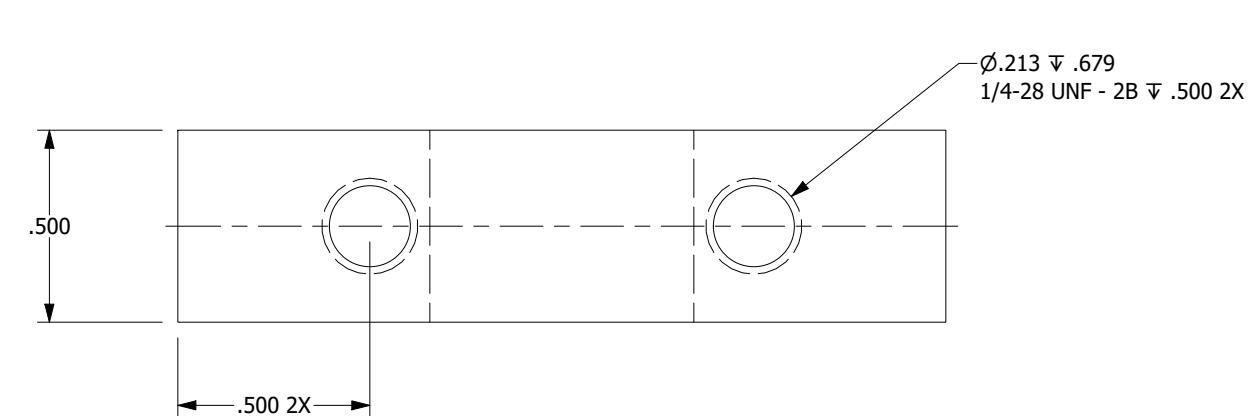
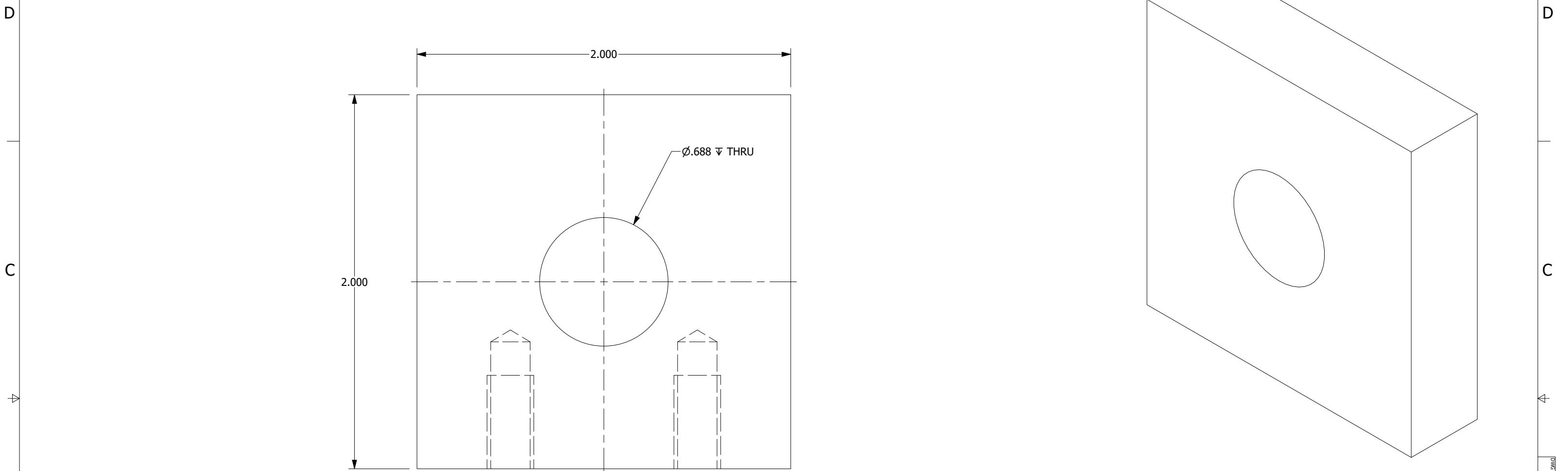
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52300-1-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 6 OF 8

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

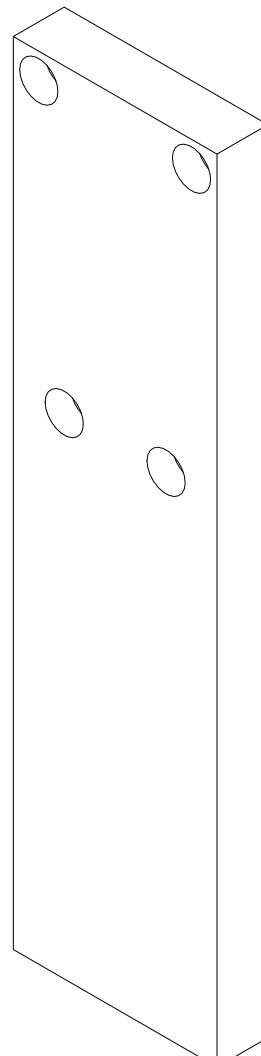
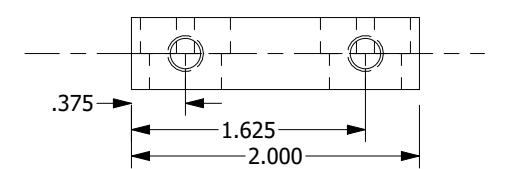
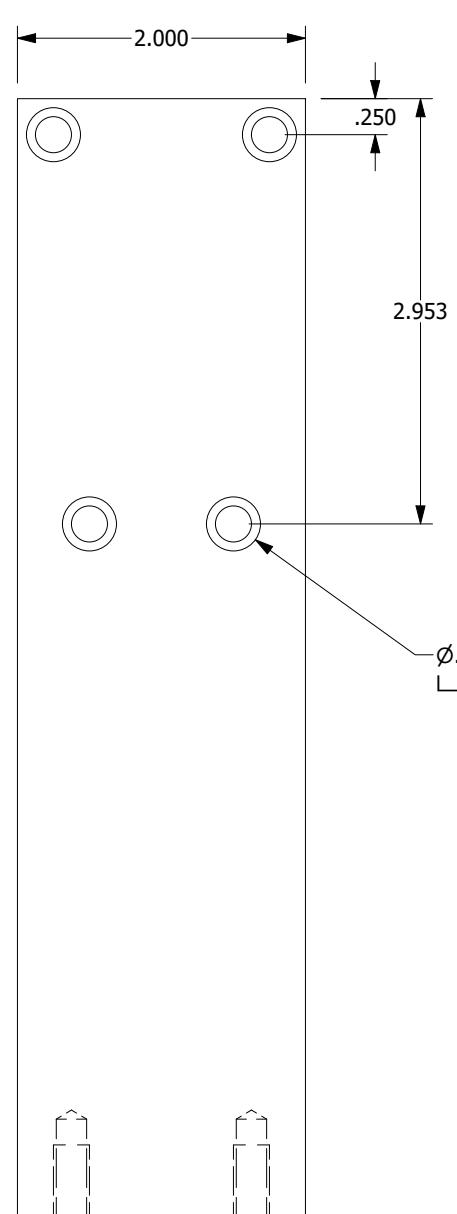
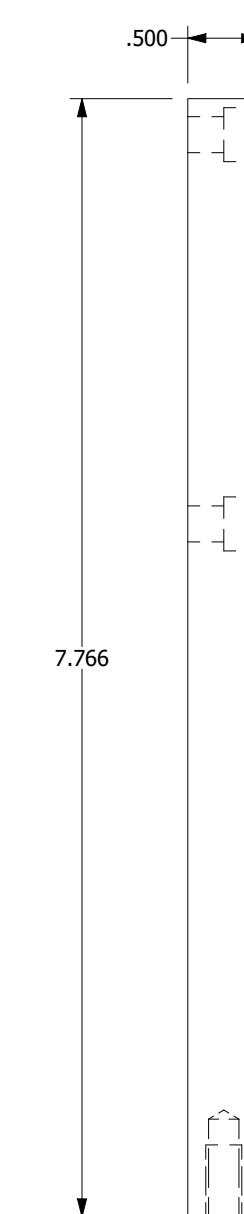
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52300-1-06

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 7 OF 8

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

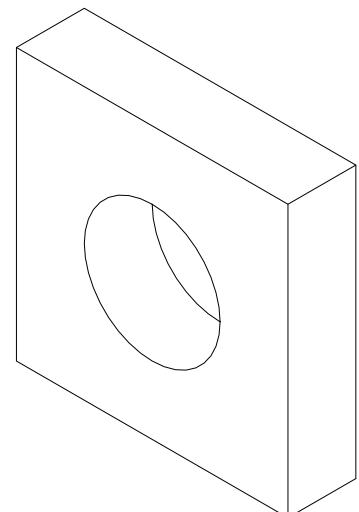
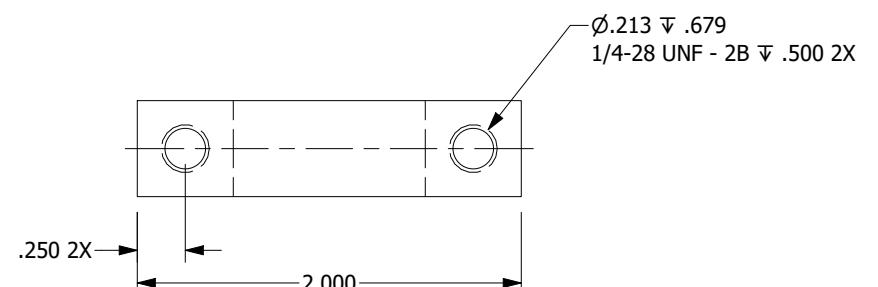
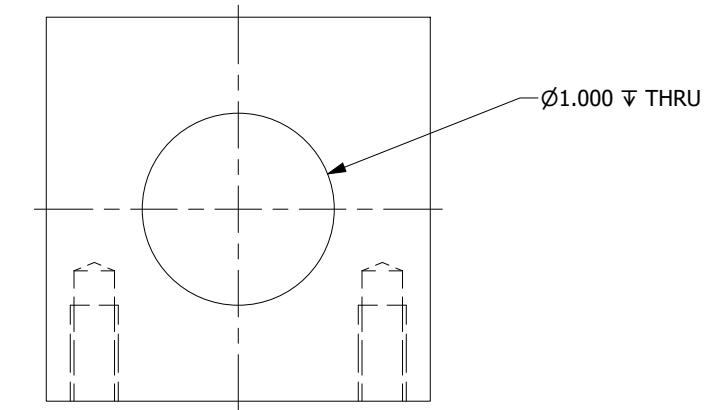
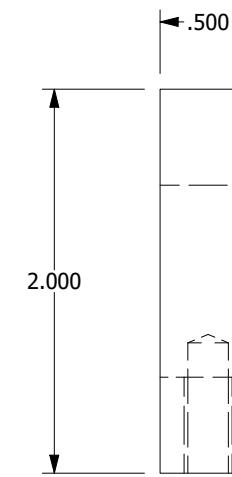
D

C

C

A

A



DRAWING NO. 10-52300 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52300-1-07

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52300 braze fixture
SCALE: NONE		REV SHEET 8 OF 8

8

7

6

5

4

3

2

1

8

-

REVISIONS

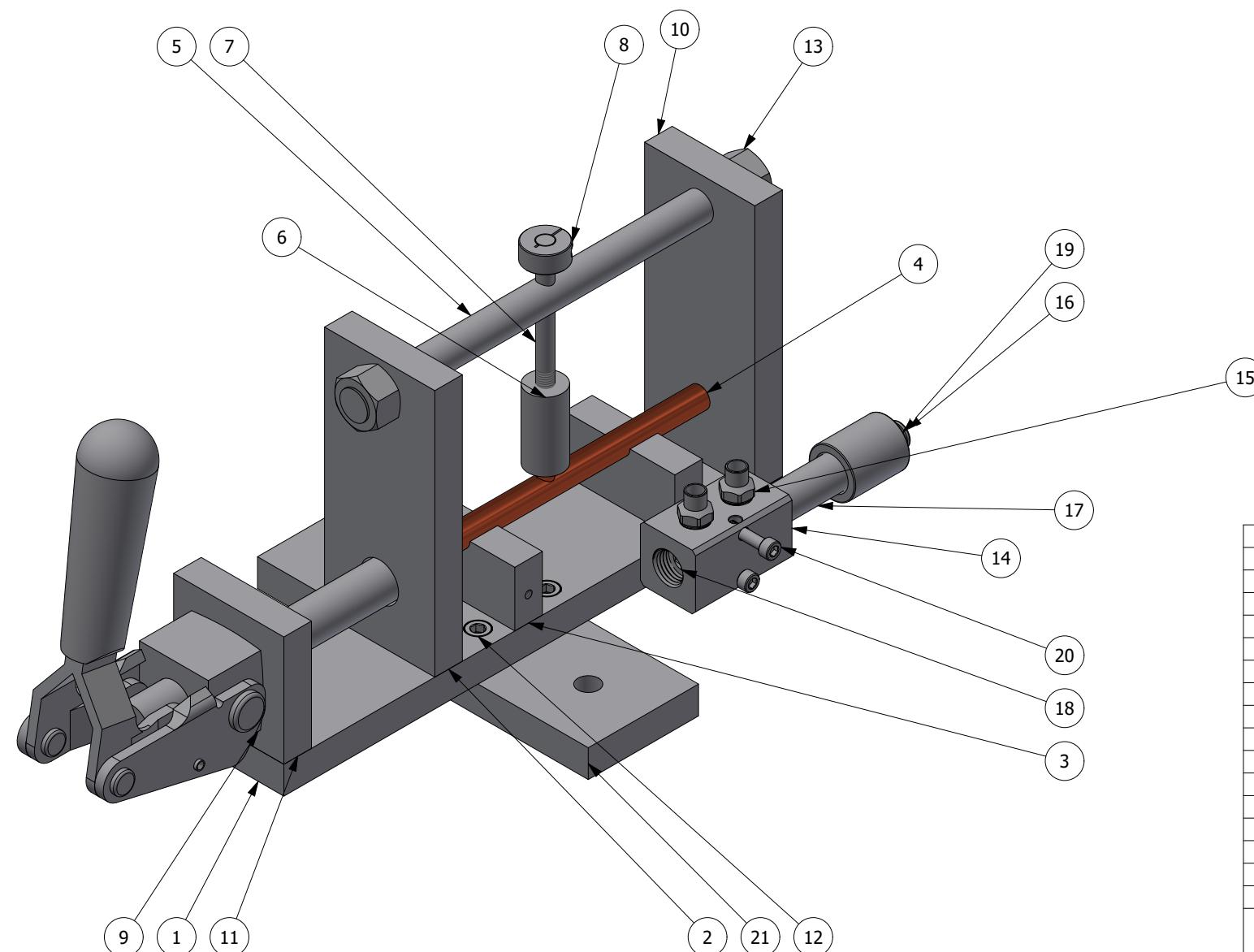
REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100
 2. REMOVE ALL BURRS AND SHARP EDGES.

D

D

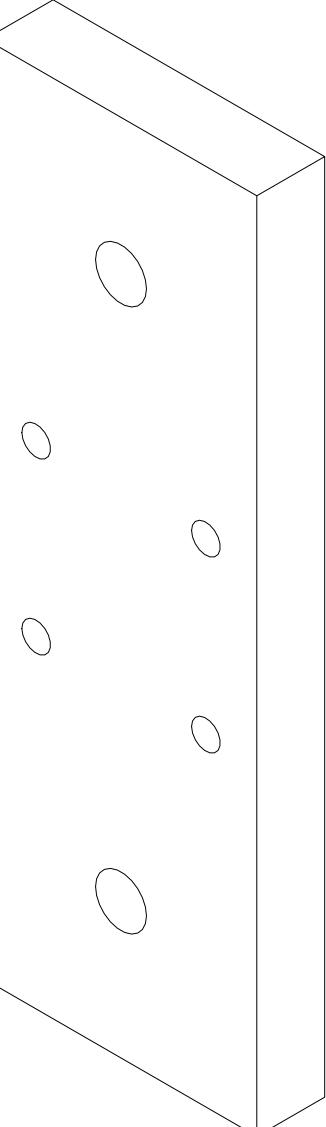
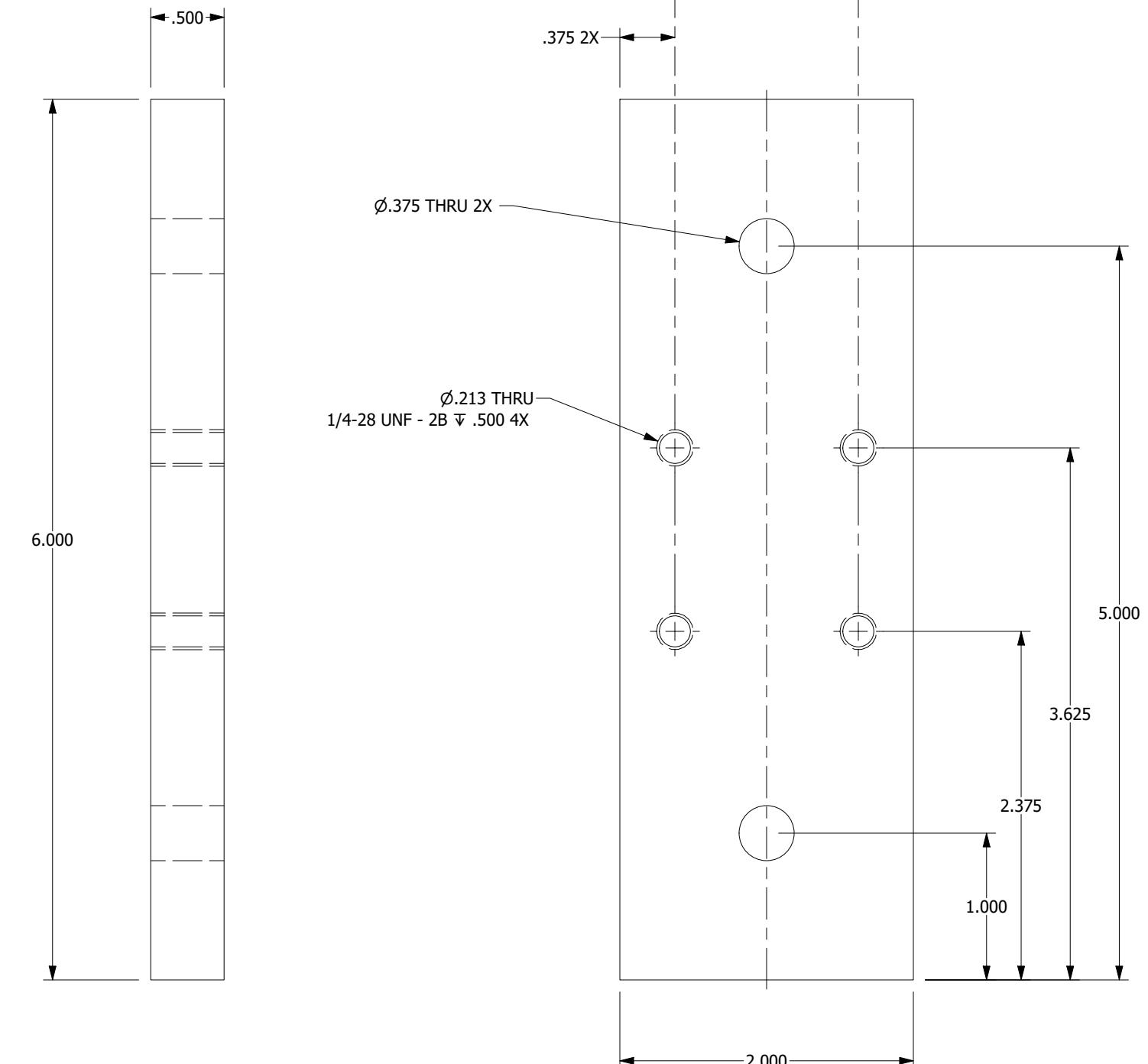


21	52304-1-01	1	base adapter plate
20	90128A201	2	Zinc-Plated Alloy Steel Socket Head Screw
19	4464K352	1	304 Stainless Steel Threaded Pipe Fitting
18	44605K232	1	Low-Pressure Pipe Fitting
17	44615K452	1	Standard-Wall Steel Pipe Nipple
16	51235K108	1	Push-to-Connect Tube Fitting with Universal Thread
15	5520K172	2	Solder-Connect Fitting for Copper Tubing
14	5469K101	1	Anodized Aluminum Right-Angle Flow Manifold
13	98797A523	2	Medium-Strength Steel Hex Nuts - Grade 5
12	90128A363	14	Zinc-Plated Alloy Steel Socket Head Screw
11	52304-1-03	1	toggle clamp mount
10	52304-1-04	1	riser
9	5093A64	1	Push Pull Toggle Clamp
8	6435K1	1	Clamping Shaft Collar
7	52304-1-09	1	valve drop
6	52304-1-08	1	valve holder
5	52304-1-05	1	valve drop holder
4	10-52304 placeholder pipe	1	copper tube, .375 OD, length including fittings, post end-forming
3	52304-1-06	2	pipe holder
2	52304-1-07	1	clamp-side riser
1	52304-1-02	1	base

NUMENCLATURE OR PARTS LIST

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 21
PART NO. 52304-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 2 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

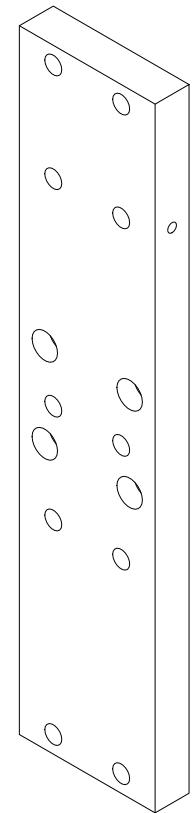
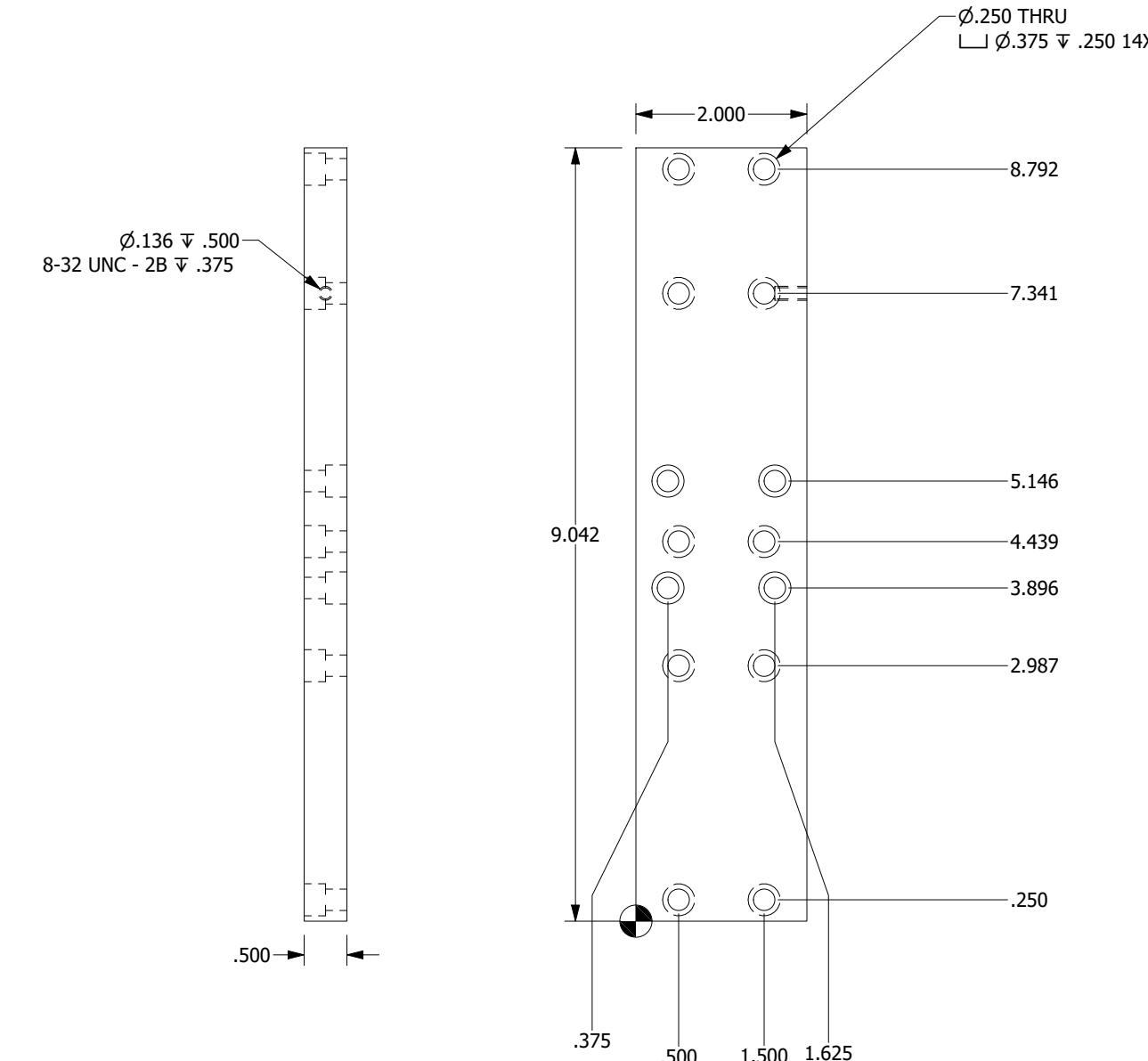
D

C

C

A

A



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52304-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 3 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

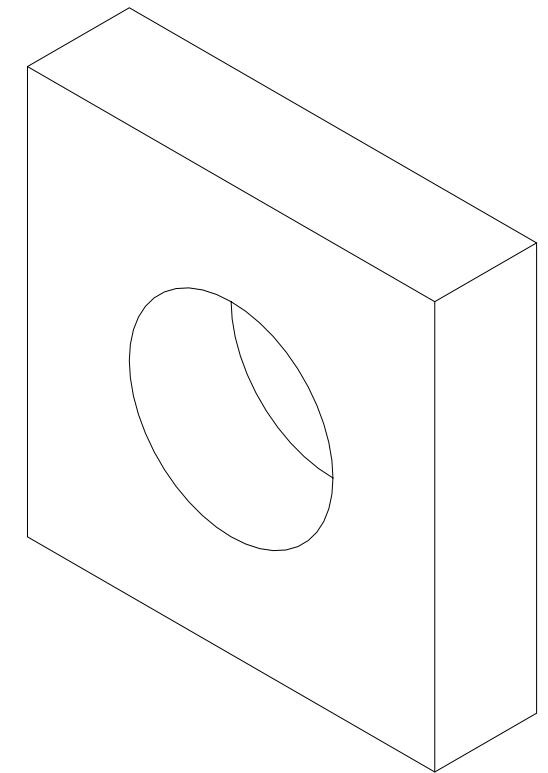
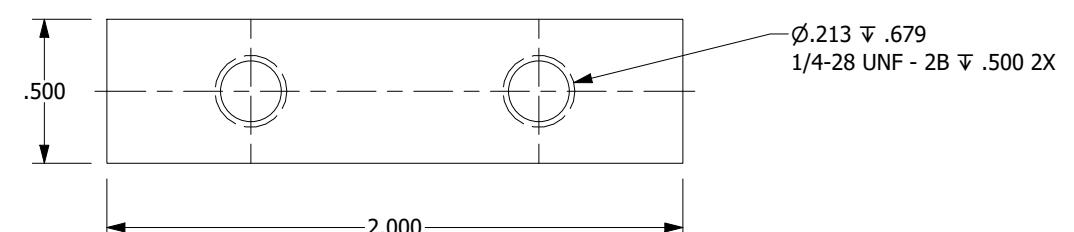
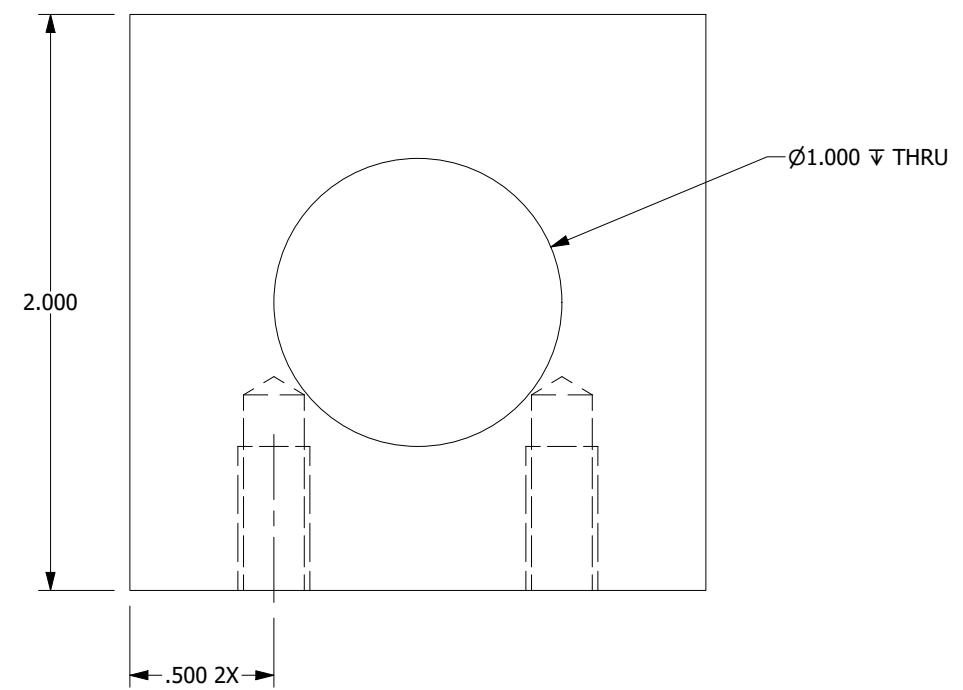
D

C

C

A

A



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 11
PART NO. 52304-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 4 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

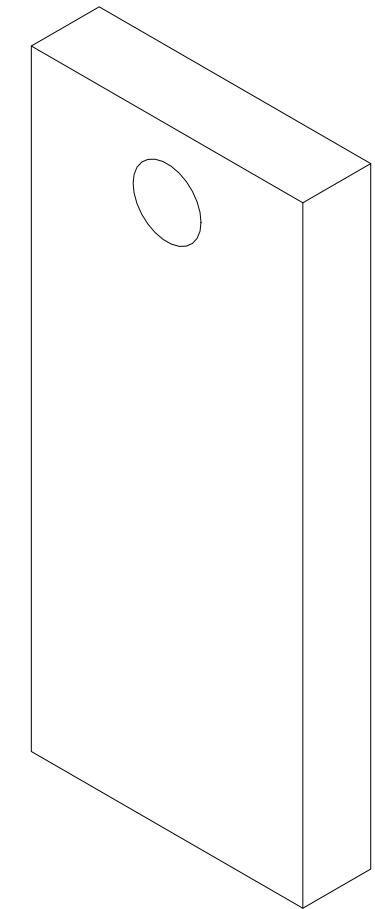
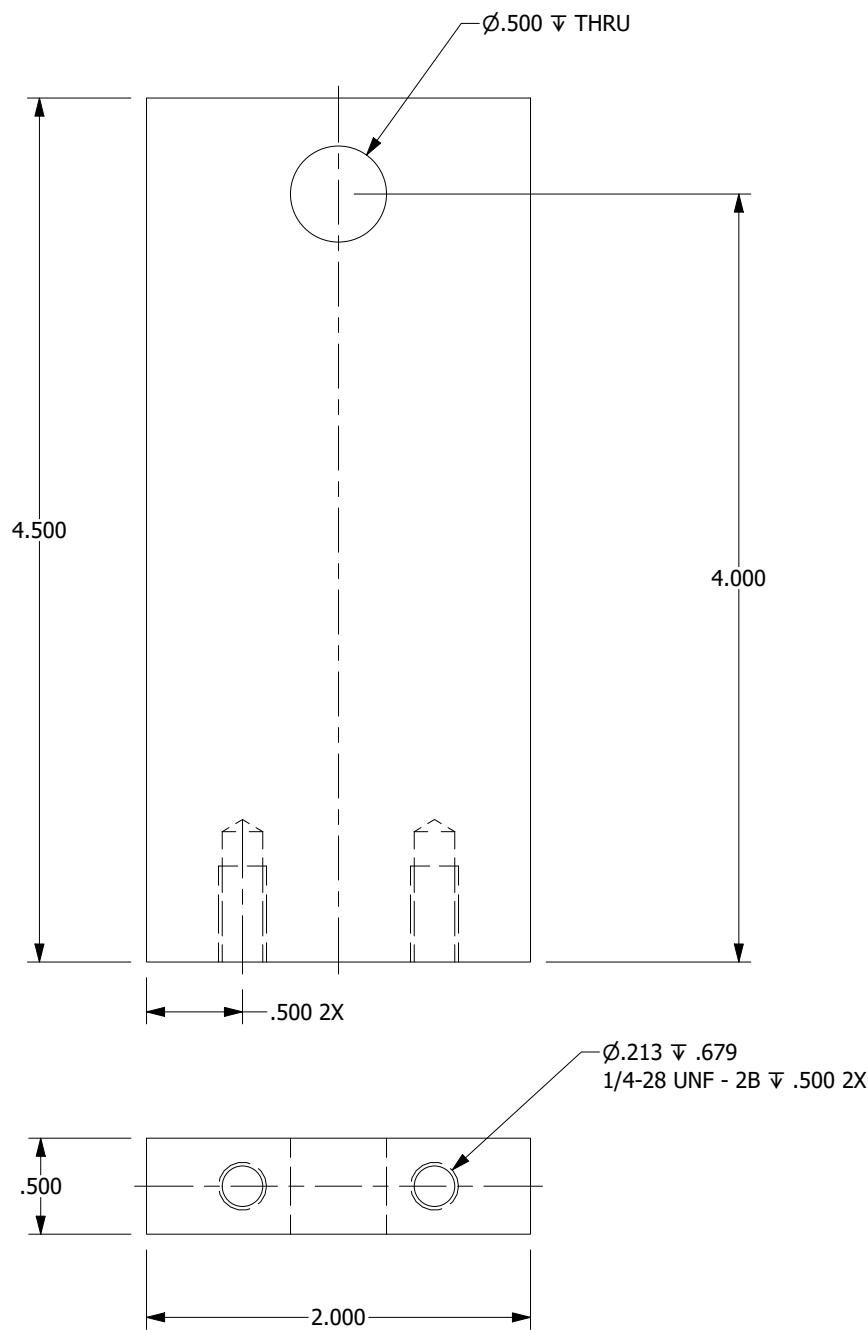
D

C

C

A

A



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52304-1-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 5 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .5" Diameter

D

D

C

C

4

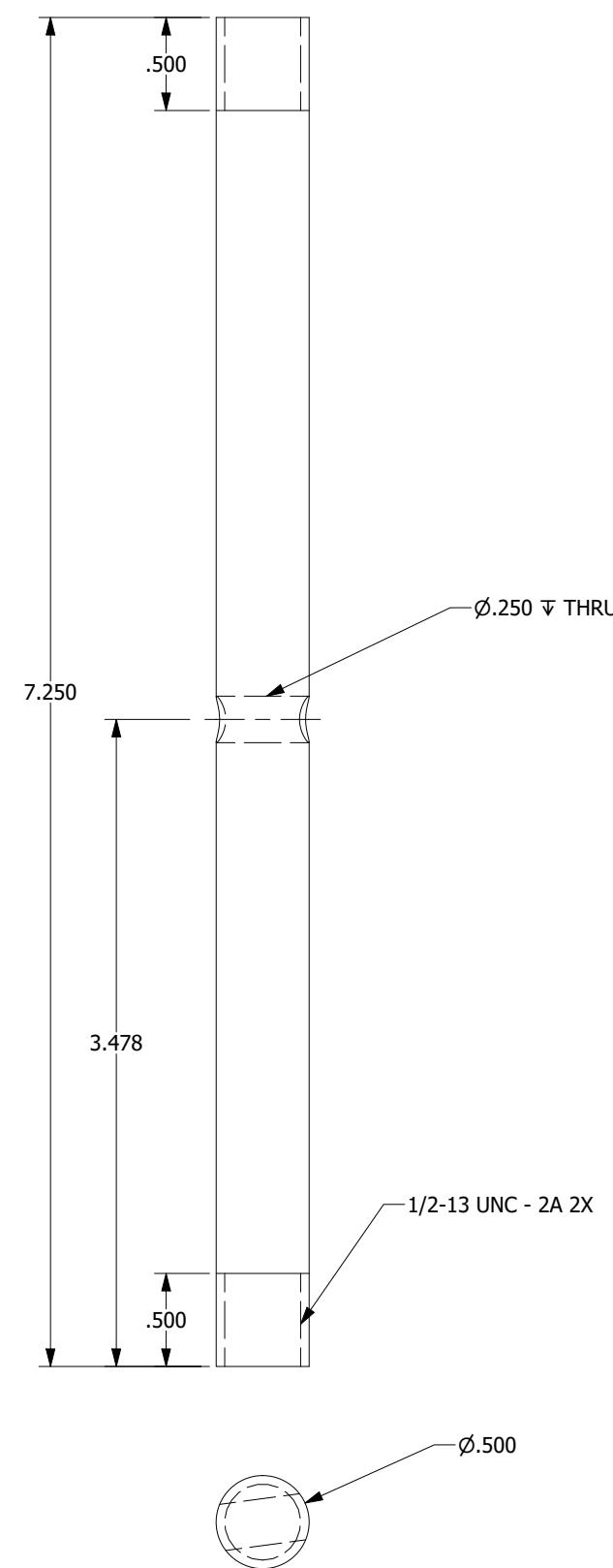
4

B

B

A

A



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52304-1-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 6 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

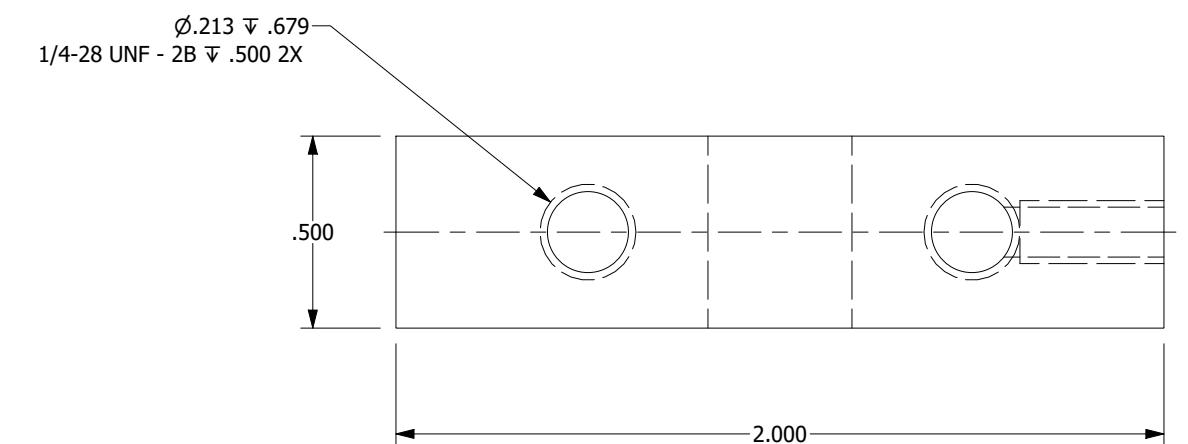
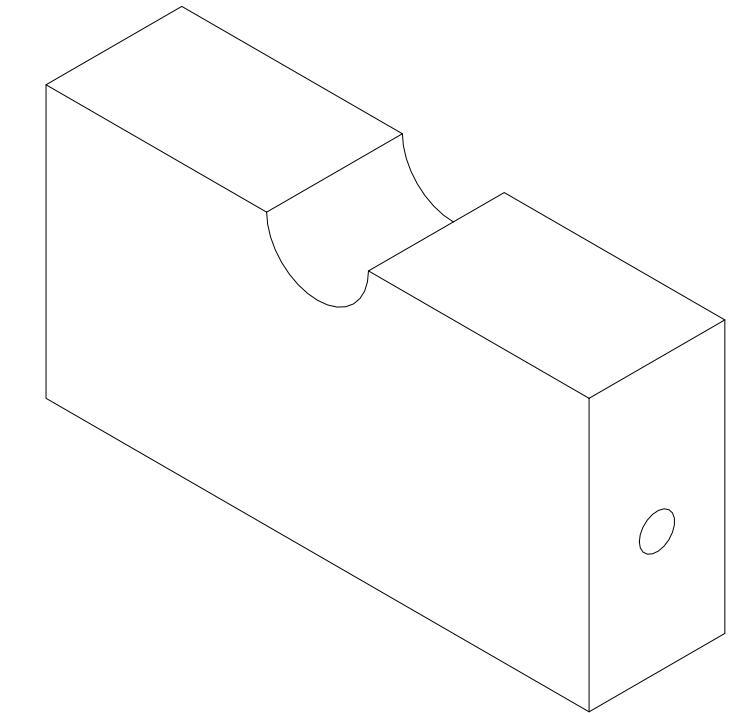
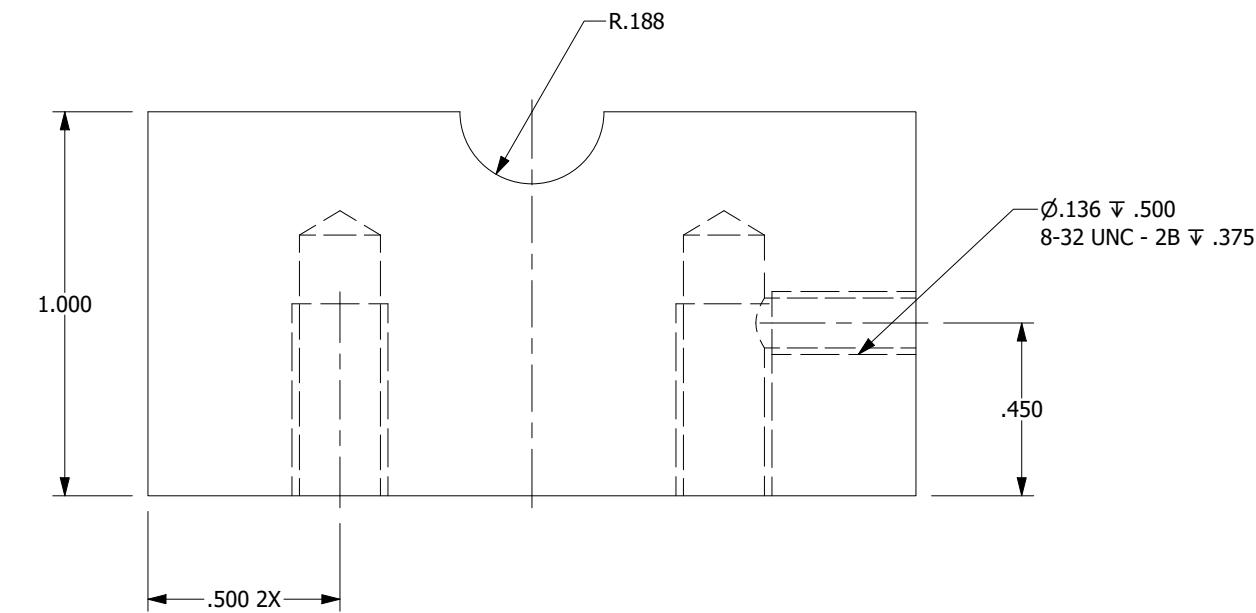
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52304-1-06

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 7 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

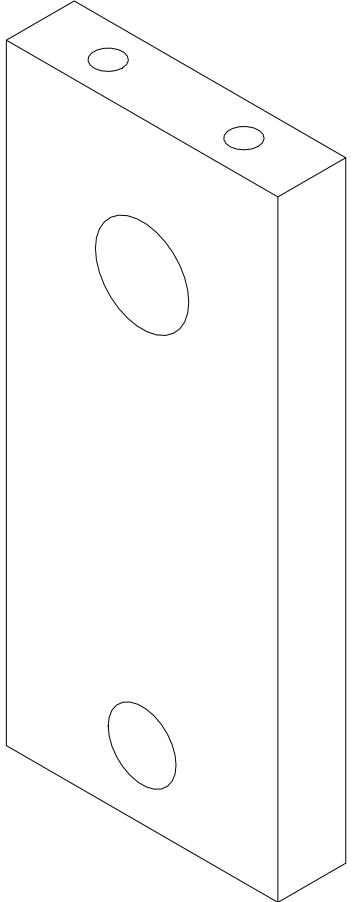
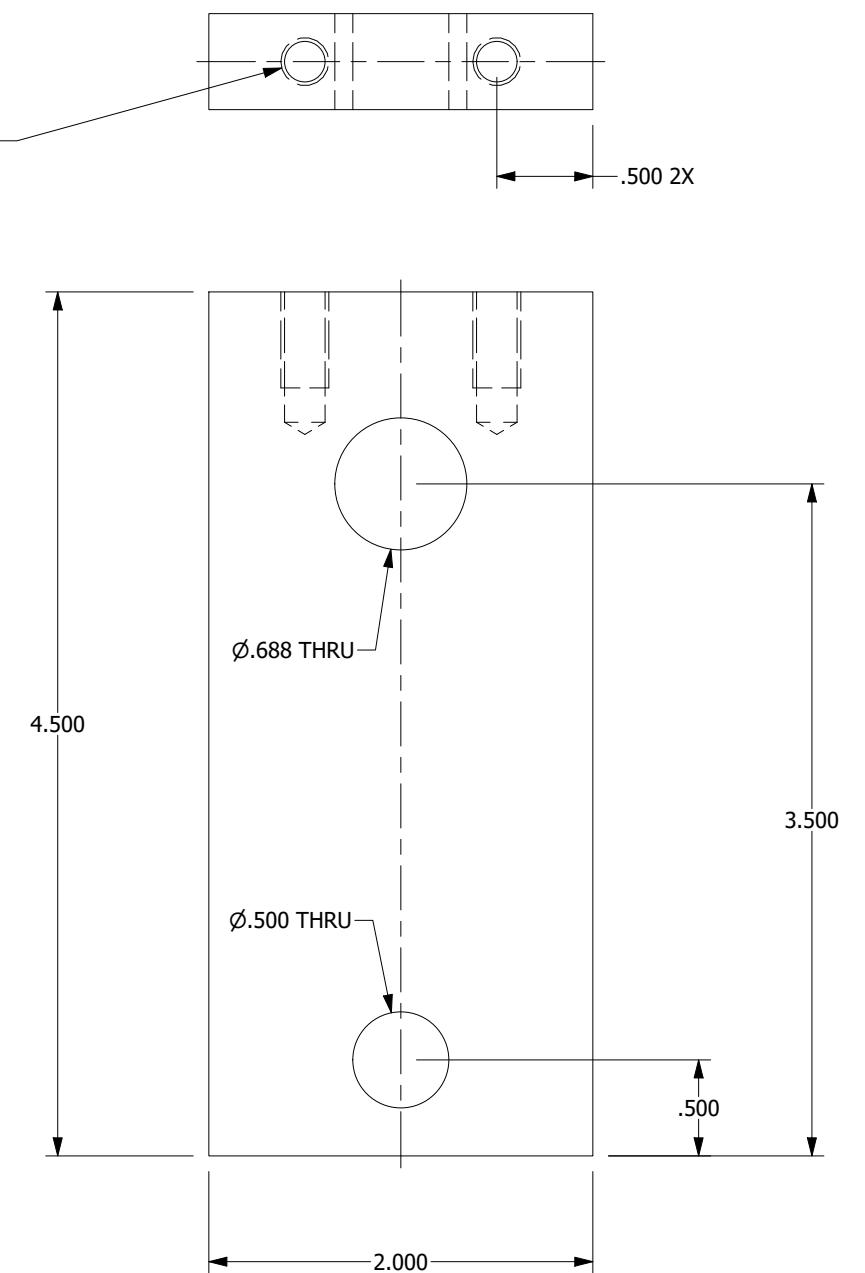
D

C

C

A

A



DRAWING NO. 10-52304 braze fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52304-1-07

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 braze fixture
SCALE: NONE		REV SHEET 8 OF 10

8

7

6

5

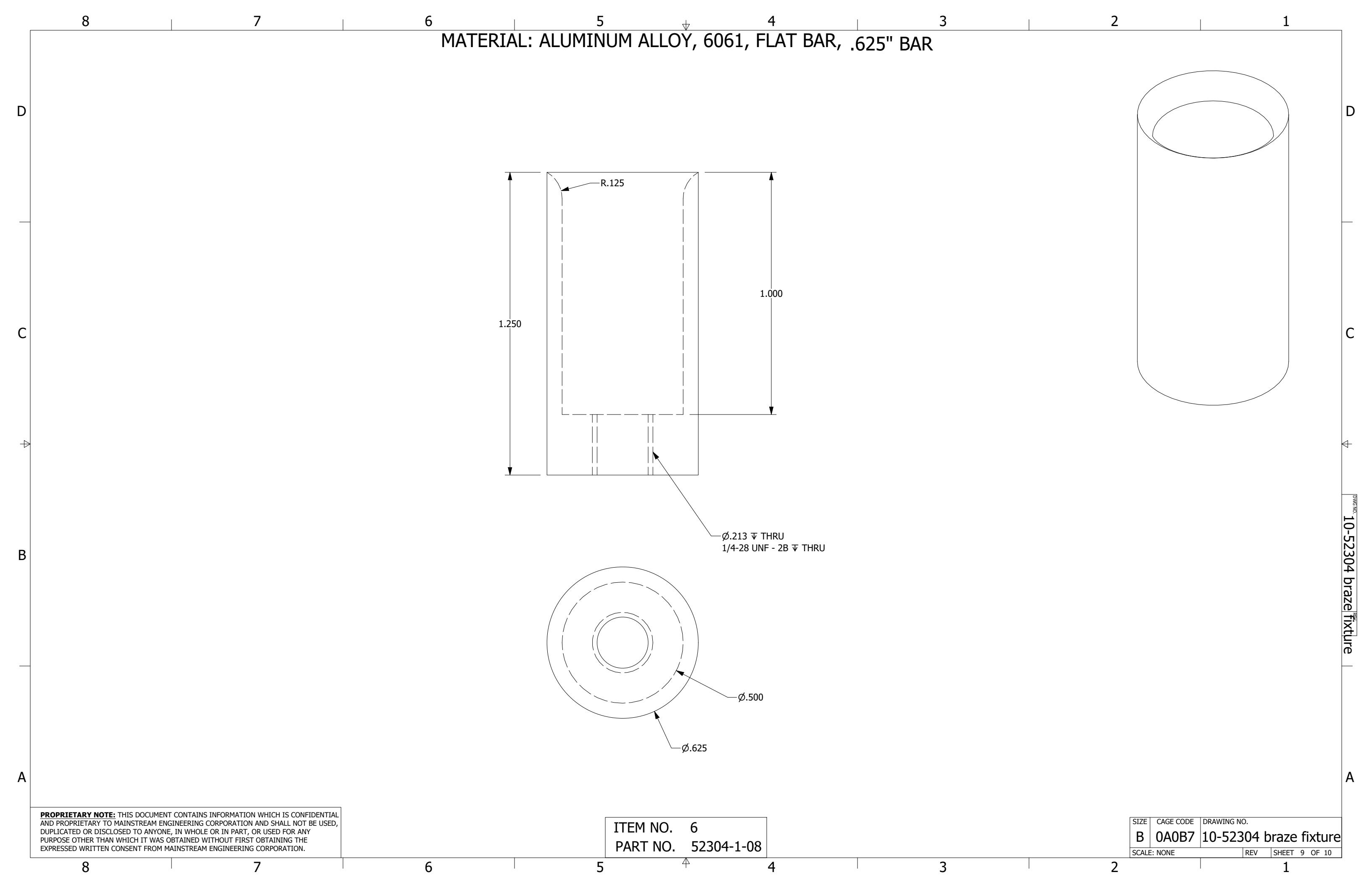
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .625" BAR



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .25" BAR

D

D

C

C

4

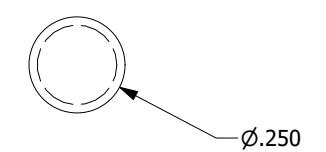
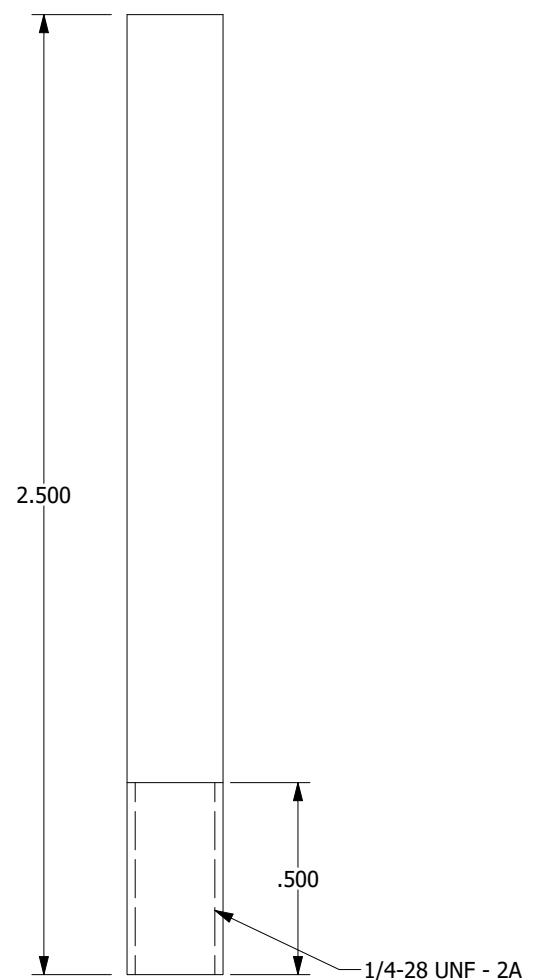
4

B

B

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52304-1-09

SIZE CAGE CODE DRAWING NO.
B 0A0B7 10-52304 braze fixture
SCALE: NONE REV SHEET 10 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

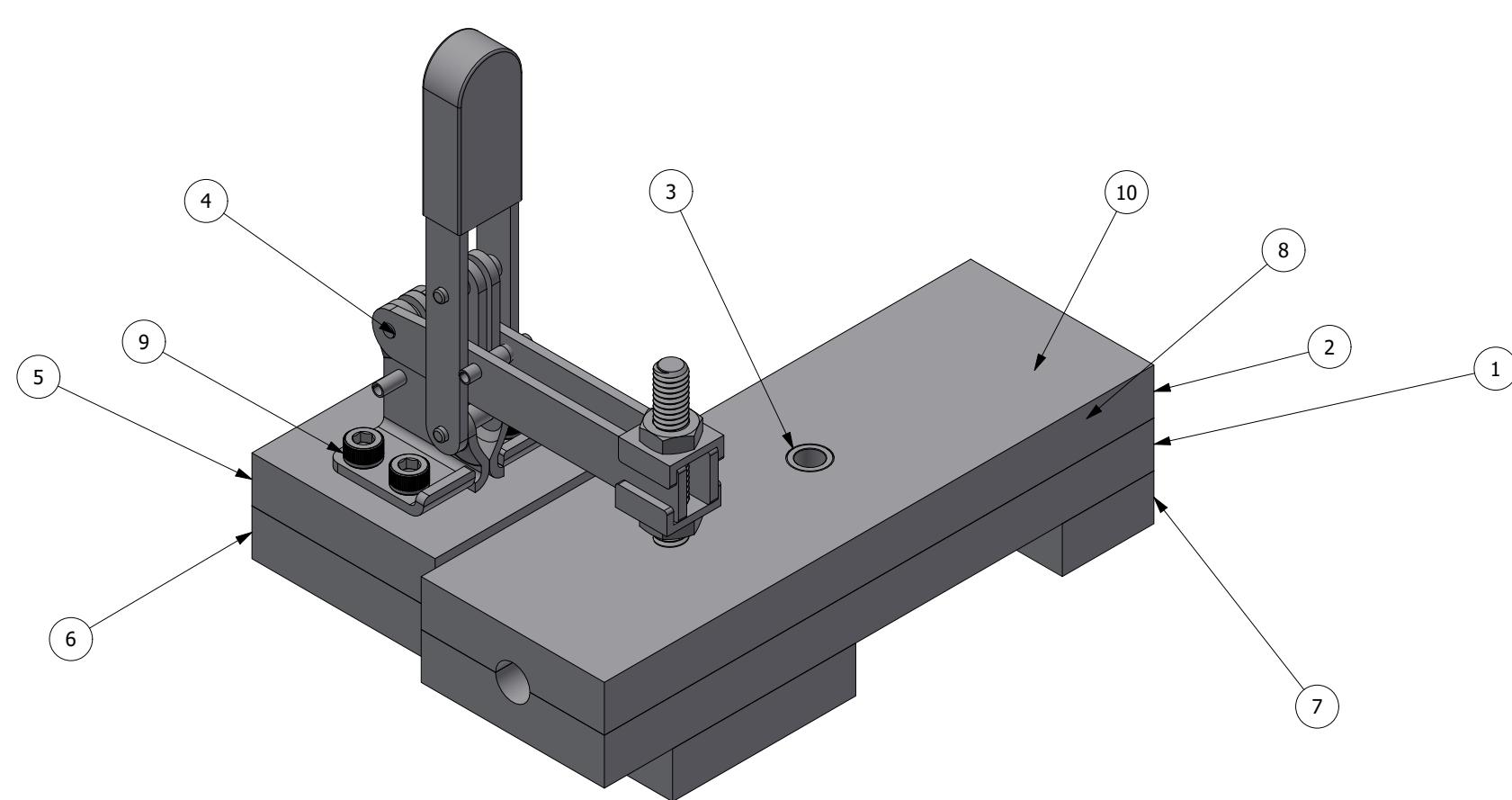
1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
10	10-52304 placeholder pipe	1	Copper tube, .375 OD, length including fitting, post end-forming	
9	90128A947	4	Zinc-Plated Alloy Steel Socket Head Screw	
8	90128A363	6	Zinc-Plated Alloy Steel Socket Head Screw	
7	52304-2-04	1	leveling plate	
6	52304-2-02	1	clamp connector plate	
5	52304-2-01	1	clamp riser	
4	5126A71	1	Hold Down Toggle Clamp	
3	8491A099	1	Press-Fit Drill Bushing	
2	52304-2-05	1	Top mold	
1	52304-2-03	1	Base mold	

PARTS LIST		
	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES X ± 1° 1 PLACE DIM. X ± .1 2 PLACE DIM. X ± .01 3 PLACE DIM. X ± .005	CONTRACT NO. DATE DRAWN B. VILLANUEVA 10/29/2023 CHECKED
		DATE B. VILLANUEVA 10/29/2023
		MECHANICAL ELECTRICAL
		OPERATIONS B. BLACH
		APPROVED G. COLE

DRAWING NO. 10-52304 drill fixture

SIZE CAGE CODE DRAWING NO.

B 0A0B7 10-52304 drill fixture

SCALE: NONE UNIT WT. REV SHEET 1 OF 6

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7 6 5 4 3 2 1

8 7

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" x .5"

D

D

C

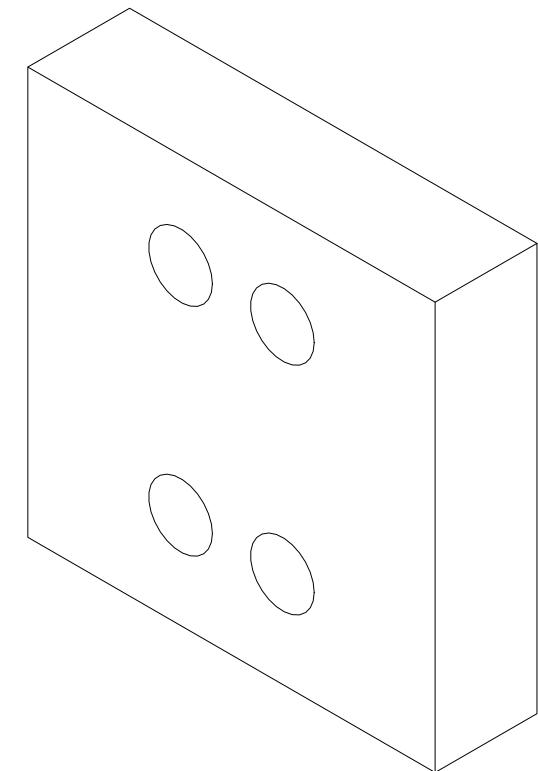
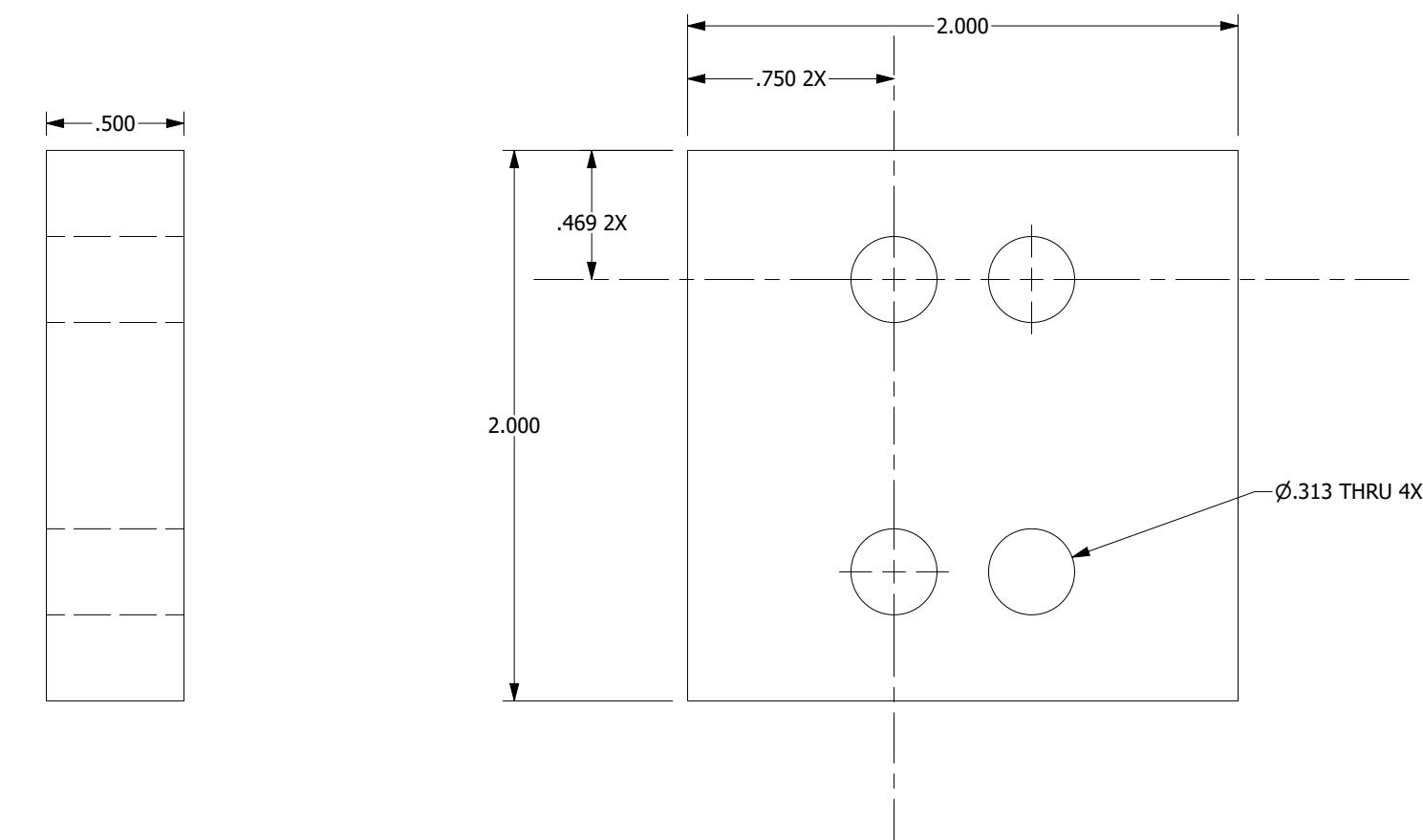
C

B

B

A

A



DRAWING NO. 10-52304 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52304-2-01

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52304 drill fixture
SCALE: NONE		REV SHEET 2 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

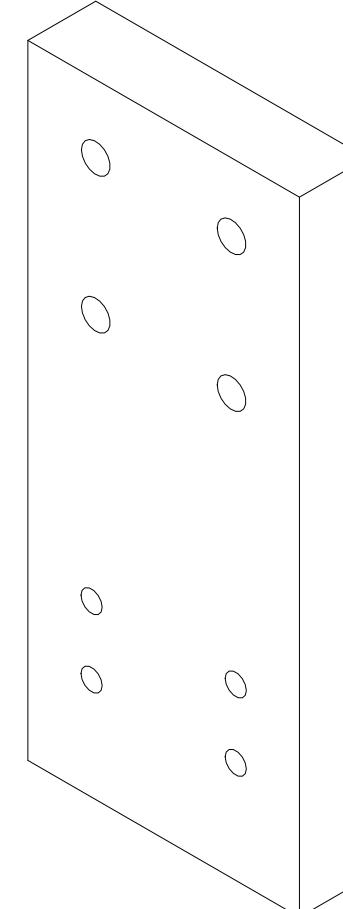
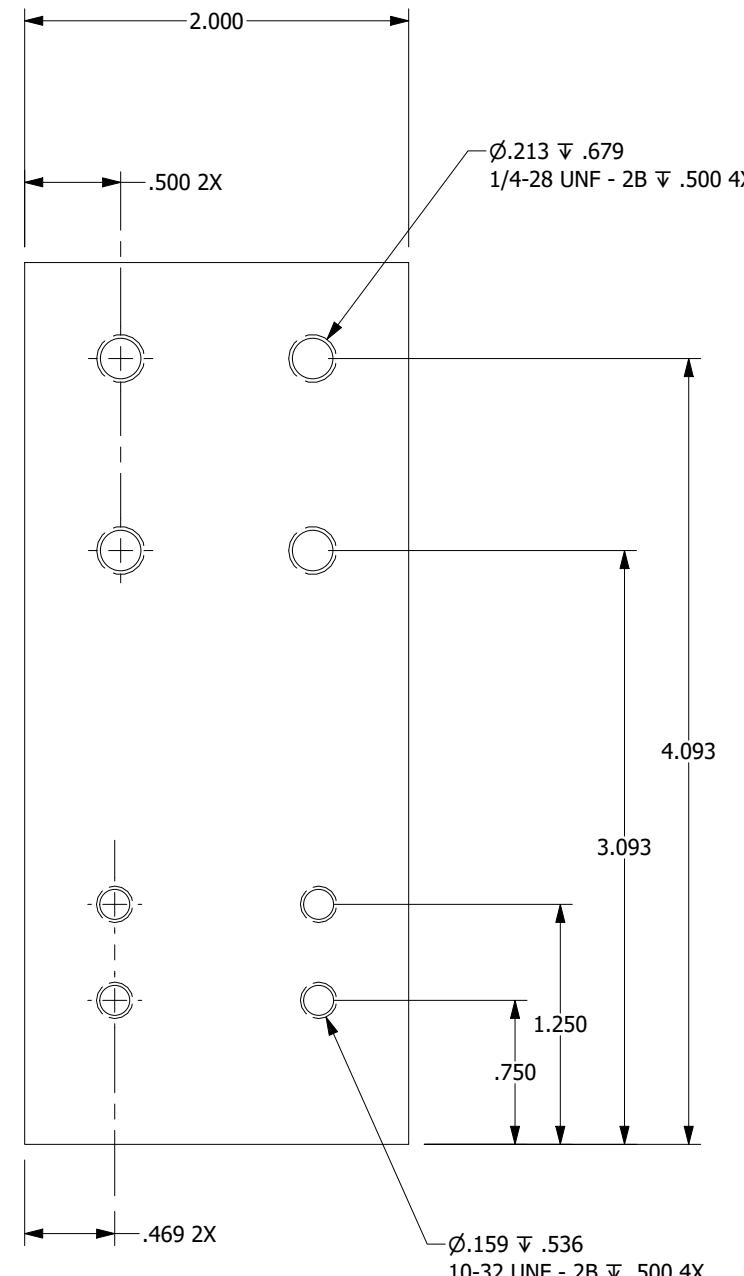
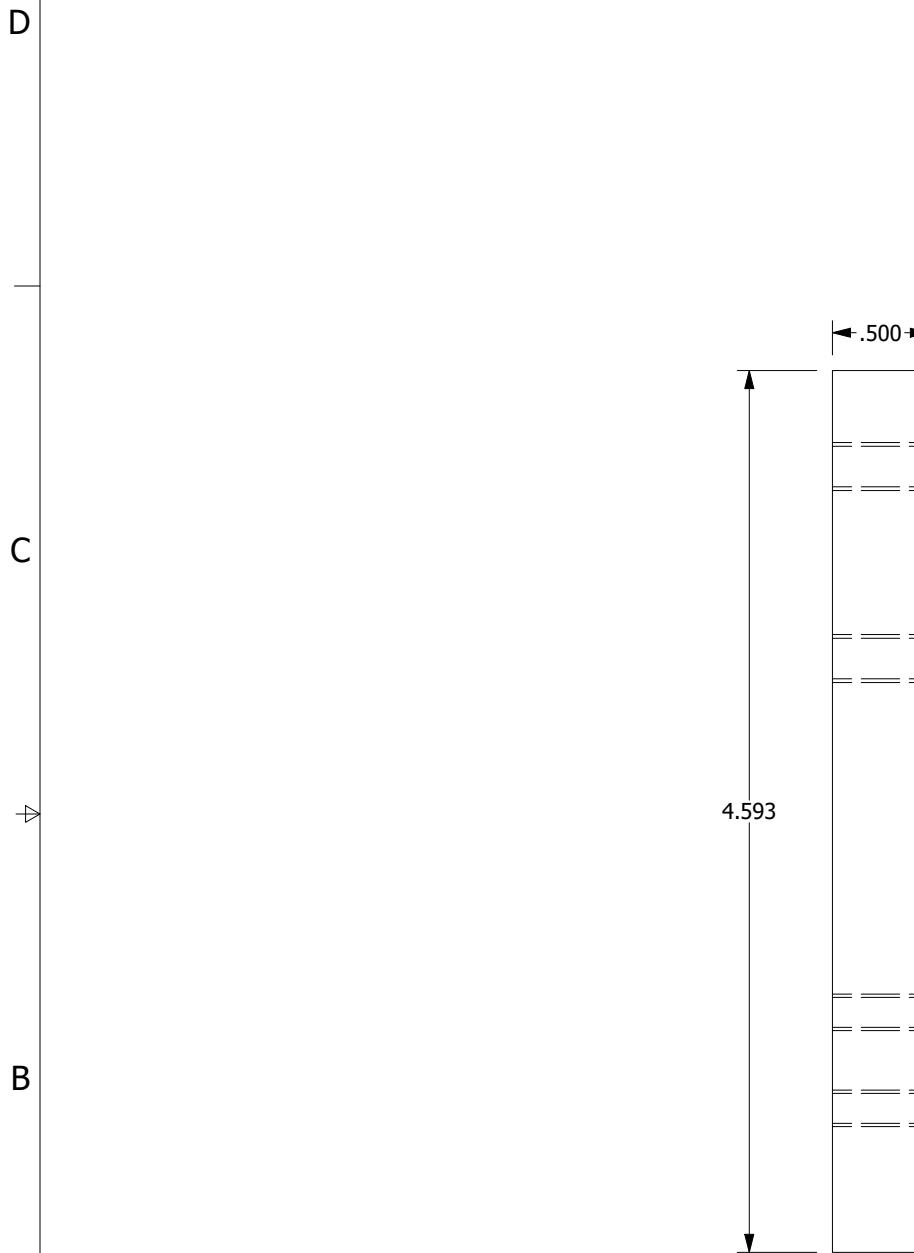
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52304 drill fixture

REV B

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52304-2-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 drill fixture
SCALE: NONE		REV
		SHEET 3 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

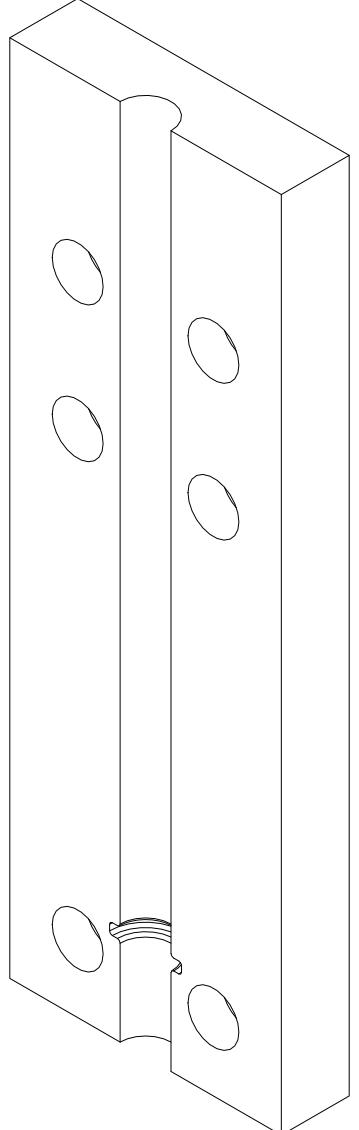
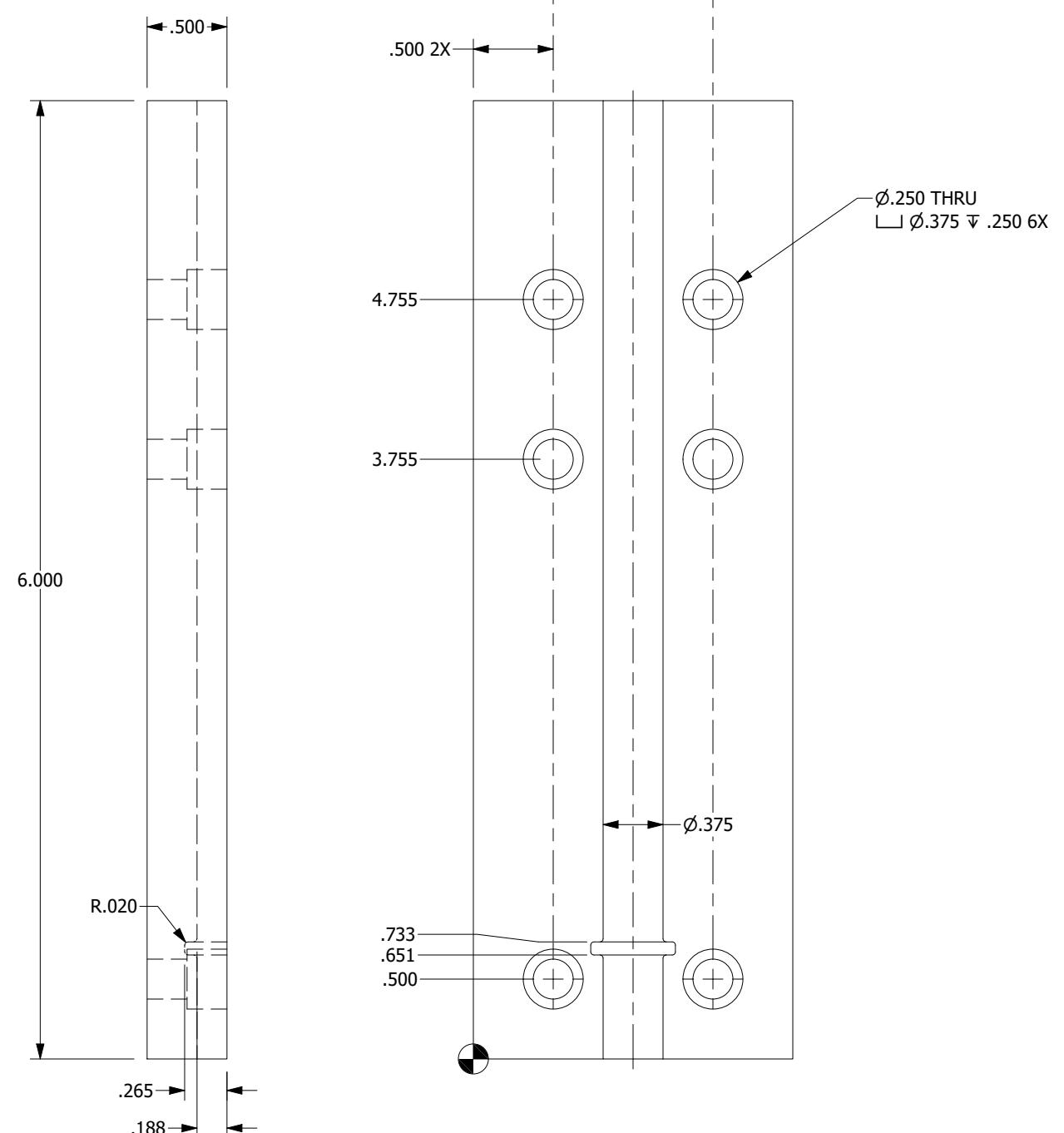
D

C

C

A

A



DRAWING NO. 10-52304 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52304-2-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52304 drill fixture
SCALE: NONE		REV SHEET 4 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

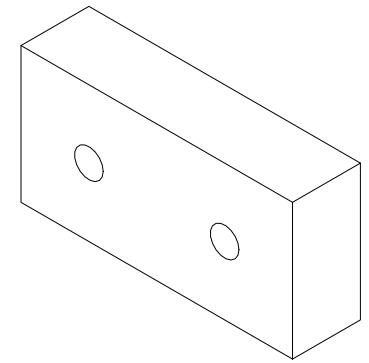
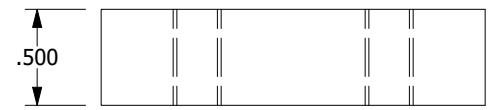
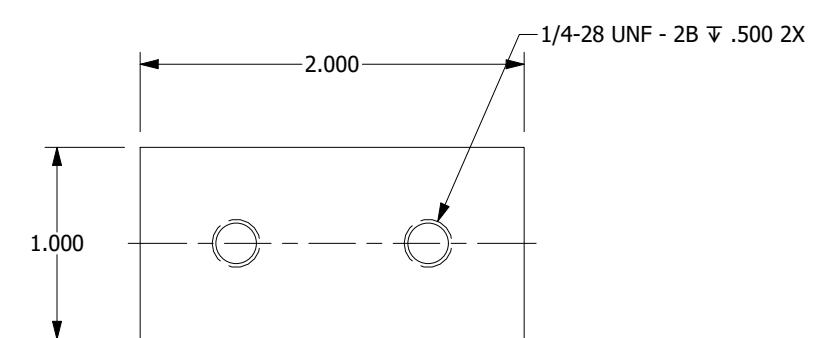
D

C

C

A

A

DRAWING NO. 10-52304 drill fixture
REV B

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52304-2-04

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52304 drill fixture
SCALE: NONE		REV
		SHEET 5 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

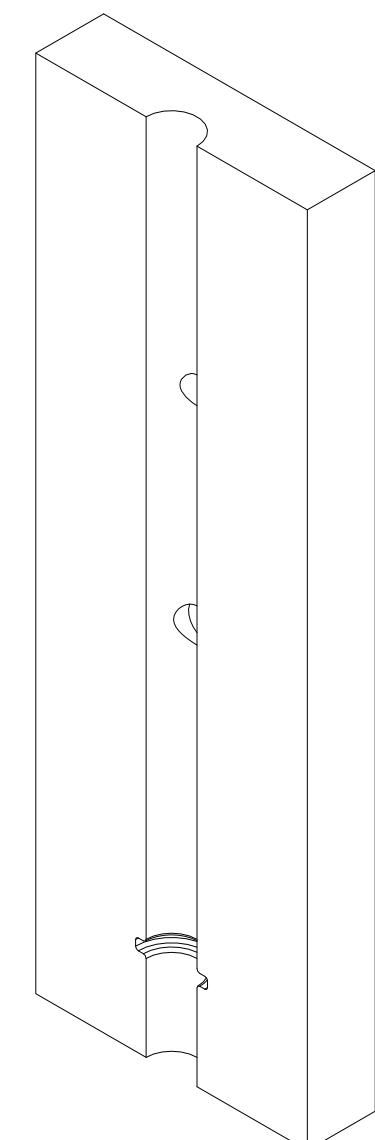
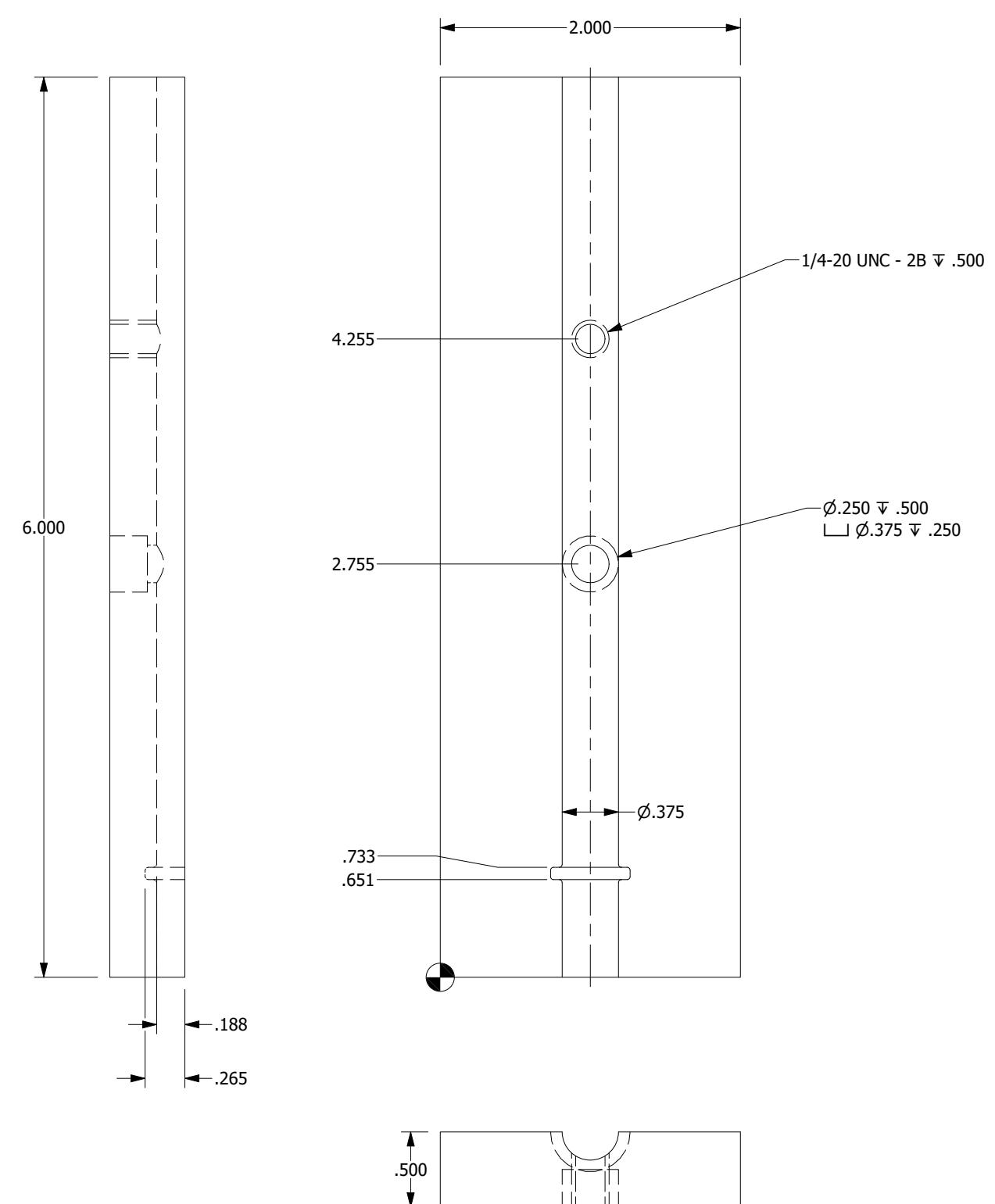
D

C

C

A

A



DRAWING NO. 10-52304 drill fixture
REV B

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52304-2-05

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52304 drill fixture
SCALE: NONE		REV
		SHEET 6 OF 6

8

7

6

5

4

3

2

1

8

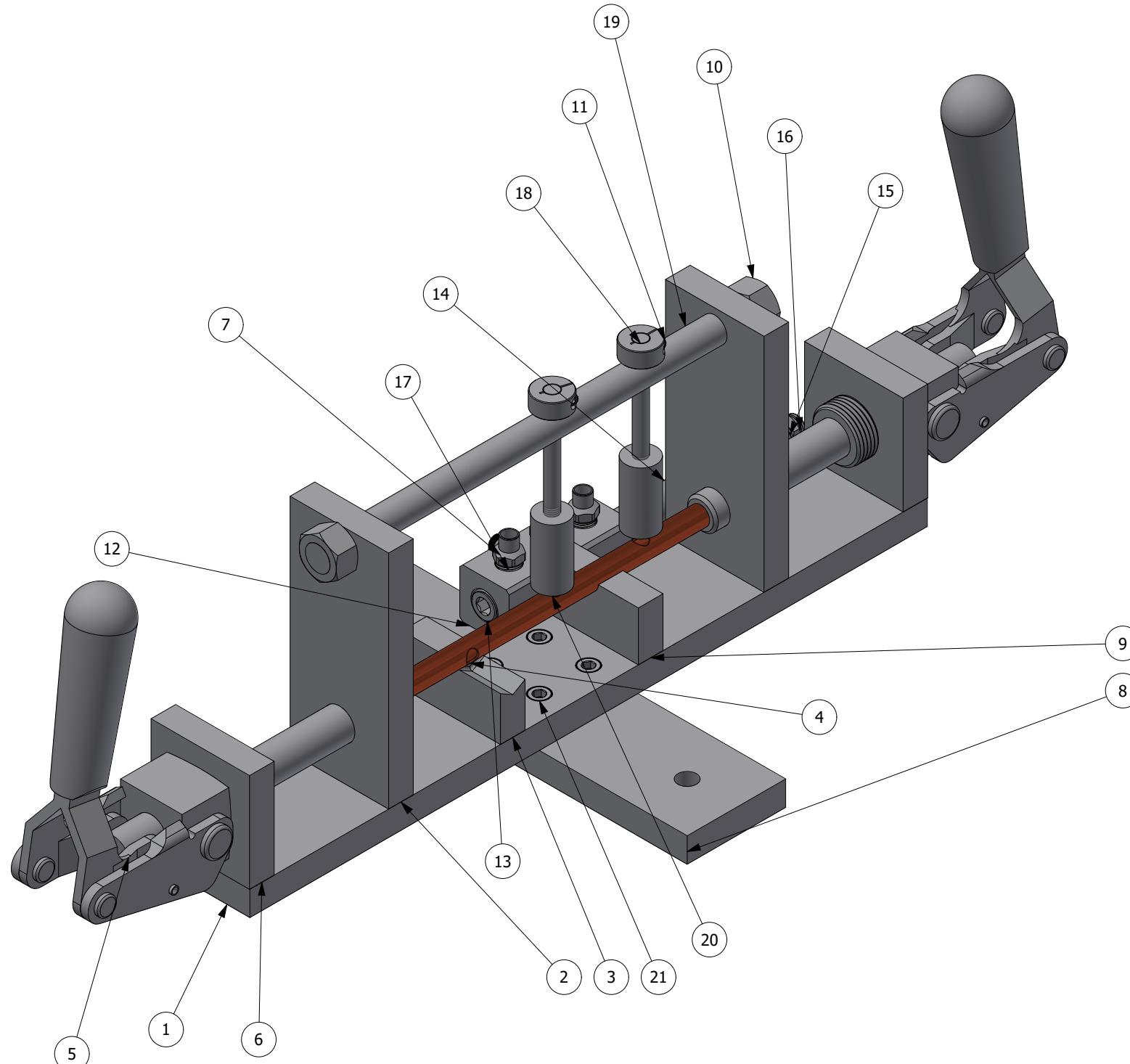
-

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

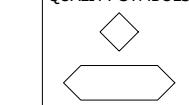
NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.10.
 2. REMOVE ALL BURRS AND SHARP EDGES.



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

QUALITY SYMBOLS



DENOTES CRITICAL
INSPECTION

1 52307-1-02 1 base

ITEM	PART NUMBER	QTY	NOMI
------	-------------	-----	------

PAR

UNLESS OTHERWISE SPECIFIED: CONTRACT N

DIMENSIONS ARE IN INCHES
TOLERANCES

ANGELES X ± .1 DRAWN
1 PLACE DIM. X ± .1 B. VILLANUEVA

QUALITY SYMBOLS 2 PLACE DIM. X ± .01
 2 PLACE DIM. X ± .025

B. VILLANUEVA

ELECTRICAL

OPERATIONS
DRAFT

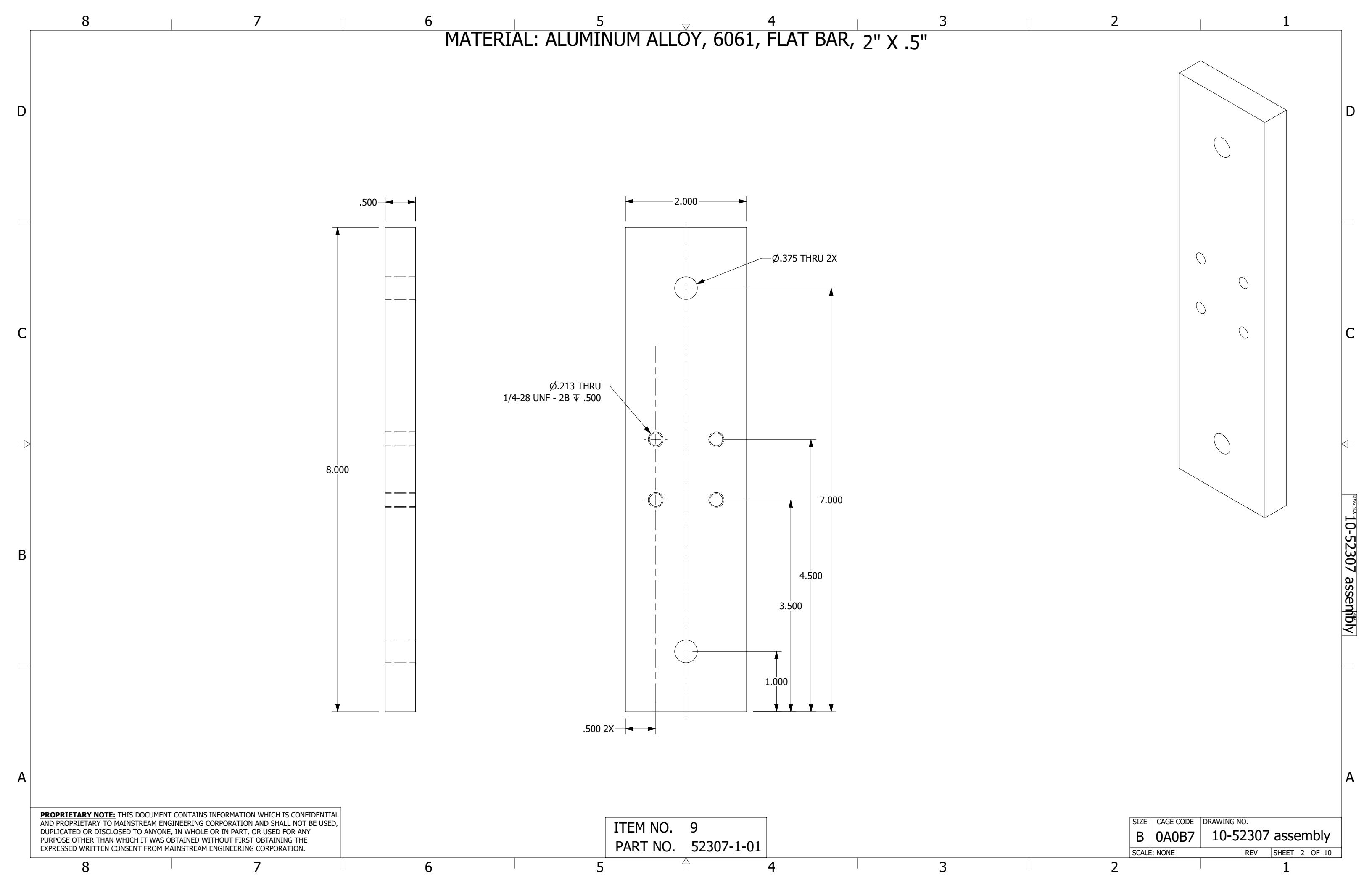
DENOTES CRITICAL NEXT ASSY USED ON D. BLACH
APPROVED

INSPECTION APPLICATION THIRD ANGLE PROJECTION G. COLE

Solutions Through Advanced Technology
MAINSTREAM

SIZE	CAGE CODE	DRAWING NO.				
B	0A0B7	10-52307 braze fixture				
SCALE: NONE	UNIT WT.	REV	SHEET	1	OF	10

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

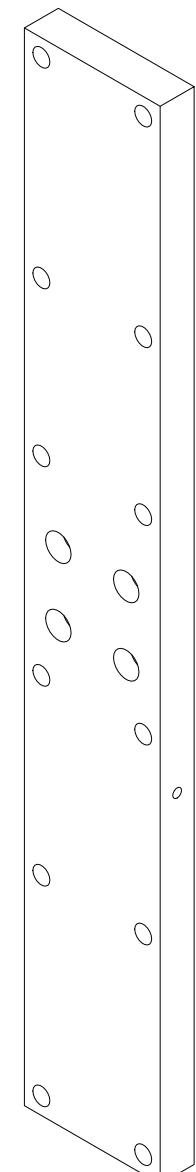
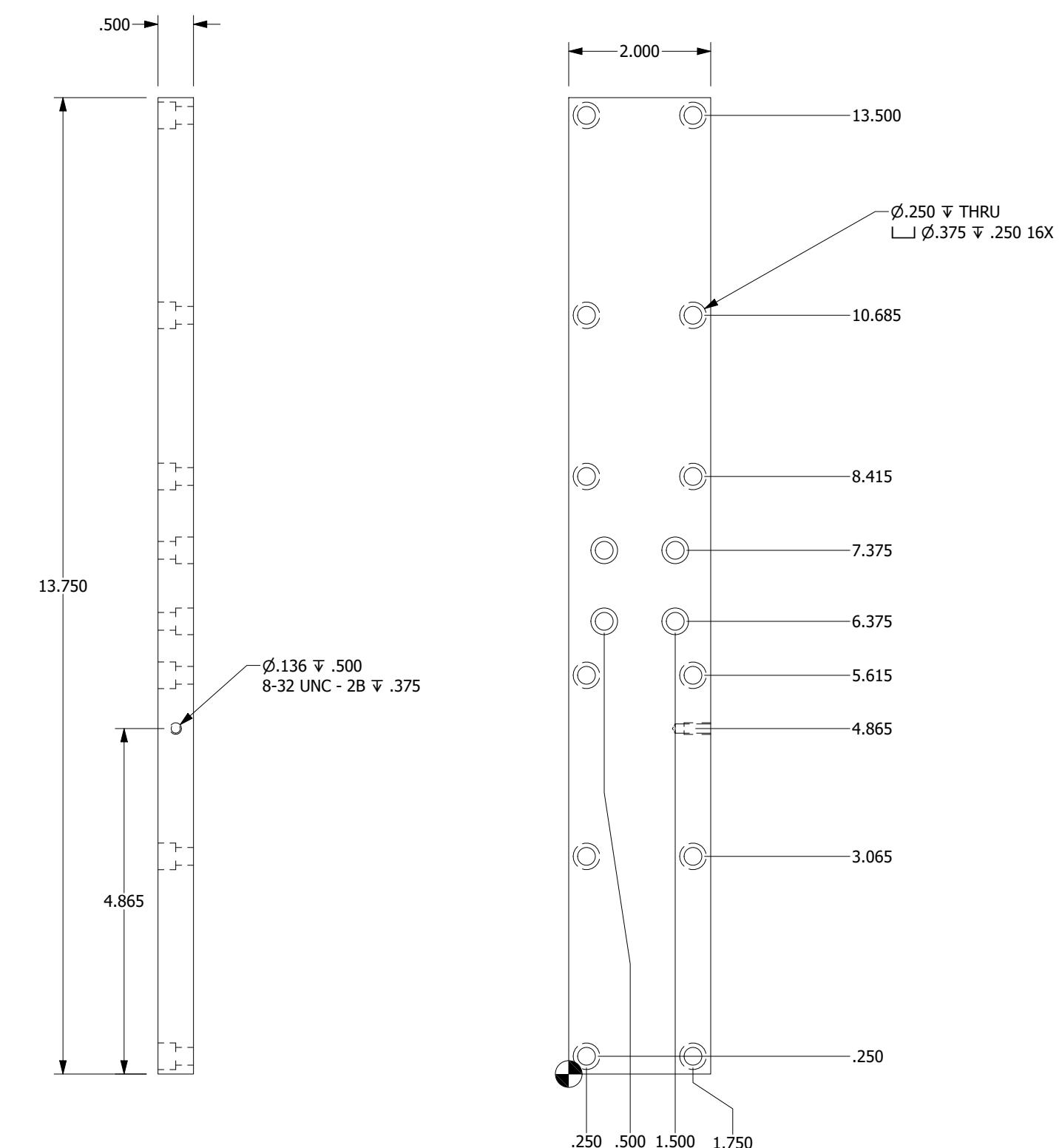
D

C

C

A

A



DRAWING NO. 10-52307 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52307-1-02

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE		REV SHEET 3 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

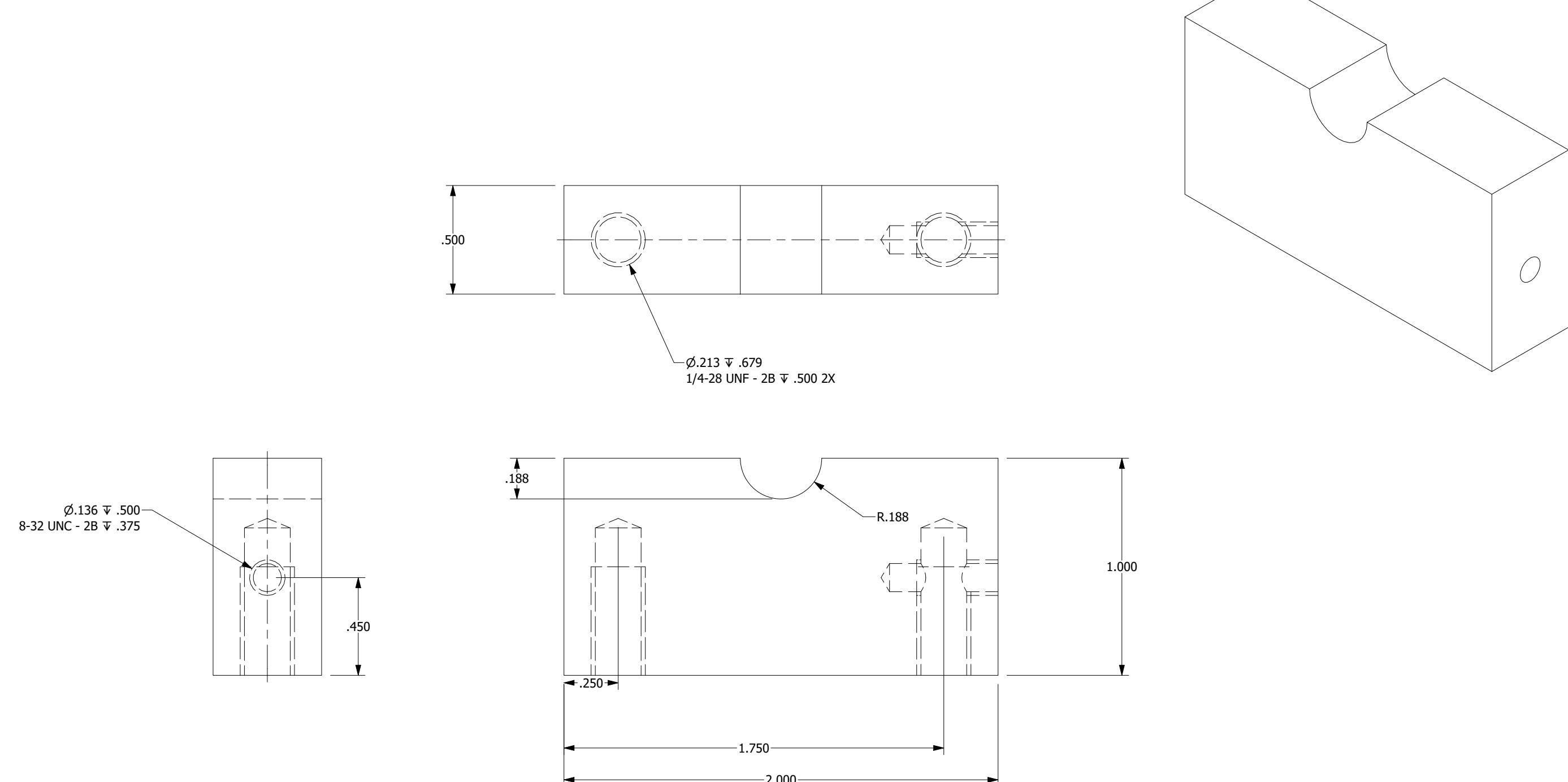
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52307 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52307-1-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52307 assembly
SCALE: NONE		REV
		SHEET 4 OF 10

8

7

6

5

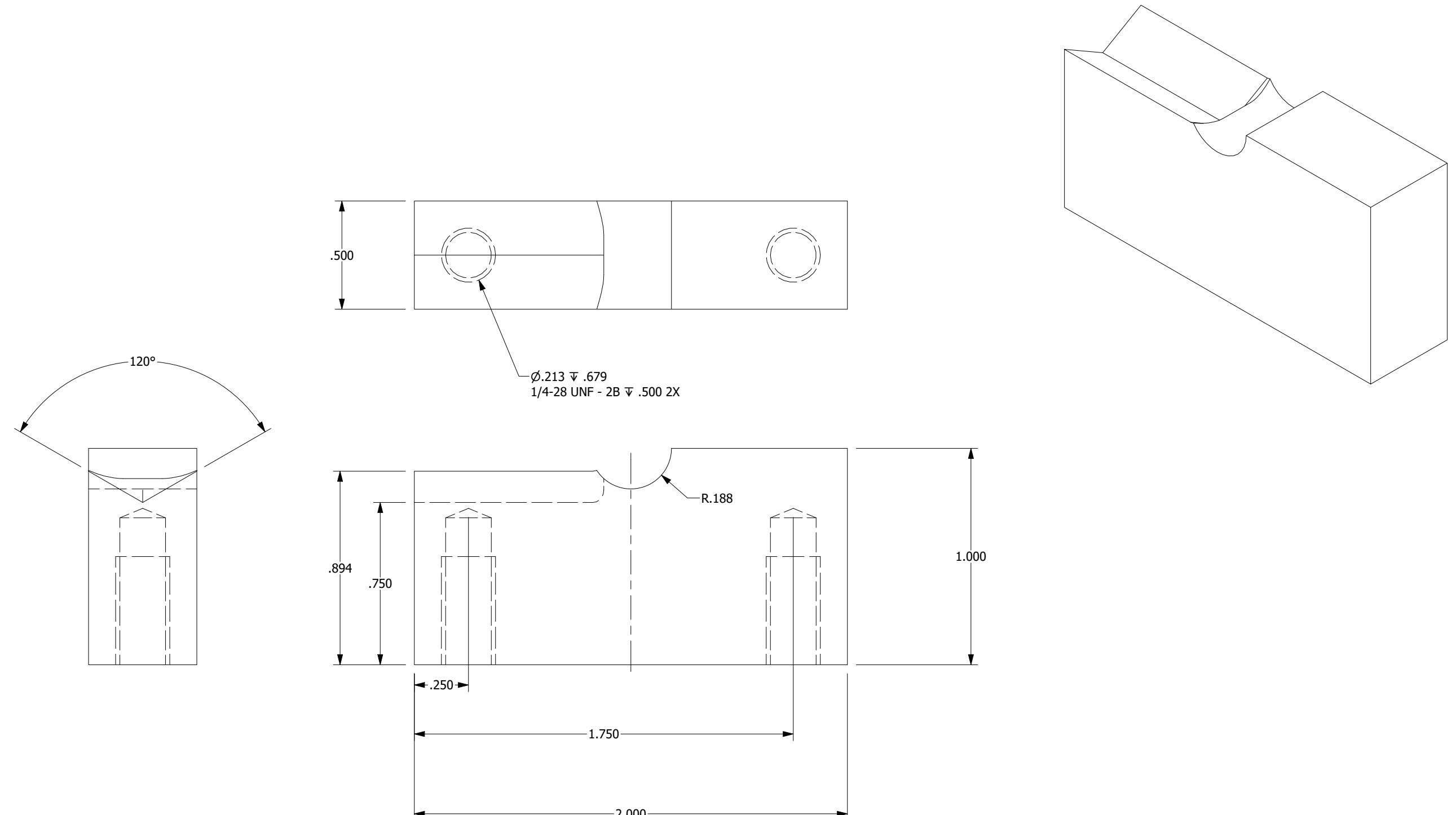
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

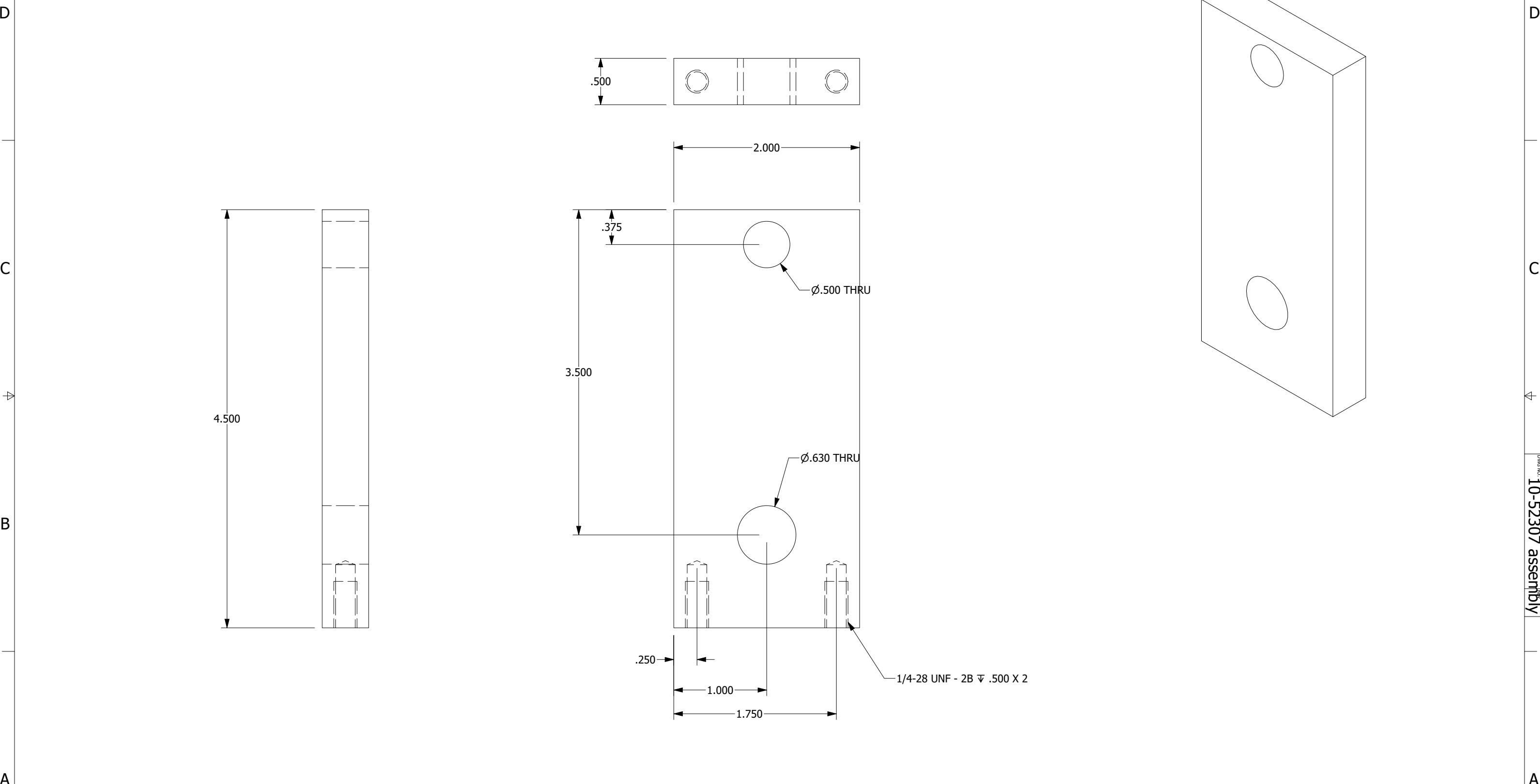


PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52307-1-04

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE		REV SHEET 5 OF 10

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52307-1-05

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE	REV	SHEET 6 OF 10

8

7

6

5

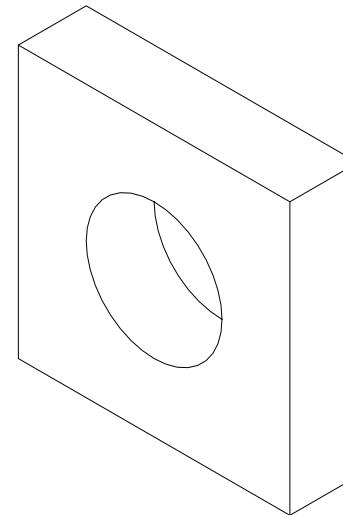
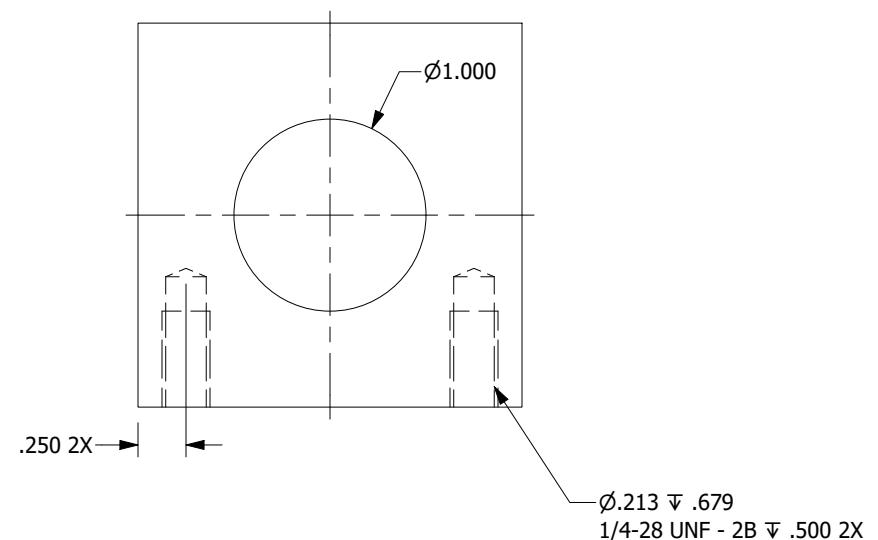
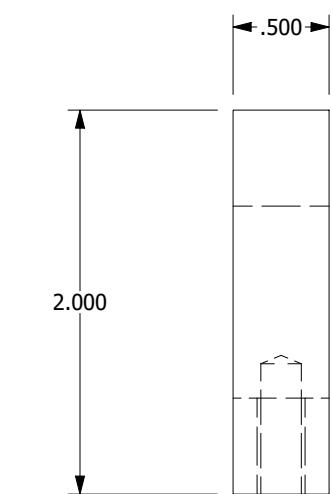
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52307 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52307-1-06

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE	REV	SHEET 7 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .625" ROD

D

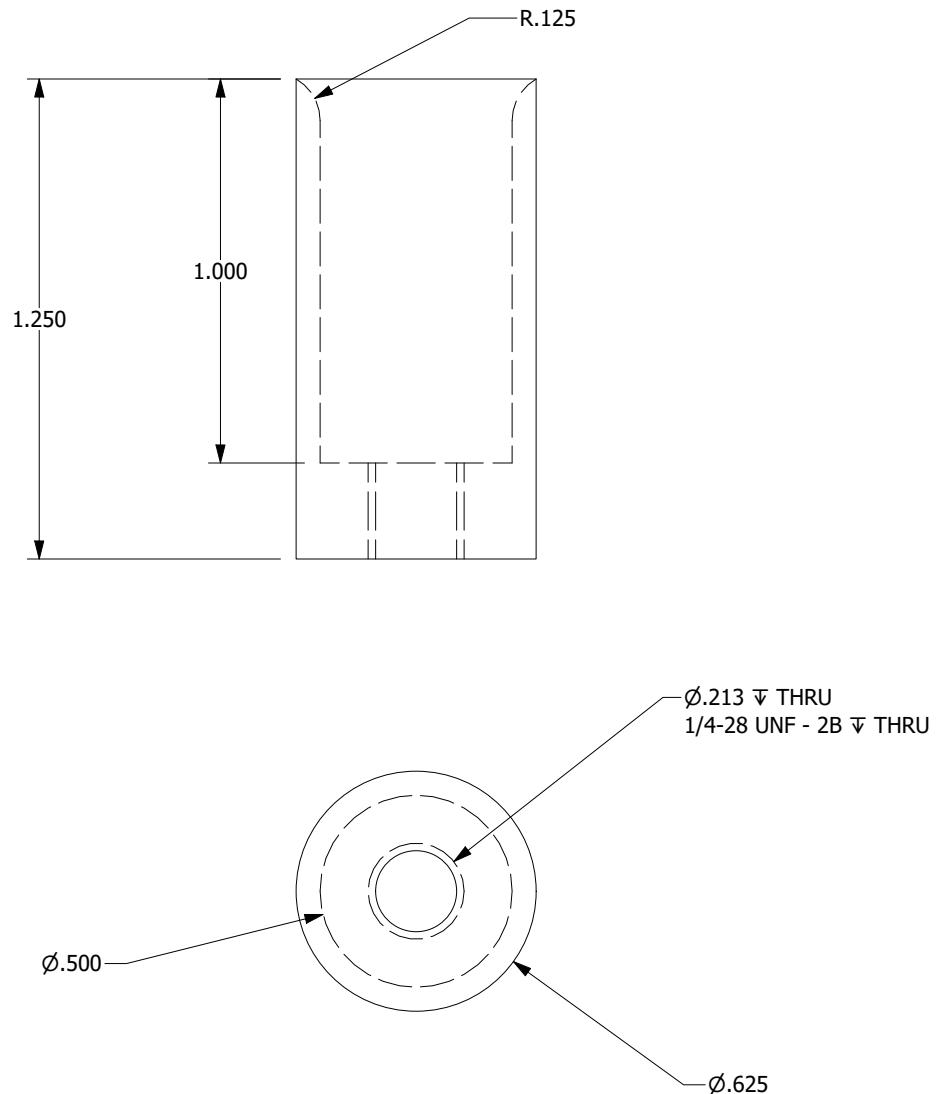
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 20
PART NO. 52307-1-07

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE		REV SHEET 8 OF 10

8

7

6

5

4

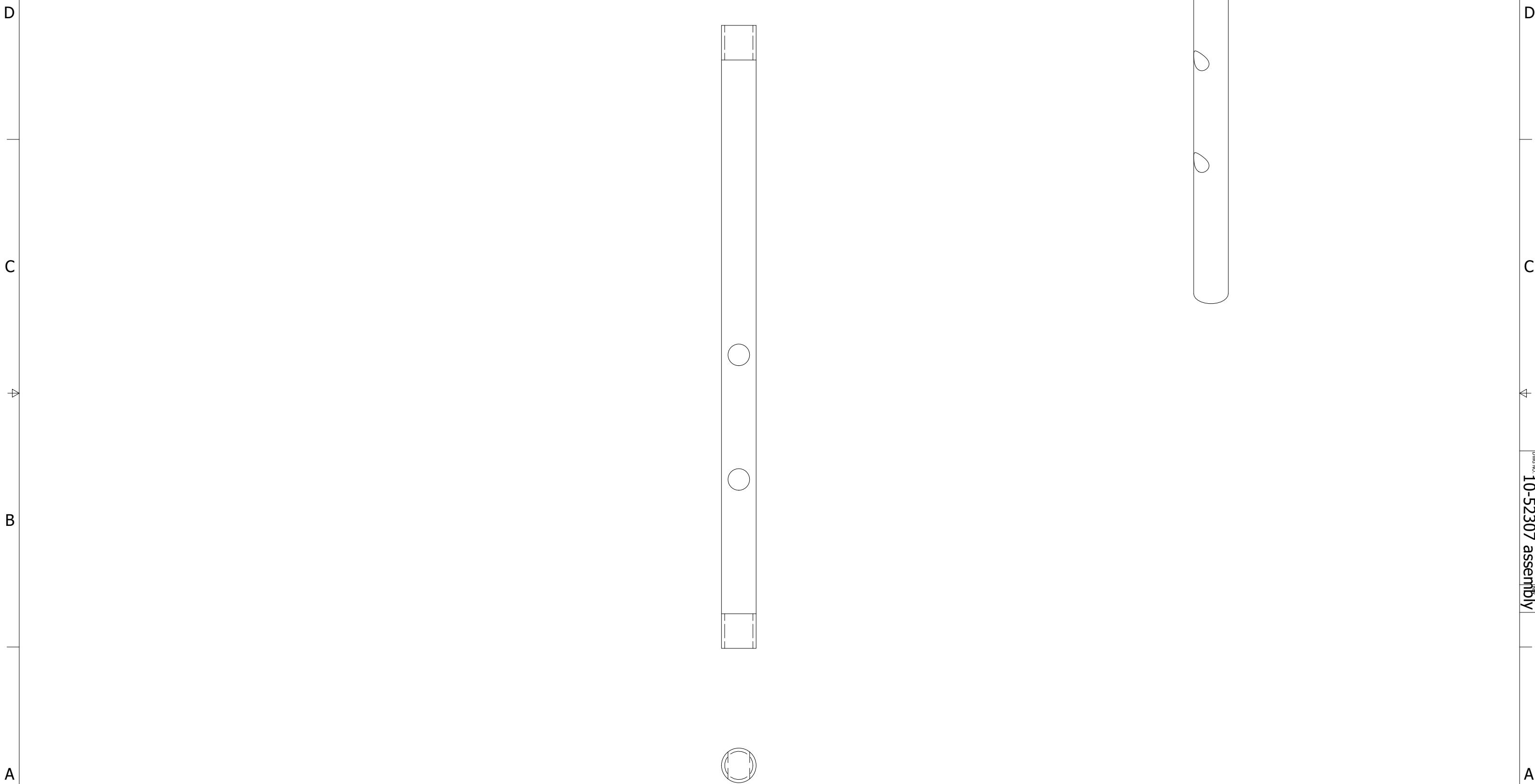
3

2

1

A

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .25" rod



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 19
PART NO. 52307-1-08

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE	REV	SHEET 9 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, .25" rod

D

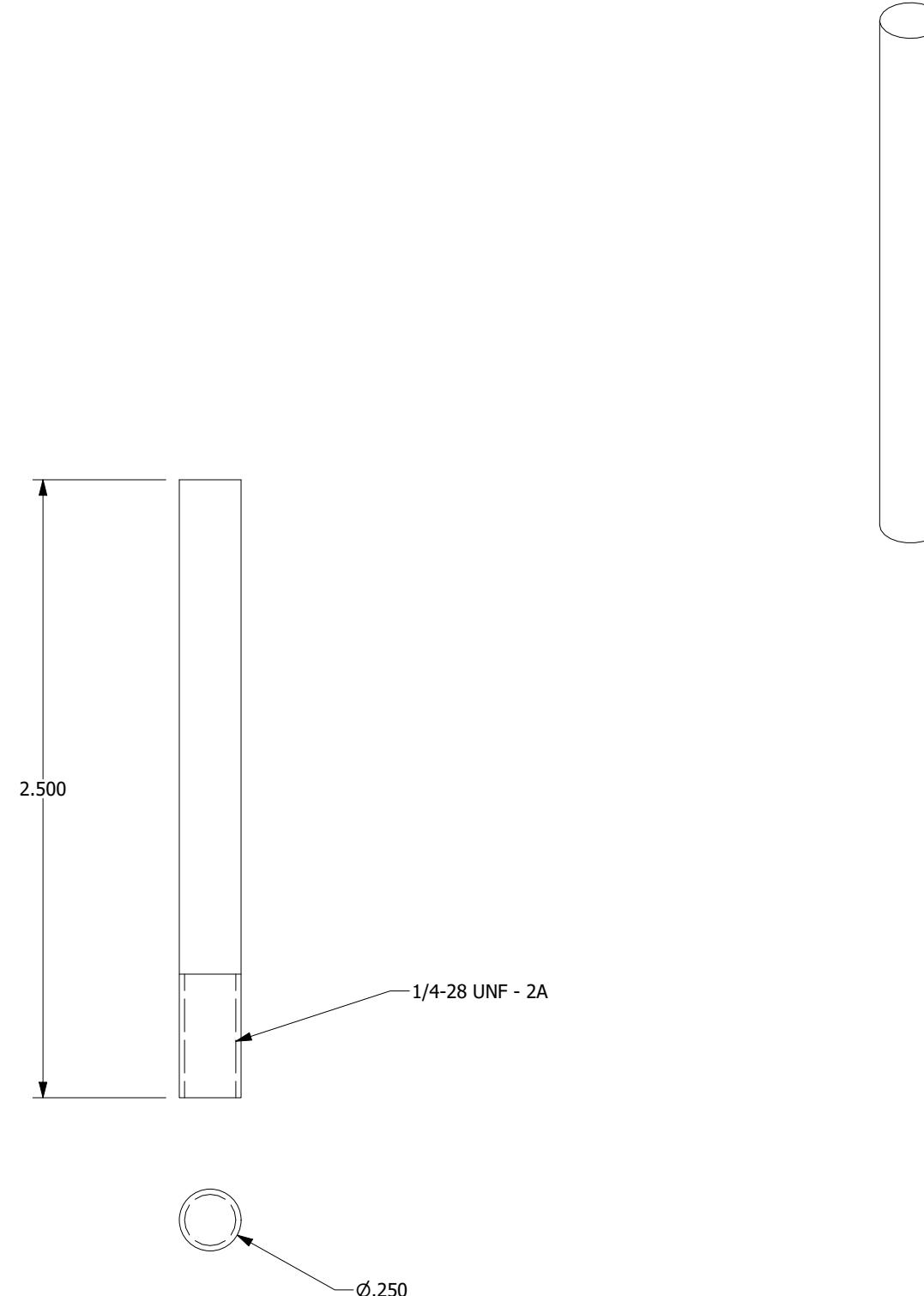
D

C

C

A

A



DRAWING NO. 10-52307 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 18
PART NO. 52307-1-09

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52307 assembly
SCALE: NONE	REV	SHEET 10 OF 10

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

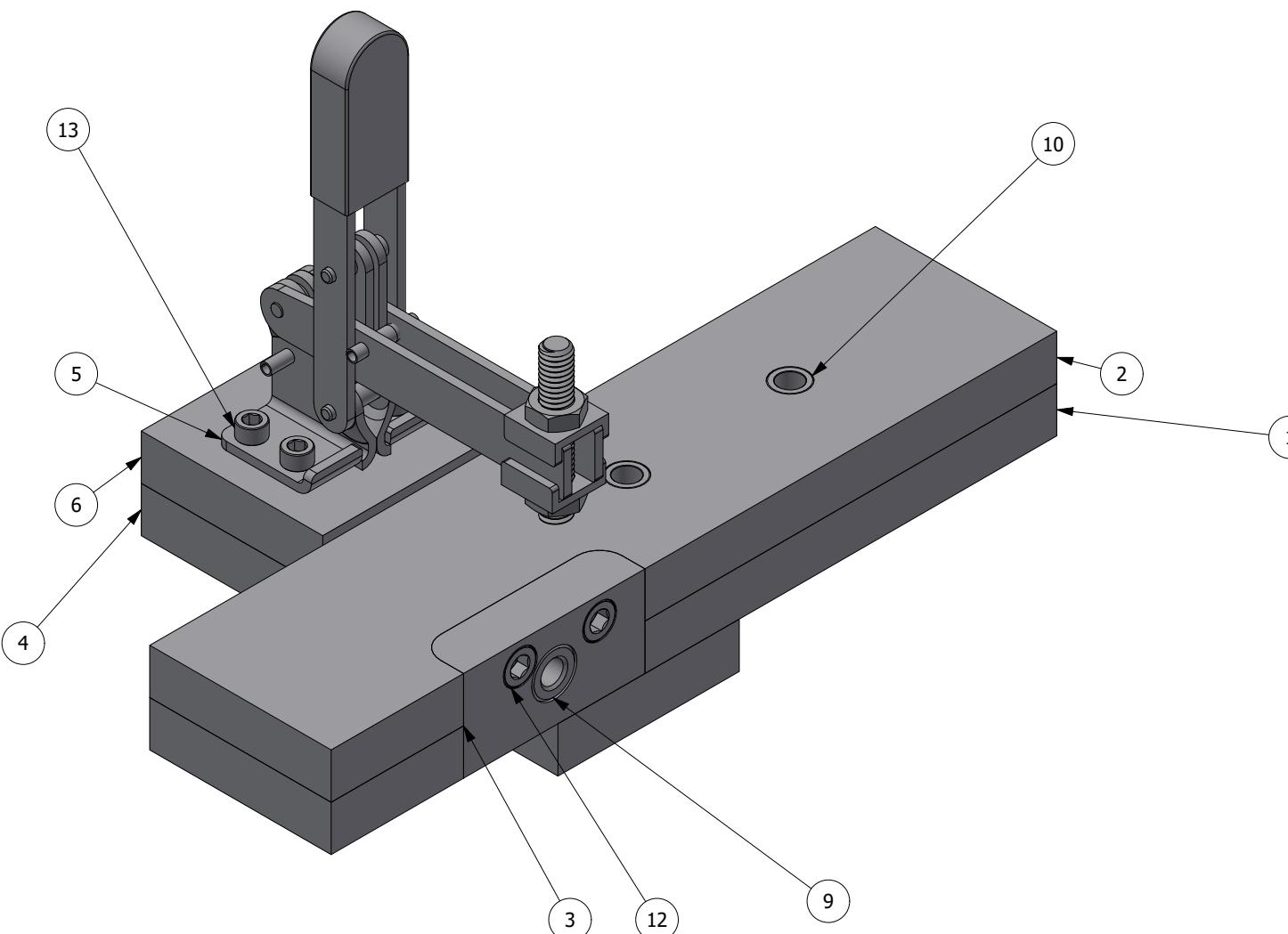
1

NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
2. REMOVE ALL BURRS AND SHARP EDGES.

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC



ITEM	PART NUMBER	QTY	NOMENCLATURE OR DESCRIPTION	SPECIFICATION
PARTS LIST				
ITEM				
13	91274A072	4	Zinc-Aluminum-Coated Alloy Steel Socket Head Screw	
12	90128A363	2	Zinc-Plated Alloy Steel Socket Head Screw	
11	91274A179	3	Zinc-Aluminum-Coated Alloy Steel Socket Head Screw	
10	8491A099	2	Press-Fit Drill Bushing	
9	8492A066	1	Press-Fit Drill Bushing with Head	
8	IMACA fitting	1	*not a part, only in CAD*	
7	10-52307 placeholder pipe	1	Copper tube, .375 OD, post end-forming	
6	52307-2-01	1	clamp riser	
5	5126A71	1	Hold-Down Toggle Clamp	
4	52307-2-02	1	base	
3	52307-2-04	1	perpendicular drill piece	
2	52307-2-05	1	Top mold	
1	52307-2-03	1	Bottom mold	

QUALITY SYMBOLS
 DENOTES CRITICAL INSPECTION

NEXT ASSY USED ON APPLICATION

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES		CONTRACT NO.
TOLERANCES:		
ANGLES	X ± 1°	
1 PLACE DIM.	X ± .1	DRAWN B. VILLANUEVA 10/23/2023
2 PLACE DIM.	X ± .01	CHECKED
3 PLACE DIM.	X ± .005	
		MECHANICAL B. VILLANUEVA 10/23/2023
		ELECTRICAL
		OPERATIONS B. BLACH
		APPROVED G. COLE
THIRD ANGLE PROJECTION		

Solutions Through Advanced Technology
MAINSTREAM
ENGINEERING

SIZE CAGE CODE DRAWING NO.
B 0A0B 10-52307 drill fixture assembly
SCALE: NONE UNIT WT. REV SHEET 1 OF 6

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

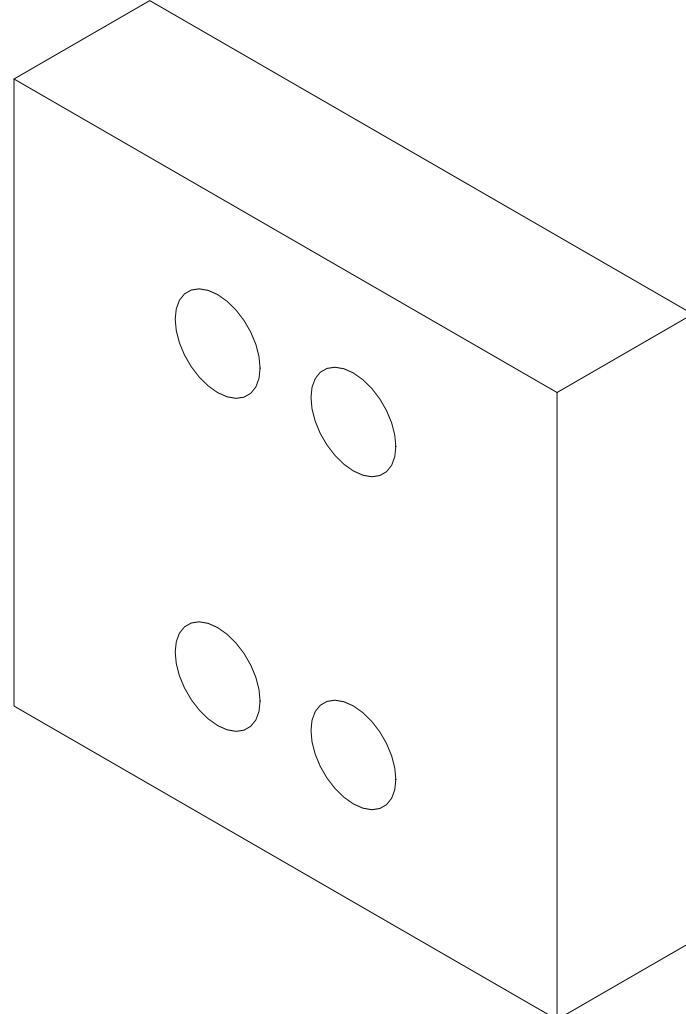
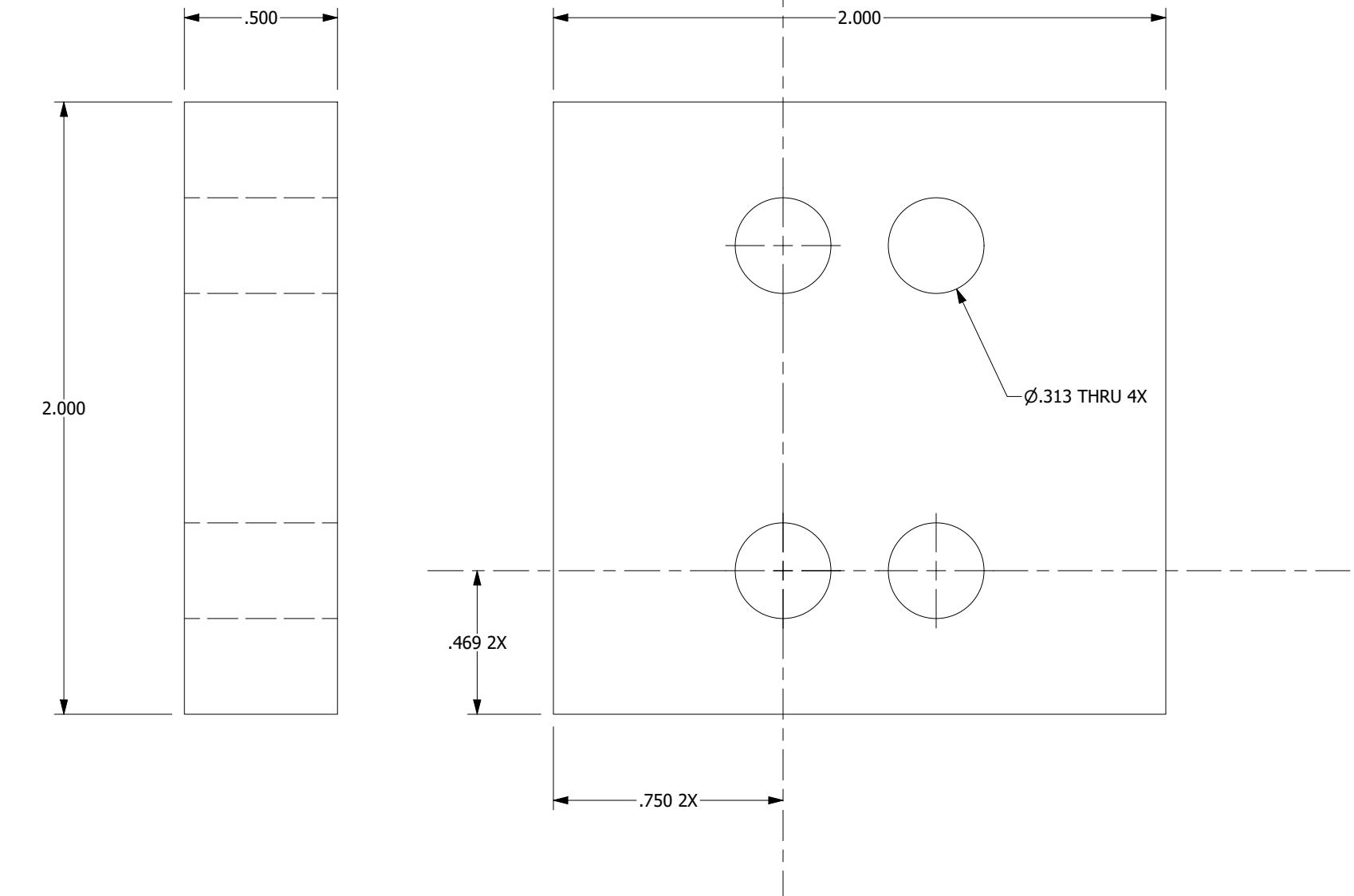
D

C

C

A

A



DRAWING NO. 10-52307 drill fixture assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 6
PART NO. 52307-2-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B	10-52307 drill fixture assembly
SCALE: NONE		REV SHEET 2 OF 6

8

7

6

5

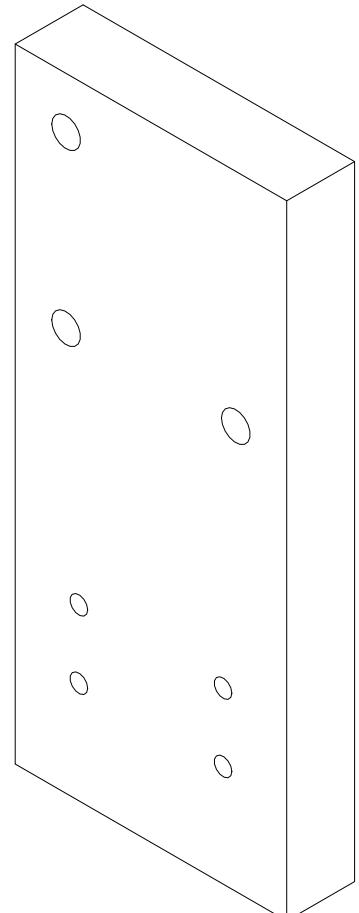
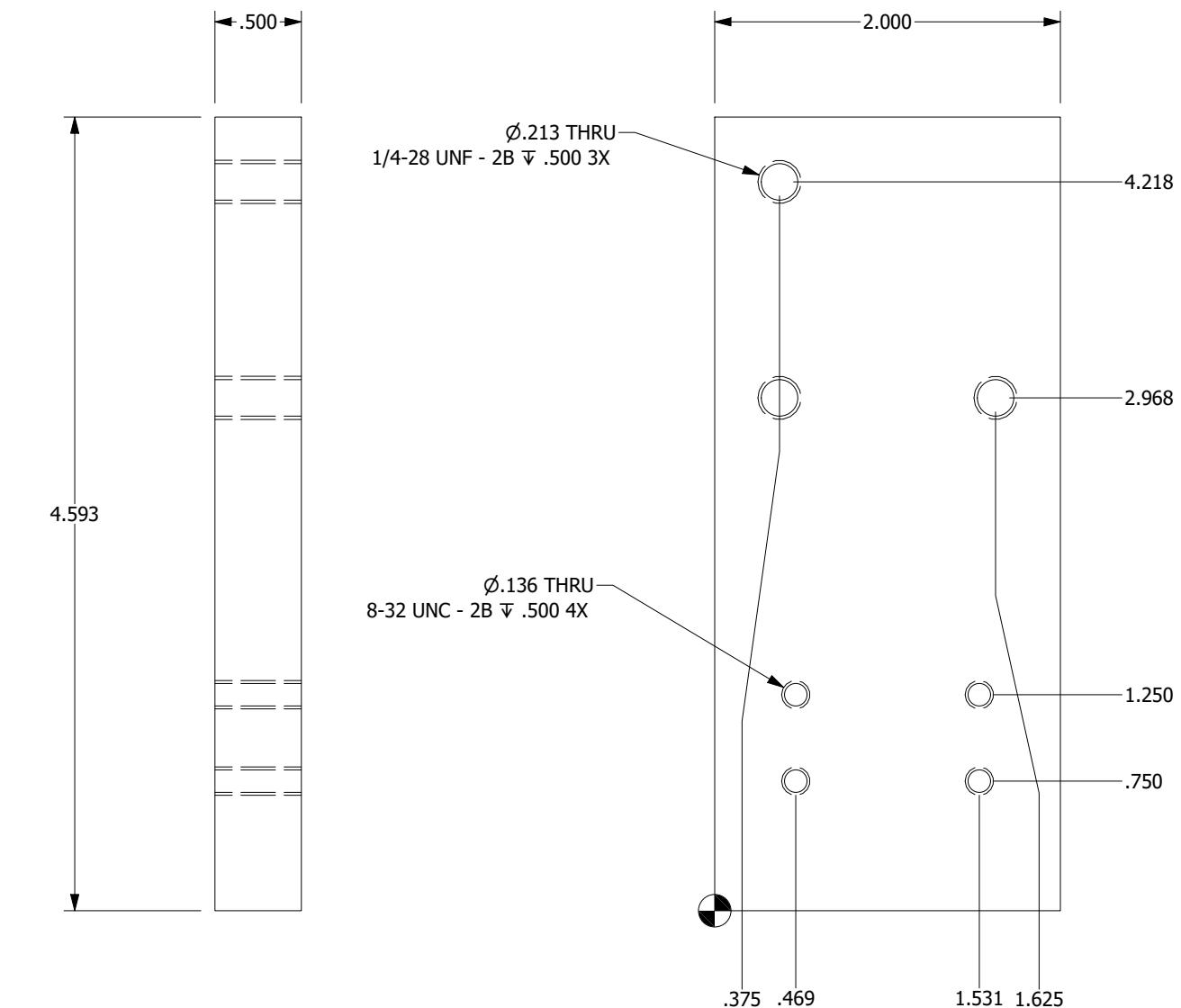
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DWG NO. 10-52307 drill fixture assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52307-2-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0107	52307 drill fixture assembly
SCALE: NONE		REV
		SHEET 3 OF 6

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

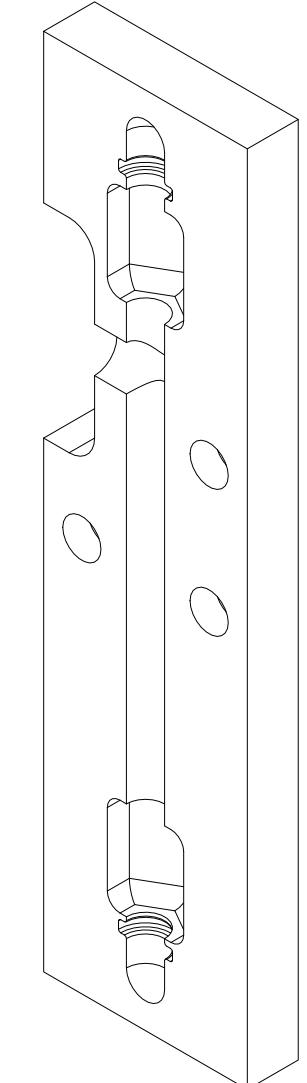
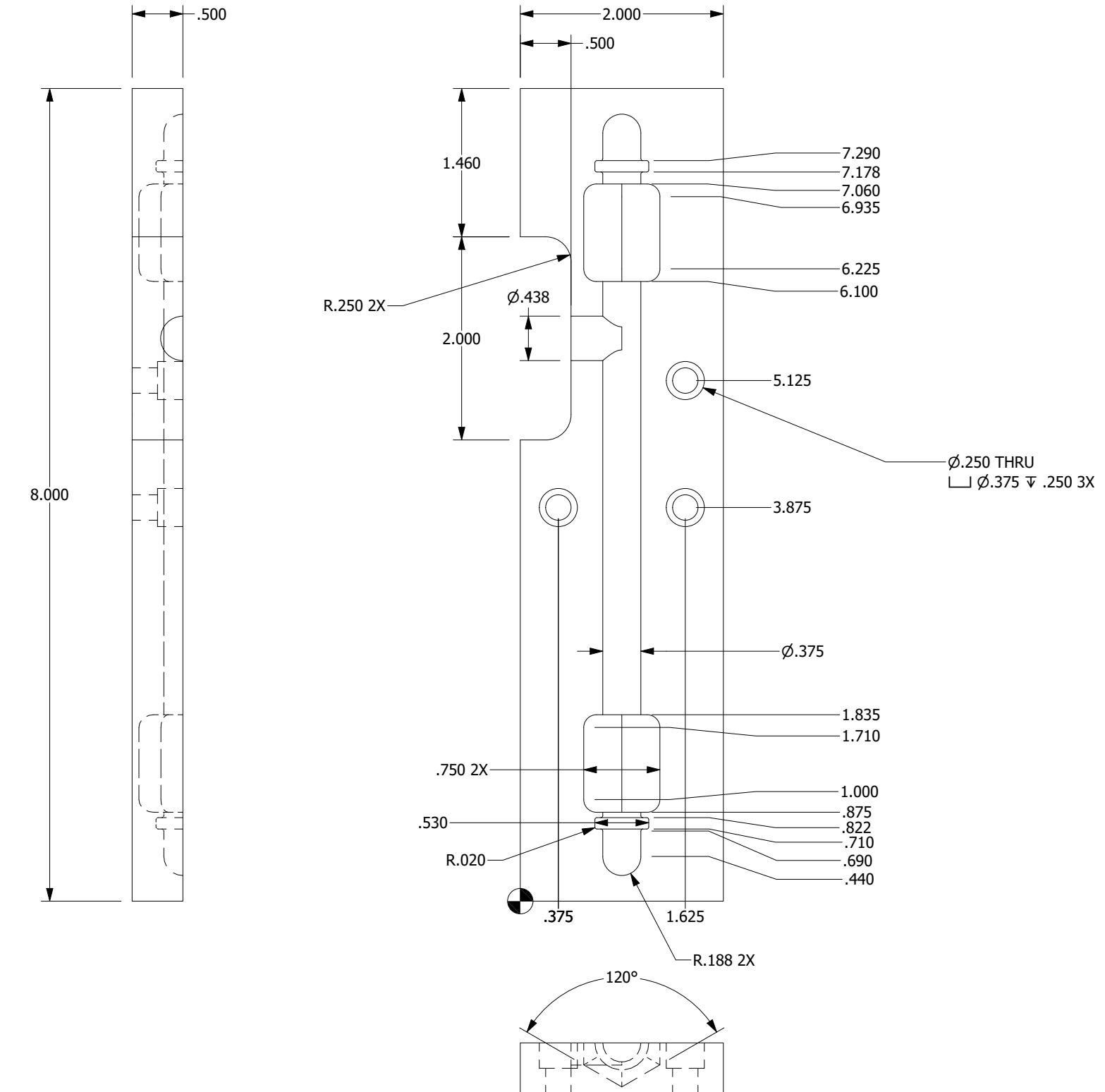
D

C

C

A

A



DRAWING NO. 10-52307 drill fixture assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52307-2-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B	10-52307 drill fixture assembly
SCALE: NONE		REV SHEET 4 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

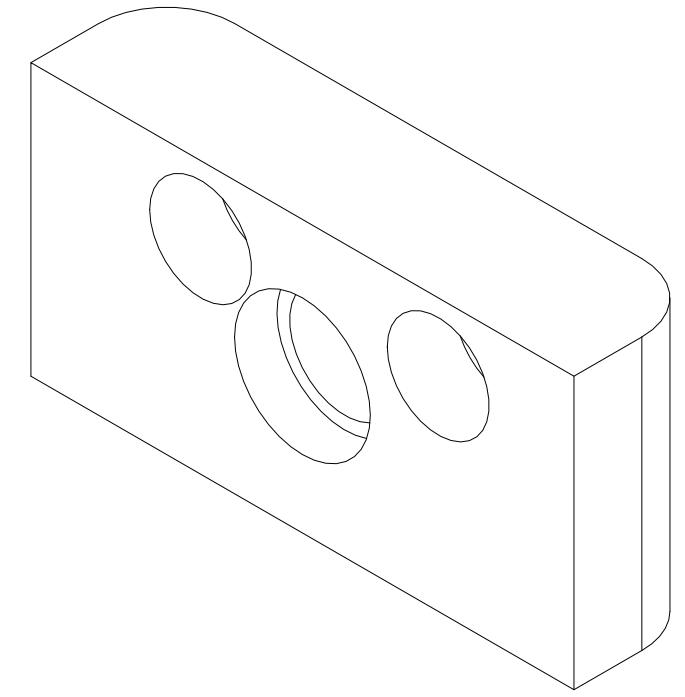
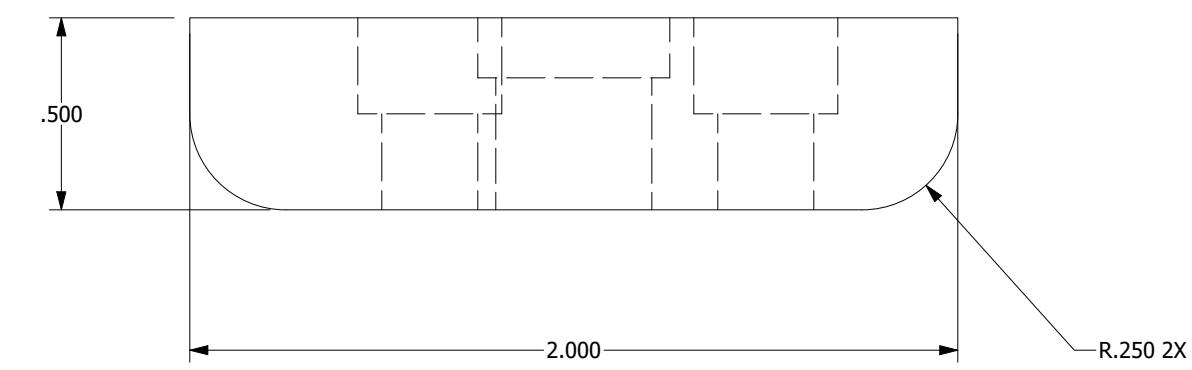
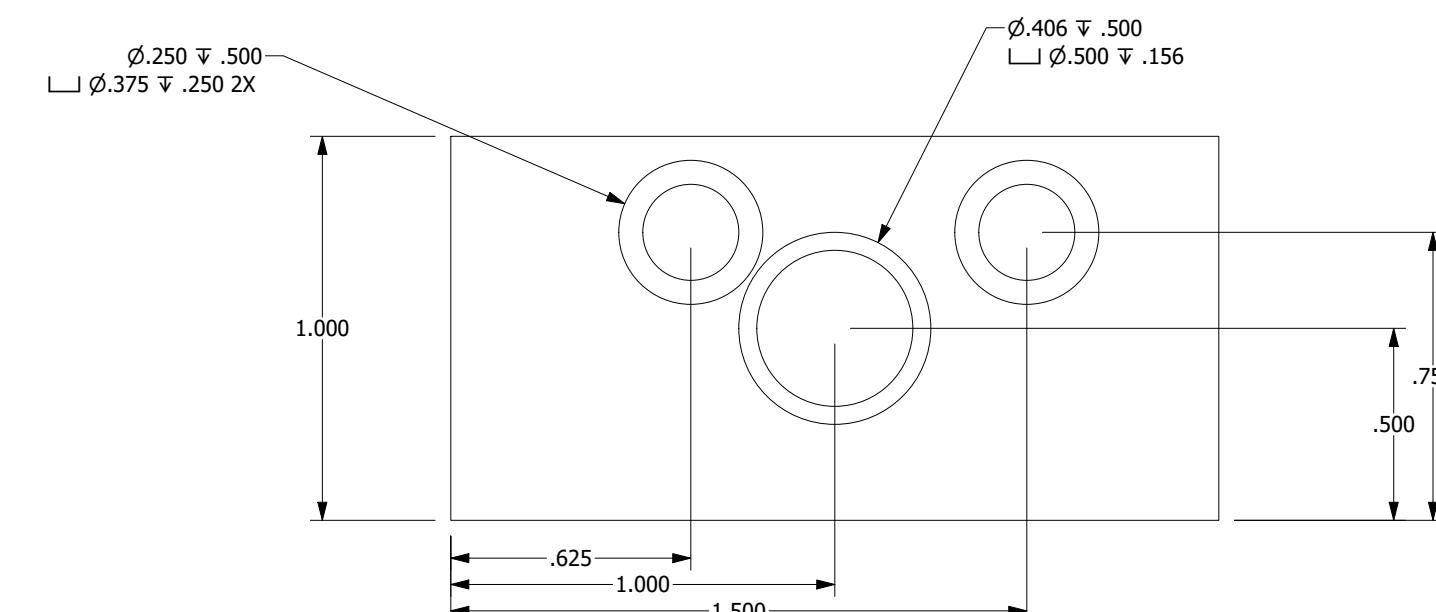
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52307-2-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B	10-52307 drill fixture assembly
SCALE: NONE		REV SHEET 5 OF 6

DRAWING NO. 10-52307 drill fixture assembly

8

7

6

5

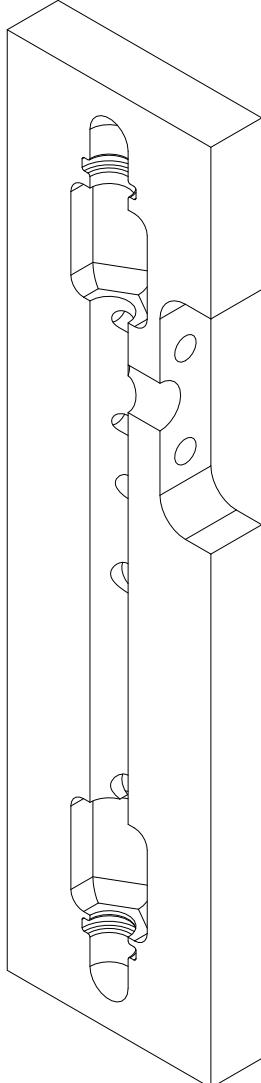
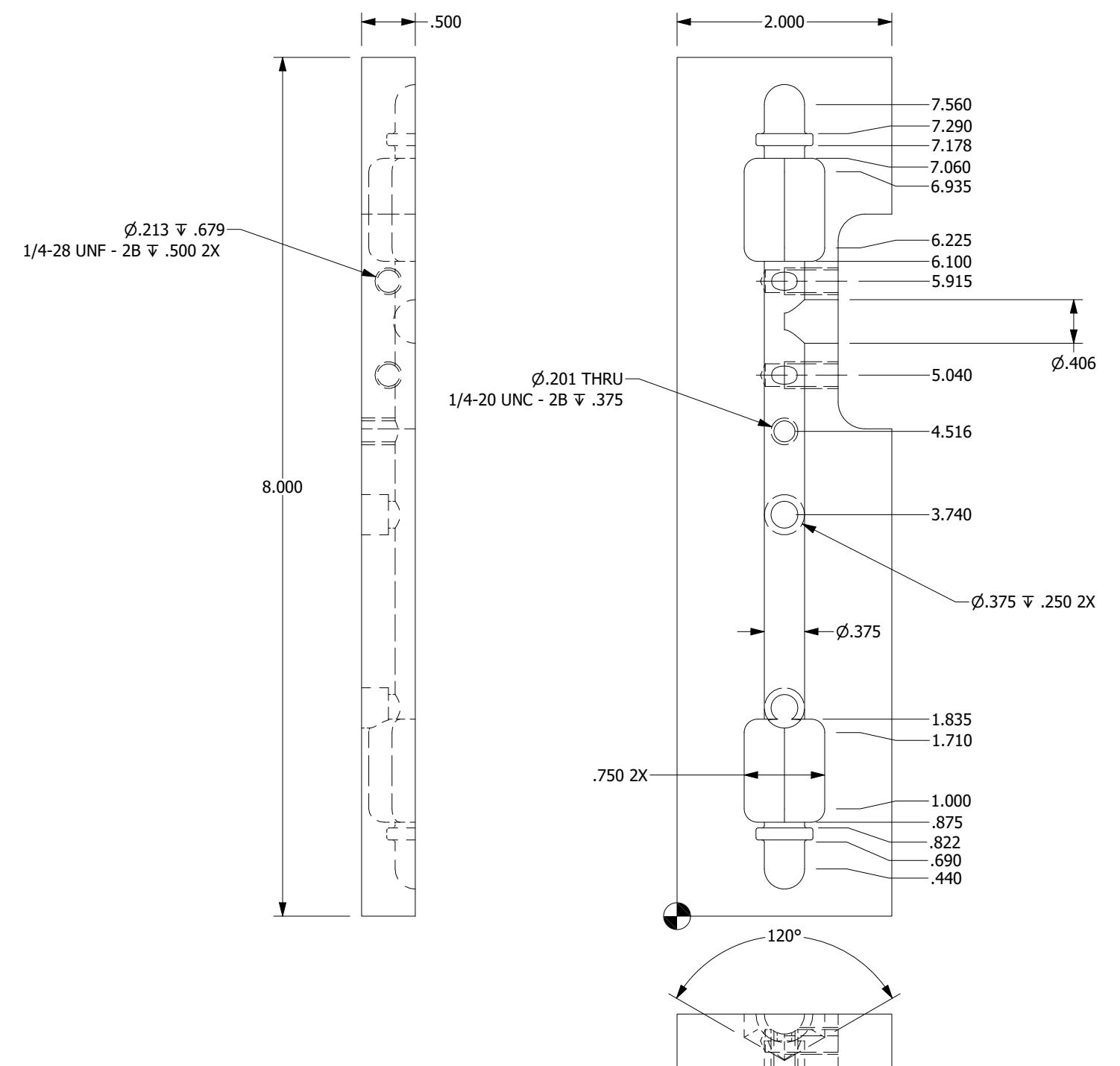
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52307 drill fixture assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52307-2-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B	10-52307 drill fixture assembly
SCALE: NONE		REV SHEET 6 OF 6

8

7

6

5

4

3

2

1

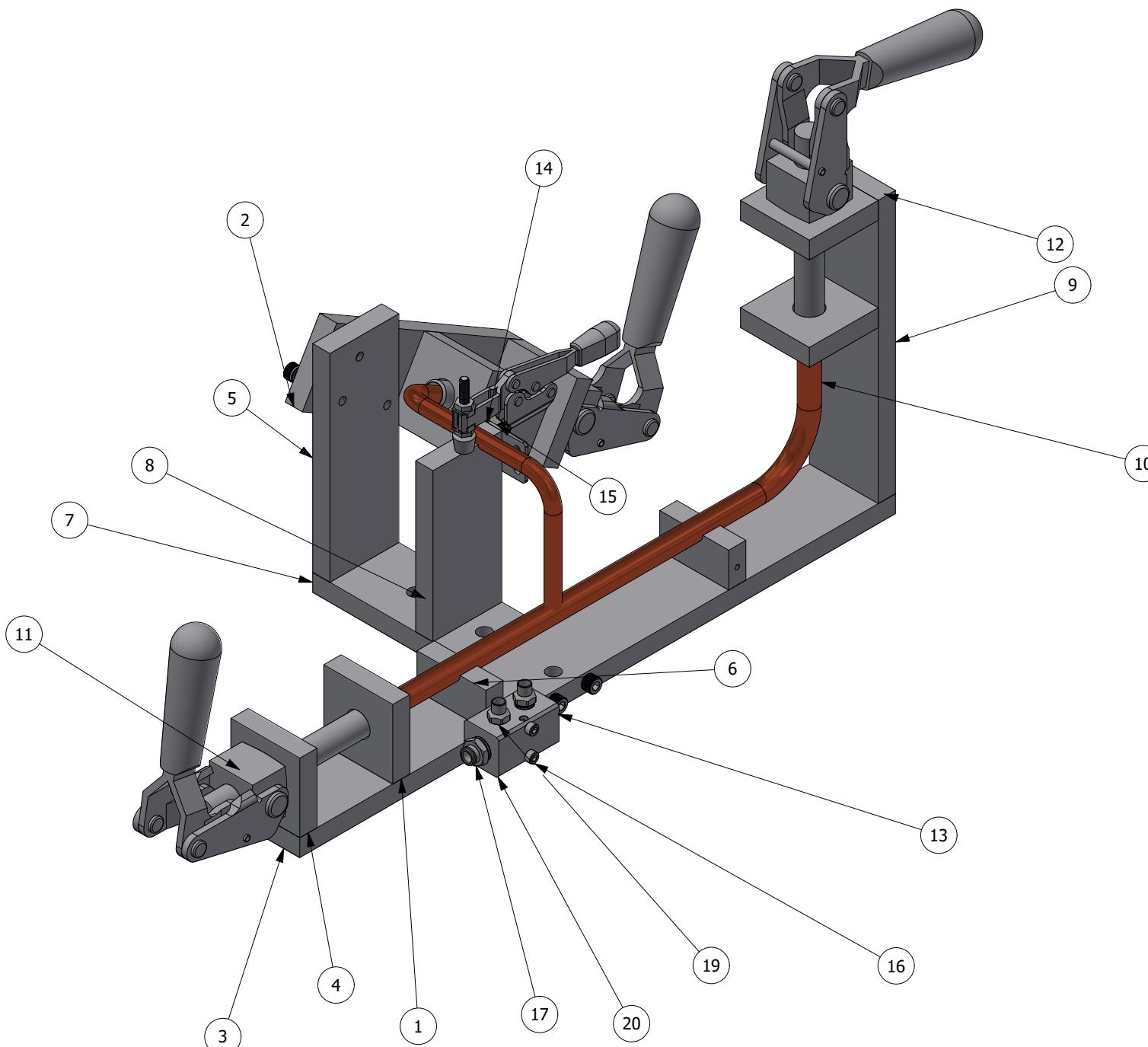
8

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

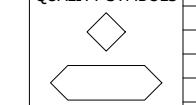
NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100.
 2. REMOVE ALL BURRS AND SHARP EDGES.



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

QUALITY SYMBOLS



DENOTES CRITICAL
INSPECTION

		PARTS LIST	
		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $X \pm 1'$ 1 PLACE DIM. $X \pm .1$ 2 PLACE DIM. $X \pm .01$ 3 PLACE DIM. $X \pm .005$	CONTRACT NO.
QUALITY SYMBOLS		DRAWN B. VILLANUEVA 10/21/2023	DATE CHECKED MECHANICAL B. VILLANUEVA 10/21/2023
		DRAWN B. VILLANUEVA 10/21/2023	DATE ELECTRICAL OPERATIONS B. BLACH APPROVED G. COLE
		DRAWN B. VILLANUEVA 10/21/2023	DATE DRAWING NO. B 0A0B7 10-52308 assembly
		DRAWN B. VILLANUEVA 10/21/2023	SCALE: NONE UNIT WT. REV SHEET 1 OF 10
		DRAWN B. VILLANUEVA 10/21/2023	

Solutions Through Advanced Technology
MAINSTREAM

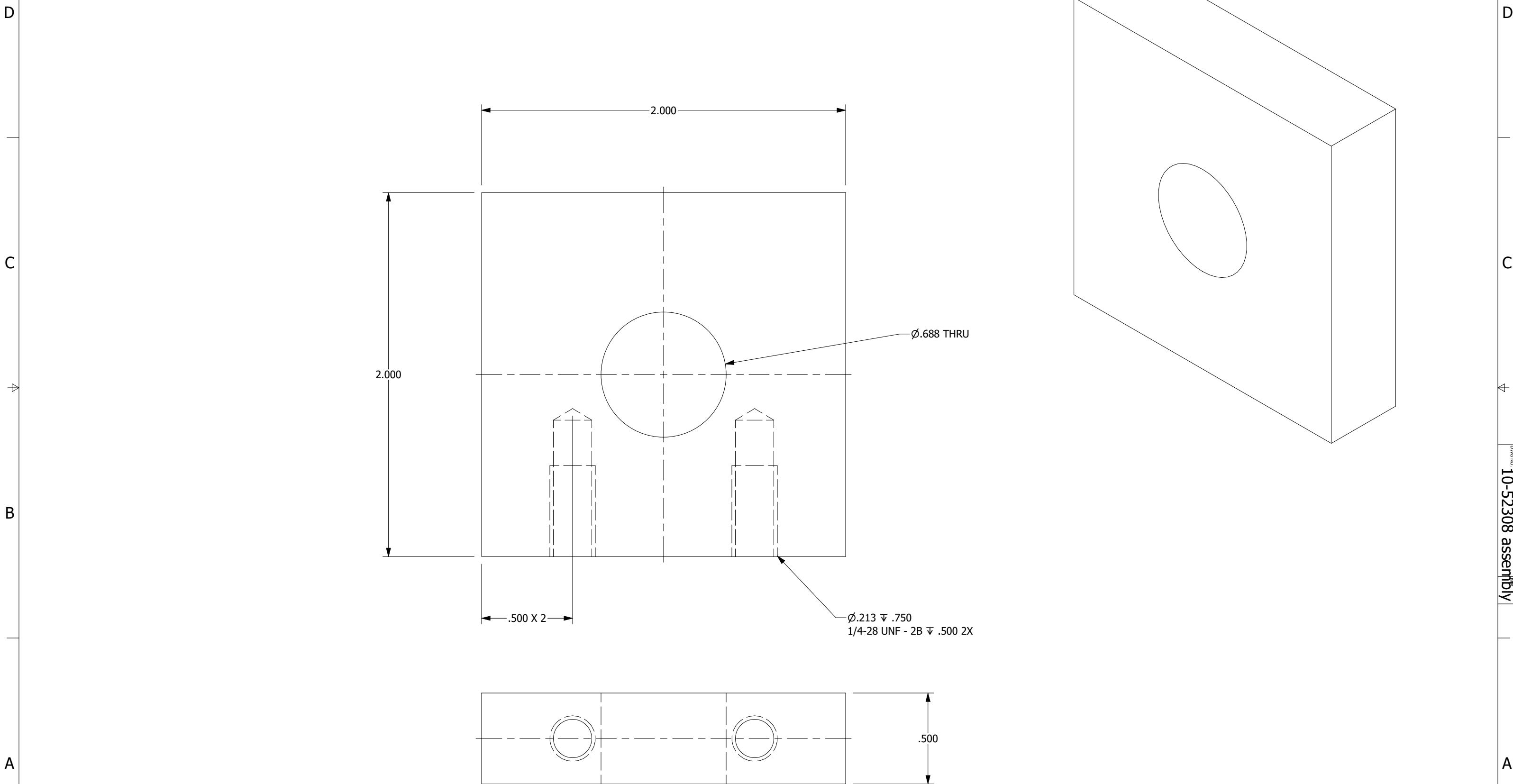
CODE	DRAWING NO.	
B7	10-52308 assembly	
UNIT WT.	REV	SHEET 1 OF 10

8

2

1

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x 0.5"

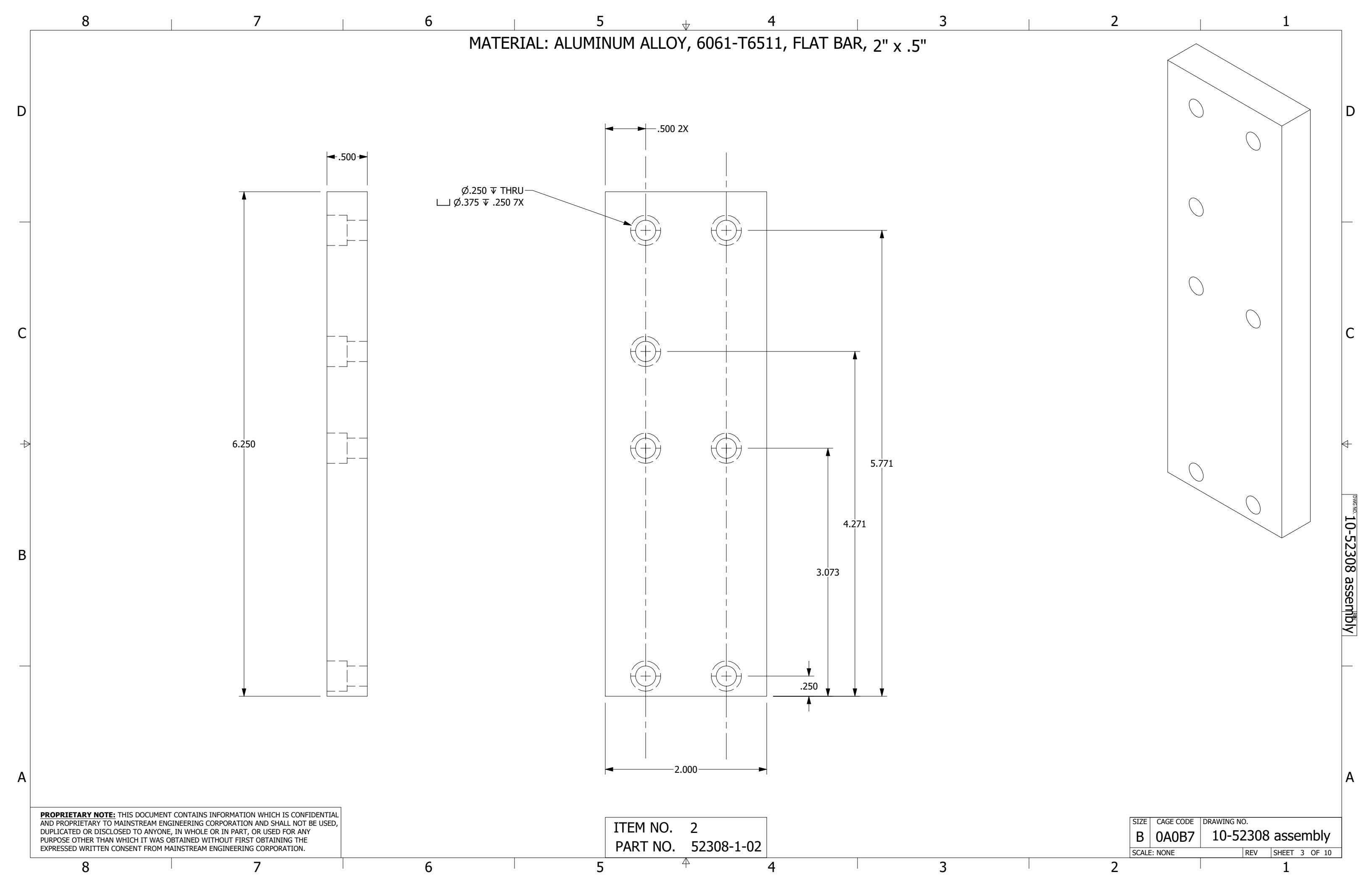


PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 1
PART NO. 52308-1-01

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 assembly
SCALE: NONE		REV SHEET 2 OF 10

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2
PART NO. 52308-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 assembly
SCALE: NONE		REV SHEET 3 OF 10

8

7

6

5

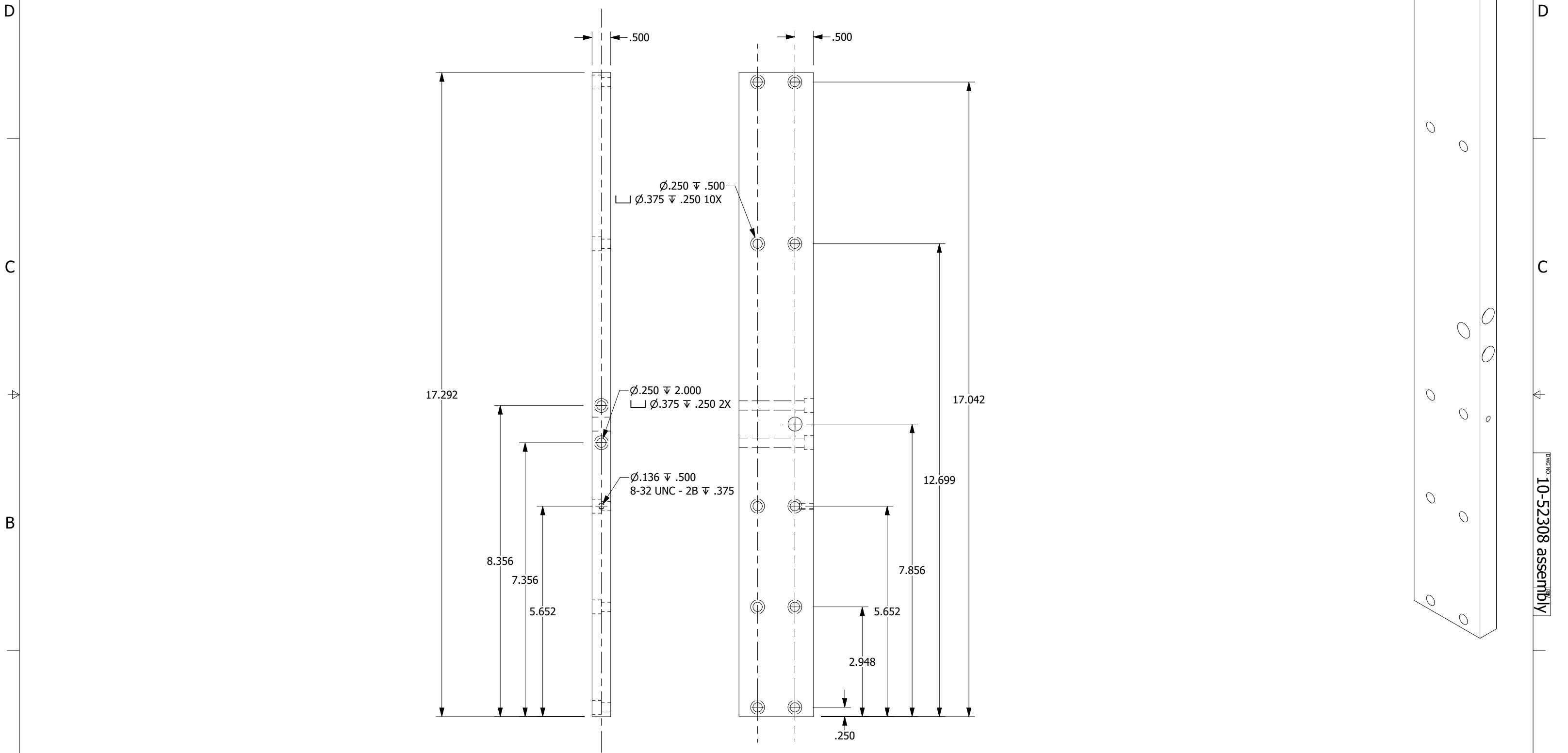
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52308-1-03

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52308 assembly
SCALE: NONE		REV SHEET 4 OF 10

8

7

6

5

4

3

2

1

DRAWING NO. 10-52308 assembly

REV

4

OF

10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"

D

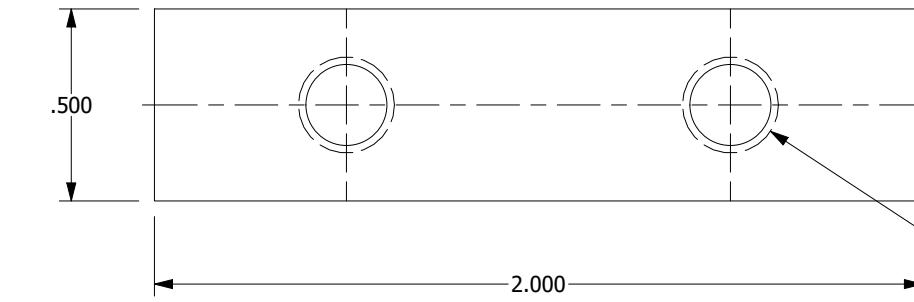
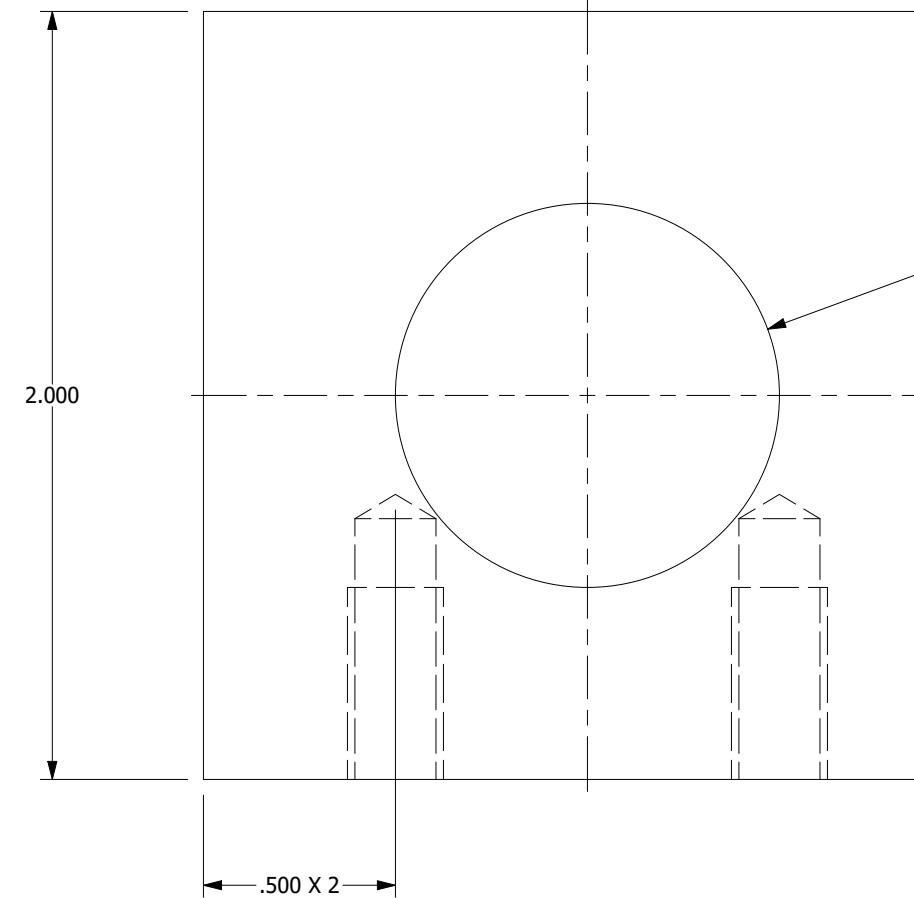
D

C

C

A

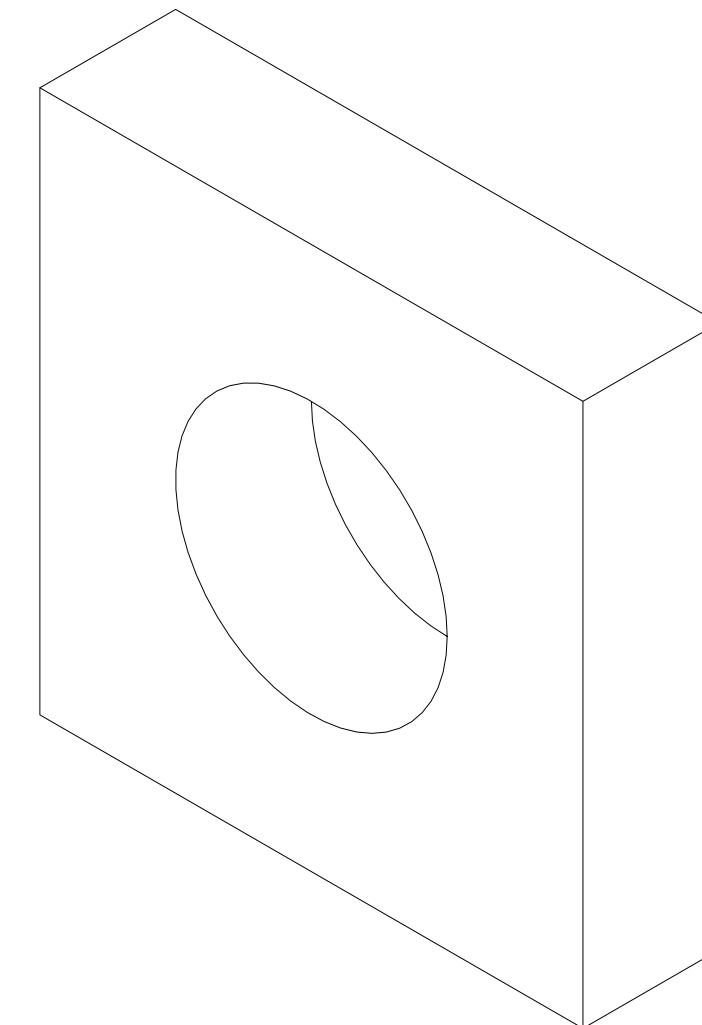
A



Ø.213 & .679
1/4-28 UNF - 2B & .500 2X

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52308-1-04



DRAWING NO.
10-52308 assembly

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 assembly
SCALE: NONE		REV SHEET 5 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"

D

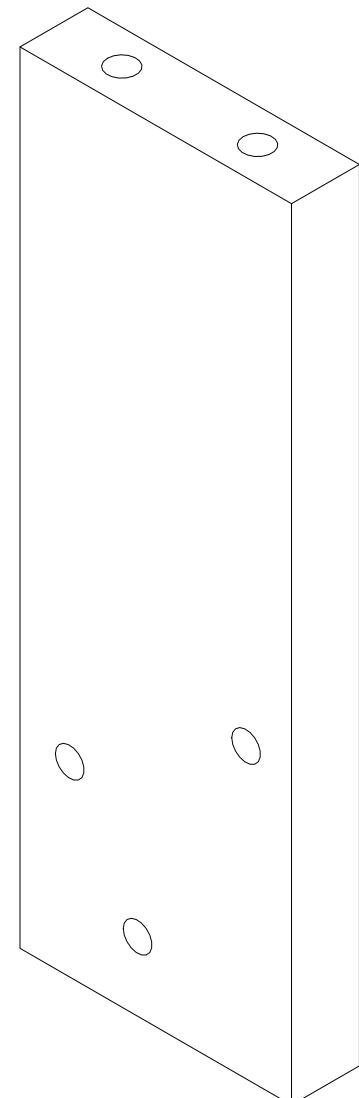
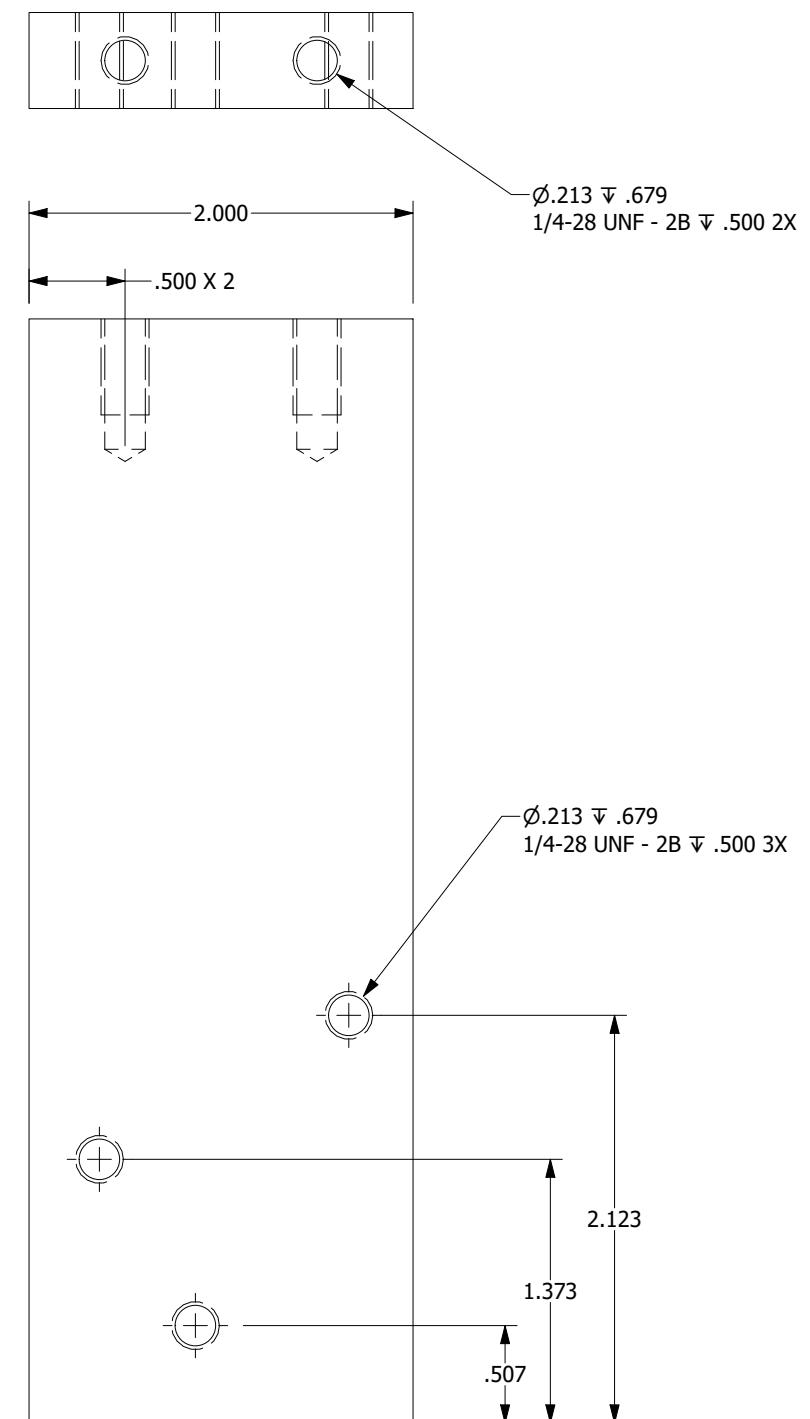
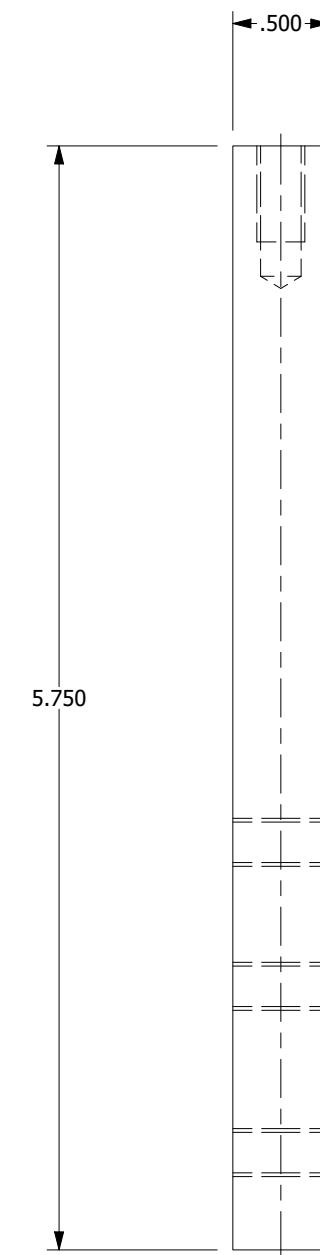
D

C

C

A

A



DRAWING NO. 10-52308 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 5
PART NO. 52308-1-05

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52308 assembly
SCALE: NONE		REV SHEET 6 OF 10

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"

D

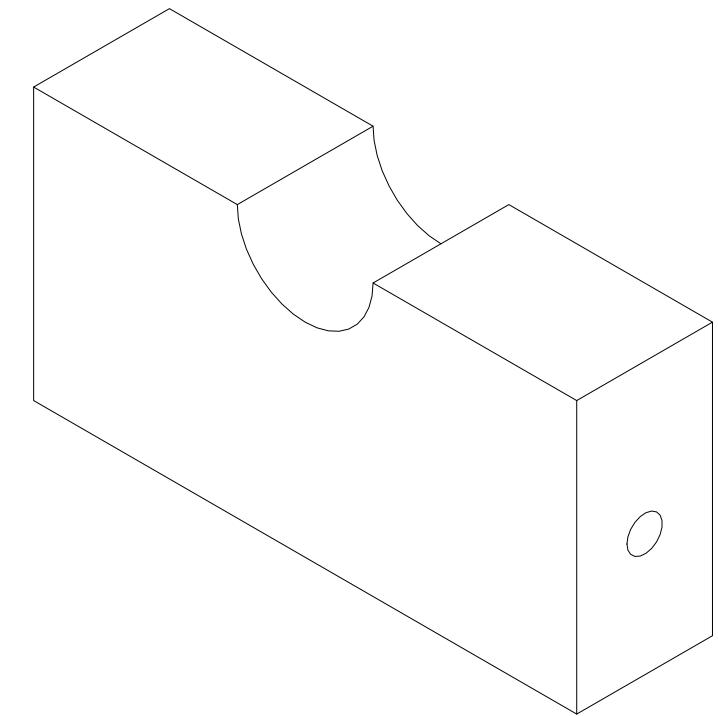
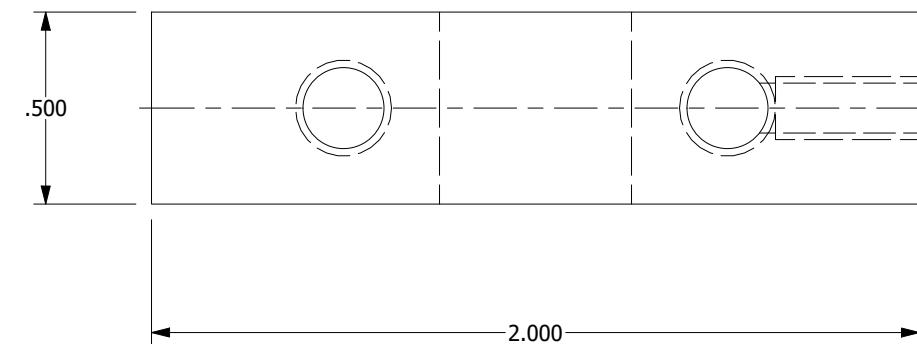
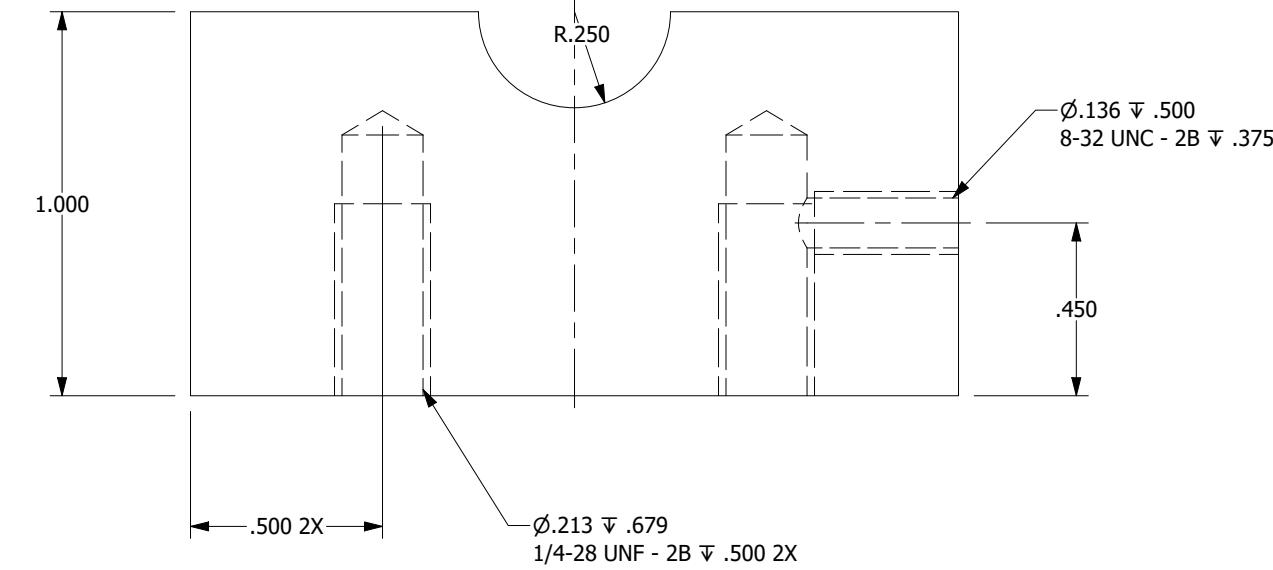
D

C

C

A

A



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52308-1-07

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52308 assembly
SCALE: NONE		REV SHEET 7 OF 10

8

7

6

5

4

3

2

1

DRAWING NO. 10-52308 assembly

REV

SHEET

7 OF 10

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"

D

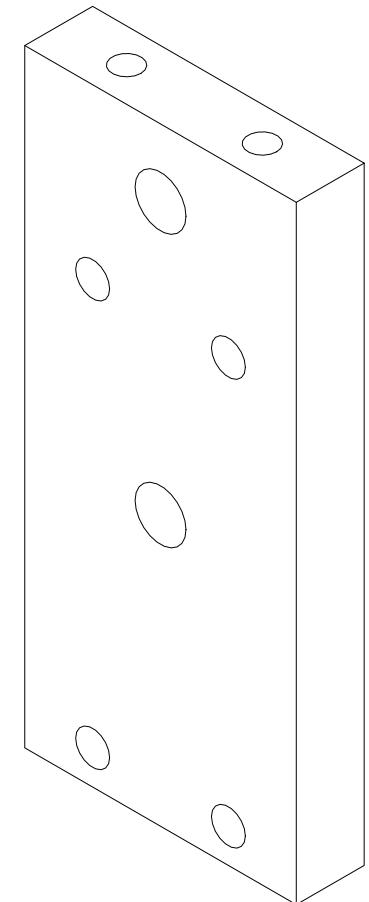
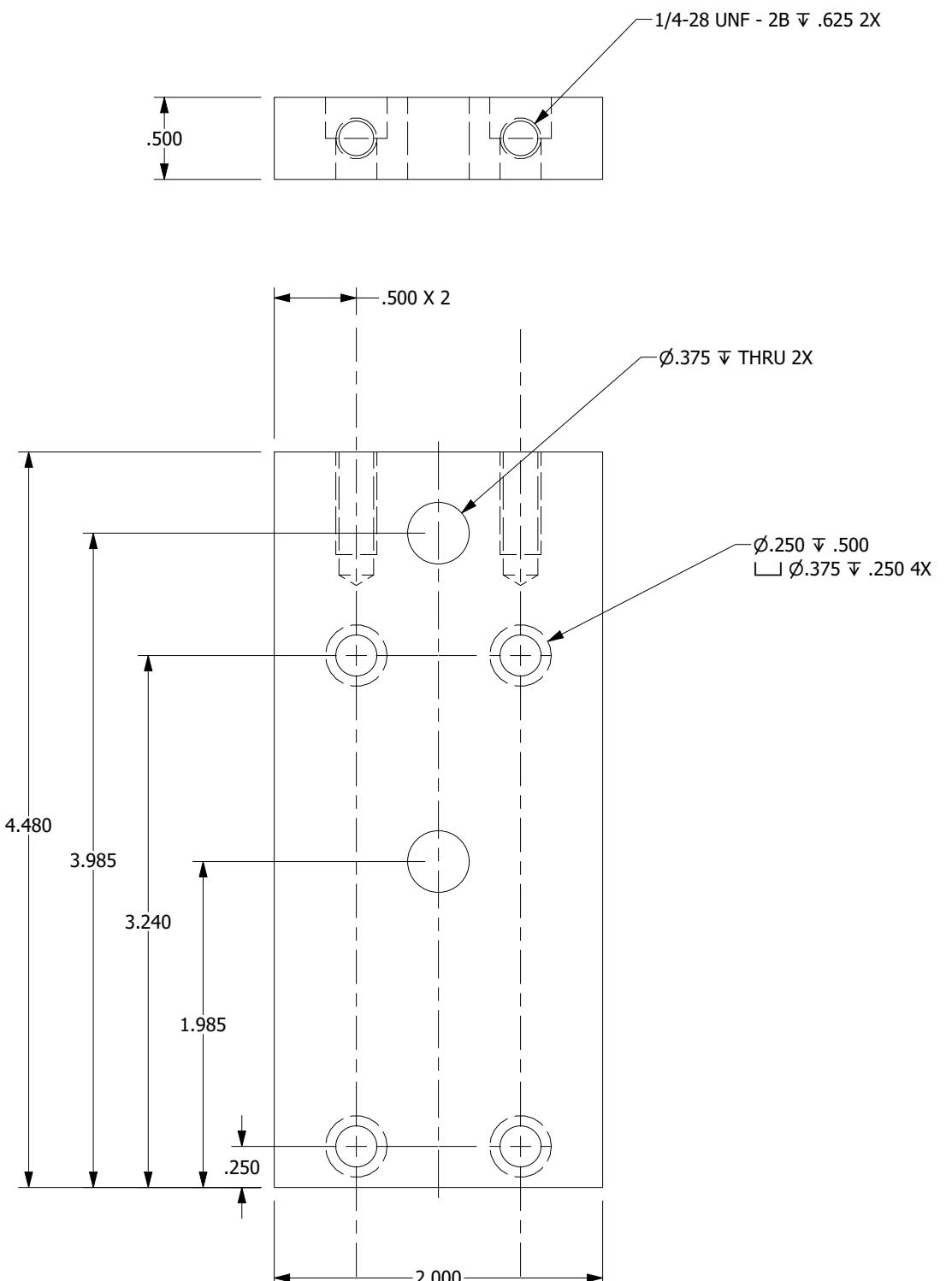
D

C

C

A

A



DRAWING NO. 10-52308 assembly
REV B

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 9
PART NO. 52308-1-09

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52308 assembly
SCALE: NONE		REV SHEET 8 OF 10

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"

D

C

B

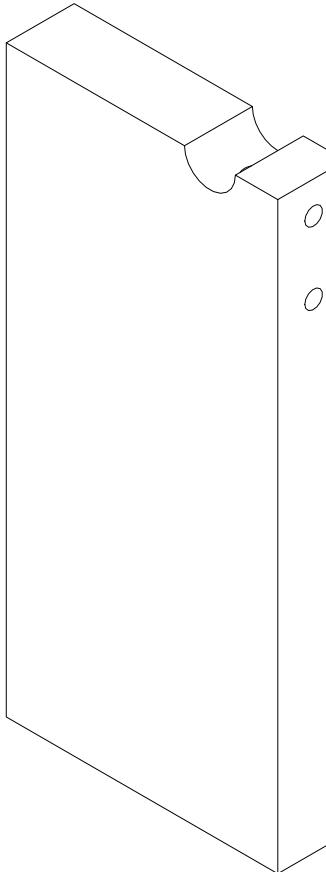
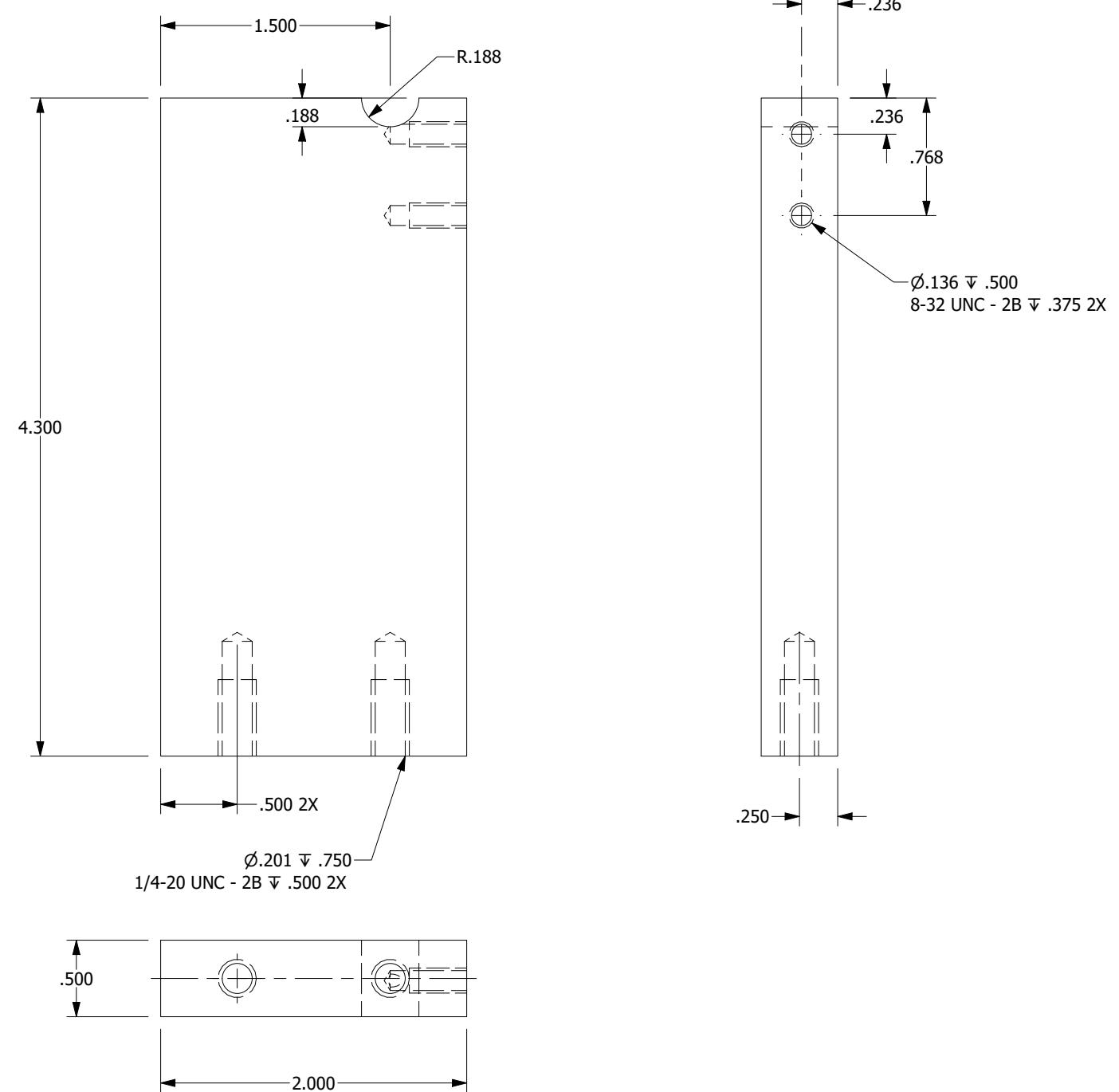
A

D

C

B

A



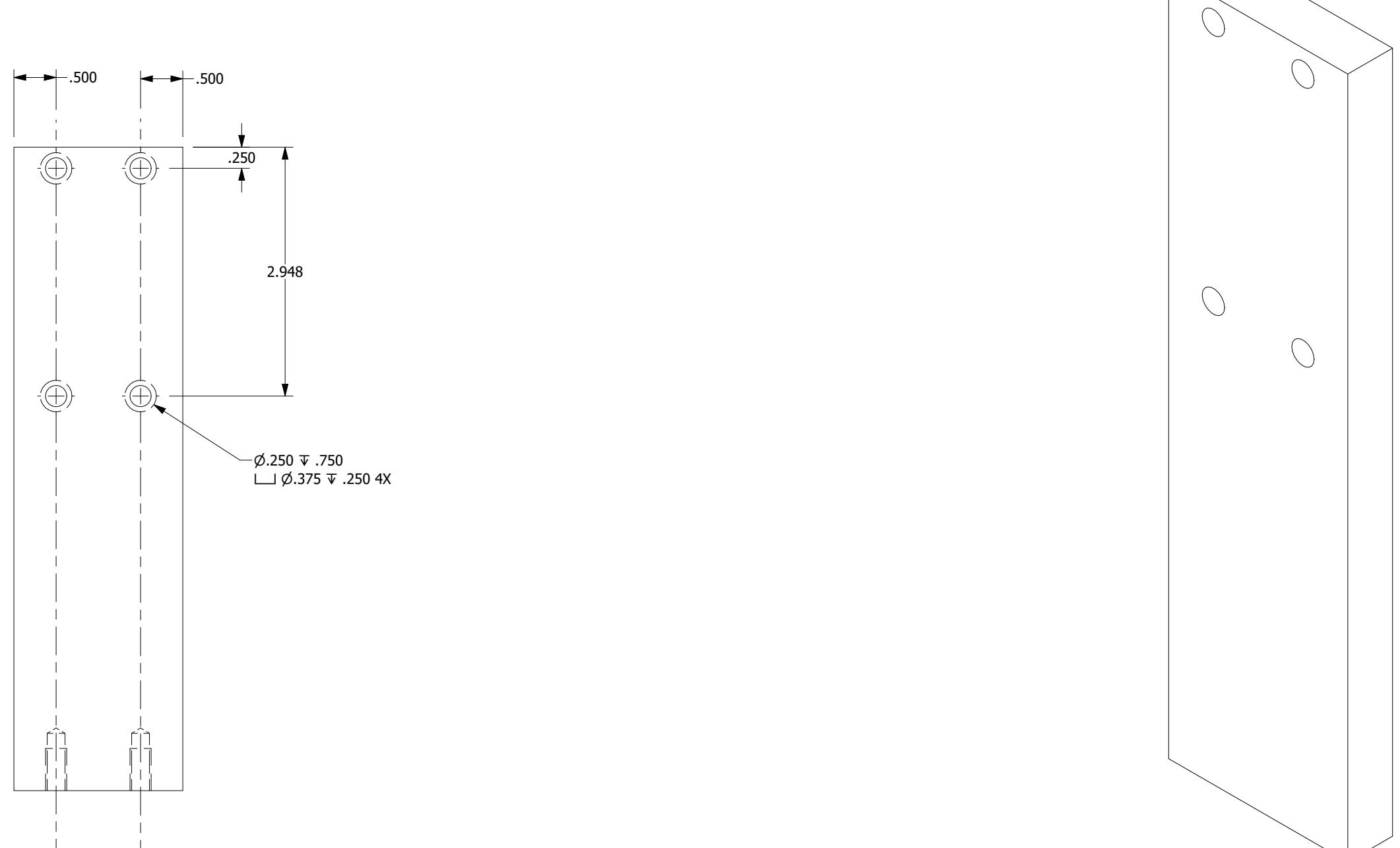
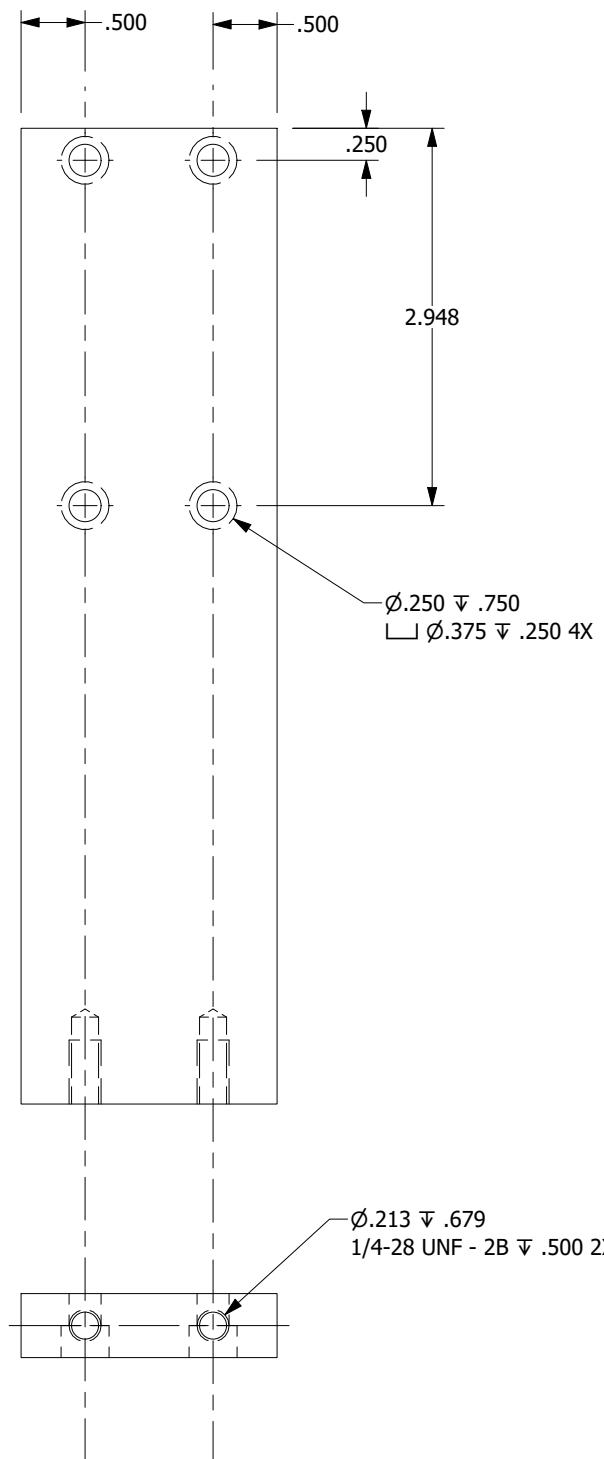
DRAWING NO. 10-52308 assembly

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 10
PART NO. 52308-1-10

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 assembly
SCALE: NONE		REV SHEET 9 OF 10

MATERIAL: ALUMINUM ALLOY, 6061-T6511, FLAT BAR, 2" x .5"



PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 11
PART NO. 52308-1-11

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 assembly
SCALE: NONE		REV SHEET 10 OF 10

8

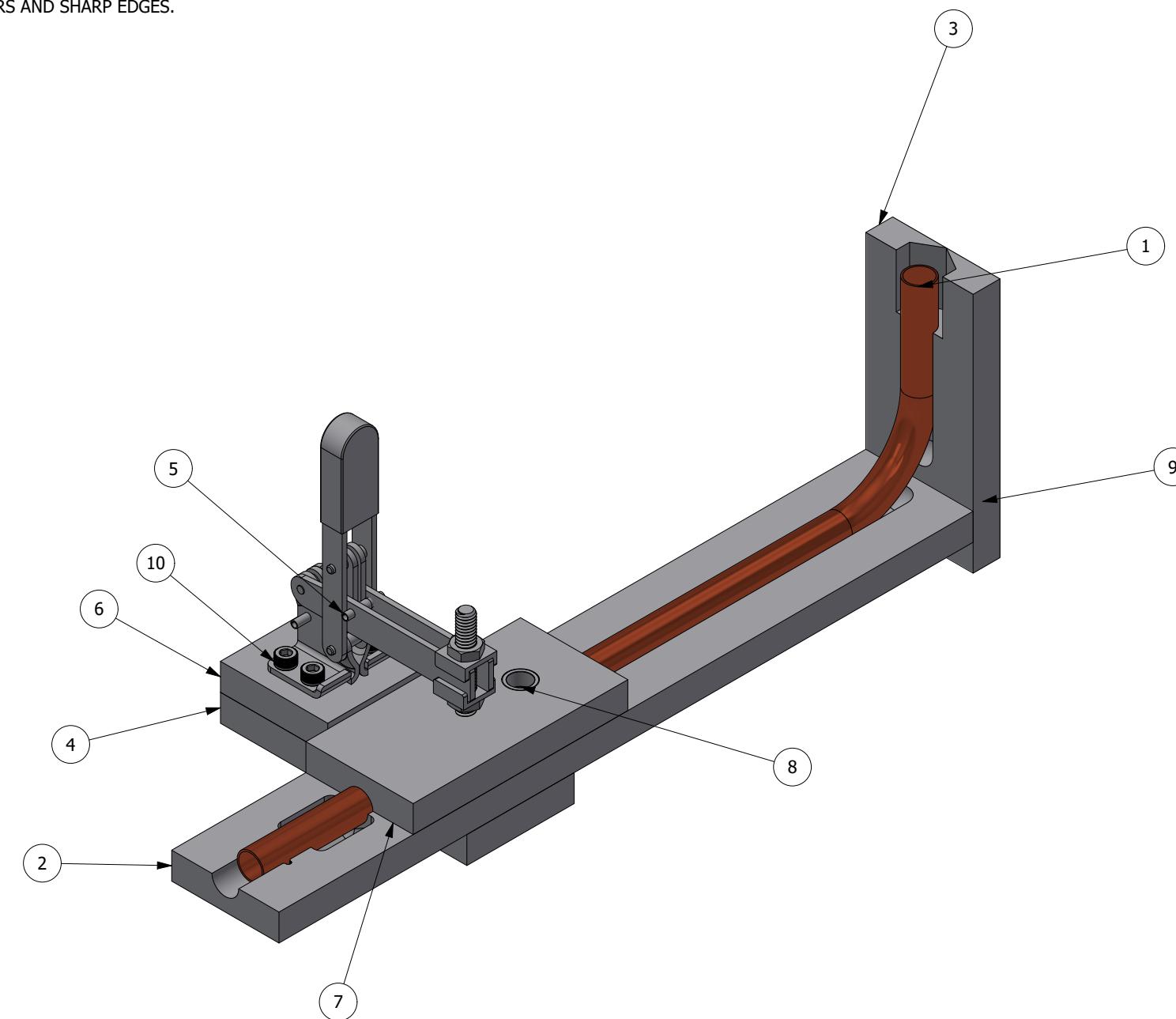
-

REVISIONS

REV	ZONE	DESCRIPTION	DATE	APPROVED
A				GSC

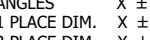
NOTES:

1. INTERPRET THIS DRAWING IN ACCORDANCE WITH ASME Y14.100
 2. REMOVE ALL BURRS AND SHARP EDGES.



10	90128A947	4	Zinc-Plated Alloy Steel Socket Head Screw	
9	91274A179	6	Zinc-Aluminum-Coated Alloy Steel Socket Head Screw	
8	8491A725	1	Press-Fit Drill Bushing	
7	52308-2-05	1	top mold	
6	52308-2-01	1	clamp riser	
5	5126A71	1	Hold-Down Toggle Clamp	
4	52308-2-03	1	clamp connector	
3	52308-2-04	1	riser	
2	52308-2-02	1	base mold	

NOMENCLATURE OR [REDACTED]

ITEM	PART NUMBER	QTY	REFERENCE OR DESCRIPTION	SPECIFICATION		
PARTS LIST						
QUALITY SYMBOLS  DENOTES CRITICAL INSPECTION	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: ANGLES $X \pm 1'$ 1 PLACE DIM. $X \pm .1$ 2 PLACE DIM. $X \pm .01$ 3 PLACE DIM. $X \pm .005$		<u>CONTRACT NO.</u> DATE DRAWN B. VILLANUEVA 10/28/2023 CHECKED DATE MECHANICAL B. VILLANUEVA 10/28/2023 ELECTRICAL DATE OPERATIONS B. BLACH DATE APPROVED G. COLE DATE			
	NEXT ASSY	USED ON	 THIRD ANGLE PROJECTION	SIZE	CAGE CODE	DRAWING NO.
			B	0A0B7	10-52308 drill fixture	
			SCALE: NONE	UNIT WT.	REV	SHEET 1 OF 6

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

C

A

A

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

8

7

6

5

4

3

2

1

ITEM NO. 6
PART NO. 52308-1-02

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 drill fixture
SCALE: NONE		REV SHEET 2 OF 6

DRAWING NO. 10-52308 drill fixture

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

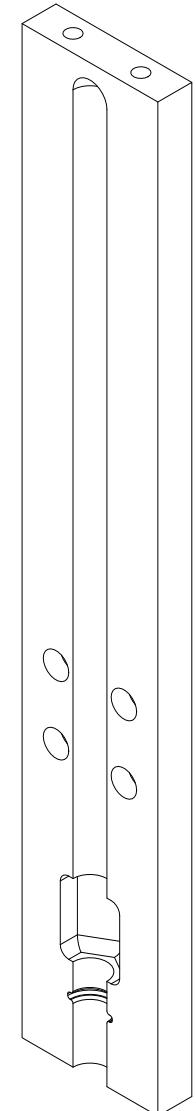
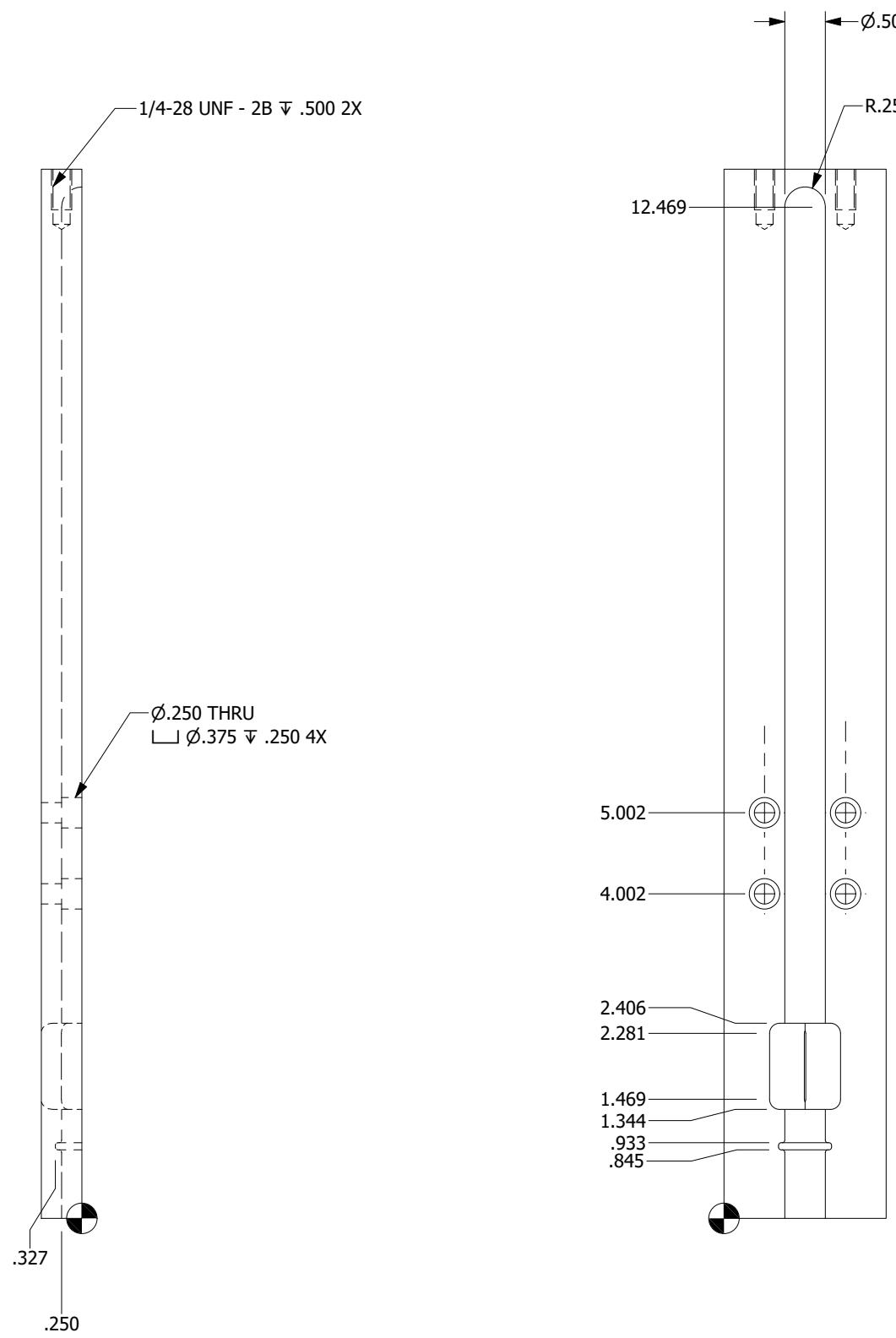
D

C

C

A

A



DRAWING NO. 10-52308 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 2	PART NO. 52308-2-02
------------	---------------------

SIZE B	CAGE CODE 0A0B7	DRAWING NO. 10-52308 drill fixture
SCALE: NONE		REV SHEET 3 OF 6

8

7

6

5

4

3

2

1

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

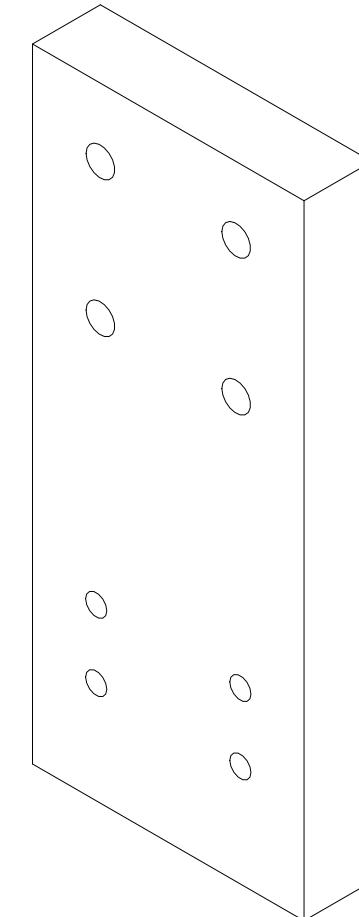
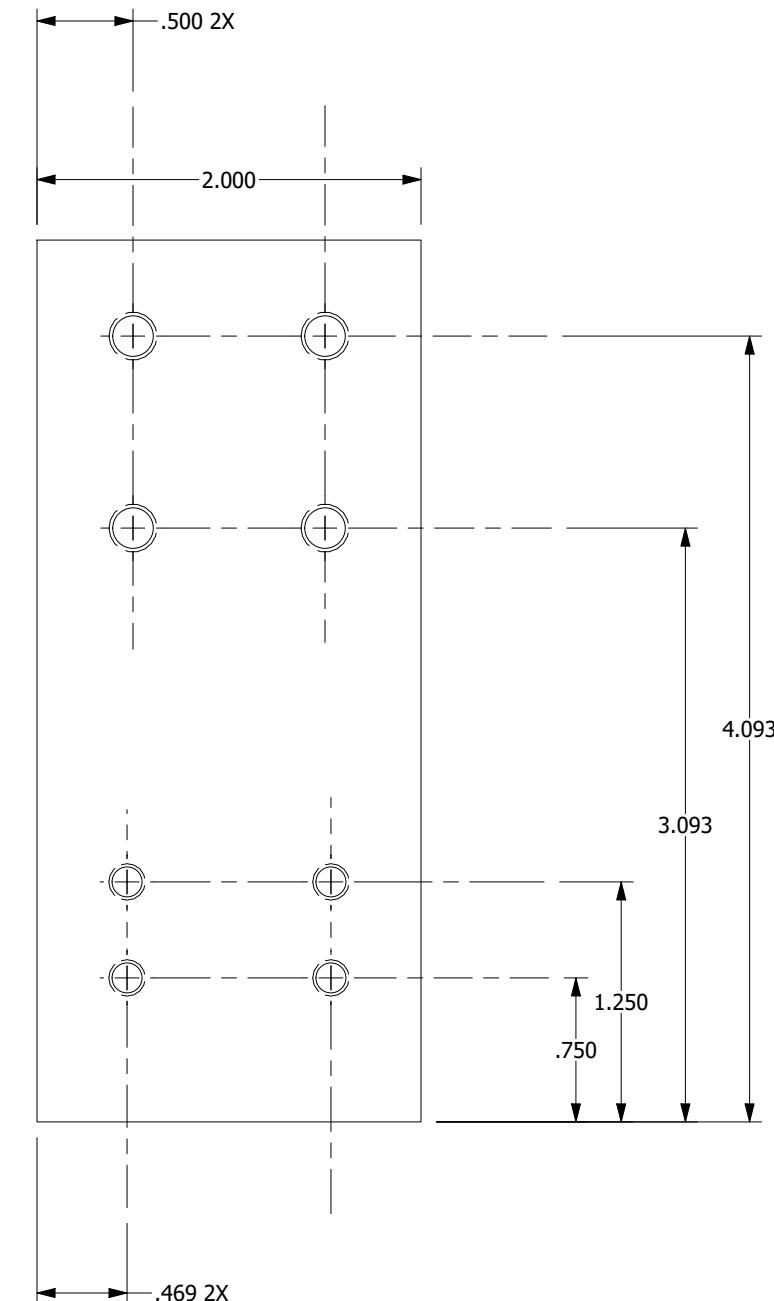
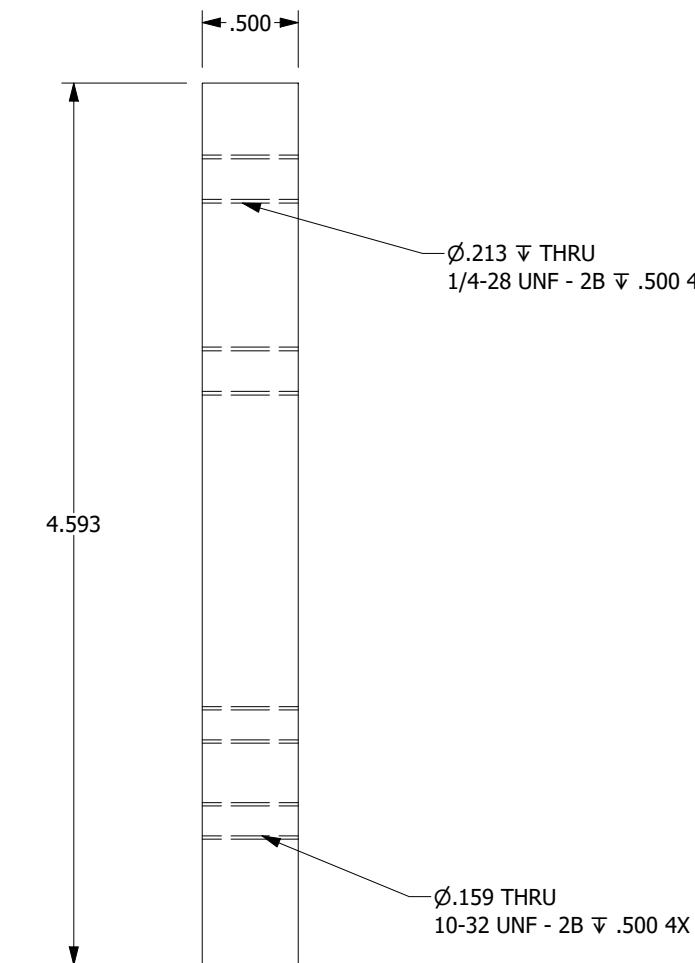
D

C

C

A

A



DRAWING NO. 10-52308 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 4
PART NO. 52308-2-03

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 drill fixture
SCALE: NONE		REV SHEET 4 OF 6

8

7

6

5

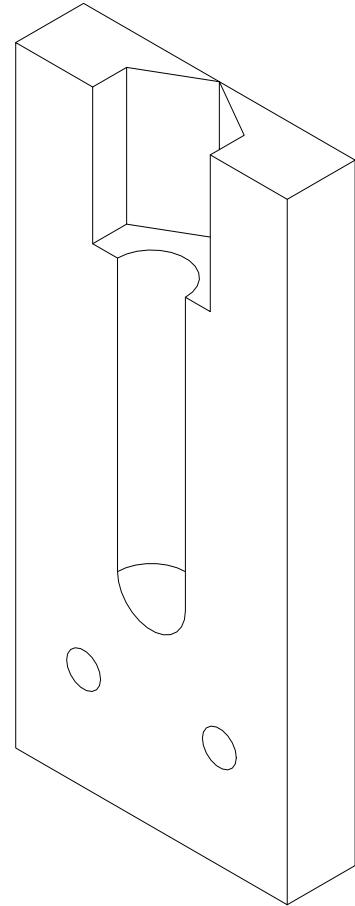
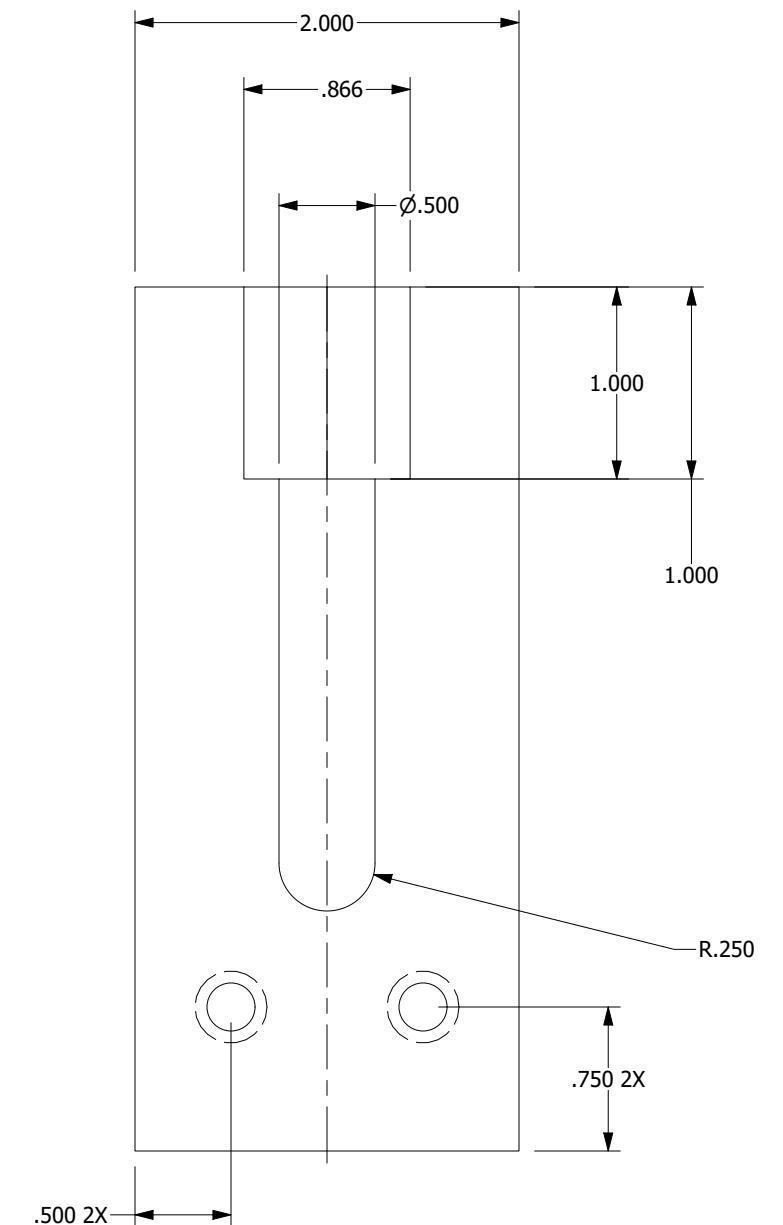
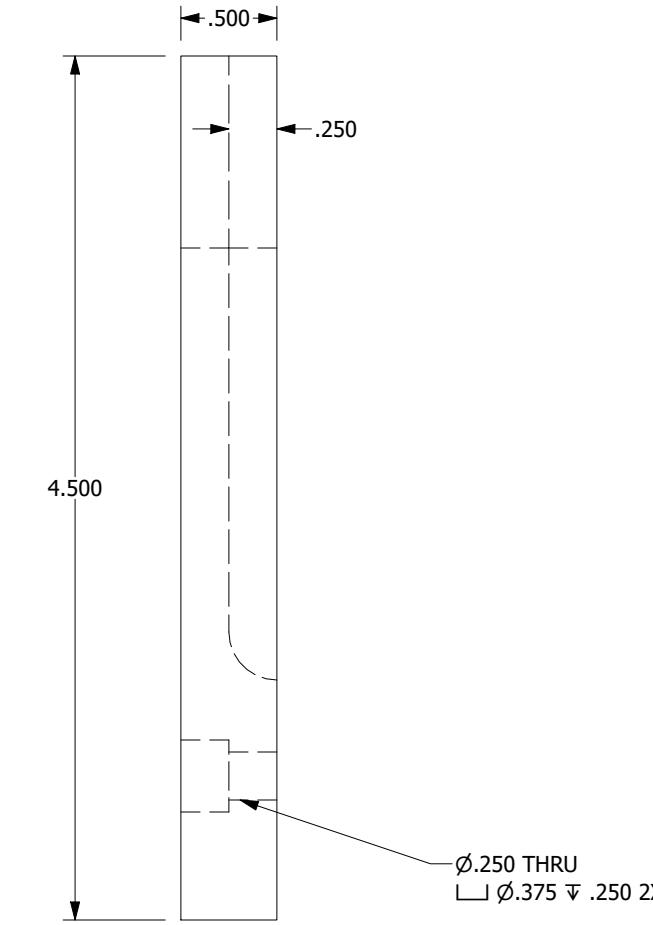
4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"



DRAWING NO. 10-52308 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 3
PART NO. 52308-2-04

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 drill fixture
SCALE: NONE		REV SHEET 5 OF 6

8

7

6

5

4

3

2

1

MATERIAL: ALUMINUM ALLOY, 6061, FLAT BAR, 2" X .5"

D

D

C

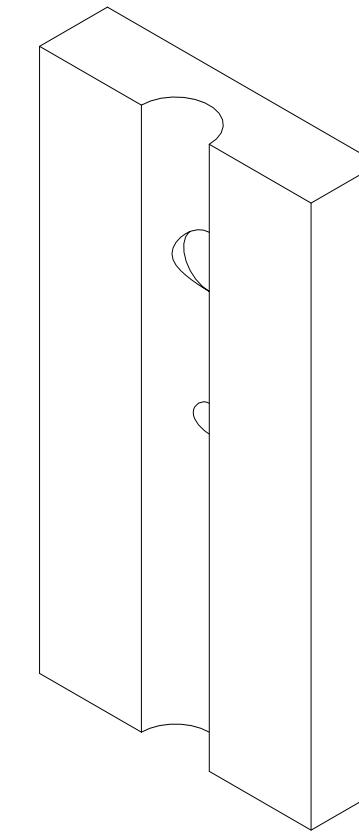
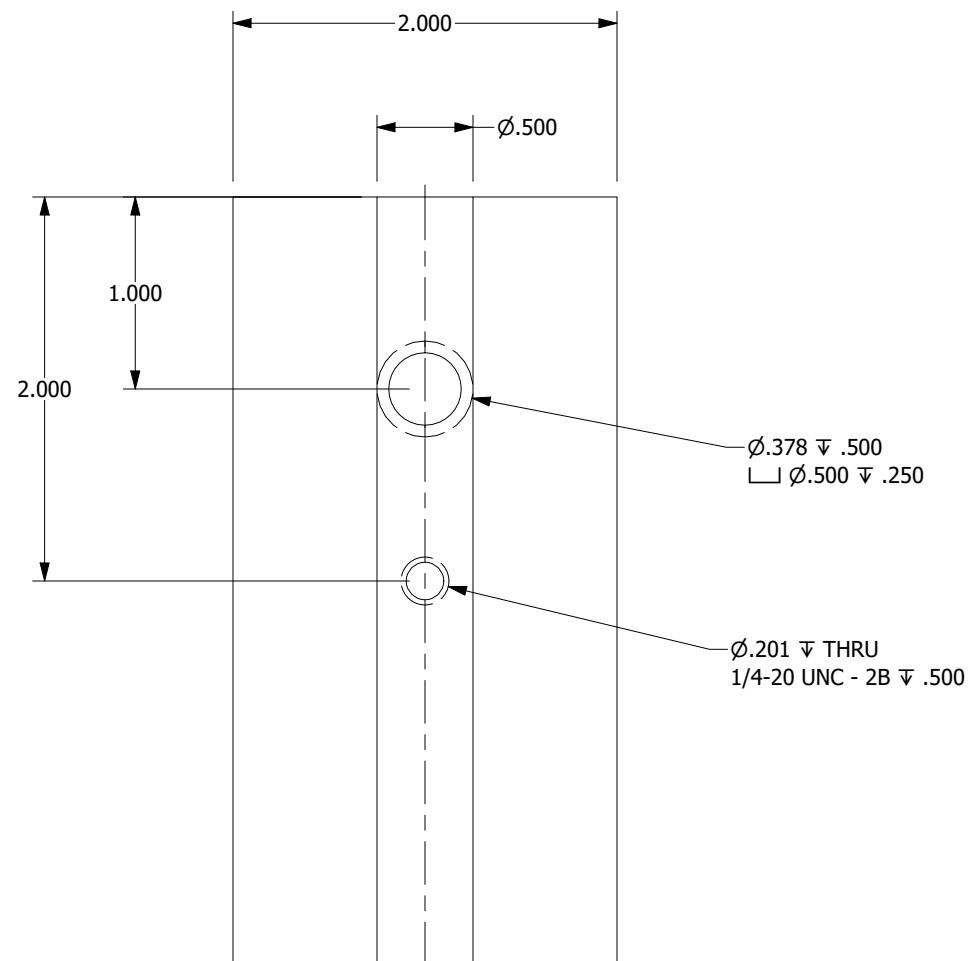
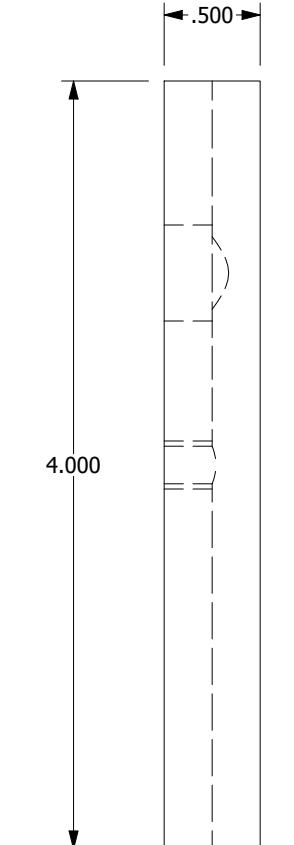
C

B

B

A

A



DRAWING NO. 10-52308 drill fixture

PROPRIETARY NOTE: THIS DOCUMENT CONTAINS INFORMATION WHICH IS CONFIDENTIAL AND PROPRIETARY TO MAINSTREAM ENGINEERING CORPORATION AND SHALL NOT BE USED, DUPLICATED OR DISCLOSED TO ANYONE, IN WHOLE OR IN PART, OR USED FOR ANY PURPOSE OTHER THAN WHICH IT WAS OBTAINED WITHOUT FIRST OBTAINING THE EXPRESSED WRITTEN CONSENT FROM MAINSTREAM ENGINEERING CORPORATION.

ITEM NO. 7
PART NO. 52308-2-05

SIZE	CAGE CODE	DRAWING NO.
B	0A0B7	10-52308 drill fixture
SCALE: NONE		REV SHEET 6 OF 6

8

7

6

5

4

3

2

1