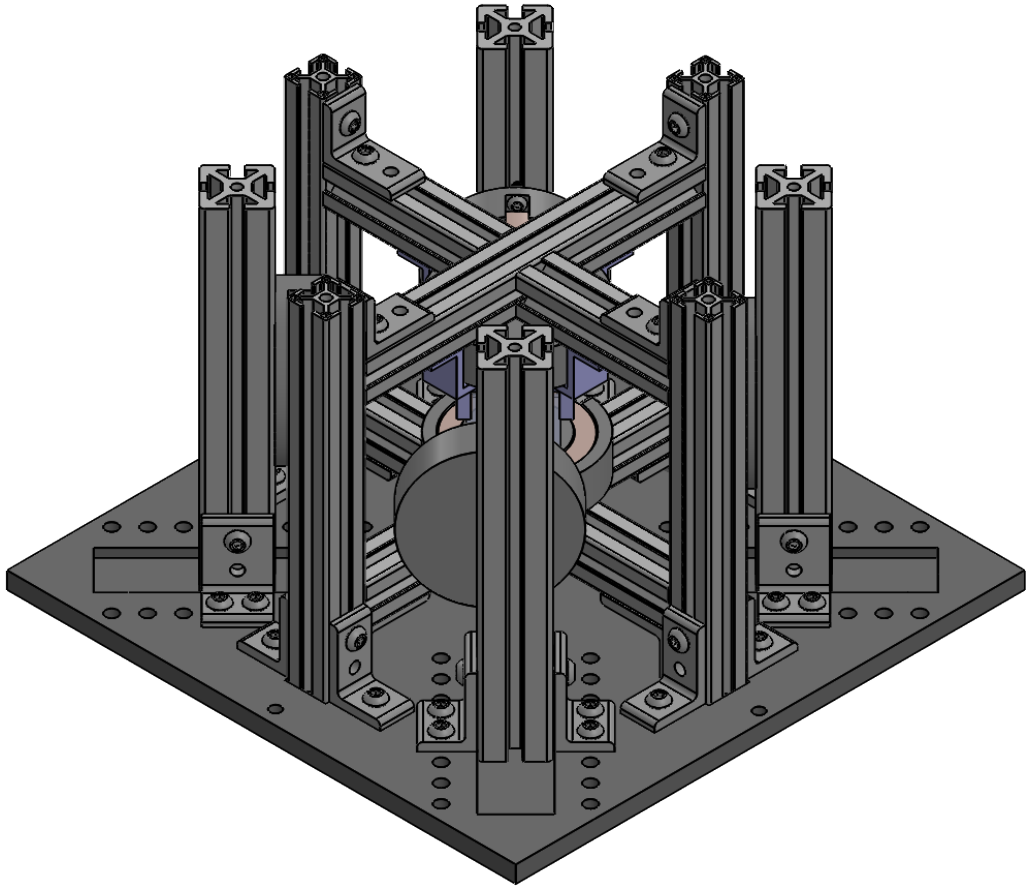


3D MAGNETIC CONTROL SYSTEM DRAWING

B



A

B

A

TABLE OF CONTENTS	
PAGE	CONTENT
1	TABLE OF CONTENTS
2	OVERALL DESIGN (BILL OF MATERIALS)
3	LIST OF SCREWS AND FASTENERS
4	DESIGN ASSEMBLY
5	BASE PLATE
6	SOLENOID
7	40MM TBAR FOR DESIGN ASSEMBLY
8	TOP/BOTTOM SUBASSEMBLY
9	30MM TBAR FOR TOP/BOTTOM ASSEMBLY
10	WORKSPACE SUPPORT
11	1.5IN BRACKET
12	1IN BRACKET
13	COIL WRAPPER
14	COIL WRAPPING JIG BASE
15	COIL WRAPPING JIG RING
16	COIL WRAPPING JIG TOP
17	DESIGN ASSEMBLY EXPLODED VIEW
18	TOP/BOTTOM SOLENOID EXPLODED VIEW
19	COIL WRAPPING JIG EXPLODED VIEW

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		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JAE HYEONG LEE	3/4/2021
CHECKED	TANNER HANSON	3/12/2021
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
TABLE OF CONTENT		
SIZE	DWG. NO.	REV
A	TOC1	
SCALE: 1:8	WEIGHT:	SHEET 1 OF 19

BILL OF MATERIALS

ITEM NO.	PART NAME	QTY.	DESCRIPTION
1	BASE PLATE	1	15IN X 15IN X 15IN
2	TOP AND BOTTOM SOLENOID SUBASSEMBLY		INCLUDES 3,4,7,8,9,10,11
3	SOLENOID	6	
4	COIL	6	
5	40MM T-SLOTTED FRAME 10IN	4	10IN
6	1.5IN CORNER BRACKET	8	1.5IN
7	1IN CORNER BRACKET	8	1IN
8	30MM T-SLOTTED FRAME 10IN	6	10IN
9	30MM T-SLOTTED FRAME 4.5IN	4	4.6IN
10	WORKSPACE	2	50MM X 50MM X 50MM
11	WORKSPACE SUPPORT	1	CAN BE 3D PRINTED FOR VARIOUS HEIGHTS
12	SOLENOID COIL WRAPPING JIG	1	USED TO WRAP COILS; INCLUDES BASE,RING,TOP

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 TOLERANCES:
 FRACTIONAL \pm
 ANGULAR: MACH \pm BEND \pm
 TWO PLACE DECIMAL \pm
 THREE PLACE DECIMAL \pm

INTERPRET GEOMETRIC
 TOLERANCING PER:

MATERIAL

FINISH

APPLICATION

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	TEAM 5	3/4/21
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

**REFER TO BOM
 EXCEL FOR
 DETAILS**

TITLE:
**OVERALL DESIGN BILL OF
 MATERIALS**

SIZE	DWG. NO.	REV
A	DES1	
SCALE: 1:8	WEIGHT:	SHEET 2 OF 19

B

B

LIST OF SCREWS AND FASTENERS

PART NAME	QTY.	DESCRIPTION
M6 SCREW	16	WORKSPACE AND SOLENOIDS
M6 FASTENER	16	WORKSPACE AND SOLENOID
M8 SCREWS	64	CORNER BRACKETS AND SOLENOIDS (REQUIRE 60) 4 EXTRA M8 SCREWS FOR ADDITIONAL SOLENOID SUPPORT
M8 FASTENER	64	CORNER BRACKETS AND SOLENOIDS

A

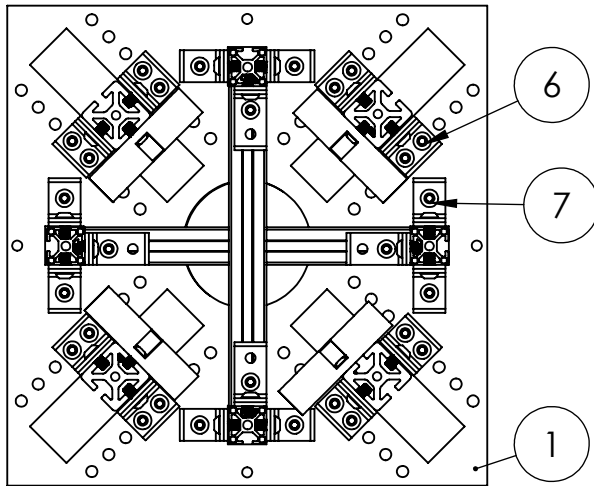
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM	DRAWN	JAE HYEONG LEE	3/12/2021
		TOLERANCES:	CHECKED	TANNER HANSON	3/12/2021
		FRACTIONAL ±	ENG APPR.		
		ANGULAR: MACH ± BEND ±	MFG APPR.		
		TWO PLACE DECIMAL ±	Q.A.		
		THREE PLACE DECIMAL ±	COMMENTS:	REFER TO BOM EXCEL FOR DETAILS	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

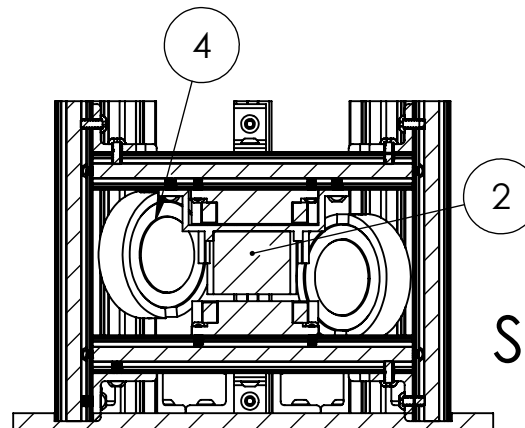
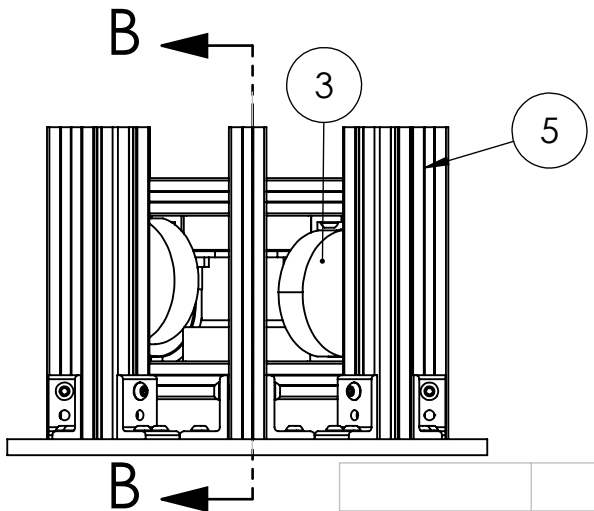
021			
TITLE:			
LIST OF SCREWS AND FASTENERS			
SIZE	DWG. NO.		REV
A	DES2		
SCALE: 1:8		WEIGHT:	SHEET 3 OF 19

B



ITEM NO.	PART NAME	QTY.	DESCRIPTION
1	BASE PLATE	1	15IN X 15IN X 0.5IN
2	TOP AND BOTTOM SOLENOID SUBASSEMBLY	1	INCLUDES 3,4,7,8,9,10,11
3	SOLENOID	4	
4	COIL	4	
5	40MM T-SLOTTED FRAME 10IN	4	
6	1.5 INCORNER BRACKET	8	USED FOR 40MM T-FRAMING RAILS
7	1IN CORNER BRACKET	11	USED FOR 30MM T-FRAMING RAILS

B



SECTION B-B

SCALE 1 : 6

A

A

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

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

INTERPRET GEOMETRIC
TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

NAME DATE

DRAWN JAE HYEONG LEE 3/4/2021
TANNER HANSON

CHECKED 3/12/2021

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

TITLE:

DESIGN ASSEMBLY

SIZE

DWG. NO.

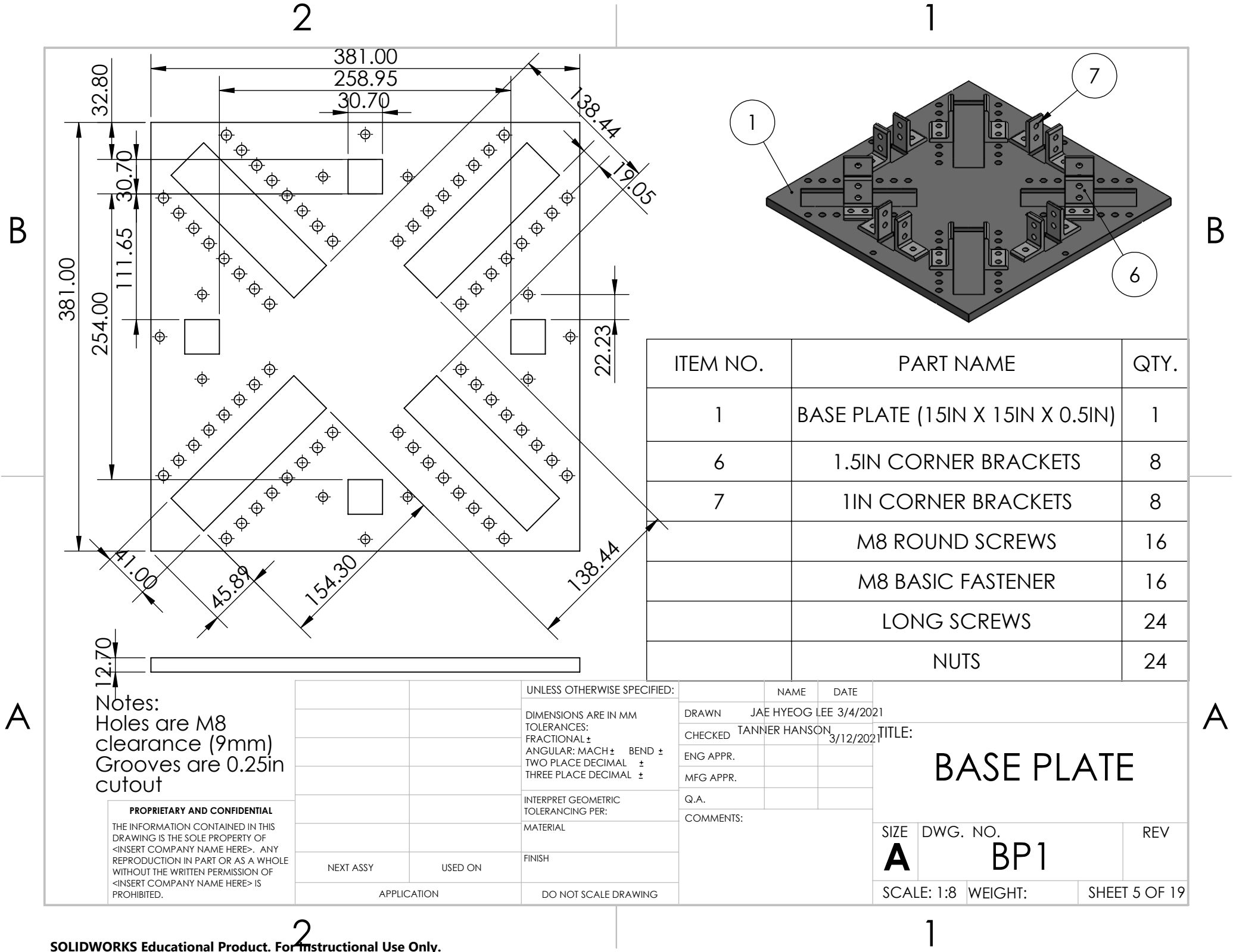
REV

A**DAS1**

SCALE: 1:8

WEIGHT:

SHEET 4 OF 19



ITEM NO.	PART NAME	QTY.
1	BASE PLATE (15IN X 15IN X 0.5IN)	1
6	1.5IN CORNER BRACKETS	8
7	1IN CORNER BRACKETS	8
	M8 ROUND SCREWS	16
	M8 BASIC FASTENER	16
	LONG SCREWS	24
	NUTS	24

Notes:
Holes are M8
clearance (9mm)
Grooves are 0.25in
cutout

PROPRIETARY AND CONFIDENTIAL

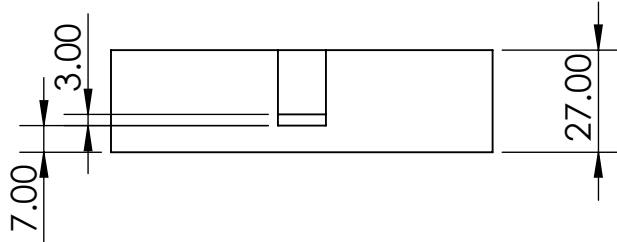
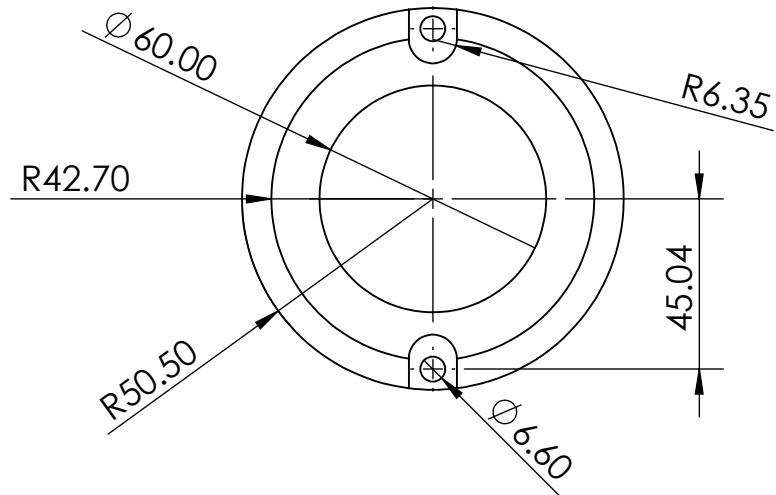
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		TOLERANCES:
		FRACTIONAL: ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

DRAWN	JAE HYEONG LEE	3/4/2021
CHECKED	TANNER HANSON	3/12/2021
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:			BASE PLATE		
SIZE	DWG. NO.			REV	
A	BP1				
SCALE: 1:8		WEIGHT:		SHEET 5 OF 19	

B



NOTE: BILL OF MATERIAL FOR SOLENOID
REFERS TO TOTAL NUMBER OF MATERIALS

ITEM NO.	PART NAME	QTY.
3	SOLENOID	6
4	COIL	6
	M6 SCREWS	12
	M6 FASTENER	12
	M8 SCREW (OPTIONAL)	4
	M8 FASTENER (OPTIONAL)	4

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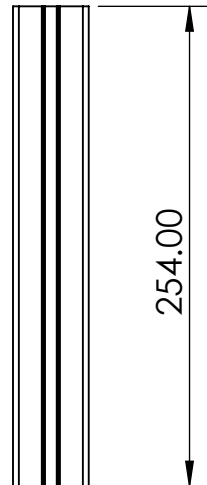
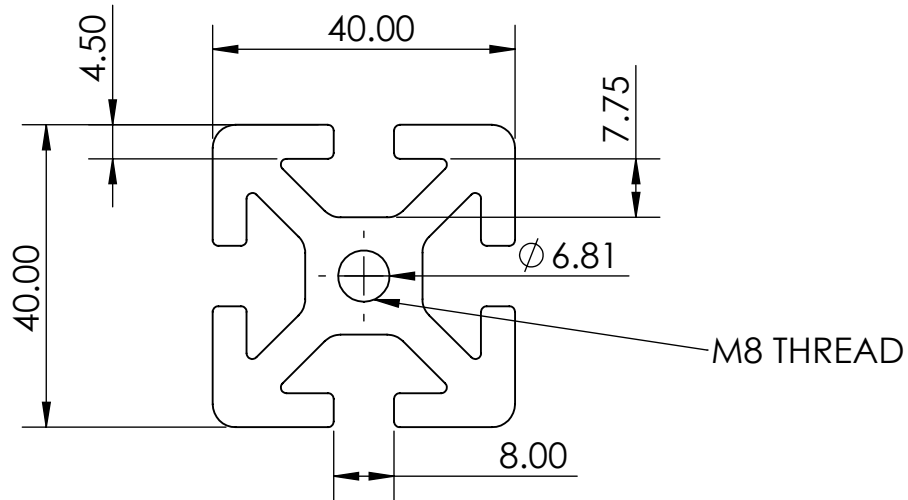
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		DIMENSIONS ARE IN MM
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE	TITLE: <div>SOLENOID</div>		
DRAWN	JAE HYEONG LEE	3/4/2021			
CHECKED	TANNER HANSON	3/12/2021			
ENG APPR.					
MFG APPR.					
Q.A.			SIZE DWG. NO. REV <div>A SOL1</div>		
COMMENTS:					
			SCALE: 1:8 WEIGHT: SHEET 6 OF 19		

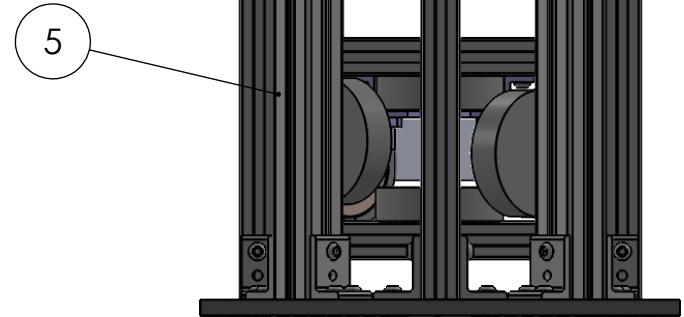
B

A

B



NOTE:
40MM T-SLOTTED FRAMING
RAILS TO HOLD SOLENOIDS



ITEM NO.	PART NAME	QTY.
5	40MM T-SLOTTED FRAMING RAILS	4
	M8 SCREWS	4

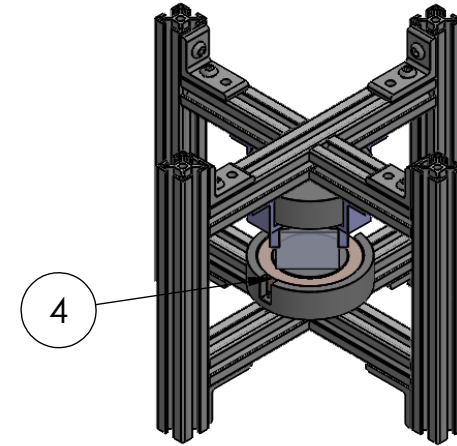
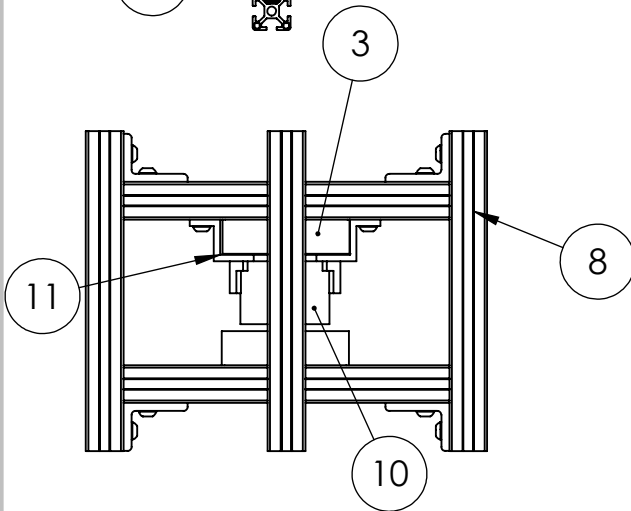
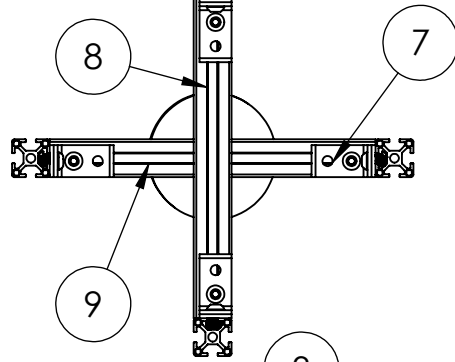
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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: 40MM T-SLOTTED FRAMING RAILS		
		DIMENSIONS ARE IN INCHES	DRAWN	JAE HYEONG LEE			3/4/2021
		TOLERANCES:	CHECKED	TANNER HANSON			3/12/2021
		FRACTIONAL ±	ENG APPR.				
		ANGULAR: MACH ± BEND ±	MFG APPR.				
		TWO PLACE DECIMAL ±				SIZE A	
		THREE PLACE DECIMAL ±					DWG. NO. TB40-10
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			REV	
		MATERIAL	COMMENTS:				
		FINISH	MCMMASTER-CARR PART (5537T507)			SCALE: 1:8	
NEXT ASSY	USED ON						WEIGHT:
APPLICATION		DO NOT SCALE DRAWING	SHEET 7 OF 19				

B



B

ITEM NO.	PART NAME	QTY	DESCRIPTION
3	SOLENOID	2	SOLENOID AND WIRE
4	COIL	2	
7	CORNER BRACKET	8	1IN
8	30MM T-SLOTTED FRAME 10IN	6	10IN
9	30MM T-SLOTTED FRAME 4.5IN	4	4.5IN
10	WORKSPACE	1	50MM X 50MM X 50MM
11	WORKSPACE SUPPORT	1	PLA; 3D PRINTED

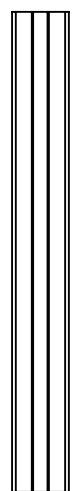
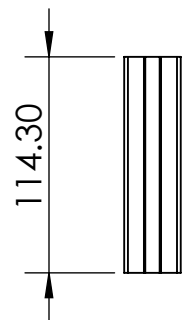
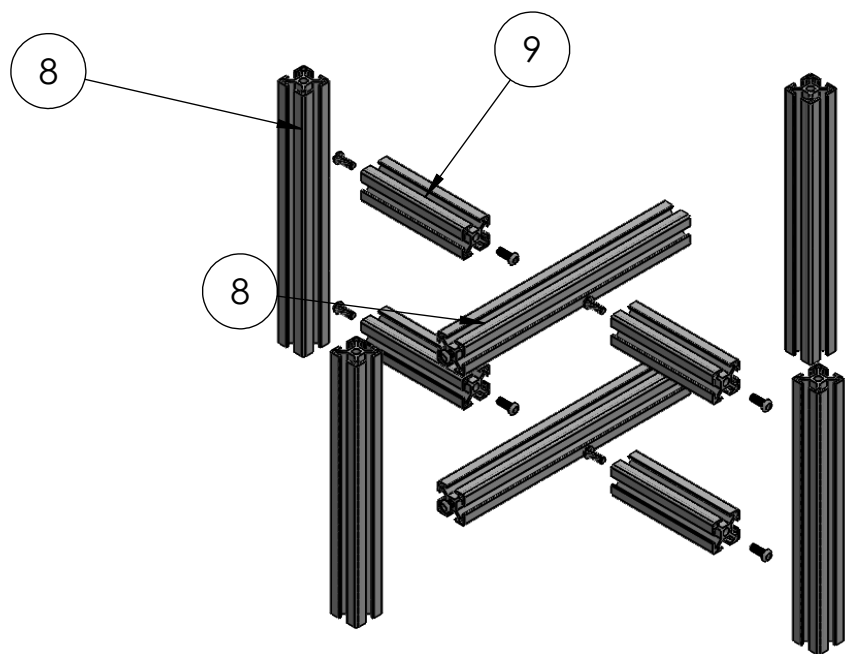
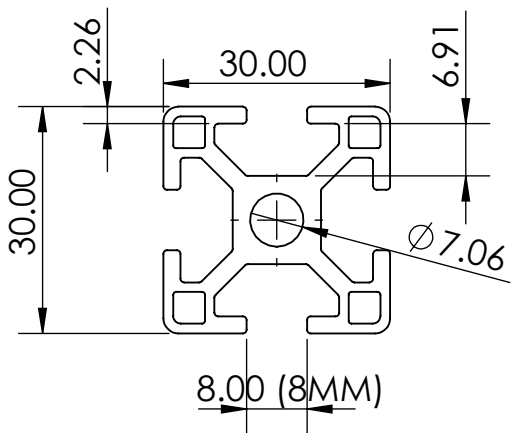
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		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
		FINISH
NEXT ASSY	USED ON	
APPLICATION		DO NOT SCALE DRAWING

DRAWN	JAE HYEONG LEE	DATE	3/4/2021
CHECKED	TANNER HANSON	DATE	3/12/2021
ENG APPR.			
MFG APPR.			
Q.A.			
COMMENTS:			
TITLE: TOP / BOTTOM SUBASSEMBLY			
SIZE	DWG. NO.	REV	
A	TBS1		
SCALE: 1:1		WEIGHT:	SHEET 8 OF 19



PART NUMBER	PART NAME	QTY.
8	30MM T-SLOTTED FRAME 10IN	6
9	30MM T-SLOTTED FRAME 4.5IN	4
	M8 SCREWS	12

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM		DRAWN	JAE HYEONG LEE 3/4/2021
		TOLERANCES:		CHECKED	TANNER HANSON 3/12/2021
		FRACTIONAL ±		ENG APPR.	
		ANGULAR: MACH ± BEND ±		MFG APPR.	
		TWO PLACE DECIMAL ±		Q.A.	
		THREE PLACE DECIMAL ±		COMMENTS:	
		INTERPRET GEOMETRIC TOLERANCING PER:			
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

30MM T-BAR IN TOP/BOTTOM SUBASSEMBLY

SIZE **A** DWG. NO. **TB30-TBS** REV

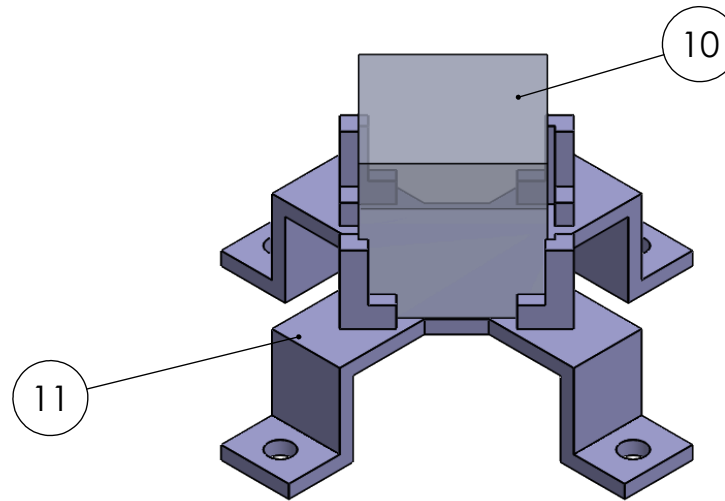
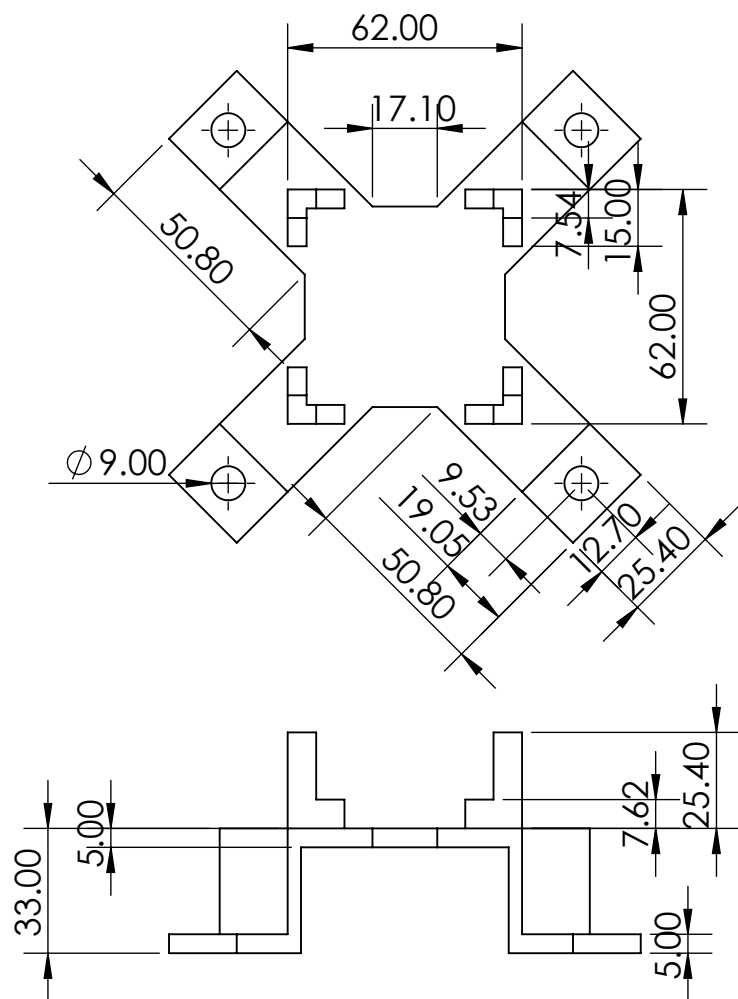
SCALE: 1:8 WEIGHT: SHEET 9 OF 19

B

B

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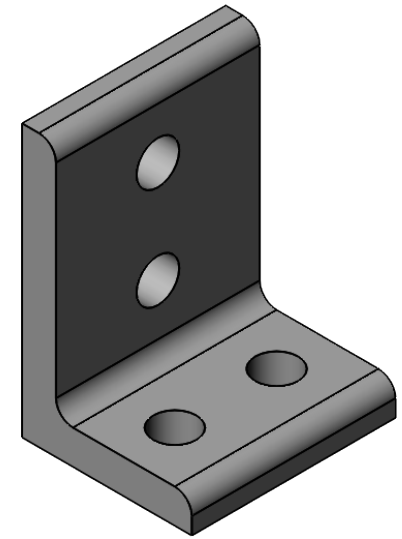
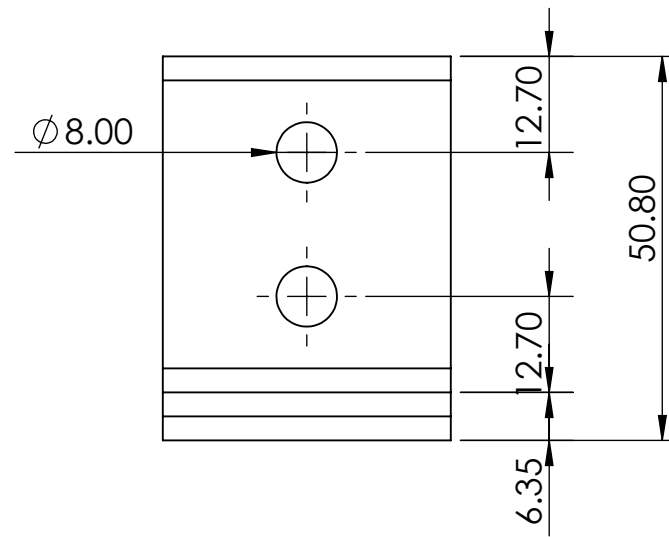
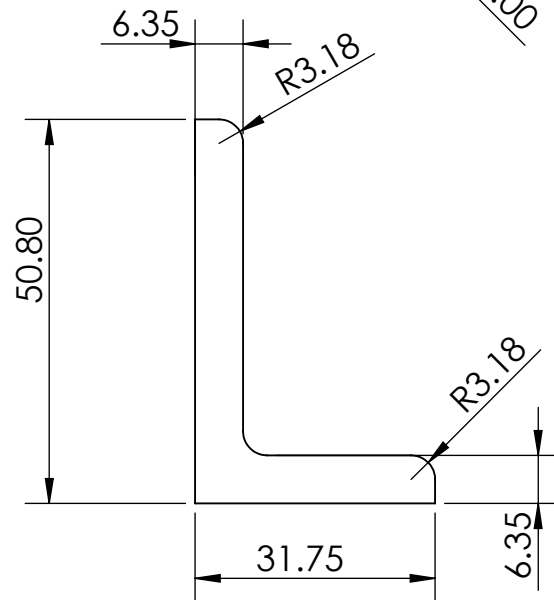
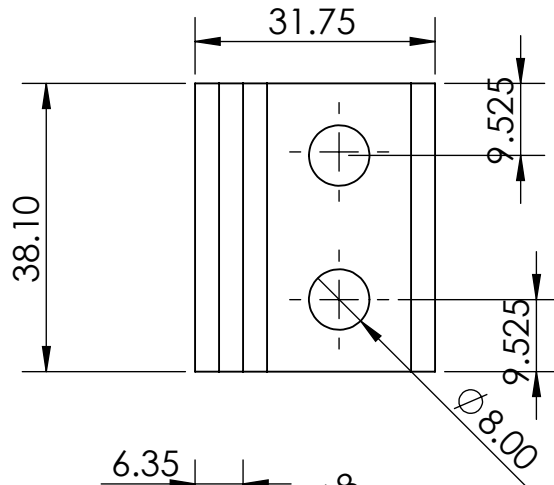
PART NUMBER	PART NAME	QTY.
10	50MM X 50MM X 50MM WORKSPACE	1
11	WORKSPACE SUPPORT	1
	M8 SCREWS	4
	M8 TAB NUT	4

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		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

DRAWN	JAE HYEONG LEE	DATE	3/4/2021
CHECKED	TANNER HANSON	DATE	3/12/2021
ENG APPR.			
MFG APPR.			
Q.A.			
COMMENTS:			
TITLE: WORKSPACE SUPPORT			
SIZE	DWG. NO.	REV	
A	WS1		
SCALE: 1:1		WEIGHT:	SHEET 10 OF 19

B



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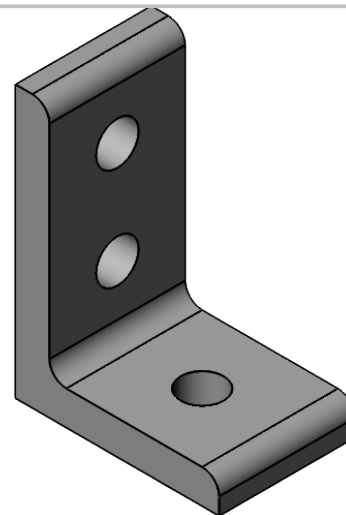
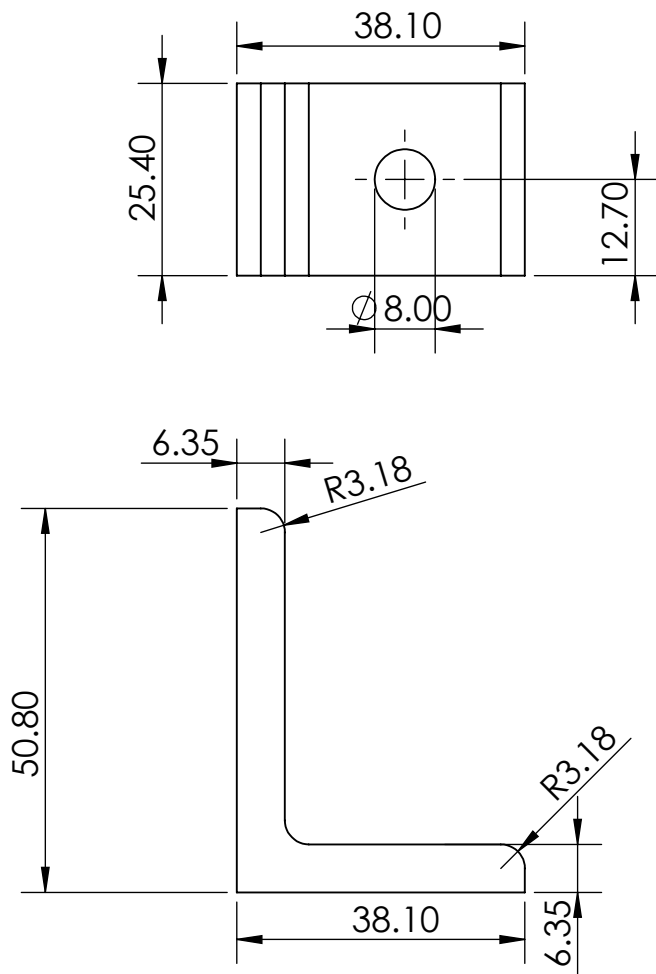
NOTE: CORNER
BRACKETS ARE CUT
FROM 90 DEGREE
ANGLE FROM
MCMASTER-CARR
(PART NUMBER:
8982K136)

		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: Corner Bracket 40mm			
		DIMENSIONS ARE IN MM	DRAWN	JAE HYEONG LEE				3/4/21
		TOLERANCES: FRACTIONAL ±	CHECKED	TANNER HANSON				3/12/2021
		ANGULAR: MACH ± BEND ±	ENG APPR.					
		TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A CB40		
		MATERIAL	COMMENTS:					
NEXT ASSY	USED ON	FINISH				SCALE: 1:1	WEIGHT:	SHEET 11 OF 19
APPLICATION		DO NOT SCALE DRAWING						

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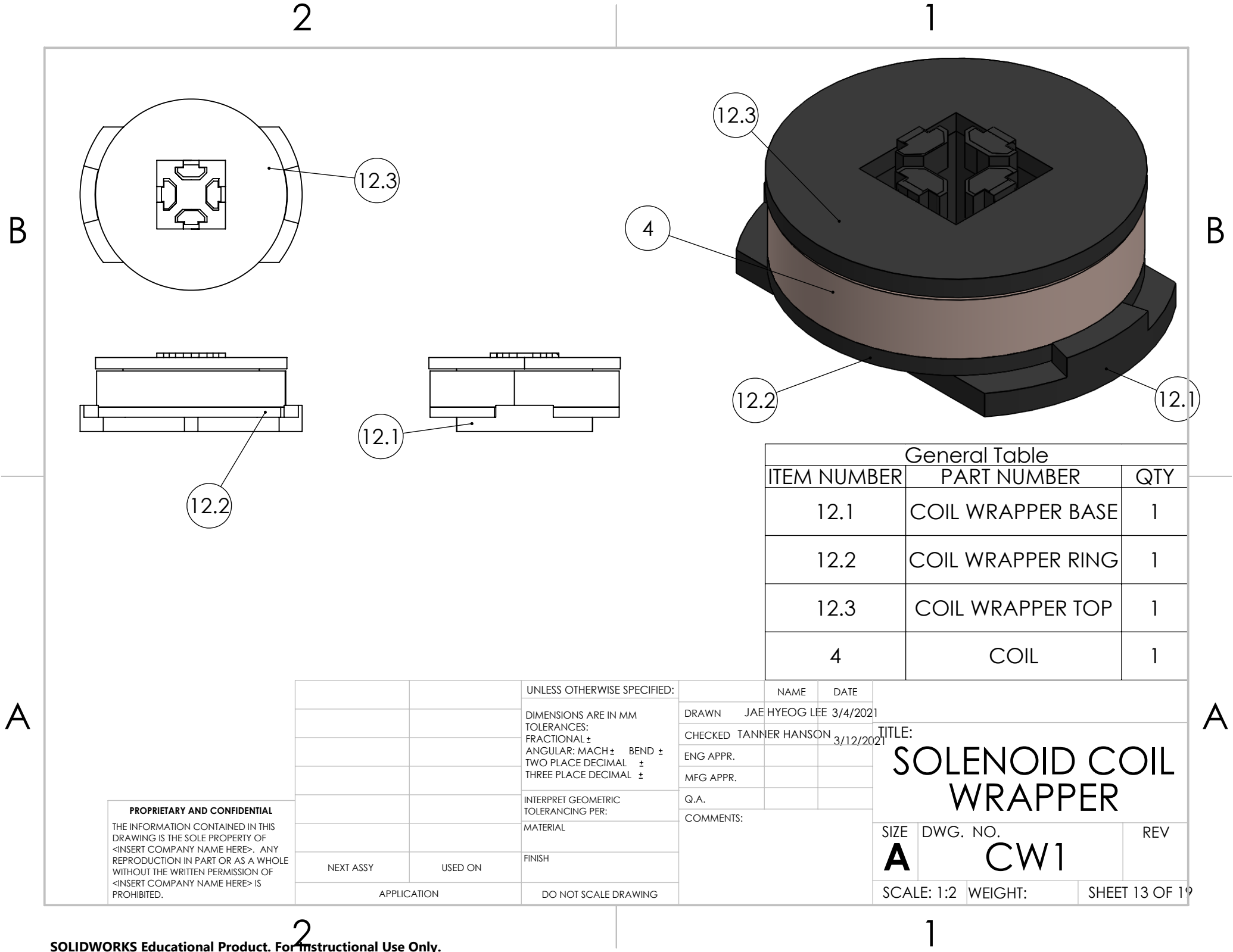


B

A

NOTE: CORNER
BRACKETS ARE CUT
FROM 90 DEGREE
ANGLE FROM
MCMASTER-CARR
(PART NUMBER:
8982K136)

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: Corner Bracket 30mm						
		DIMENSIONS ARE IN MM	DRAWN	JAE HYEONG LEE	3/4/2021							
		TOLERANCES:	CHECKED	TANNER HANSON	3/12/2021							
		FRACTIONAL ±	ENG APPR.									
		ANGULAR: MACH ± BEND ±	MFG APPR.									
		TWO PLACE DECIMAL ±				SIZE A				DWG. NO. CB30		REV
		THREE PLACE DECIMAL ±										
		INTERPRET GEOMETRIC	Q.A.									
		TOLERANCING PER:	COMMENTS:									
		MATERIAL										
		FINISH										
NEXT ASSY	USED ON											
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1		WEIGHT:		SHEET 12 OF 19		



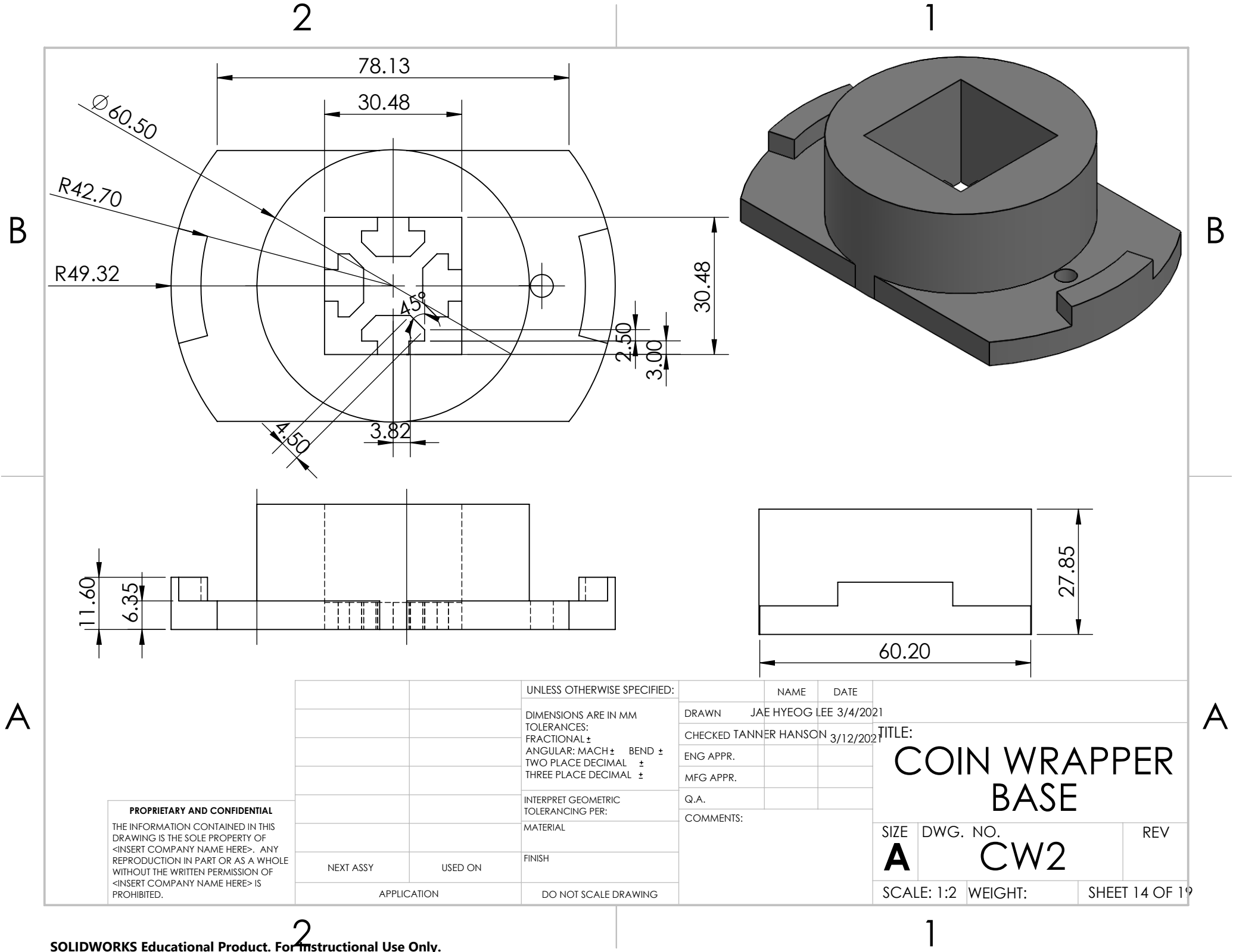
General Table		
ITEM NUMBER	PART NUMBER	QTY
12.1	COIL WRAPPER BASE	1
12.2	COIL WRAPPER RING	1
12.3	COIL WRAPPER TOP	1
4	COIL	1

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

NAME	DATE
DRAWN JAE HYEONG LEE	3/4/2021
CHECKED TANNER HANSON	3/12/2021
ENG APPR.	
MFG APPR.	
Q.A.	
COMMENTS:	

TITLE: SOLENOID COIL WRAPPER		
SIZE A	DWG. NO. CW1	REV
SCALE: 1:2	WEIGHT:	SHEET 13 OF 19



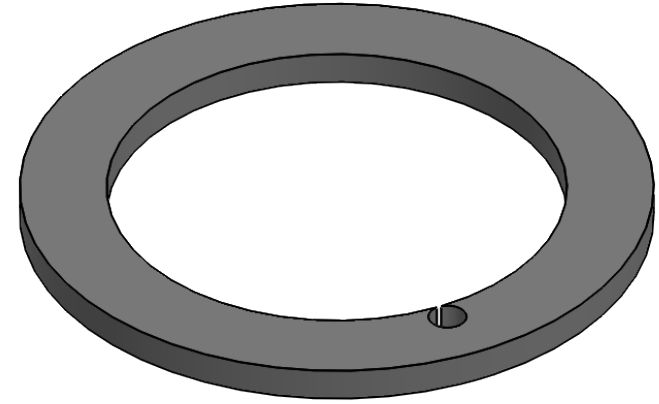
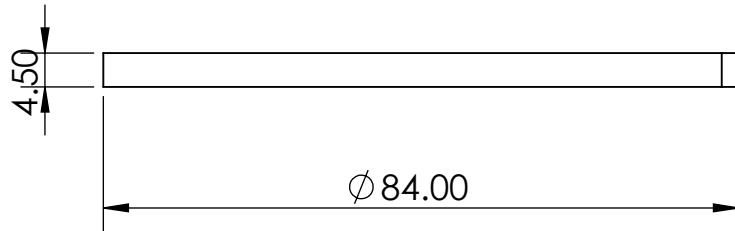
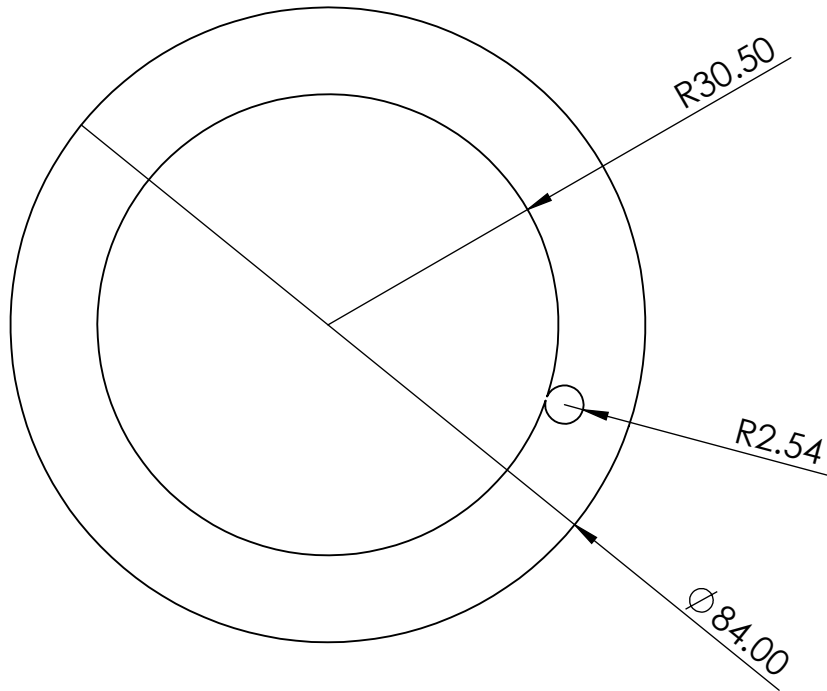
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		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MM
		TOLERANCES:
		FRACTIONAL \pm
		ANGULAR: MACH \pm BEND \pm
		TWO PLACE DECIMAL \pm
		THREE PLACE DECIMAL \pm
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION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

	NAME	DATE
DRAWN	JAE HYEONG LEE	3/4/2021
CHECKED	TANNER HANSON	3/12/2021
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:		
COIN WRAPPER BASE		
SIZE	DWG. NO.	REV
A	CW2	
SCALE: 1:2	WEIGHT:	SHEET 14 OF 19

B



B

A

A

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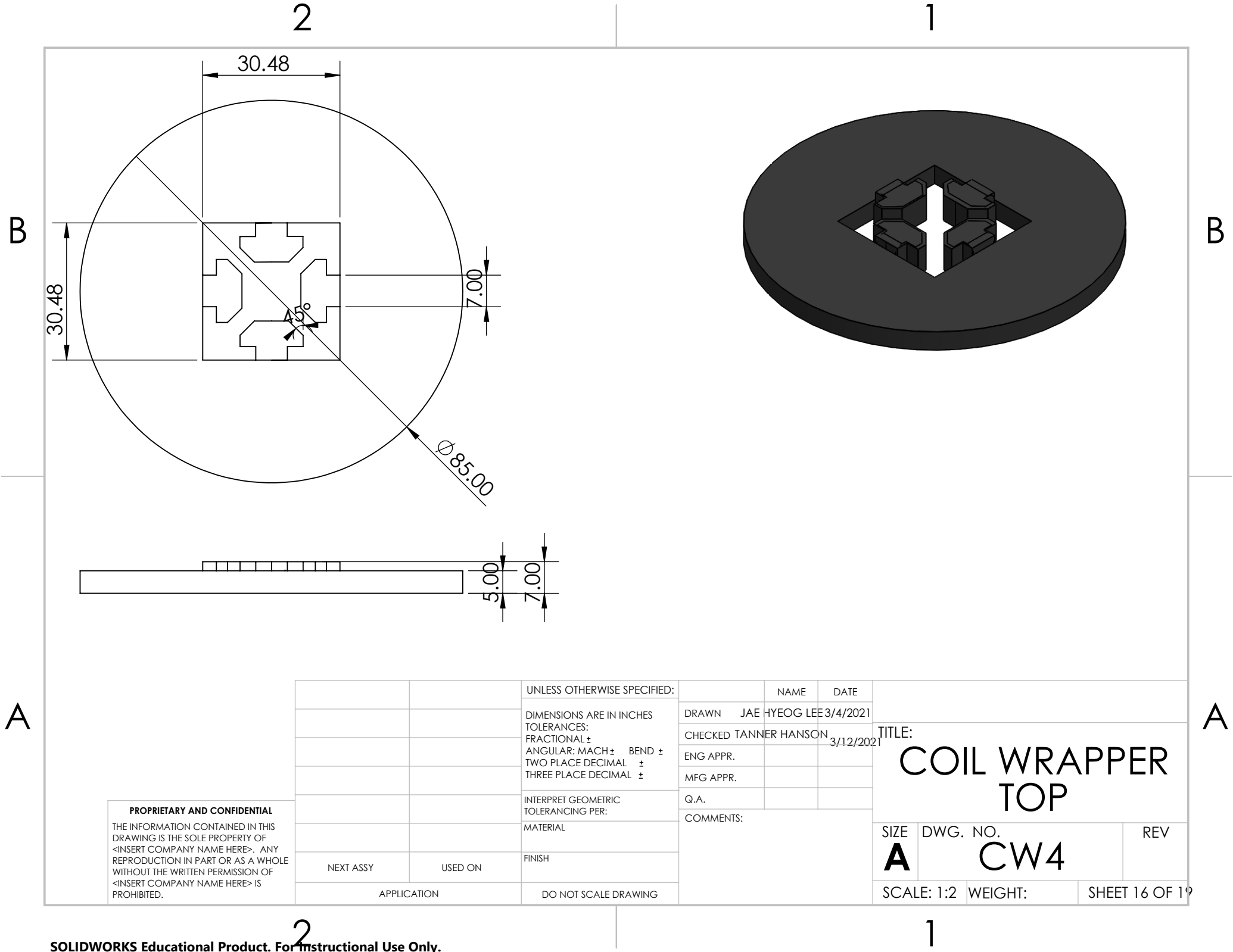
		UNLESS OTHERWISE SPECIFIED:
		DIMENSIONS ARE IN MM
		TOLERANCES:
		FRACTIONAL ±
		ANGULAR: MACH ± BEND ±
		TWO PLACE DECIMAL ±
		THREE PLACE DECIMAL ±
		INTERPRET GEOMETRIC TOLERANCING PER:
		MATERIAL
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JAE HYEONG LEE	3/4/2021
CHECKED	TANNER HANSON	3/12/2021
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:

COIL WRAPPER RING

SIZE	DWG. NO.	REV
A	CW3	
SCALE: 1:2	WEIGHT:	SHEET 15 OF 19



A

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
NEXT ASSY	USED ON	FINISH
APPLICATION		DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	JAE HYEONG LEE	3/4/2021
CHECKED	TANNER HANSON	3/12/2021
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

TITLE:
**COIL WRAPPER
TOP**

SIZE	DWG. NO.	REV
A	CW4	

SCALE: 1:2 WEIGHT: SHEET 16 OF 19

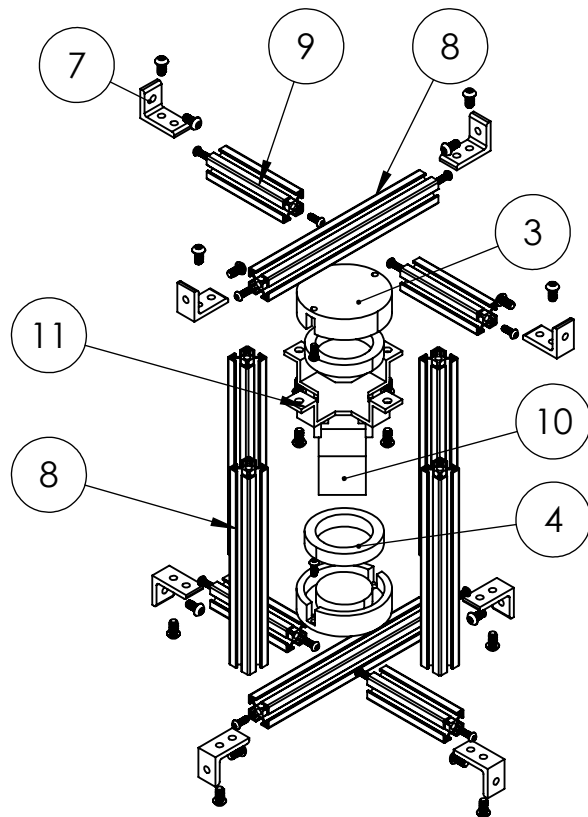
1

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SCALE: 1:16	WEIGHT:	SHEET 17 OF 19
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1

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ITEM NO.	PART NAME	QTY	DESCRIPTION
3	SOLENOID	2	SOLENOID AND WIRE
4	COIL	2	
7	CORNER BRACKET	8	1IN
8	30MM T-SLOTTED FRAME 10IN	6	10IN
9	30MM T-SLOTTED FRAME 4.5IN	4	4.5IN
10	WORKSPACE	1	50MM X 50MM X 50MM
11	WORKSPACE SUPPORT	1	PLA; 3D PRINTED
	M6 SCREWS	16	WORKSPACE SUPPORT
	M6 FASTENER	16	WORKSPACE SUPPORT
	M8 SCREW	20	CORNER BRACKETS / SOLENOIDS
	M8 FASTENER	20	CORNER BRACKETS / SOLENOIDS

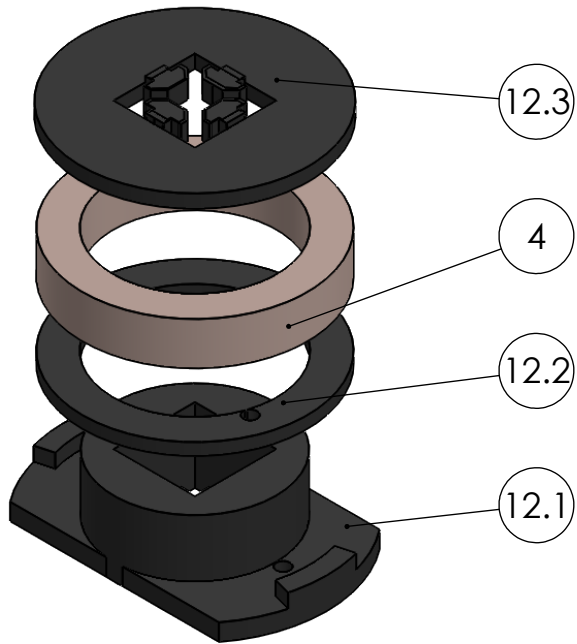
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	TITLE: TOP BOTTOM SUBASSEMBLY EXPLODE VIEW SIZE DWG. NO. REV A TBS2 SCALE: 1:12 WEIGHT: SHEET 18 OF 19
		DIMENSIONS ARE IN INCHES		DRAWN	JAE HYEONG LEE 3/12/2021	
		TOLERANCES:		CHECKED	TANNER HANSON 3/12/2021	
		FRACTIONAL ±		ENG APPR.		
		ANGULAR: MACH ± BEND ±		MFG APPR.		
		TWO PLACE DECIMAL ±		Q.A.		
		THREE PLACE DECIMAL ±		COMMENTS:		
		INTERPRET GEOMETRIC TOLERANCING PER:				
		MATERIAL				
NEXT ASSY		USED ON				
APPLICATION		DO NOT SCALE DRAWING				

B

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ITEM NUMBER	PART NUMBER	QTY
12.1	COIL WRAPPER BASE	1
12.2	COIL WRAPPER RING	1
12.3	COIL WRAPPER TOP	1
4	COIL	1

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		UNLESS OTHERWISE SPECIFIED:	NAME	DATE	TITLE: COIL WRAPPING JIG EXPLODE VIEW	
		DIMENSIONS ARE IN INCHES	DRAWN	JAE H YEOG LEE		
		TOLERANCES:	CHECKED	TANNER HANSON		
		FRACTIONAL ±	ENG APPR.			
		ANGULAR: MACH ± BEND ±	MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.		SIZE	DWG. NO.
		THREE PLACE DECIMAL ±	COMMENTS:		A	CW5
		INTERPRET GEOMETRIC TOLERANCING PER:				REV
		MATERIAL				
		FINISH				
NEXT ASSY	USED ON					
APPLICATION		DO NOT SCALE DRAWING				

SCALE: 1:8 WEIGHT: SHEET 19 OF 19