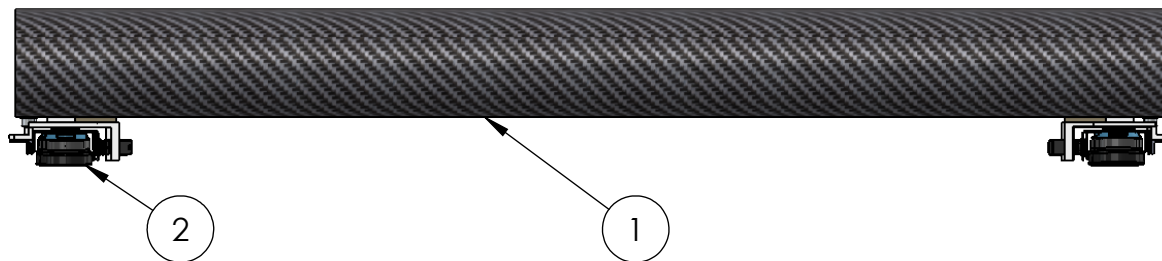


1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	S18-004	Structure Assembly	1
2	M18-004	Maglev Assembly	4
3	V18-004	Vertical Suspension Assembly	4
4	L18-004	Lateral Suspension Assembly	4
5	B18-004	Brake Assembly	2
6	E18-004	Power Electronics, Sensors and PCBs	1

UNLESS OTHERWISE SPECIFIED:

NAME	DATE
------	------

Nate R	3/7/18
--------	--------

3/7/18

DIMENSIONS ARE IN INCHES
TOLERANCES:
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

DRAWN

COMMENTS:

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

E FINISH

DO NOT SCALE DRAWING

UCSB HYPERLOOP

TITLE:

UCSB Hyperloop III Pod

SIZE	PRICE	REVENUE	PROFIT
1	10	10	10
2	10	20	20
3	10	30	30
4	10	40	40
5	10	50	50
6	10	60	60
7	10	70	70
8	10	80	80
9	10	90	90
10	10	100	100
11	10	110	110
12	10	120	120
13	10	130	130
14	10	140	140
15	10	150	150
16	10	160	160
17	10	170	170
18	10	180	180
19	10	190	190
20	10	200	200
21	10	210	210
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23	10	230	230
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36	10	360	360
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39	10	390	390
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45	10	450	450
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49	10	490	490
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57	10	570	570
58	10	580	580
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62	10	620	620
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70	10	700	700
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72	10	720	720
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75	10	750	750
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78	10	780	780
79	10	790	790
80	10	800	800
81	10	810	810
82	10	820	820
83	10	830	830
84	10	840	840
85	10	850	850
86	10	860	860
87	10	870	870
88	10	880	880
89	10	890	890
90	10	900	900
91	10	910	910
92	10	920	920
93	10	930	930
94	10	940	940
95	10	950	950
96	10	960	960
97	10	970	970
98	10	980	980
99	10	990	990
100			

DWG. NO.	
----------	--

REV

A

P18-004

A

SCALE: 1:10 WEIGHT:

SHEET 1 OF 1



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B

B

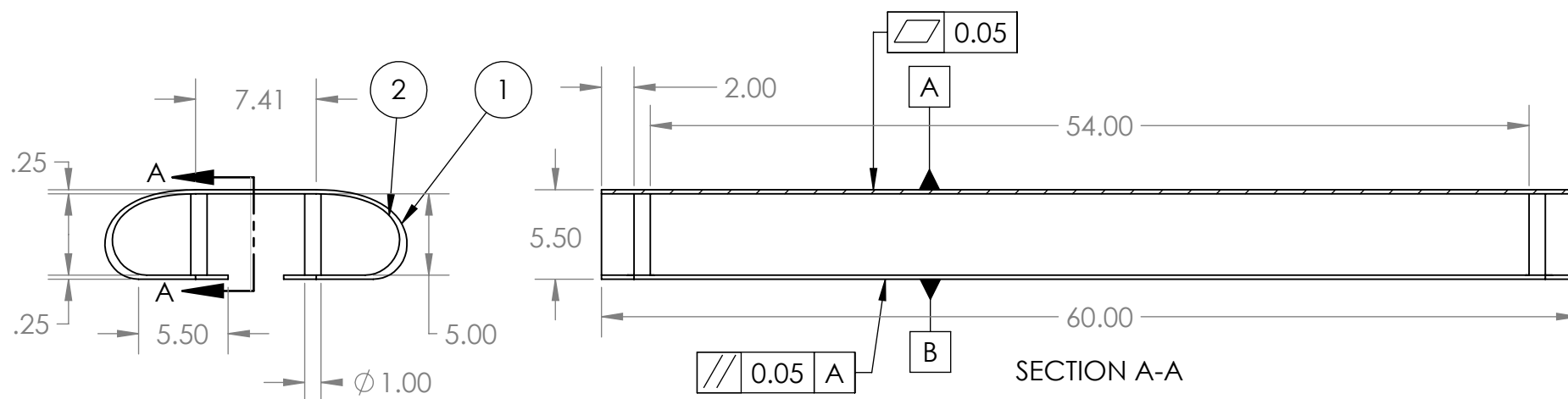
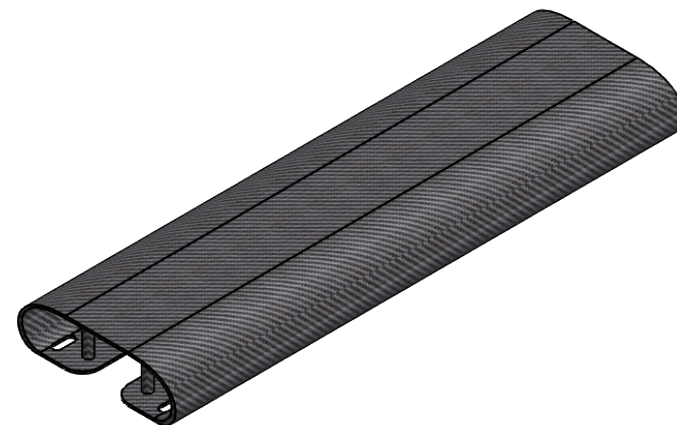
A

2

1

1

1. OUTER RADIUS: R 2.75 ± 0.01
2. INNER RADIUS: R 2.05 ± 0.01



SECTION A-A

UNLESS OTHERWISE SPECIFIED:

NAME	DATE
------	------

E.Pereyra	3/5/18
-----------	--------

DIMENSIONS ARE IN INCHES
TOLERANCES:
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

DRAWN

COMMENTS:

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

E FINISH

DO NOT SCALE DRAWING

UCSB HYPERLOOP

TITLE:

Frame

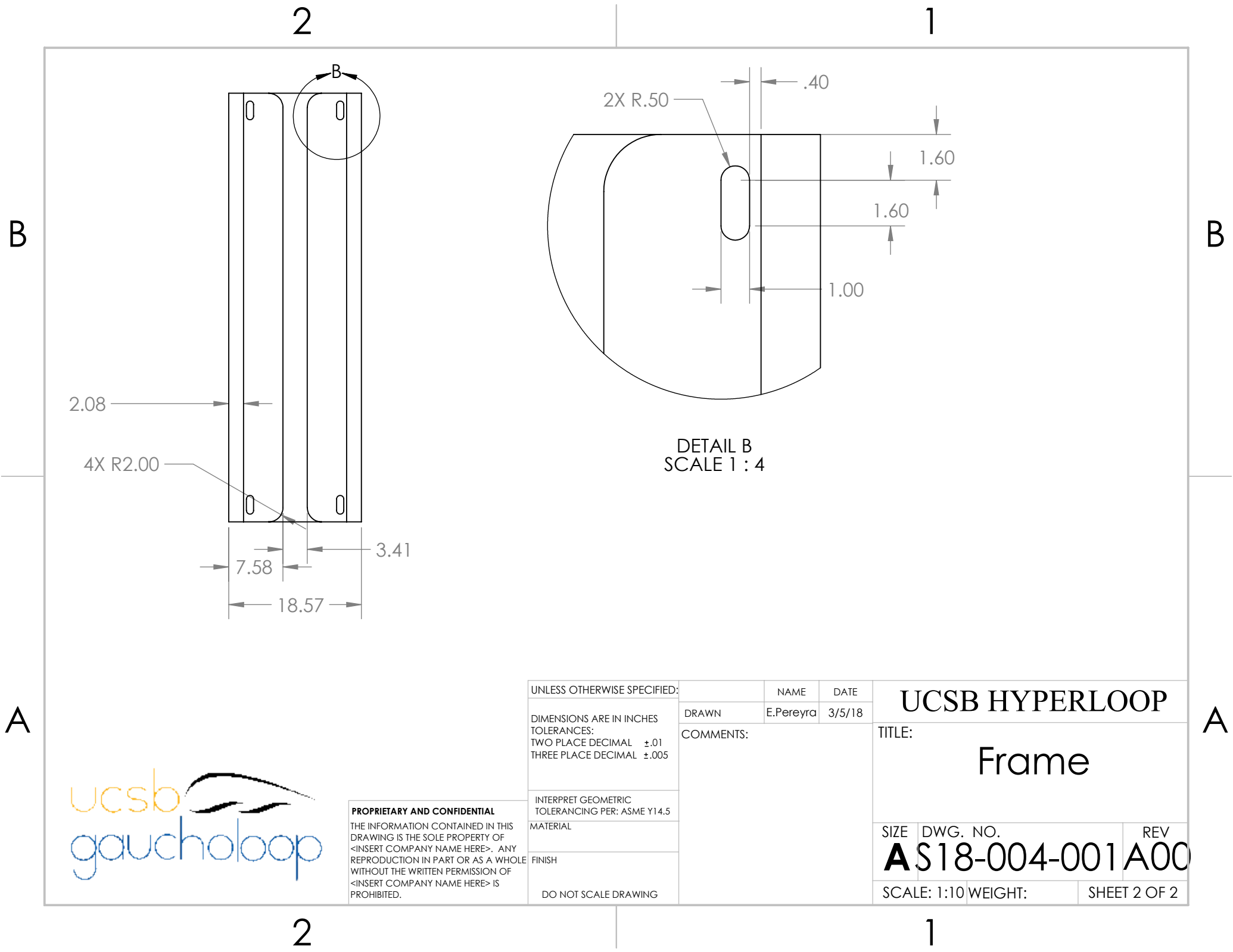
SIZE	DWG. NO.	REV
A	S18-004-001	A00

SCALE: 1:10	WEIGHT:	SHEET 1 OF 2
-------------	---------	--------------



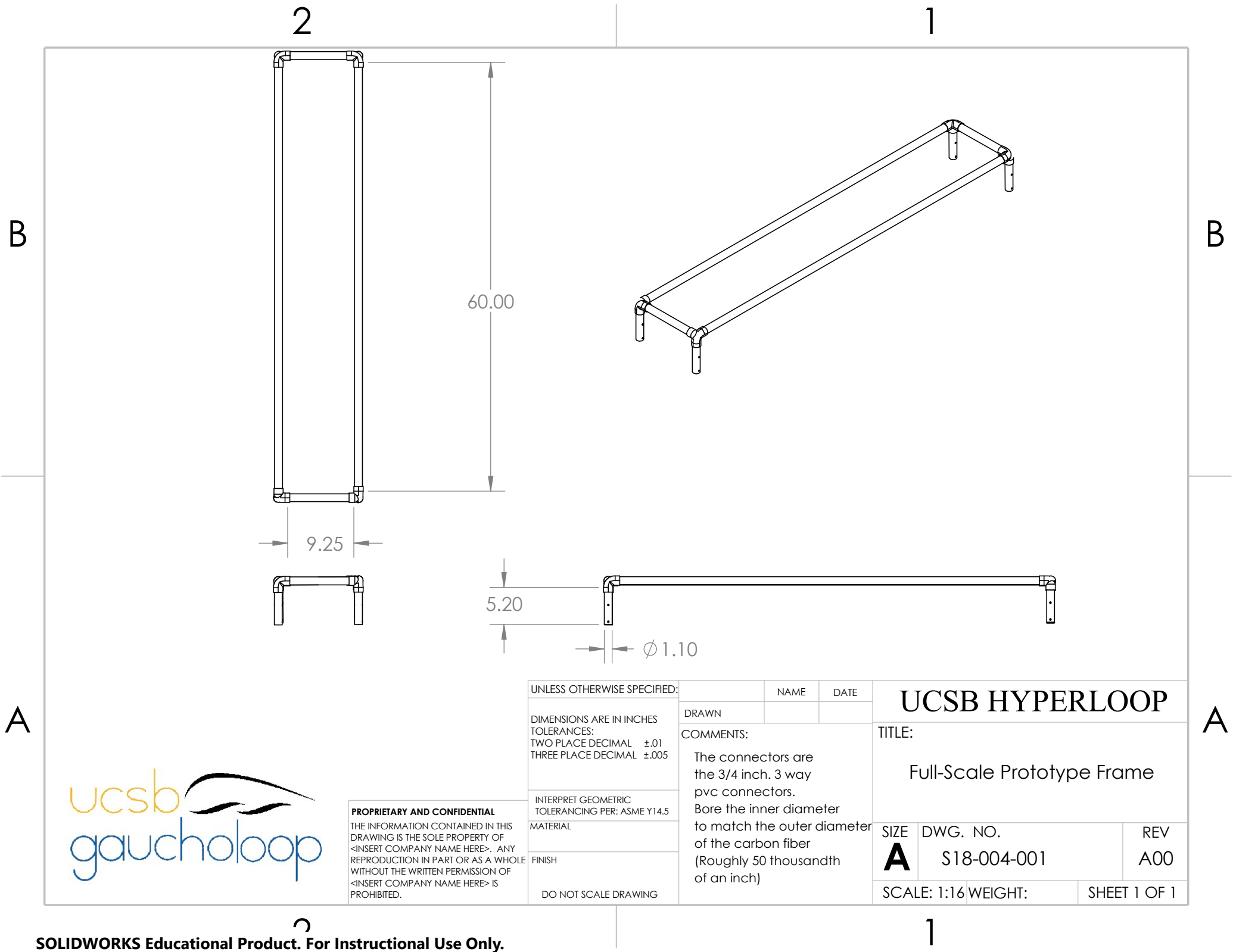
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DIMENSIONS ARE IN INCHES TOLERANCES: TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005		DRAWN	E.Pereyra 3/5/18		
		COMMENTS:		TITLE: Frame	
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5		SIZE DWG. NO. REV A S18-004-001A00			
MATERIAL					
FINISH					
DO NOT SCALE DRAWING		SCALE: 1:10 WEIGHT: SHEET 2 OF 2			



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TOLERANCES:
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5
MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME DATE

COMMENTS:

The connectors are
the 3/4 inch. 3 way
pvc connectors.
Bore the inner diameter
to match the outer diameter
of the carbon fiber
(Roughly 50 thousandth
of an inch)

UCSB HYPERLOOP

TITLE:

Full-Scale Prototype Frame

SIZE

A

DWG. NO.

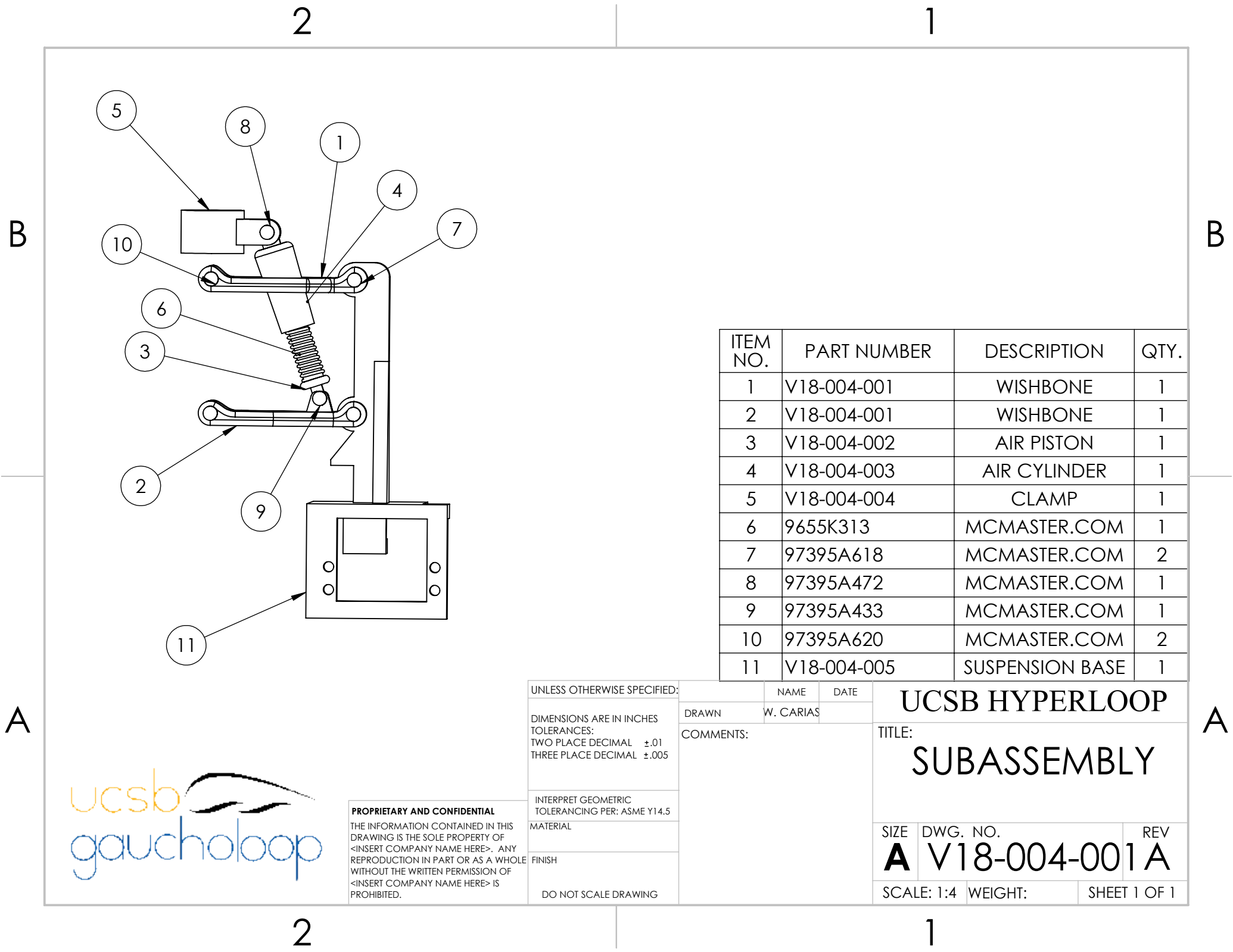
S18-004-001

REV

A00

SCALE: 1:16 WEIGHT:

SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	V18-004-001	WISHBONE	1
2	V18-004-001	WISHBONE	1
3	V18-004-002	AIR PISTON	1
4	V18-004-003	AIR CYLINDER	1
5	V18-004-004	CLAMP	1
6	9655K313	MCMASTER.COM	1
7	97395A618	MCMASTER.COM	2
8	97395A472	MCMASTER.COM	1
9	97395A433	MCMASTER.COM	1
10	97395A620	MCMASTER.COM	2
11	V18-004-005	SUSPENSION BASE	1

UNLESS OTHERWISE SPECIFIED:		NAME	DATE	UCSB HYPERLOOP TITLE: SUBASSEMBLY	
DIMENSIONS ARE IN INCHES TOLERANCES: TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005		DRAWN	W. CARIAS		
		COMMENTS:			
INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5					
MATERIAL		SIZE DWG. NO. REV A V18-004-001 A			
FINISH					
DO NOT SCALE DRAWING		SCALE: 1:4		WEIGHT:	SHEET 1 OF 1



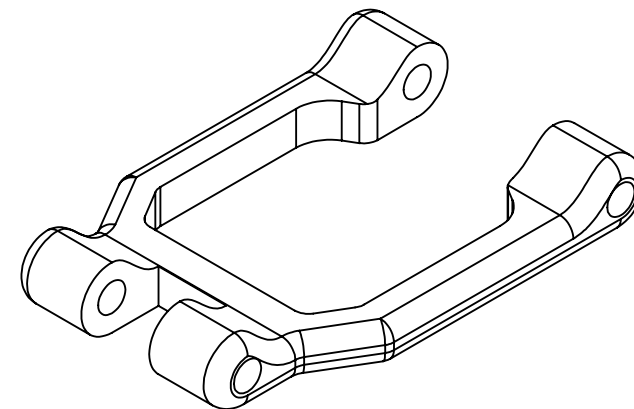
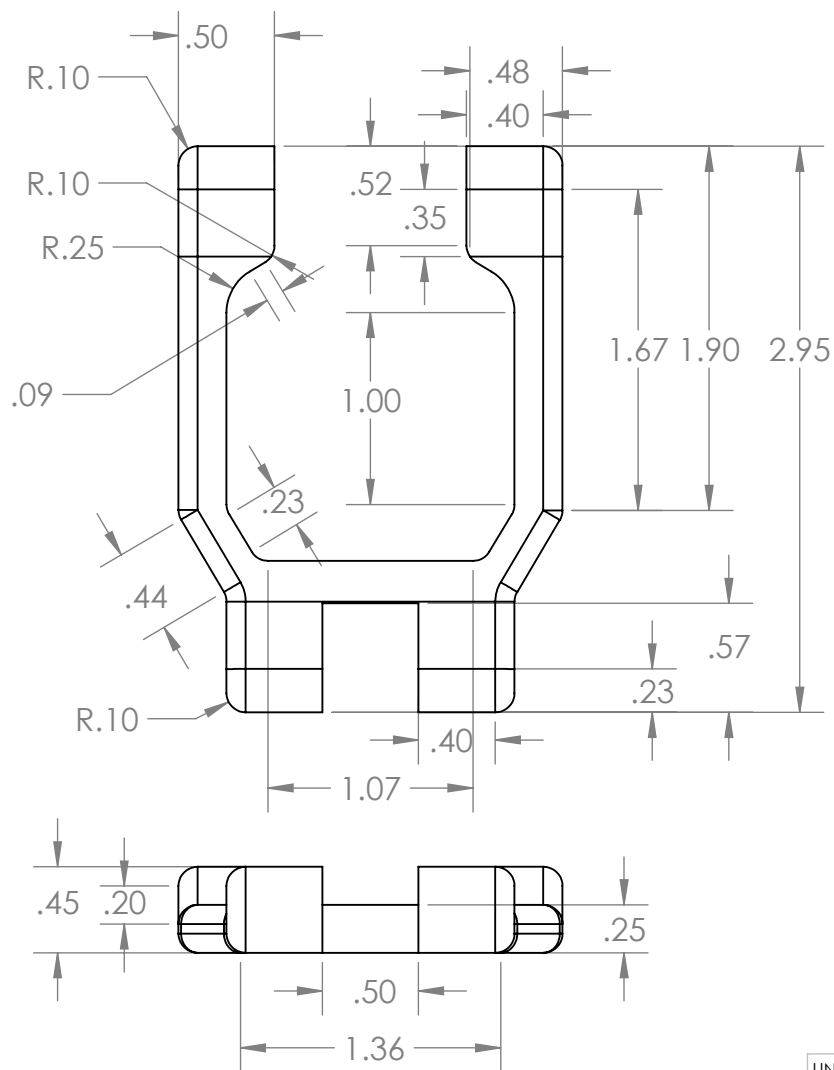
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2

1

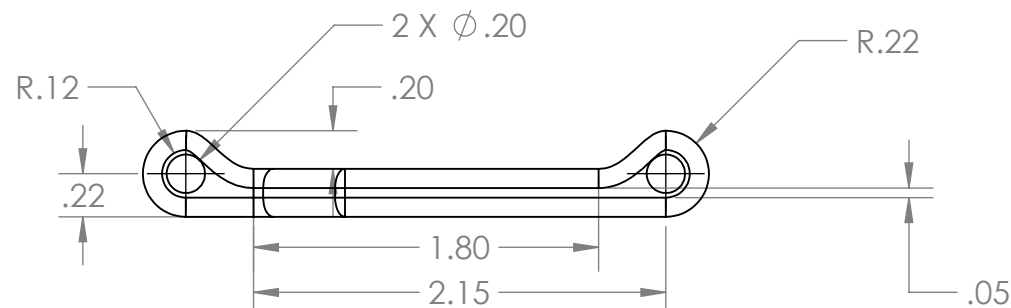
B

B



NOTES:

1. ORDER 3D PRINTED PARTS FROM XOMETRY
2. SHAVE OFF THE SUPPORT MATERIAL
3. SANF OFF PART



A

A



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TOLERANCES:
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
NYLON

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

DATE

COMMENTS:

W. CARIAS

UCSB HYPERLOOP

TITLE:

WISH BONE

SIZE

DWG. NO.

REV

A

V18-004-001

A

SCALE: 1:1

WEIGHT:

SHEET 1 OF 1

2

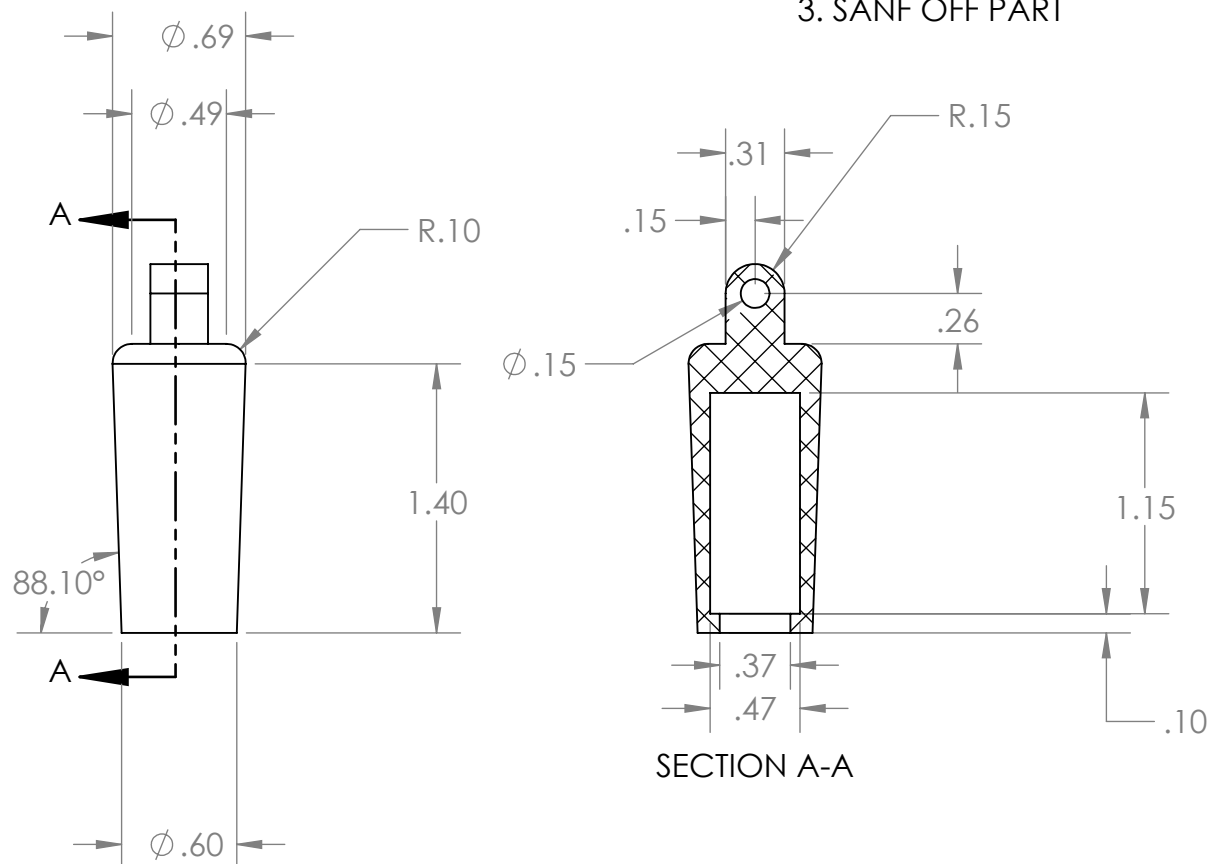
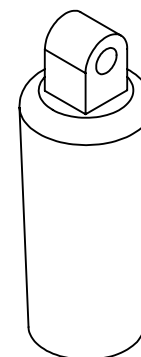
1

2

1

NOTES:

1. ORDER 3D PRINTED PARTS FROM XOMETRY
2. SHAVE OFF THE SUPPORT MATERIAL
3. SANF OFF PART



SECTION A-A



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TOLERANCES:
TWO PLACE DECIMAL ± 0.01
THREE PLACE DECIMAL ± 0.005

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
NYLON

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN W. CARIAS

COMMENTS:

UCSB HYPERLOOP

TITLE:

AIR CYLINDER

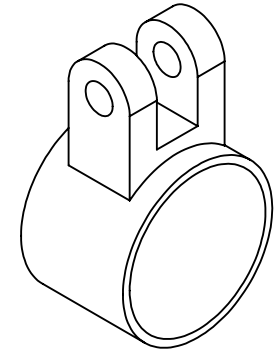
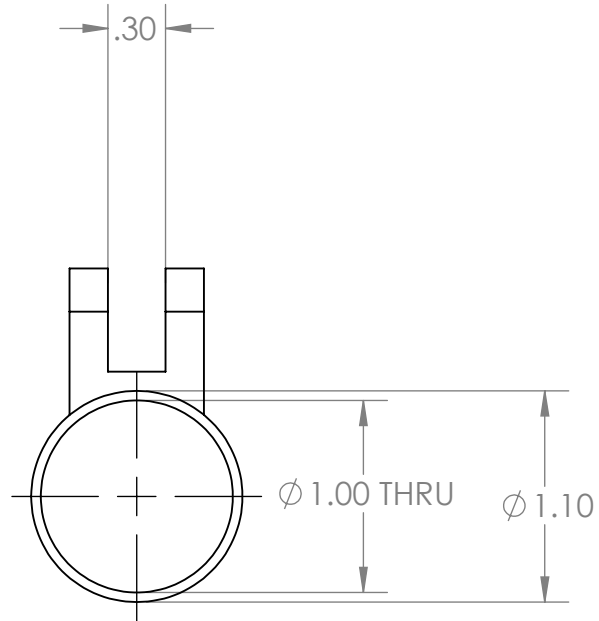
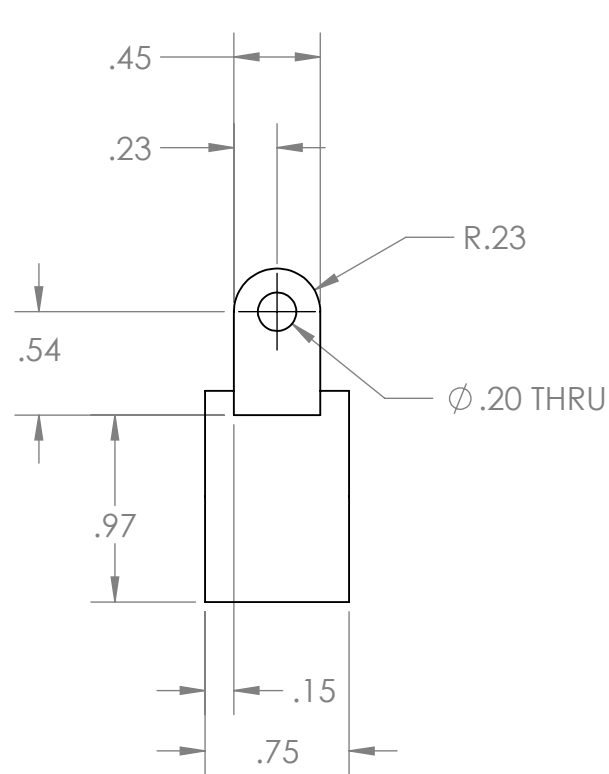
SIZE	DWG. NO.	REV
A	V18-004-003A	

SCALE: 1:1	WEIGHT:	SHEET 1 OF 1
------------	---------	--------------

2

1

B



B

NOTES:

1. ORDER 3D PRINTED PARTS FROM XOMETRY
2. SHAVE OFF THE SUPPORT MATERIAL
3. SANF OFF PART

A



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DIMENSIONS ARE IN INCHES
TOLERANCES:
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
Nylon

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN

W. CARIAS

COMMENTS:

UCSB HYPERLOOP

TITLE:

CLAMP

SIZE

DWG. NO.

REV

A

V18-004-004A

SCALE: 1:1

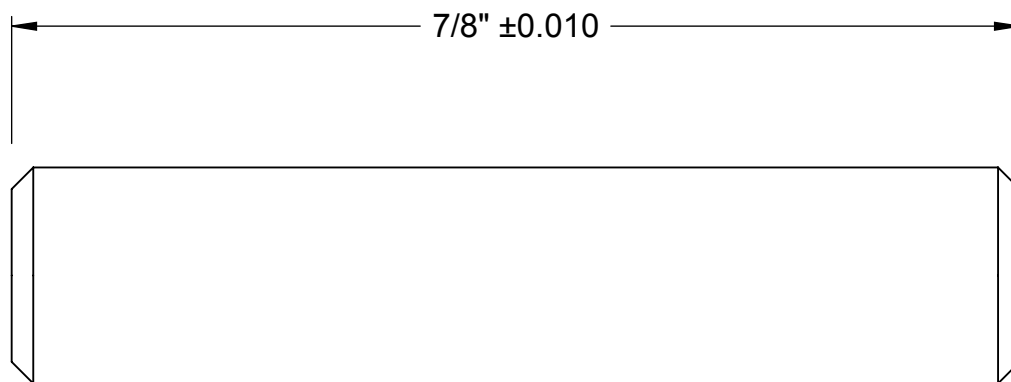
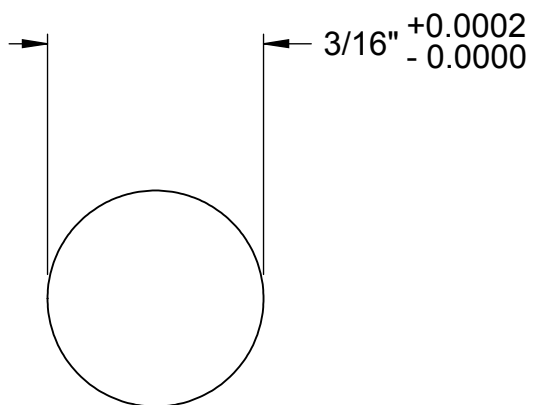
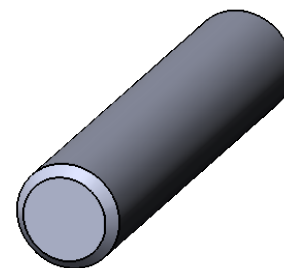
WEIGHT:

SHEET 1 OF 1

A

2

1



McMASTER-CARR CAD

<http://www.mcmaster.com>

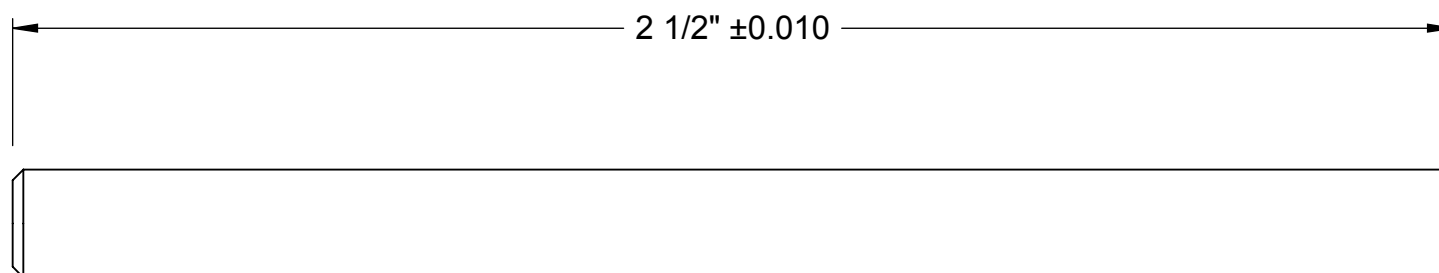
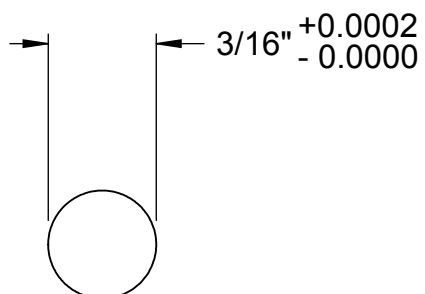
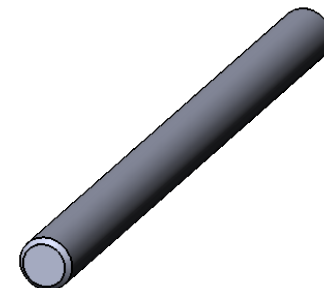
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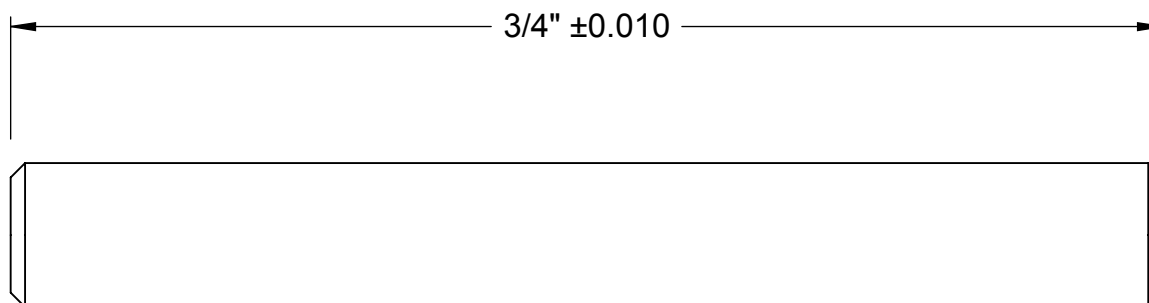
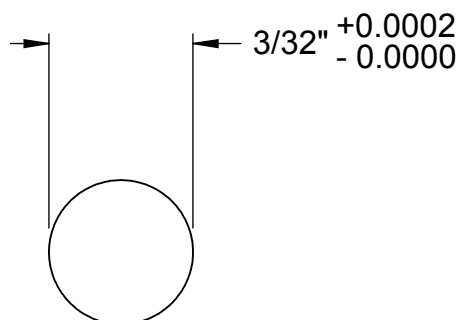
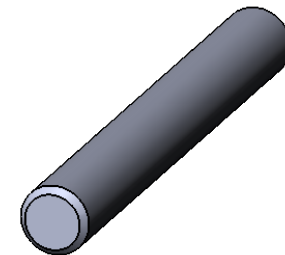
PART
NUMBER

97395A472

Type 316 Stainless Steel
Dowel Pin



McMASTER-CARR <small>CAD</small> 	PART NUMBER	97395A620
	Type 316 Stainless Steel Dowel Pin	
	http://www.mcmaster.com © 2012 McMaster-Carr Supply Company Information in this drawing is provided for reference only.	



McMASTER-CARR CAD

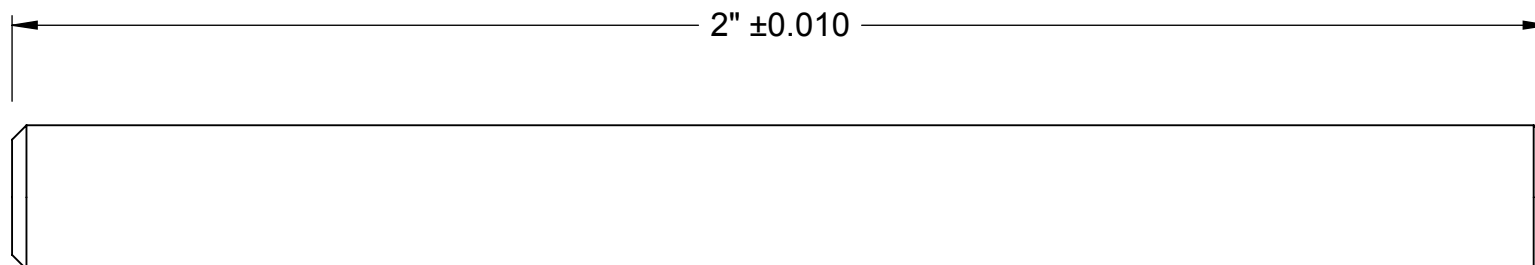
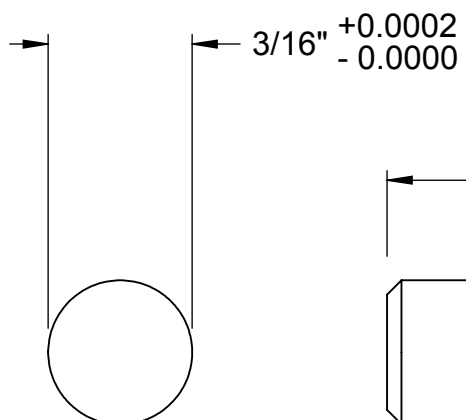
<http://www.mcmaster.com>
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PART
NUMBER

97395A433

Type 316 Stainless Steel
Dowel Pin



McMASTER-CARR CAD

<http://www.mcmaster.com>

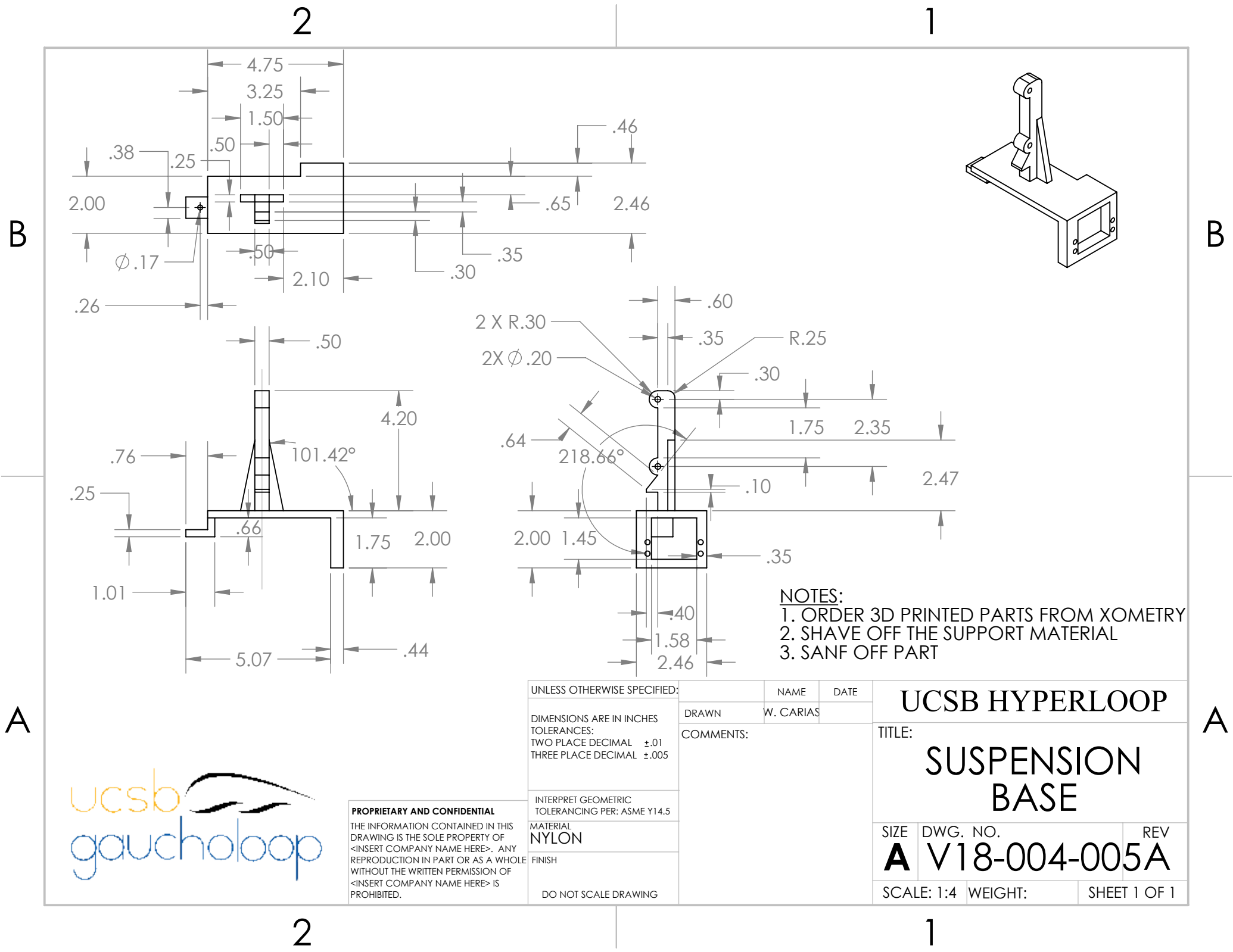
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PART
NUMBER

97395A618

Type 316 Stainless Steel
Dowel Pin



- NOTES:
- 1. ORDER 3D PRINTED PARTS FROM XOMETRY
 - 2. SHAVE OFF THE SUPPORT MATERIAL
 - 3. SANF OFF PART



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DIMENSIONS ARE IN INCHES TOLERANCES: TWO PLACE DECIMAL ±.01 THREE PLACE DECIMAL ±.005	DRAWN	W. CARIAS	UCSB HYPERLOOP			
	COMMENTS:			TITLE:		
	INTERPRET GEOMETRIC TOLERANCING PER: ASME Y14.5			SUSPENSION BASE		
MATERIAL NYLON			SIZE	DWG. NO.	REV	
FINISH			A	V18-004-005A		
DO NOT SCALE DRAWING			SCALE: 1:4		WEIGHT:	SHEET 1 OF 1

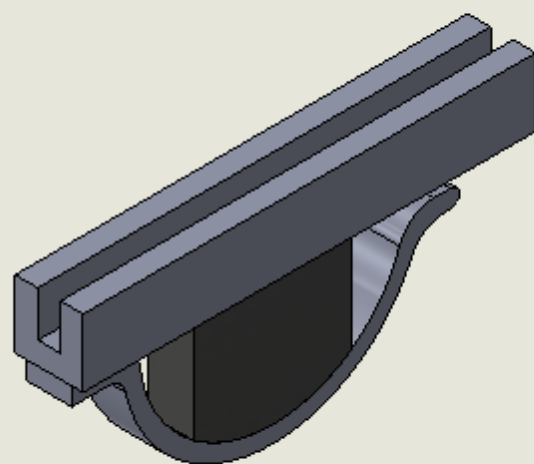
UCSB HYPERLOOP
SUSPENSION
BASE

SIZE
A

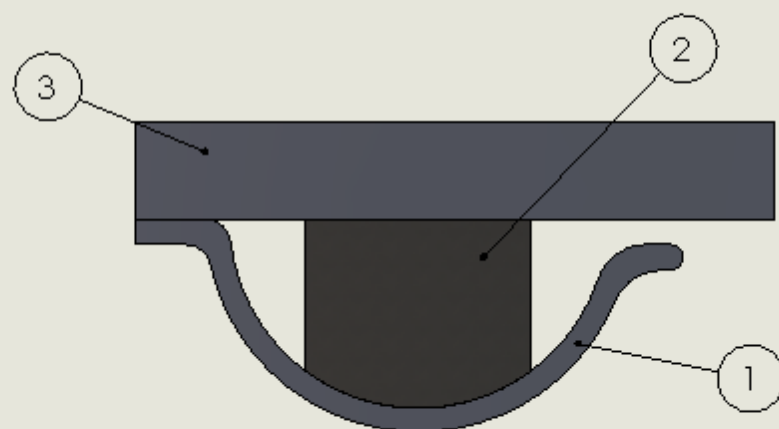
SCALE: 1:4

WEIGHT:

SHEET 1 OF 1



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	L18-004-001	Leaf Spring	1
2	L18-004-002	Foam Block	1
3	L18-004-003	Leaf Spring Connector	1



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES
TOLERANCES:
TWO PLACE DECIMAL ± 0.1
THREE PLACE DECIMAL ± 0.05

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME
Gavin
Marocin

DATE
3/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Lateral Stability
Assembly

SIZE

A

DWG. NO.

L18-004

REV

1

SCALE: 1:1

WEIGHT:

SHEET 1 OF 1

ucsb
gaucholoop

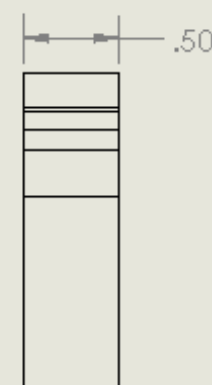
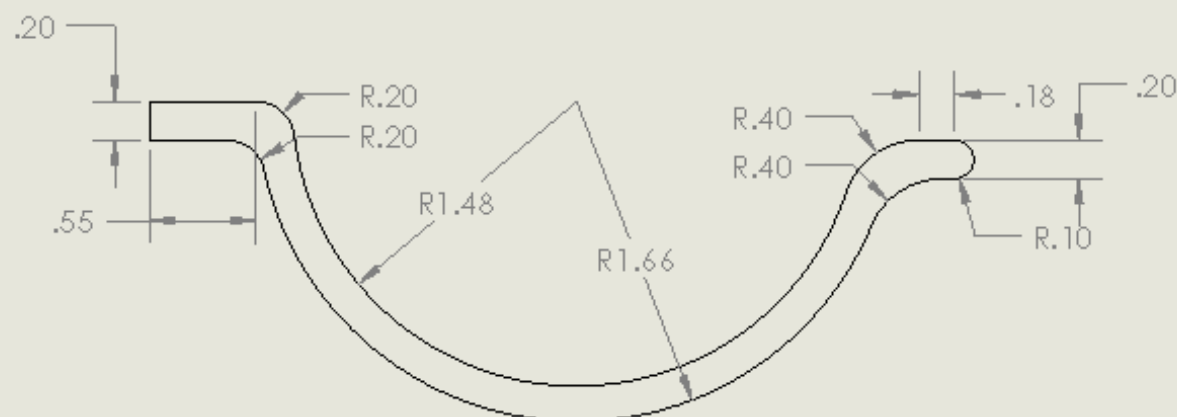
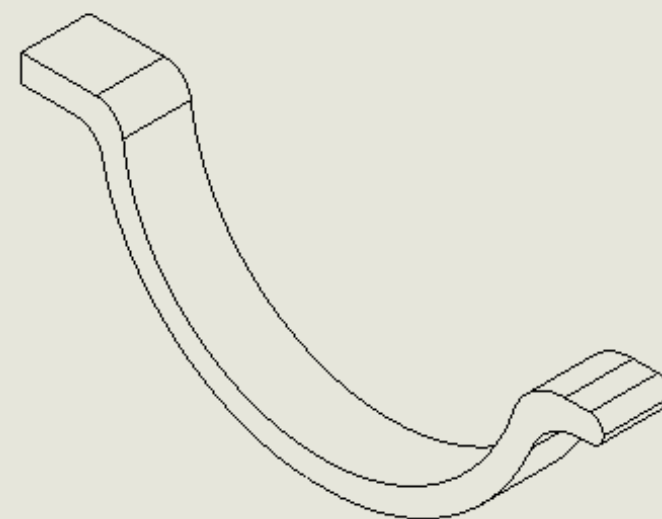
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2

1

Fabrication Schedule

1. Create mold for Epoxy resin out of wood and cardboard
2. Fill mold with Epoxy resin
3. Let rest until fully hardened
4. Repeat until the thickness is greater than desired (0.5 inches)
5. Remove the hardened epoxy from the mold
6. Sand the epoxy down until the desired dimensions



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TOLERANCES:
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THREE PLACE DECIMAL ± 0.05

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
Epoxy

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

Cathy
Morgan

DATE

3/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Leaf Spring

SIZE

A

DWG. NO.

L18-004-001

REV

1

SCALE: 1:1

WEIGHT:

SHEET 1 OF 1

2

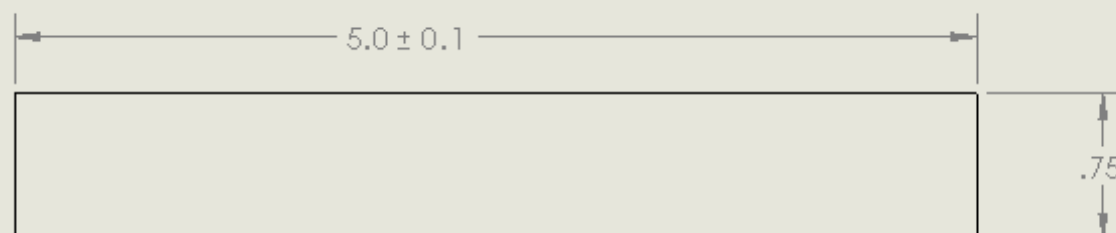
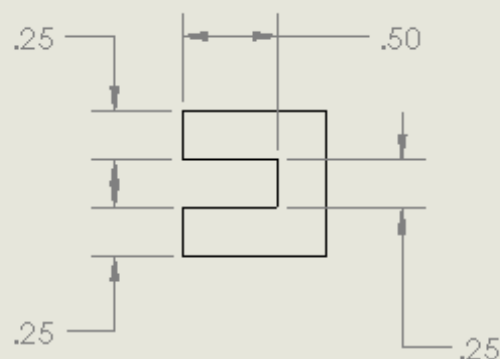
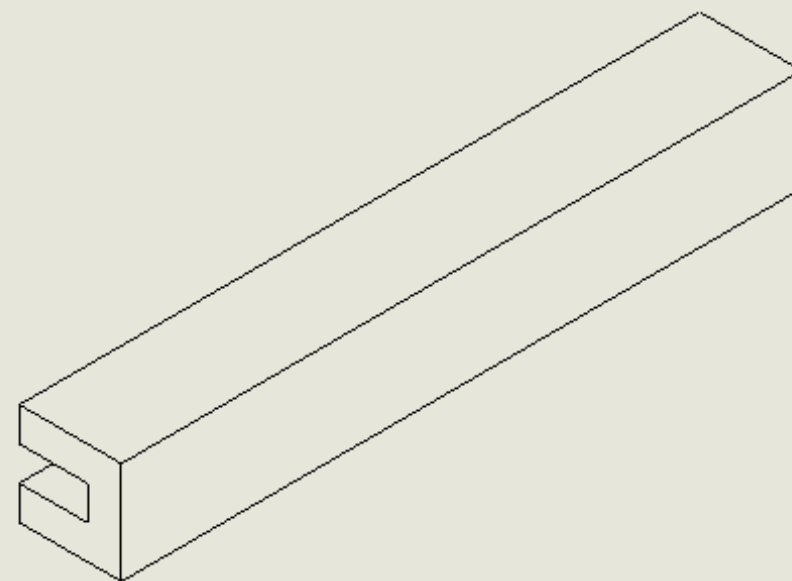
1

2

1

Fabrication Schedule

1. 3D print part through Xometry.com
2. Clean out support material
3. Sand down dimensions where needed



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TWO PLACE DECIMAL ± 0.1
THREE PLACE DECIMAL ± 0.05

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
ABS Plastic

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

Cavin

MORCON

DATE

3/8/18

COMMENTS: 3D printed

UCSB HYPERLOOP

TITLE:

Leaf Spring
Connector

SIZE

DWG. NO.

REV

A

L18-004-003

1

SCALE: 1:1

WEIGHT:

SHEET 1 OF 1

2

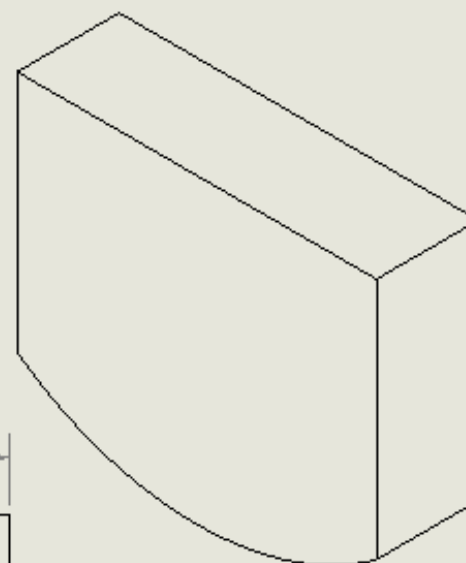
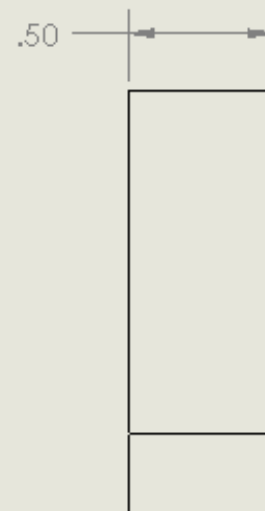
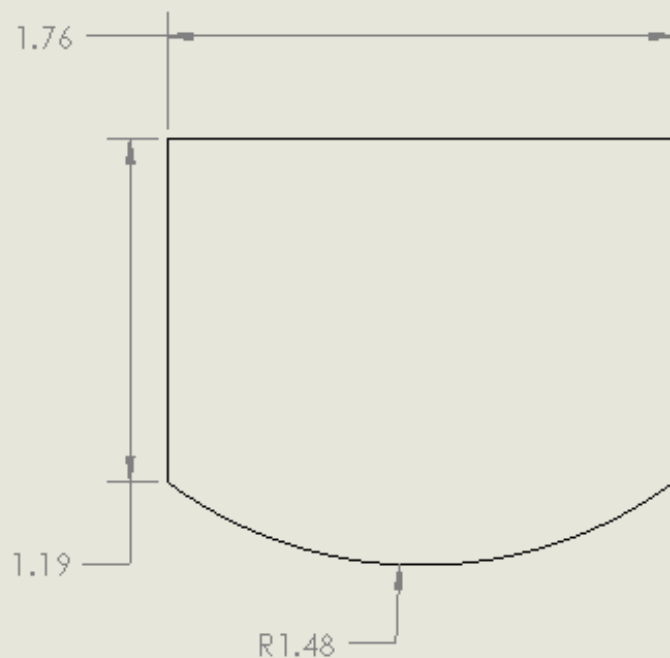
1

2

1

Fabrication Schedule

1. Buy polyurethane foam 0.5 inches thick
2. Measure and mark dimensions onto foam
3. Cut out desired shape



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DIMENSIONS ARE IN INCHES
TOLERANCES:
TWO PLACE DECIMAL $\pm .01$
THREE PLACE DECIMAL $\pm .005$

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
Polyurethane Foam

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

Cody
Morison

DATE

2/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Foam Block

SIZE

DWG. NO.

REV

A**L18-004-002****1**

SCALE: 2:1

WEIGHT:

SHEET 1 OF 1

2

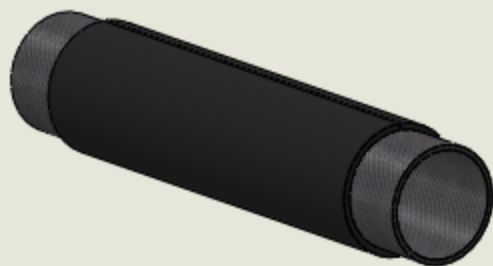
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2

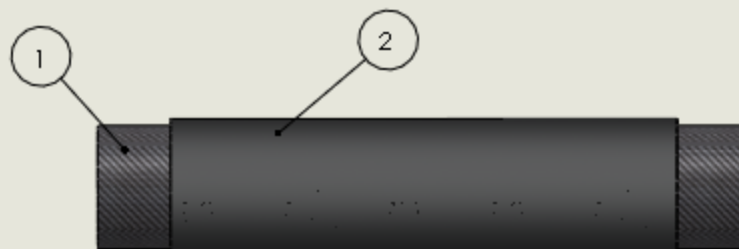
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B

B



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	B18-004-001	Braking Bar	1
2	B18-004-002	Rubber Brake	1



A

A



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TOLERANCES:
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5
MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME	DATE
Drawn Cathy Maroon	3/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Secondary Braking System

SIZE	DWG. NO.	REV
A	B18-004	1

SCALE 1:2	WEIGHT:	SHEET 1 OF 1
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2

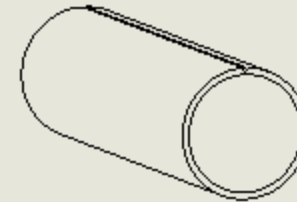
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2

1

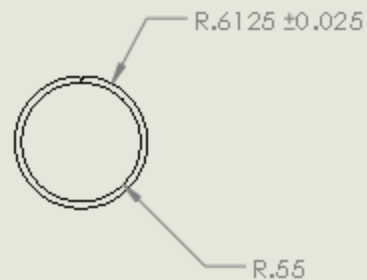
Fabrication Schedule

1. Purchase a one-eighth inch thick rubber
2. Cut the desired length and width into the sheet of rubber
3. Wrap the cut sheet around the Braking Bar
4. Secure with adhesive



B

B



4.50



A

A



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TOLERANCES:
TWO PLACE DECIMAL ±.01
THREE PLACE DECIMAL ±.005

INTERPRET TO METRIC
TOLERANCES PER ASME Y14.5
MATERIAL

Rubber

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

DATE

Gavin
Hansen 2/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Rubber Brake

SIZE DWG. NO.

A B18-004-002

REV

1

SCALE: 1:2 WEIGHT:

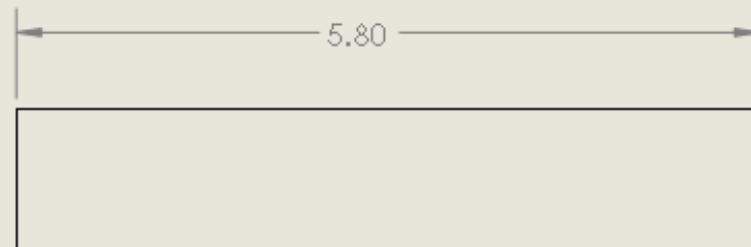
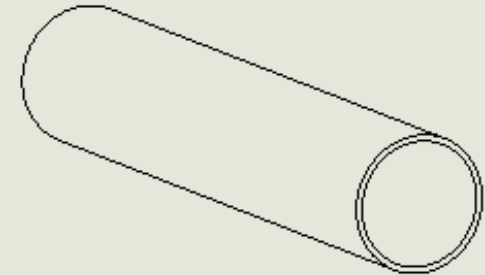
SHEET 1 OF 1

2

1

Fabrication Schedule

1. Purchase a 1" thick carbon fiber tube
2. Cut it down to the desired length



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THREE PLACE DECIMAL ± 0.005

INTERPRET GEOMETRIC
TOLERANCING PER: ASME Y14.5

MATERIAL
Carbon Fiber

FINISH

DO NOT SCALE DRAWING

DRAWN

NAME

DATE

Cavin
Morgan

2/8/18

COMMENTS:

UCSB HYPERLOOP

TITLE:

Braking Bar

SIZE

DWG. NO.

REV

A

B18-004-001

1

SCALE: 1:2

WEIGHT:

SHEET 1 OF 1