

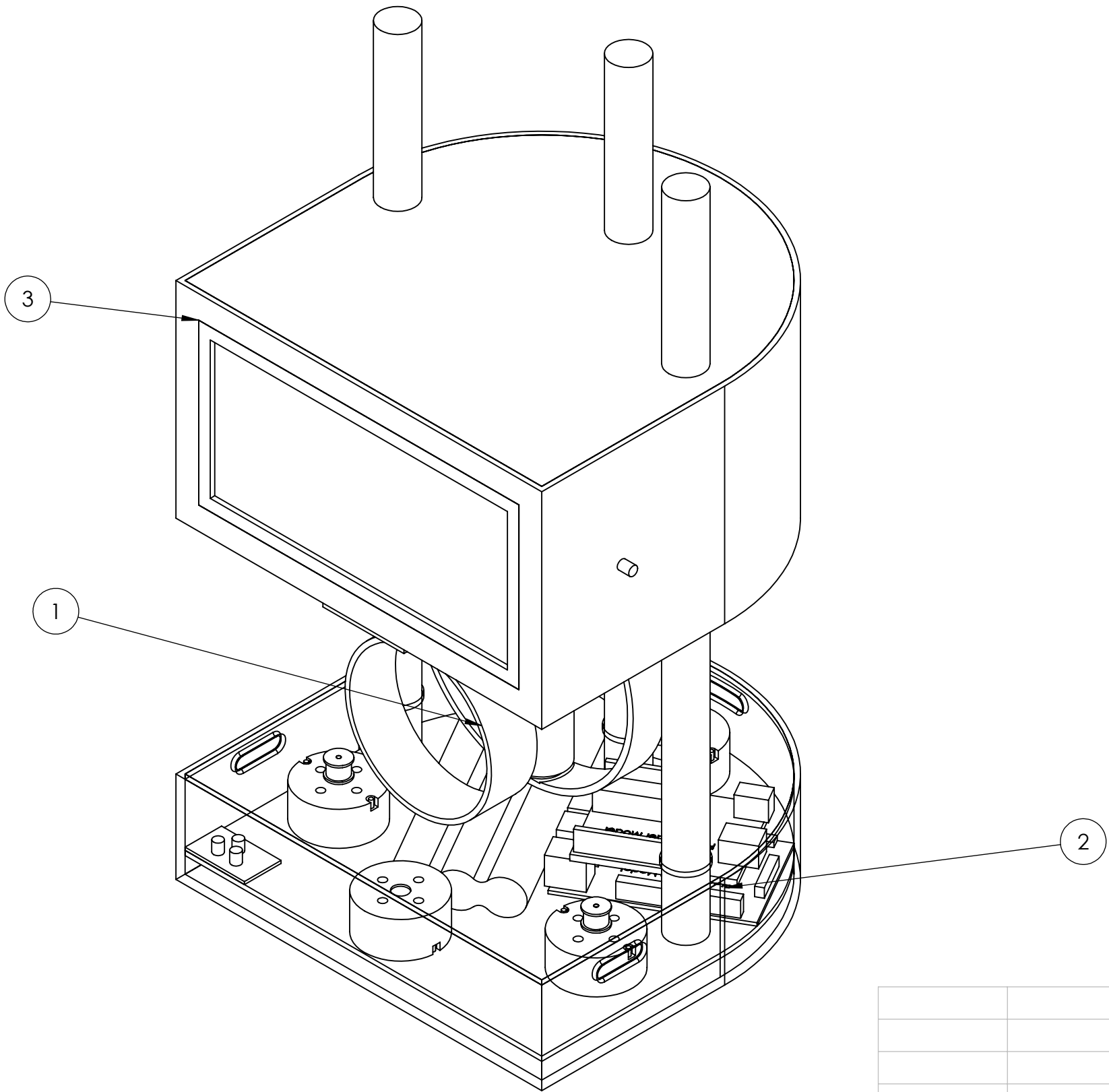
4

3

2

1

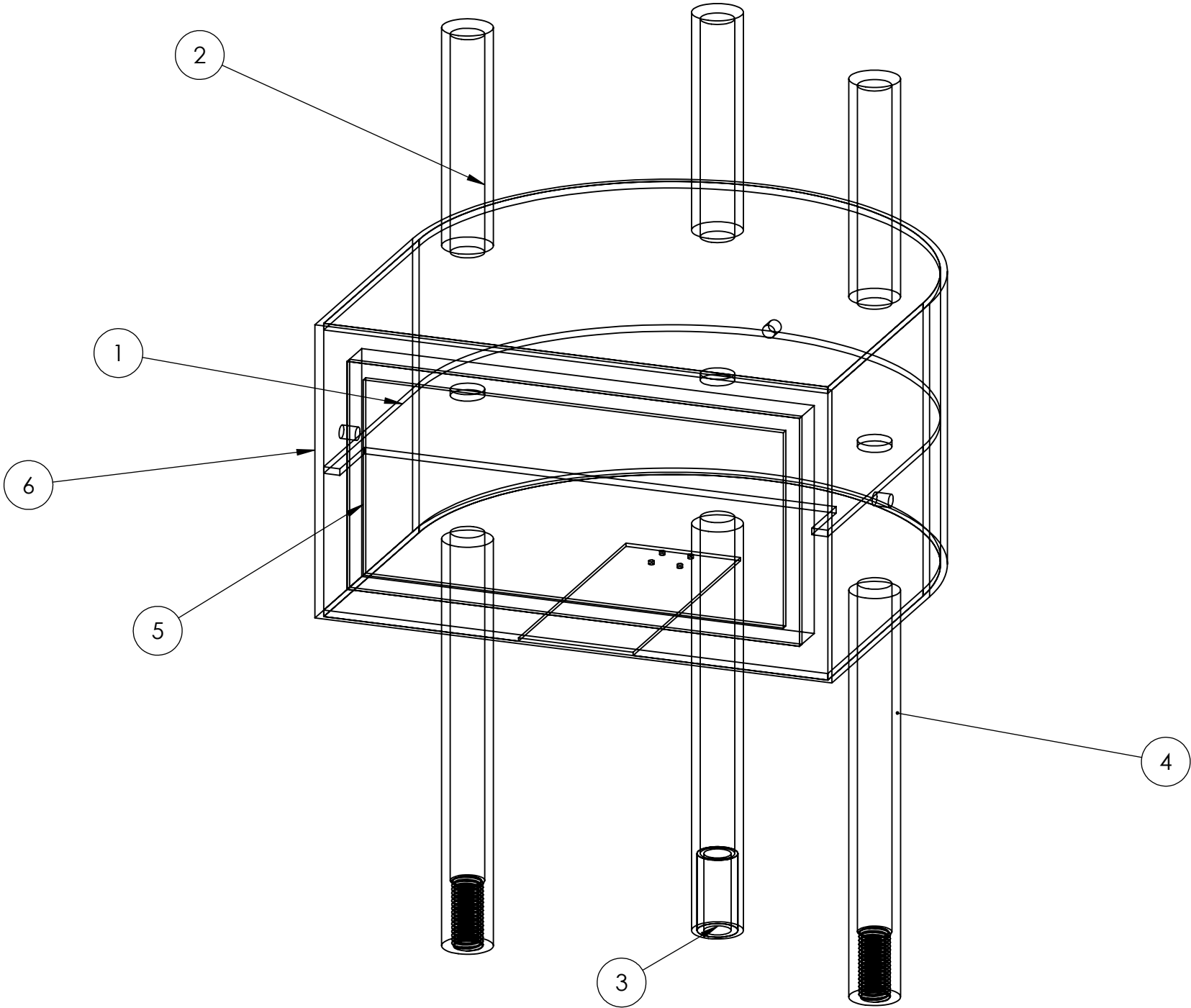
ITEM NO.	PART NUMBER	QTY.
1	Handle Components	1
2	Lower Components	1
3	Top Components	1



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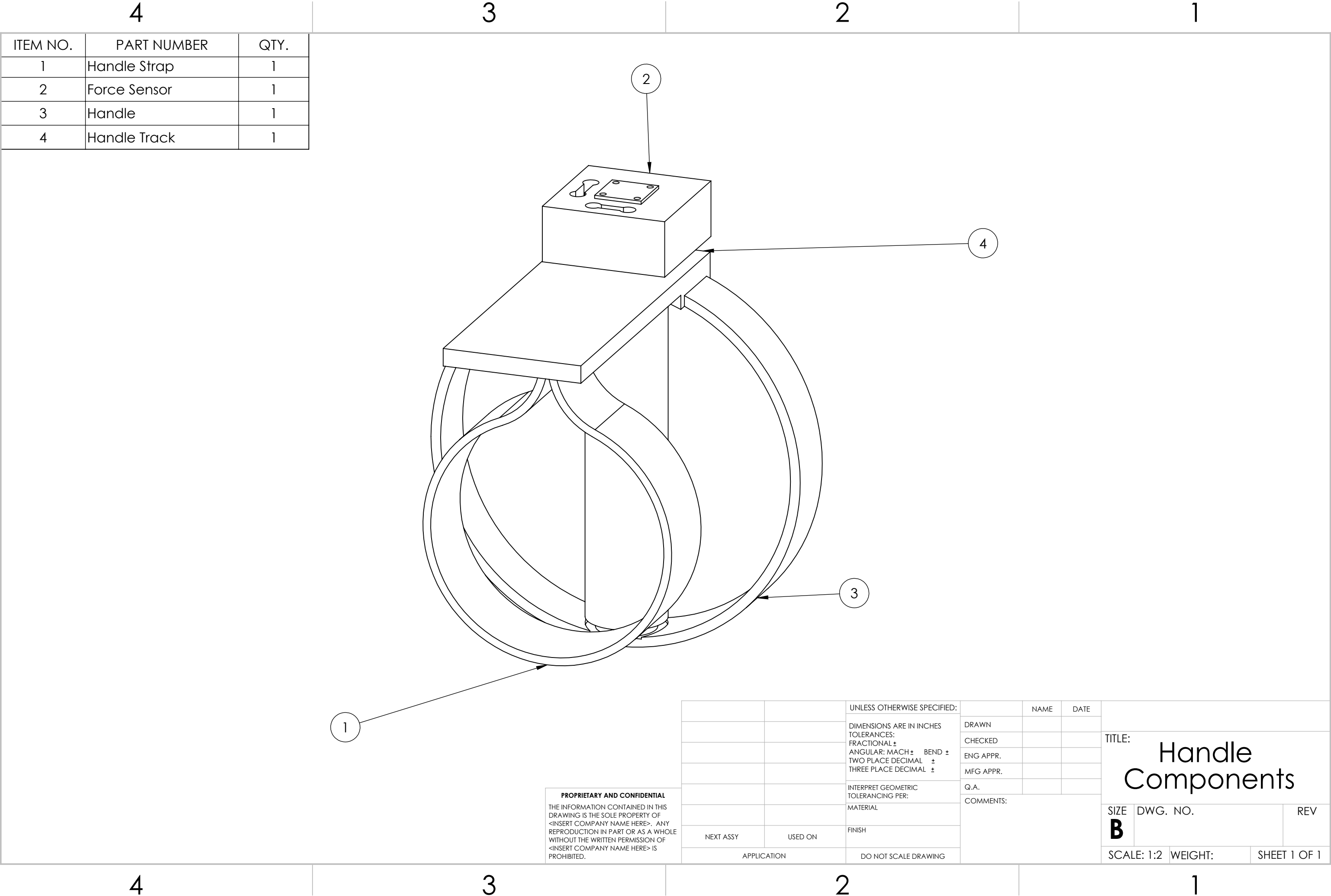
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Flying Squirrel	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL \pm ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm THREE PLACE DECIMAL \pm	DRAWN				
			CHECKED				
			ENG APPR.				
		INTERPRET GEOMETRIC TOLERANCING PER:	MFG APPR.			SIZE DWG. NO. REV	
		MATERIAL	Q.A.				
NEXT ASSY	USED ON	FINISH	COMMENTS:			SCALE: 1:4 WEIGHT: SHEET 1 OF 1	
APPLICATION		DO NOT SCALE DRAWING					

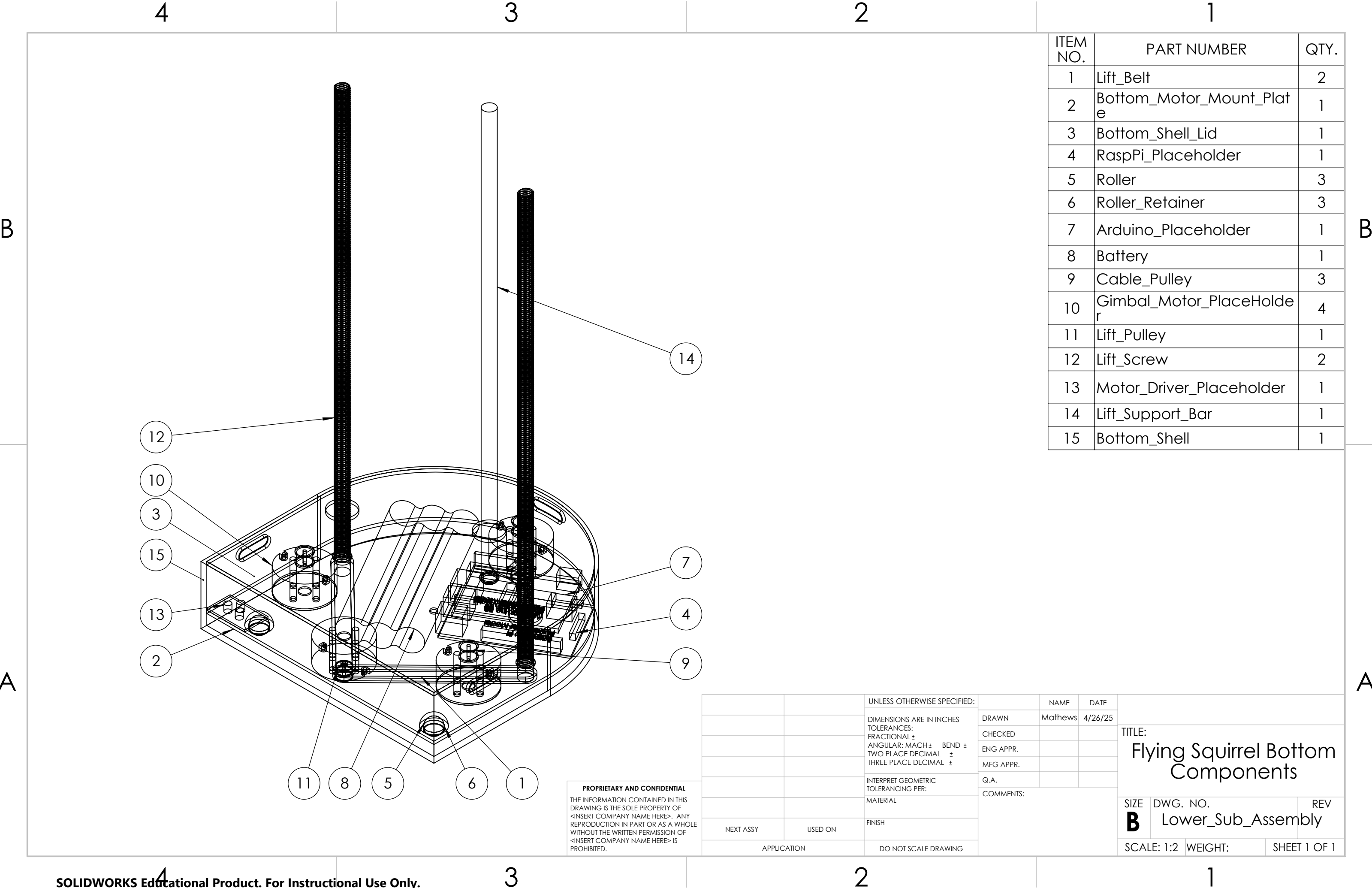
4		
ITEM NO.	PART NUMBER	QTY.
1	Top Mid Plate	1
2	Top Lid	1
3	Linear Bearing	1
4	Top Mount Plate With Lift Rods	1
5	Screen	1
6	Top Shell	1



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Top Components	
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL \pm ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm THREE PLACE DECIMAL \pm	DRAWN				
		INTERPRET GEOMETRIC TOLERANCING PER:	CHECKED				
		MATERIAL	ENG APPR.				
		FINISH	MFG APPR.				
NEXT ASSY	USED ON		Q.A.			SIZE B	DWG. NO.
APPLICATION		DO NOT SCALE DRAWING	COMMENTS:			SCALE: 1:4	WEIGHT:
						SHEET 1 OF 1	

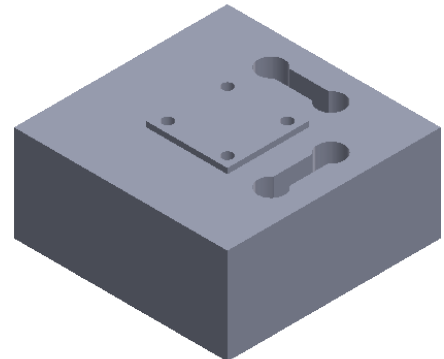
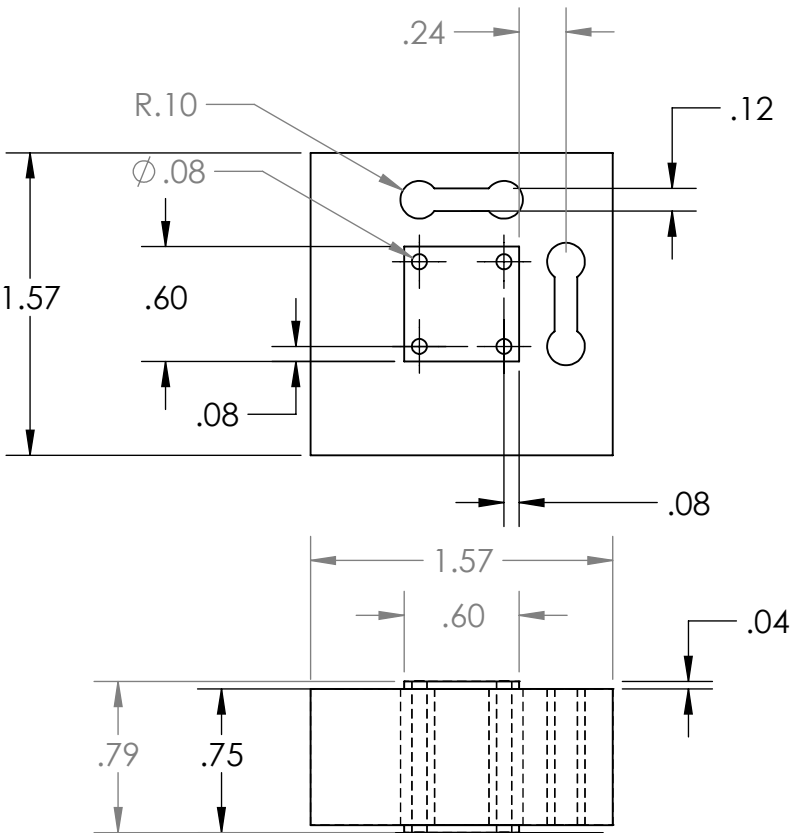
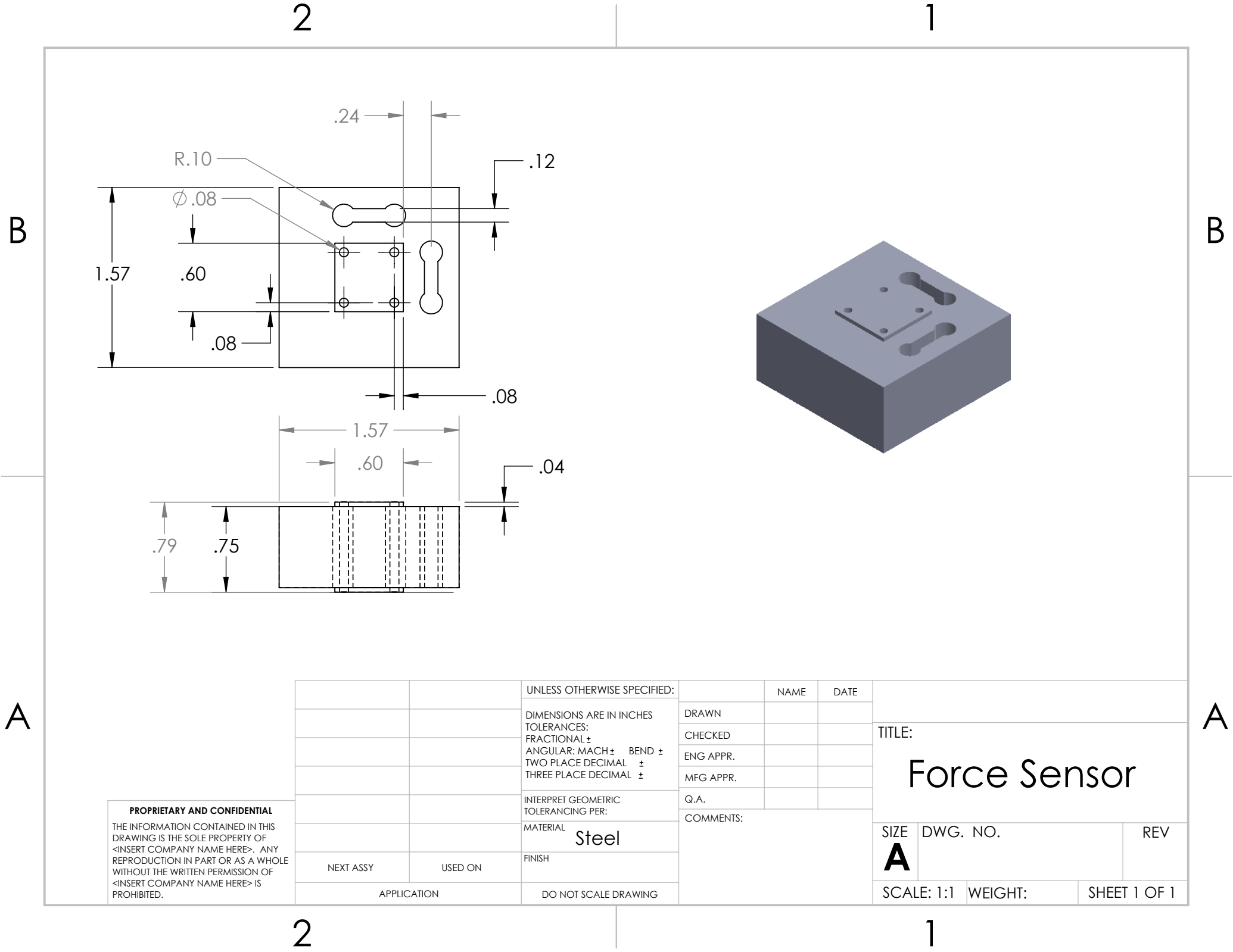




ITEM NO.	PART NUMBER	QTY.
1	Lift_Belt	2
2	Bottom_Motor_Mount_Plate	1
3	Bottom_Shell_Lid	1
4	RaspPi_Placeholder	1
5	Roller	3
6	Roller_Retainer	3
7	Arduino_Placeholder	1
8	Battery	1
9	Cable_Pulley	3
10	Gimbal_Motor_PlaceHolder	4
11	Lift_Pulley	1
12	Lift_Screw	2
13	Motor_Driver_Placeholder	1
14	Lift_Support_Bar	1
15	Bottom_Shell	1

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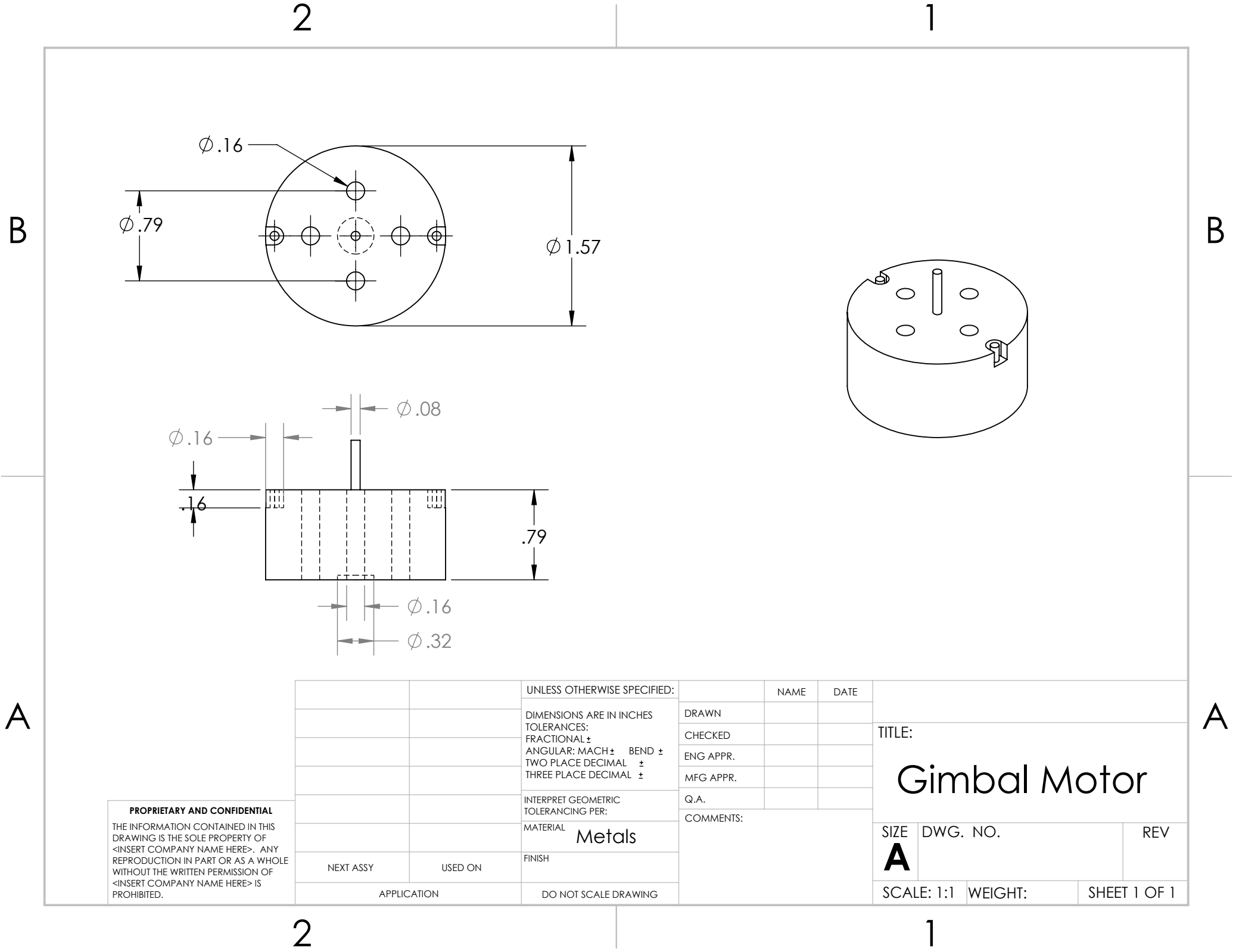
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Flying Squirrel Bottom Components	
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25		
		TOLERANCES:	CHECKED				
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV B Lower_Sub_Assembly	
		THREE PLACE DECIMAL ±	COMMENTS:				
		INTERPRET GEOMETRIC TOLERANCING PER:					
		MATERIAL				SCALE: 1:2	WEIGHT:
NEXT ASSY	USED ON	FINISH					SHEET 1 OF 1
APPLICATION		DO NOT SCALE DRAWING					



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		Steel			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Force Sensor		
SIZE	DWG. NO.	REV
A		
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1

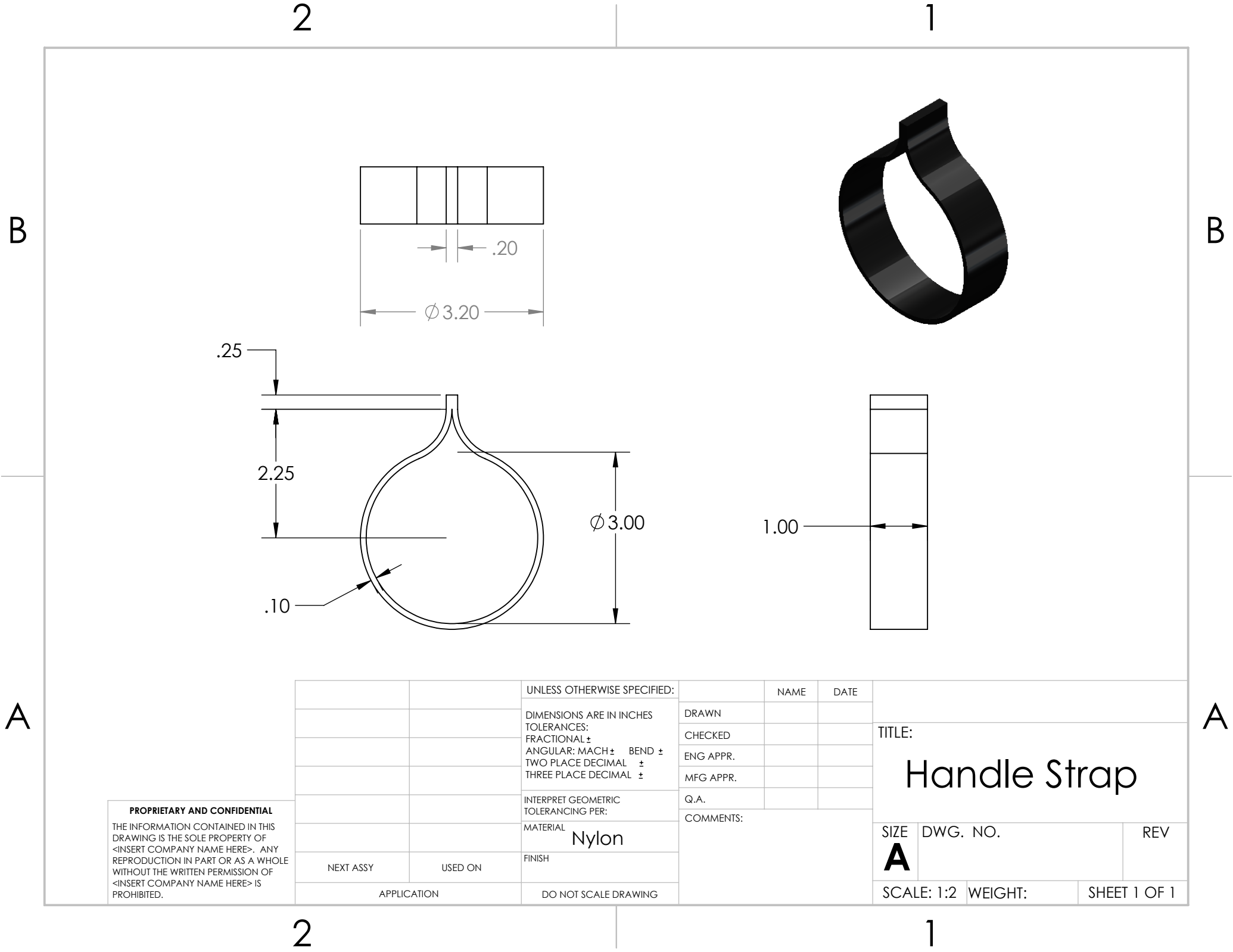


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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL Metals
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Gimbal Motor		
SIZE	DWG. NO.	REV
A		
SCALE: 1:1	WEIGHT:	SHEET 1 OF 1



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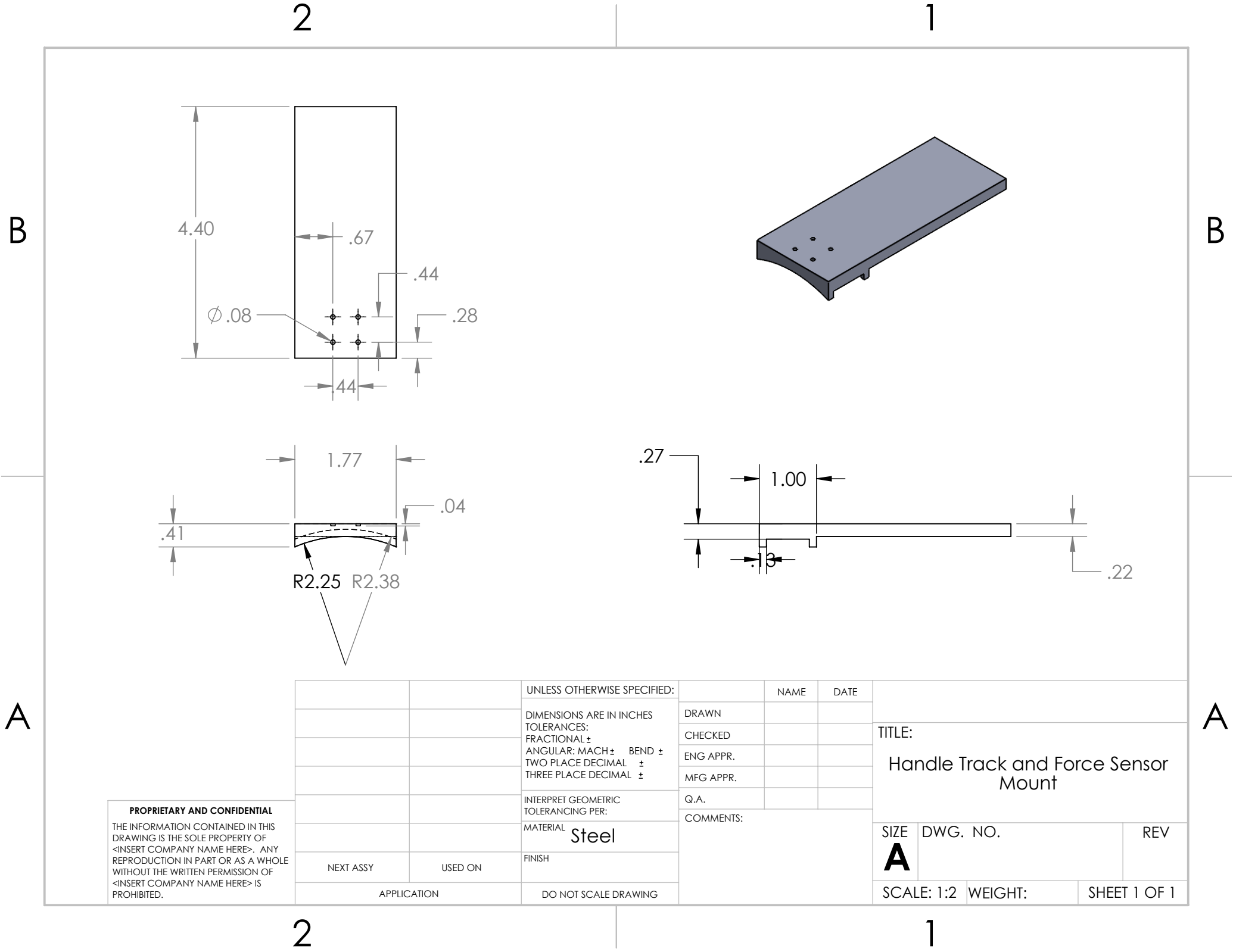
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL Nylon
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Handle Strap		
SIZE	DWG. NO.	REV
A		
SCALE: 1:2	WEIGHT:	SHEET 1 OF 1



A

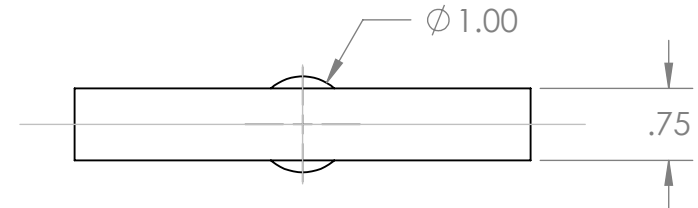
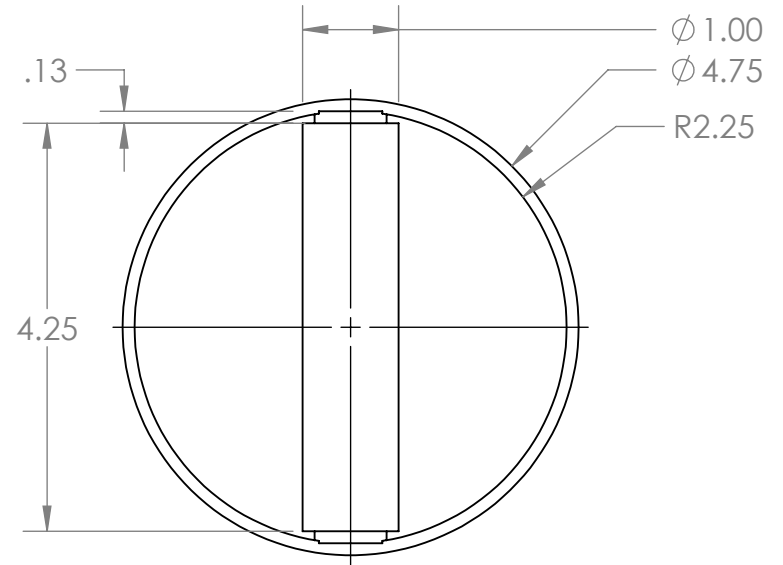
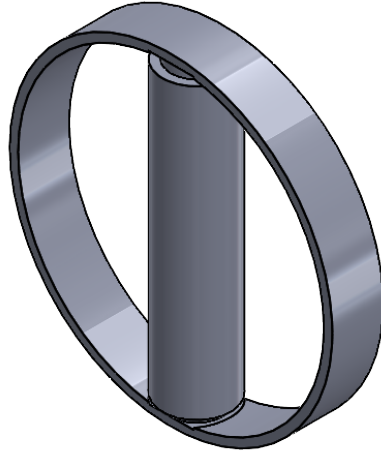
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Handle Track and Force Sensor Mount		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE A		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				DWG. NO.		REV
		MATERIAL Steel						
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION		DO NOT SCALE DRAWING			SCALE: 1:2	WEIGHT:	SHEET 1 OF 1

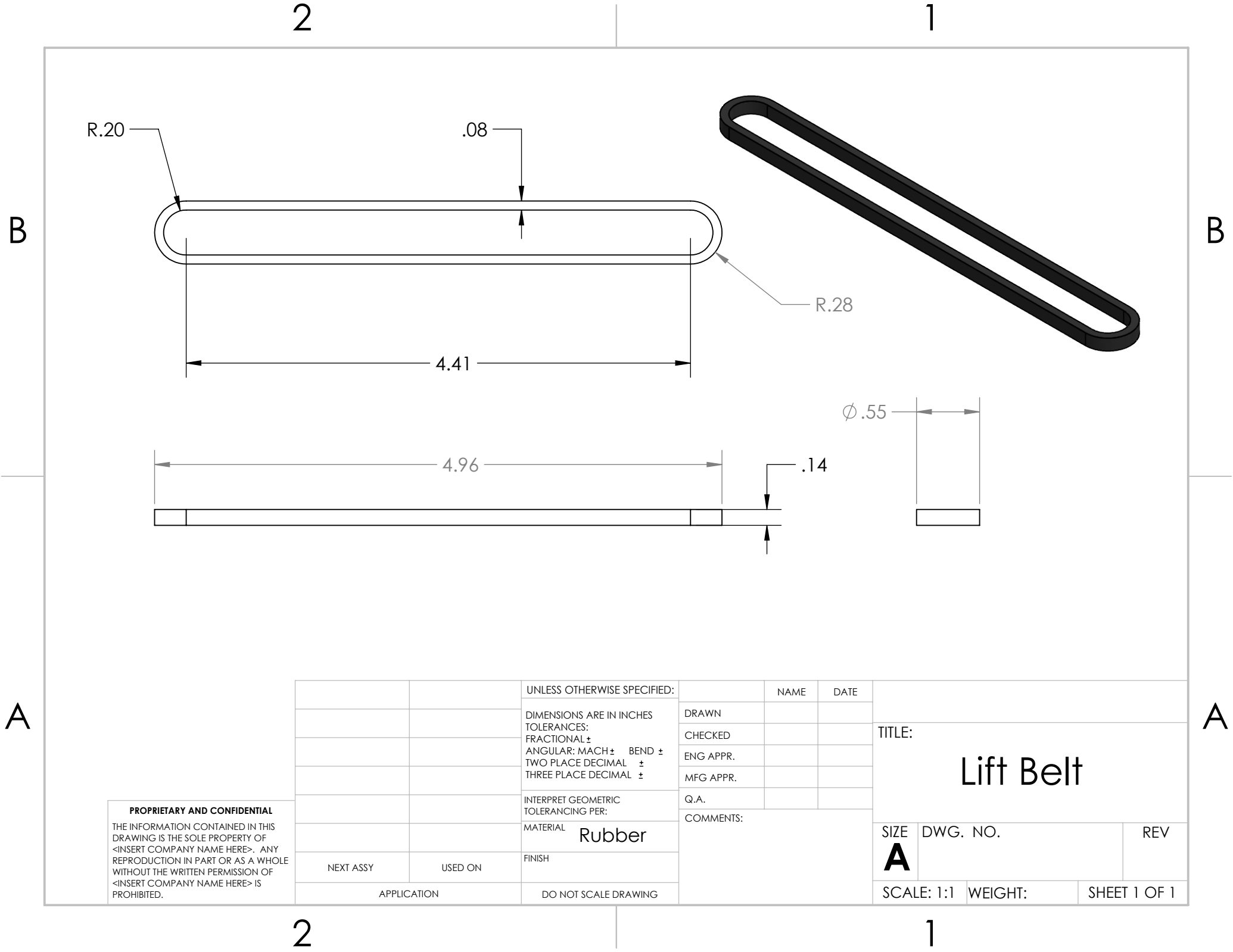
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1



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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: Flying Squirrel Handle	
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews		
		TOLERANCES:	CHECKED			
		FRACTIONAL ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.		SIZE DWG. NO. REV	
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL PLA				
		FINISH				
NEXT ASSY	USED ON	APPLICATION	DO NOT SCALE DRAWING			



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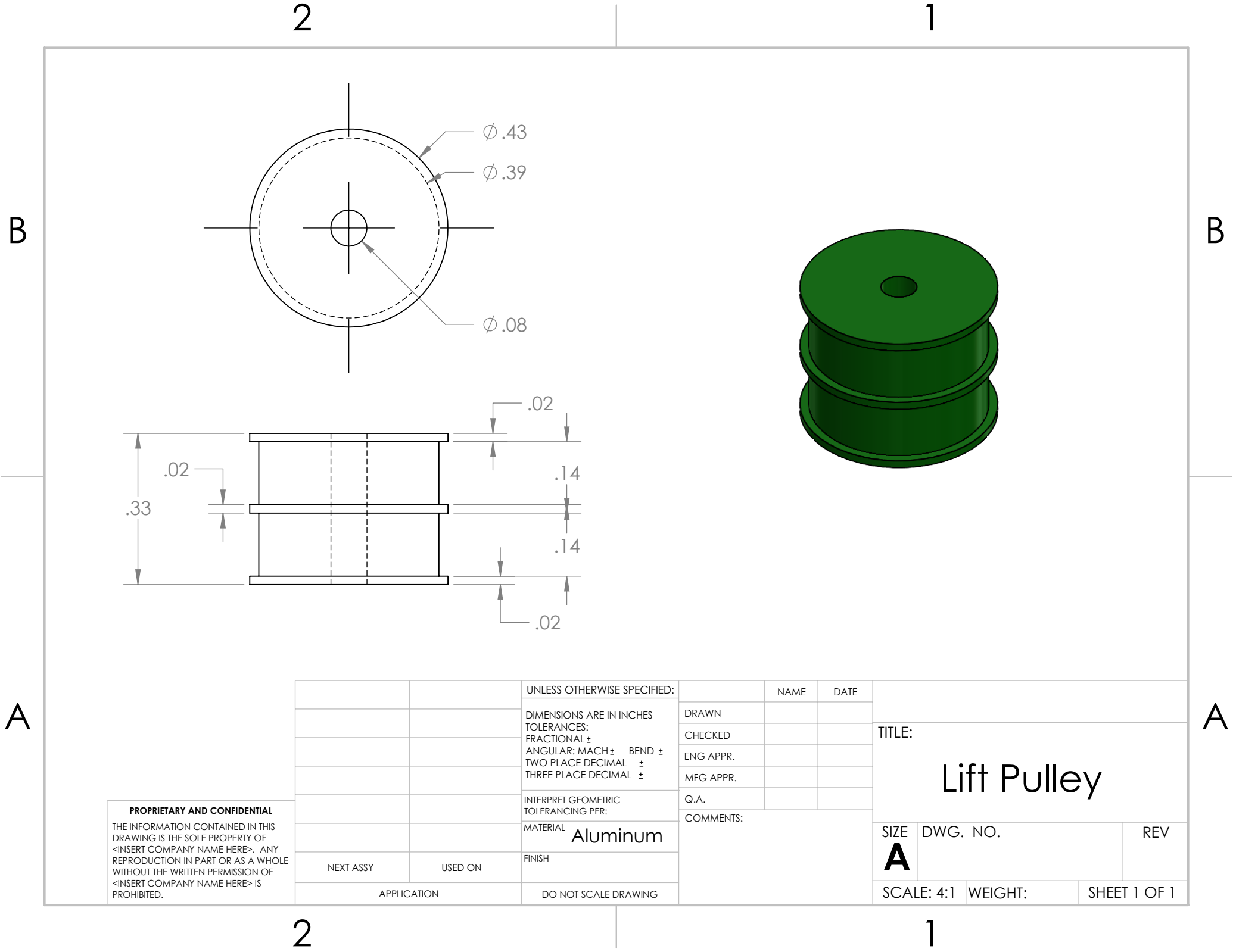
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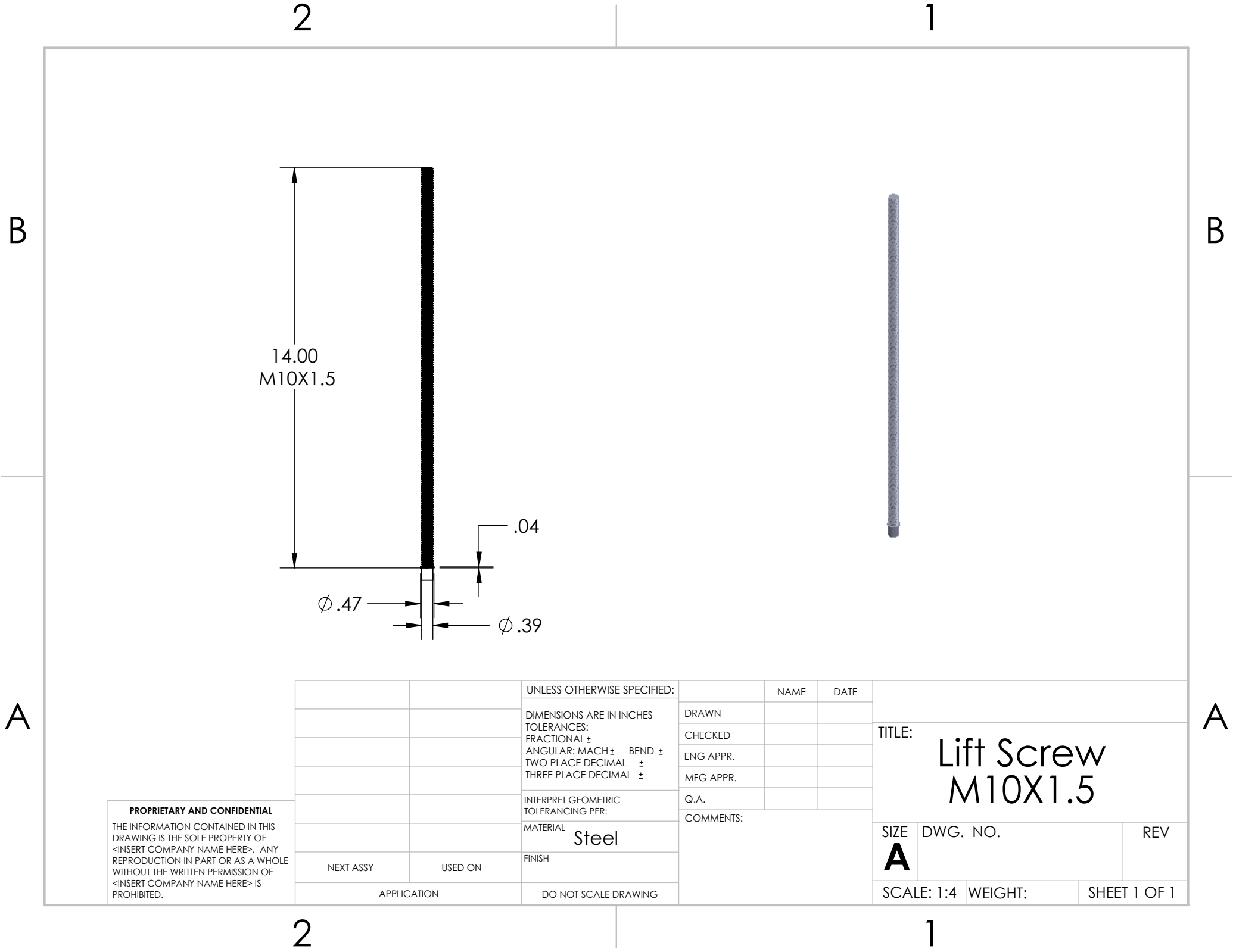
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <h1>Lift Belt</h1>		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV <h1>A</h1>		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL <h1>Rubber</h1>						
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:1 WEIGHT: SHEET 1 OF 1		
APPLICATION		DO NOT SCALE DRAWING						

2

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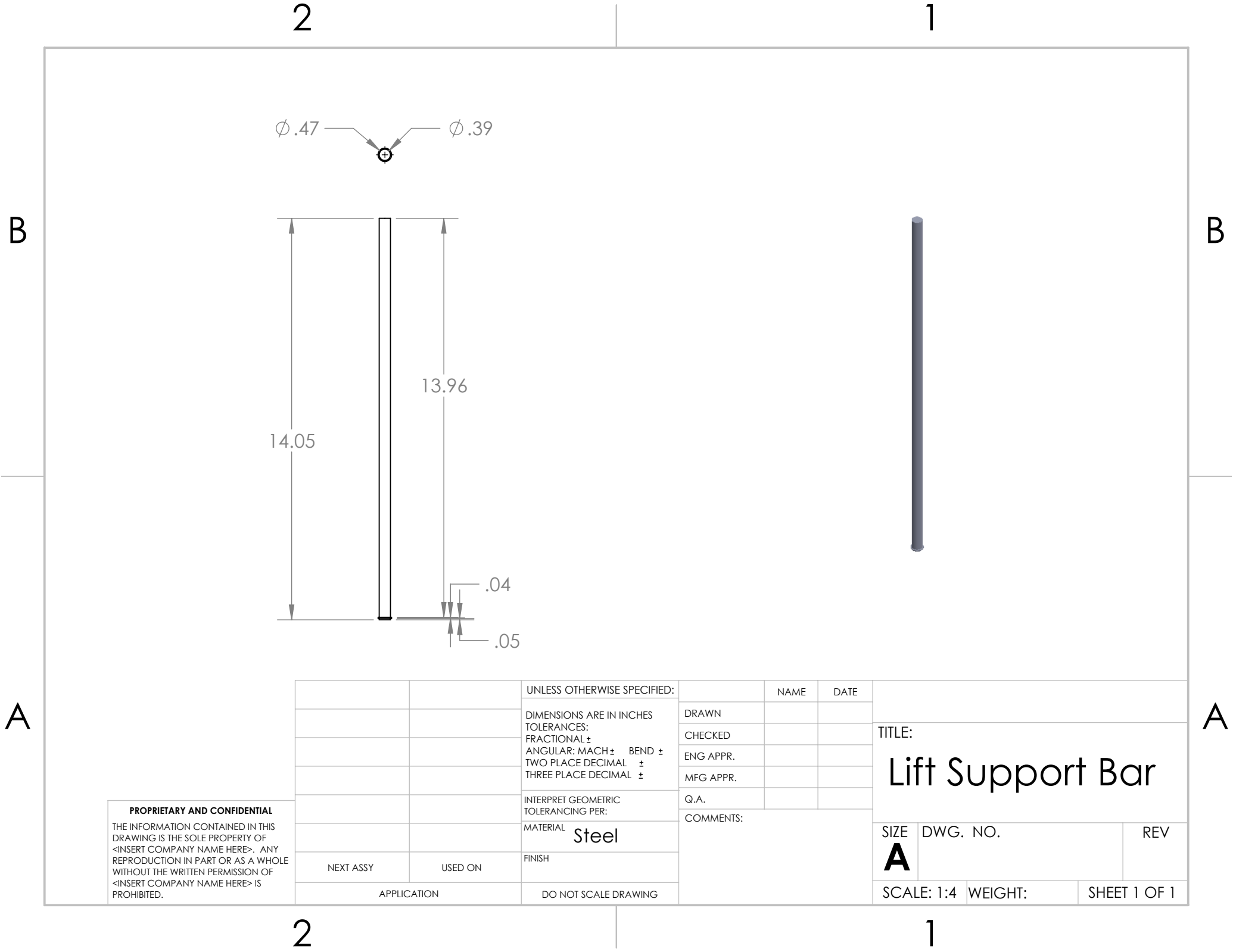
		UNLESS OTHERWISE SPECIFIED:	DRAWN	NAME	DATE	TITLE: <div>Lift Screw M10X1.5</div>		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:			SIZE	DWG. NO.	REV
		Steel				A		
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

2

1

2

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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL Steel
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

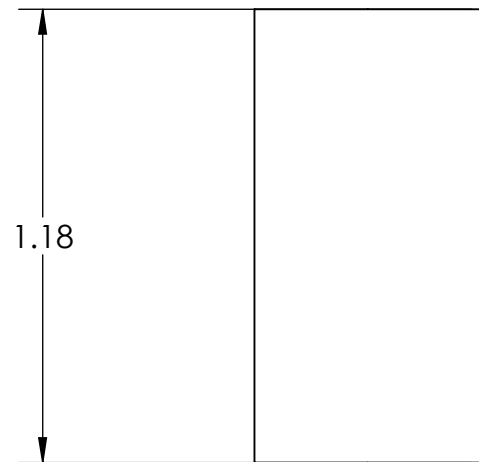
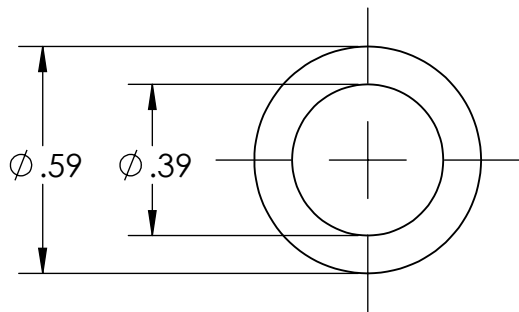
TITLE:		
Lift Support Bar		
SIZE	DWG. NO.	REV
A		
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1

2

1

B

A



B

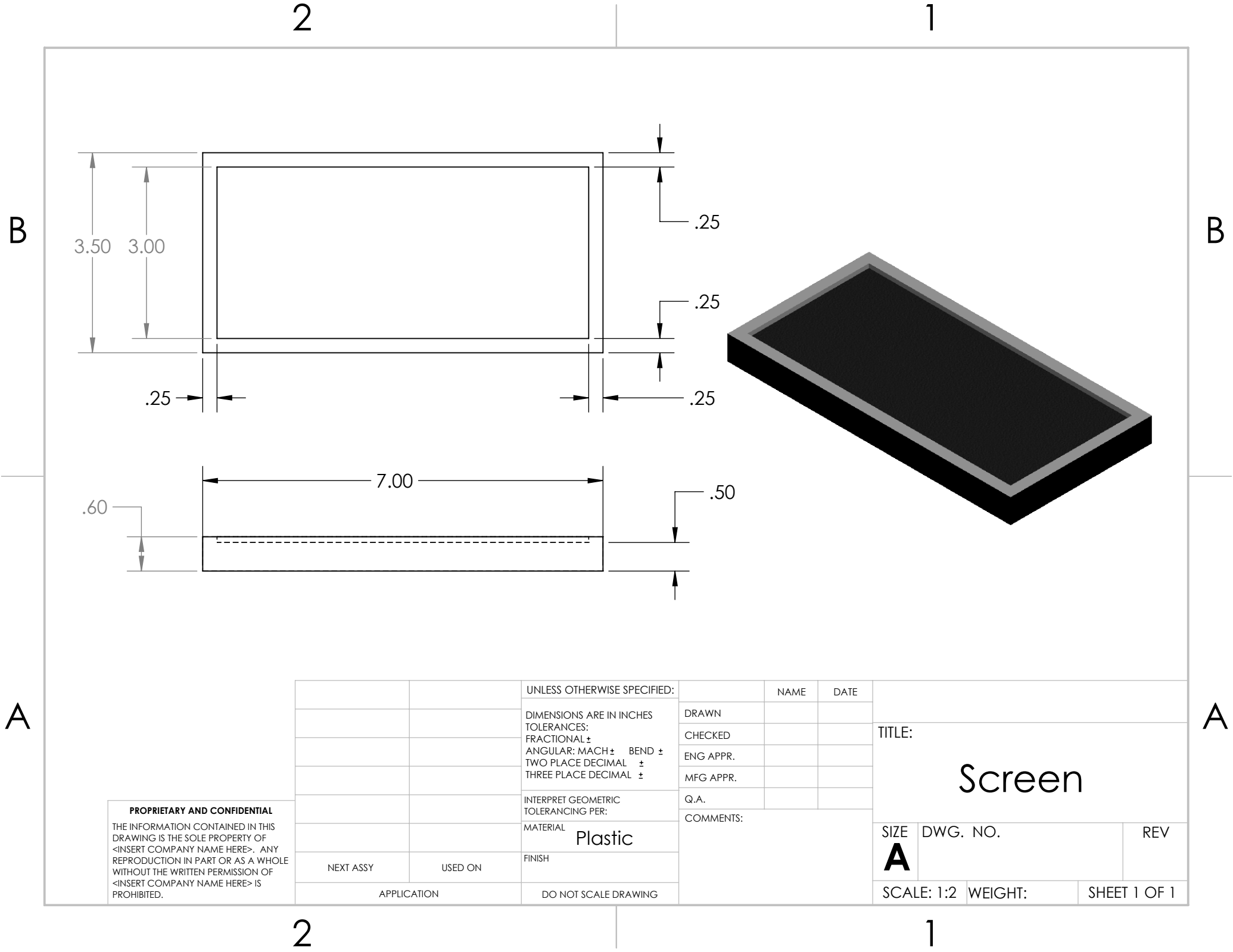
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Linear Bearing		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL \pm	ENG APPR.					
		ANGULAR: MACH \pm BEND \pm	MFG APPR.					
		TWO PLACE DECIMAL \pm	Q.A.			SIZE A		
		THREE PLACE DECIMAL \pm	COMMENTS:					
		INTERPRET GEOMETRIC				REV		
		TOLERANCING PER:						
		MATERIAL Steel						
NEXT ASSY	USED ON	FINISH				SCALE: 2:1		
APPLICATION		DO NOT SCALE DRAWING				WEIGHT:		
						SHEET 1 OF 1		

2

1



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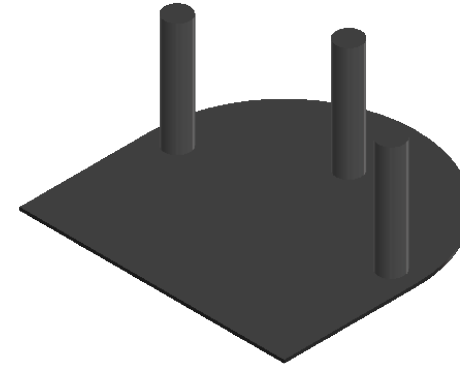
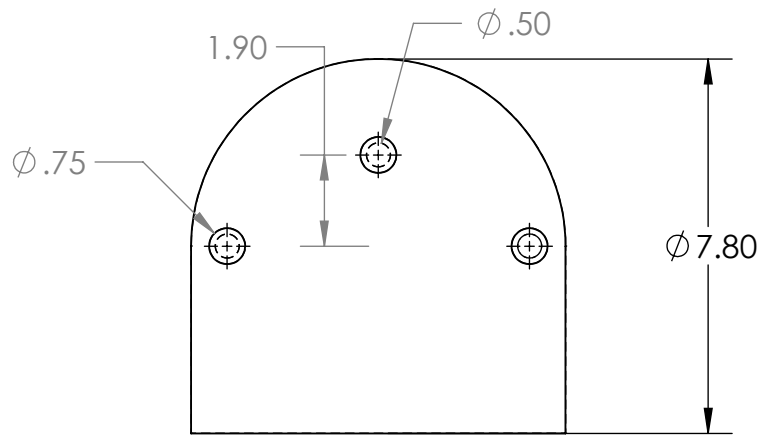
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Screen		
		DIMENSIONS ARE IN INCHES	DRAWN					
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV A		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:						
		MATERIAL	Plastic			SCALE: 1:2 WEIGHT: SHEET 1 OF 1		
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

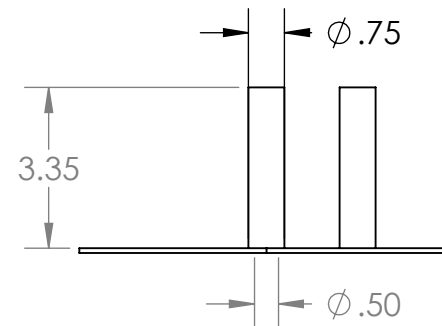
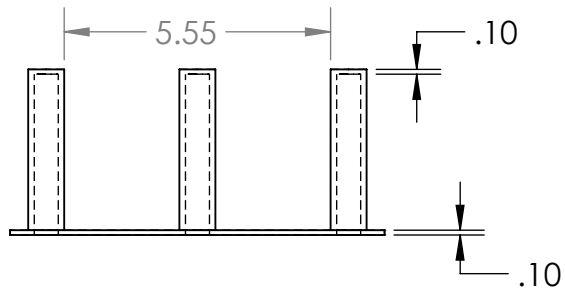
2

1

B



B



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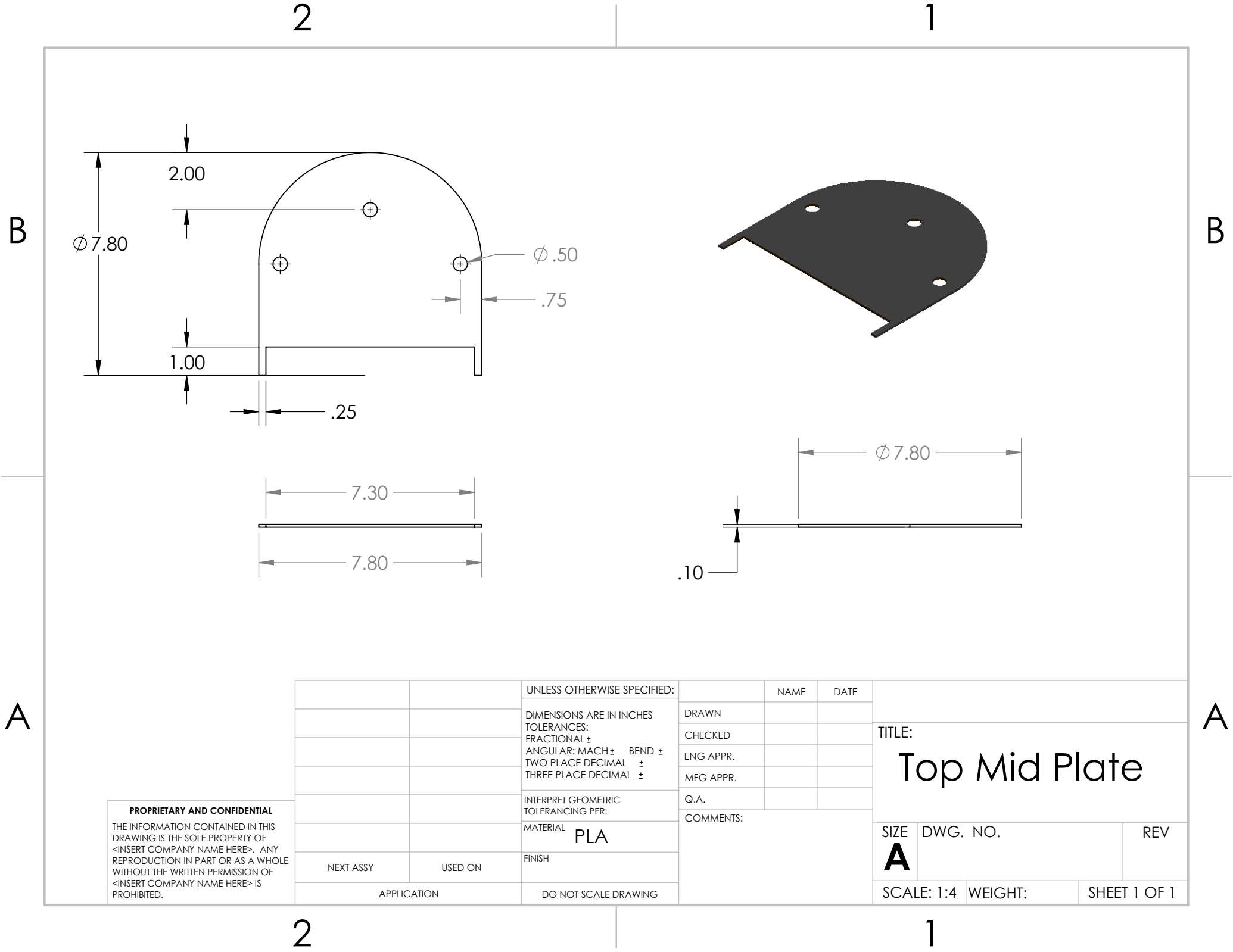
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Top Lid									
		DIMENSIONS ARE IN INCHES	DRAWN												
		TOLERANCES:	CHECKED												
		FRACTIONAL ±	ENG APPR.												
		ANGULAR: MACH± BEND ±	MFG APPR.												
		TWO PLACE DECIMAL ±	Q.A.			SIZE A			DWG. NO.		REV				
		THREE PLACE DECIMAL ±											COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:													
		MATERIAL PLA													
		FINISH													
NEXT ASSY	USED ON					SCALE: 1:4 WEIGHT:						SHEET 1 OF 1			
APPLICATION		DO NOT SCALE DRAWING													

2

1

A

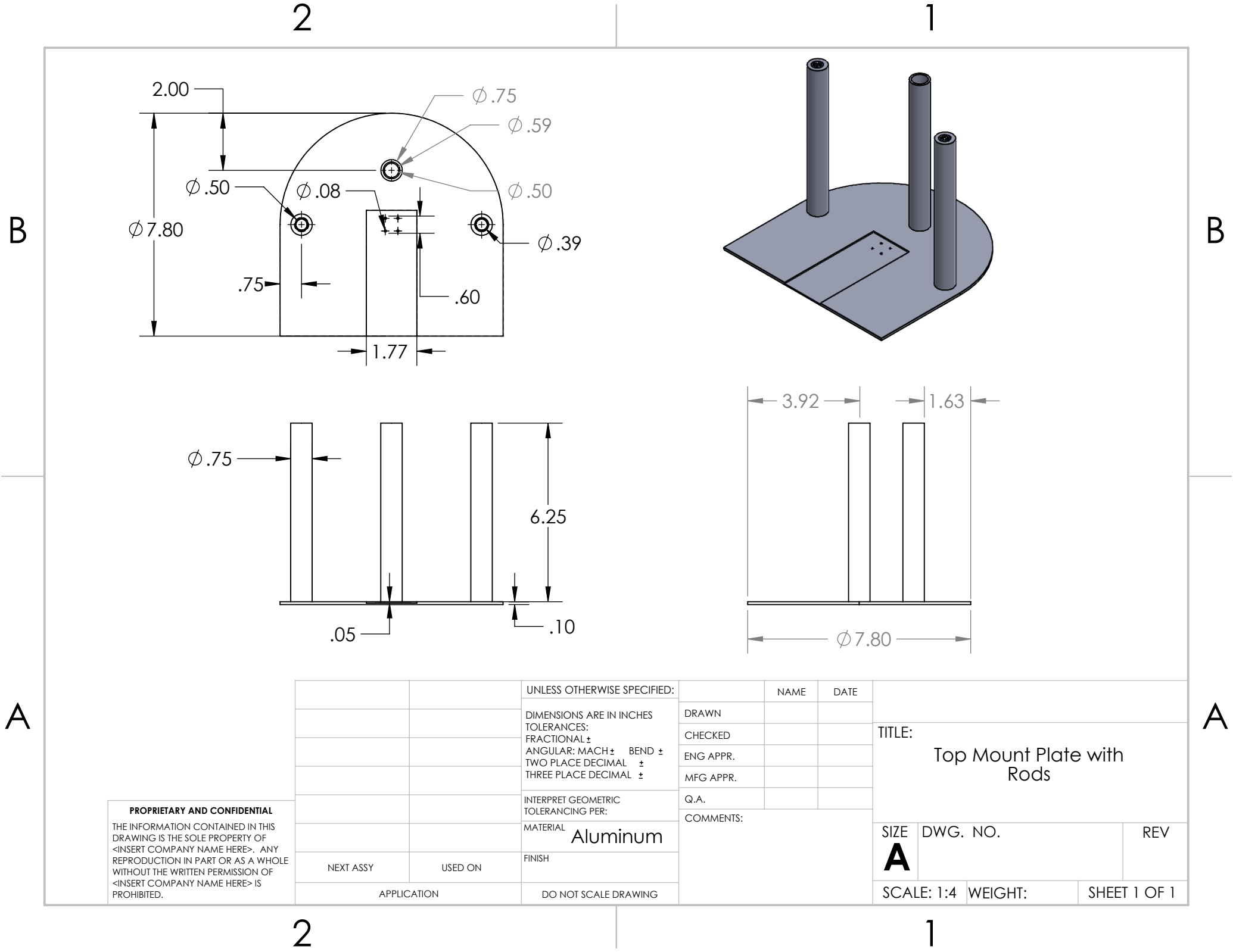


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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL PLA
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Top Mid Plate		
SIZE	DWG. NO.	REV
A		
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1



B

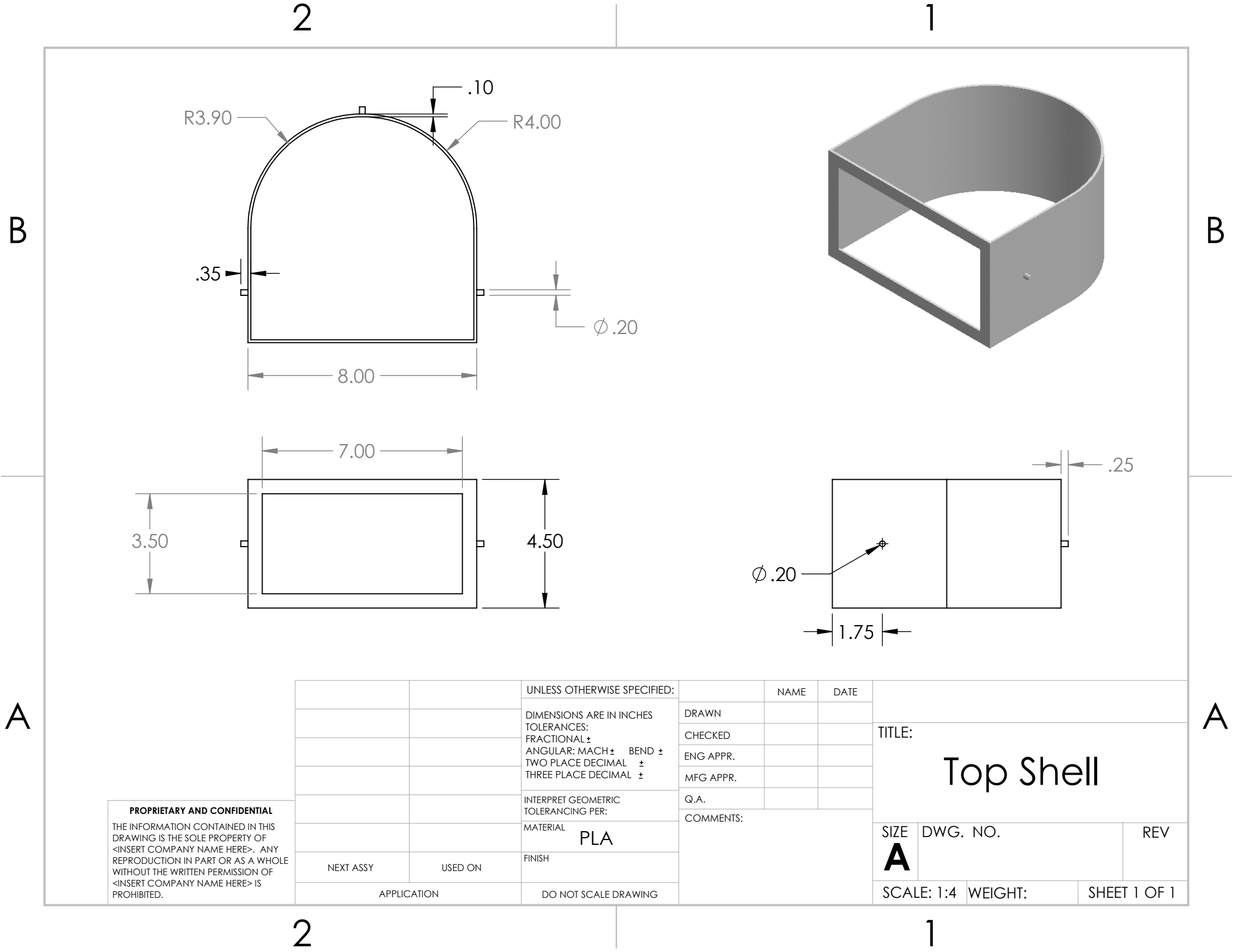
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Top Mount Plate with Rods		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN					
			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A		
		MATERIAL	COMMENTS:					
		Aluminum						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:4 WEIGHT: SHEET 1 OF 1		



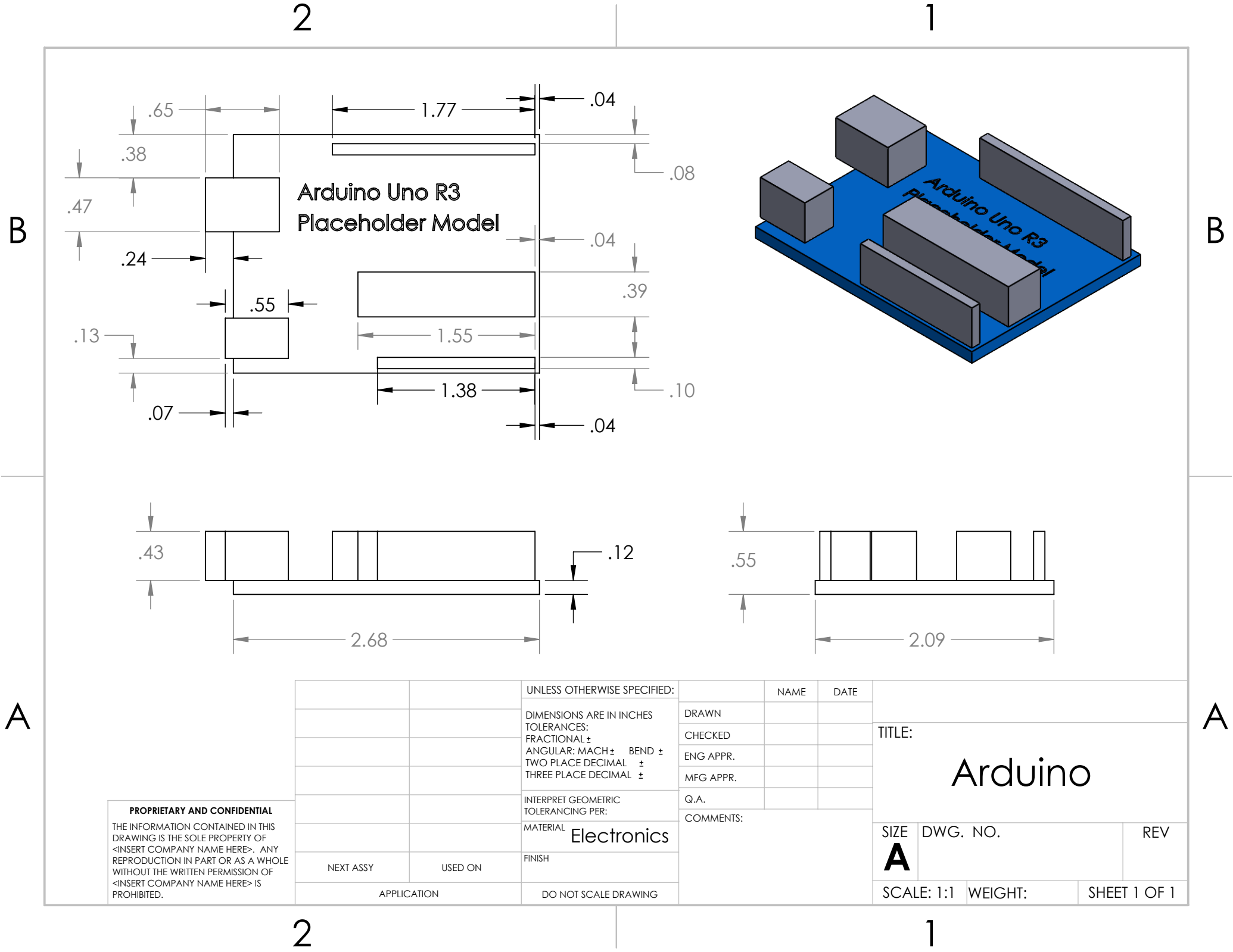
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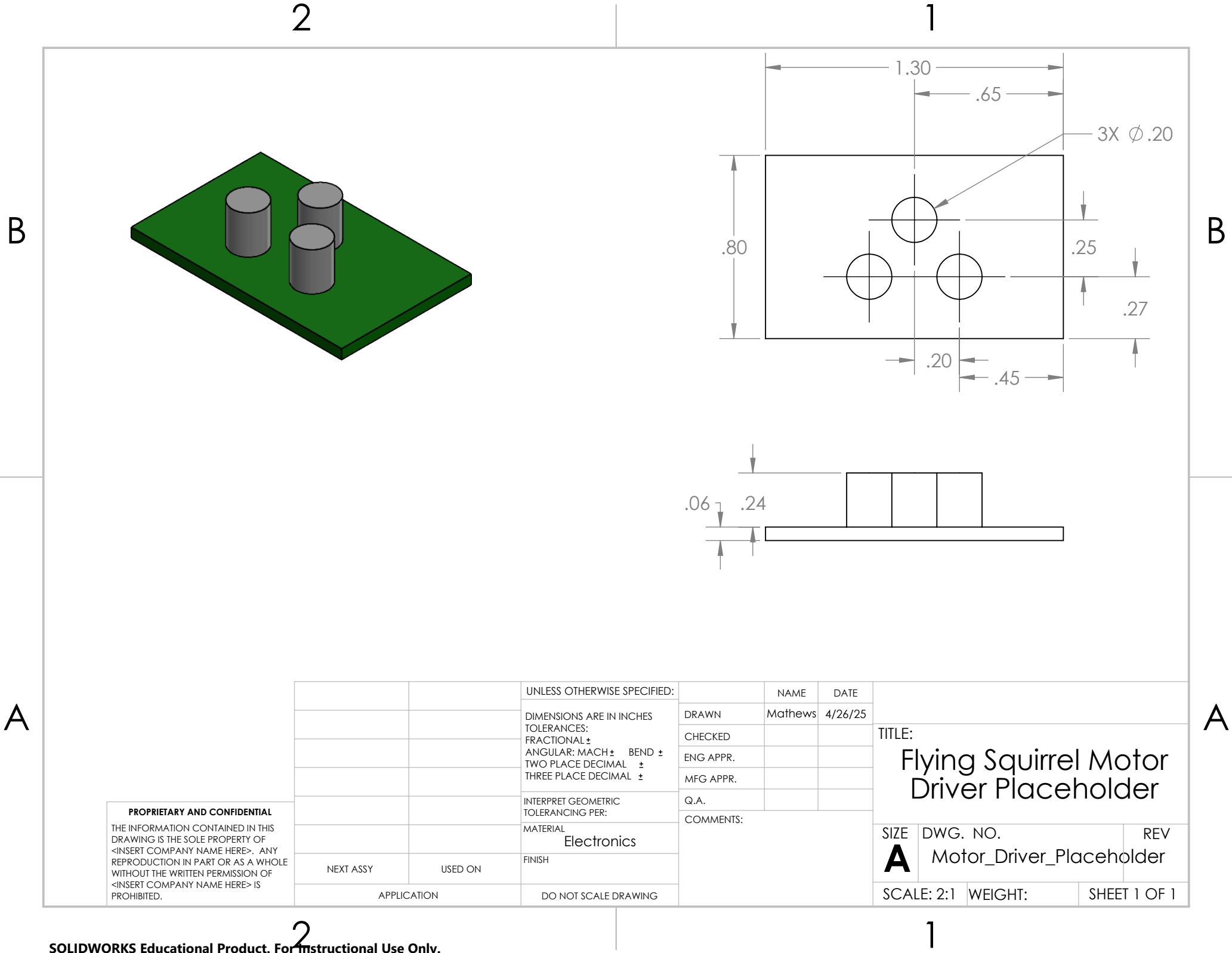
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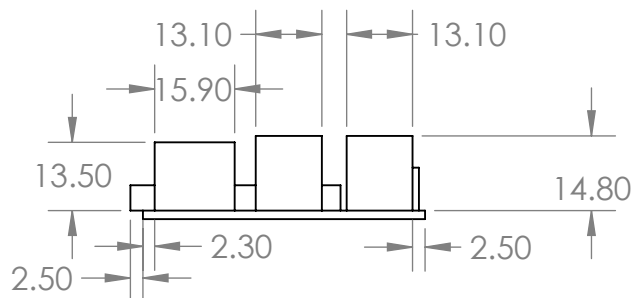
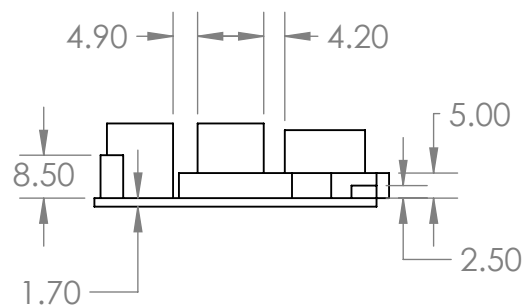
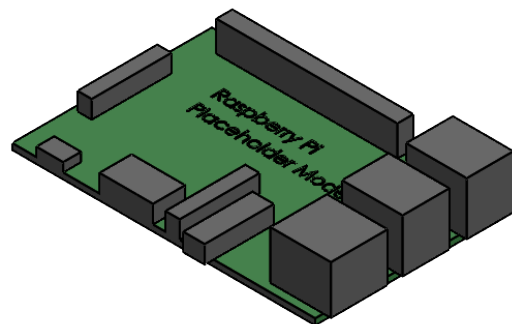
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN		
		TOLERANCES:	CHECKED		
		FRACTIONAL \pm	ENG APPR.		
		ANGULAR: MACH \pm BEND \pm	MFG APPR.		
		TWO PLACE DECIMAL \pm	Q.A.		
		THREE PLACE DECIMAL \pm	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL PLA			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE:		
Top Shell		
SIZE	DWG. NO.	REV
A		
SCALE: 1:4	WEIGHT:	SHEET 1 OF 1





B

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL \pm
ANGULAR: MACH \pm BEND \pm
TWO PLACE DECIMAL \pm
THREE PLACE DECIMAL \pm

INTERPRET GEOMETRIC
TOLERANCING PER:MATERIAL
Electronics

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

Mathews

DATE

4/26/25

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

Flying Squirrel
Raspberry Pi
(Placeholder)

SIZE

A

DWG. NO.

RaspPi_Placeholder

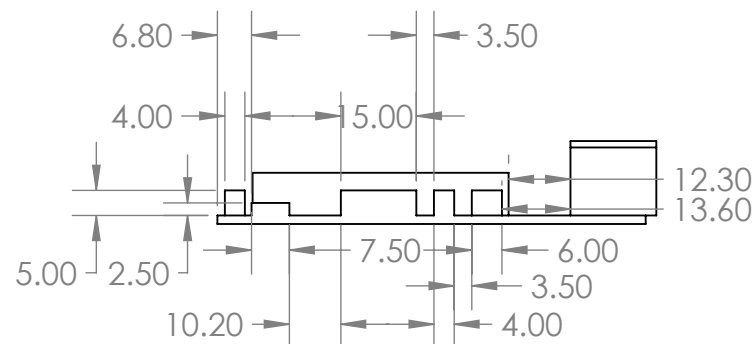
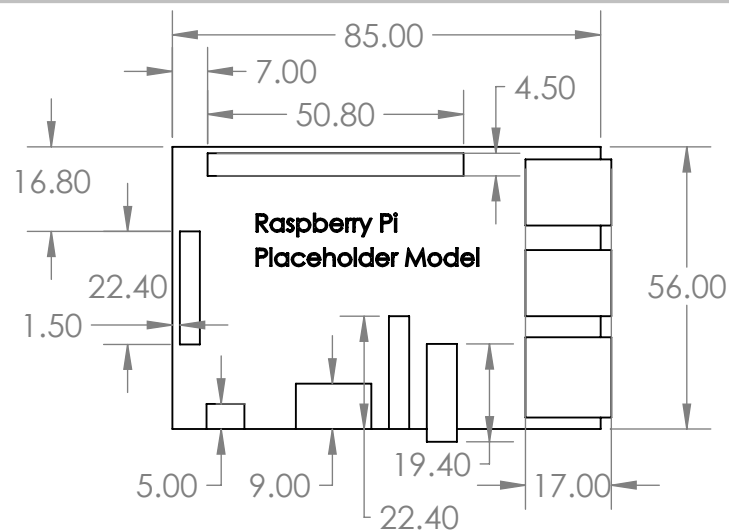
REV

SCALE: 1:1.5

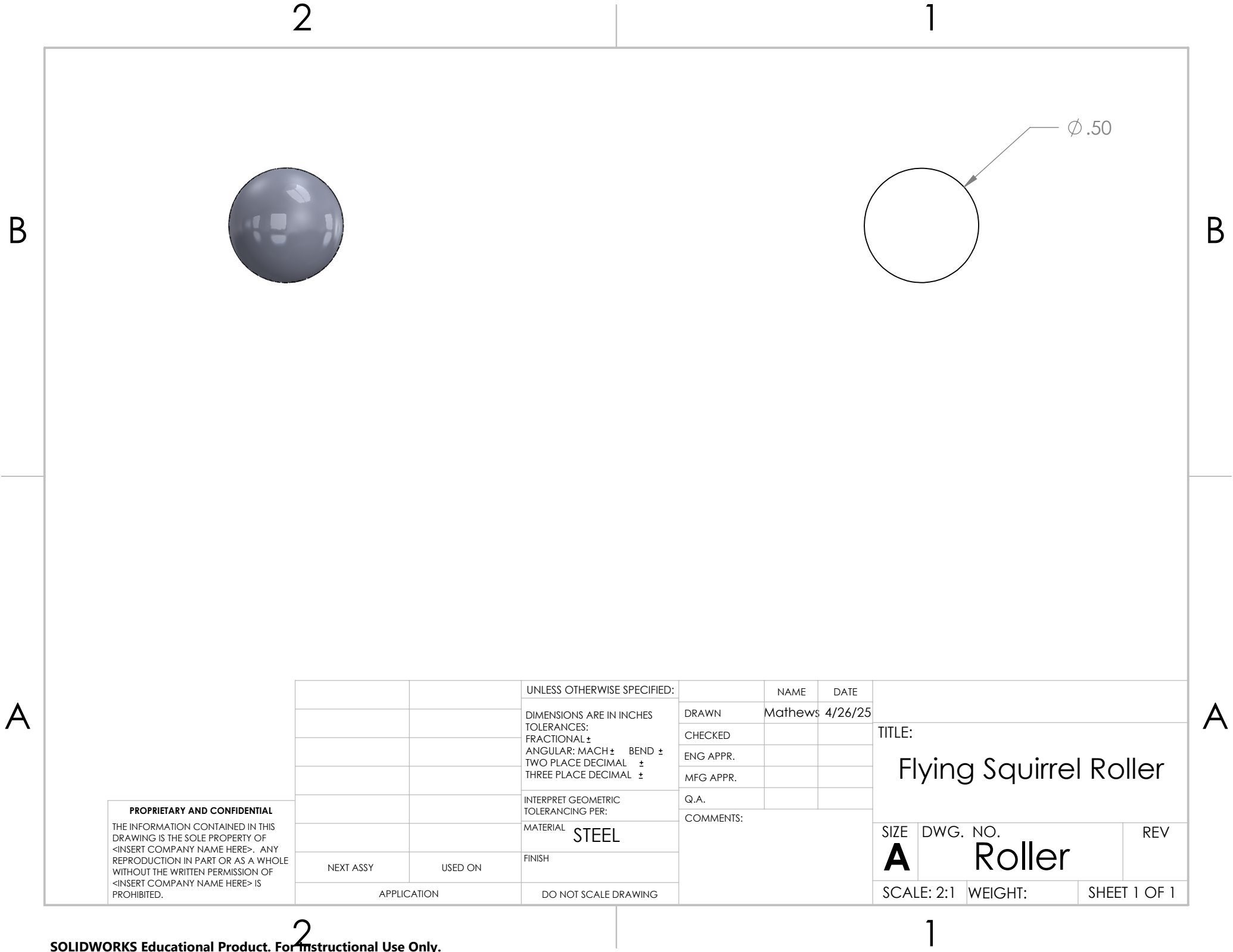
WEIGHT:

SHEET 1 OF 1

B



A



B

B

A

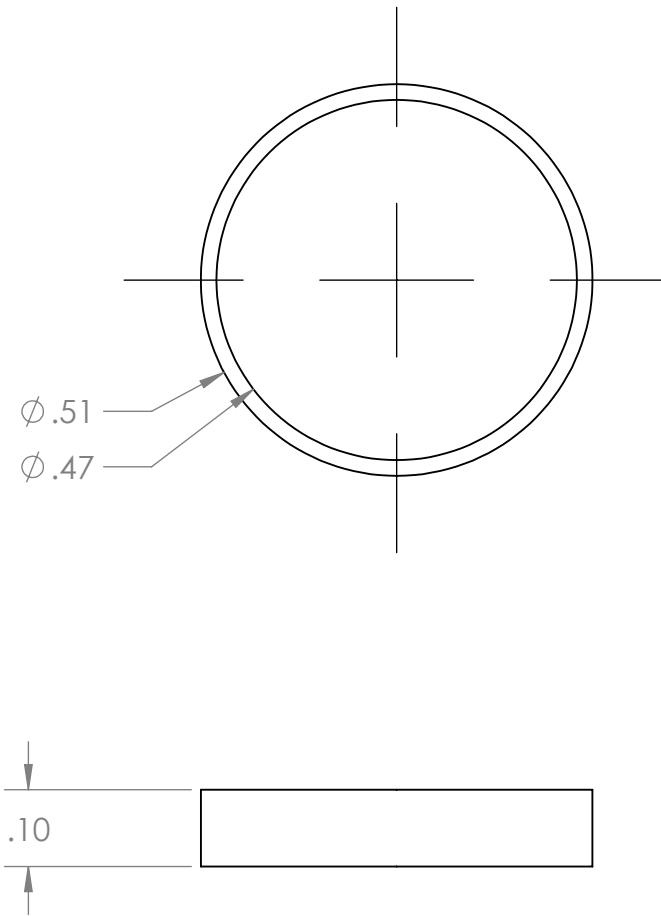
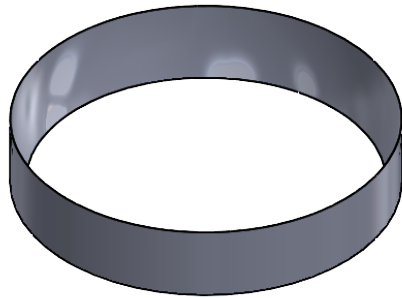
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN INCHES
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC
		TOLERANCING PER:
		MATERIAL STEEL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

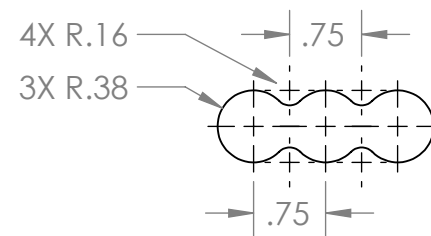
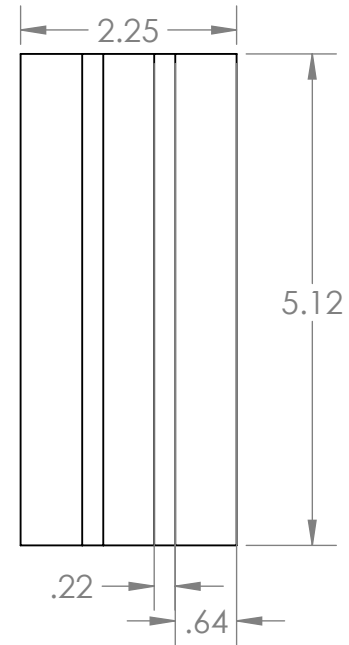
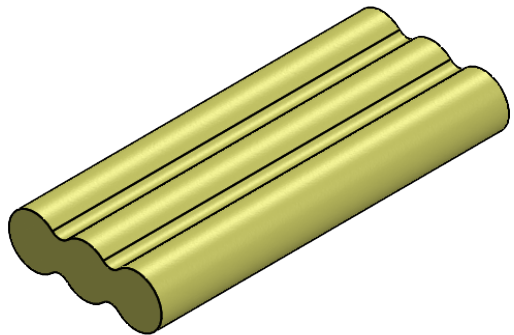
	NAME	DATE
DRAWN	Mathews	4/26/25
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
Flying Squirrel Roller		
SIZE	DWG. NO.	REV
A	Roller	
SCALE: 2:1	WEIGHT:	SHEET 1 OF 1



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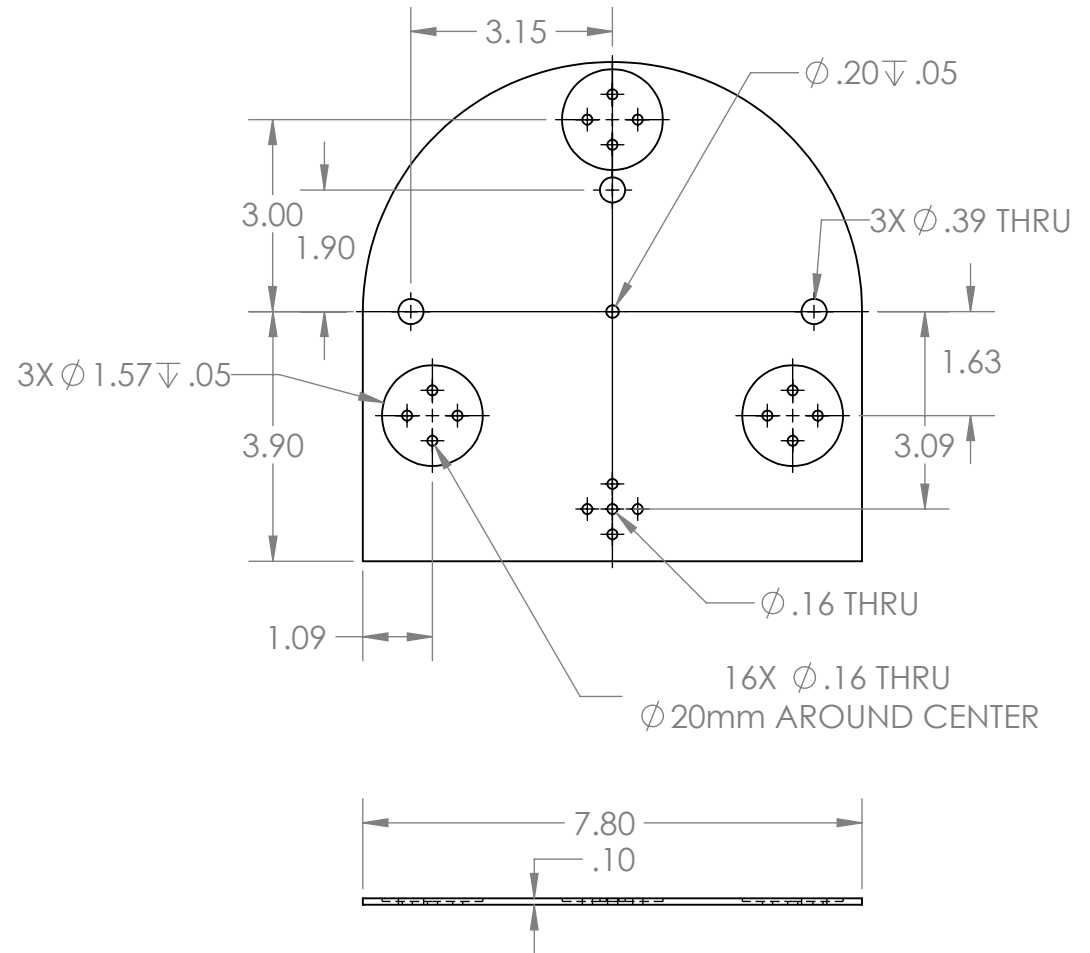
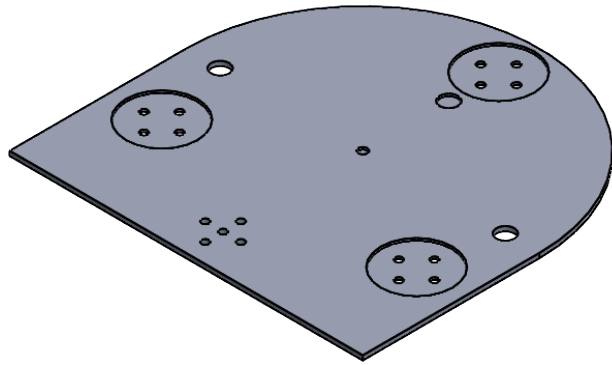
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Flying Squirrel Roller Retainer		
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE DWG. NO. REV A Roller_Retainer		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SCALE: 4:1 WEIGHT: SHEET 1 OF 1		
		MATERIAL Aluminum	COMMENTS:					
NEXT ASSY	USED ON	FINISH						
APPLICATION		DO NOT SCALE DRAWING						



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Flying Squirrel Battery Pack		
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25			
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV A Battery		
		THREE PLACE DECIMAL ±	COMMENTS:					
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2	WEIGHT:	SHEET 1 OF 1
		MATERIAL						
		LiPO						
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						

B



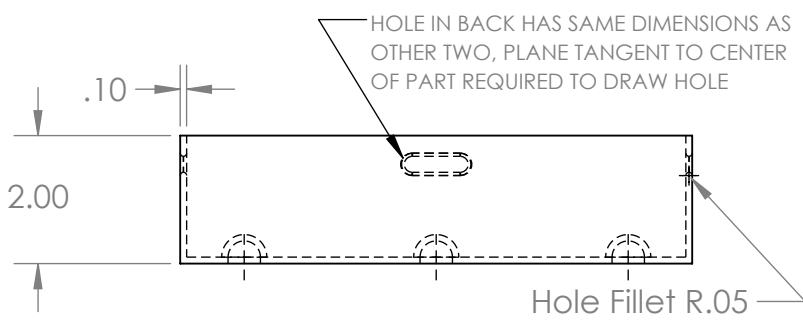
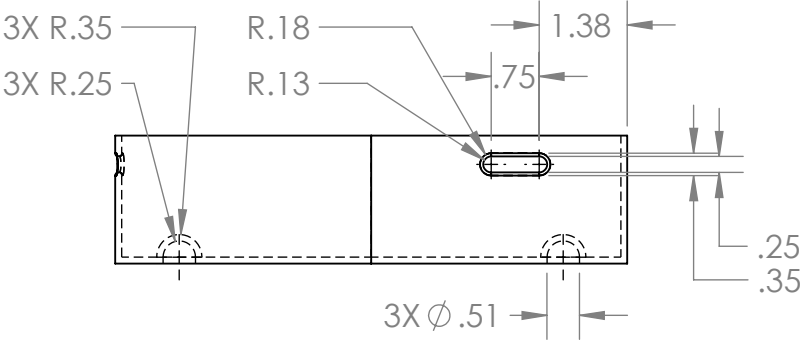
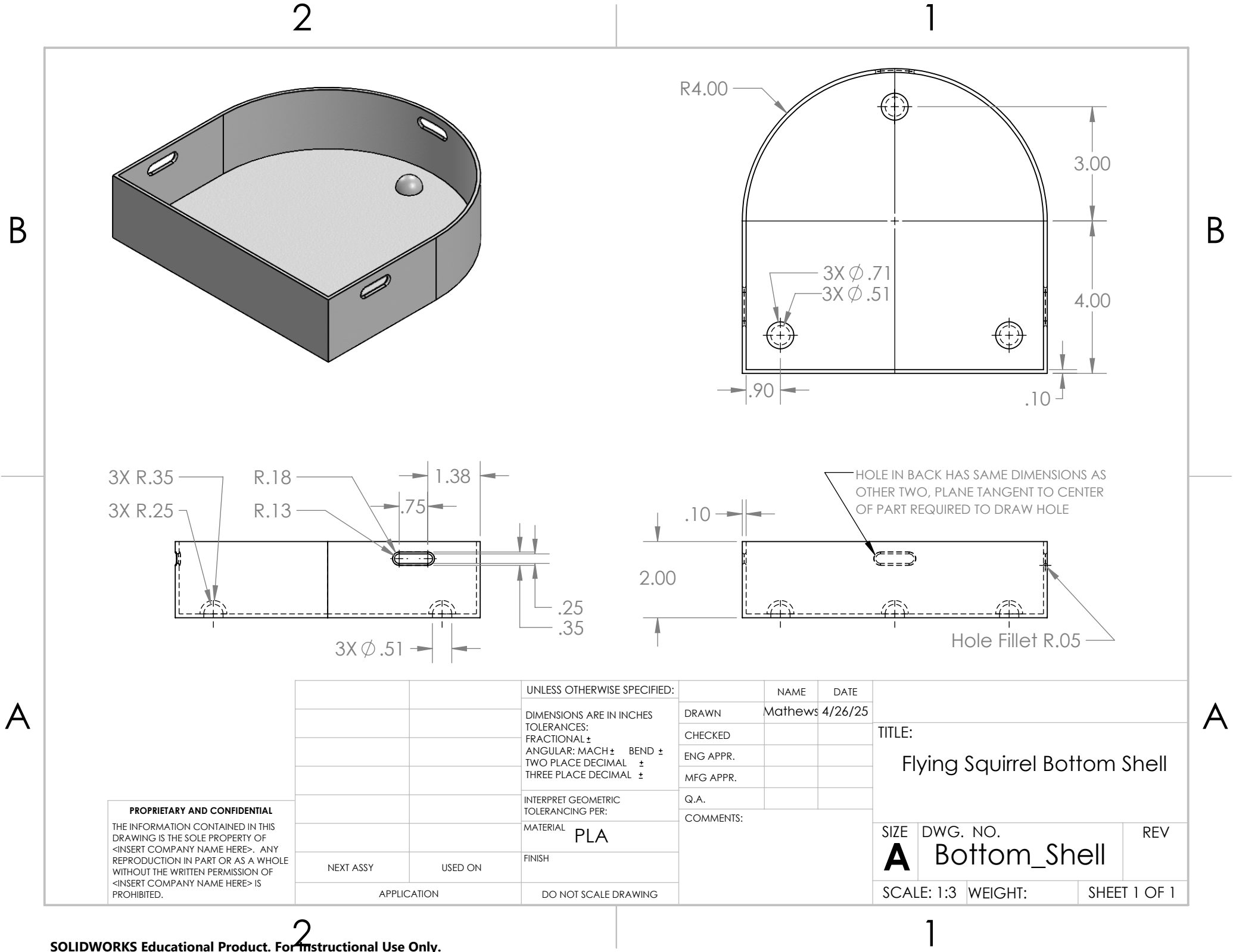
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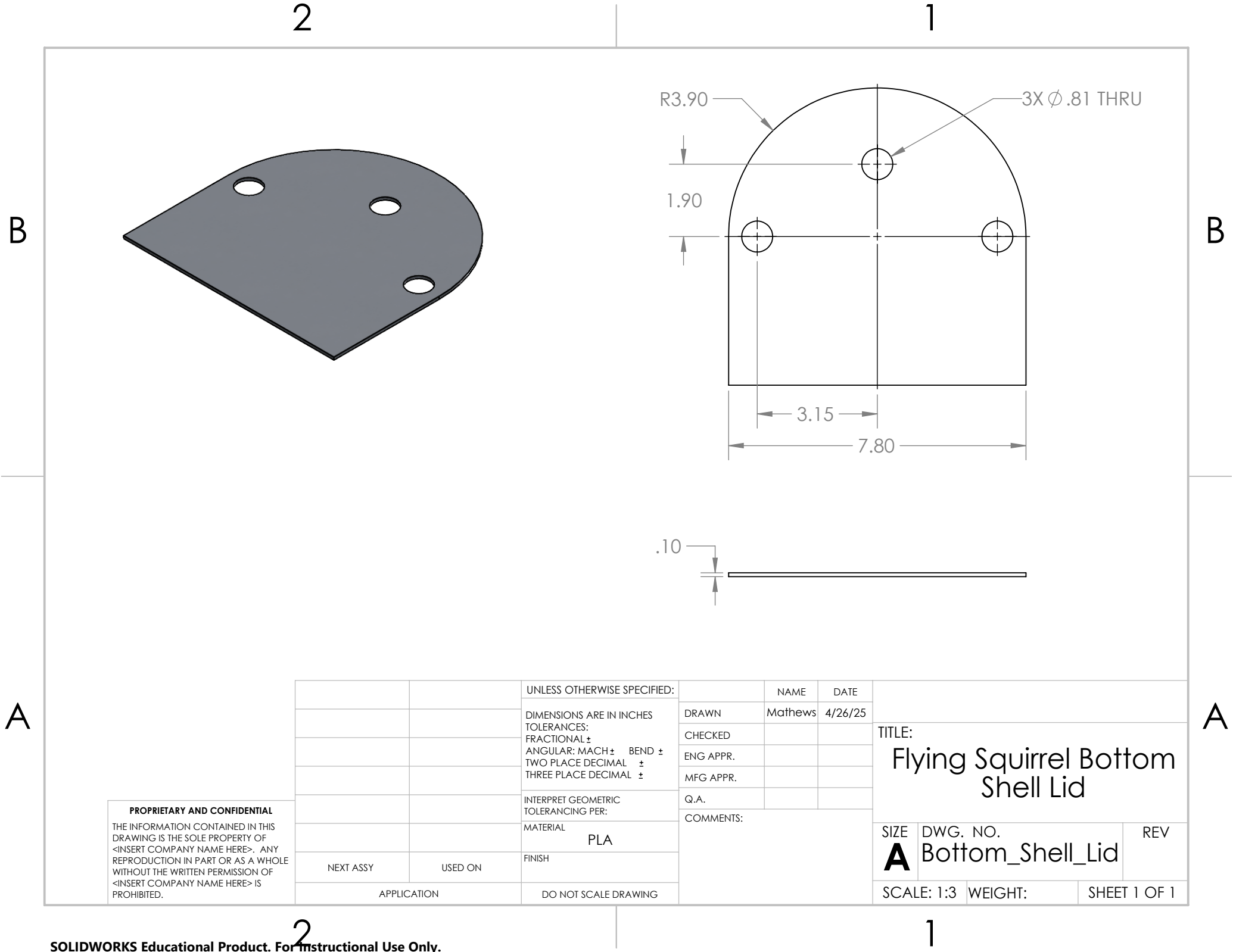
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: <div>Flying Squirrel Bottom Motor Mount Plate</div>			
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25				
		TOLERANCES:	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH± BEND ±	MFG APPR.						
		TWO PLACE DECIMAL ±				SIZE DWG. NO. REV <div>A Bottom_Motor_Mount_Plate</div>			
		THREE PLACE DECIMAL ±							
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			COMMENTS:			
		MATERIAL							
		Aluminum							
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:3 WEIGHT: SHEET 1 OF 1			



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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±			
		THREE PLACE DECIMAL ±			
		INTERPRET GEOMETRIC	Q.A.		
		TOLERANCING PER:	COMMENTS:		
		MATERIAL PLA			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

TITLE:			
Flying Squirrel Bottom Shell			
SIZE	DWG. NO.	REV	
A	Bottom_Shell		
SCALE: 1:3	WEIGHT:	SHEET 1 OF 1	



B

B

A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES	DRAWN	Mathews	4/26/25
		TOLERANCES:	CHECKED		
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL PLA			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

TITLE: Flying Squirrel Bottom Shell Lid		
SIZE A	DWG. NO. Bottom_Shell_Lid	REV
SCALE: 1:3	WEIGHT:	SHEET 1 OF 1

