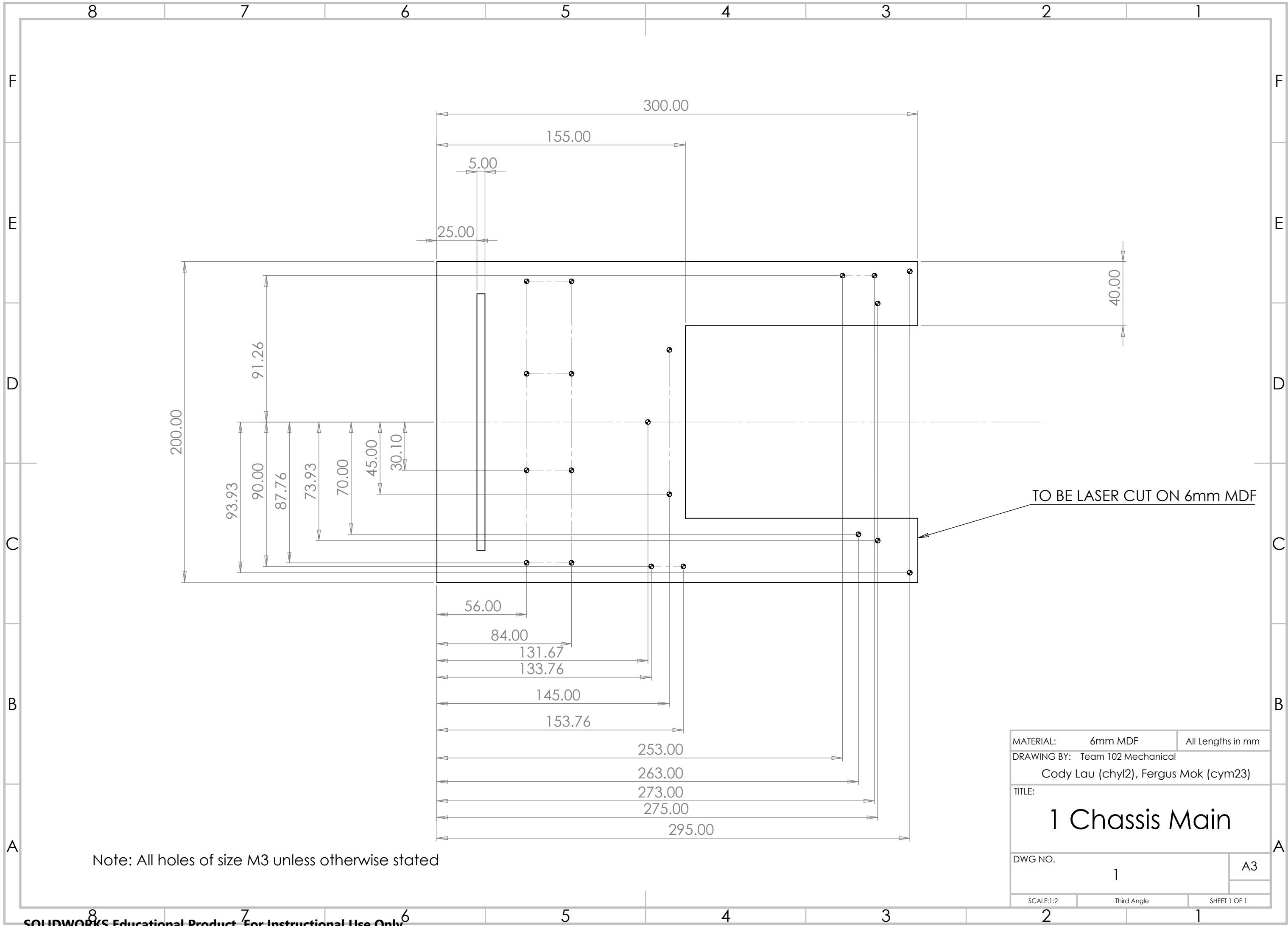
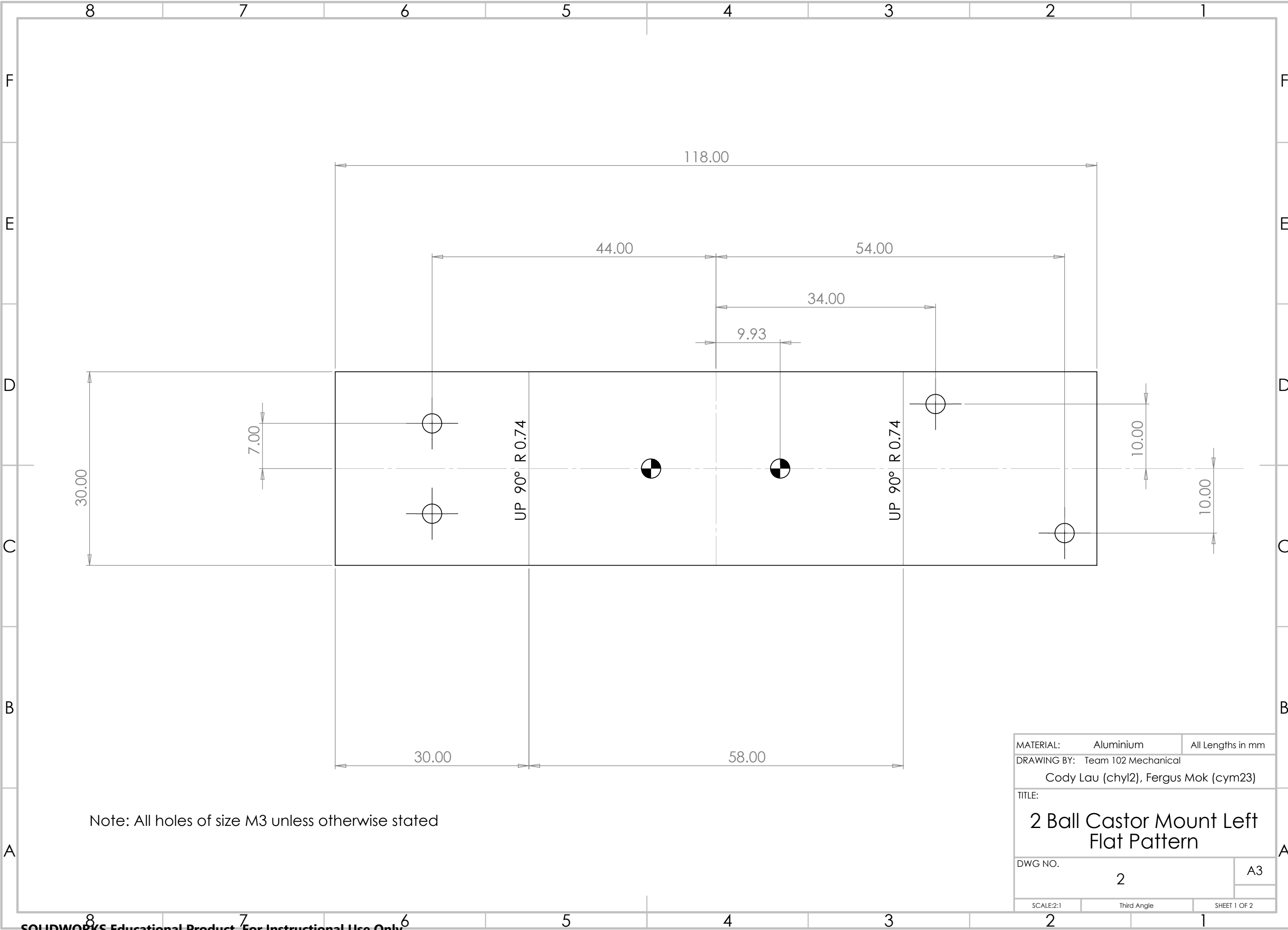


ITEM NO.	PART NAME	DWG NO.	QTY.
1	Chassis Main	1	1
2	Ball Castor Mount Left	2	1
3	Ball Castor Mount Right	3	1
4	Line Follower mount	4	1
5	Motor Mount Large	5	2
6	Motor Mount Small	6	2
7	Motor-40	N/A	2
8	shelf laser cut	8	1
9	Shelf mount	9	2
10	Wheel-100mm	N/A	2
11	arm assembly	11	1
12	Curve Assembly	12	1
13	LED Panel	13	1
14	Servo Assembly	N/A	1
15	Ultrasonic Sensor Mount Back Assembly	15	1
16	Ultronic Sensor Side Assembly	16	1
17	Arm rod support	17	1
18	wall assembly left	18	1
19	wall assembly right	19	1
20	ramp	20	1
21	Hall Sensor Mount	21	1
22	ball castor	22	2
23	Motor-10	N/A	1
24	spur_gear_20	N/A	1

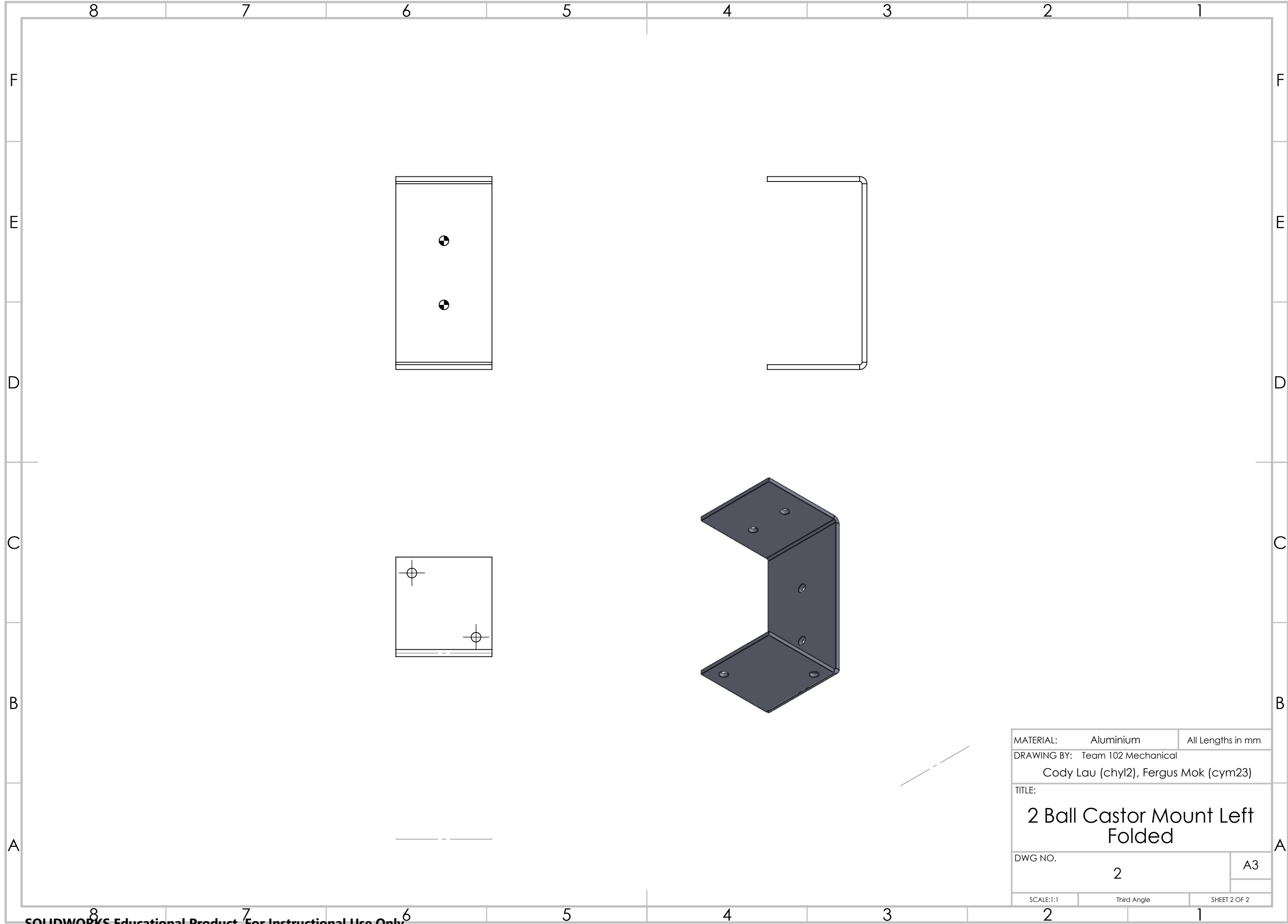
MATERIAL: Aluminium, Steel, MDF	All Lengths in mm
DRAWING BY: Team 102 Mechanical	
Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	
OVERALL ASSEMBLY	
DWG NO.	A3
0	
SCALE:1:5	Third Angle
SHEET 1 OF 1	



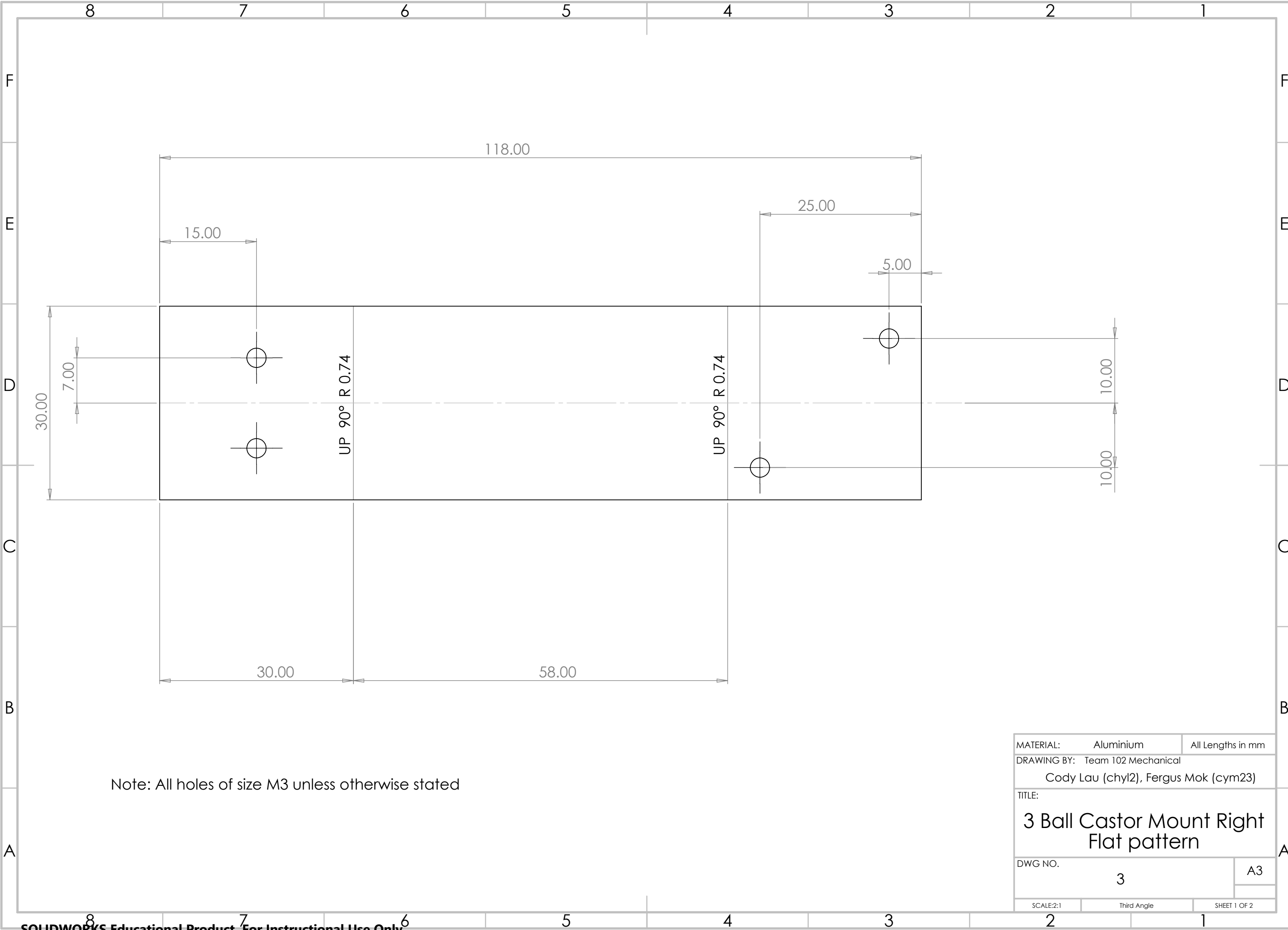


Note: All holes of size M3 unless otherwise stated

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	2 Ball Castor Mount Left Flat Pattern	
DWG NO.	2	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2

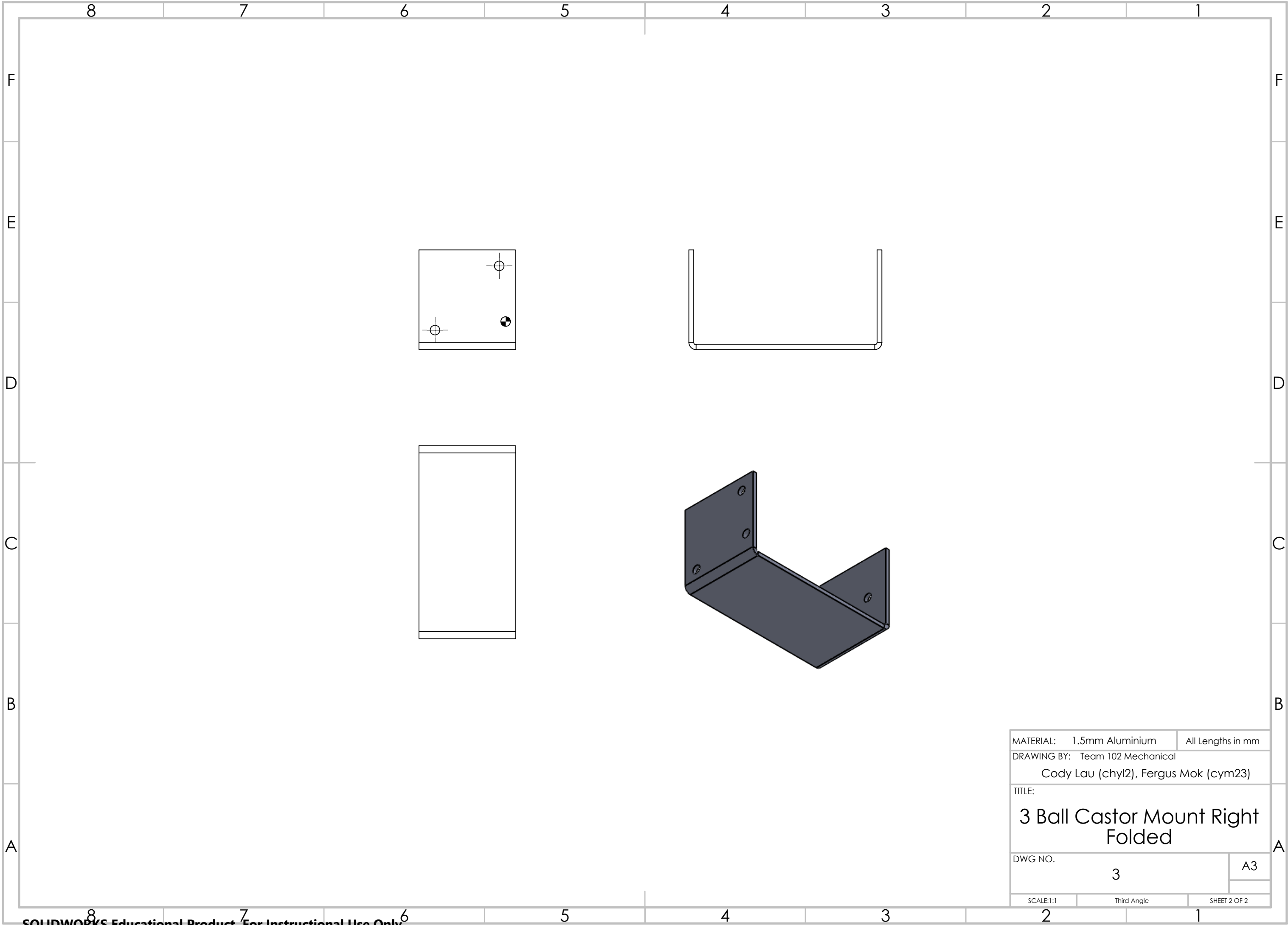


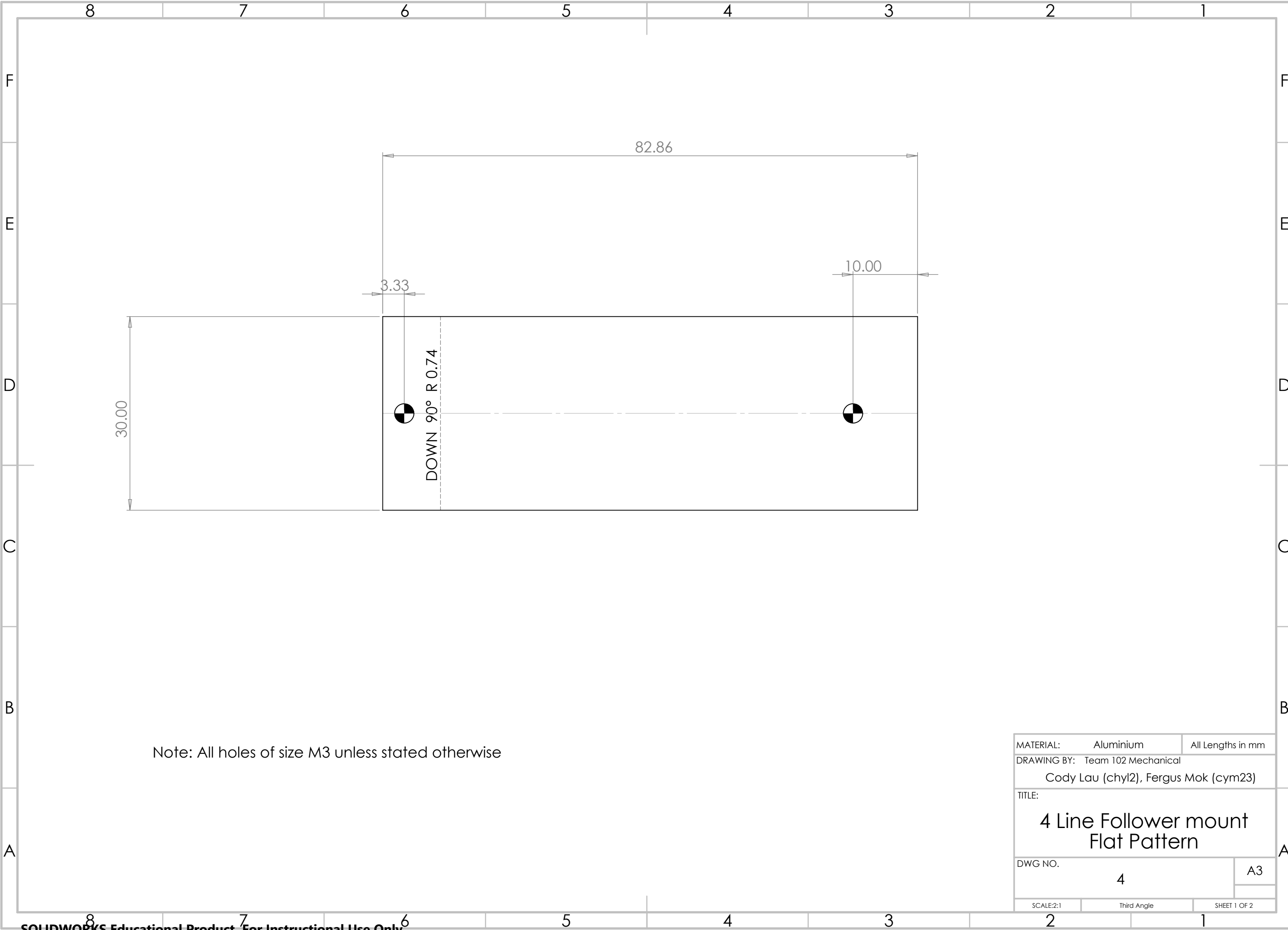
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	2 Ball Castor Mount Left Folded	
DWG NO.	2	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



Note: All holes of size M3 unless otherwise stated

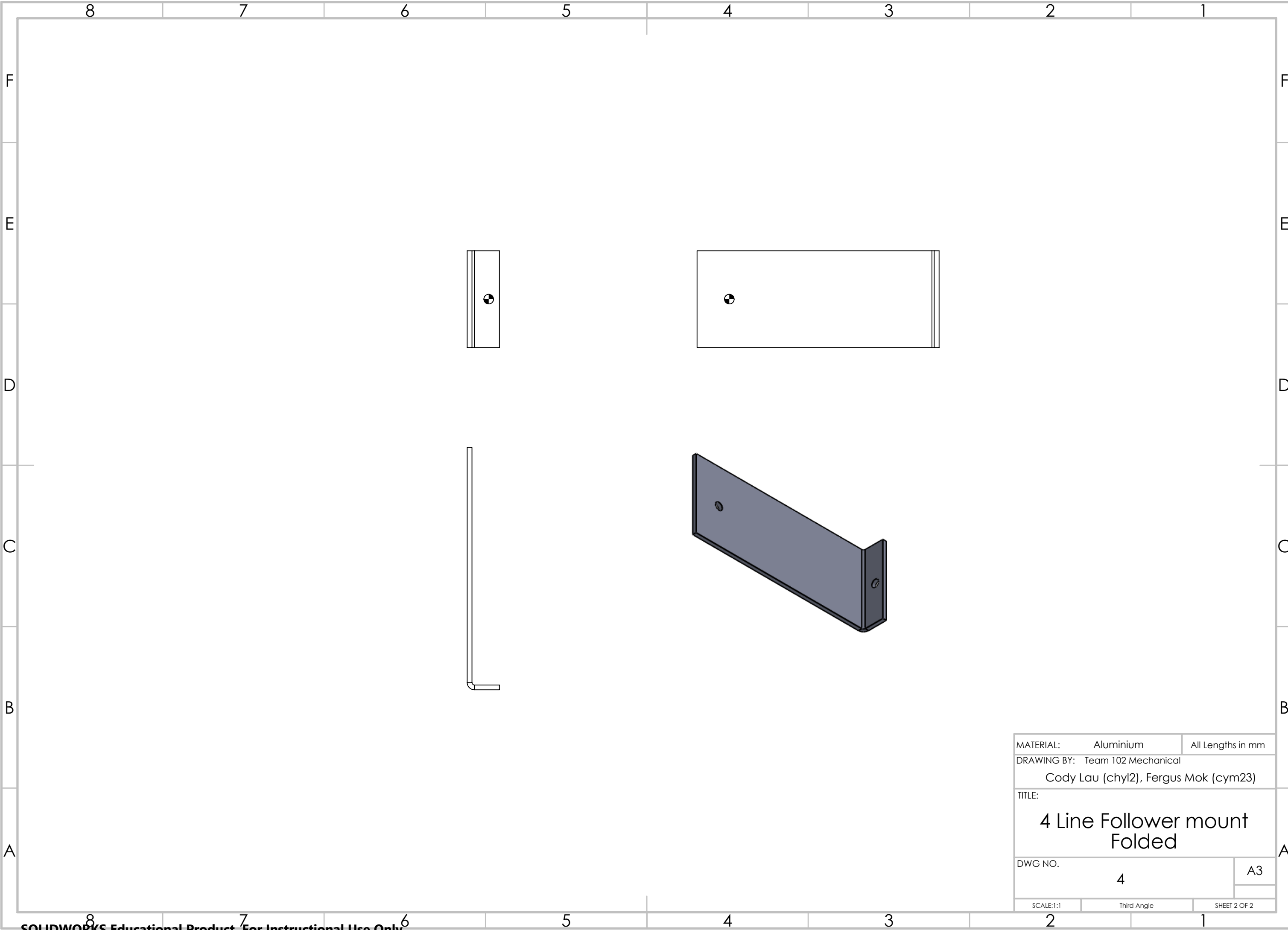
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	3 Ball Castor Mount Right Flat pattern	
DWG NO.	3	A3
SCALE: 2:1	Third Angle	SHEET 1 OF 2





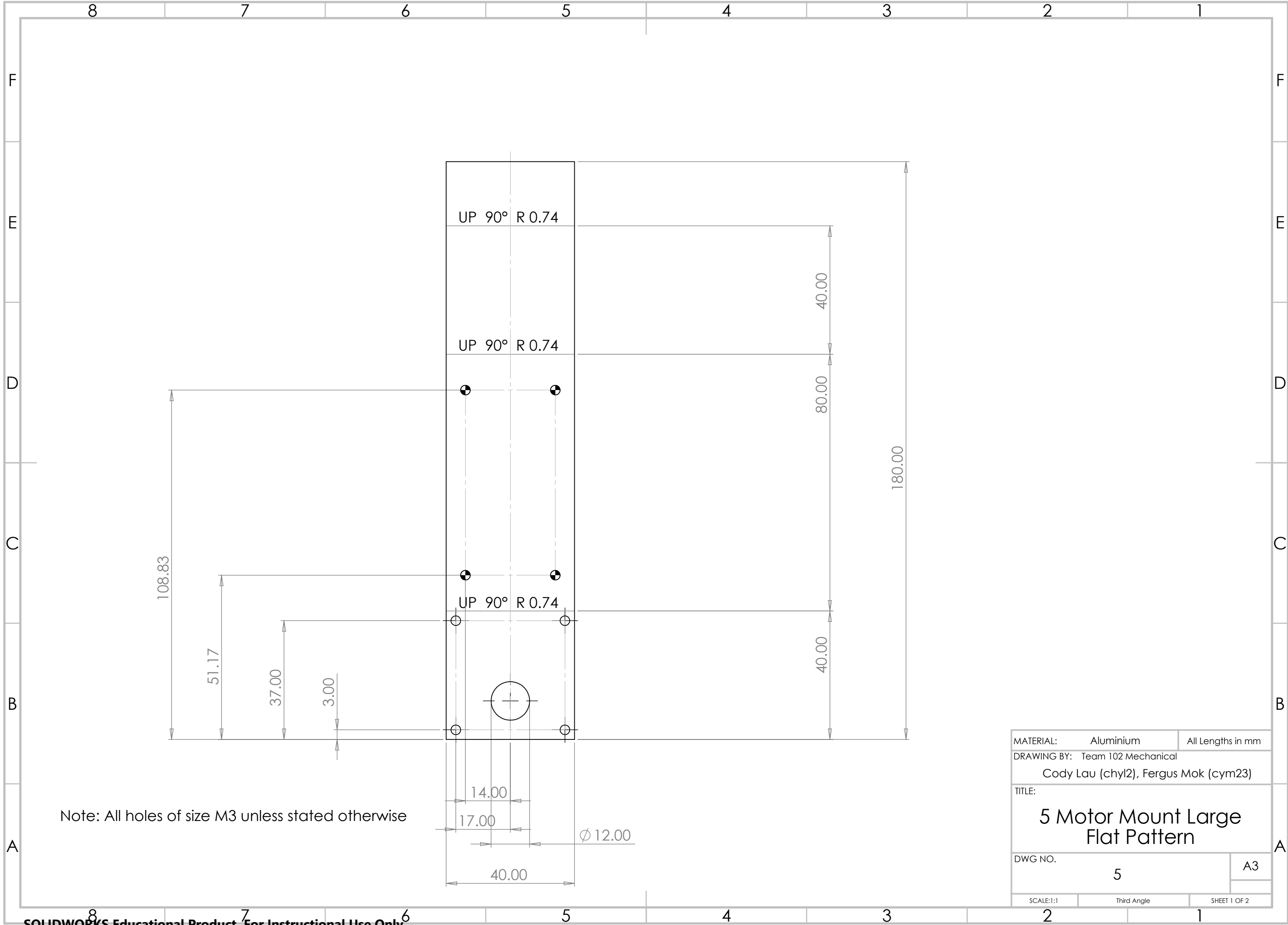
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	4 Line Follower mount Flat Pattern	
DWG NO.	4	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2



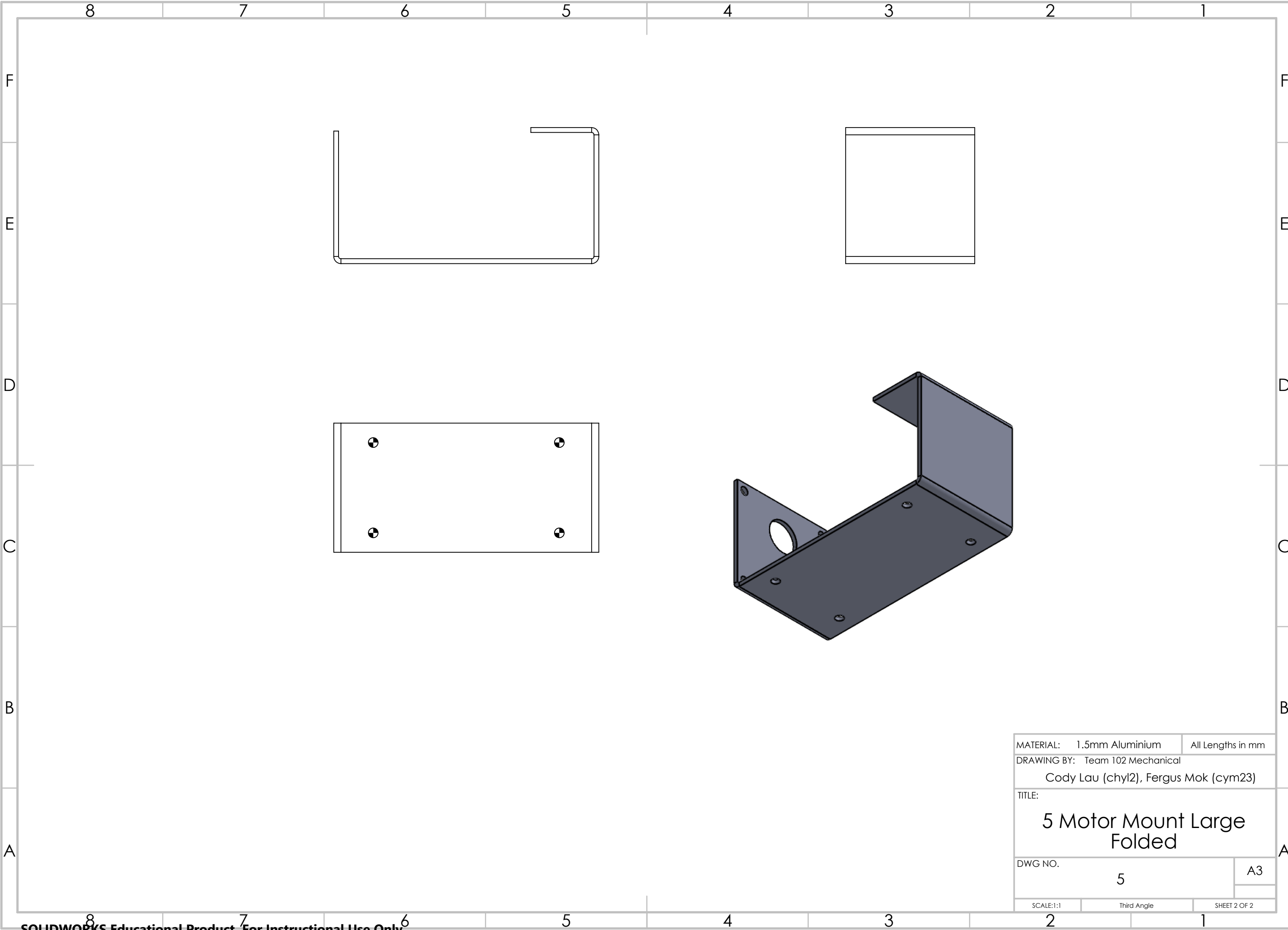
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	4 Line Follower mount Folded	
DWG NO.	4	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



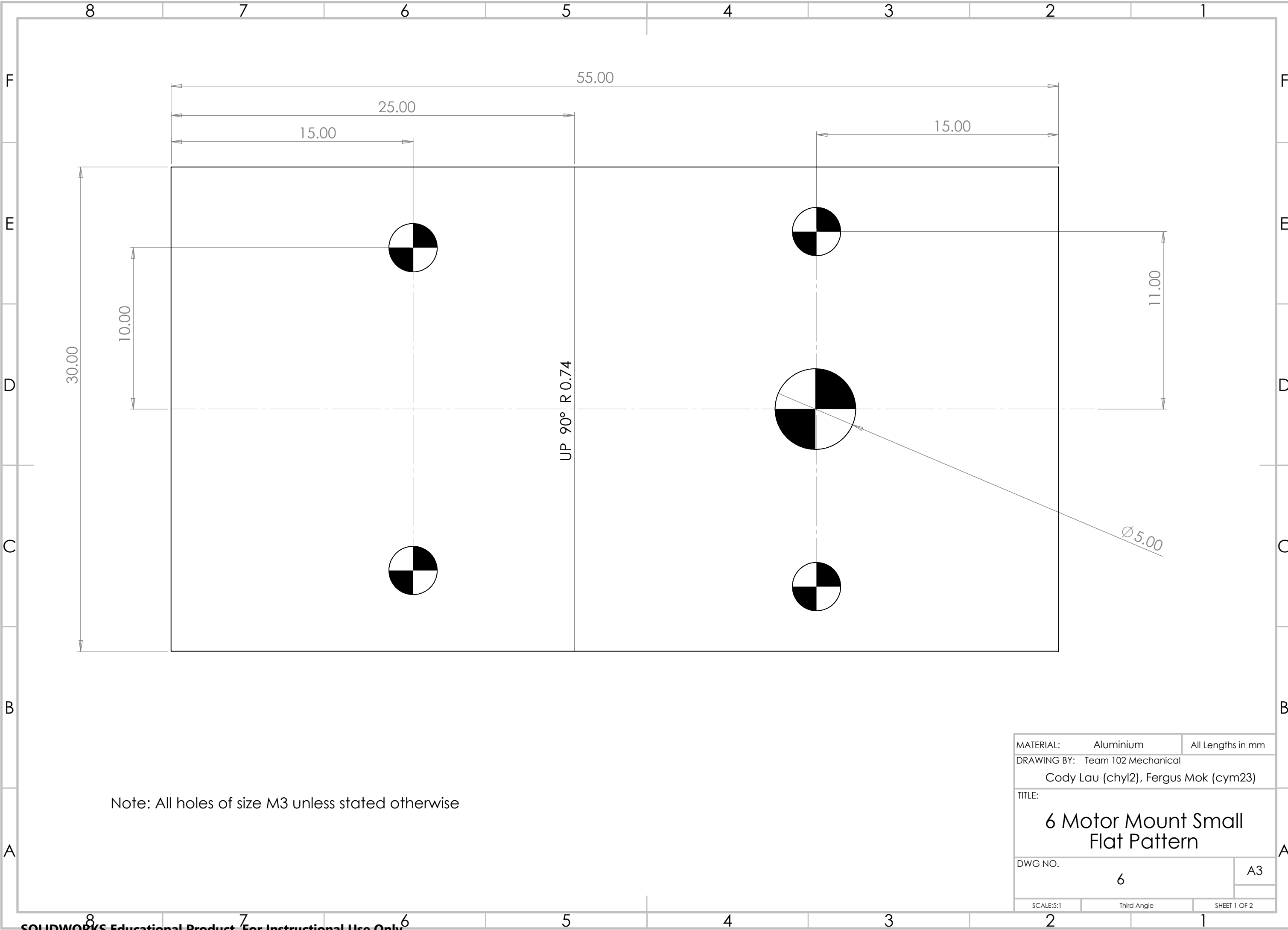


Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	5 Motor Mount Large Flat Pattern	
DWG NO.	5	A3
SCALE:1:1	Third Angle	SHEET 1 OF 2

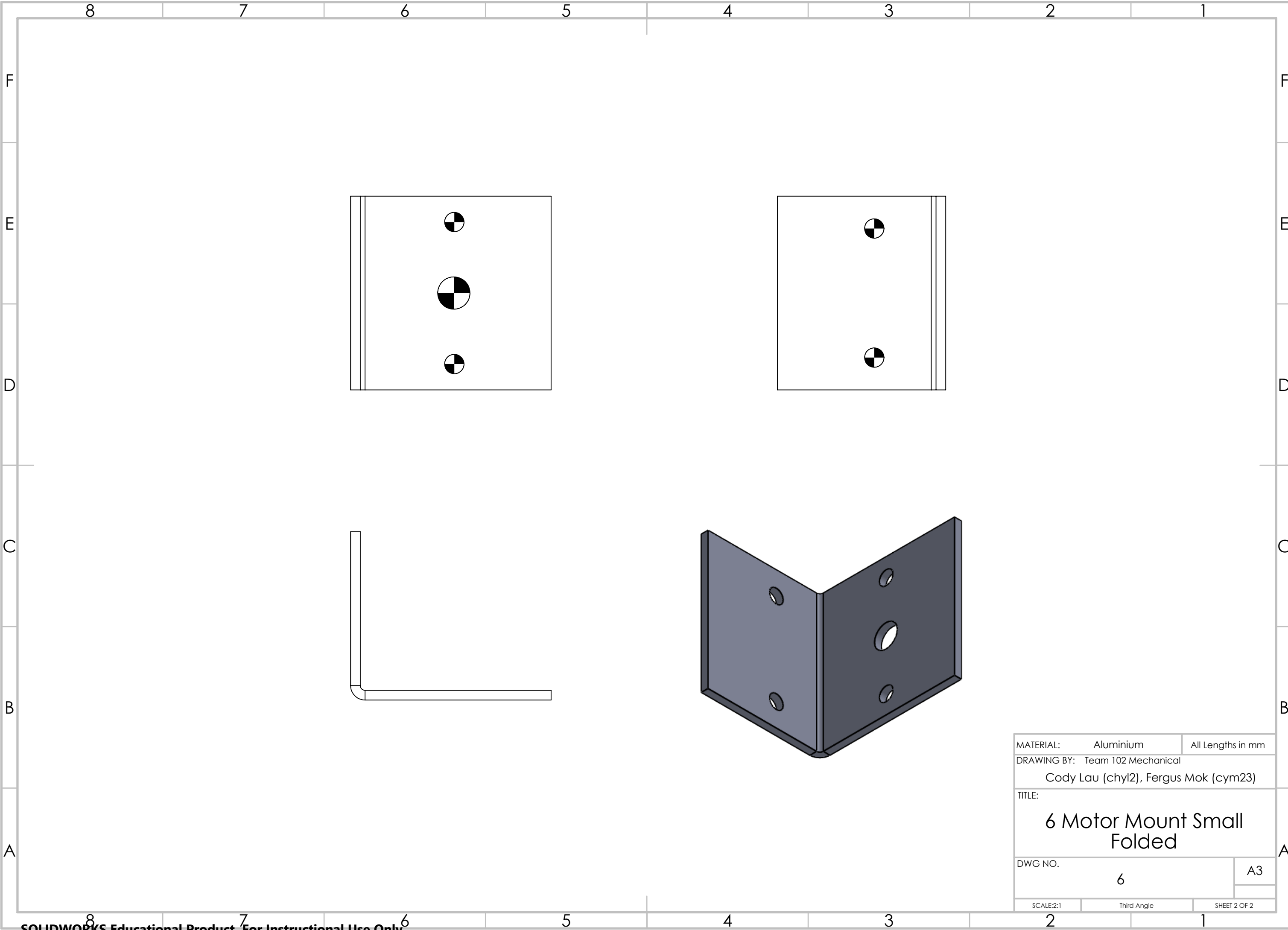


MATERIAL:	1.5mm Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	5 Motor Mount Large Folded	
DWG NO.	5	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2

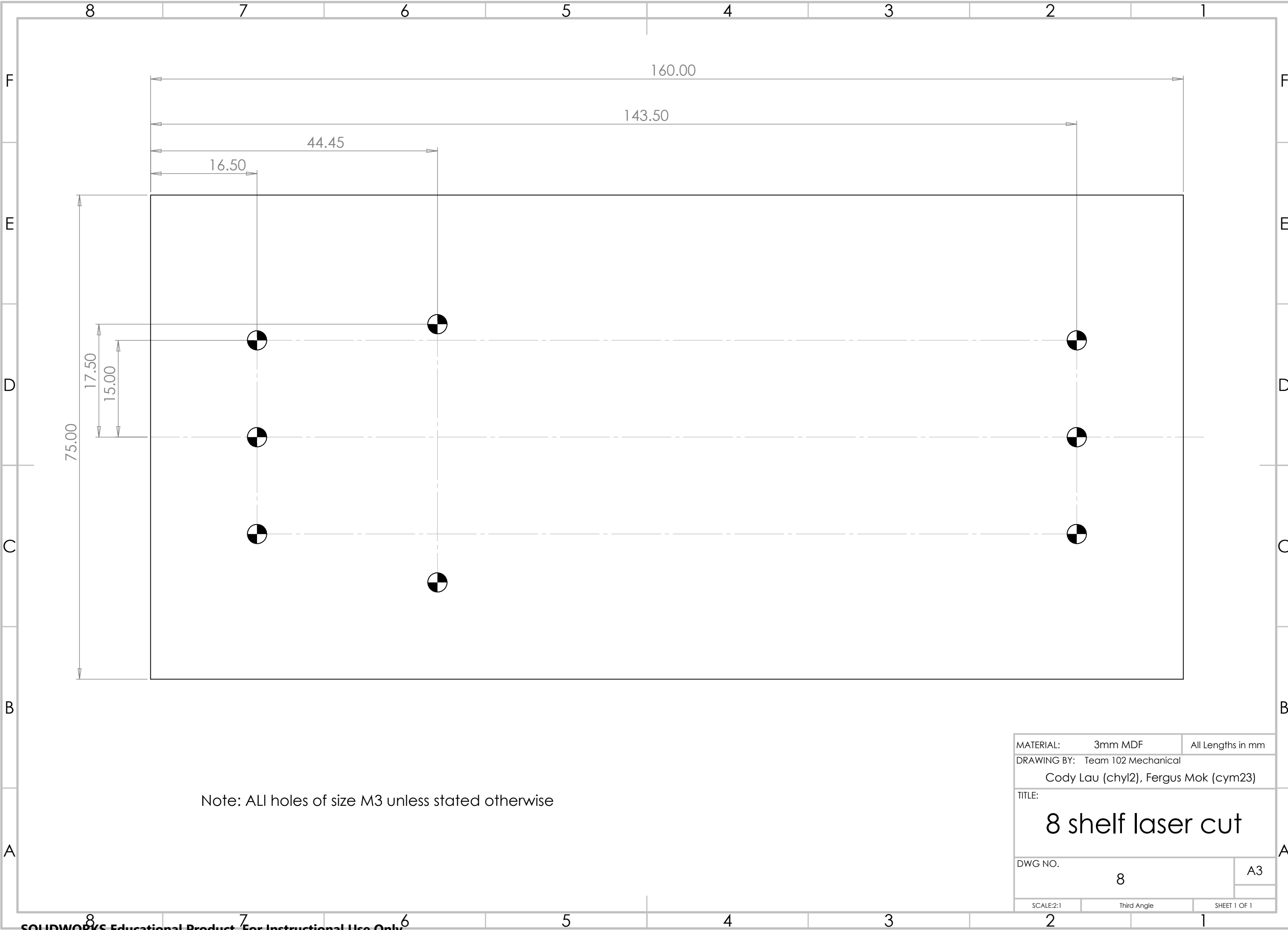


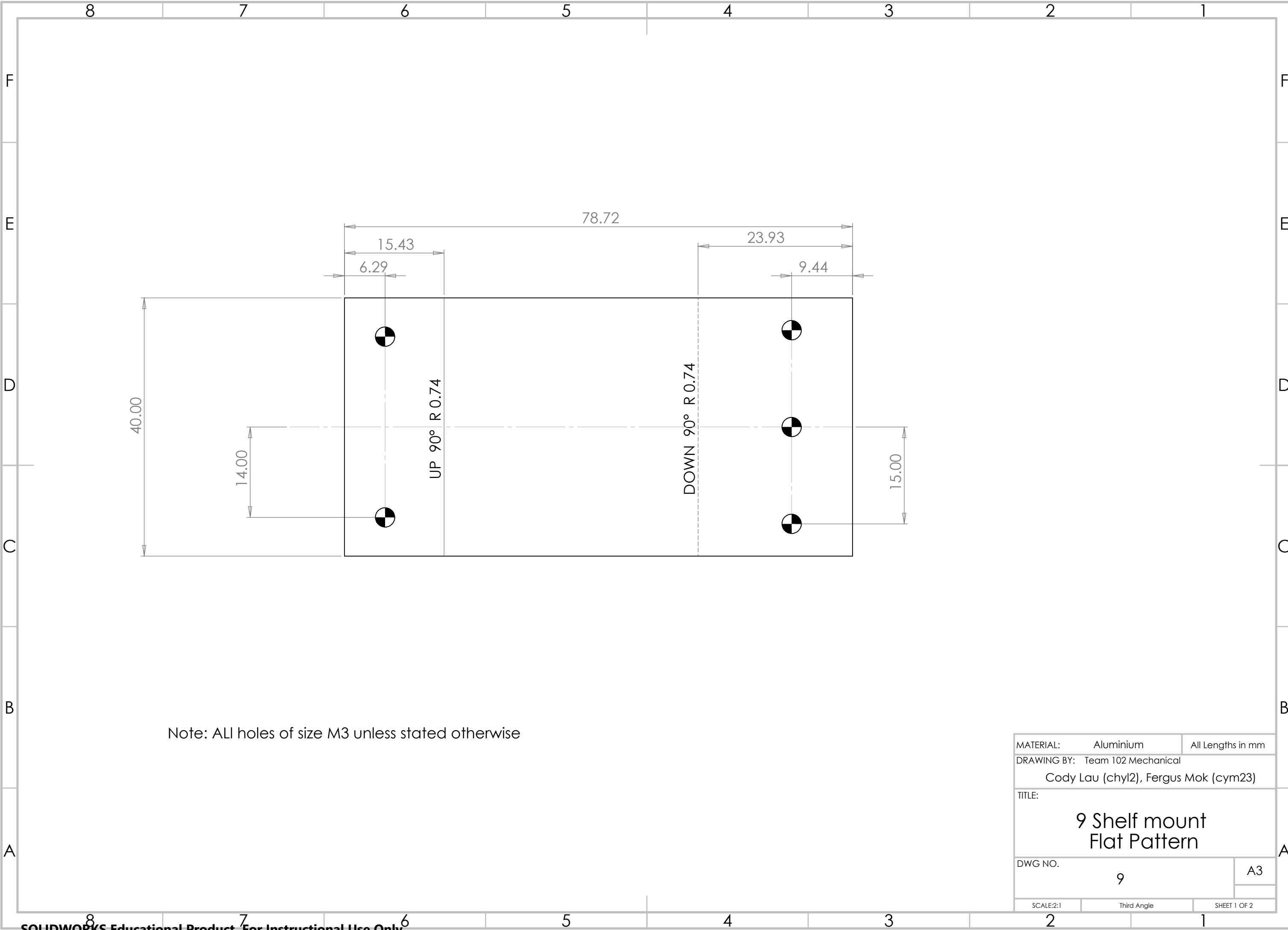
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	6 Motor Mount Small Flat Pattern	
DWG NO.	6	A3
SCALE:5:1	Third Angle	SHEET 1 OF 2



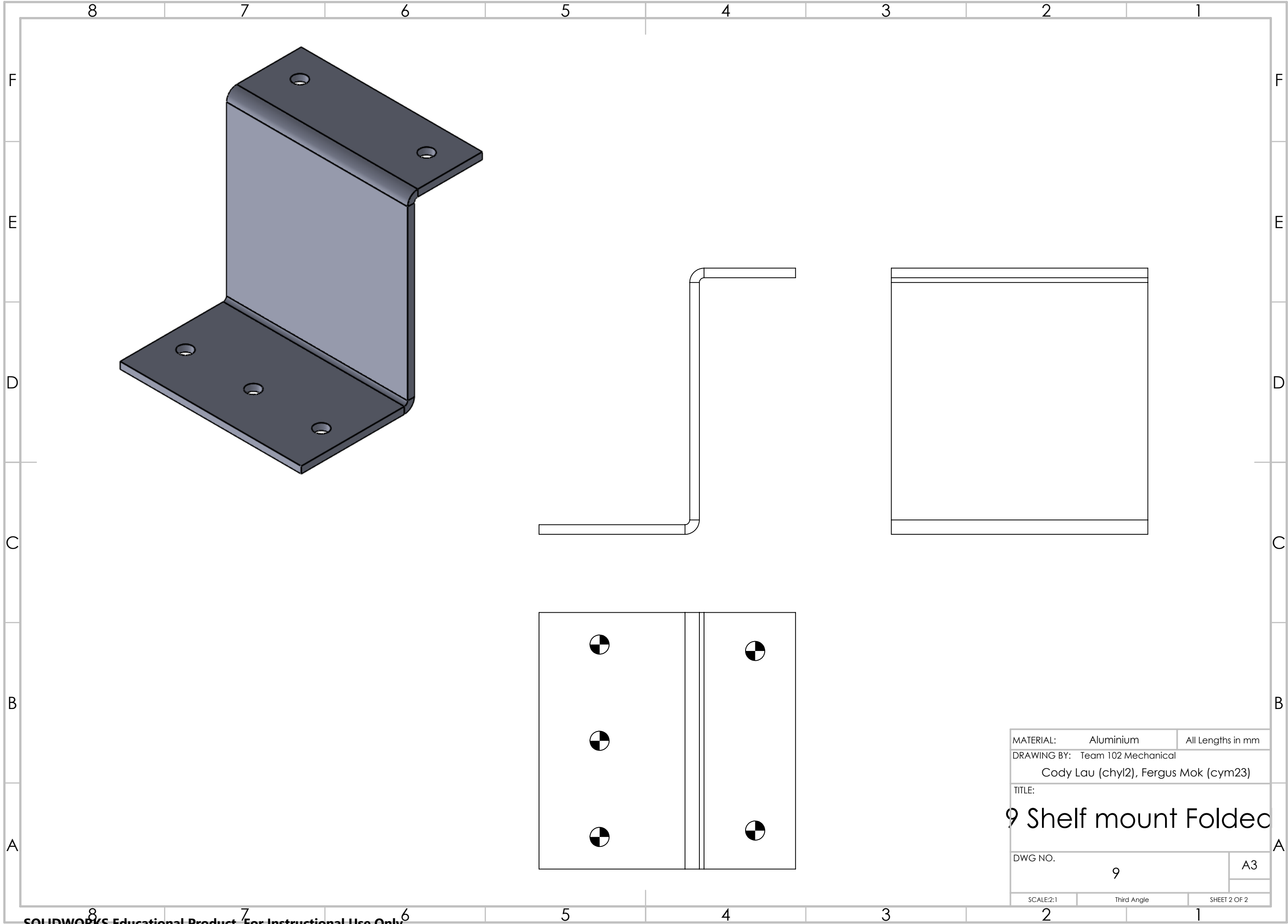
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	6 Motor Mount Small Folded	
DWG NO.	6	A3
SCALE:2:1	Third Angle	SHEET 2 OF 2

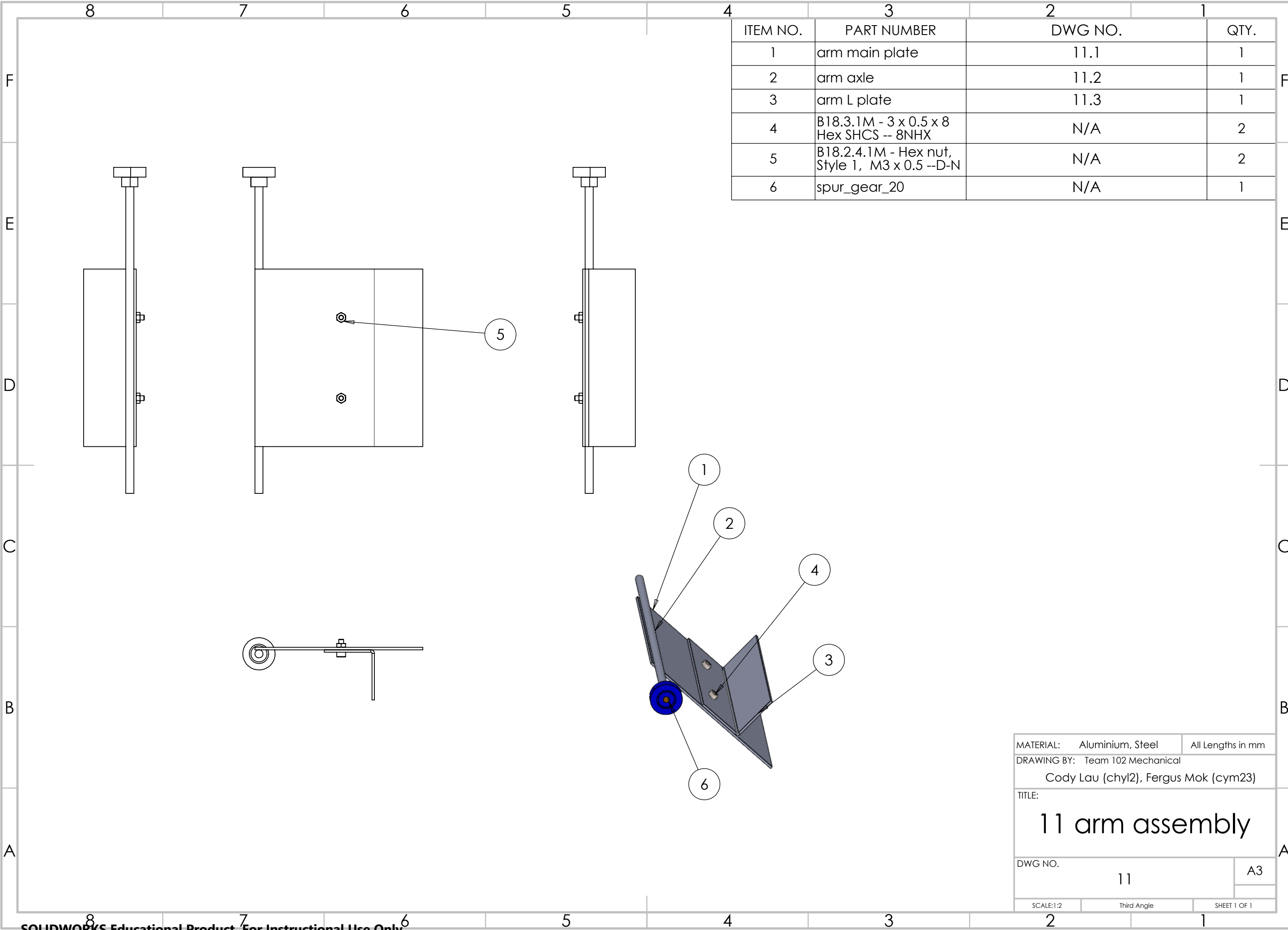




Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	9 Shelf mount Flat Pattern	
DWG NO.	9	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2

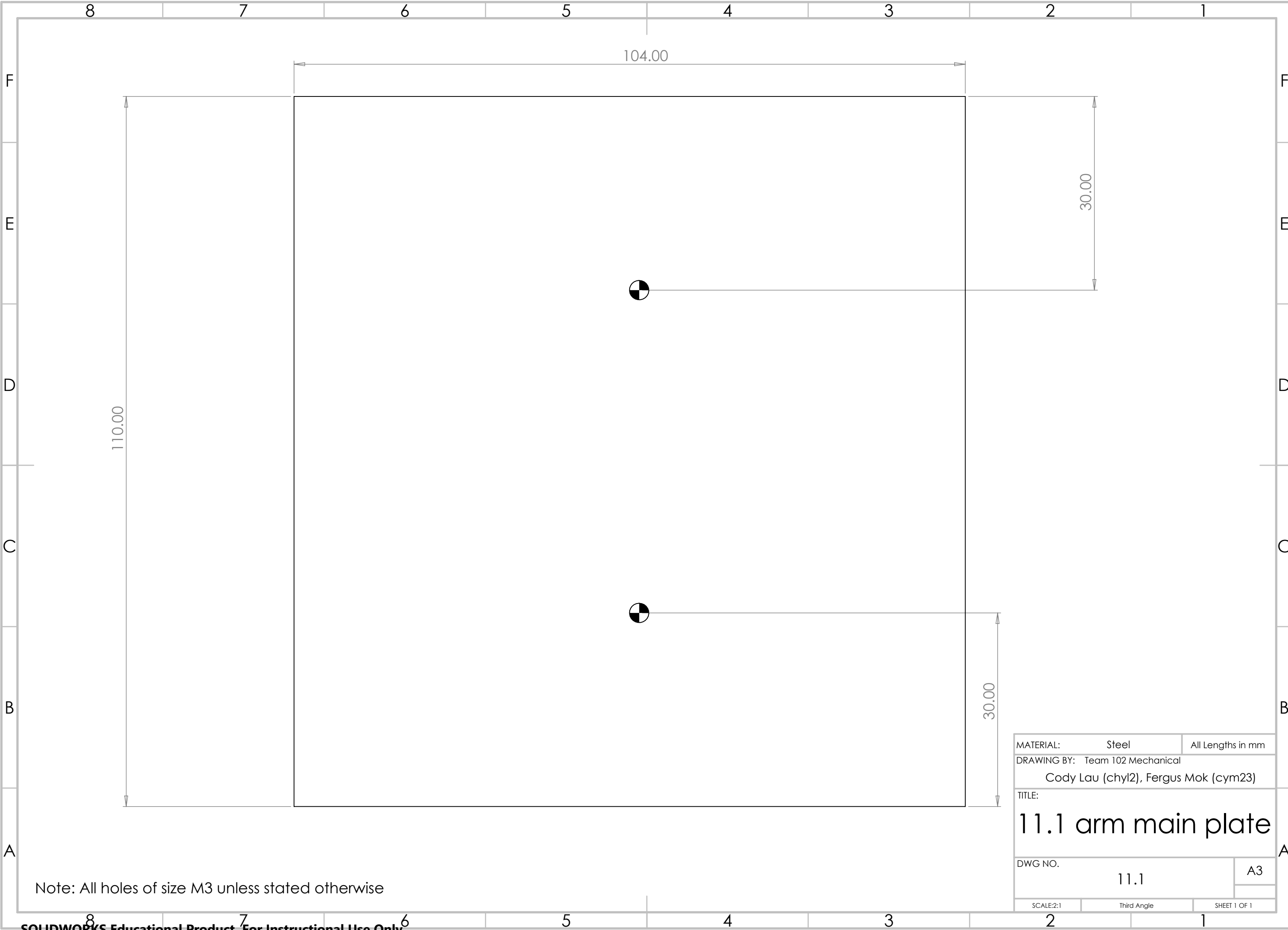




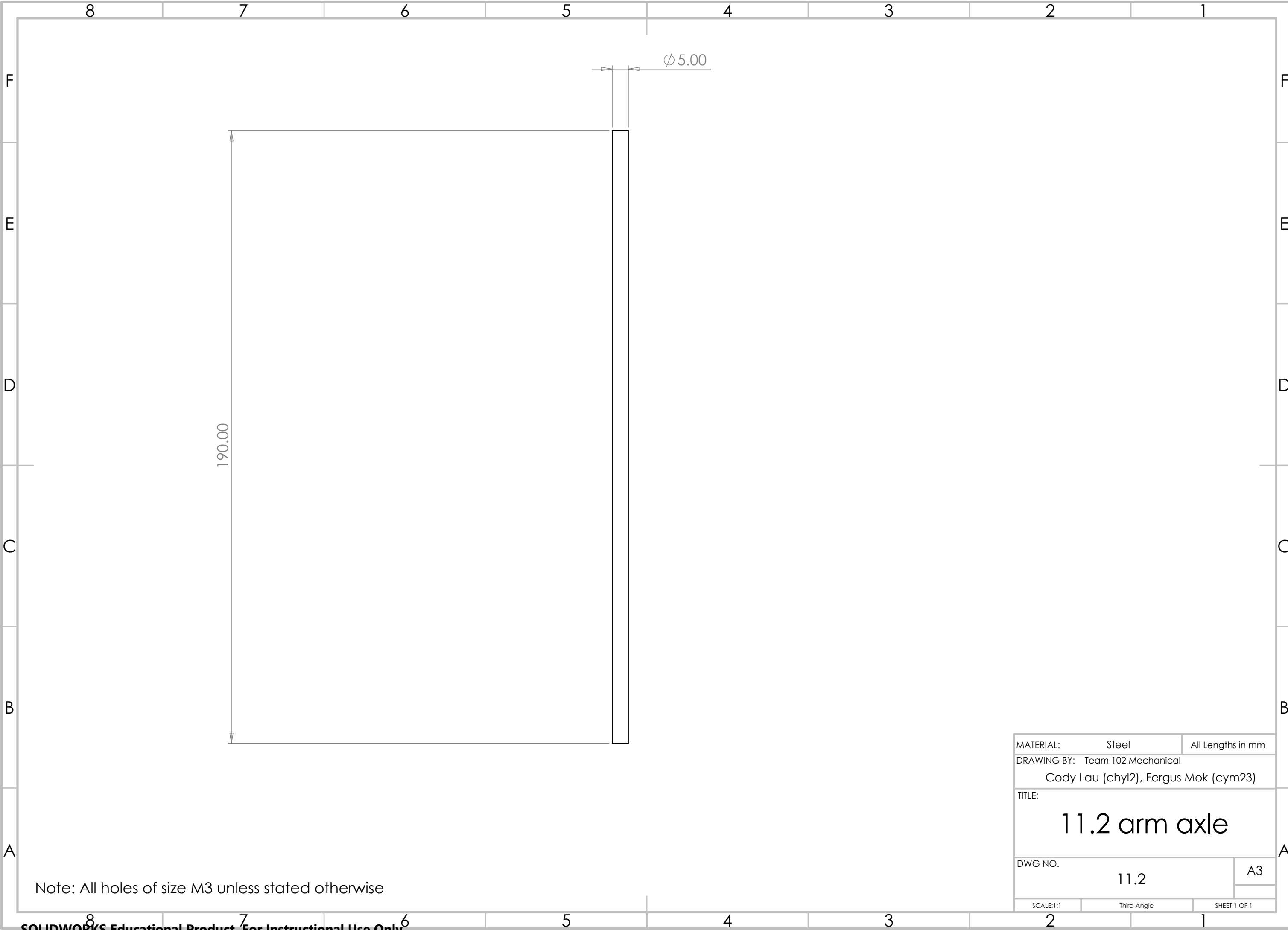
ITEM NO.	PART NUMBER	DWG NO.	QTY.
1	arm main plate	11.1	1
2	arm axle	11.2	1
3	arm L plate	11.3	1
4	B18.3.1M - 3 x 0.5 x 8 Hex SHCS -- 8NHX	N/A	2
5	B18.2.4.1M - Hex nut, Style 1, M3 x 0.5 --D-N	N/A	2
6	spur_gear_20	N/A	1

MATERIAL:	Aluminium, Steel	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	11 arm assembly	
DWG NO.	11	A3
SCALE:1:2	Third Angle	SHEET 1 OF 1



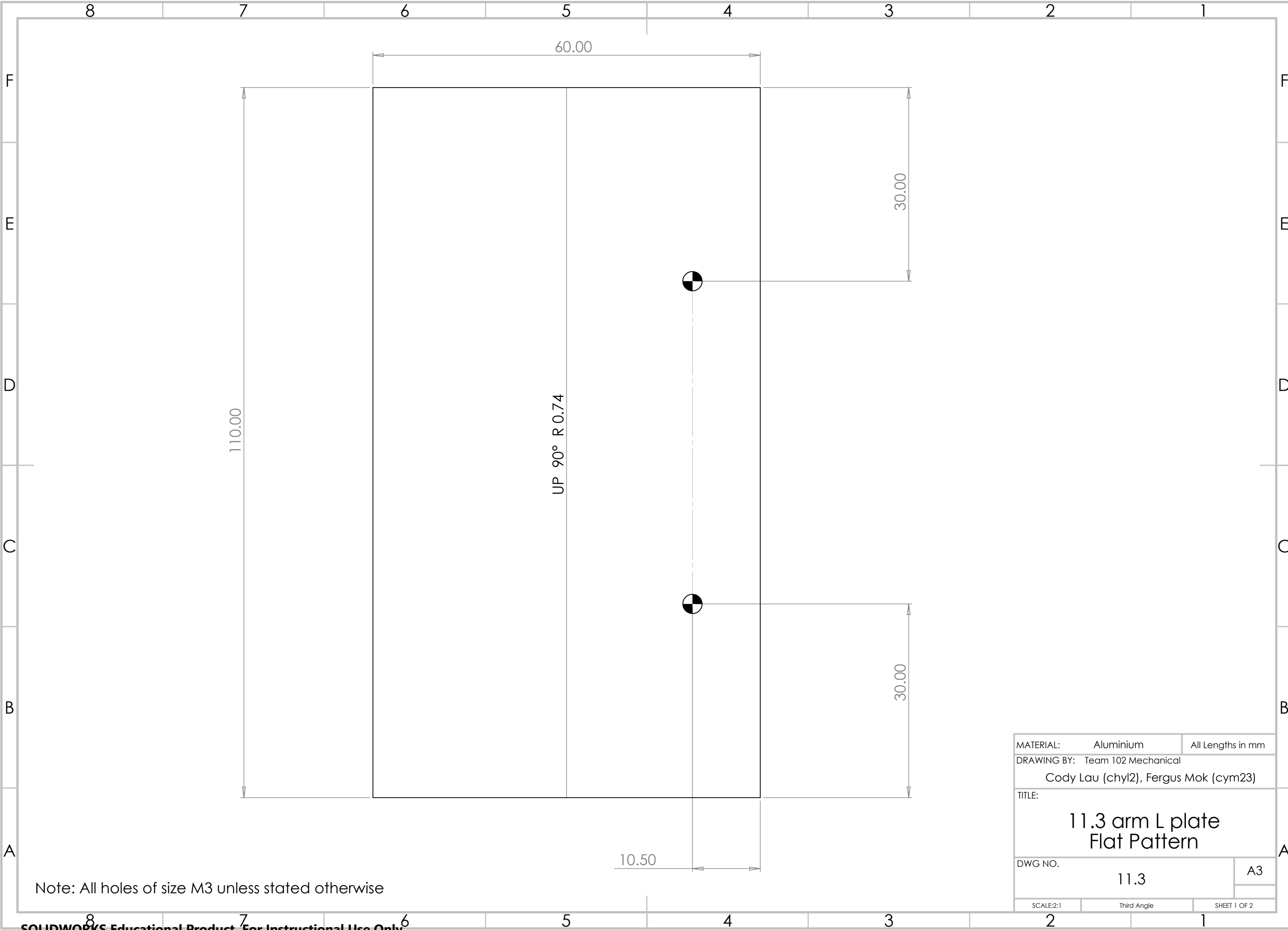


MATERIAL:	Steel	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	11.1 arm main plate	
DWG NO.	11.1	A3
SCALE:2:1	Third Angle	SHEET 1 OF 1



MATERIAL:	Steel	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	11.2 arm axle	
DWG NO.	11.2	A3
SCALE:1:1	Third Angle	SHEET 1 OF 1

Note: All holes of size M3 unless stated otherwise



8 7 6 5 4 3 2 1

F

E

D

C

B

A

F

E

D

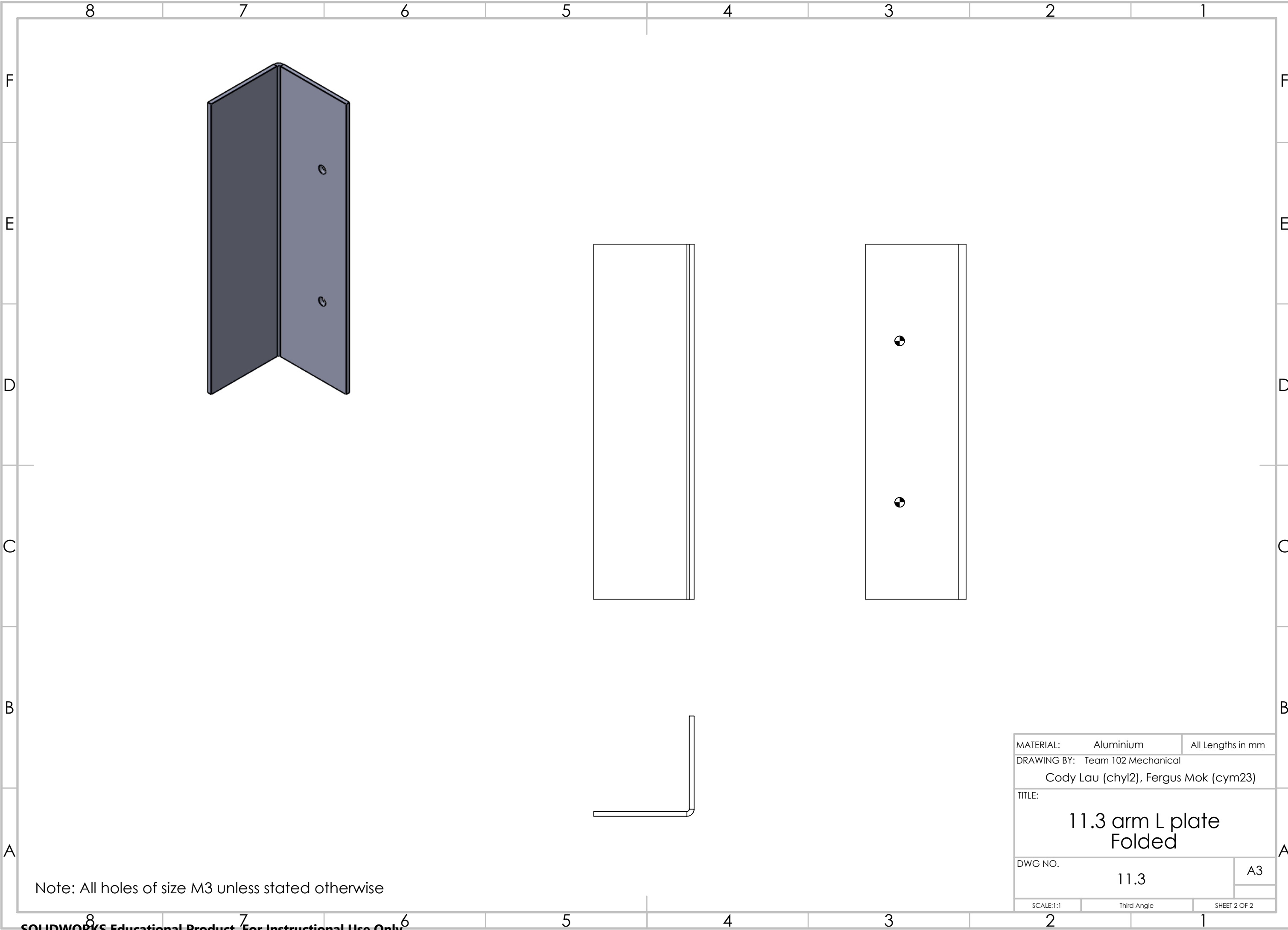
C

B

A

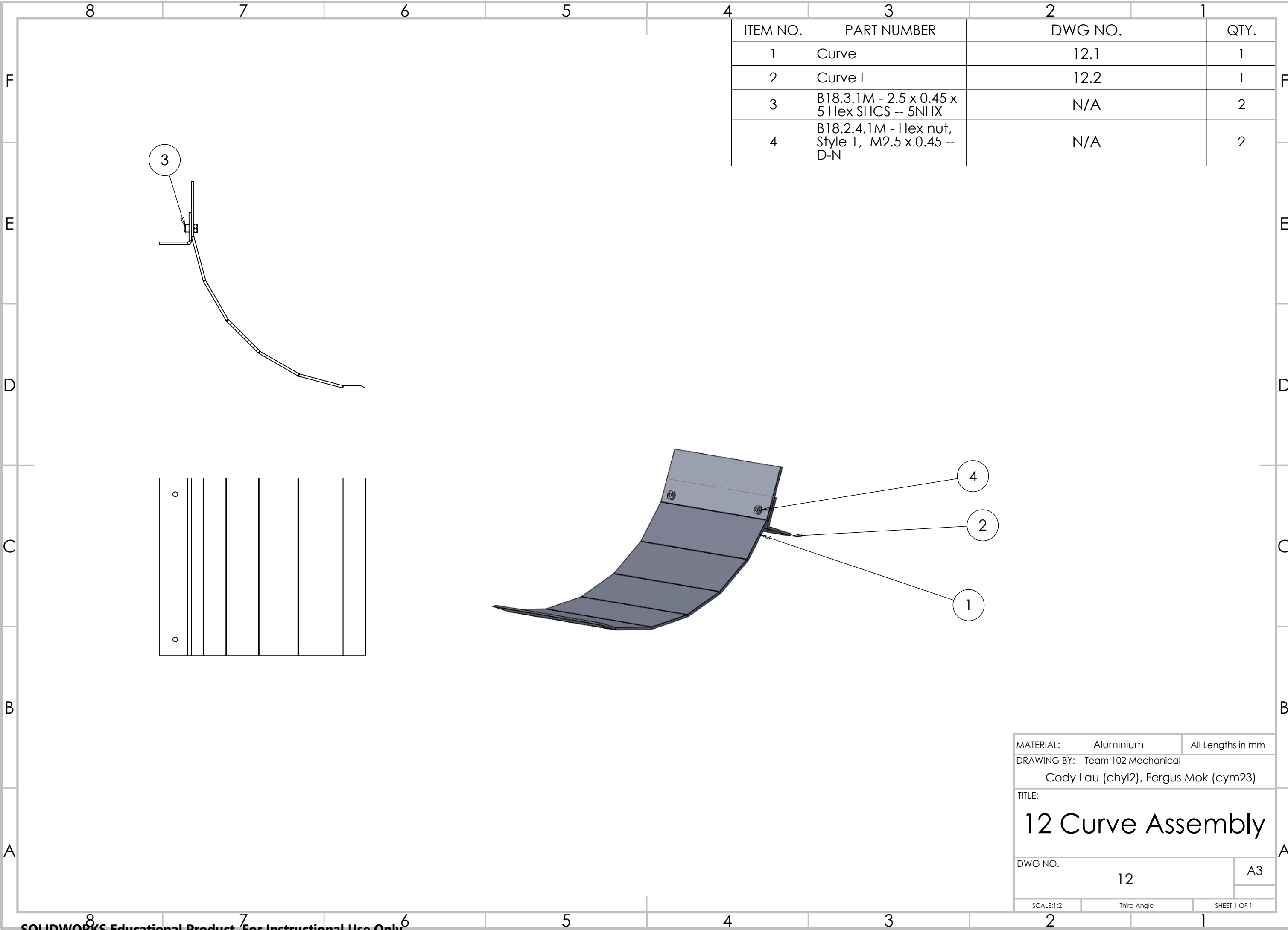
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	11.3 arm L plate Flat Pattern	
DWG NO.	11.3	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2

Note: All holes of size M3 unless stated otherwise



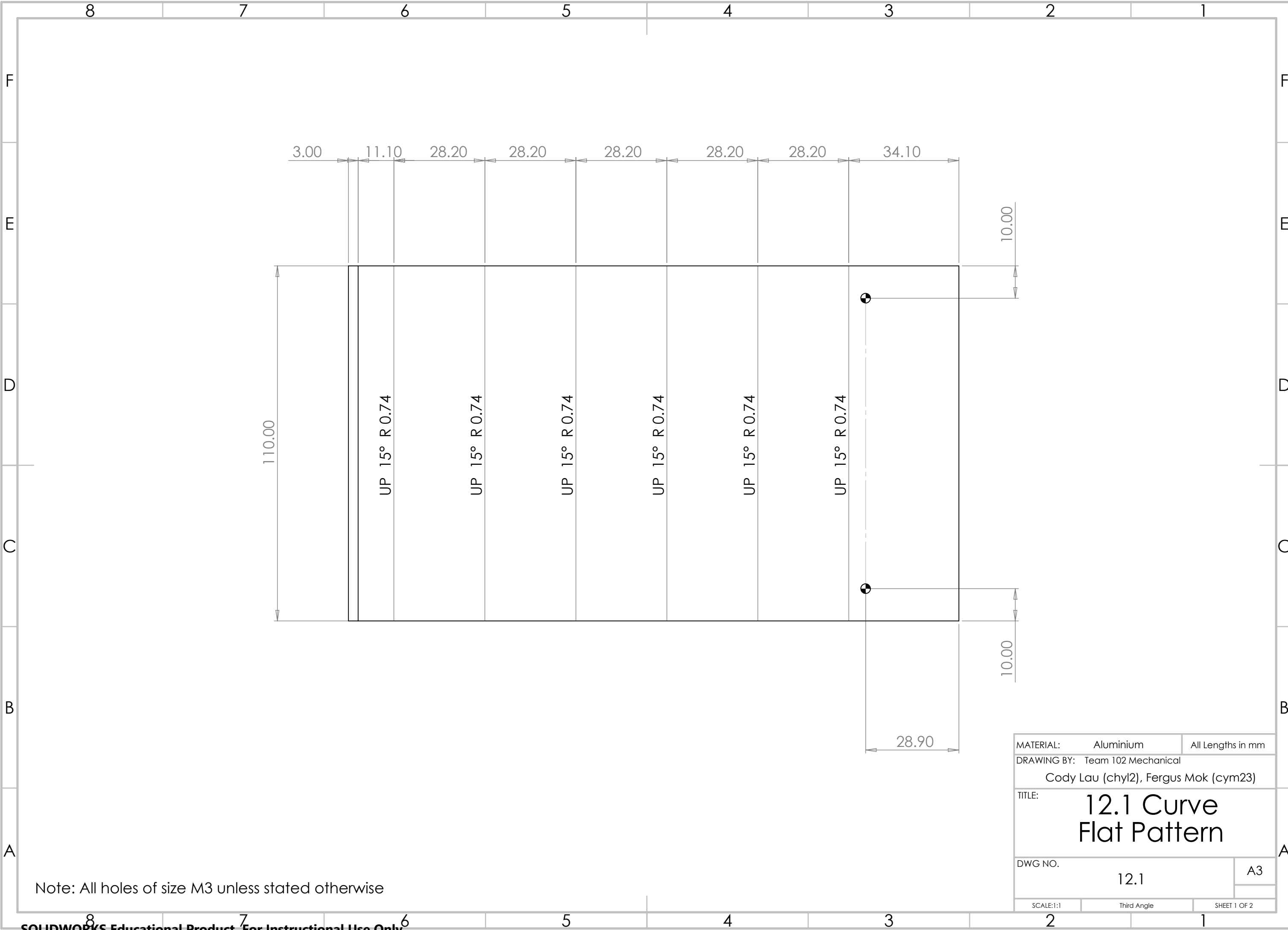
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	11.3 arm L plate Folded	
DWG NO.	11.3	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



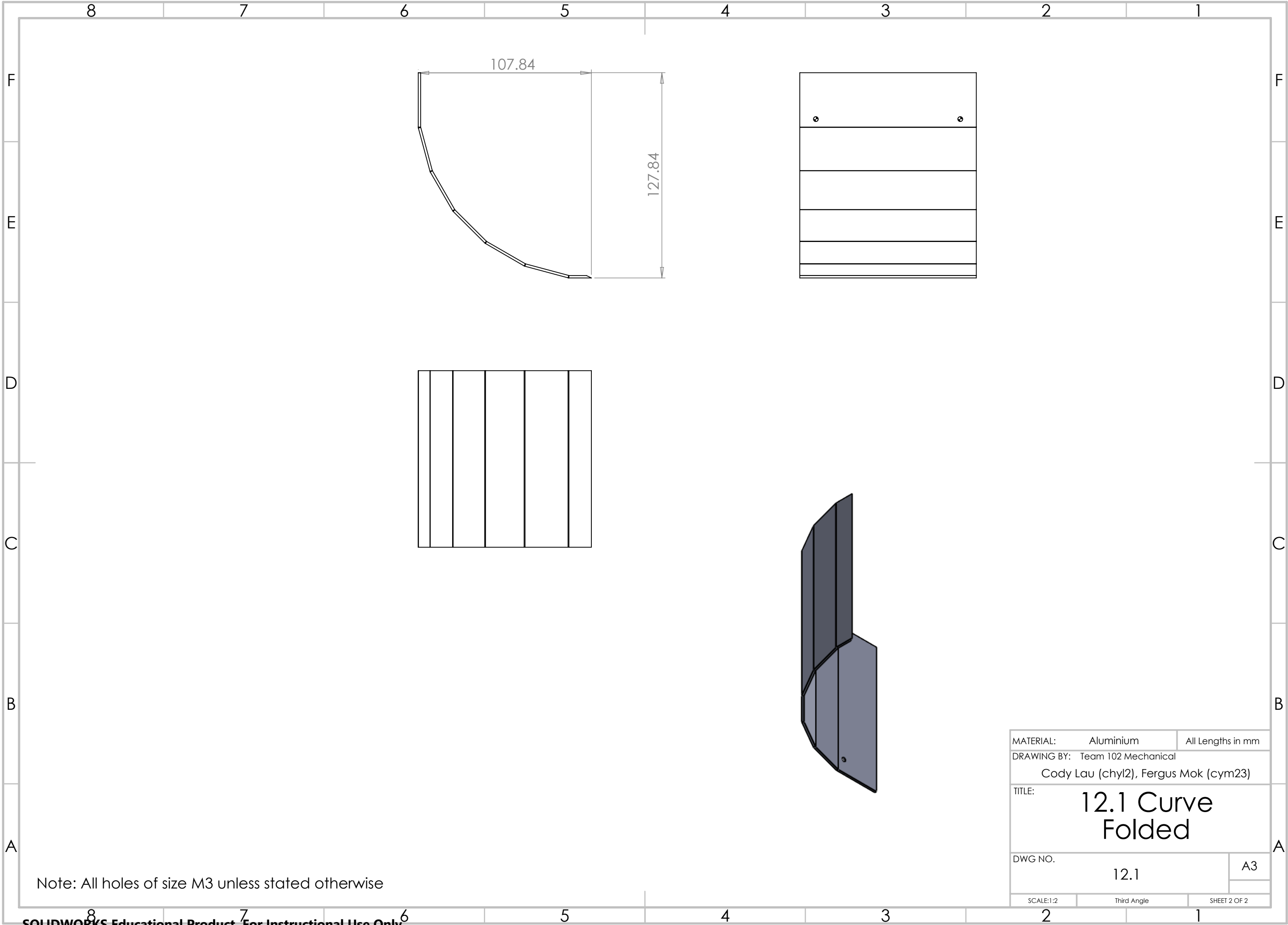
ITEM NO.	PART NUMBER	DWG NO.	QTY.
1	Curve	12.1	1
2	Curve L	12.2	1
3	B18.3.1M - 2.5 x 0.45 x 5 Hex SHCS -- 5NHX	N/A	2
4	B18.2.4.1M - Hex nut, Style 1, M2.5 x 0.45 -- D-N	N/A	2

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	12 Curve Assembly	
DWG NO.	12	A3
SCALE:1:2	Third Angle	SHEET 1 OF 1



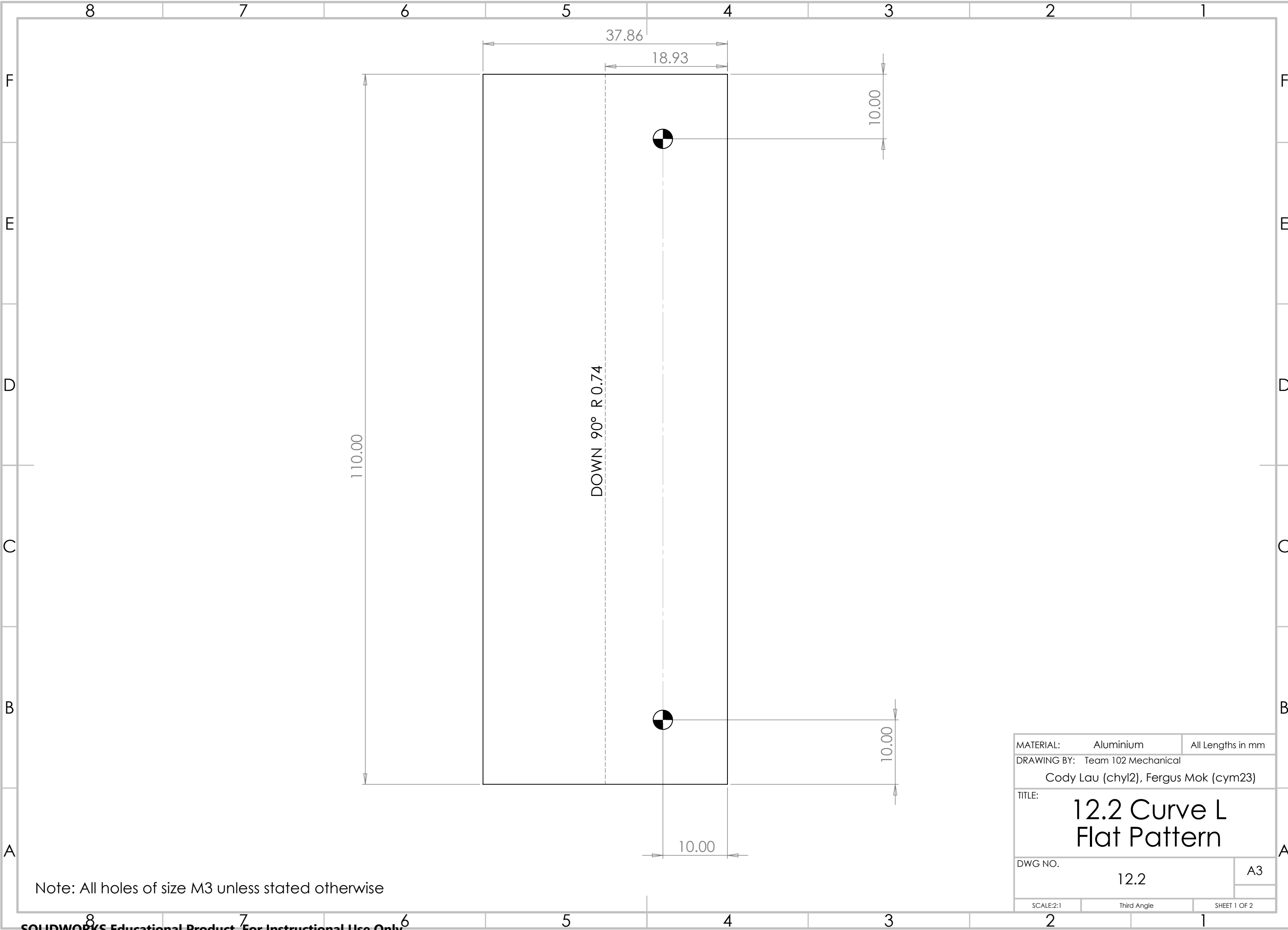
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	12.1 Curve Flat Pattern	
DWG NO.	12.1	A3
SCALE:1:1	Third Angle	SHEET 1 OF 2



Note: All holes of size M3 unless stated otherwise

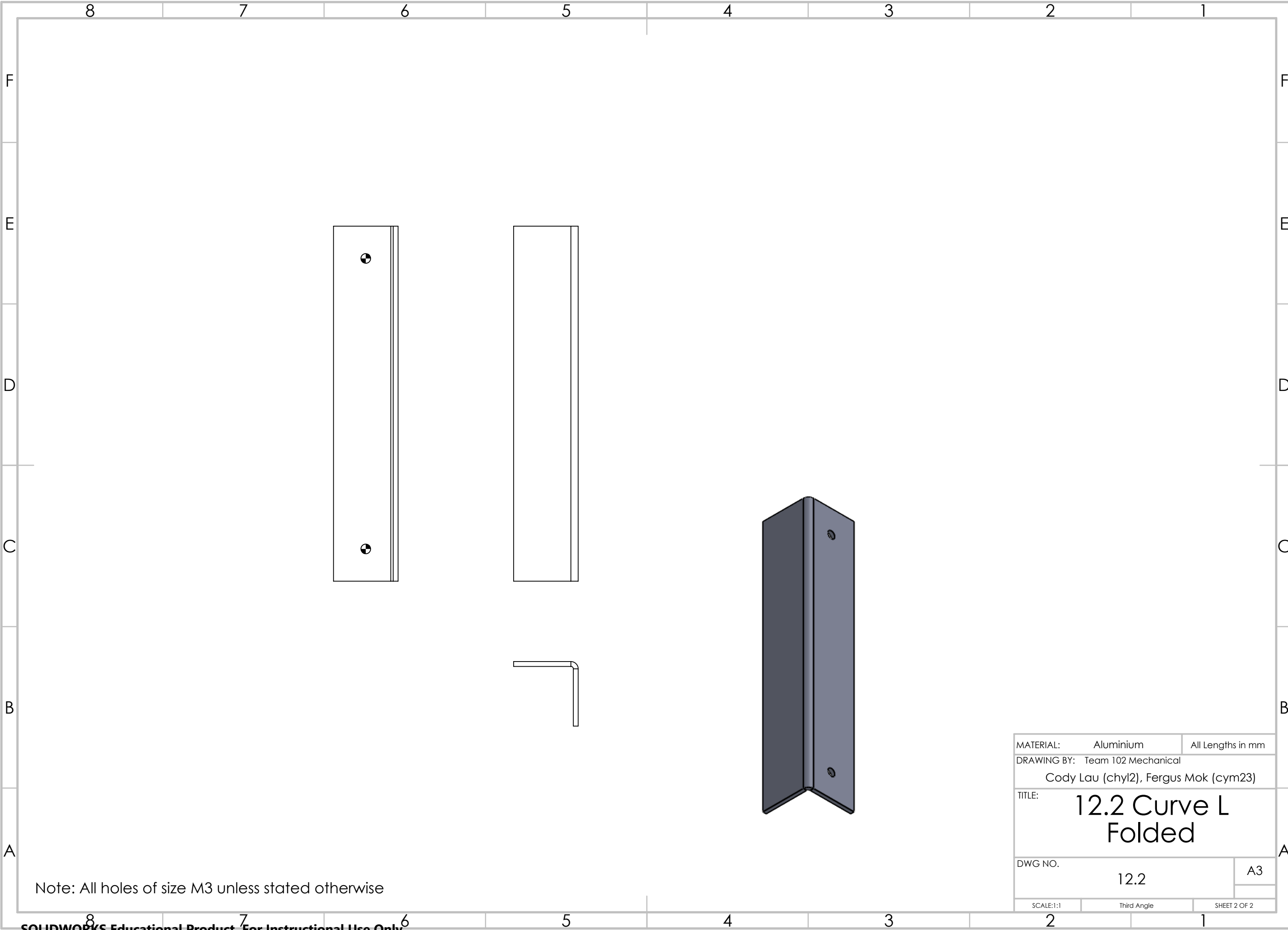
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	12.1 Curve Folded	
DWG NO.	12.1	A3
SCALE:1:2	Third Angle	SHEET 2 OF 2



Note: All holes of size M3 unless stated otherwise

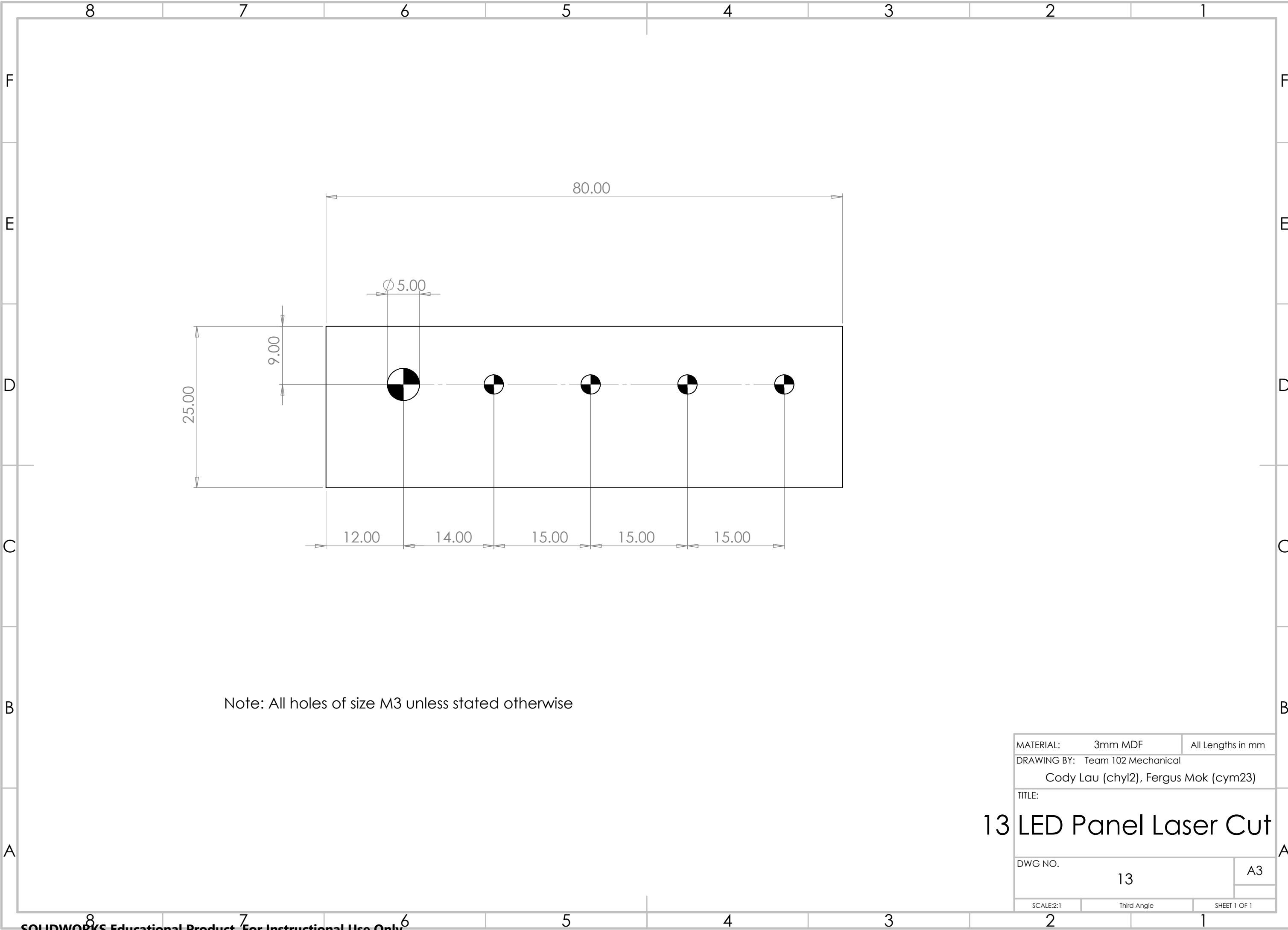
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	12.2 Curve L Flat Pattern	
DWG NO.	12.2	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2





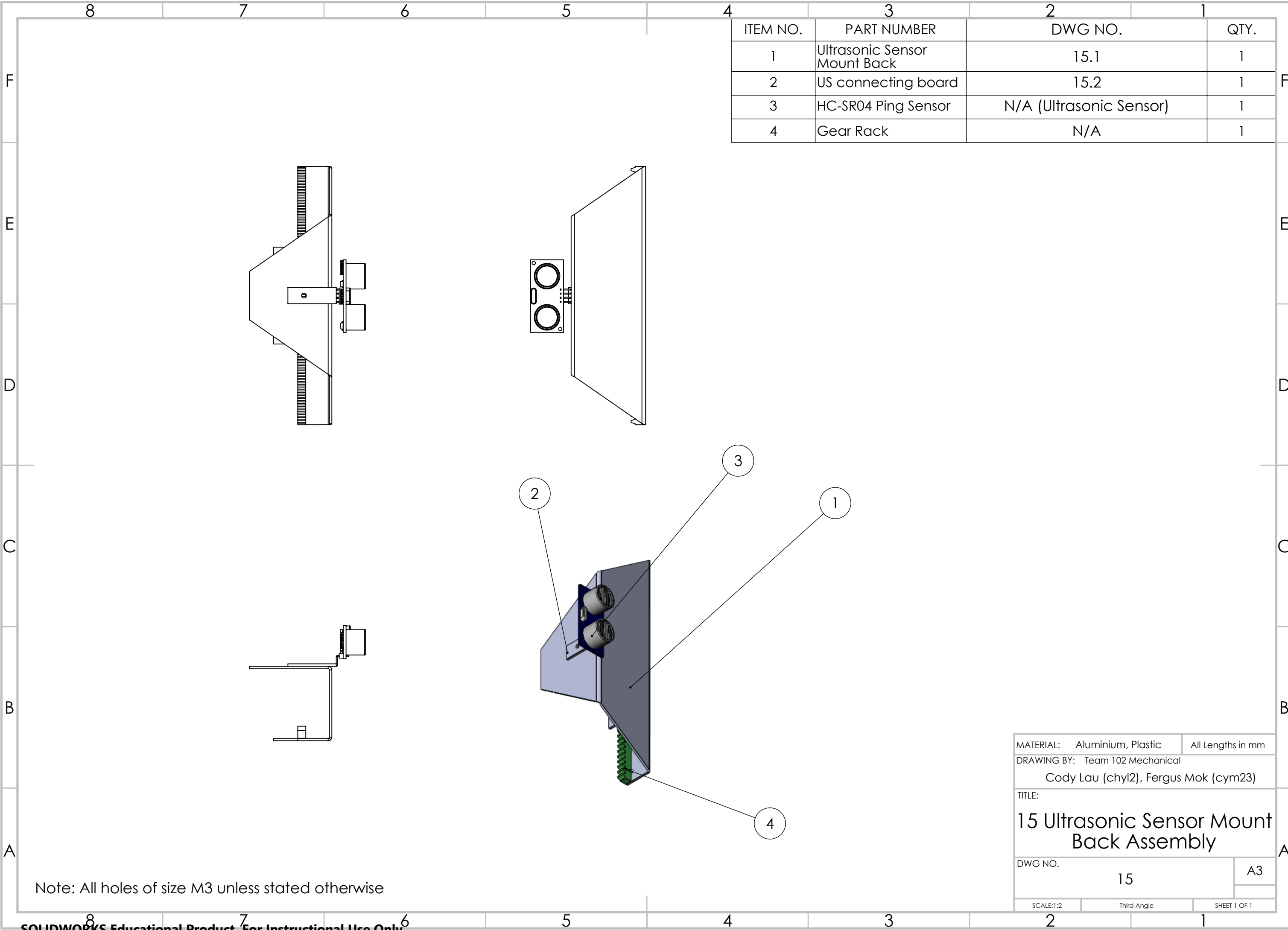
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	12.2 Curve L Folded	
DWG NO.	12.2	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



Note: All holes of size M3 unless stated otherwise

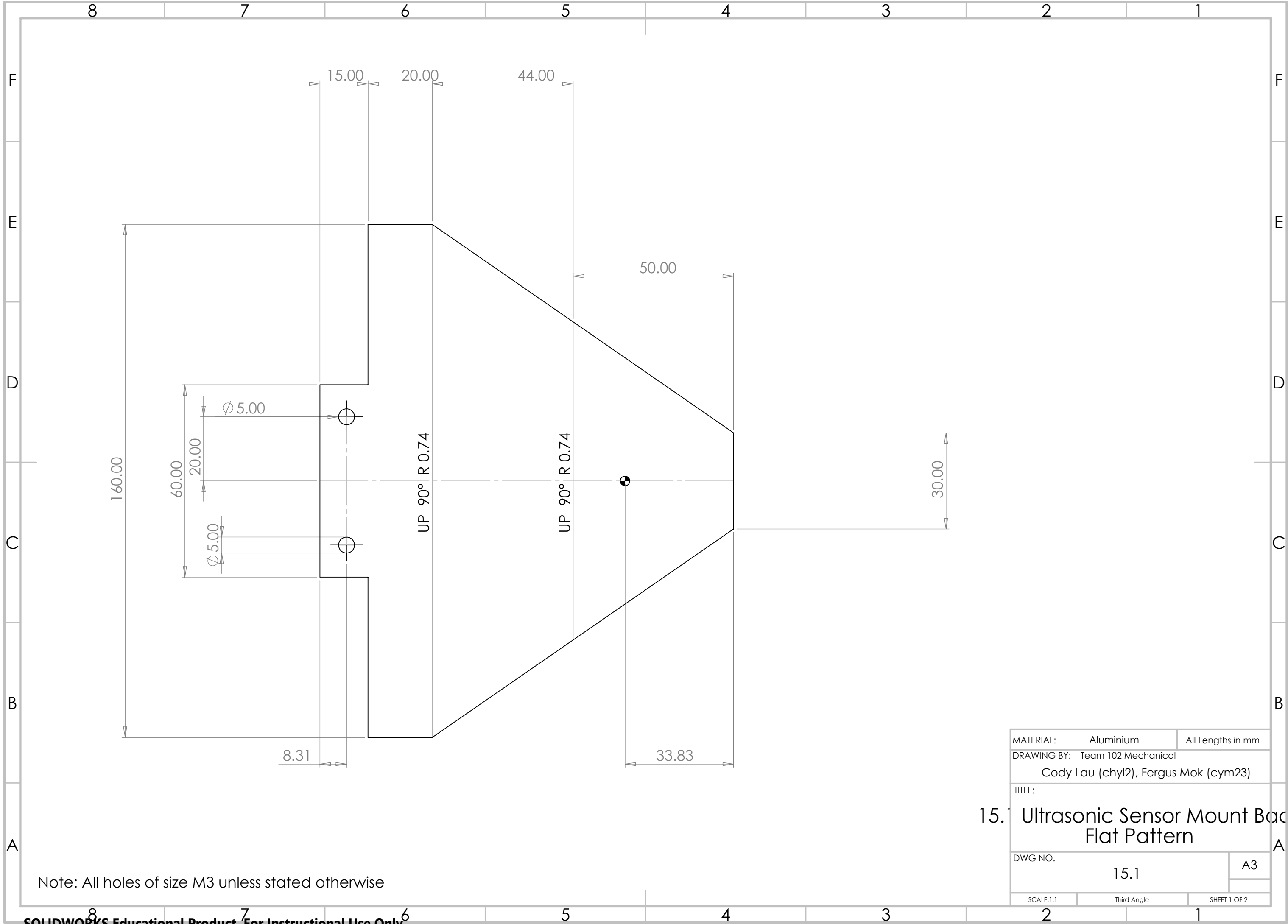
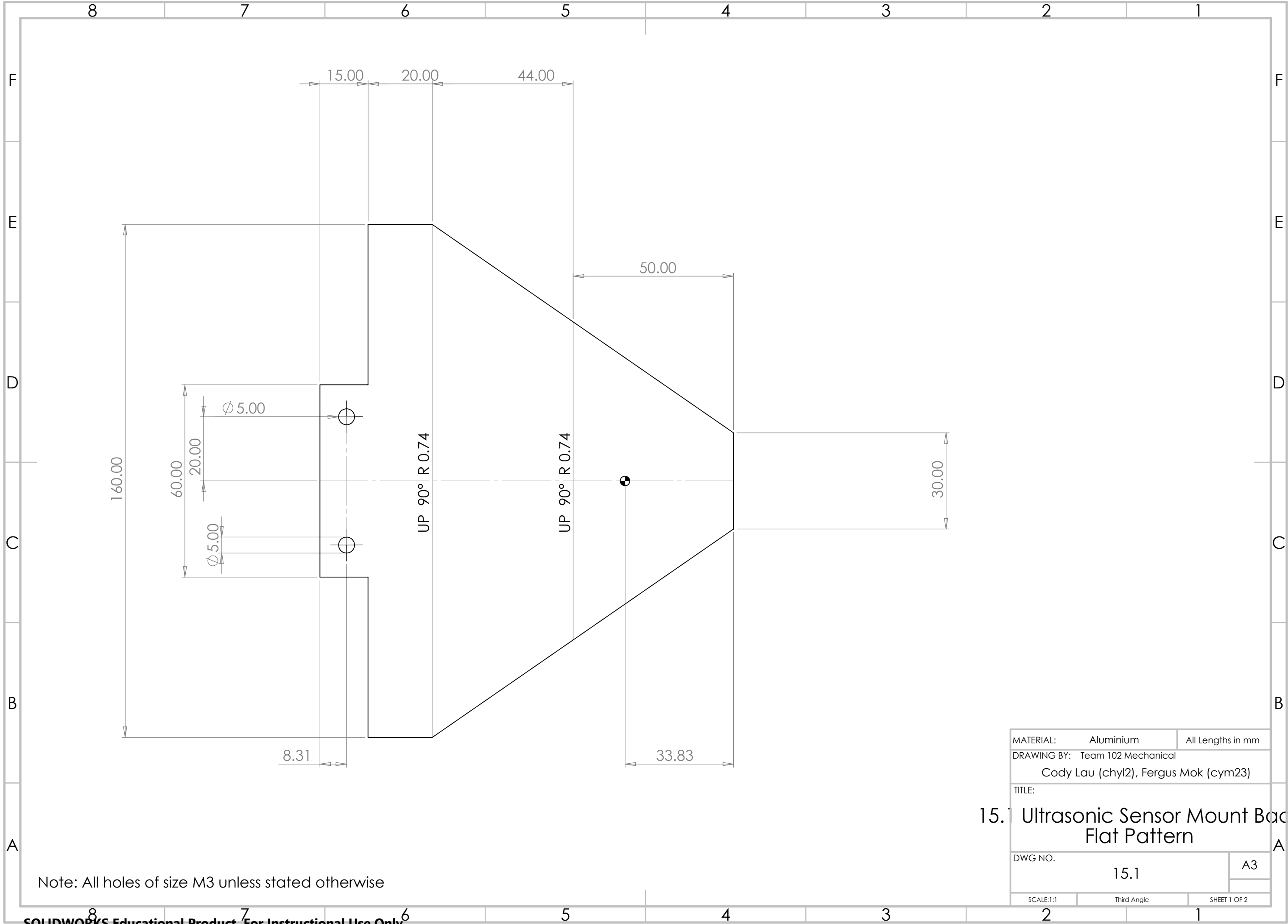
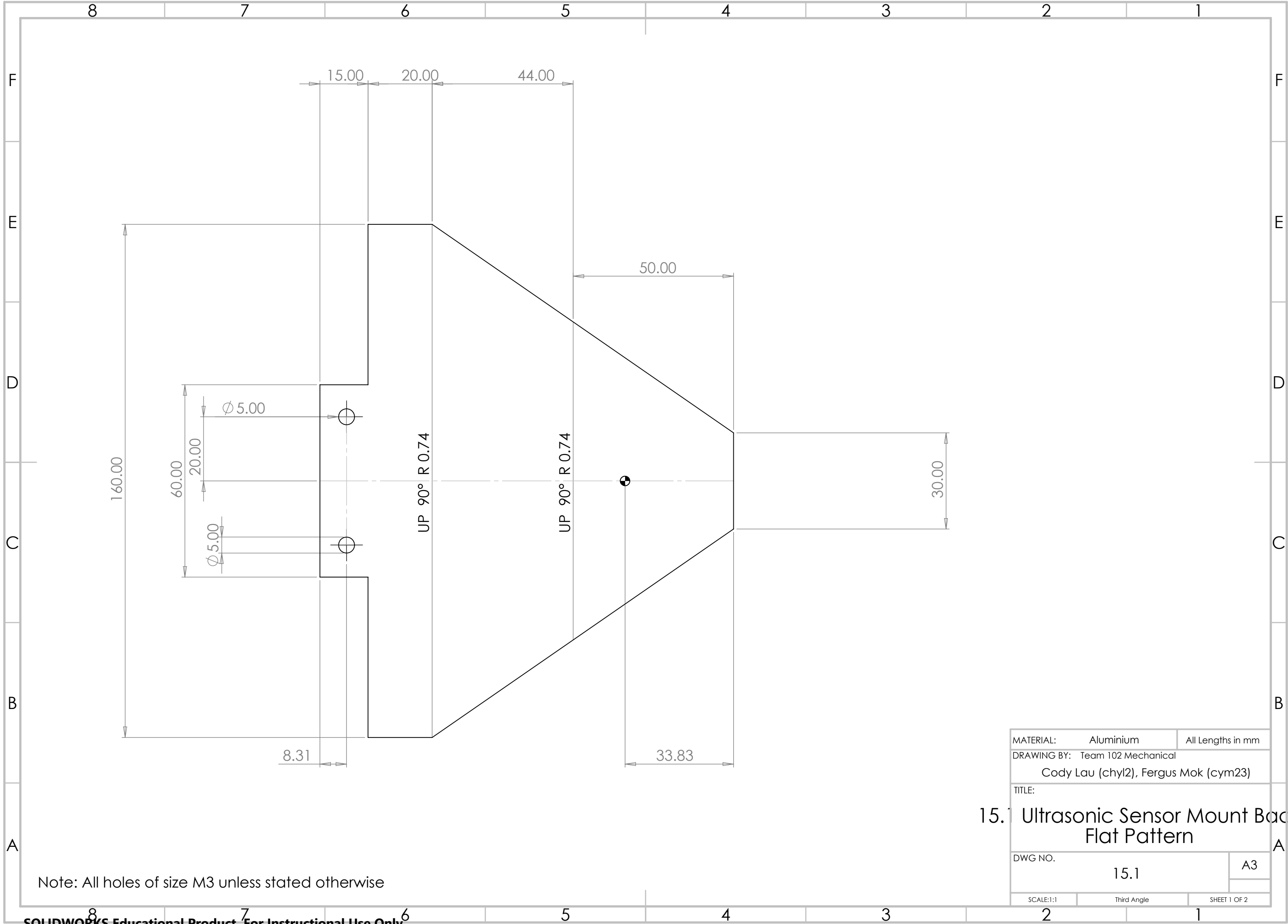
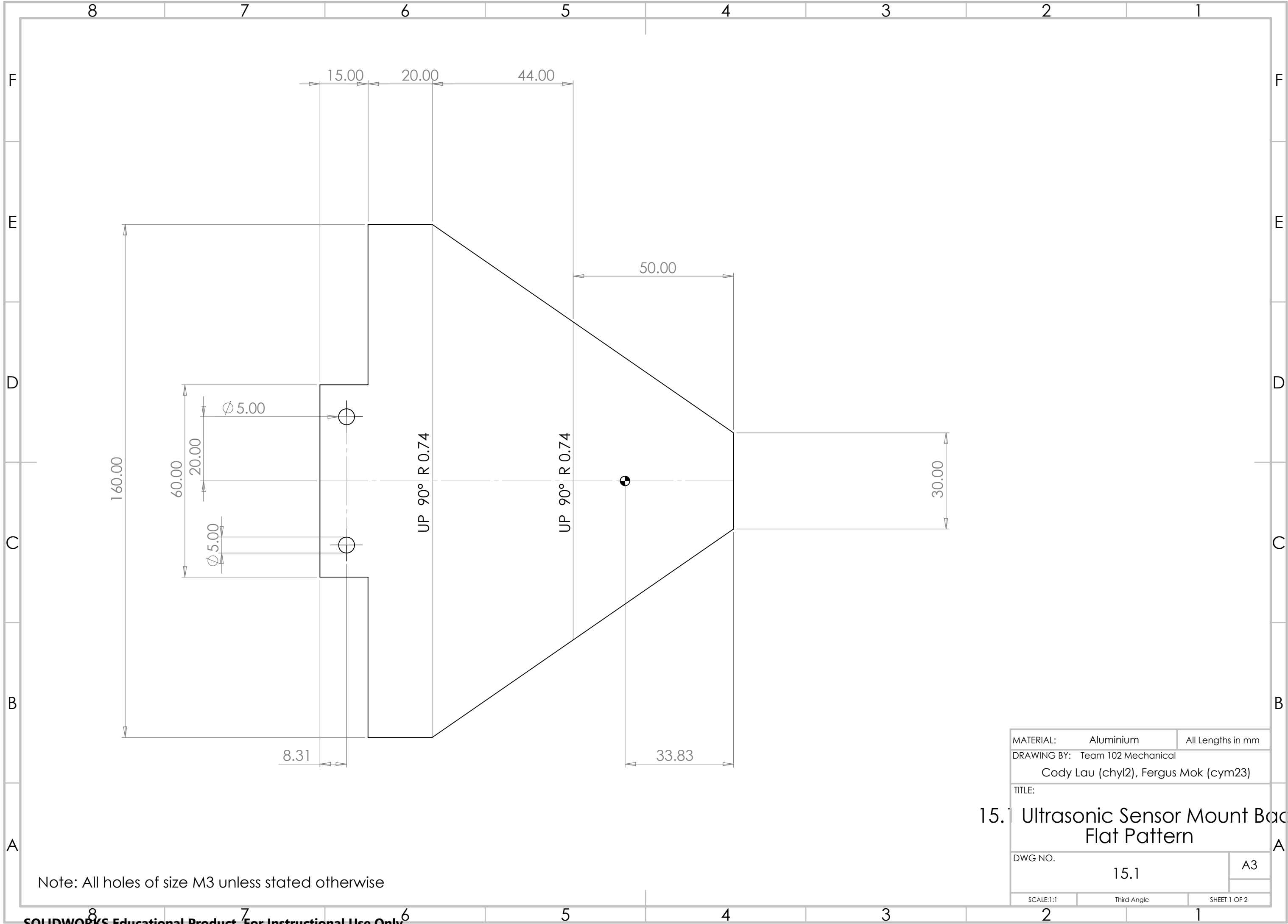
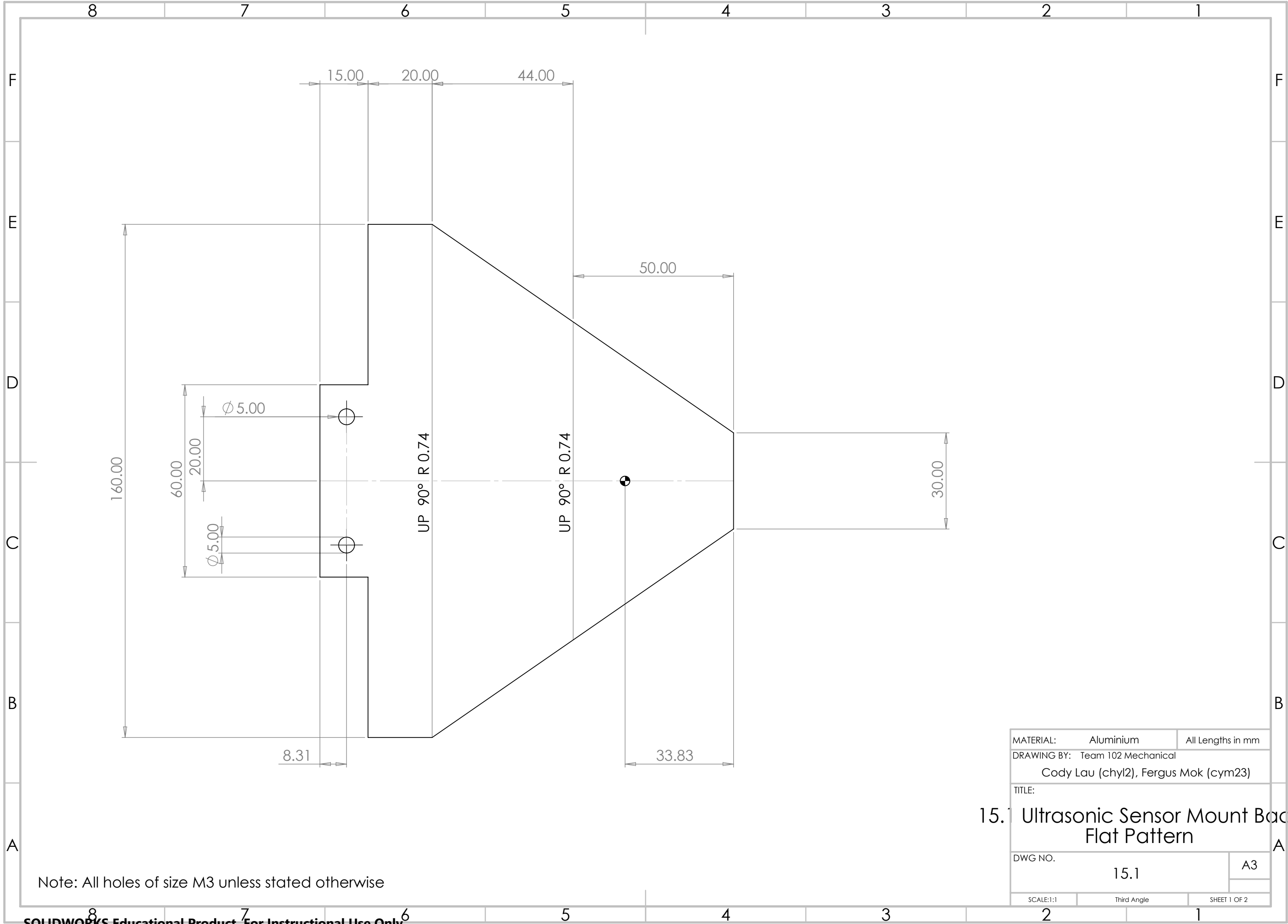
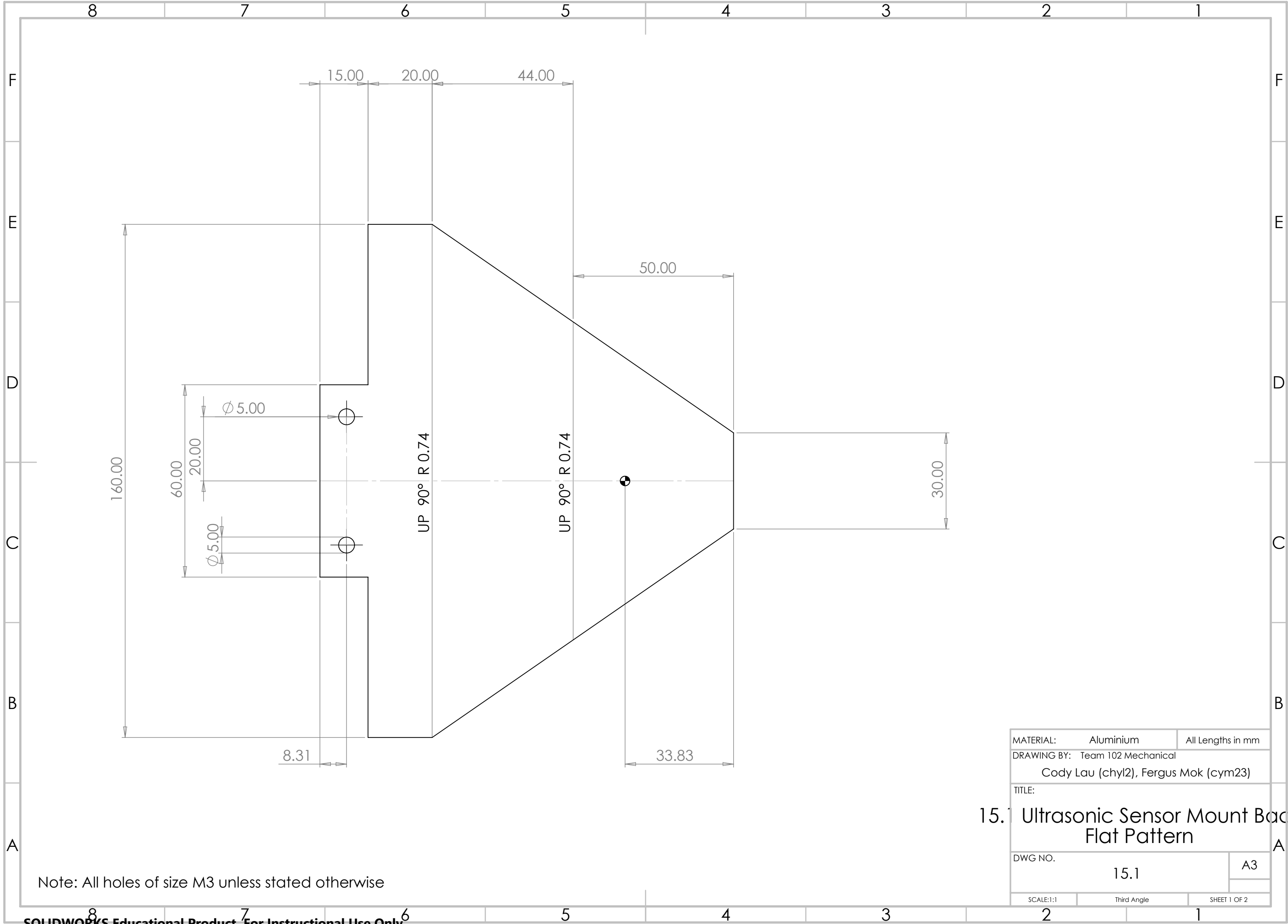
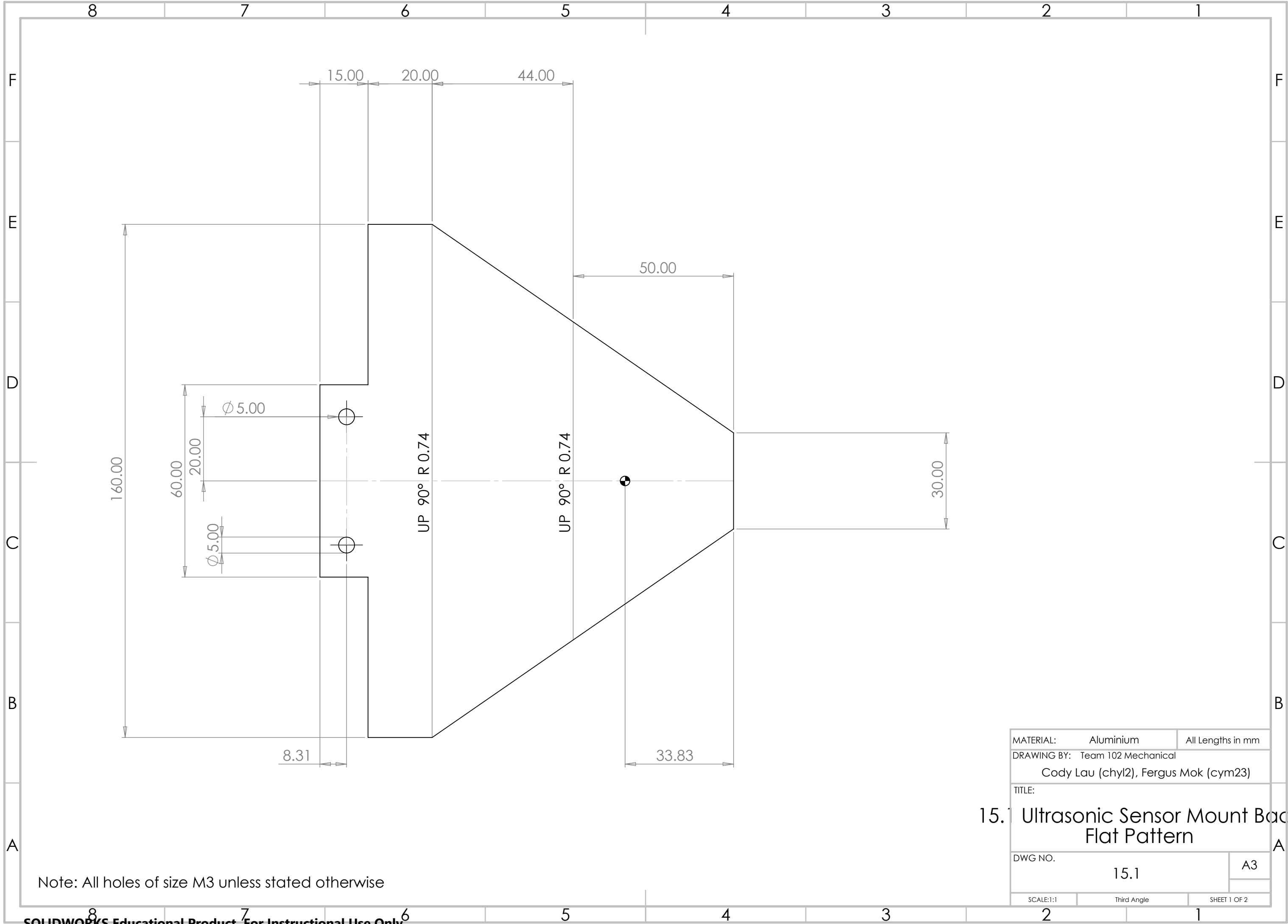
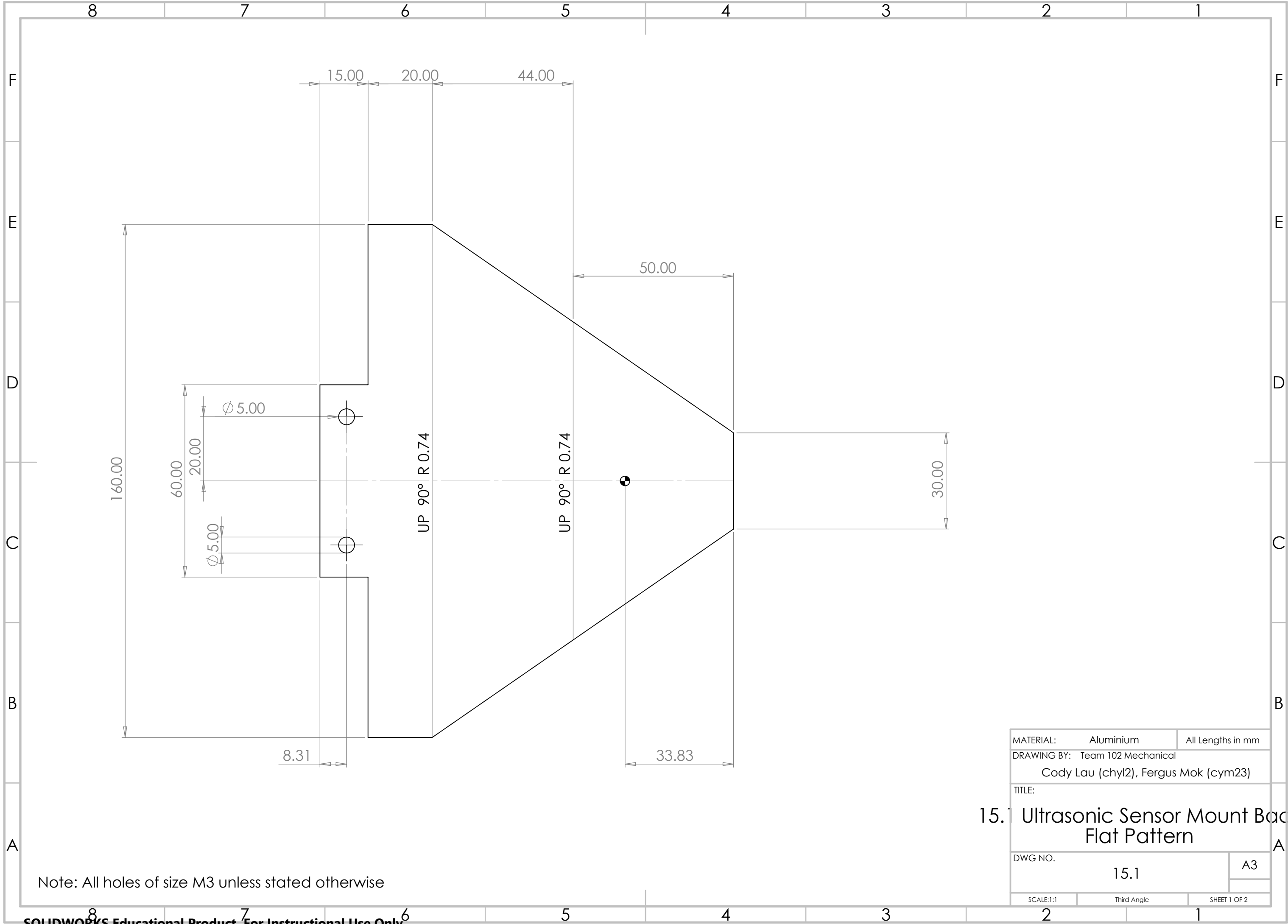
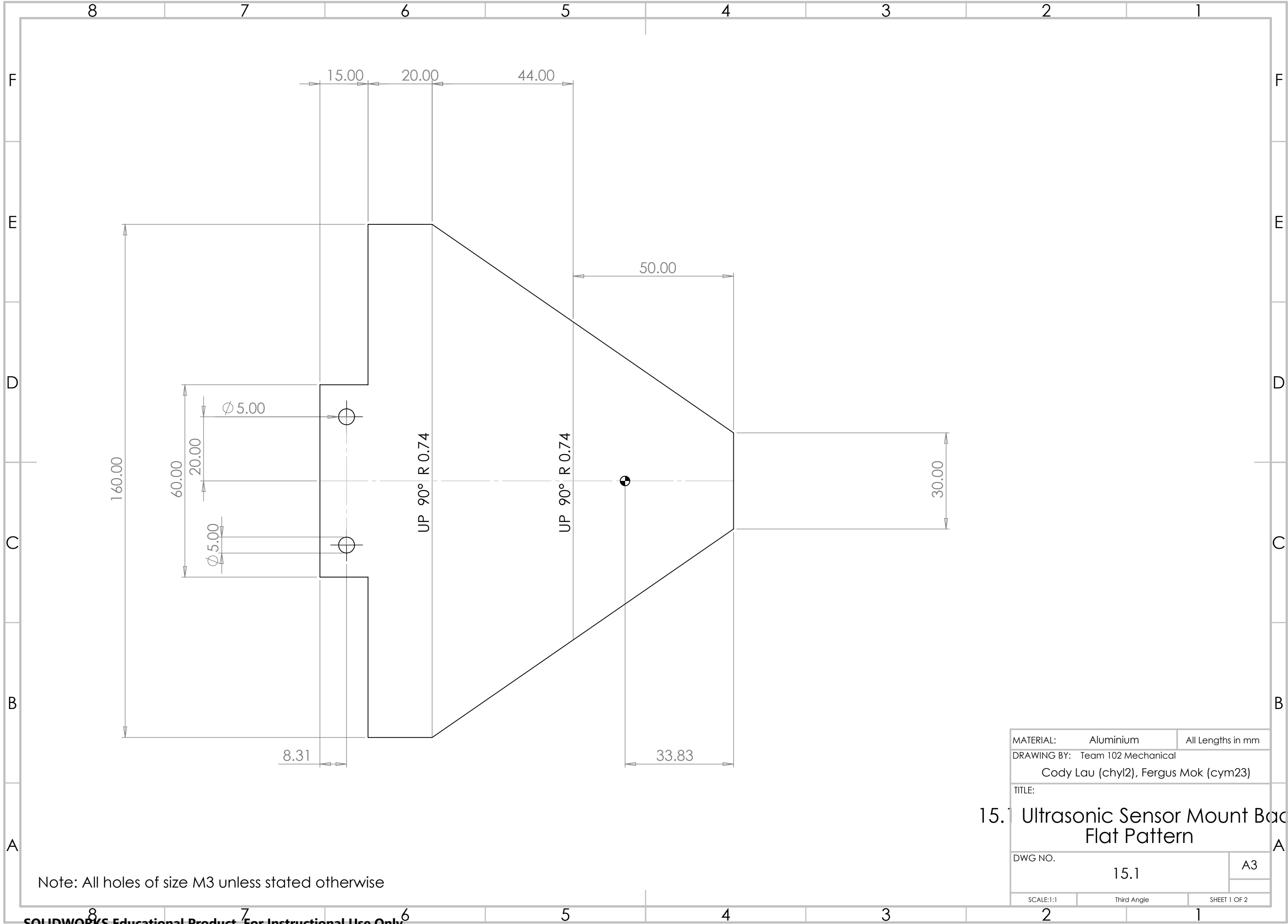
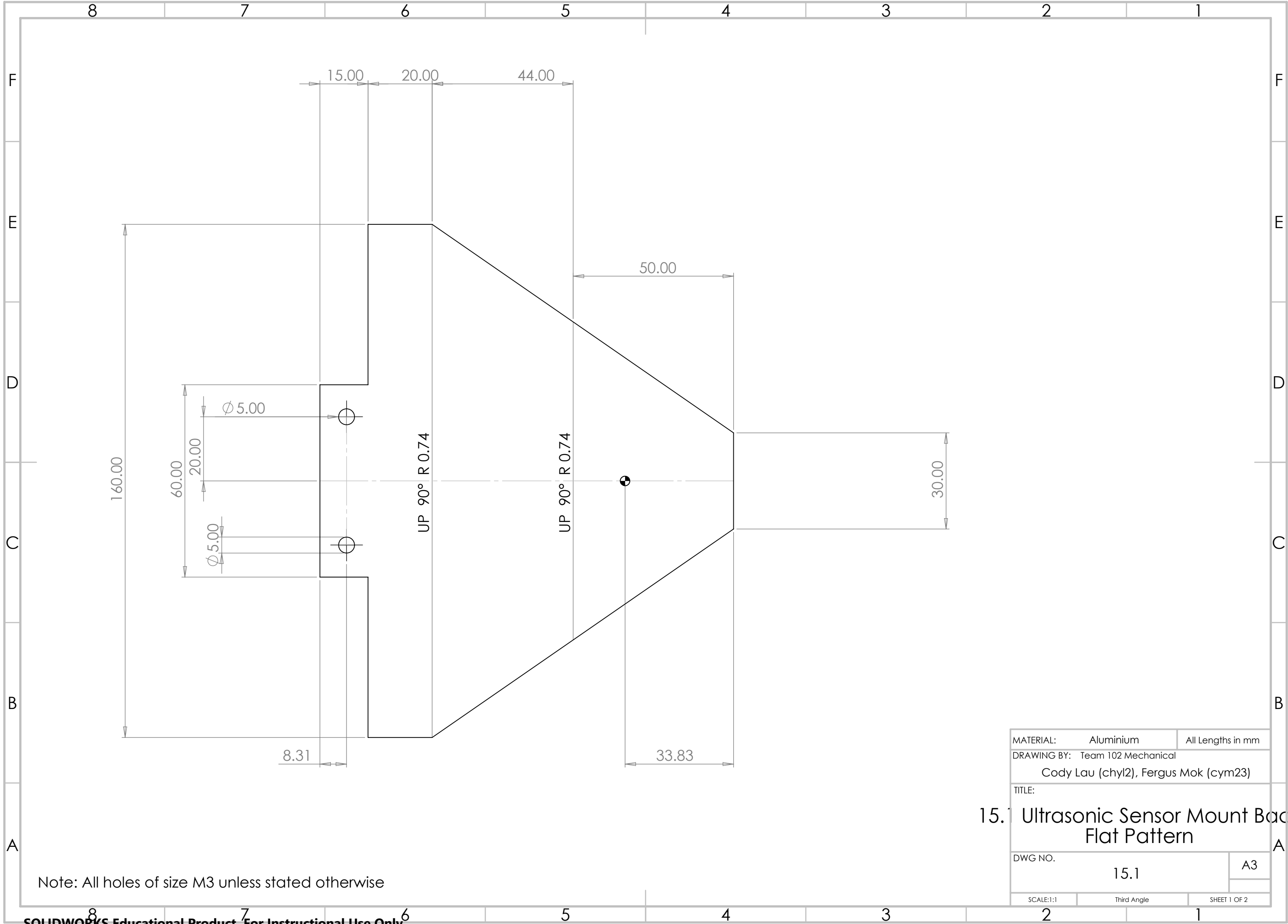
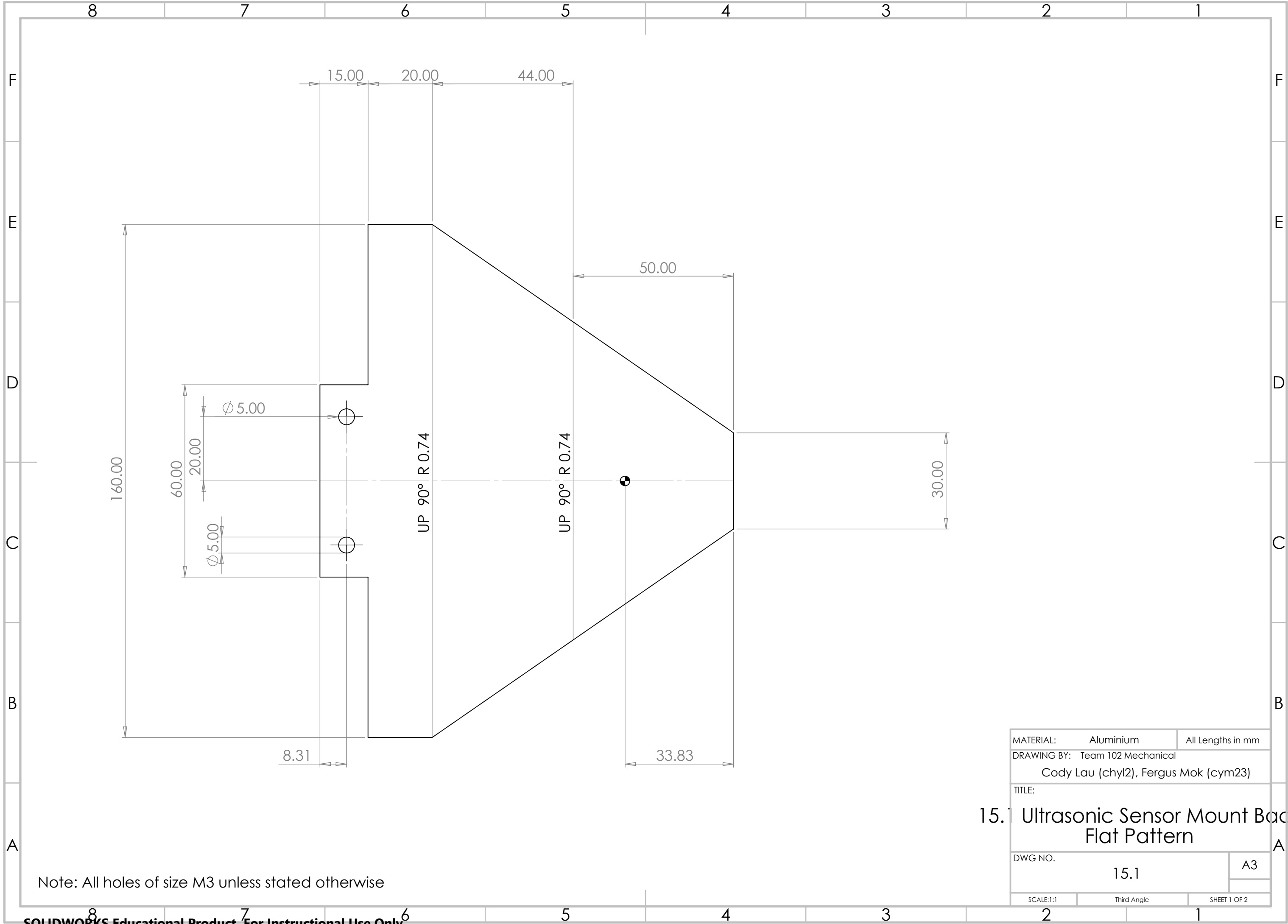
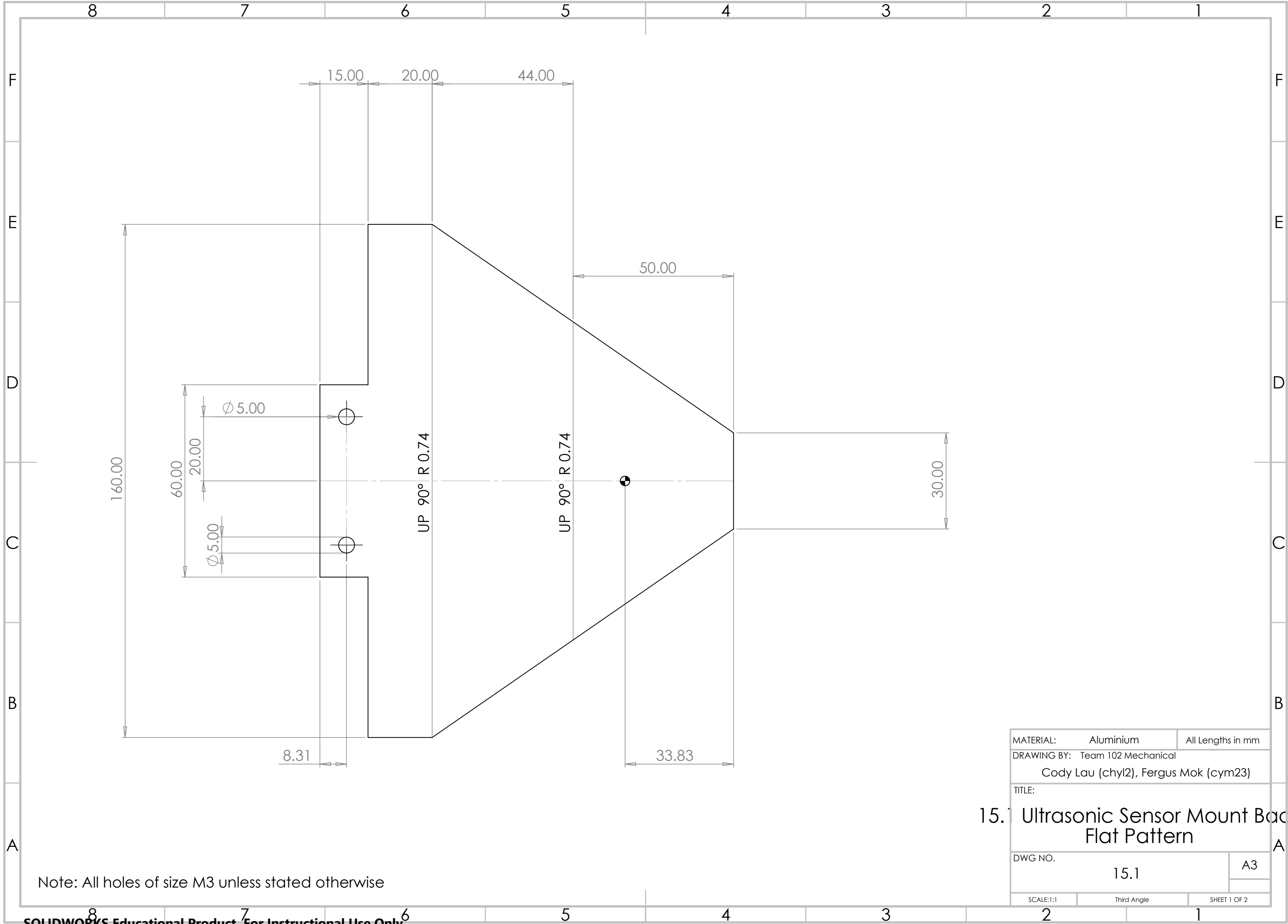
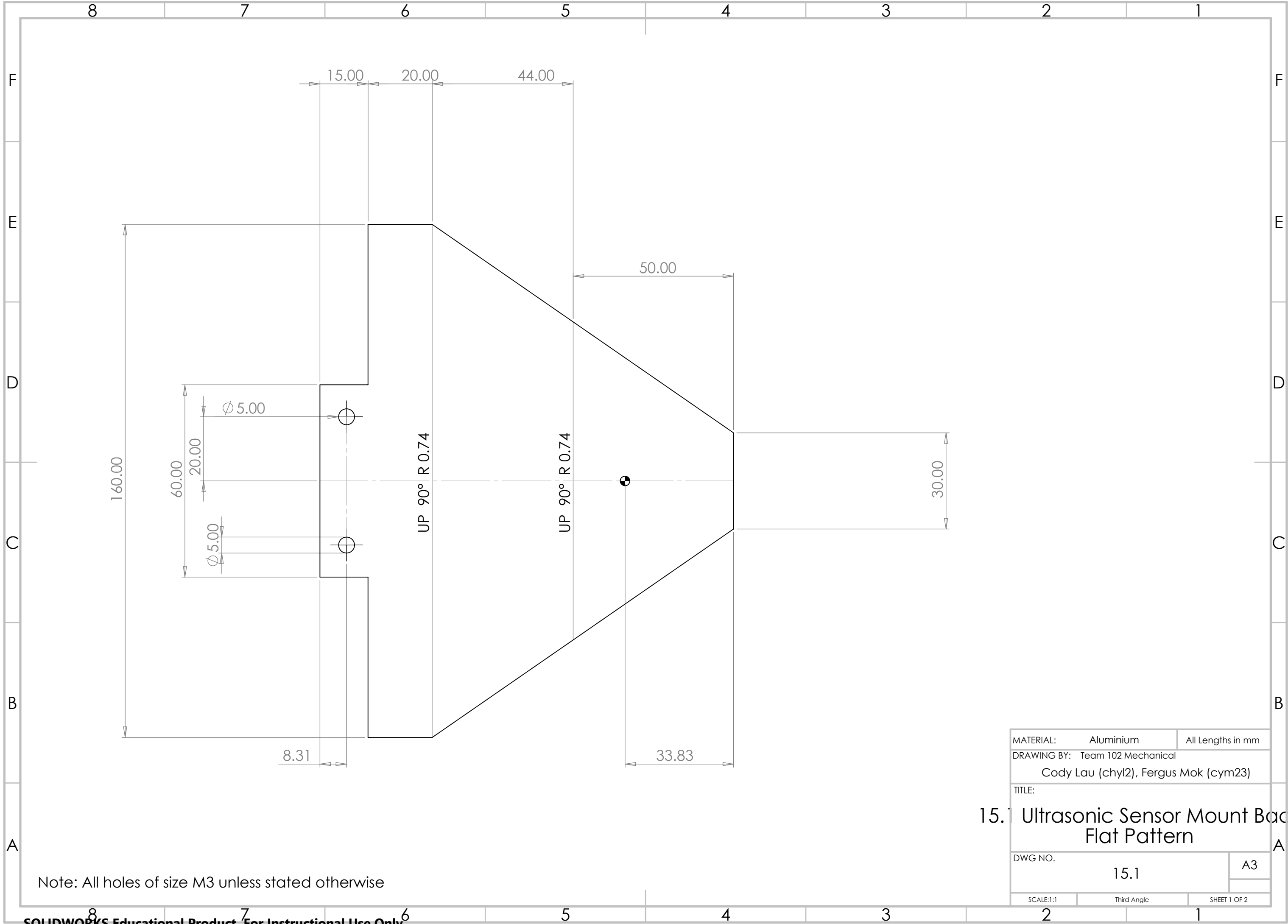
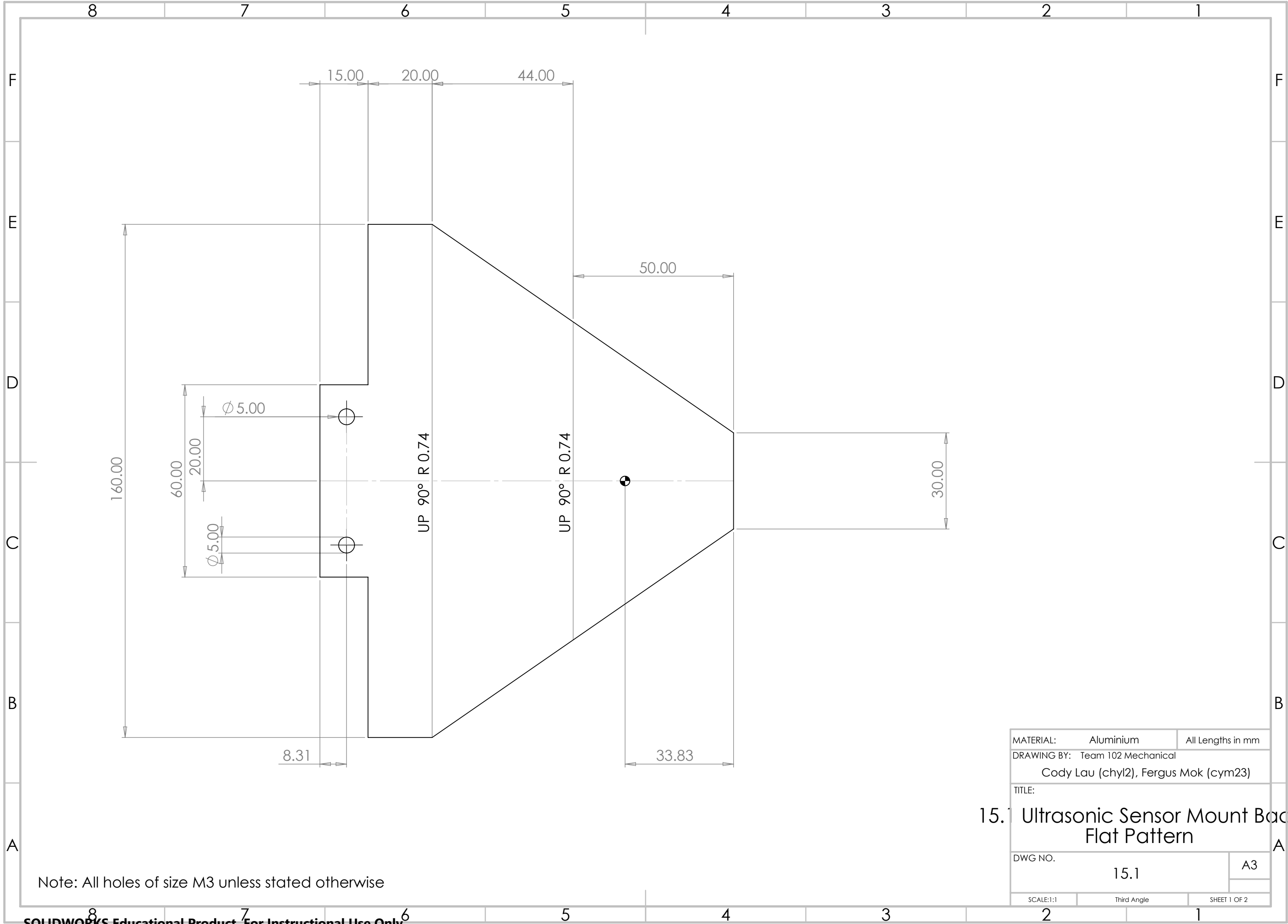
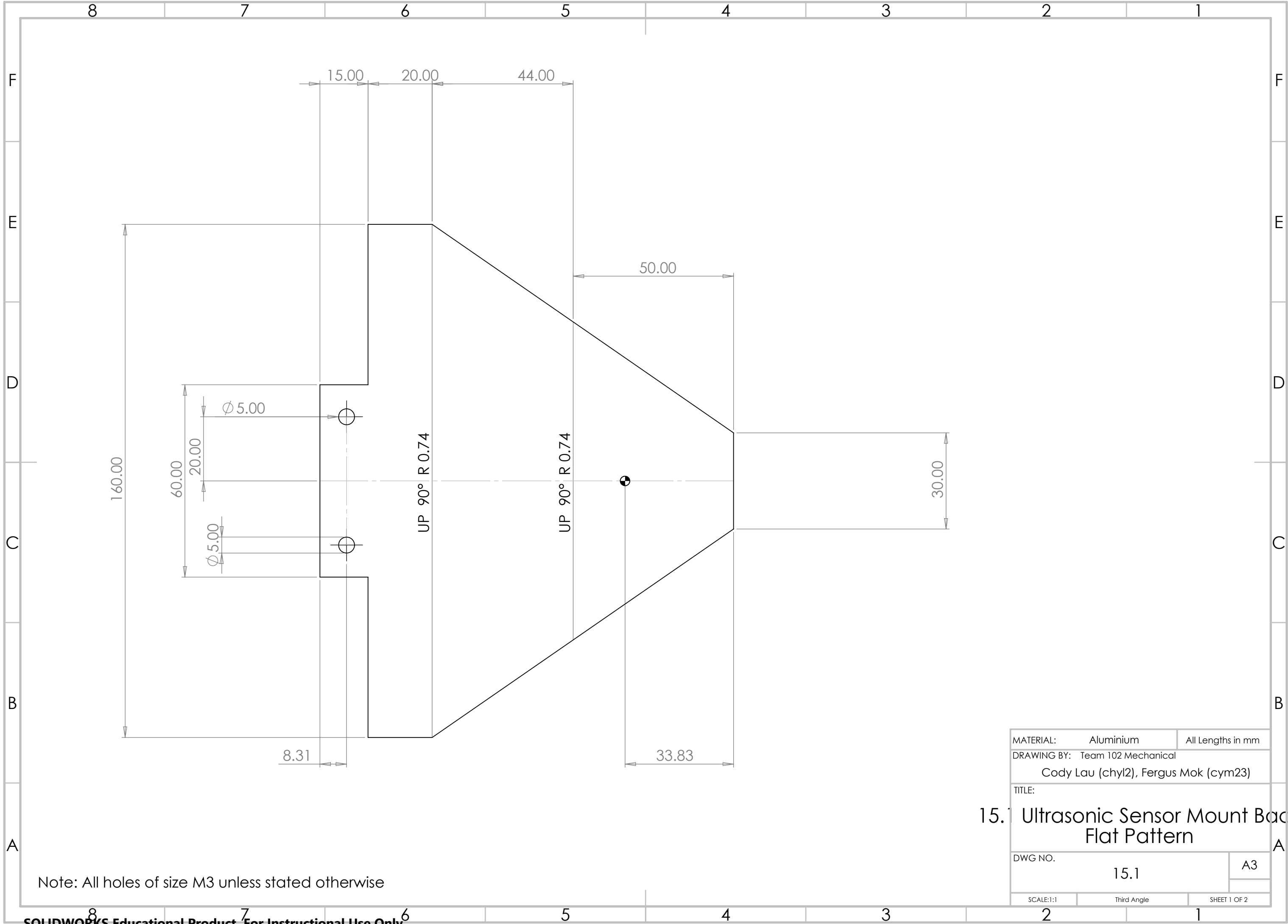
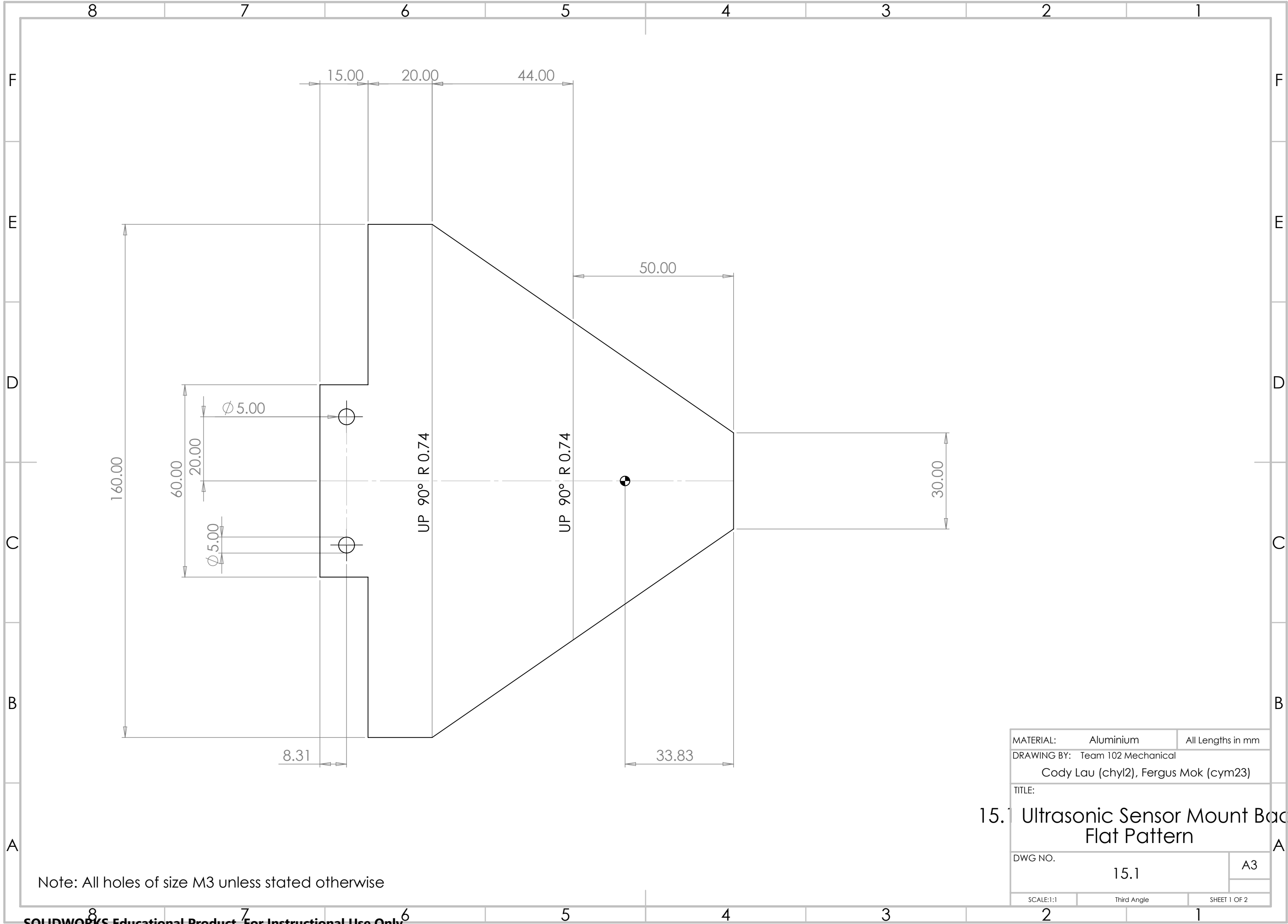
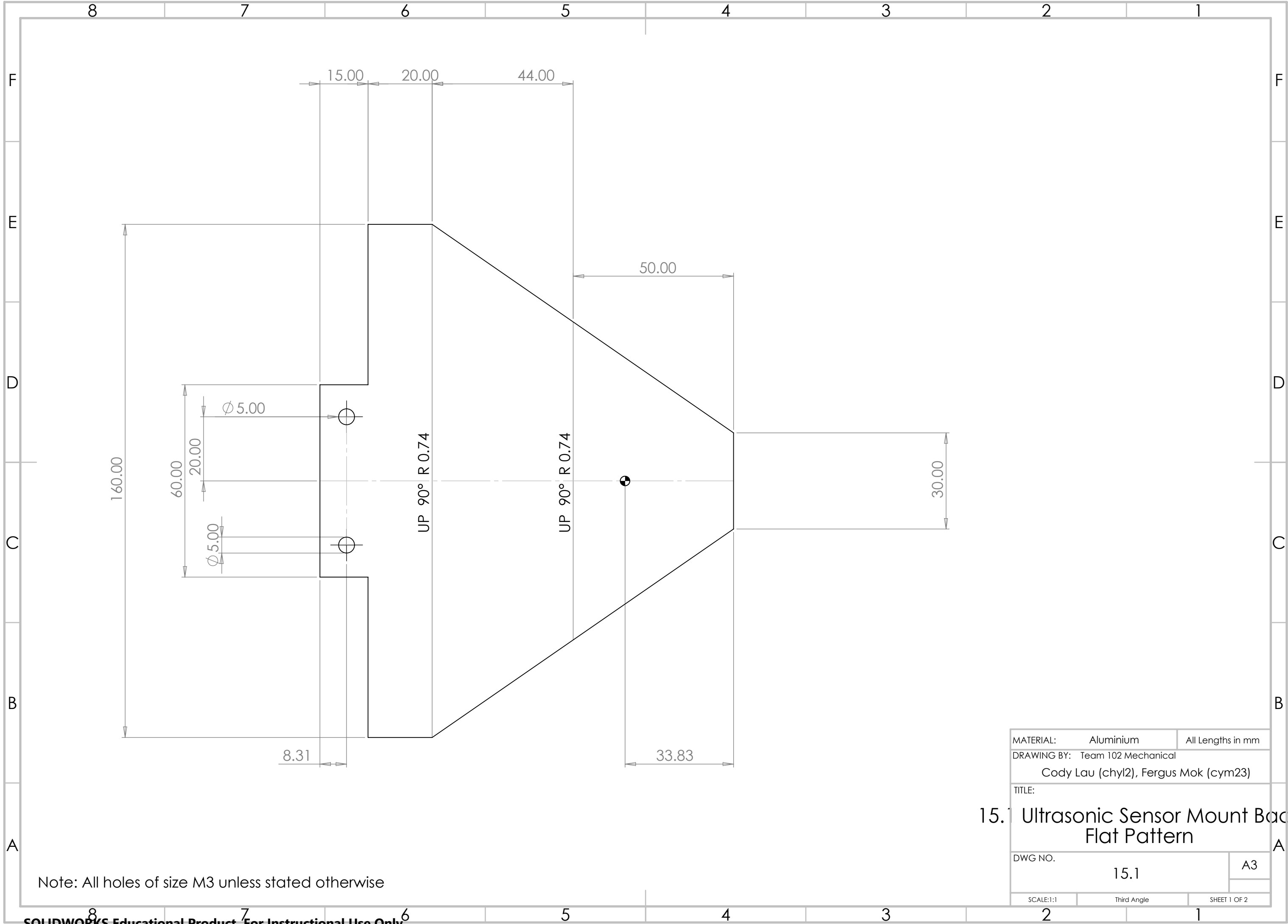
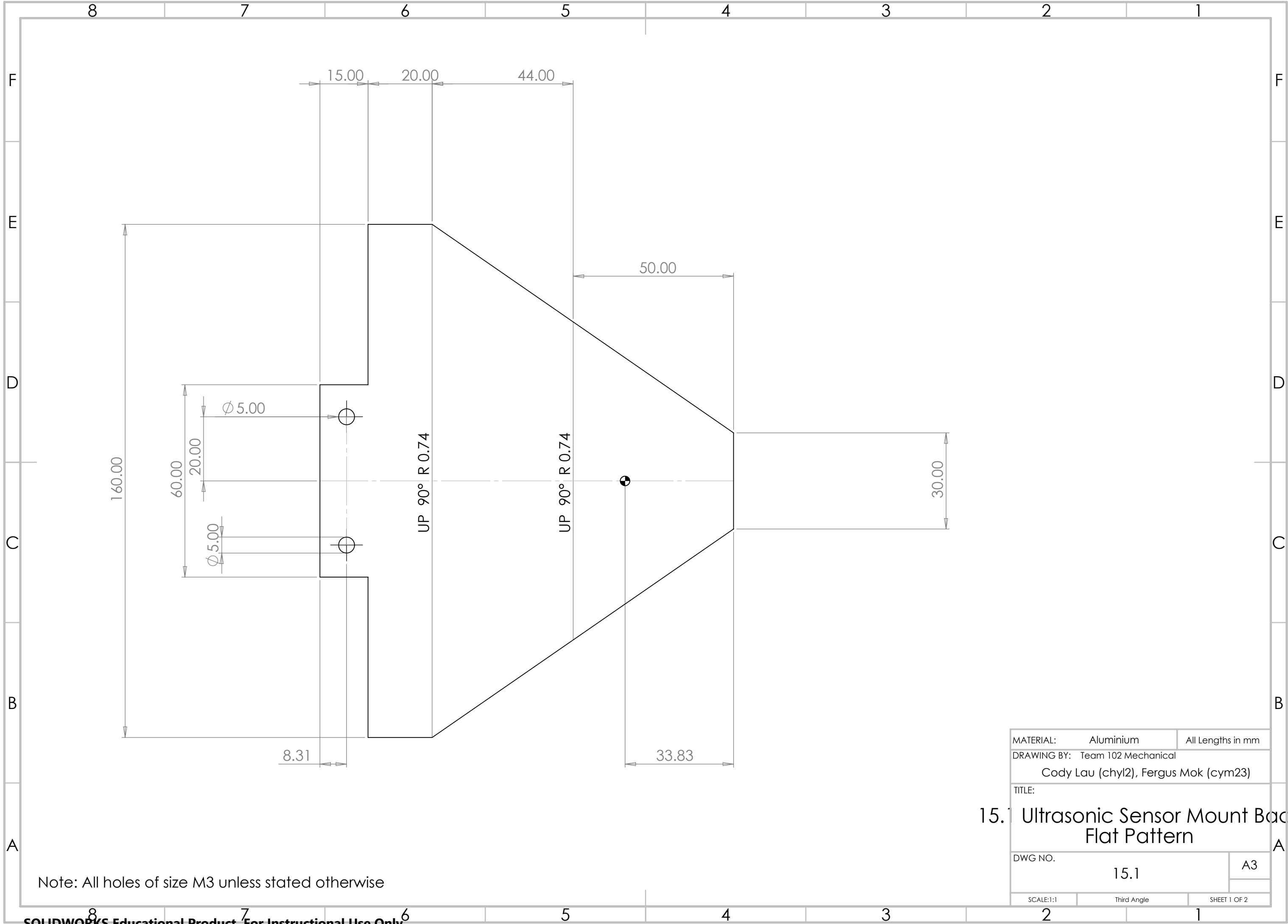
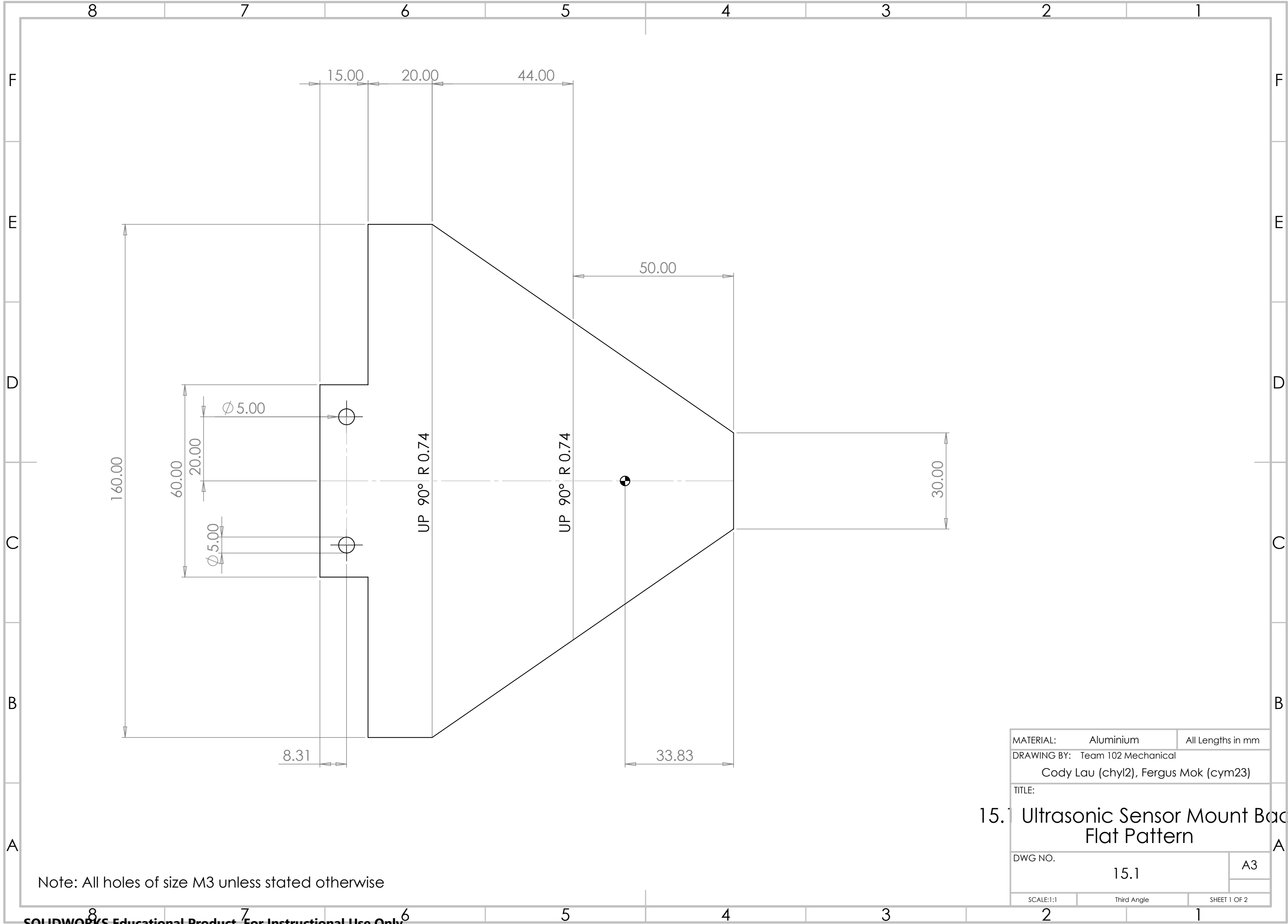
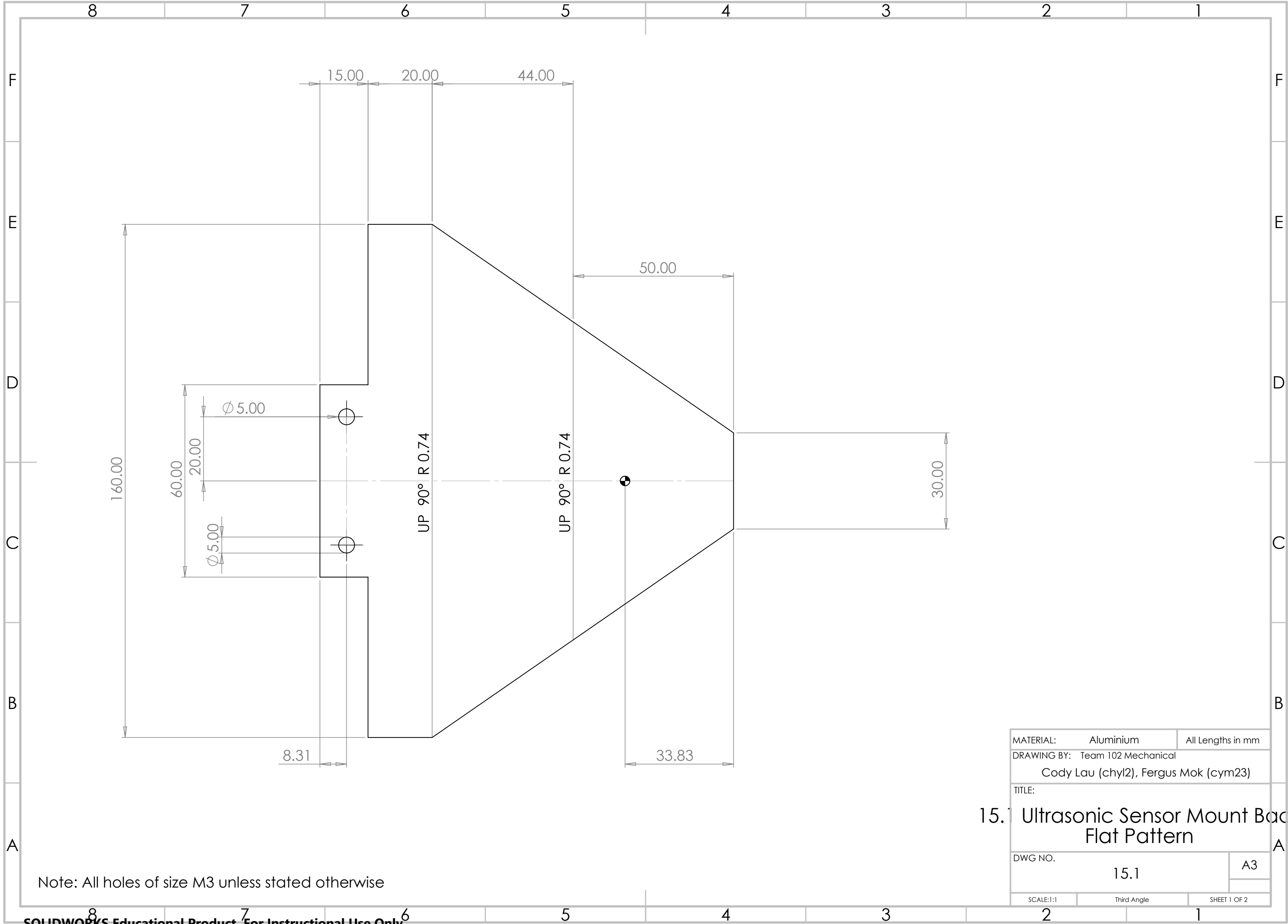
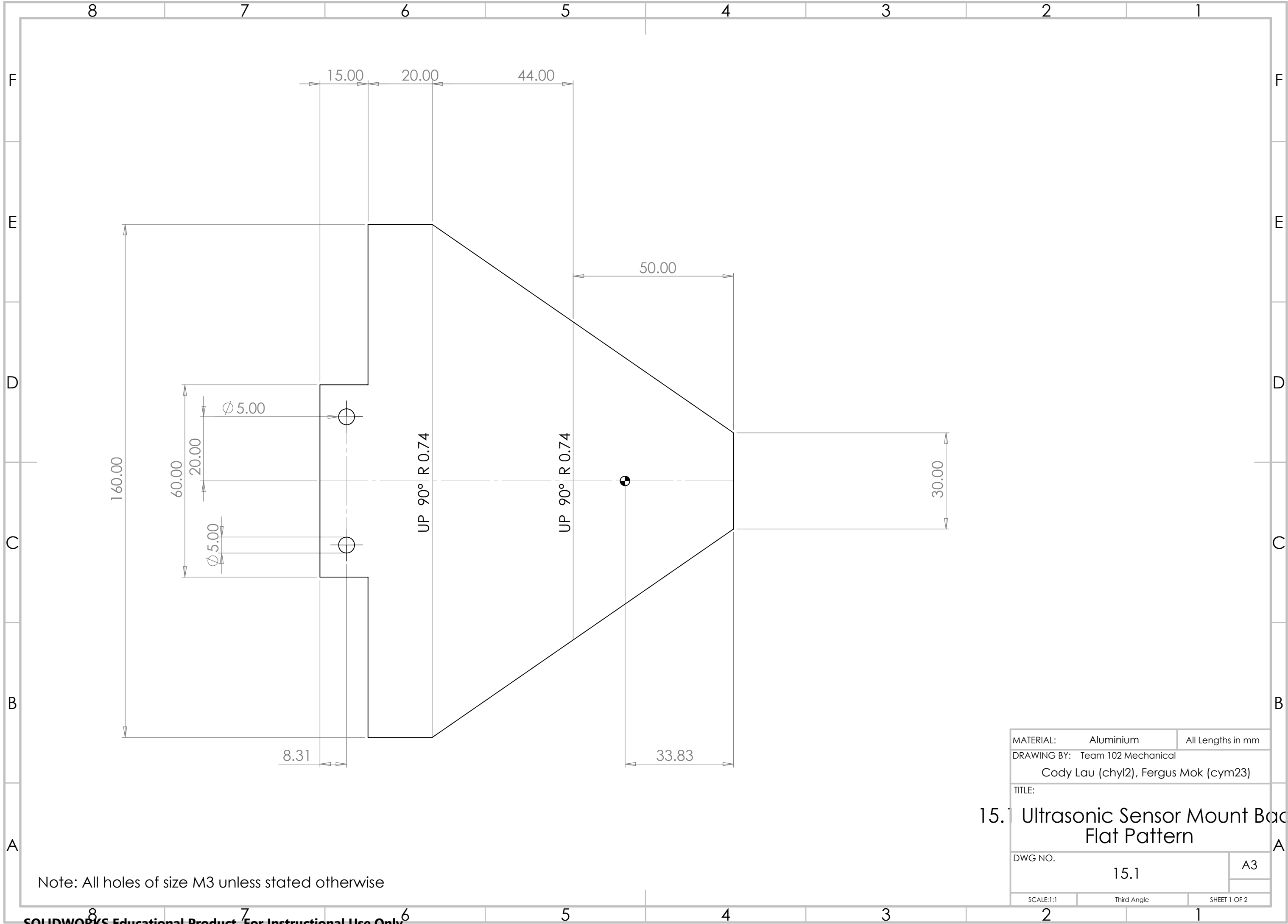
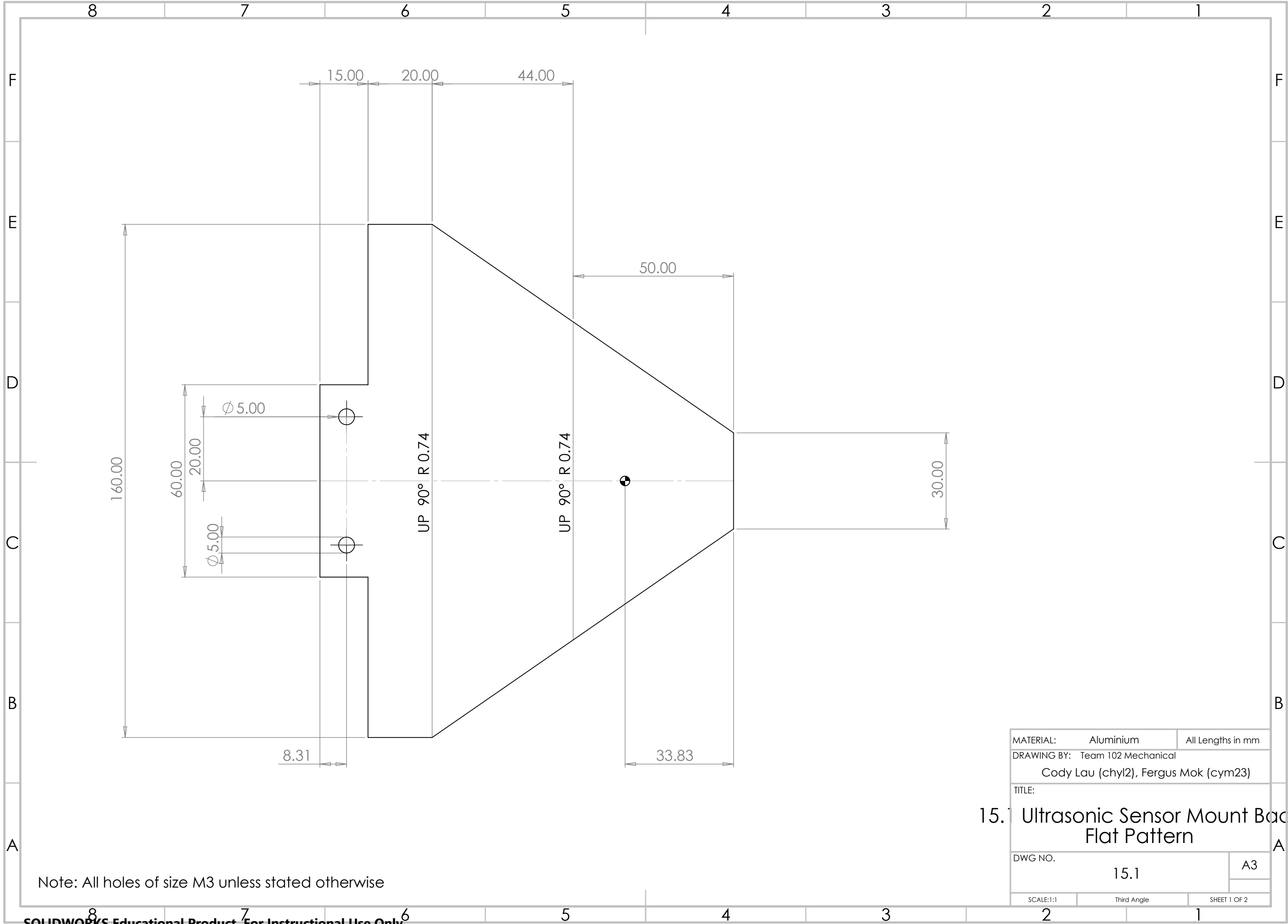
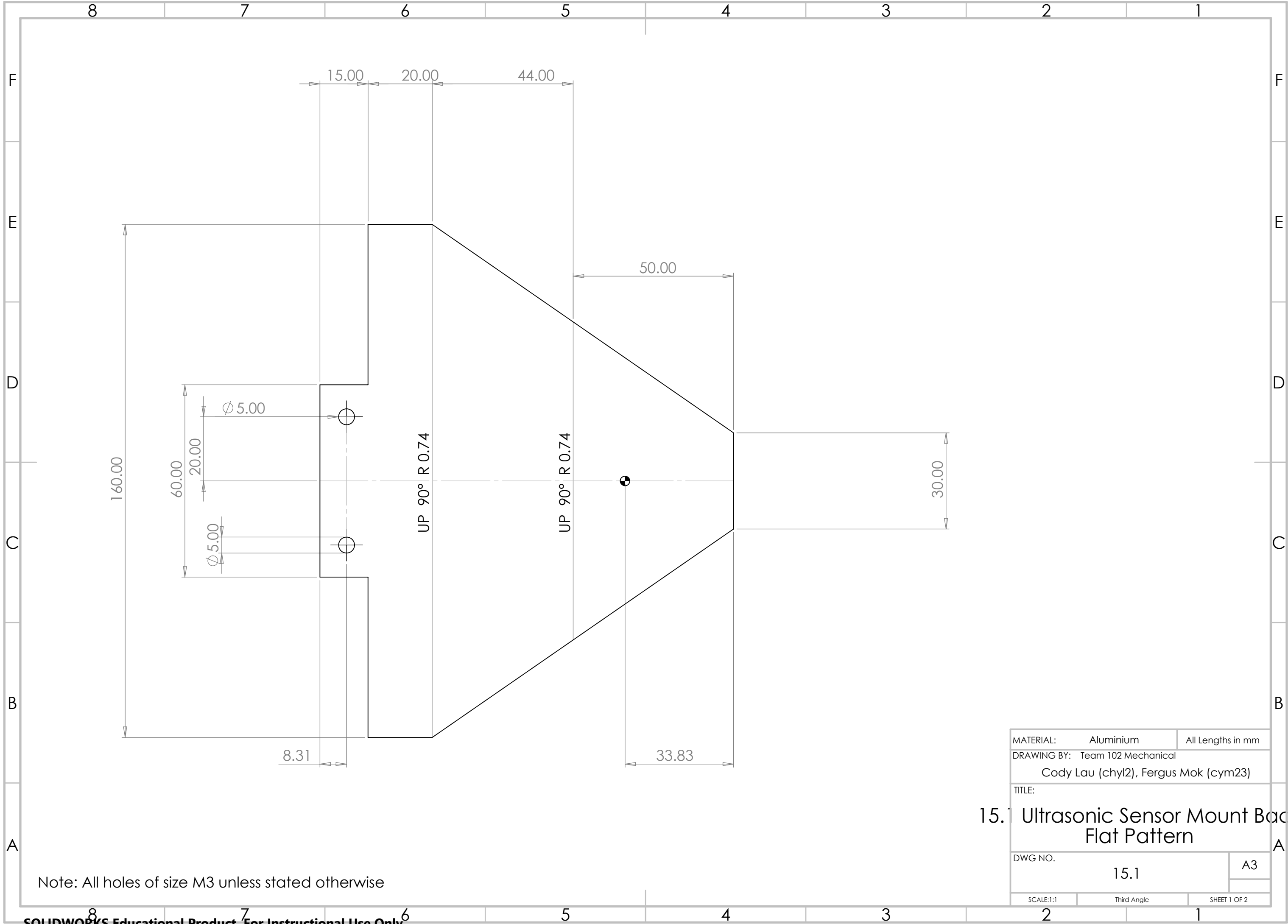
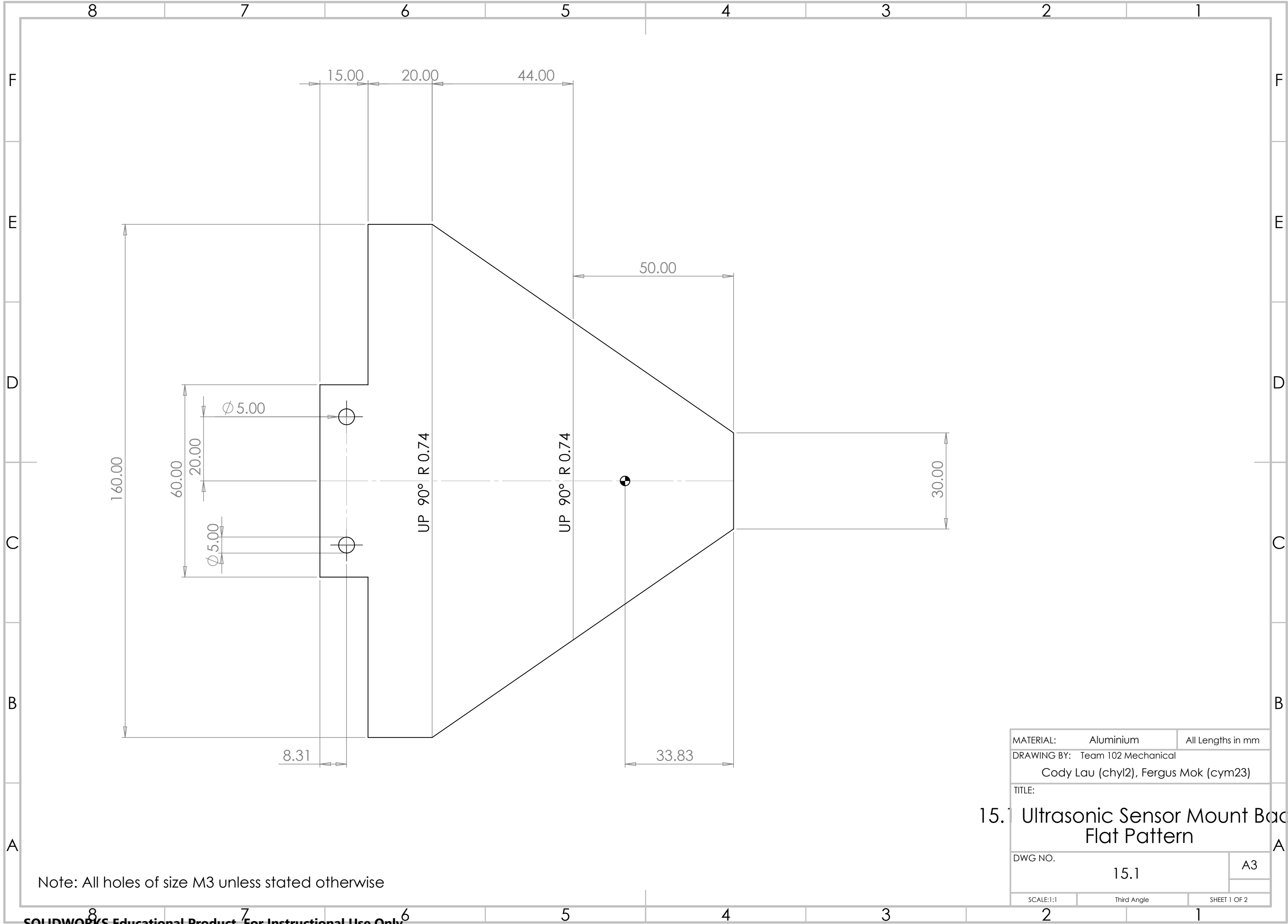
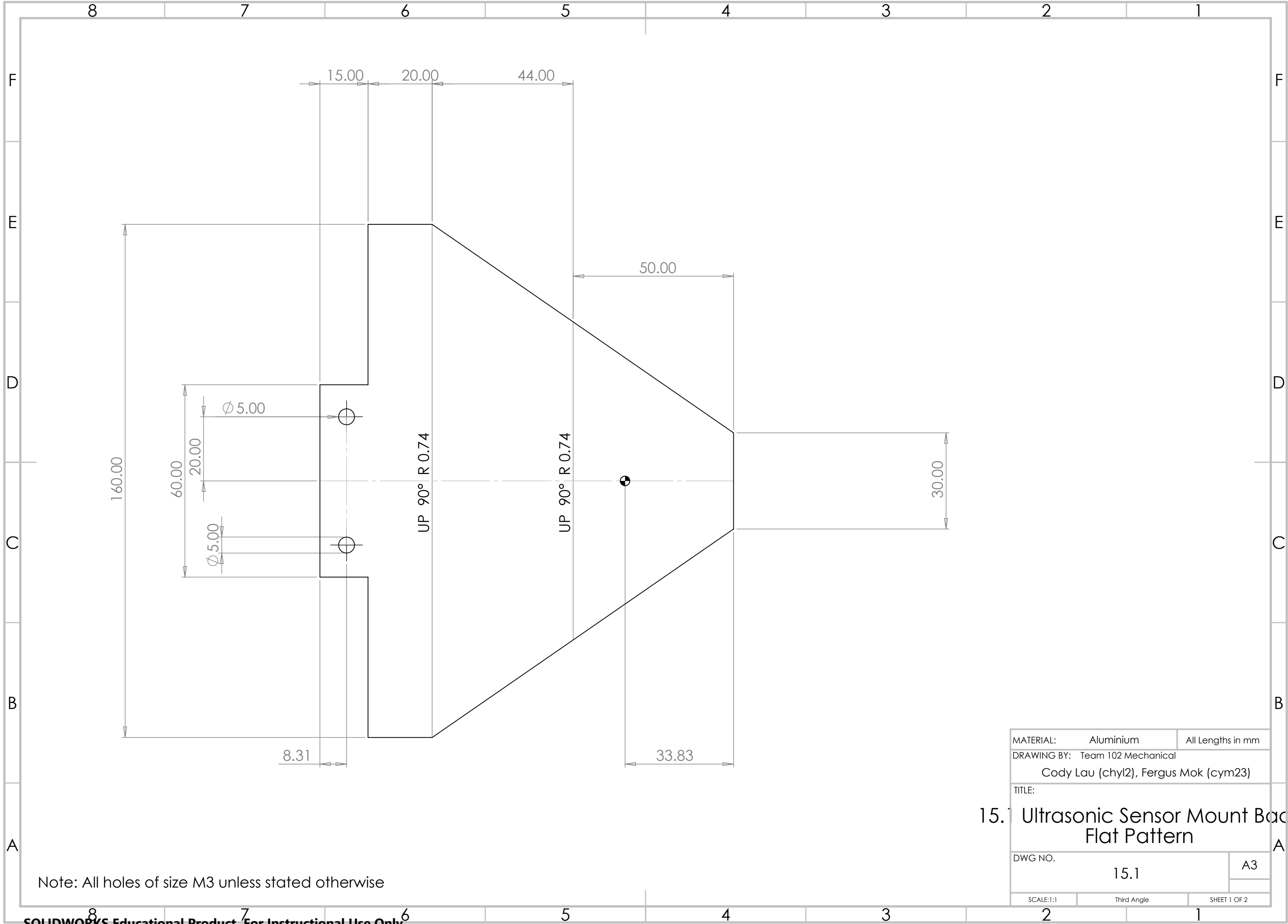
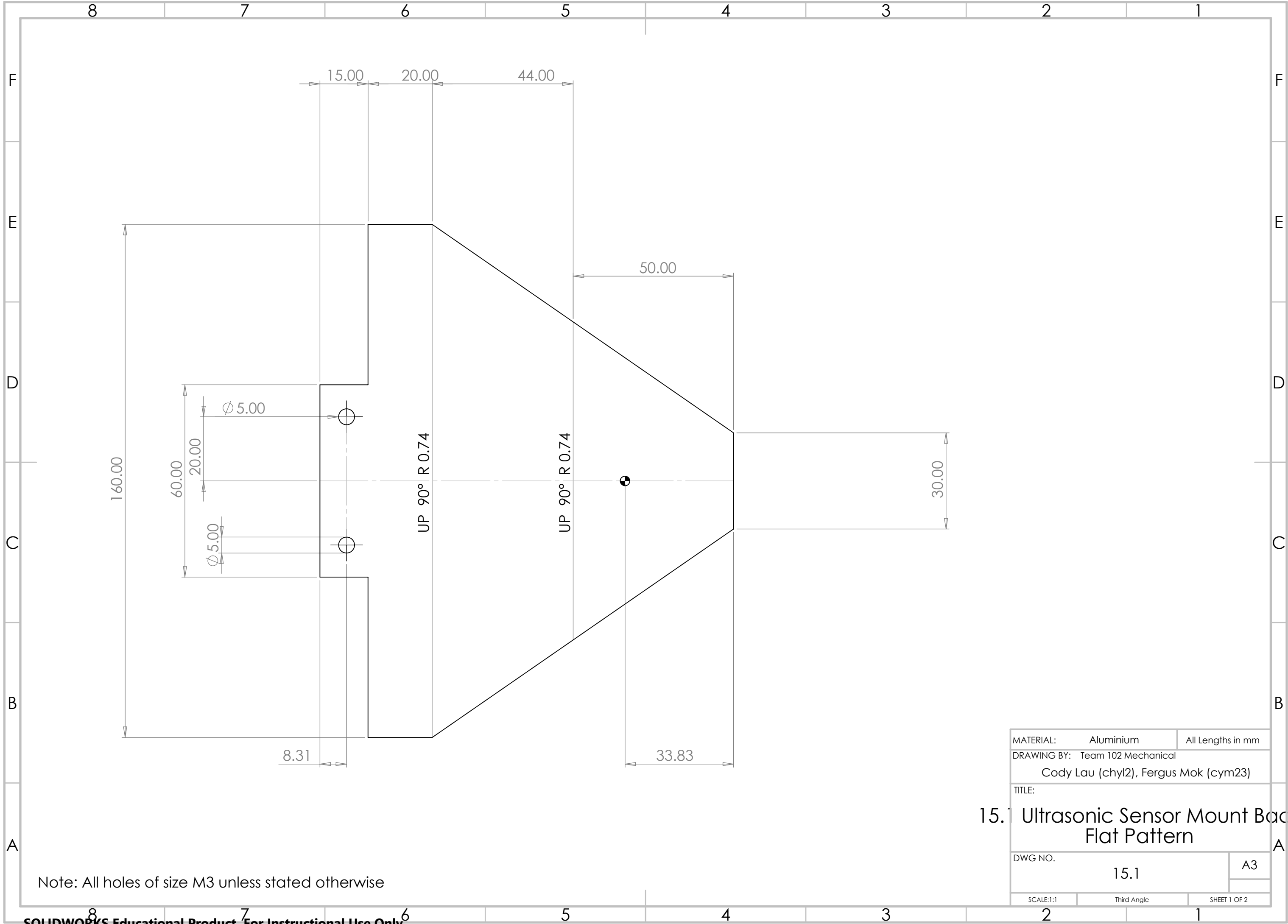
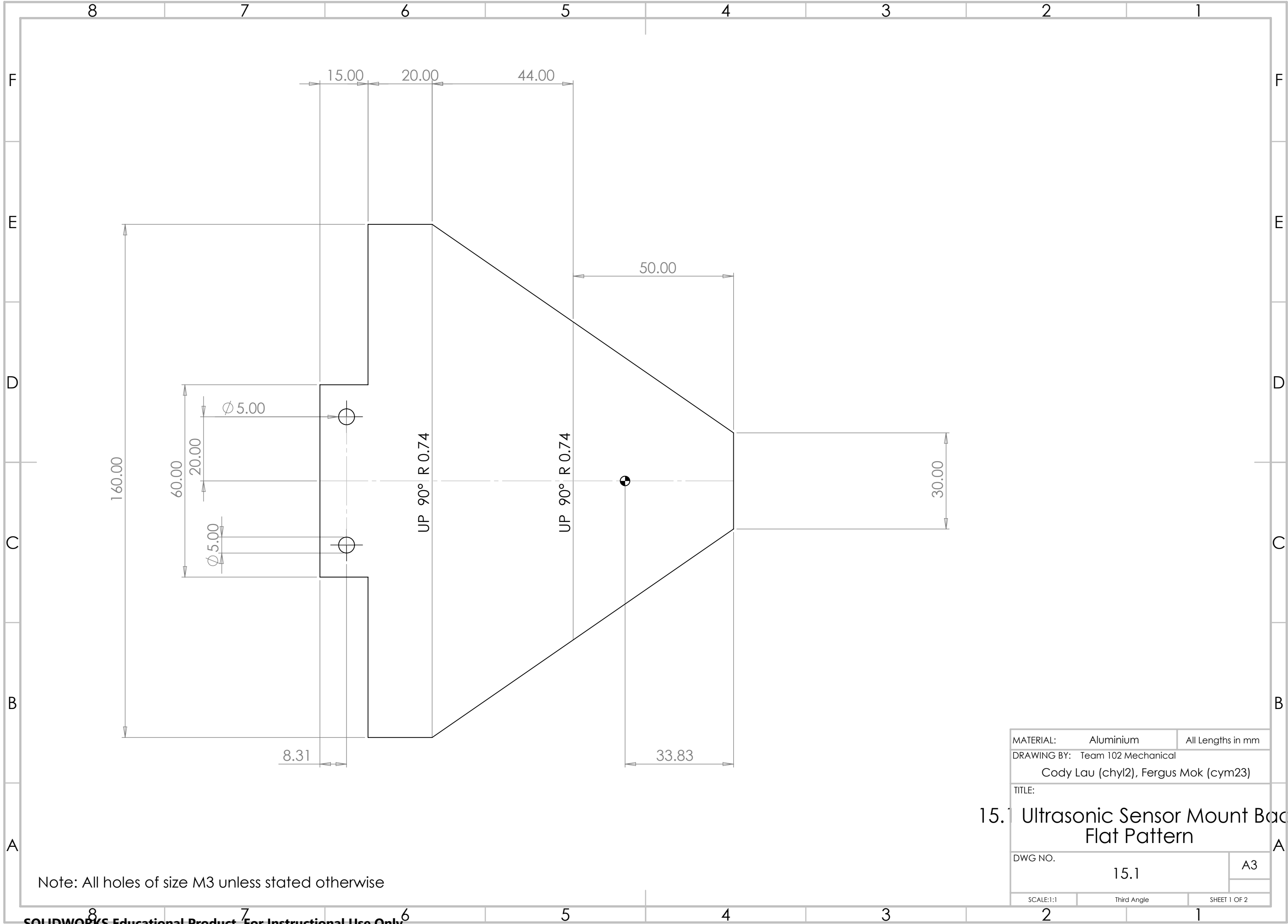
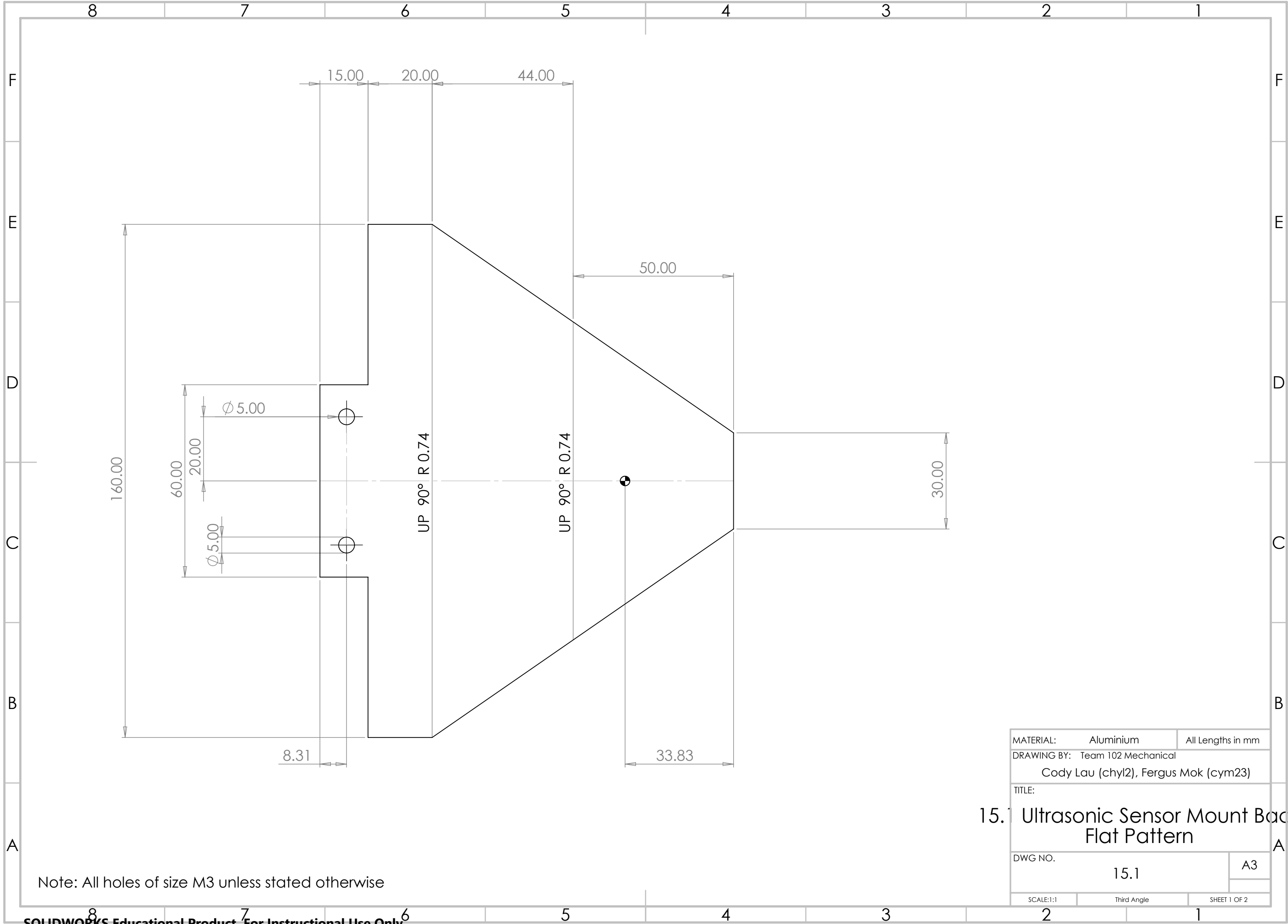
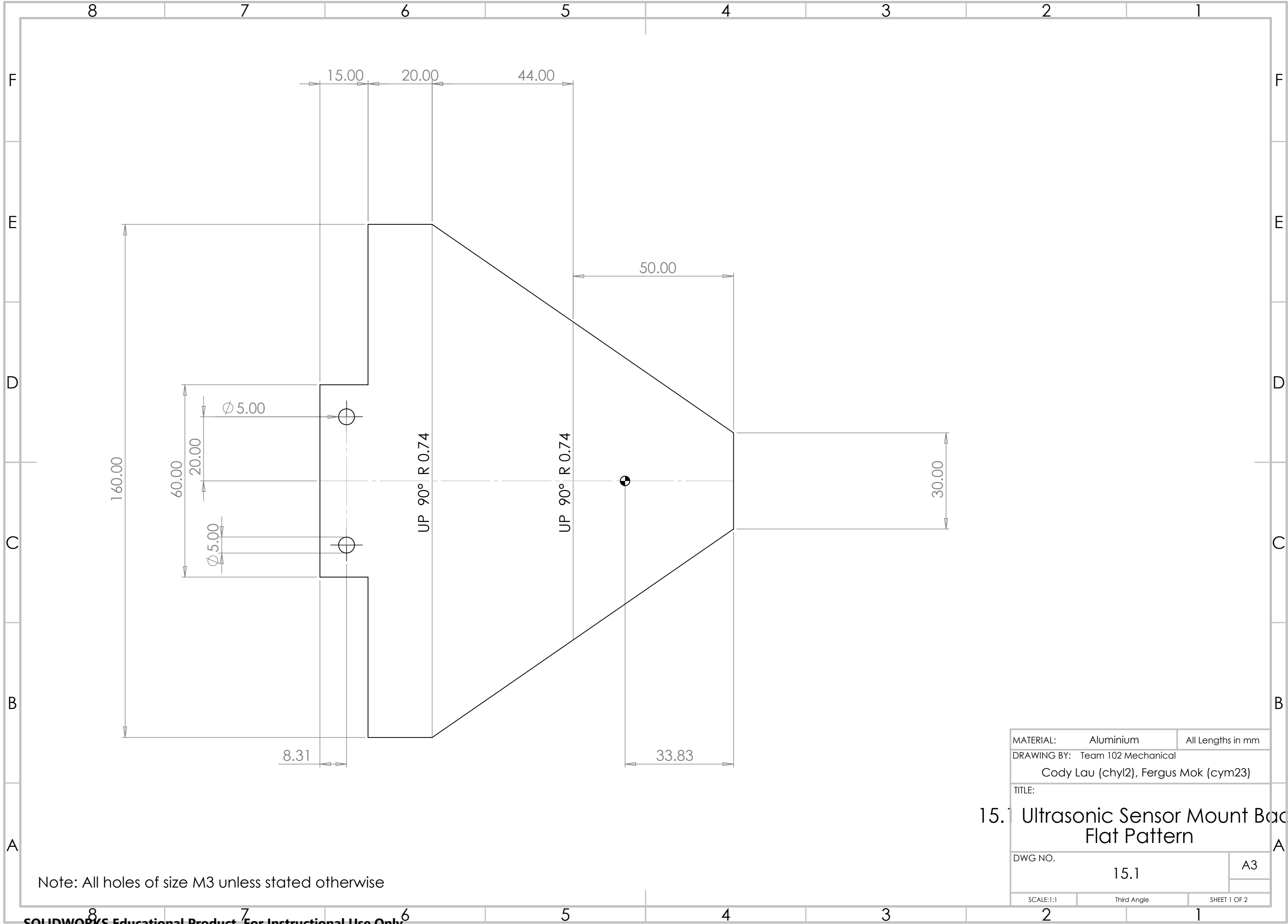
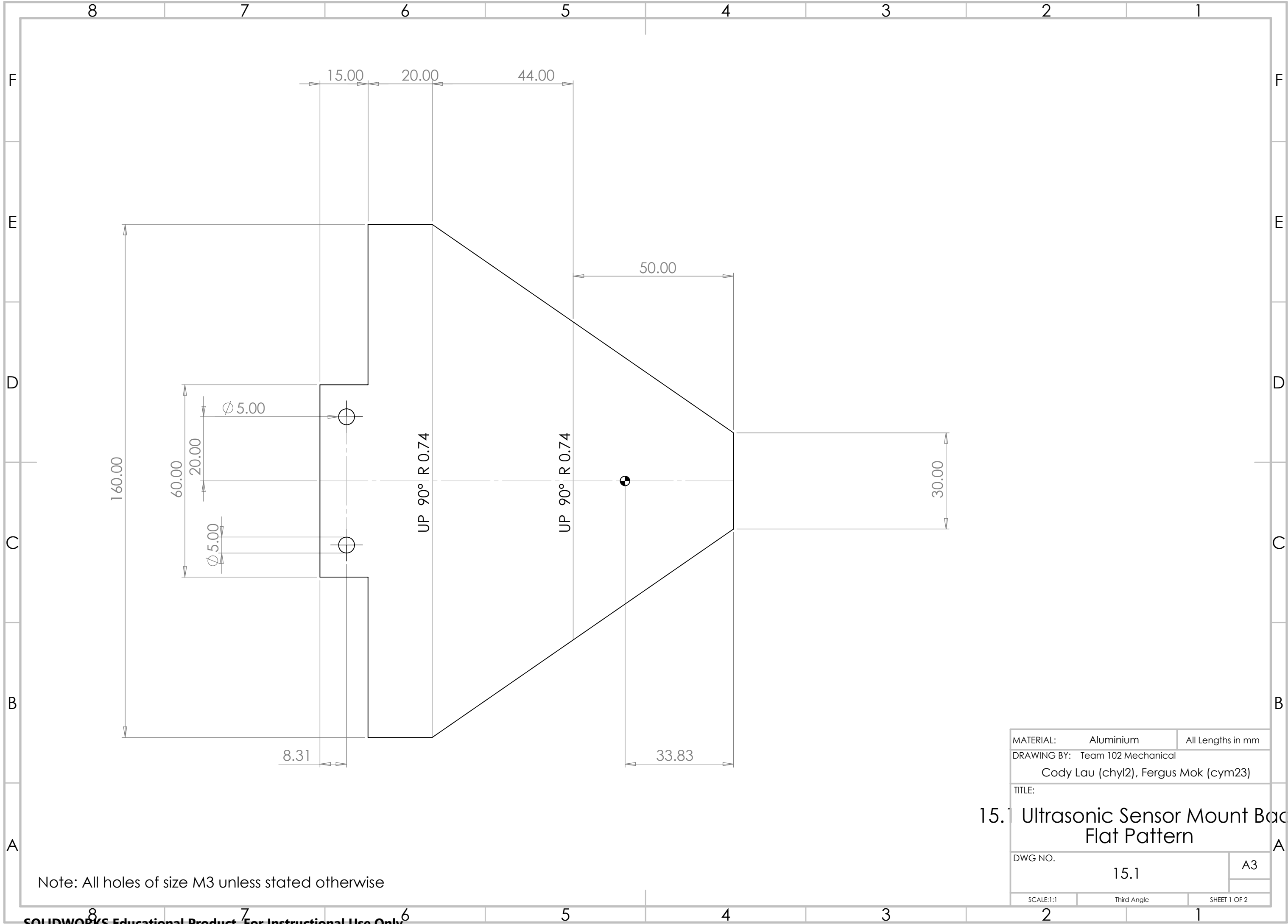
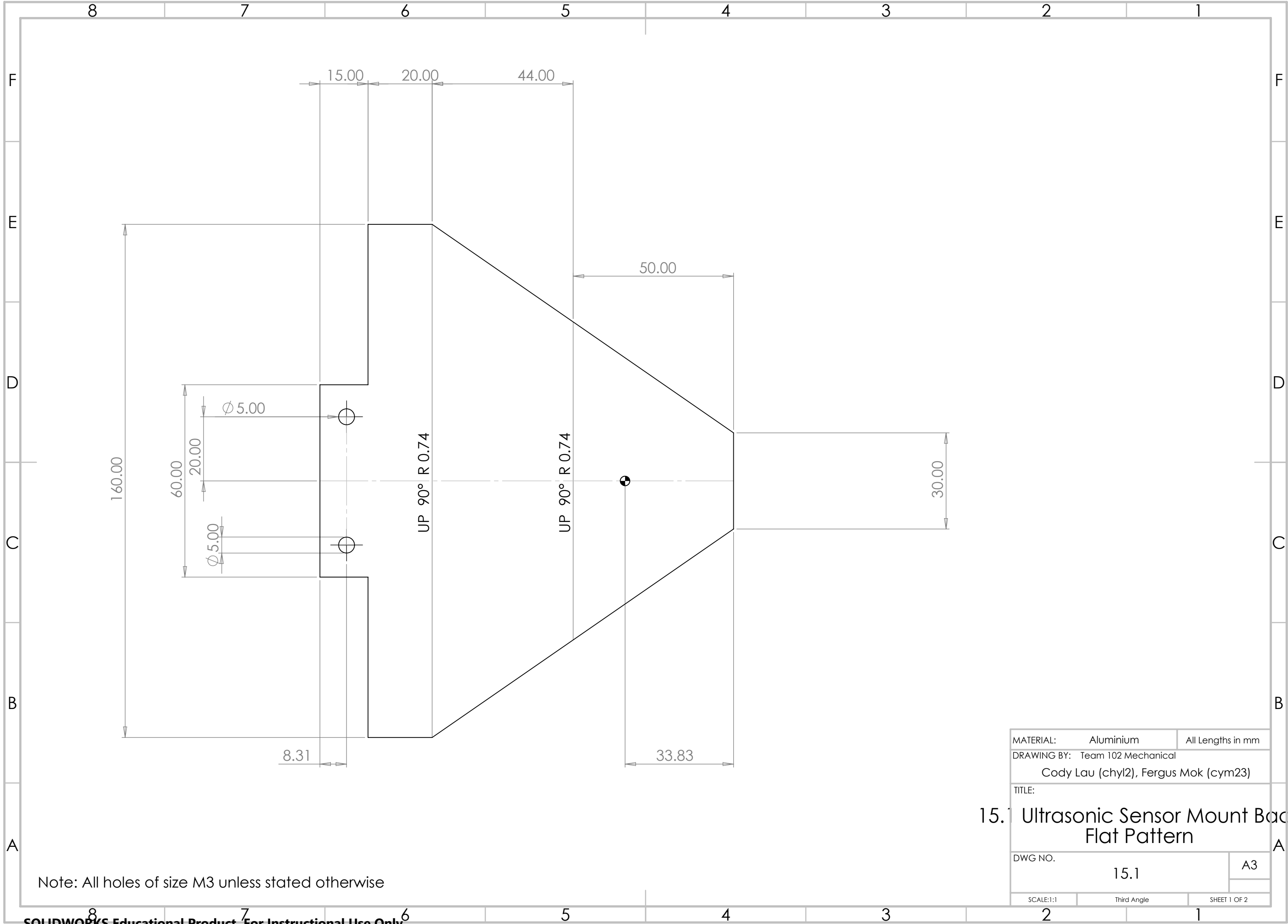
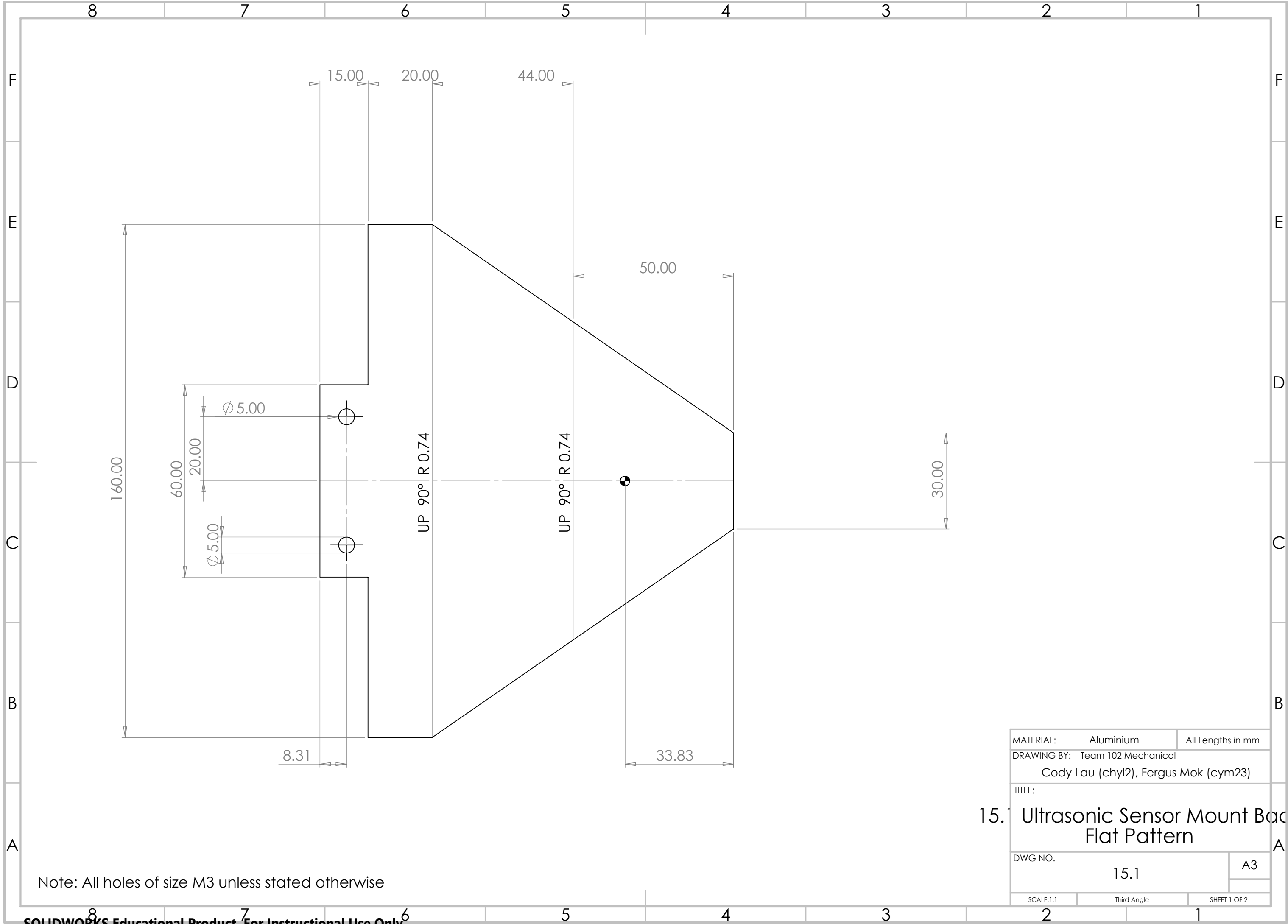
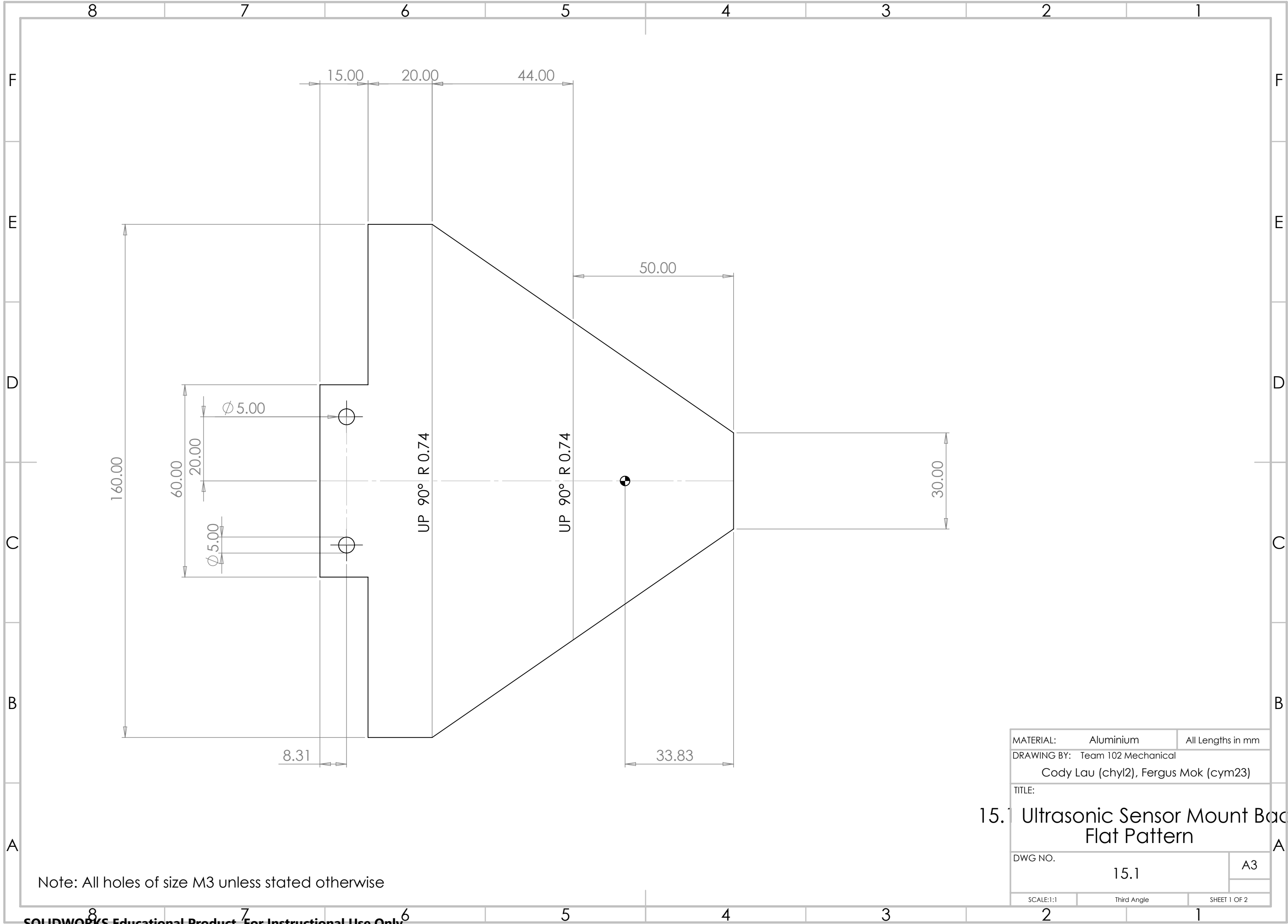
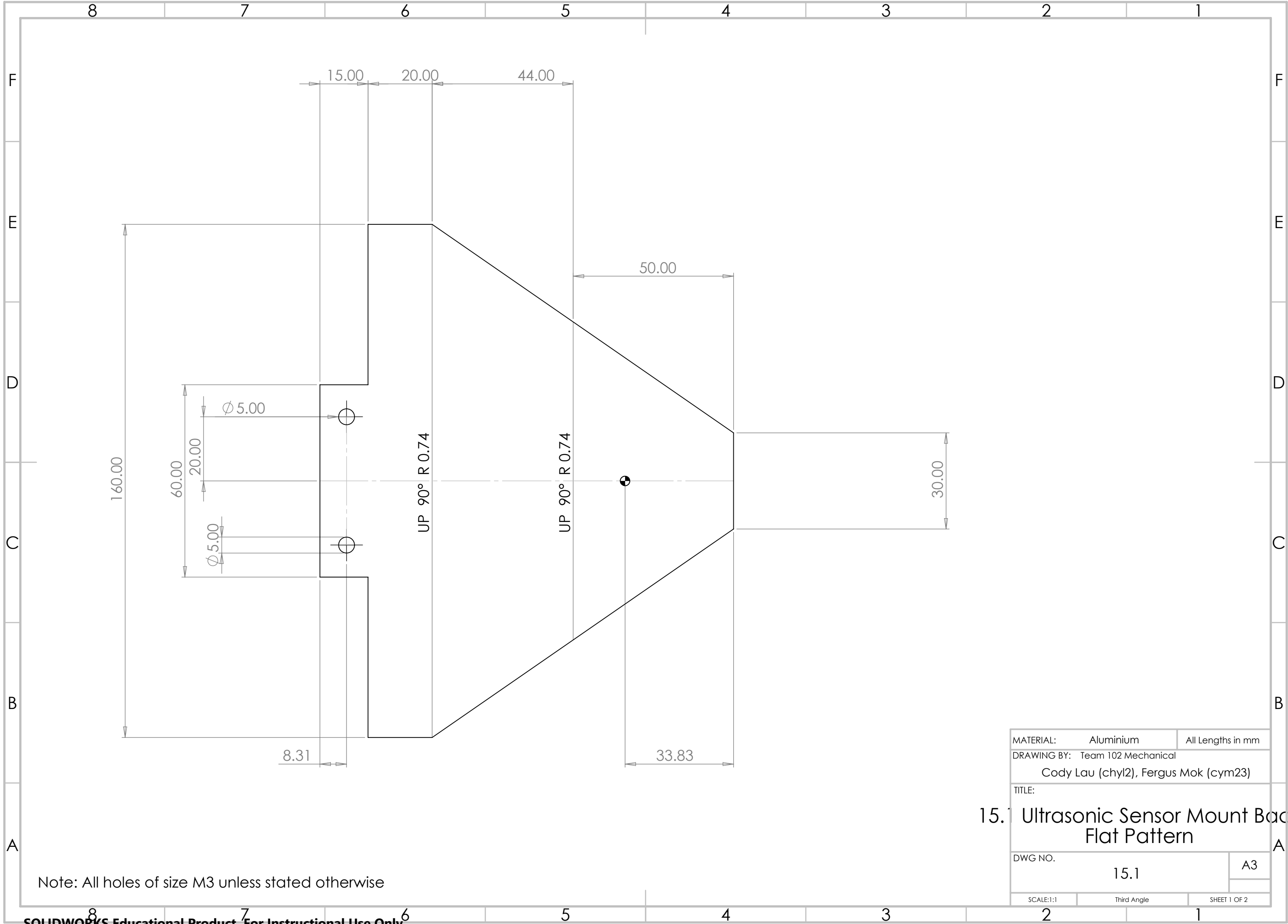
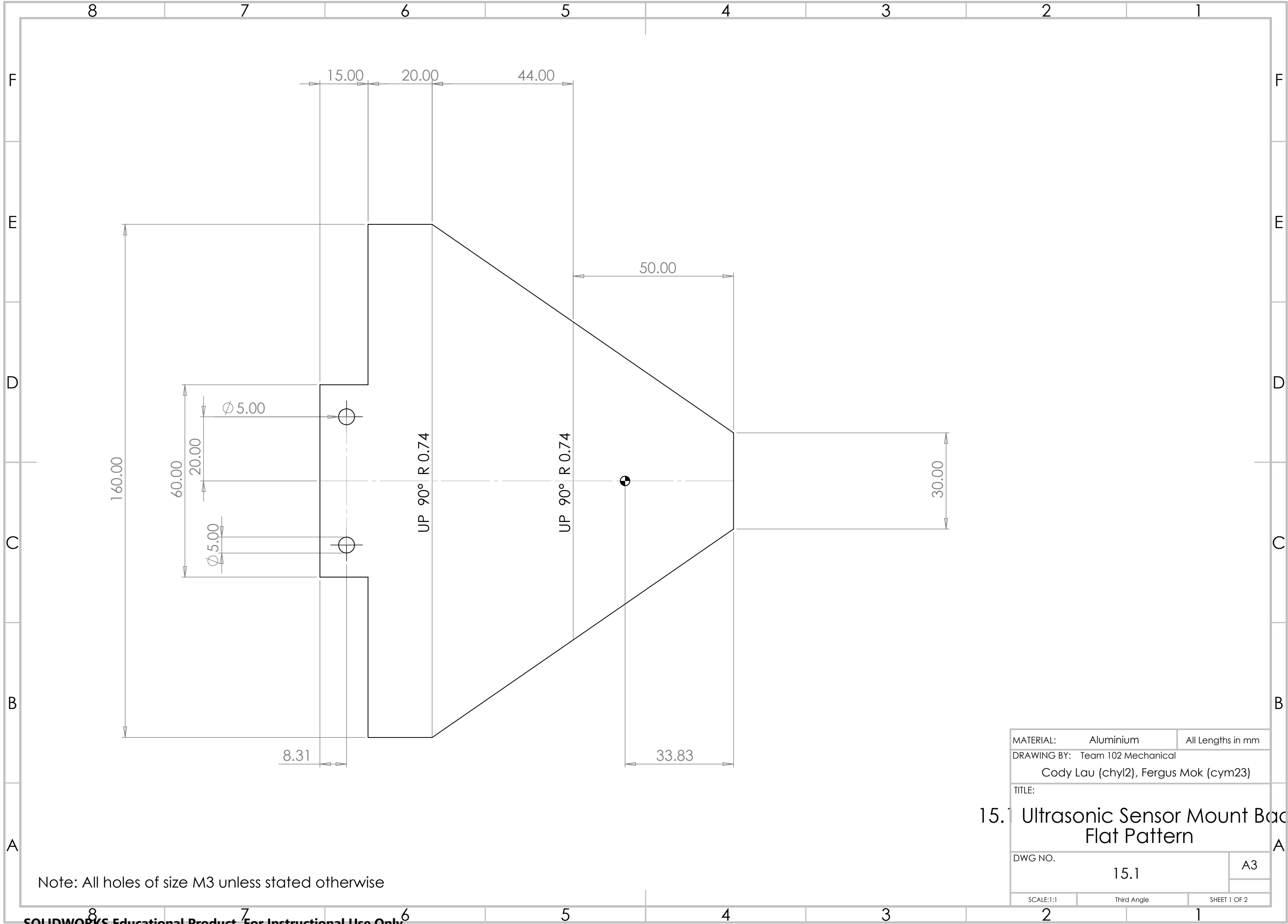
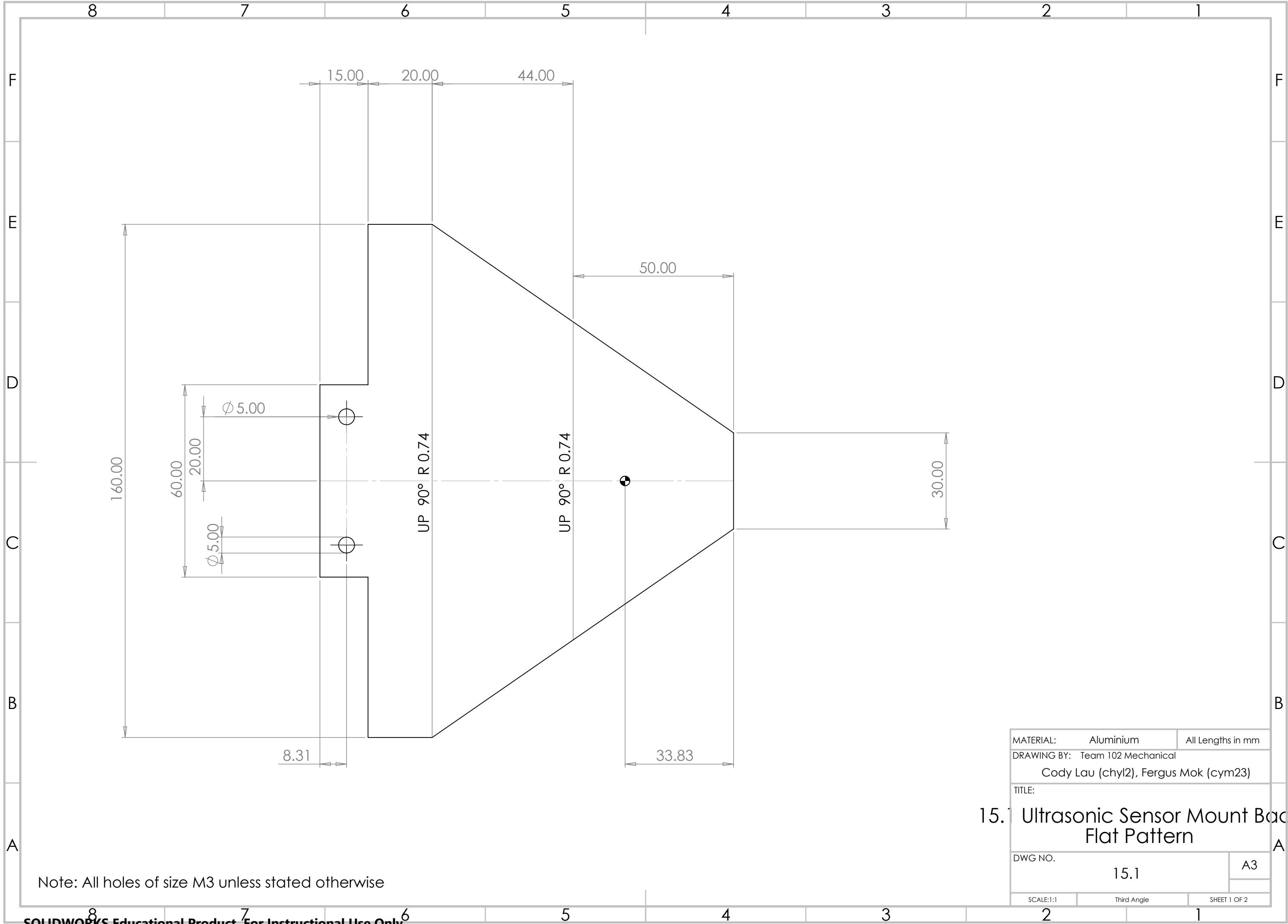
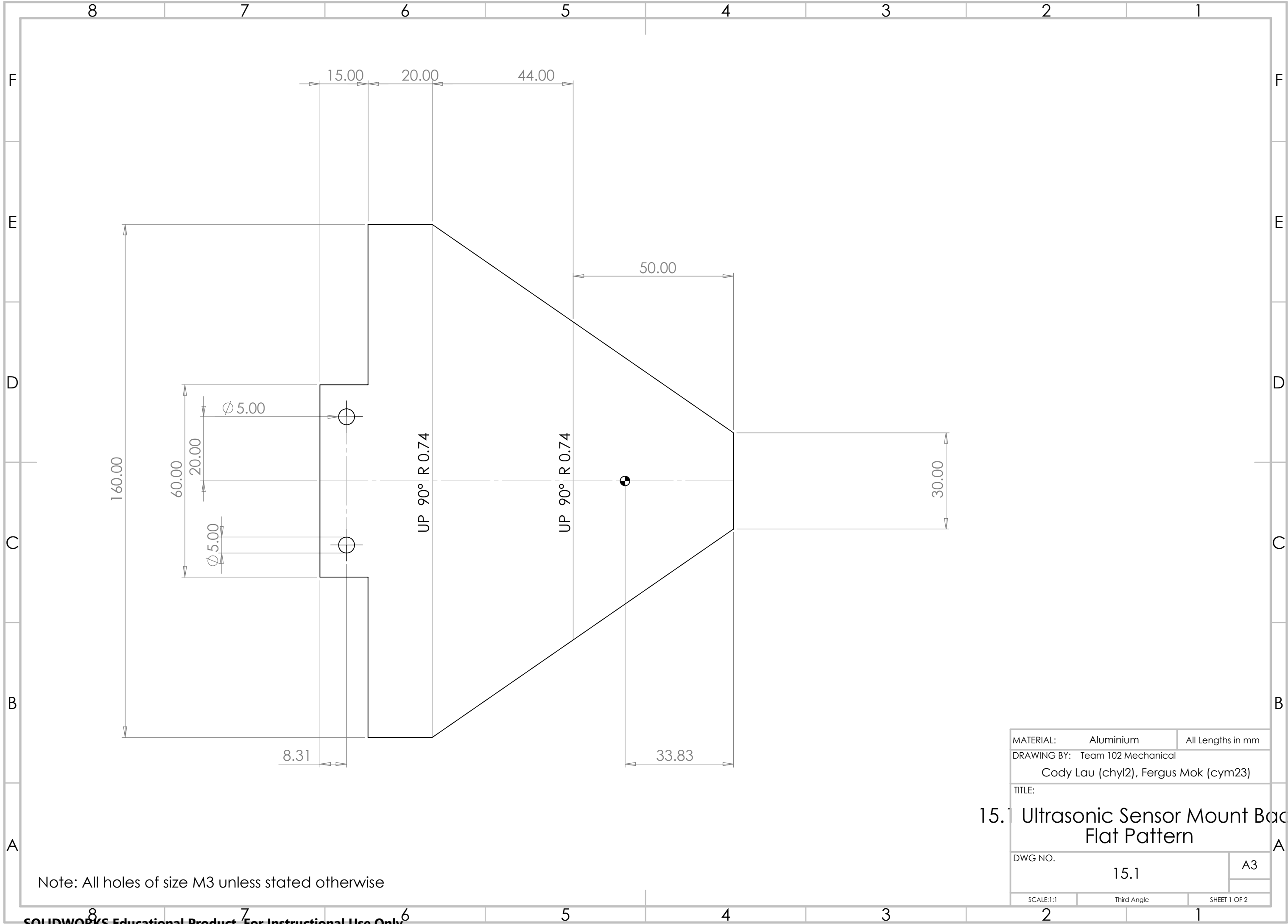
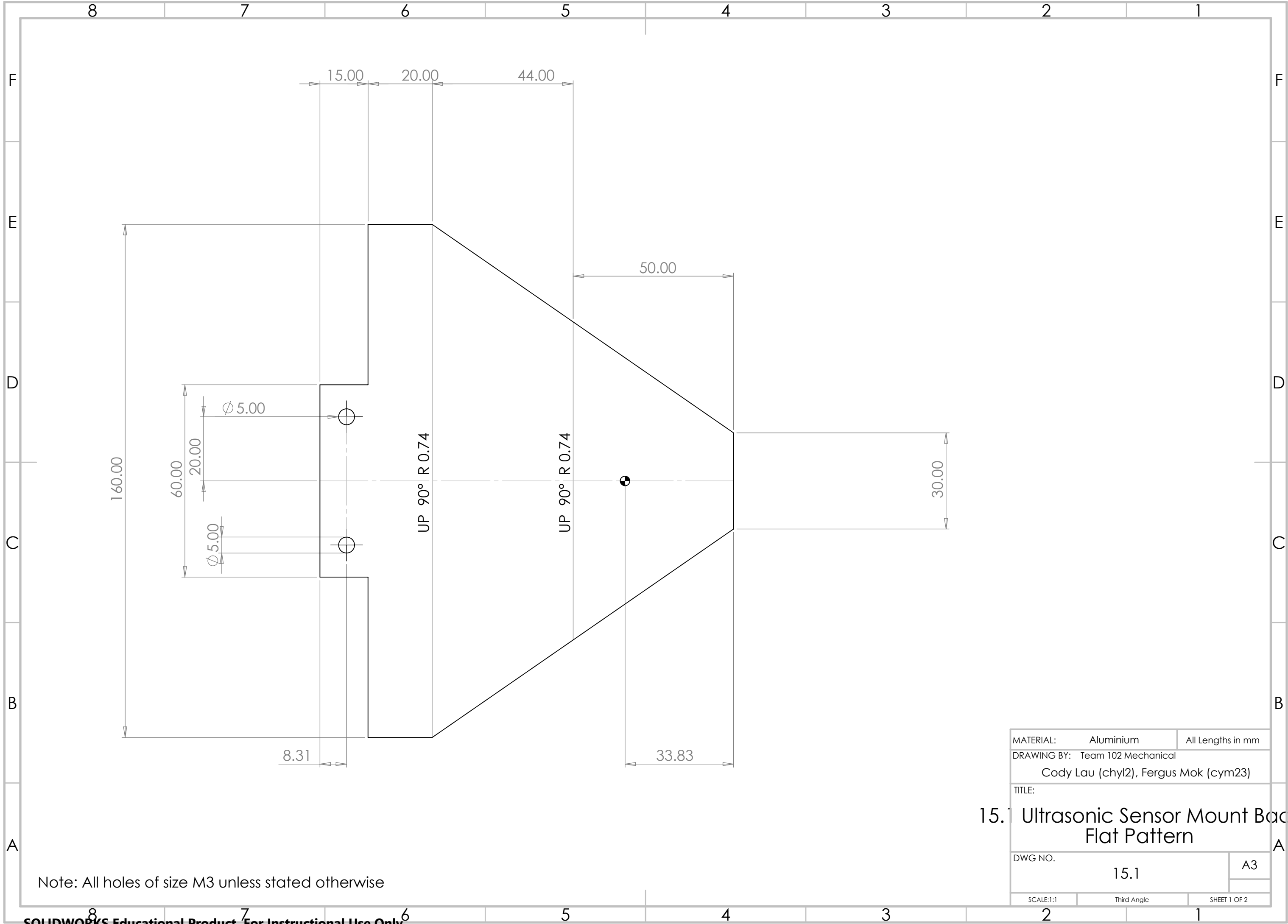
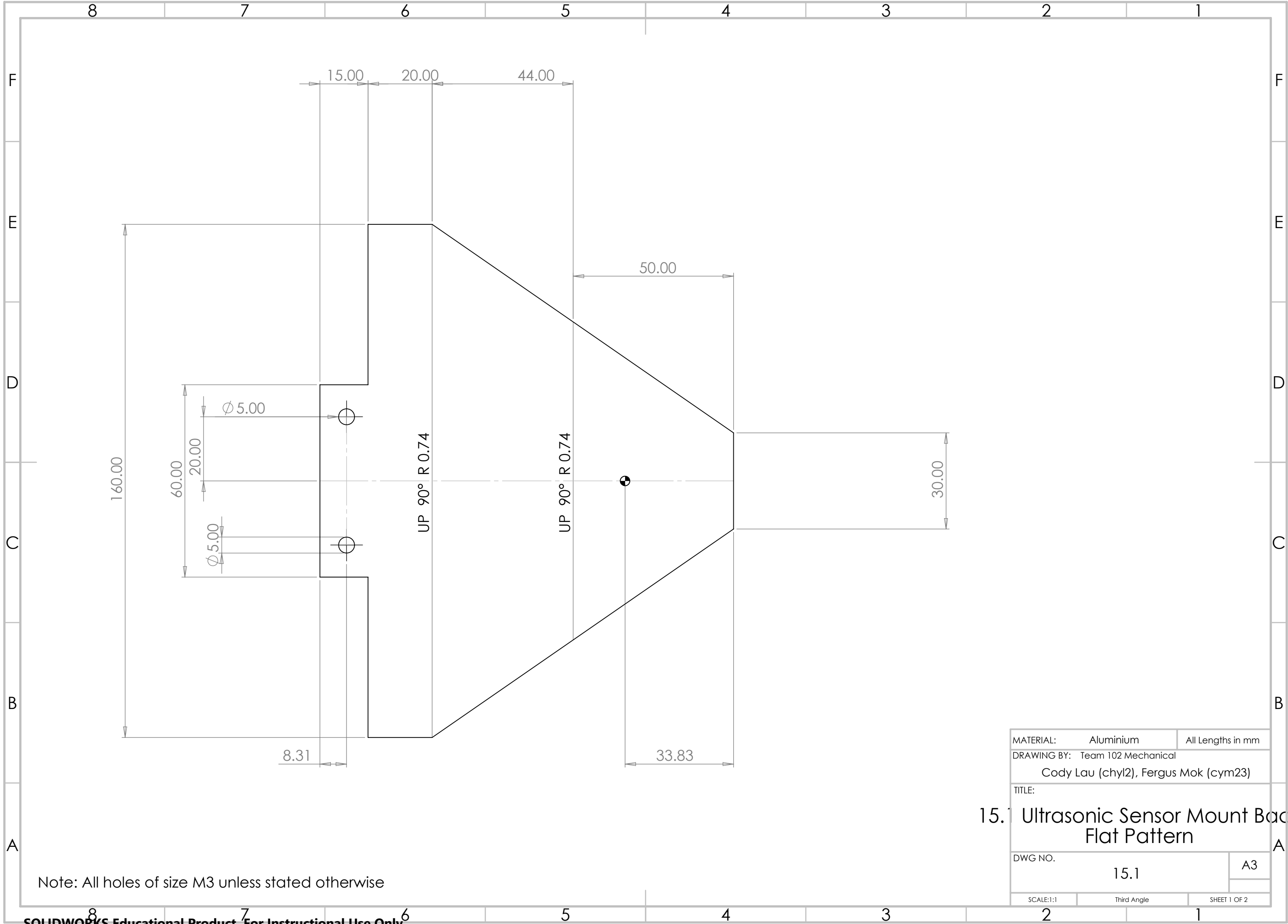
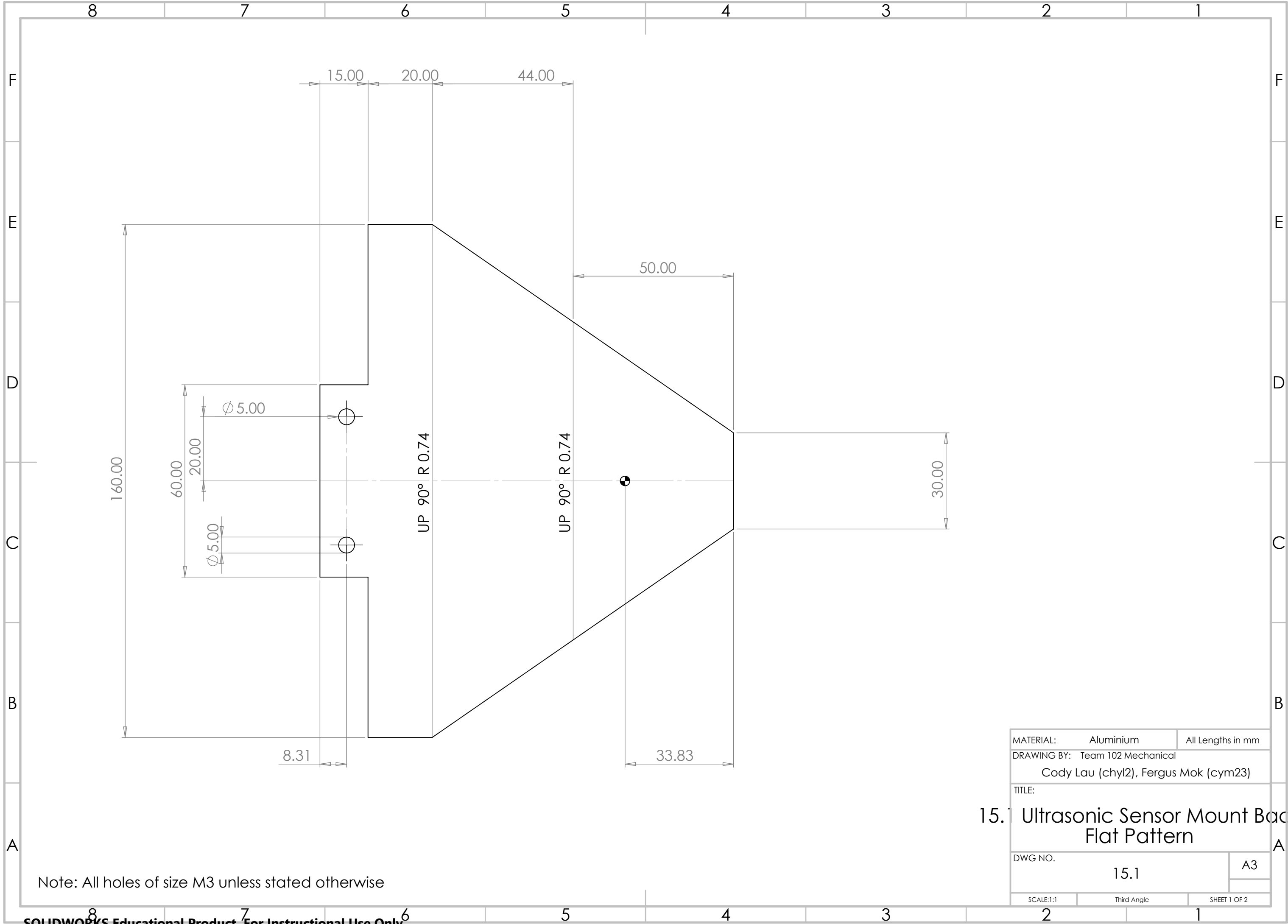
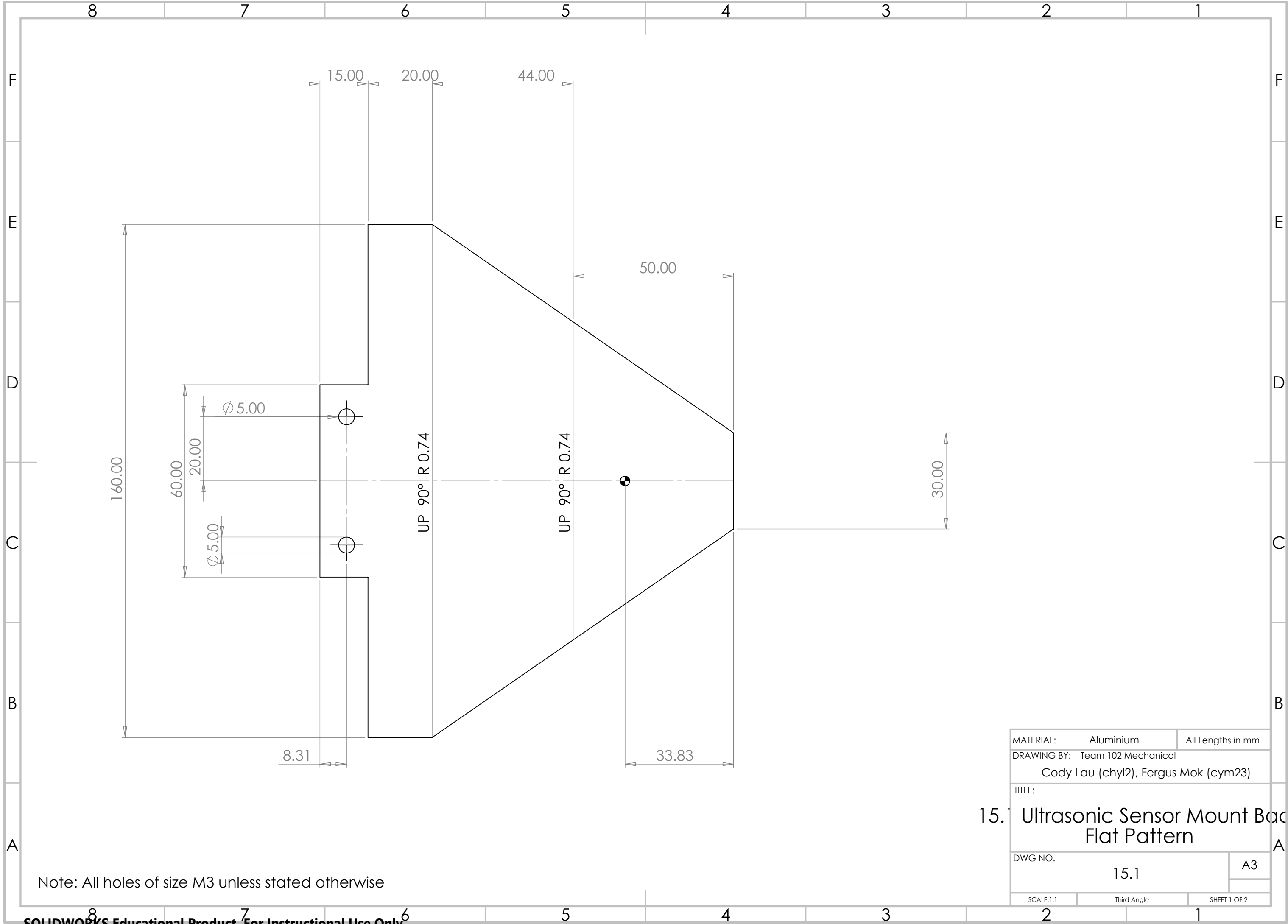
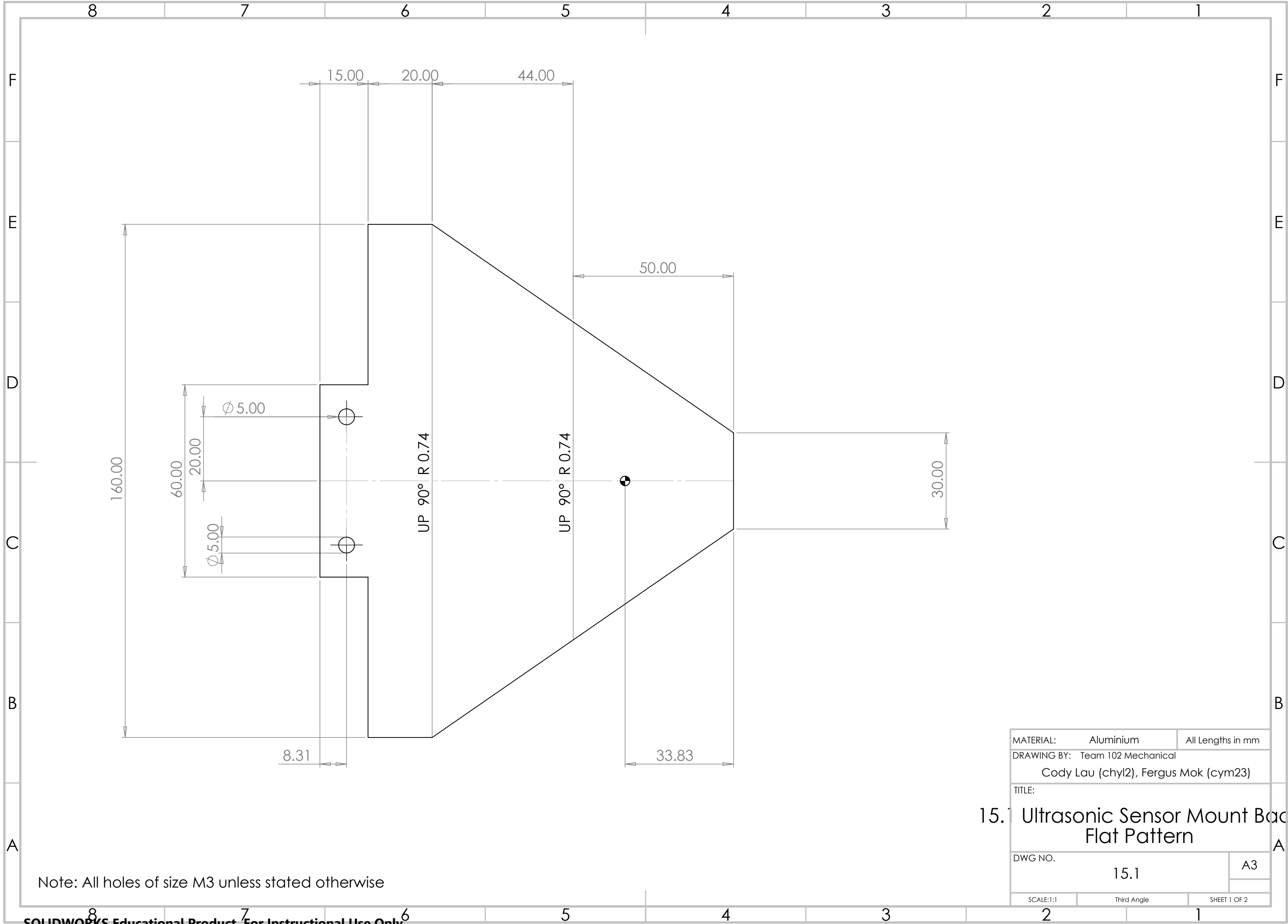
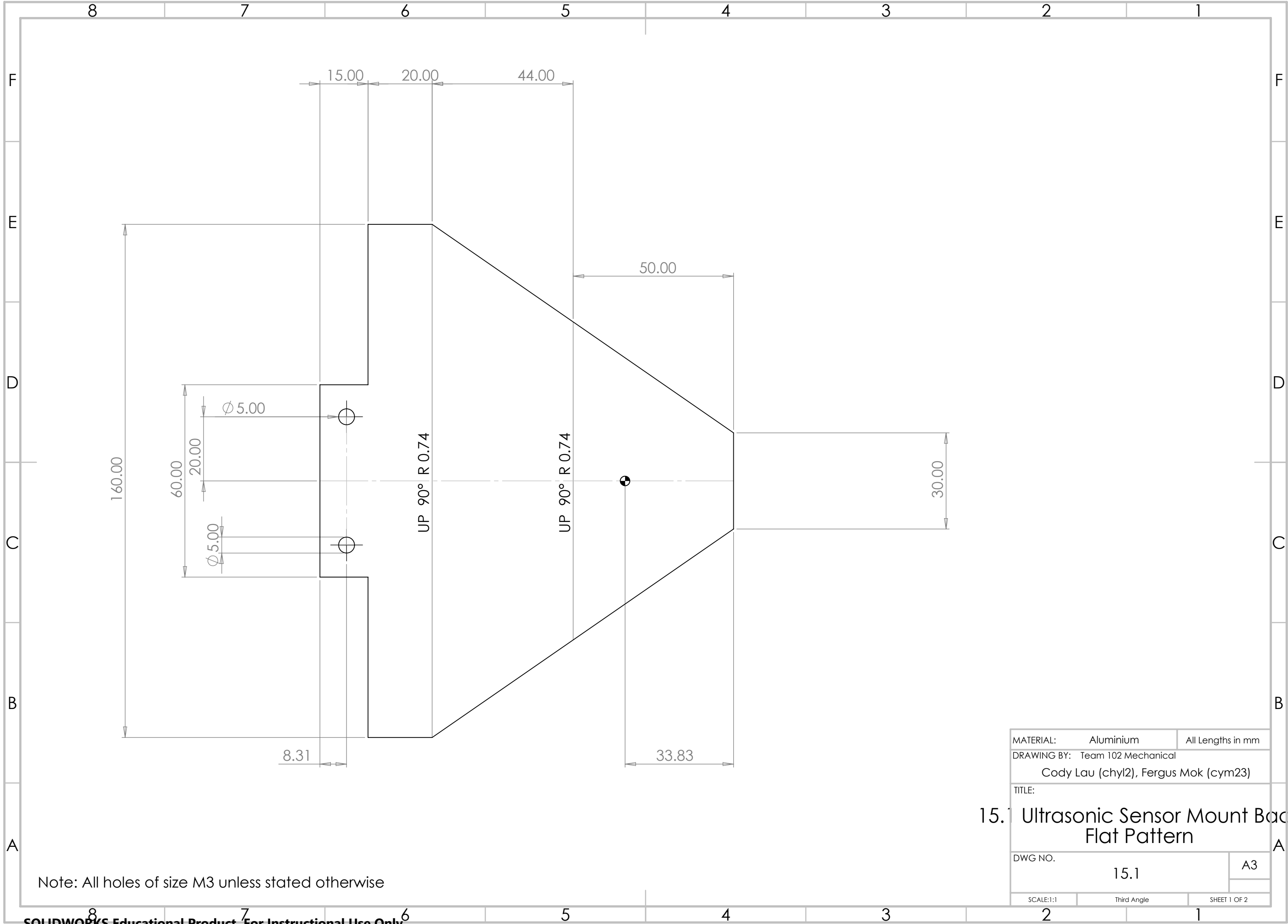
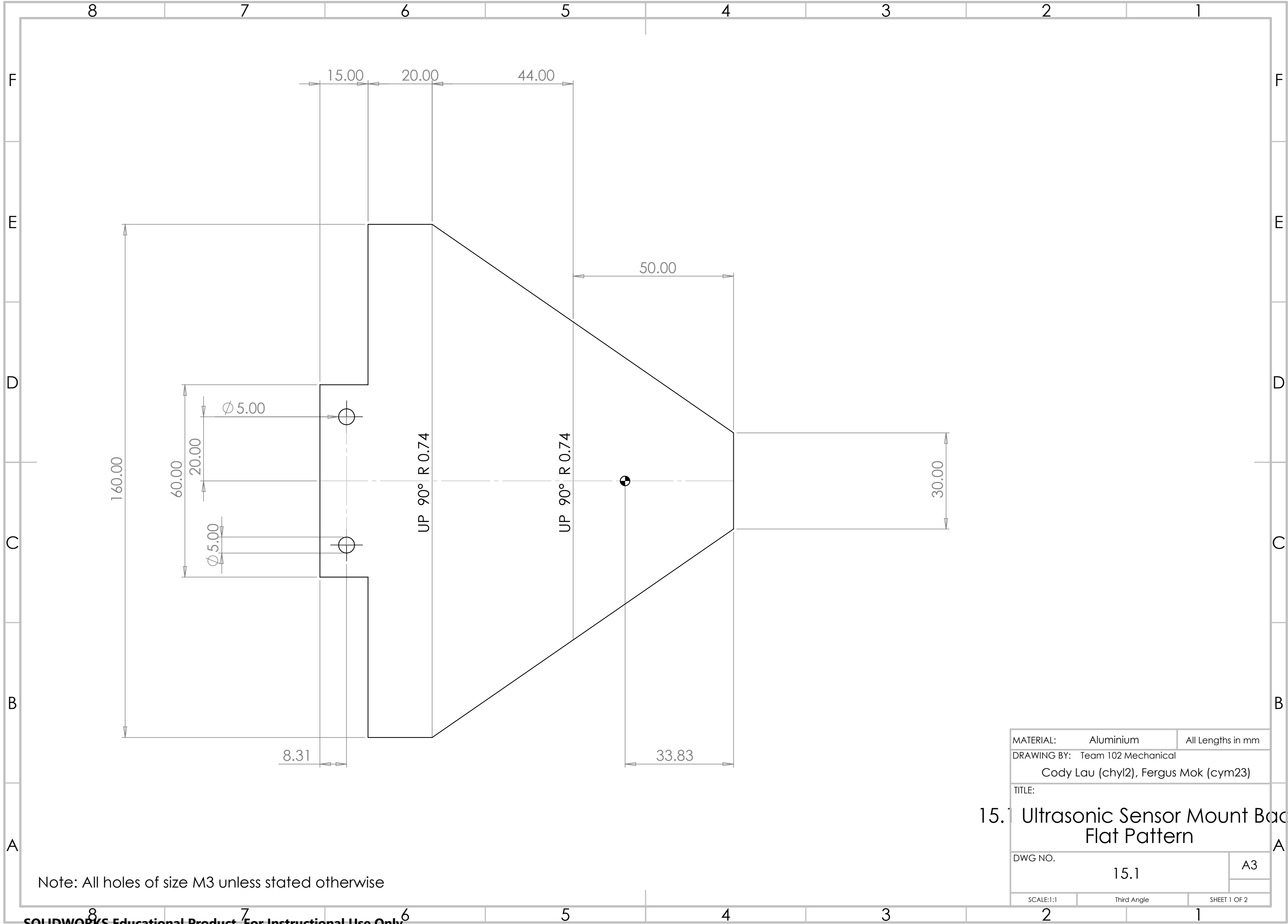
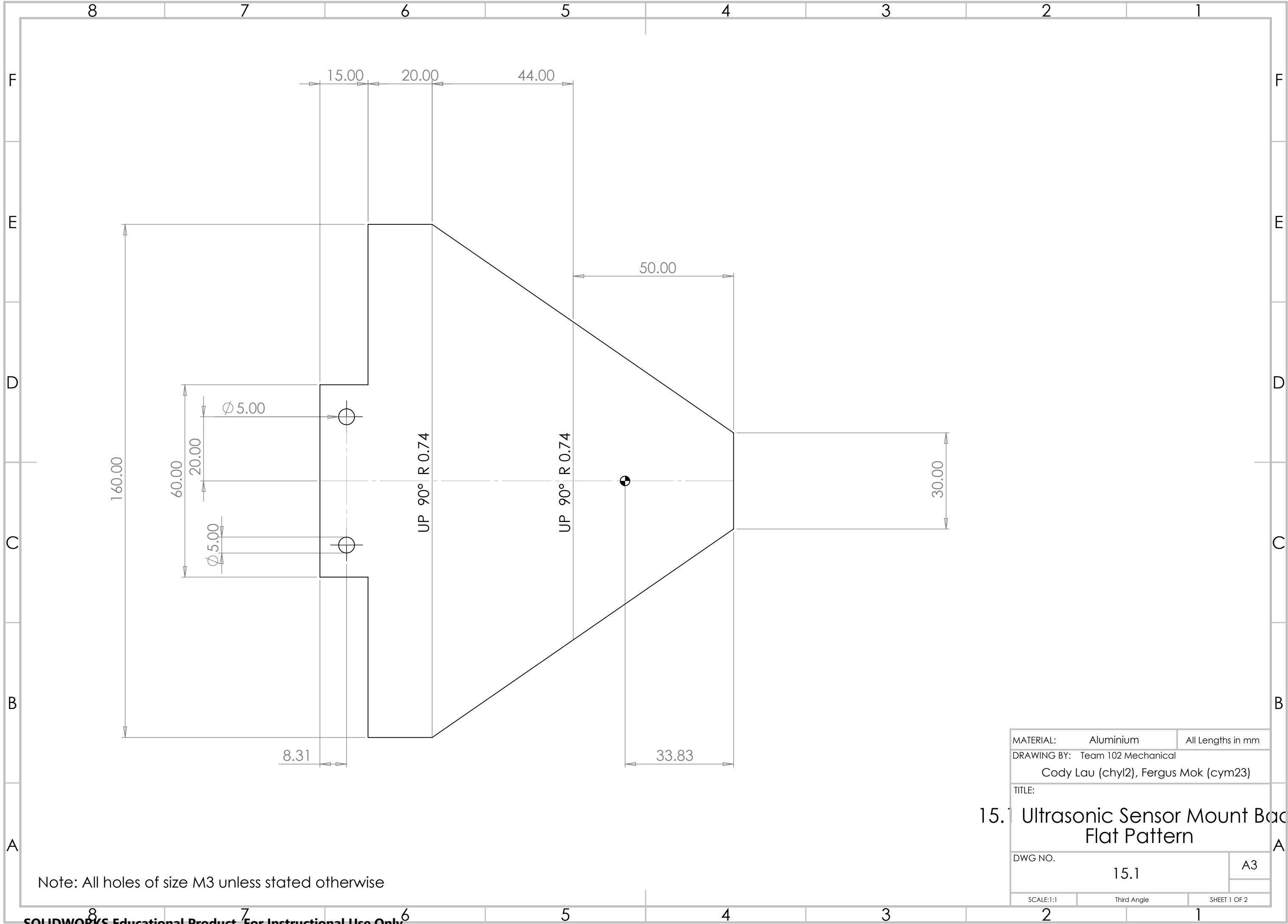
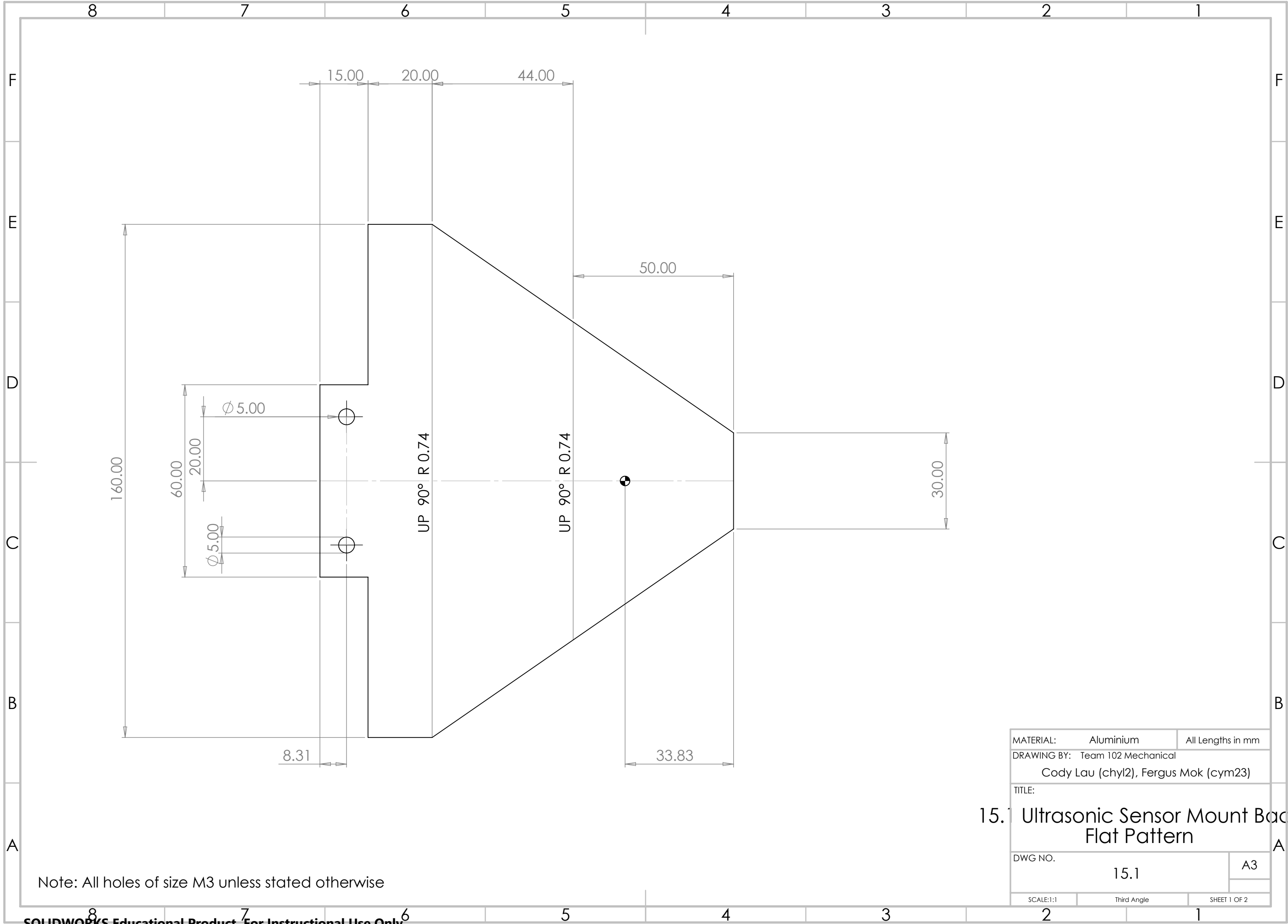
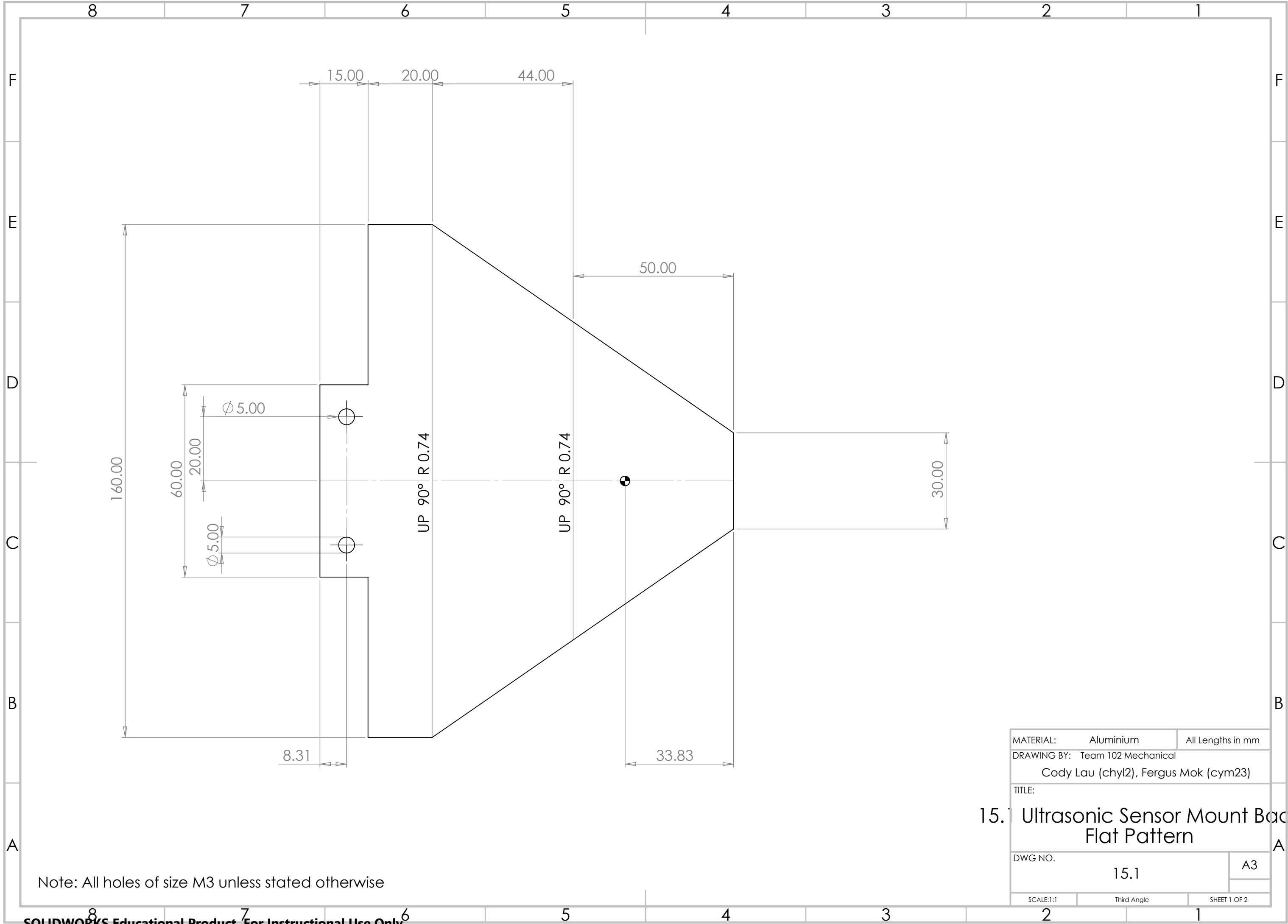
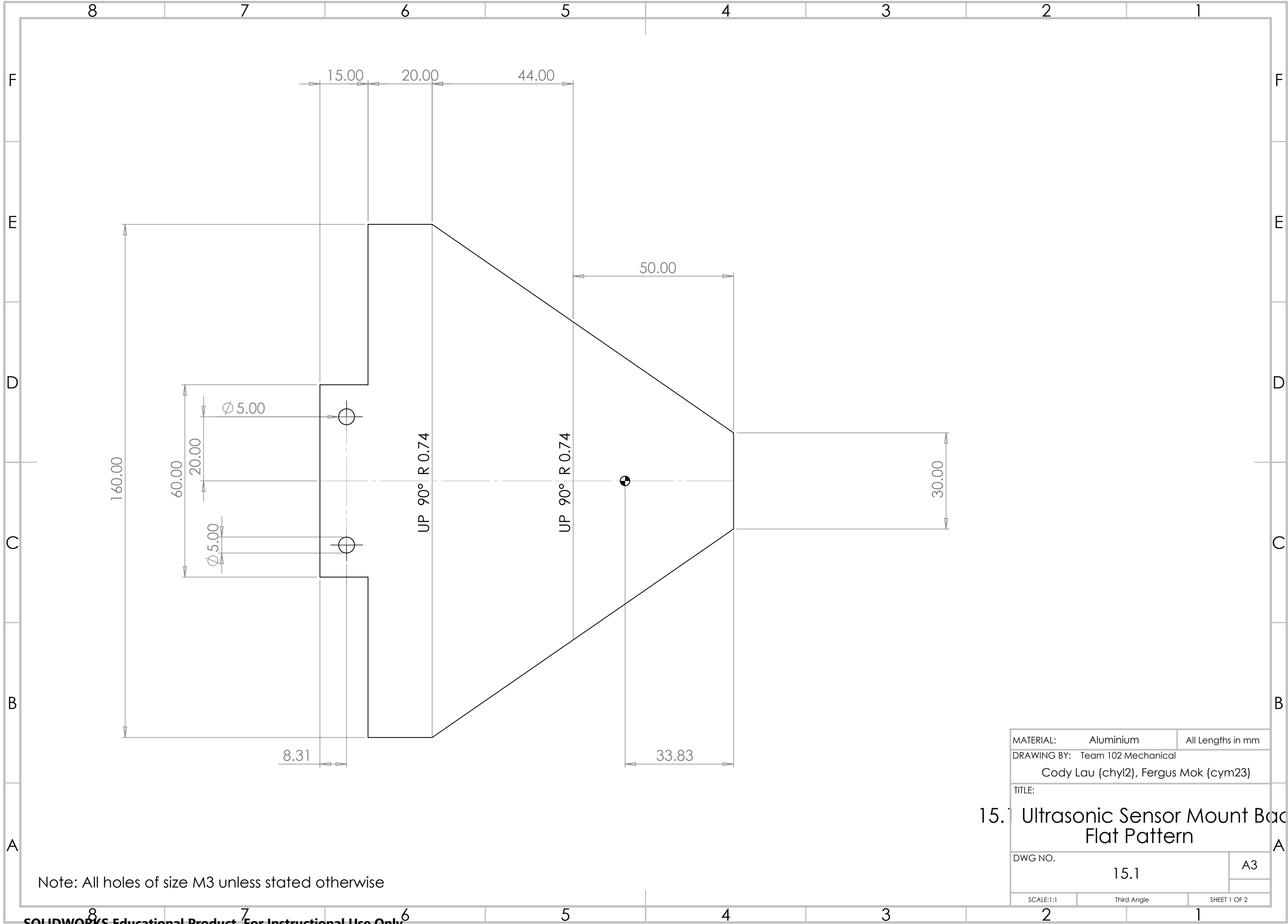
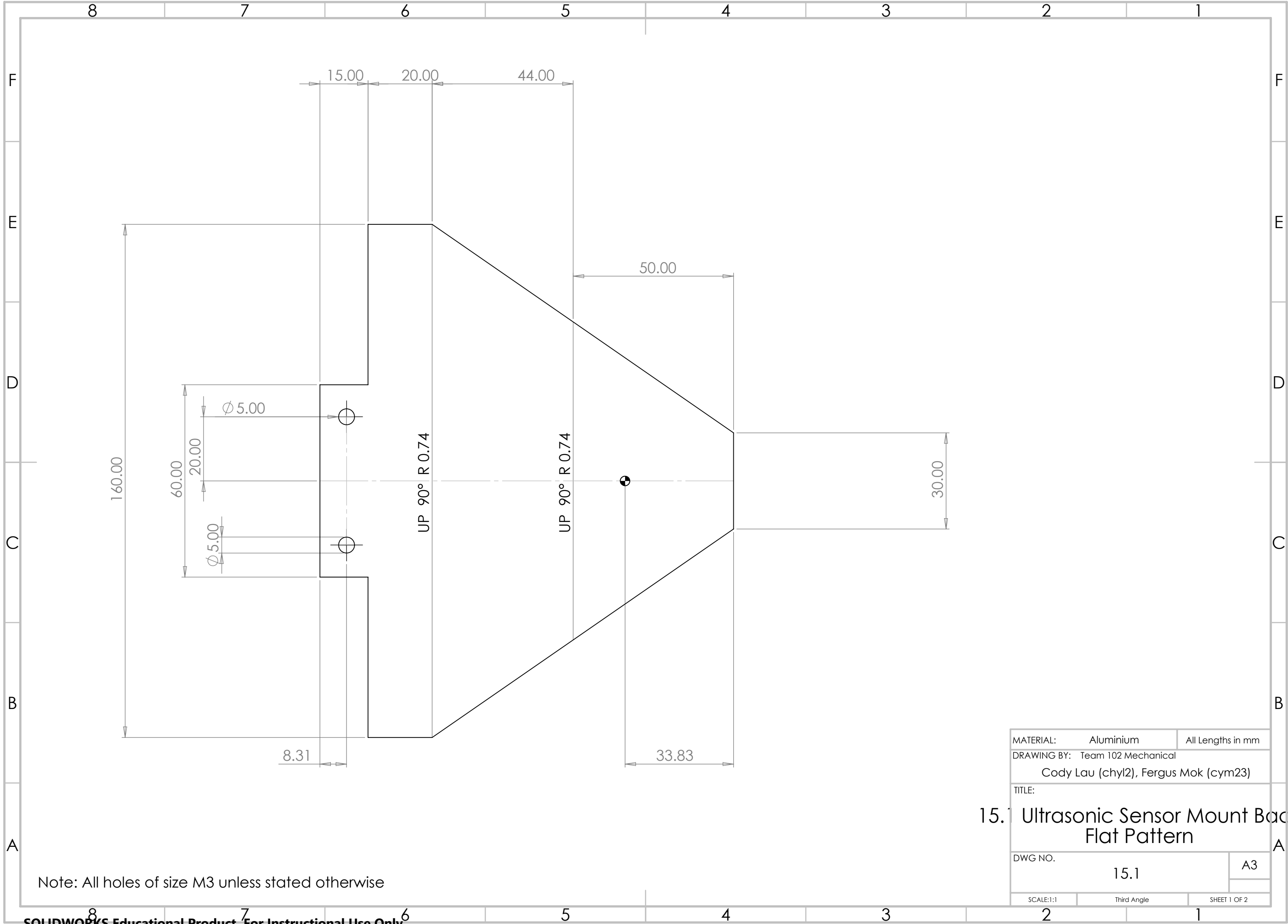
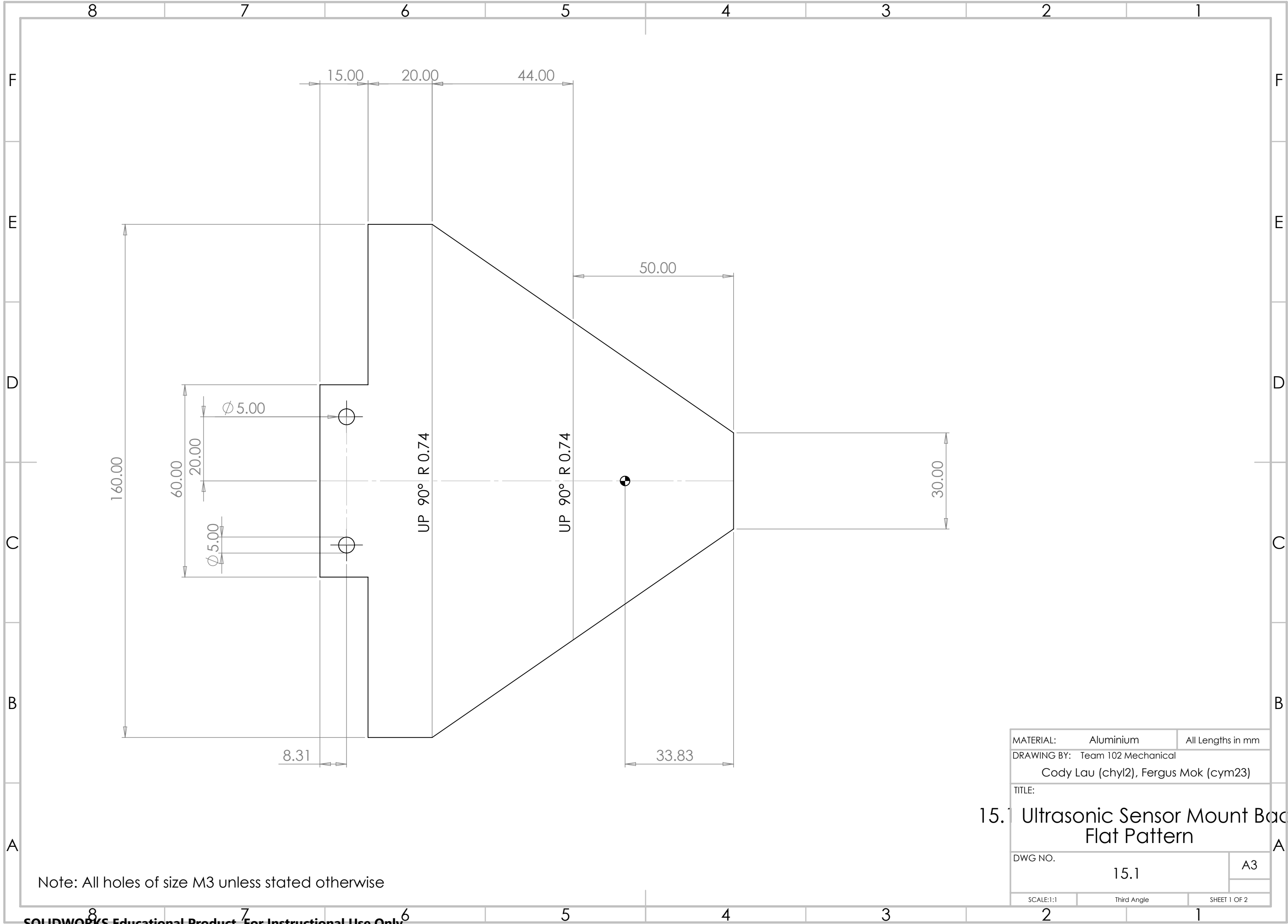
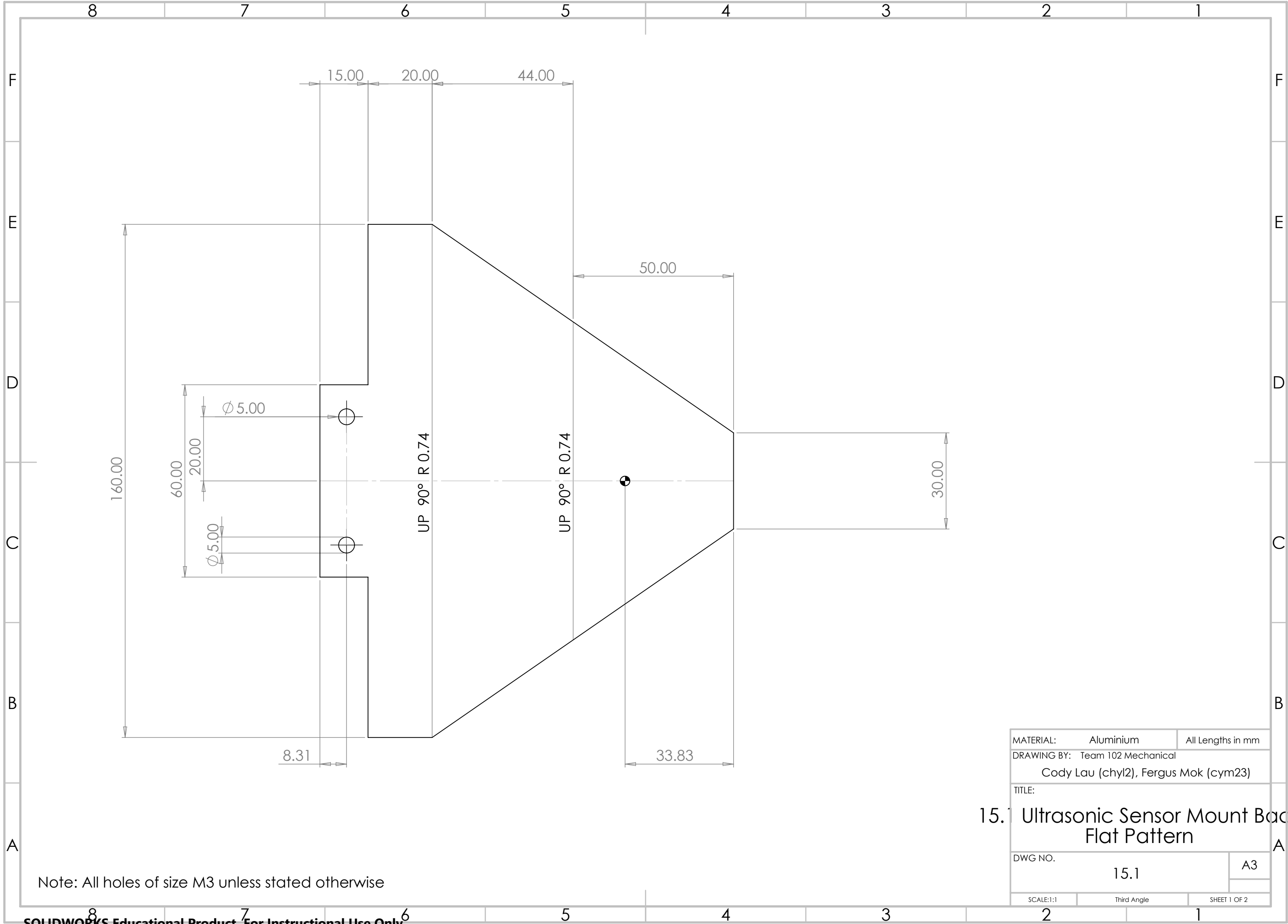
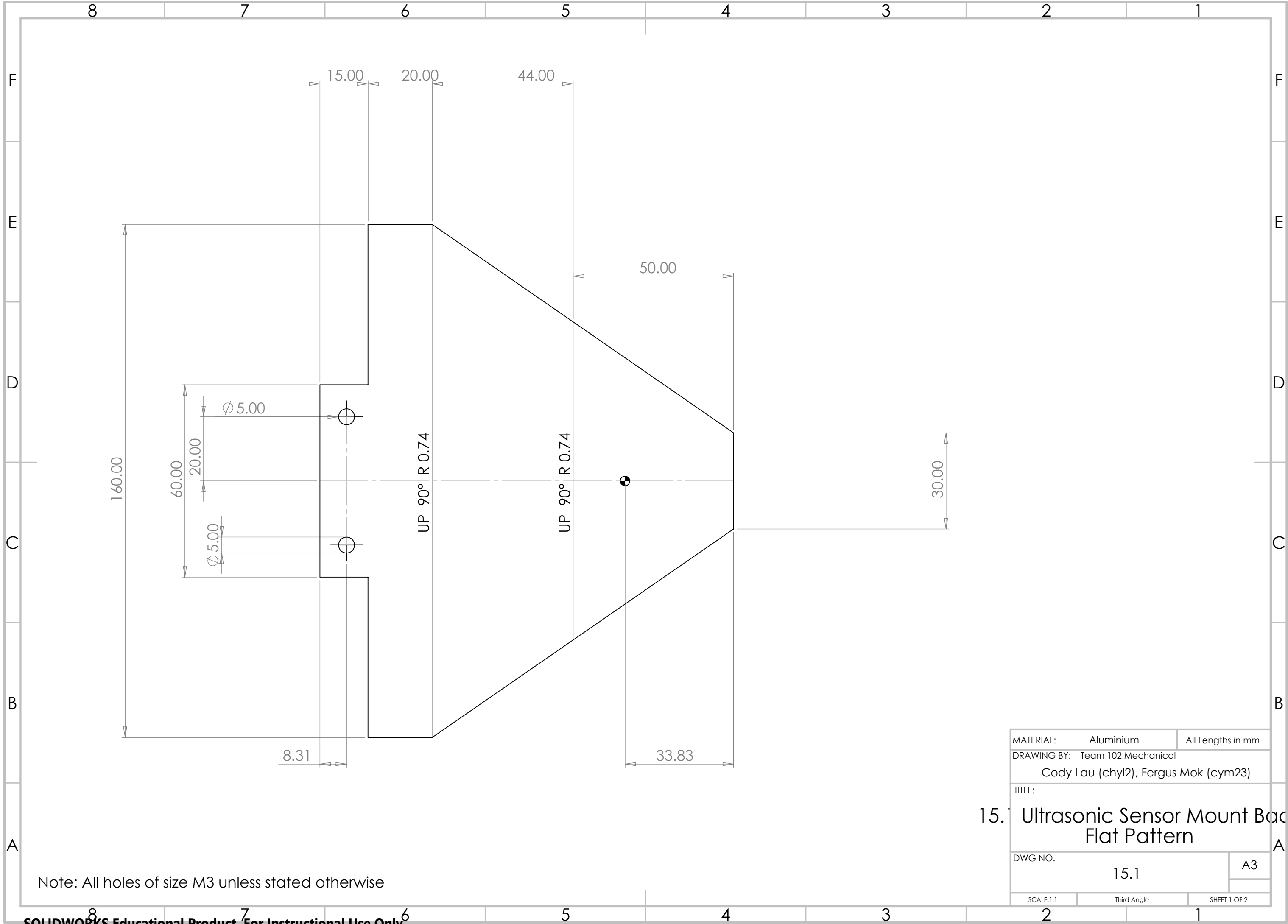
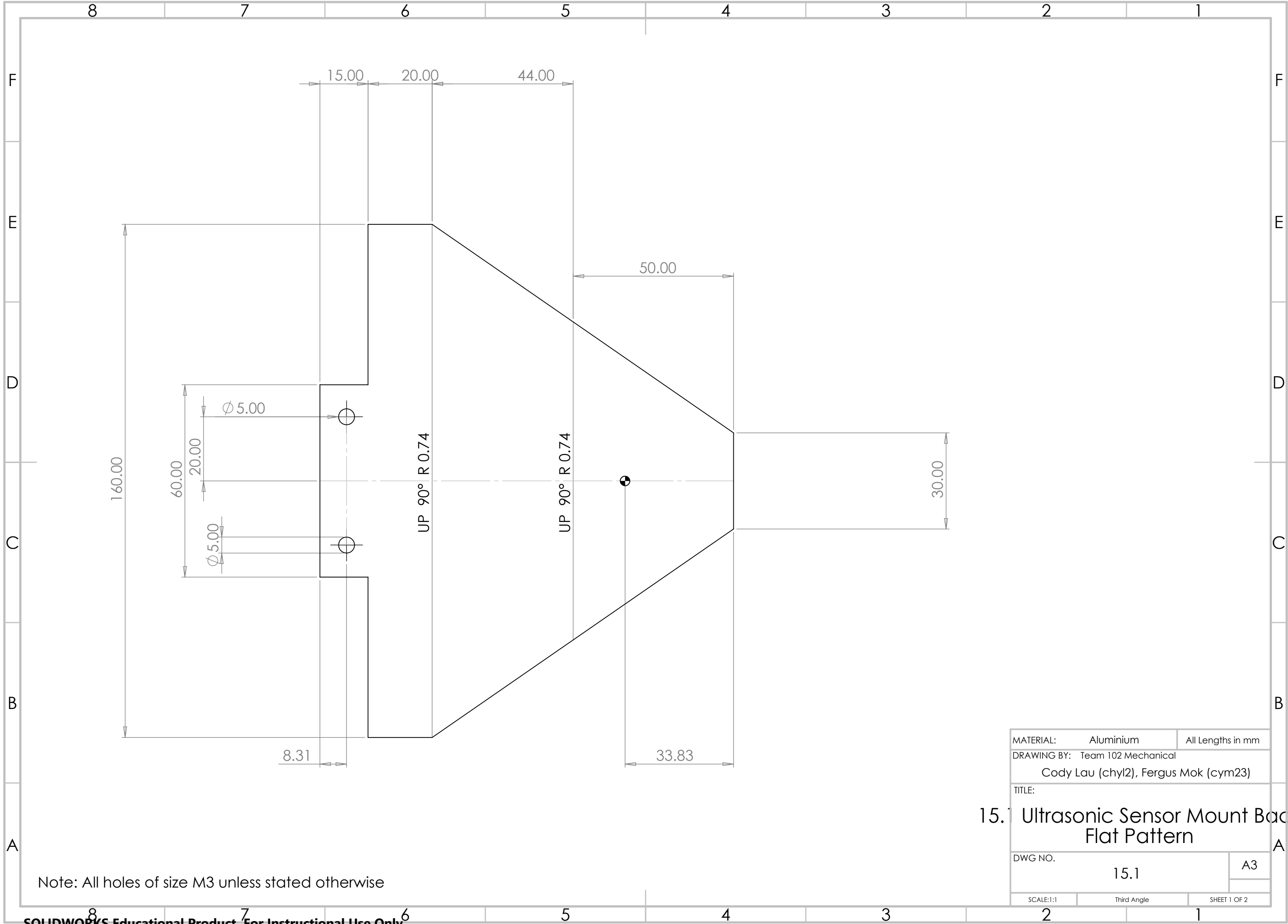
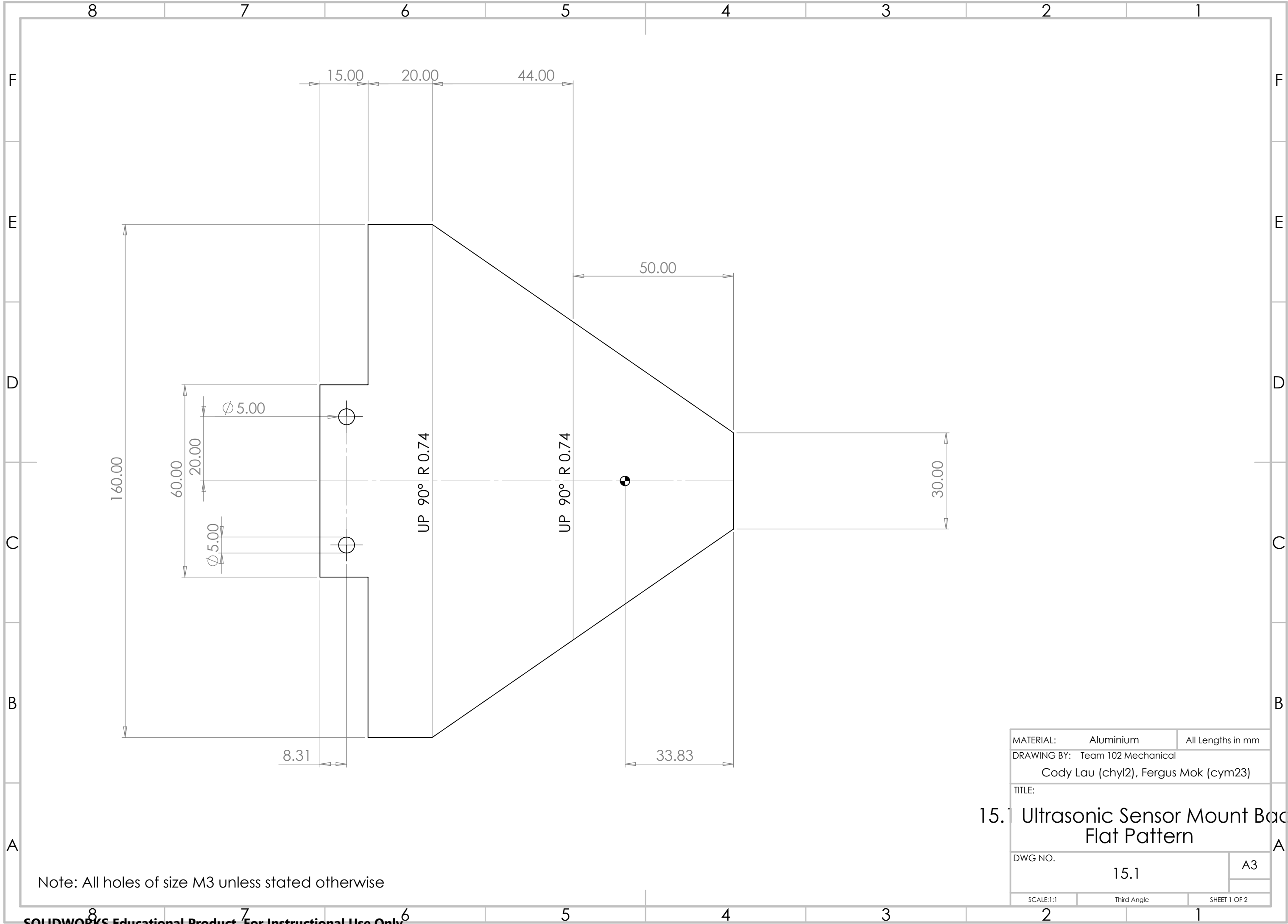
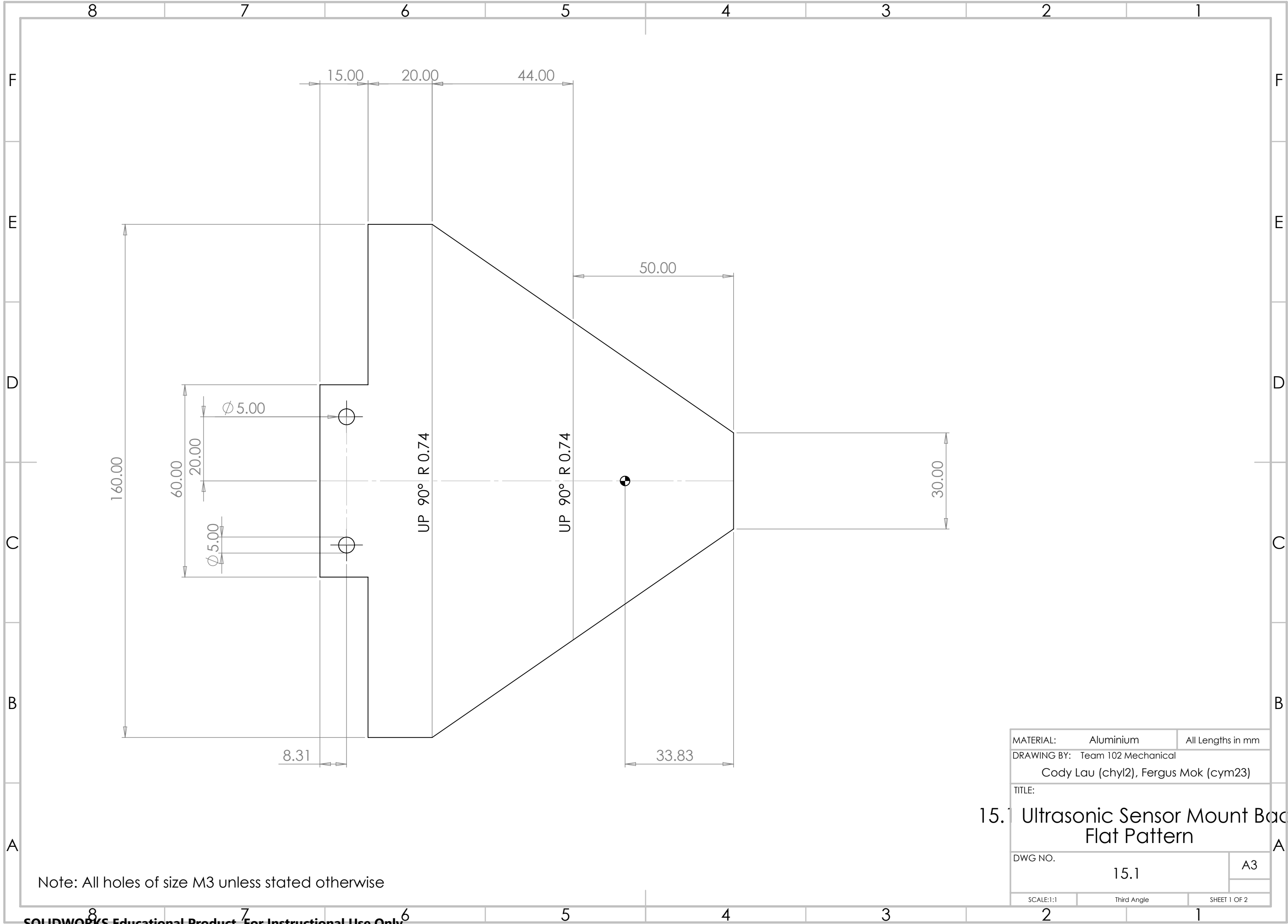
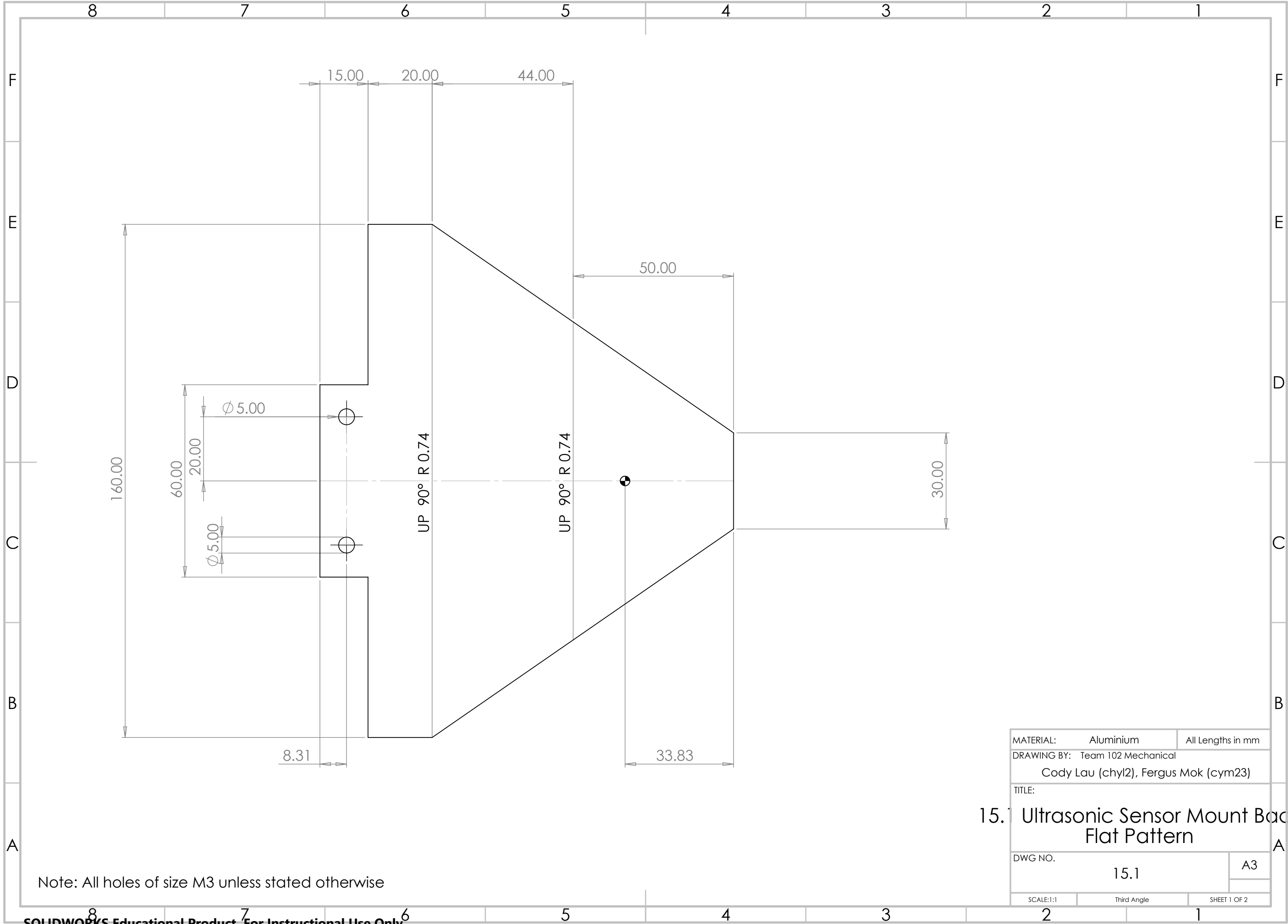
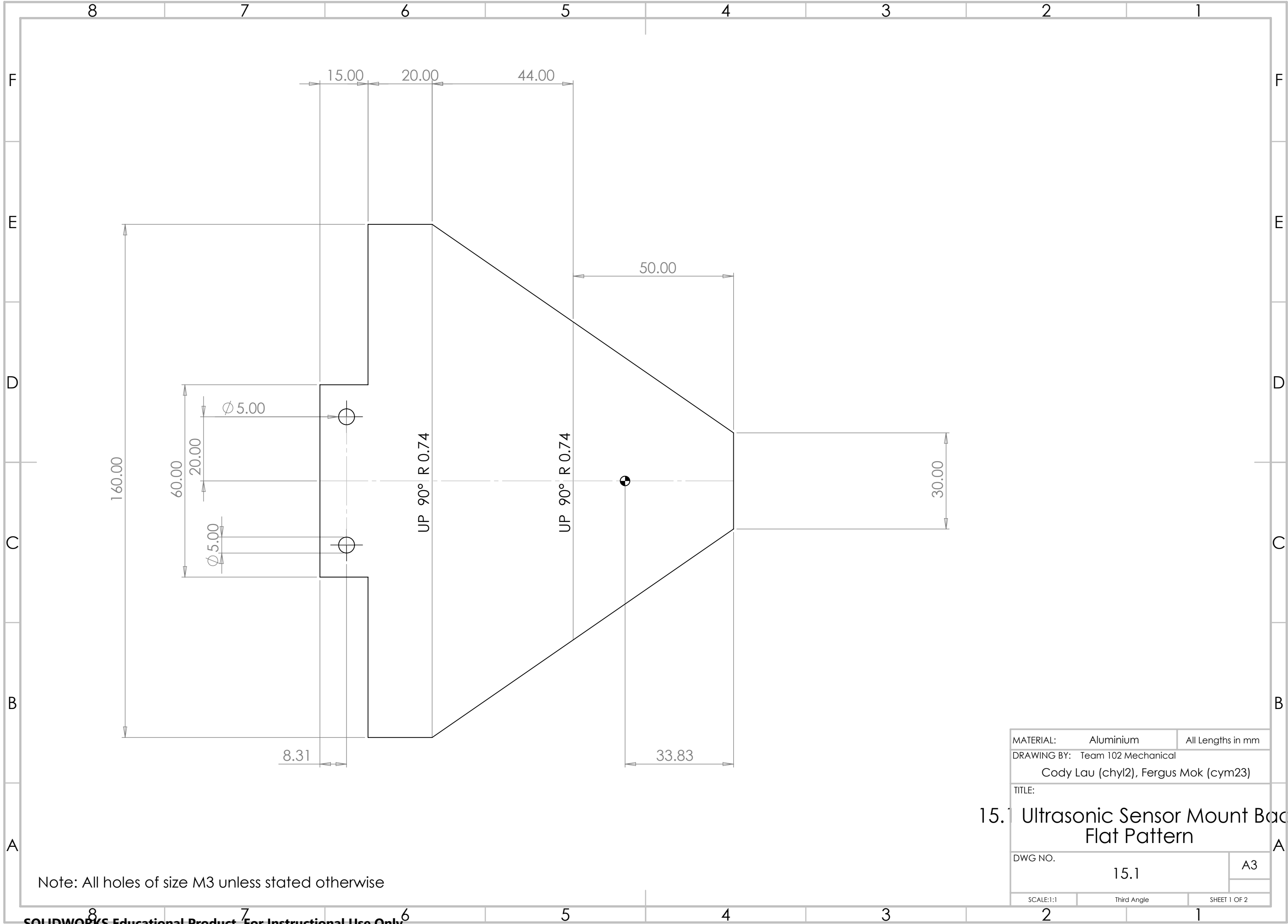
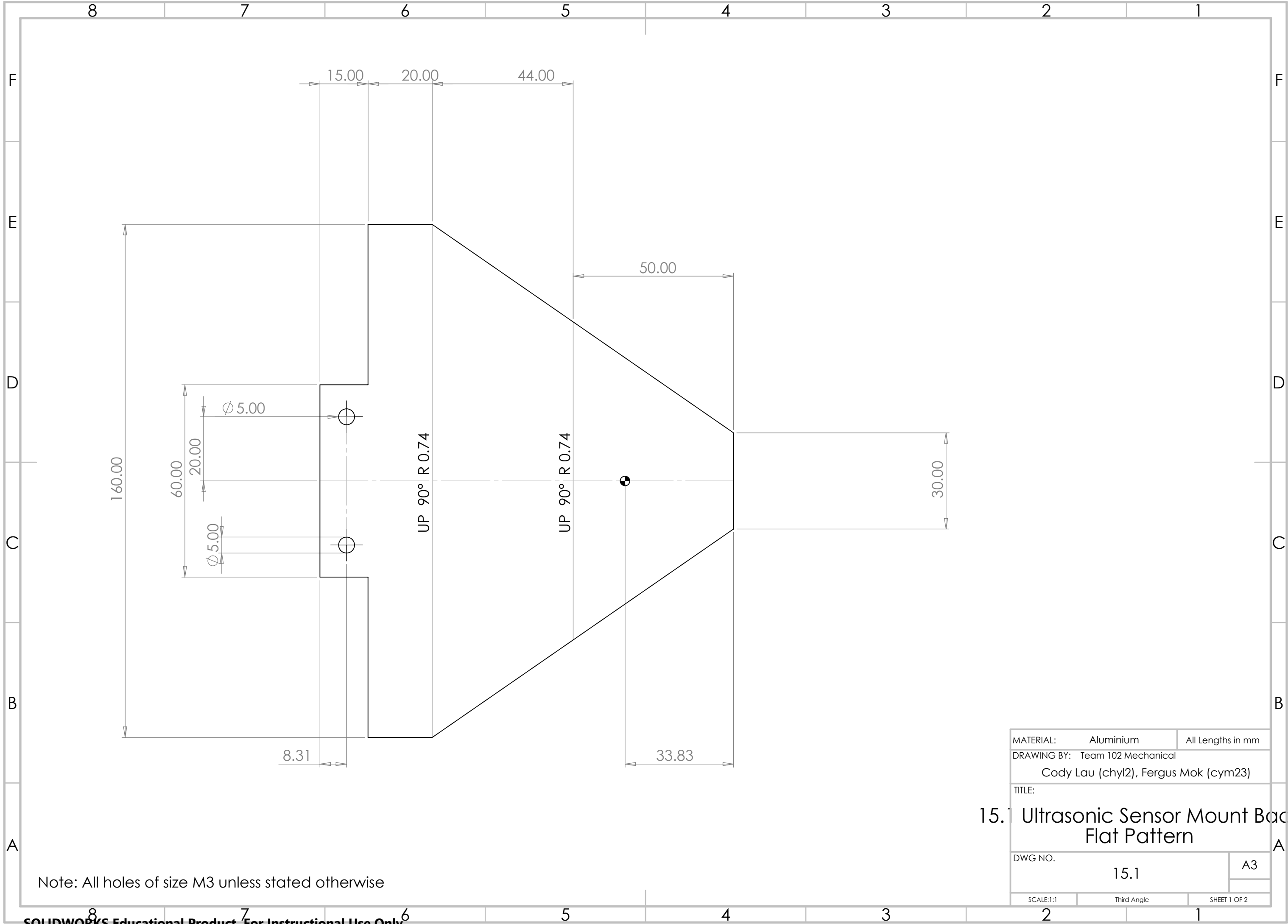
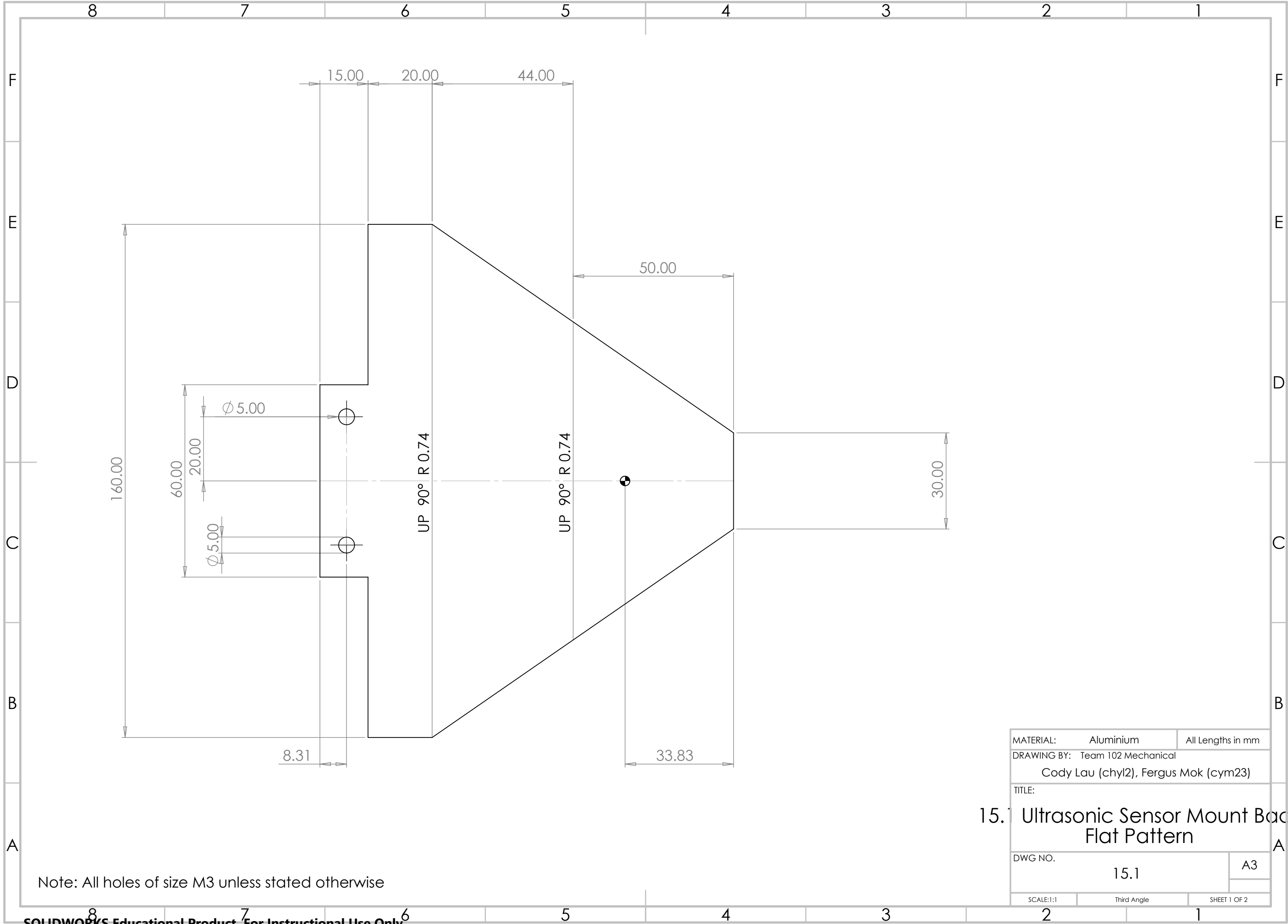
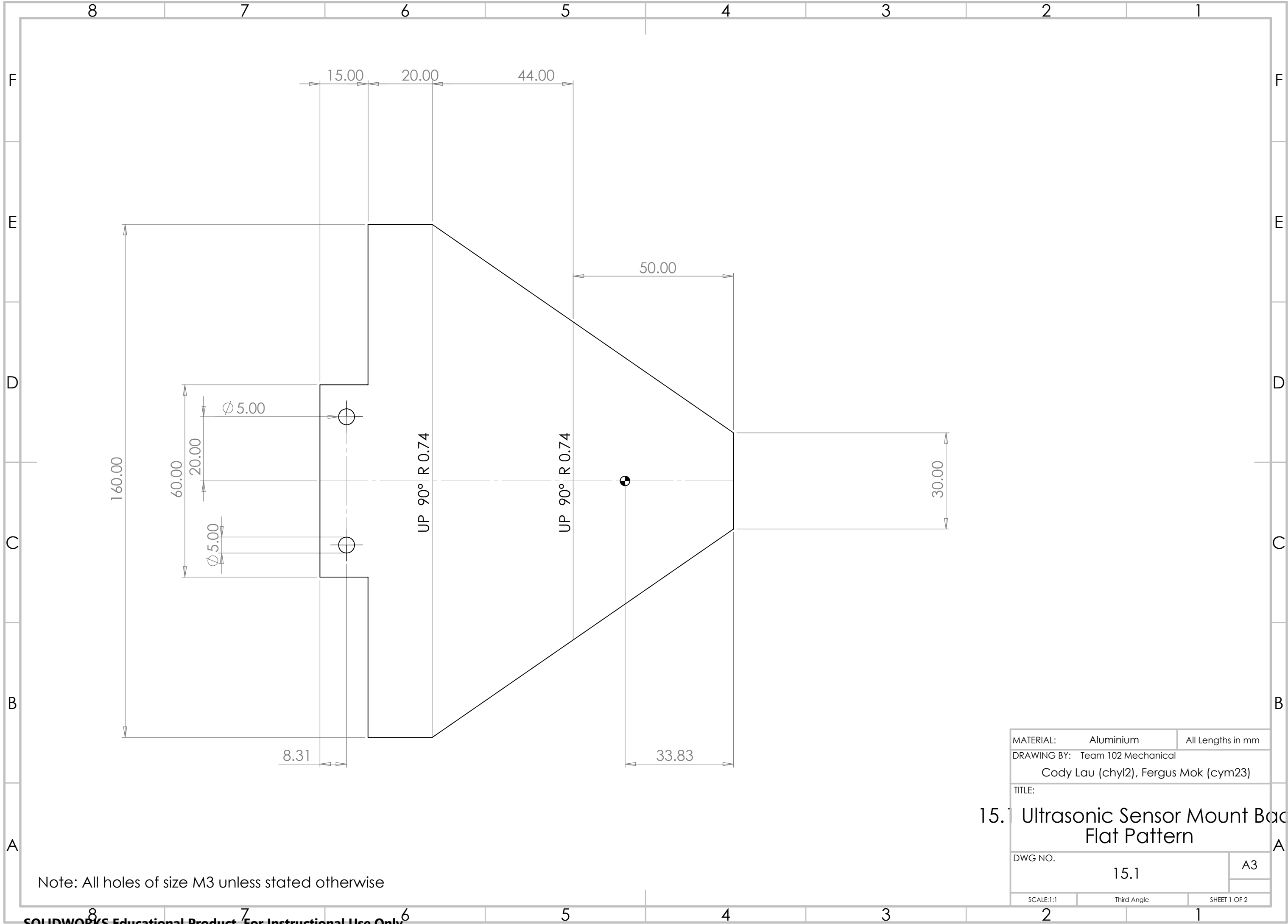
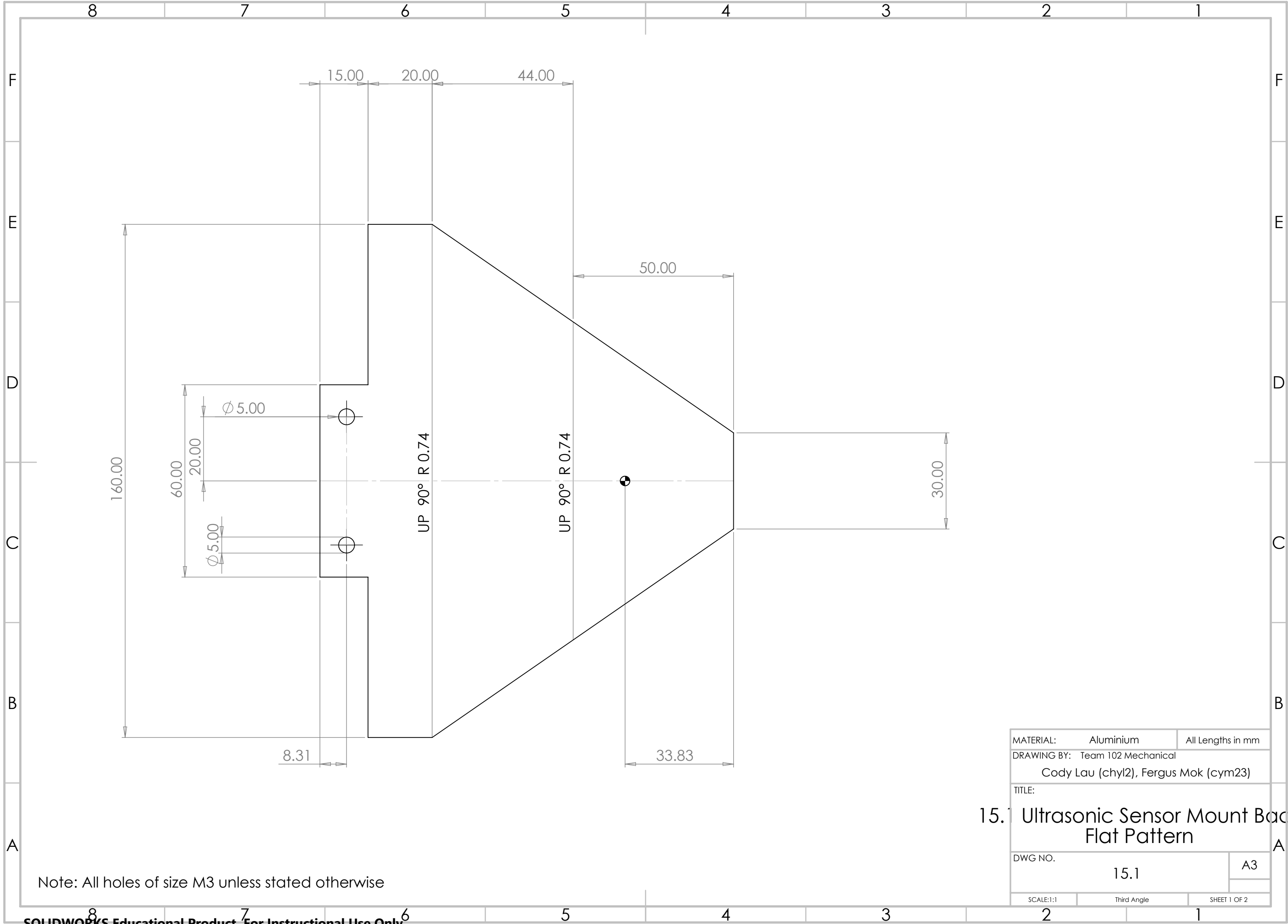
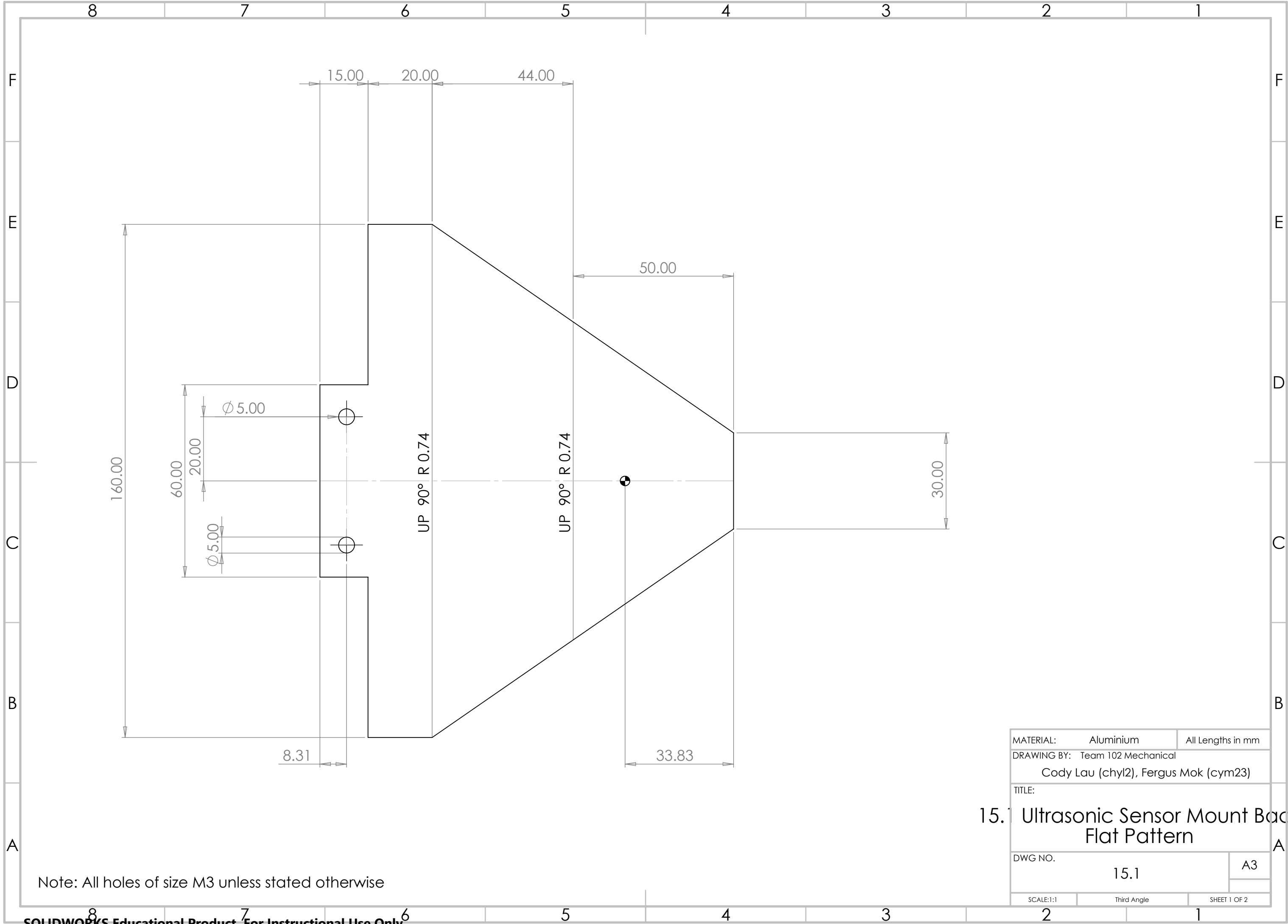
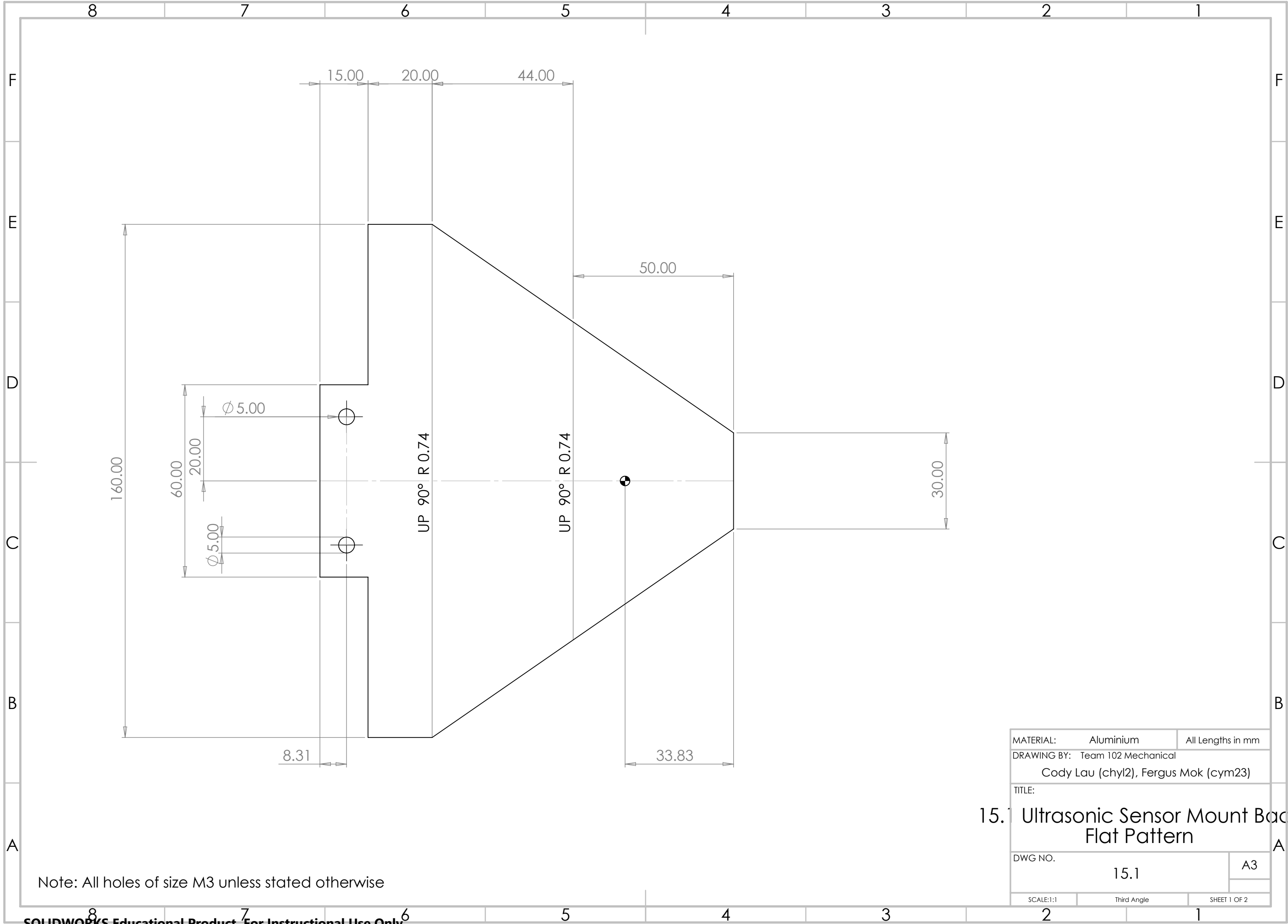
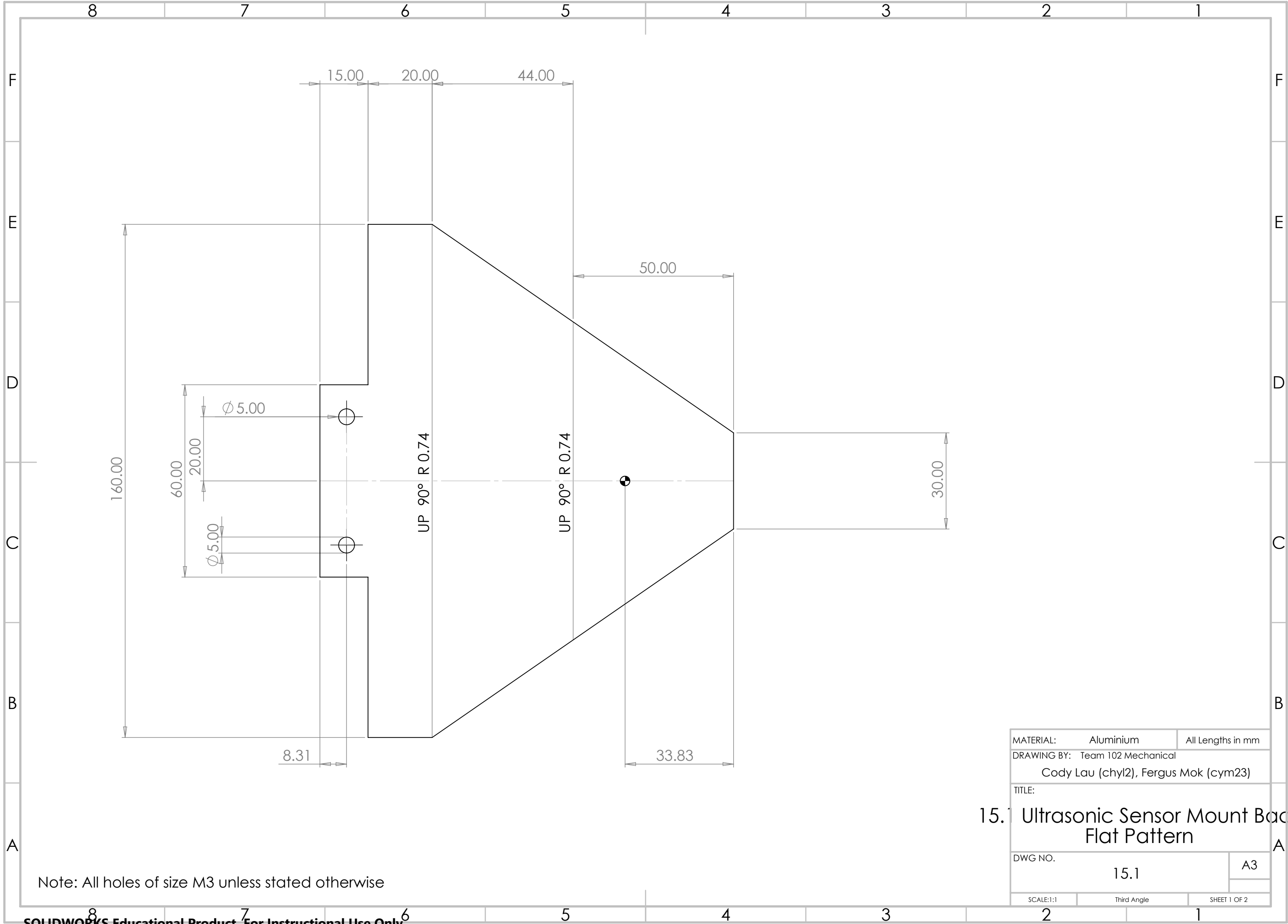
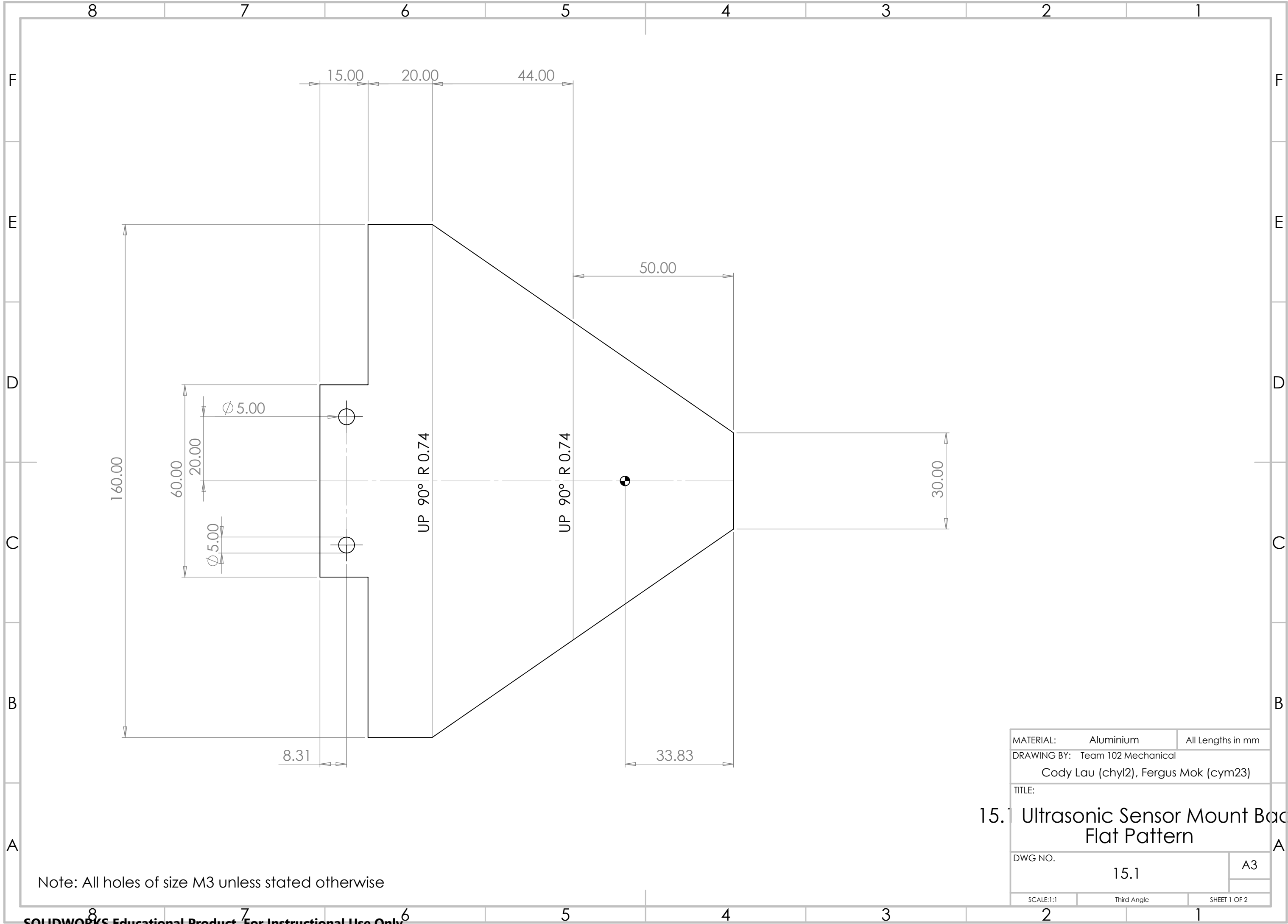
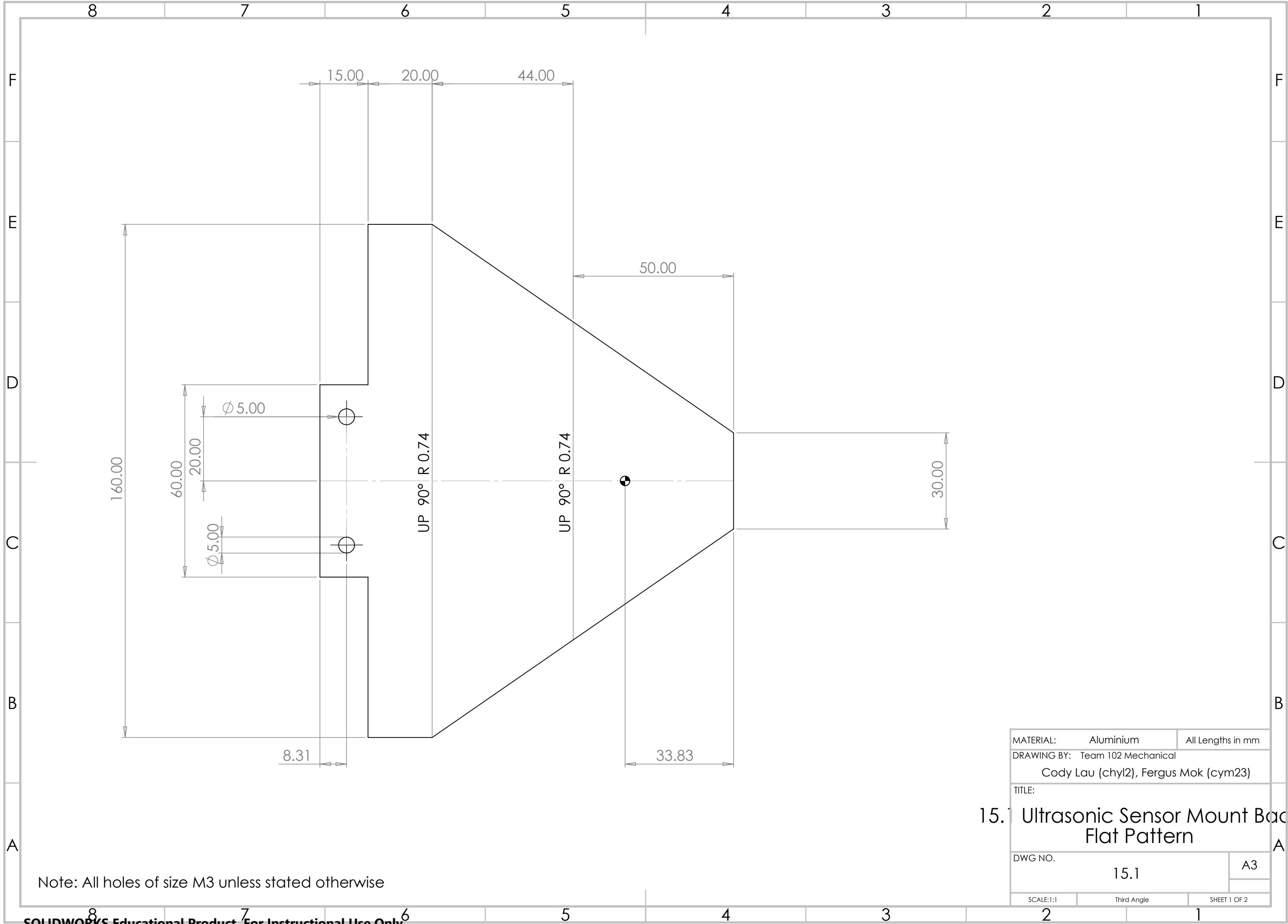
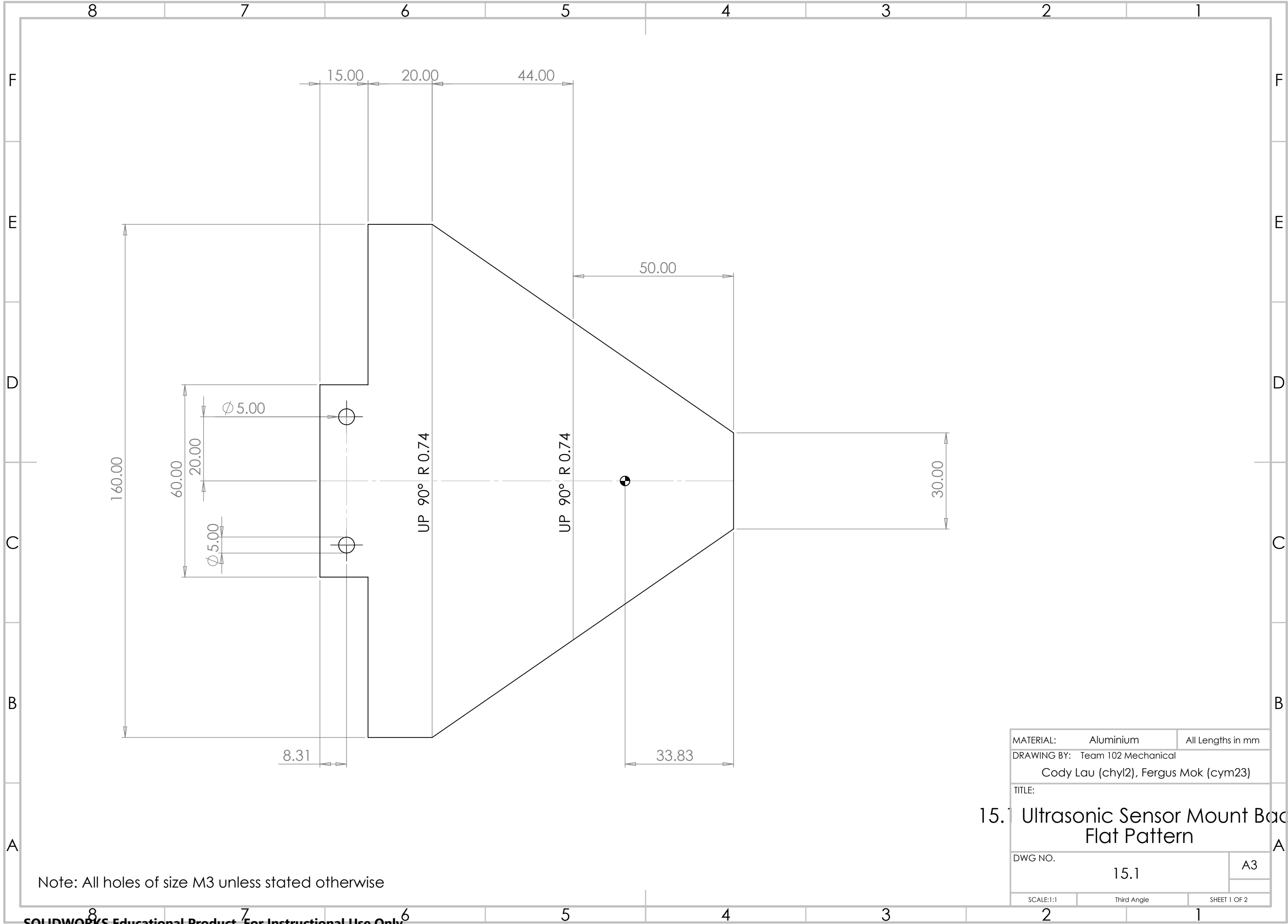
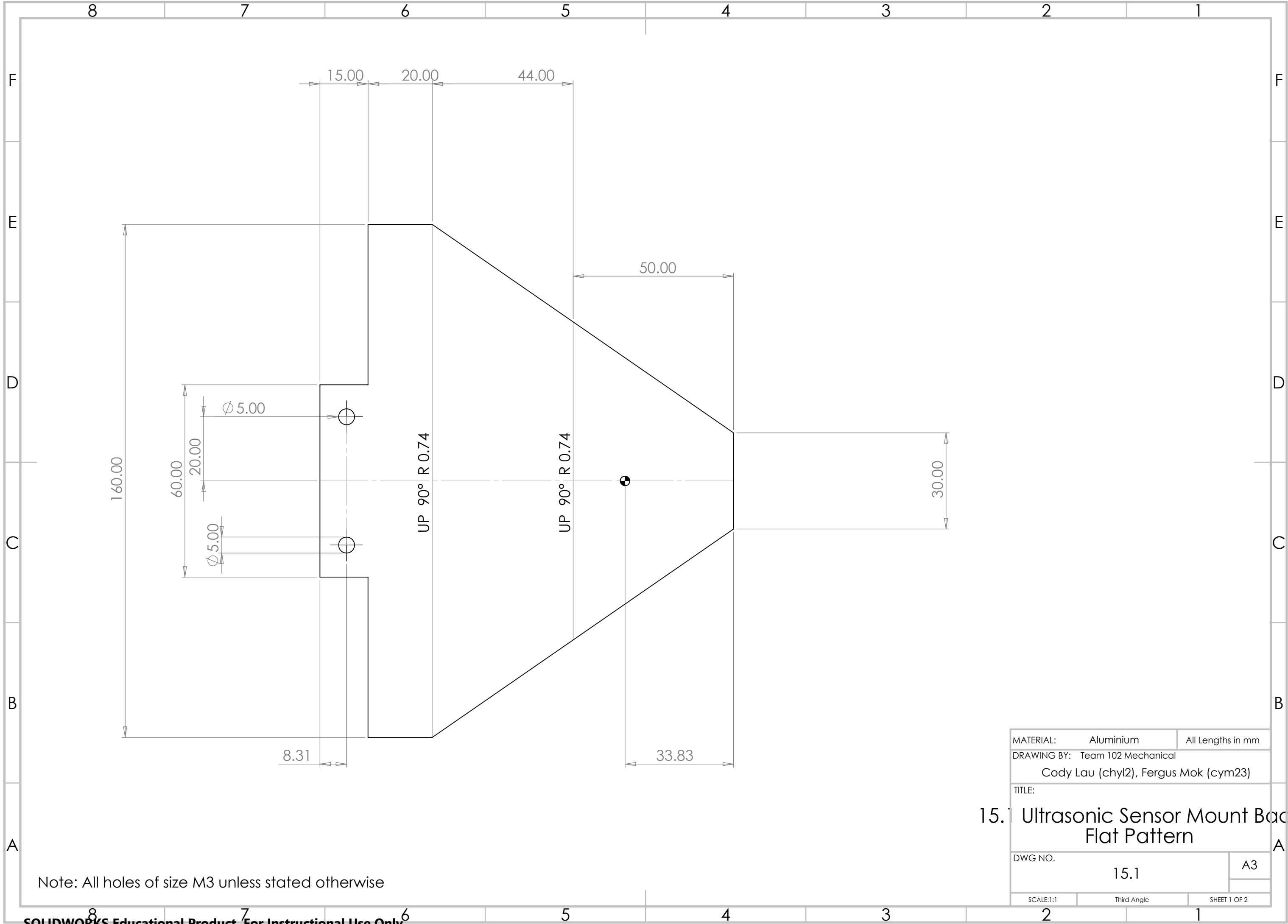
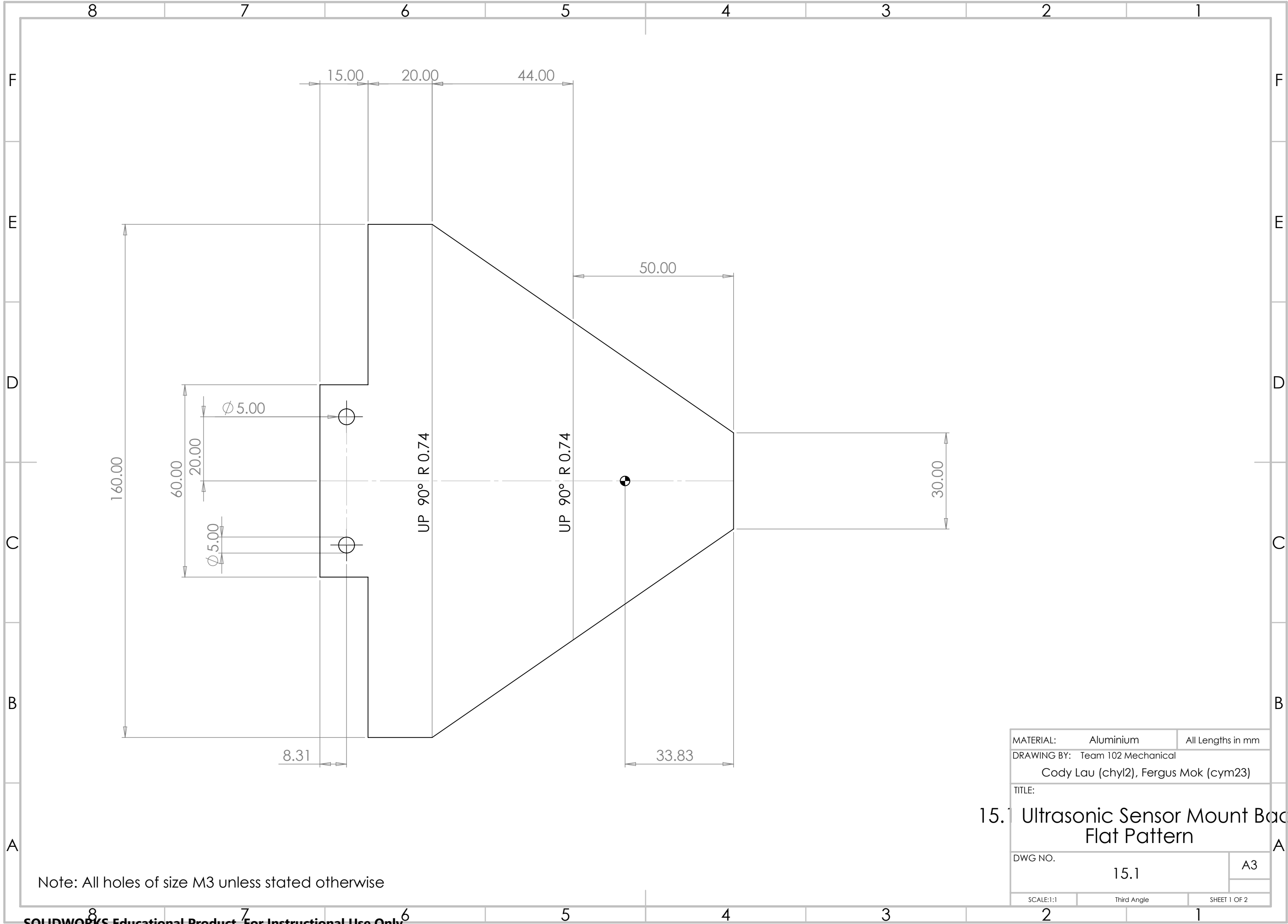
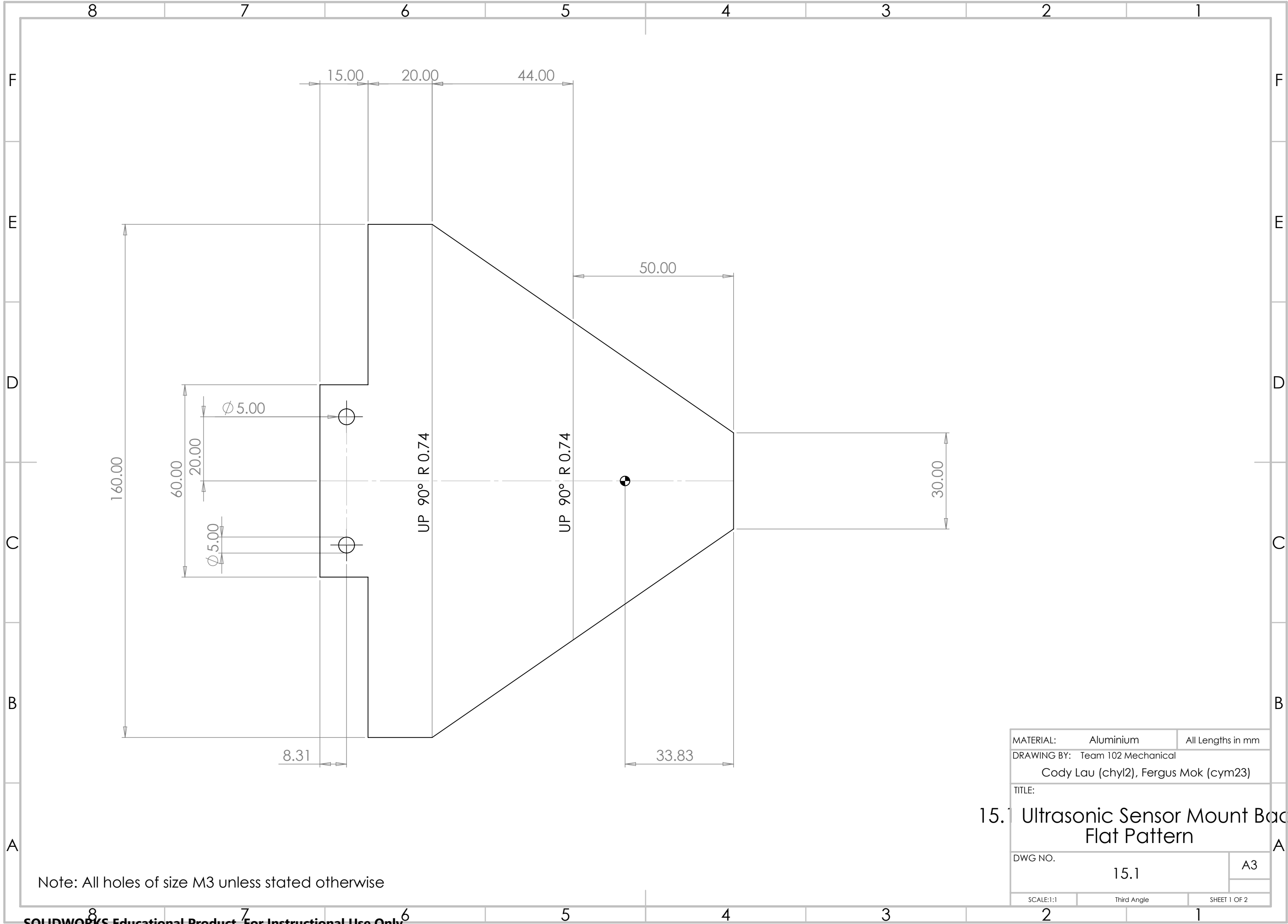
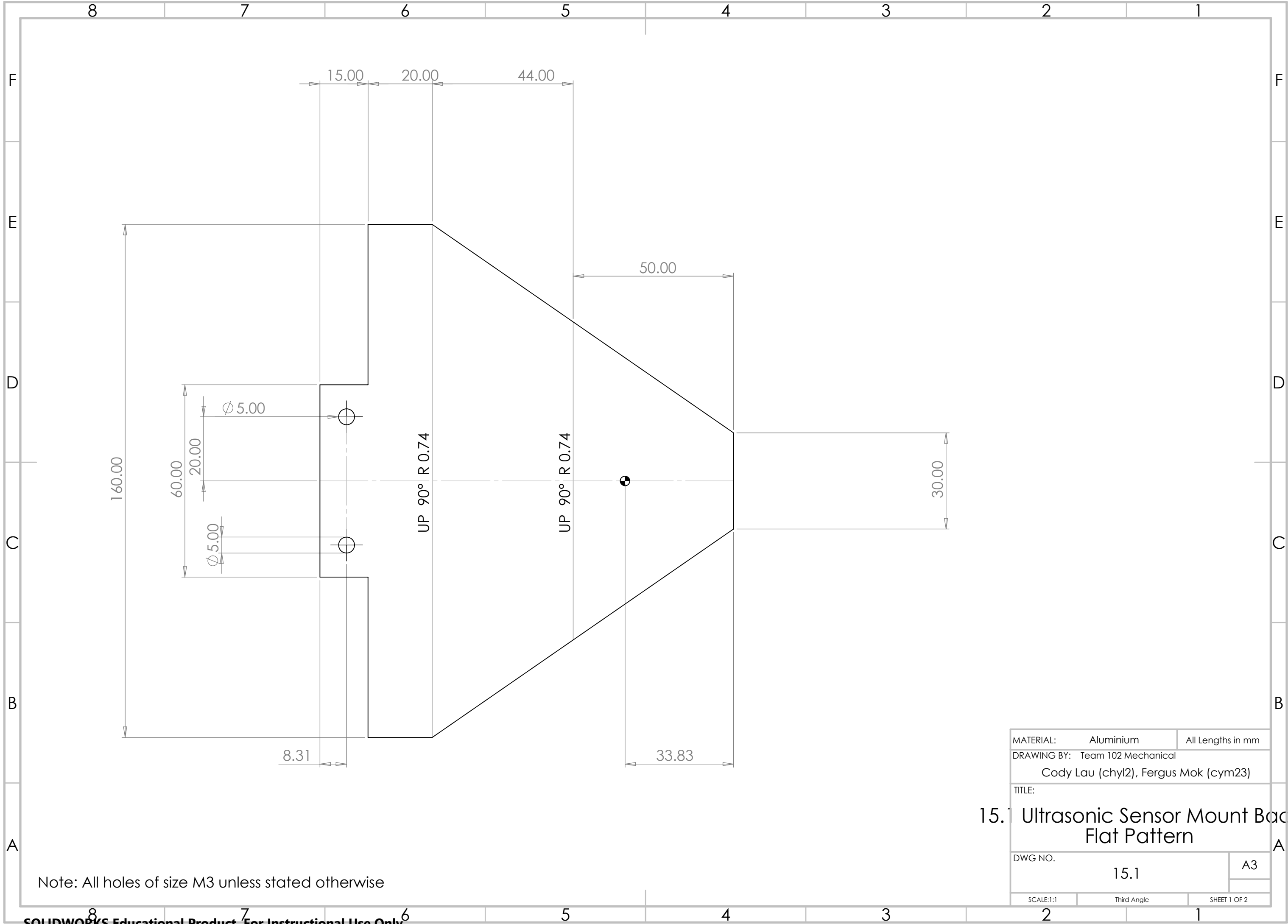
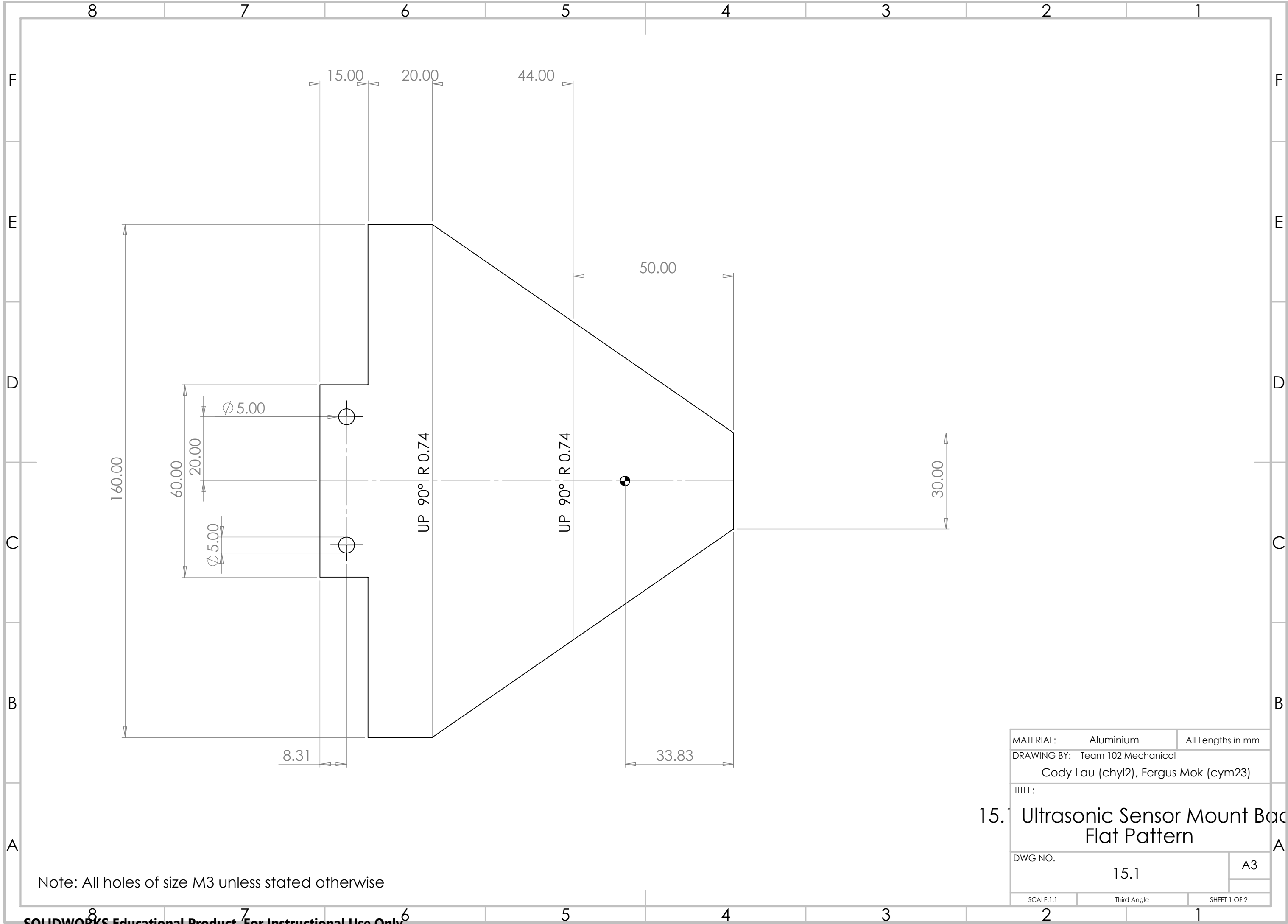
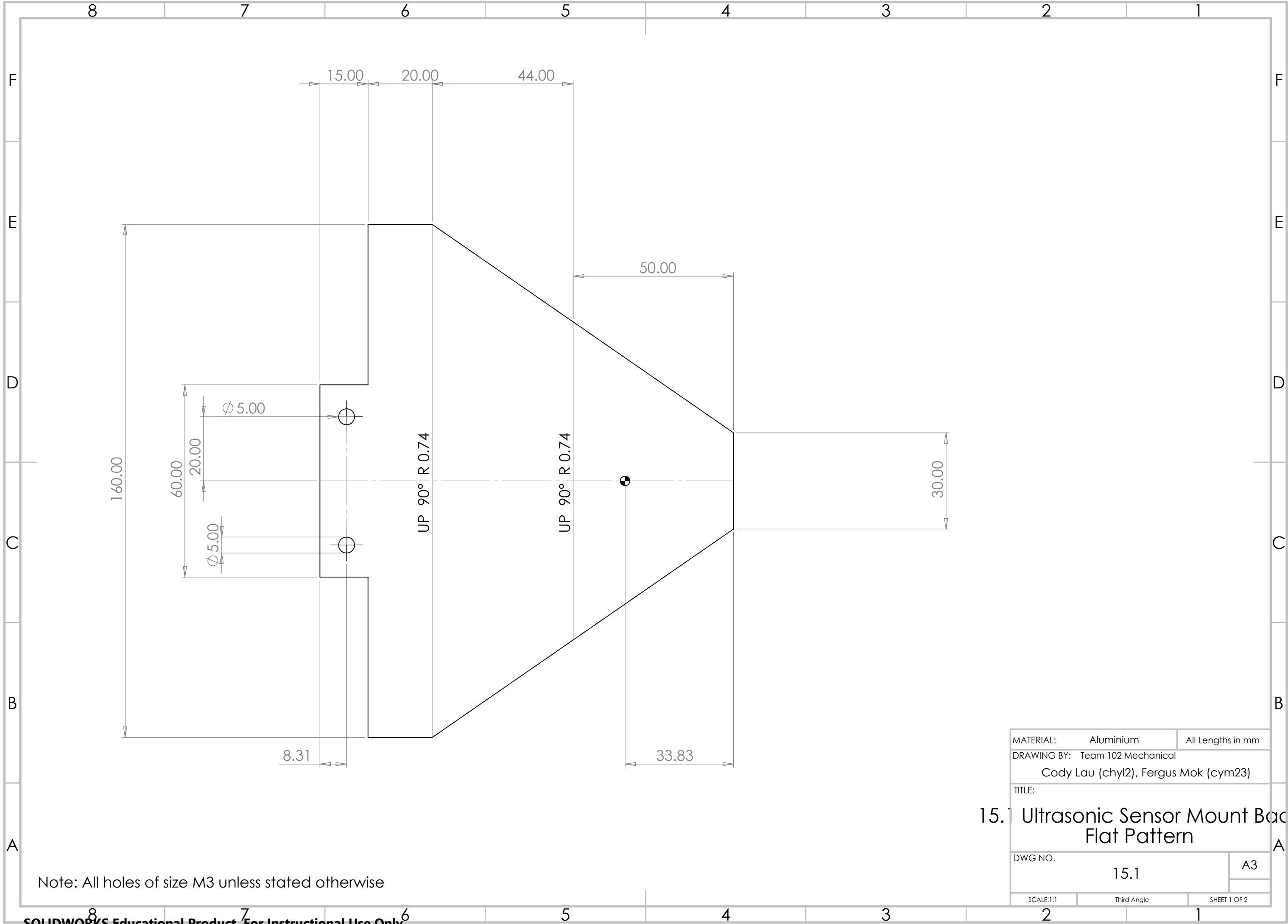
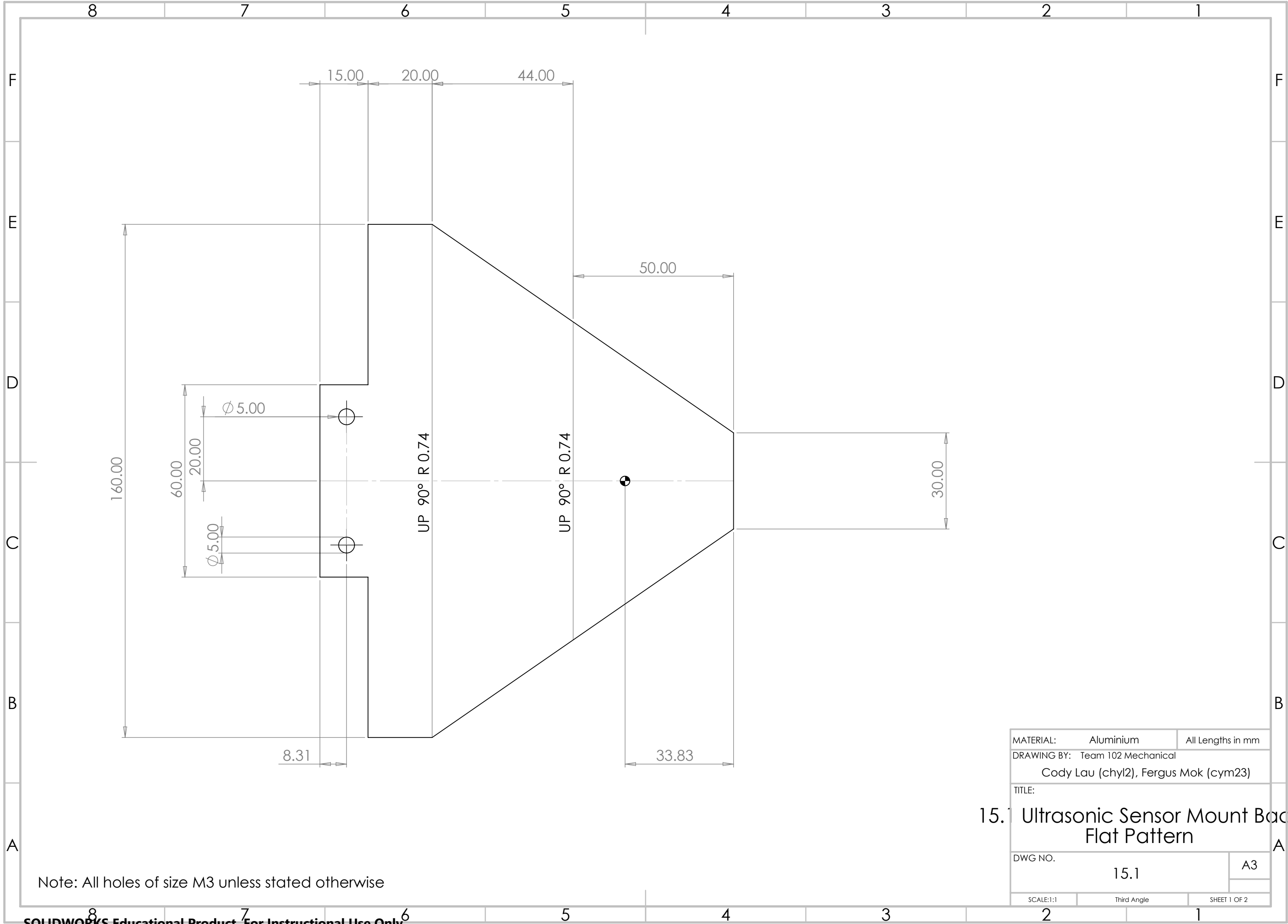
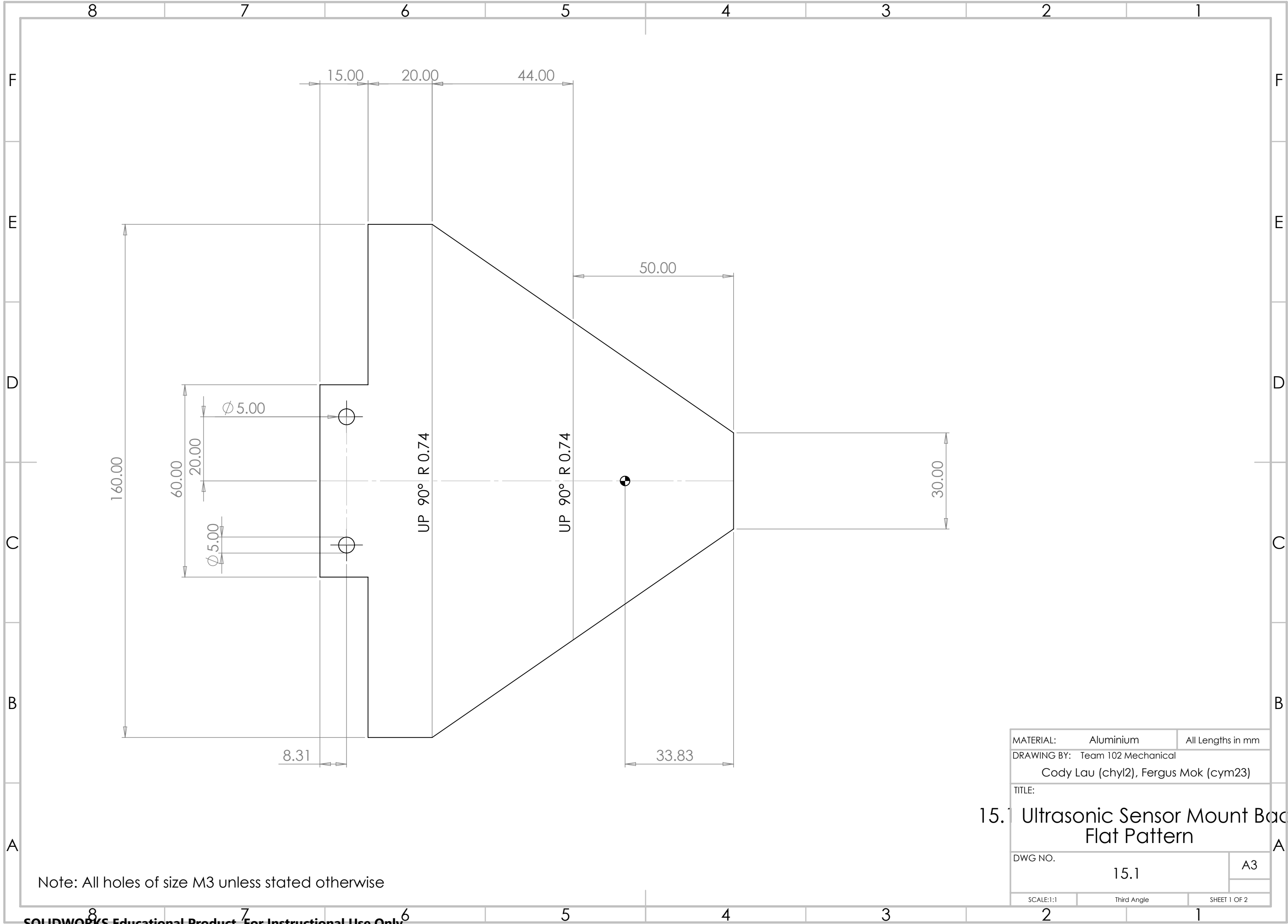
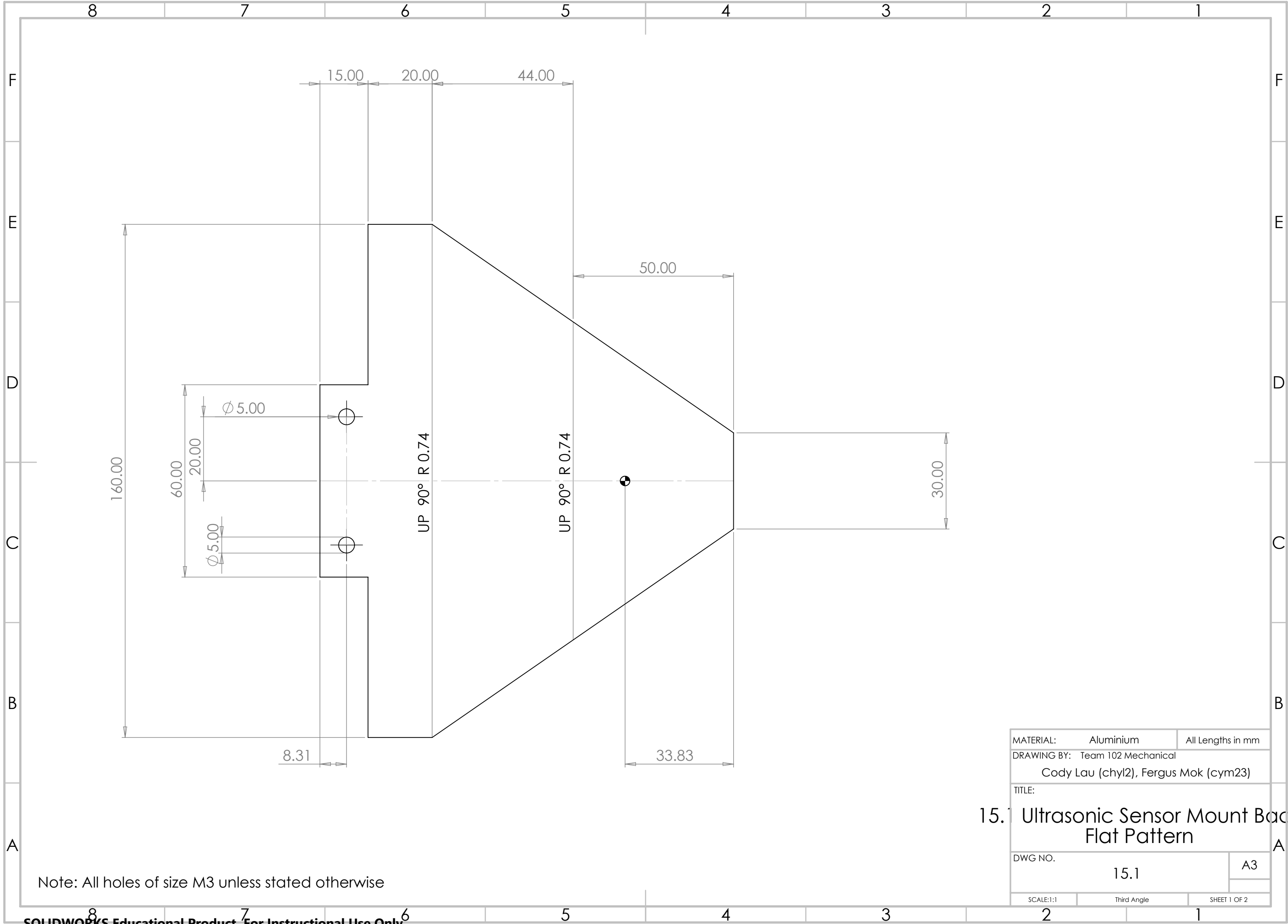
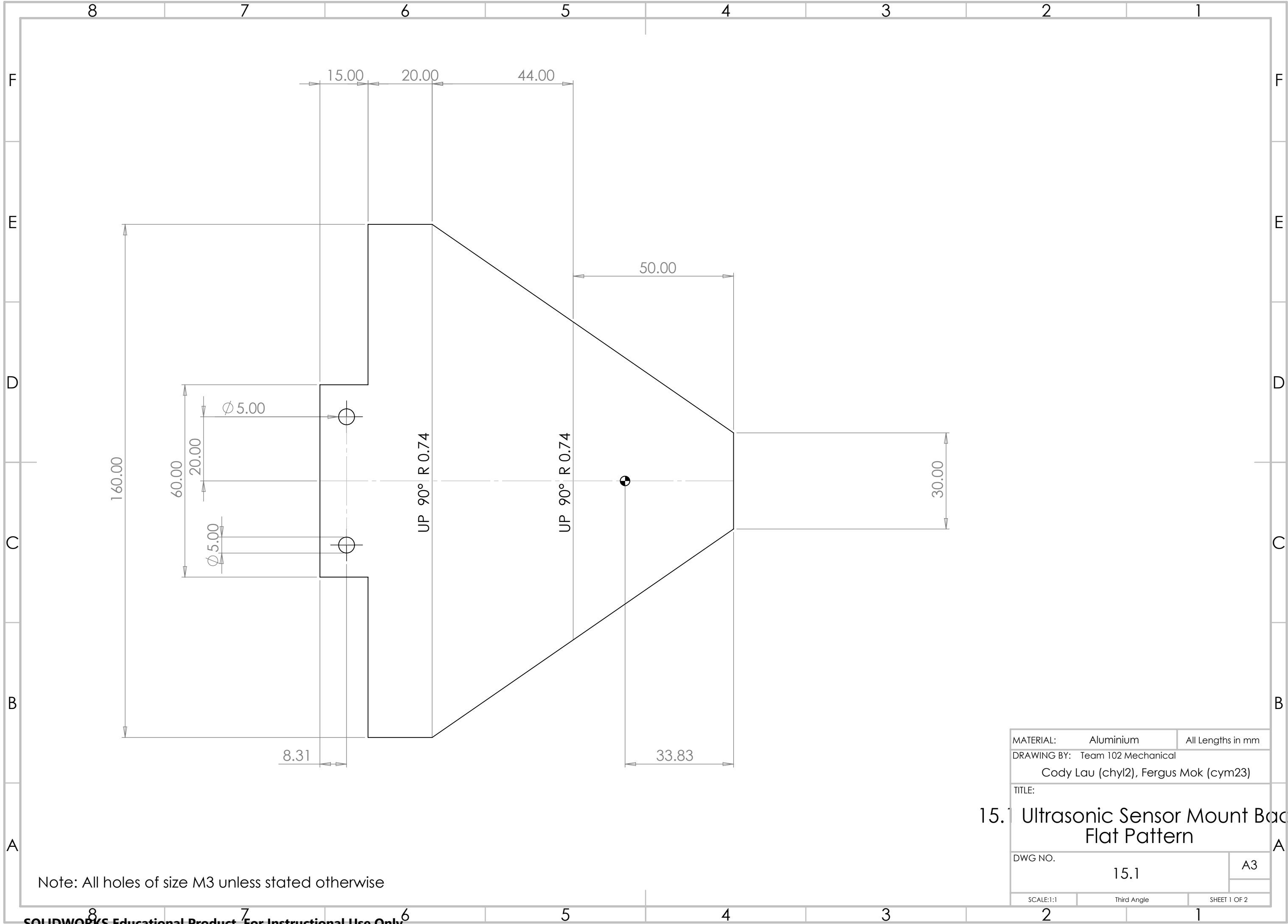
MATERIAL:	3mm MDF	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	13 LED Panel Laser Cut	
DWG NO.	13	A3
SCALE:2:1	Third Angle	SHEET 1 OF 1

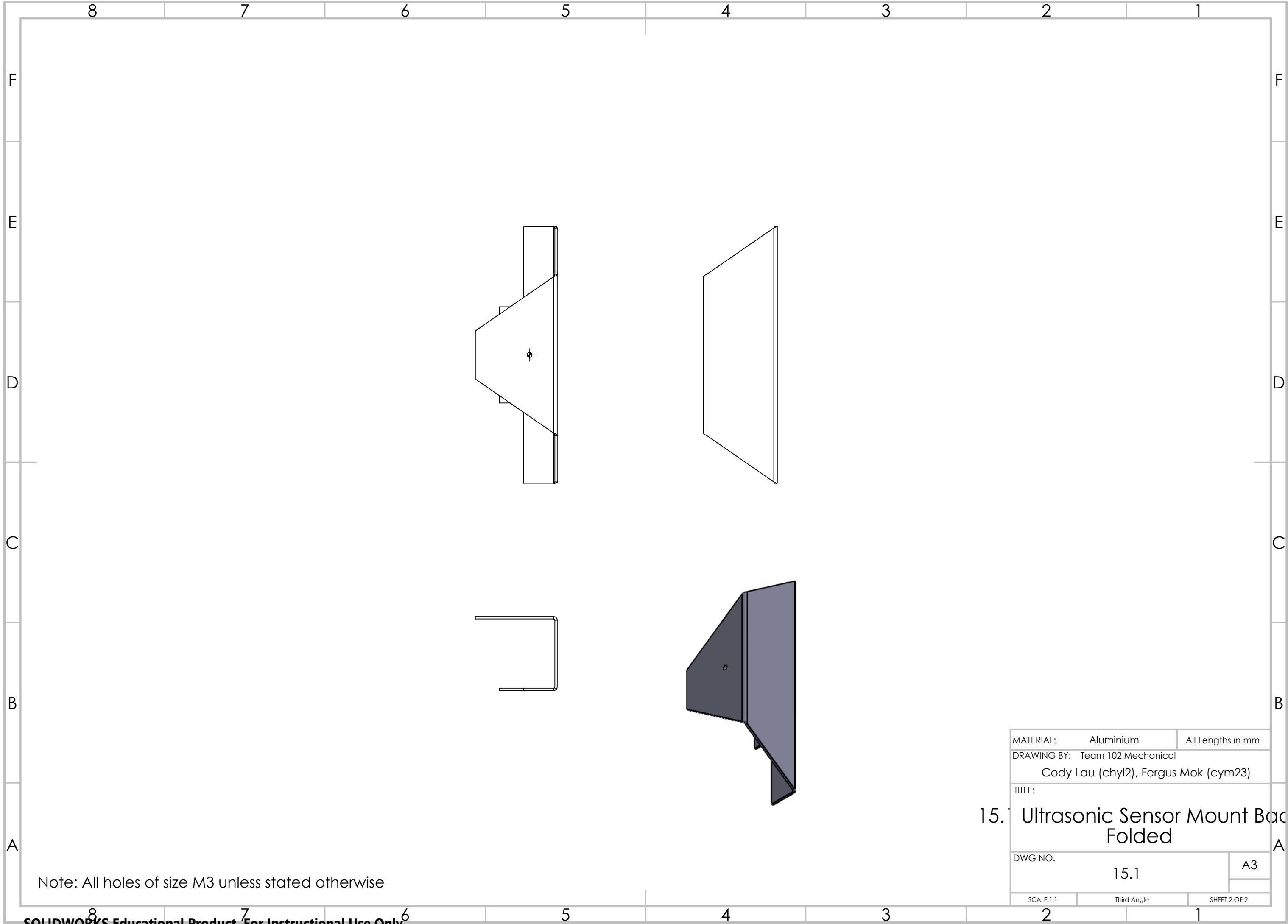


ITEM NO.	PART NUMBER	DWG NO.	QTY.
1	Ultrasonic Sensor Mount Back	15.1	1
2	US connecting board	15.2	1
3	HC-SR04 Ping Sensor	N/A (Ultrasonic Sensor)	1
4	Gear Rack	N/A	1

Note: All holes of size M3 unless stated otherwise

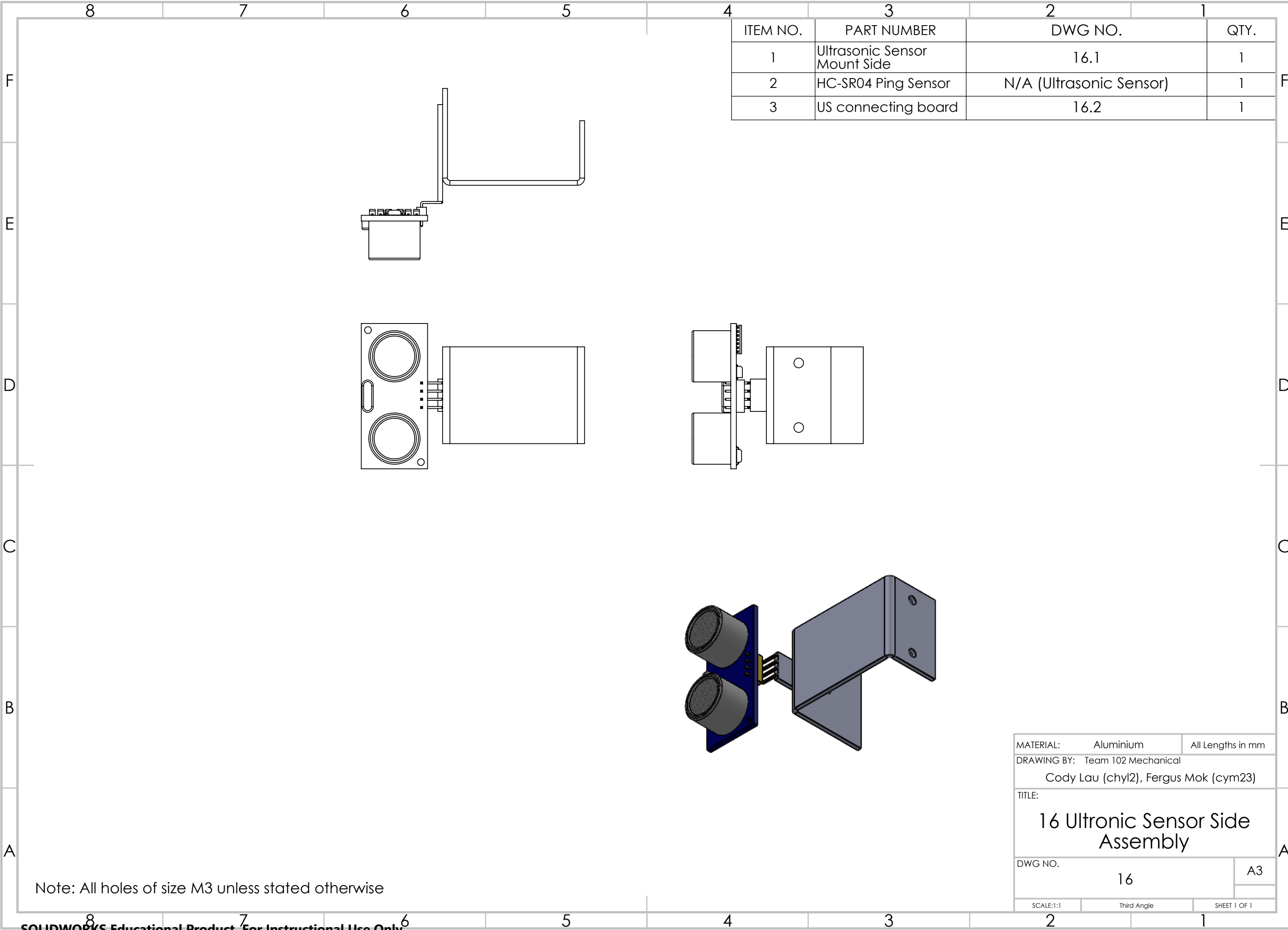
MATERIAL:	Aluminium, Plastic	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	15 Ultrasonic Sensor Mount Back Assembly	
DWG NO.	15	A3
SCALE:1:2	Third Angle	SHEET 1 OF 1





Note: All holes of size M3 unless stated otherwise

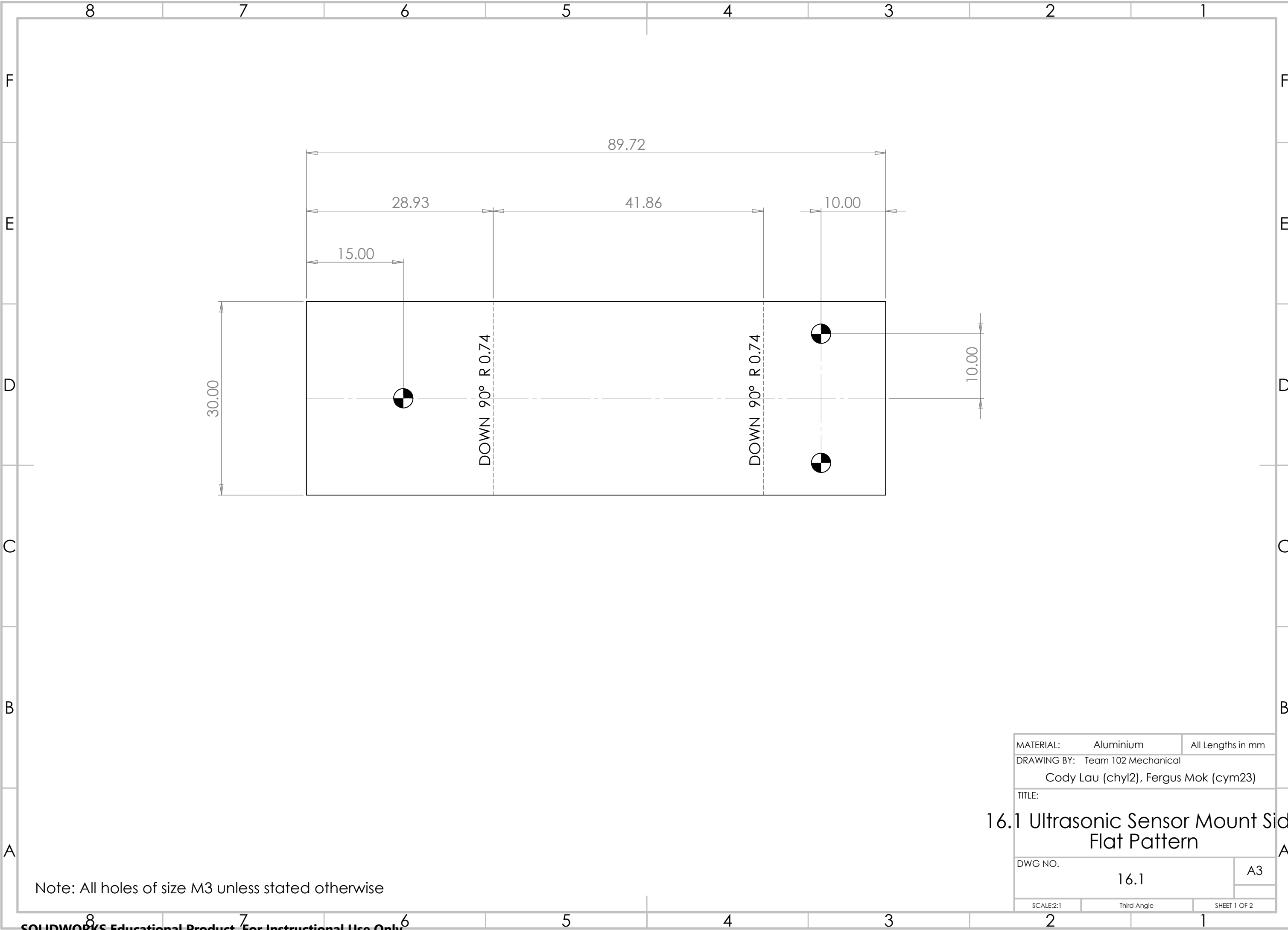
MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	15.1 Ultrasonic Sensor Mount Back Folded	
DWG NO.	15.1	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



ITEM NO.	PART NUMBER	DWG NO.	QTY.
1	Ultrasonic Sensor Mount Side	16.1	1
2	HC-SR04 Ping Sensor	N/A (Ultrasonic Sensor)	1
3	US connecting board	16.2	1

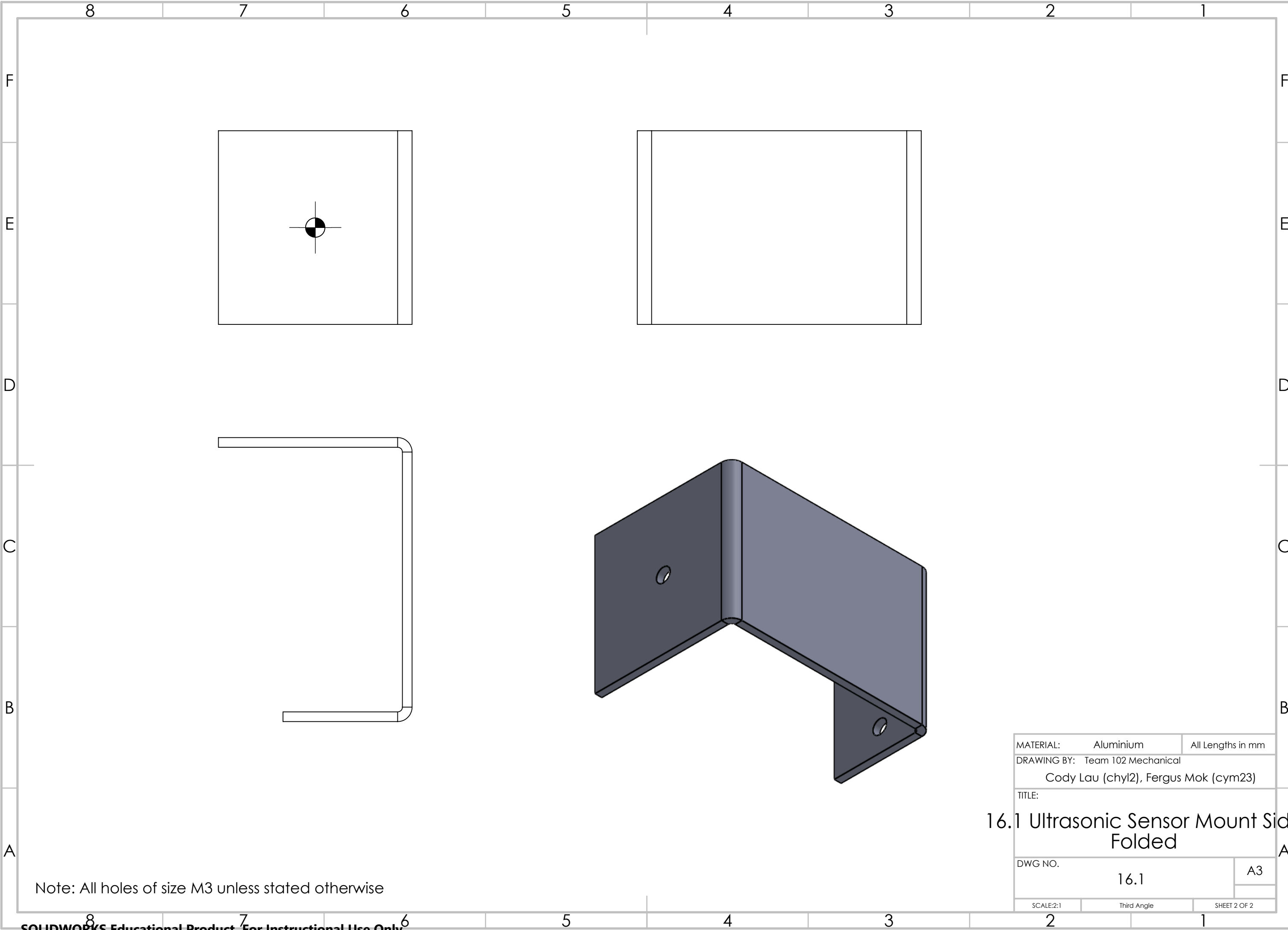
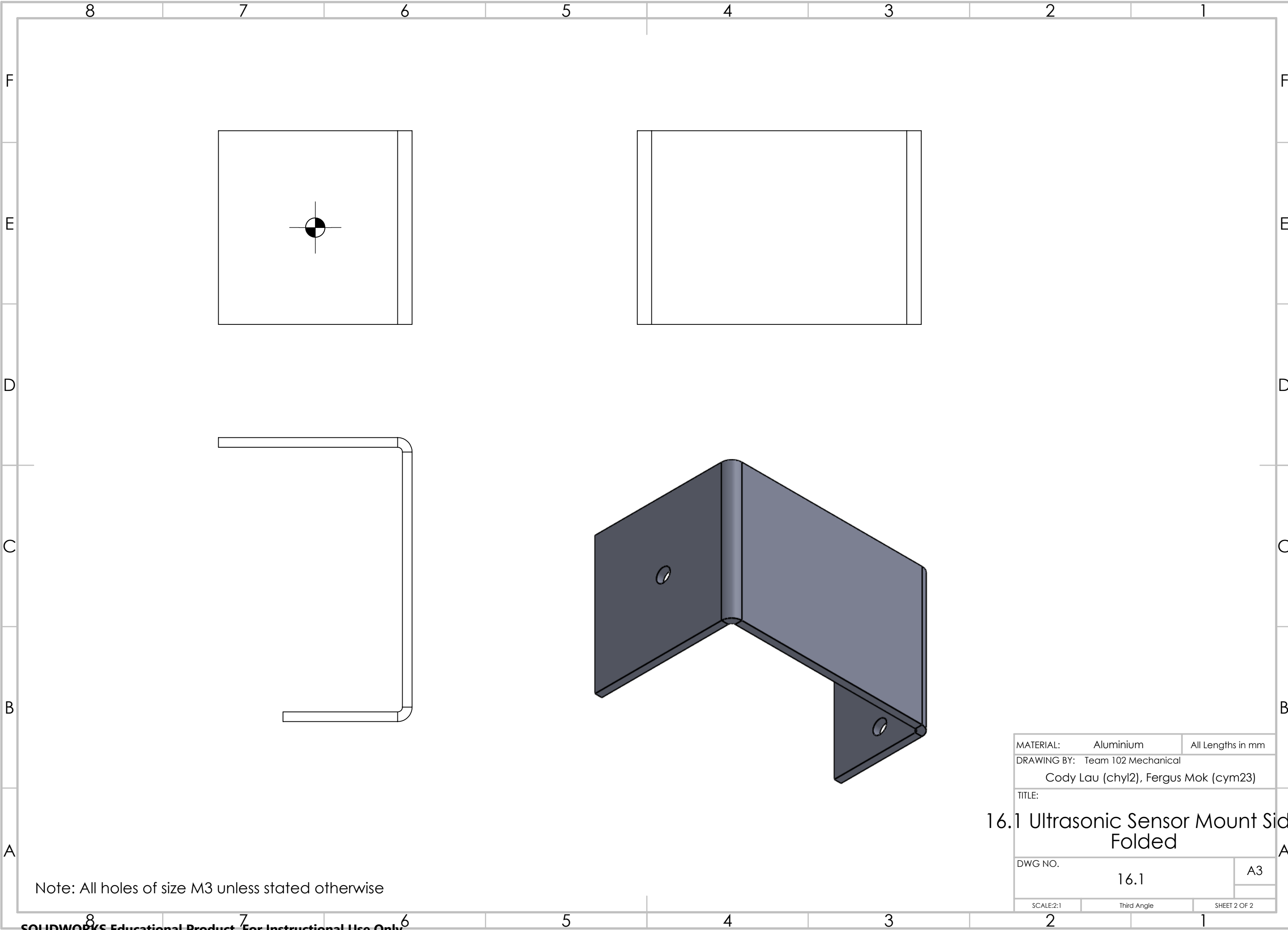
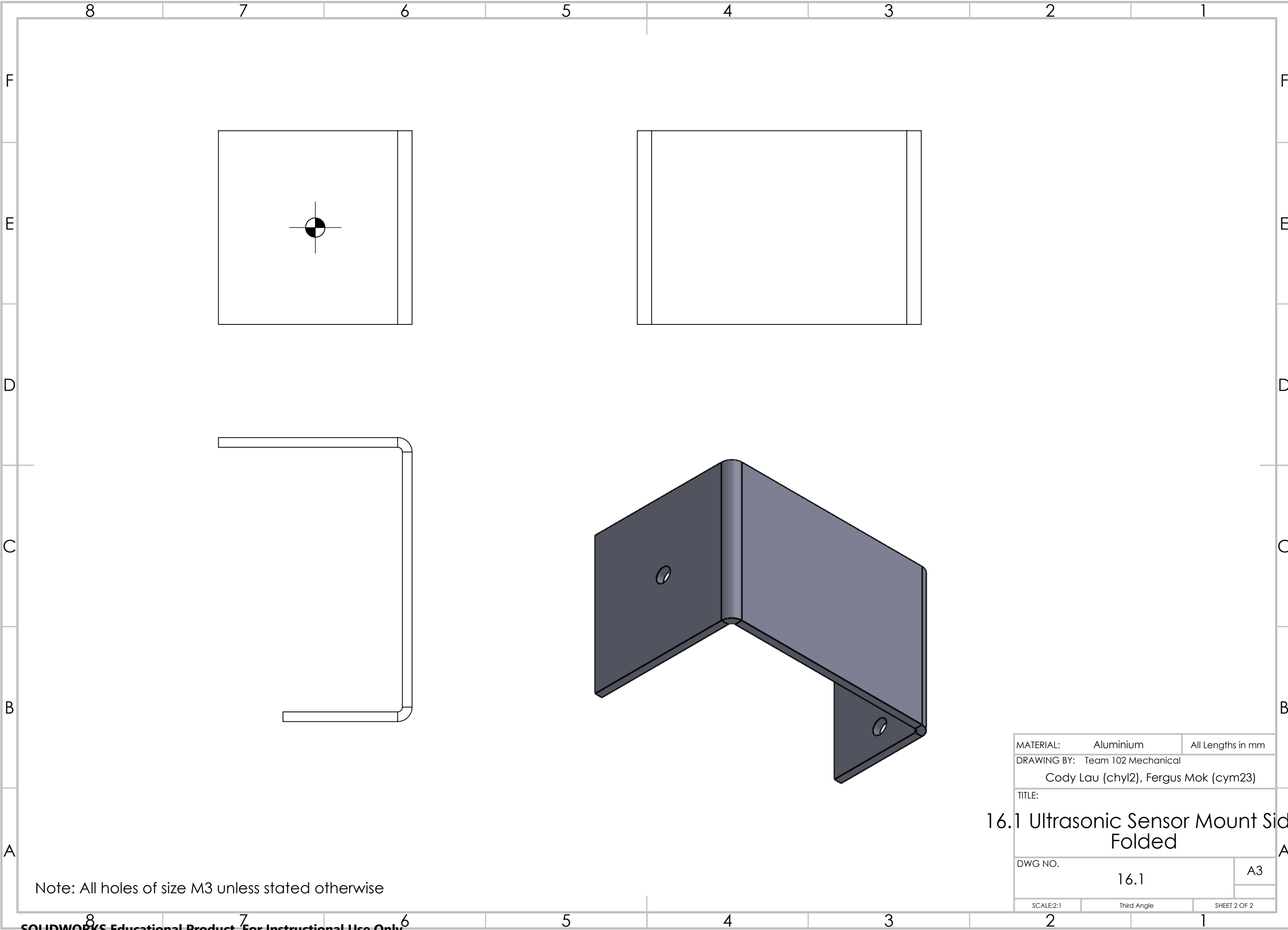
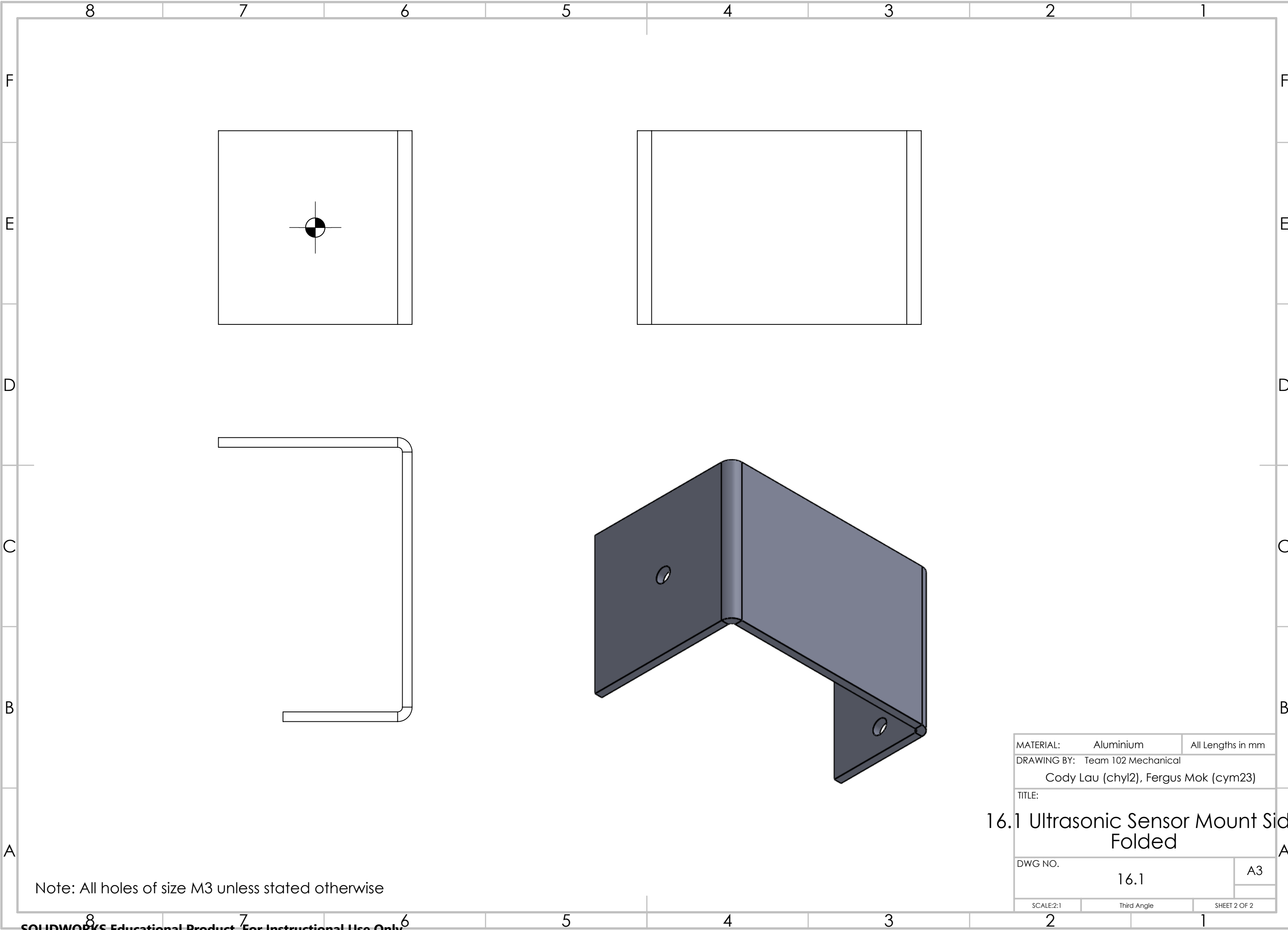
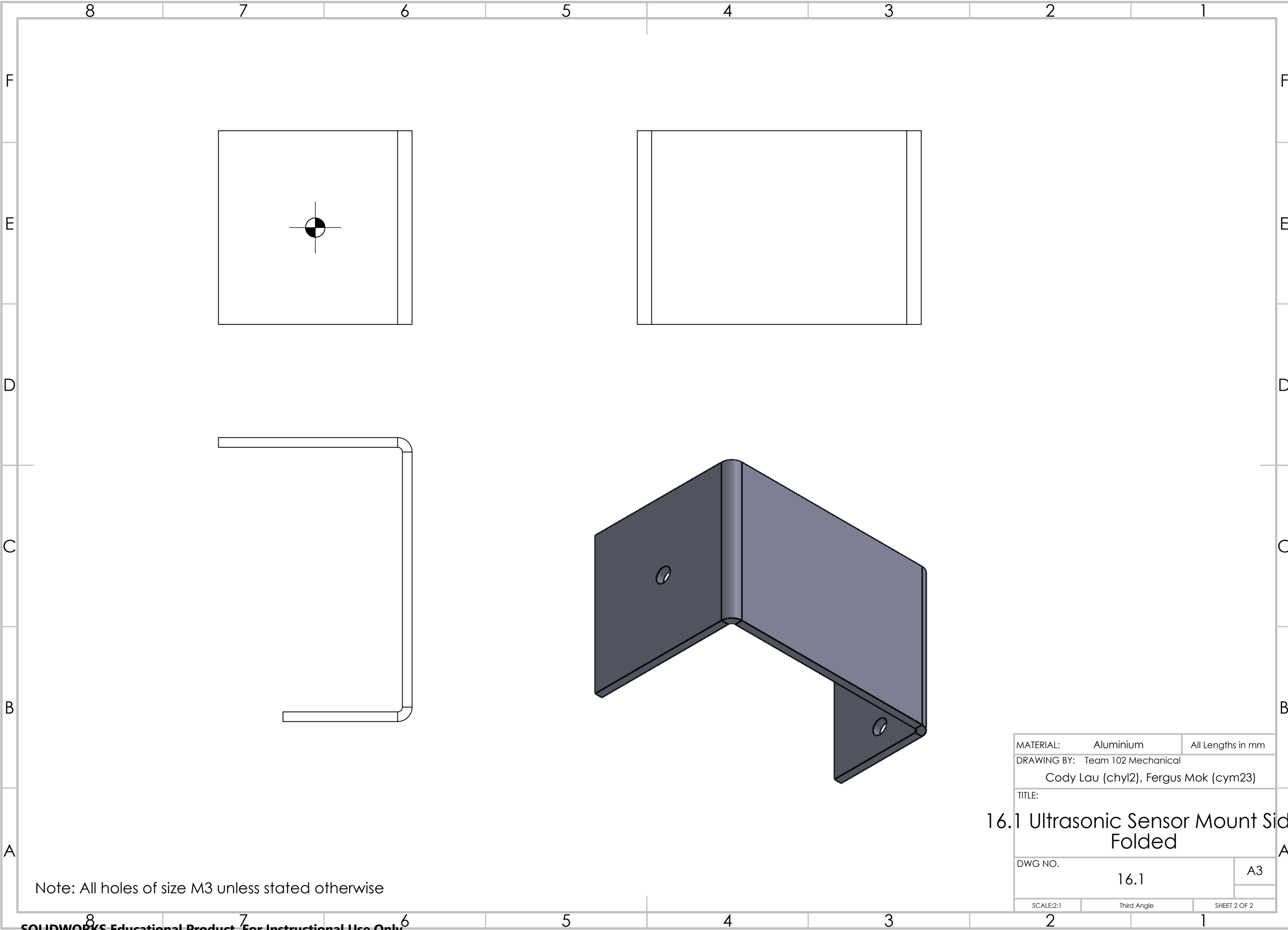
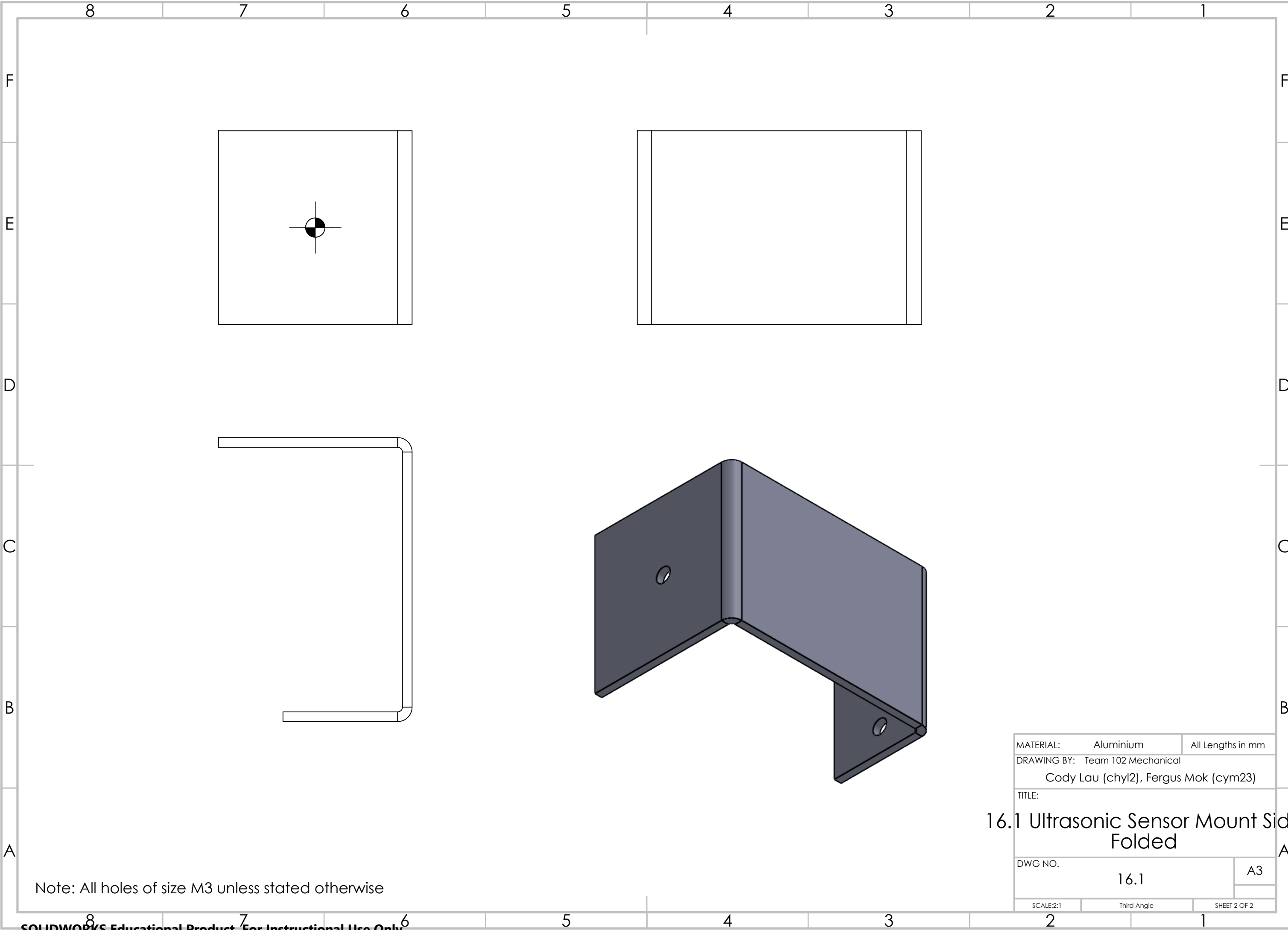
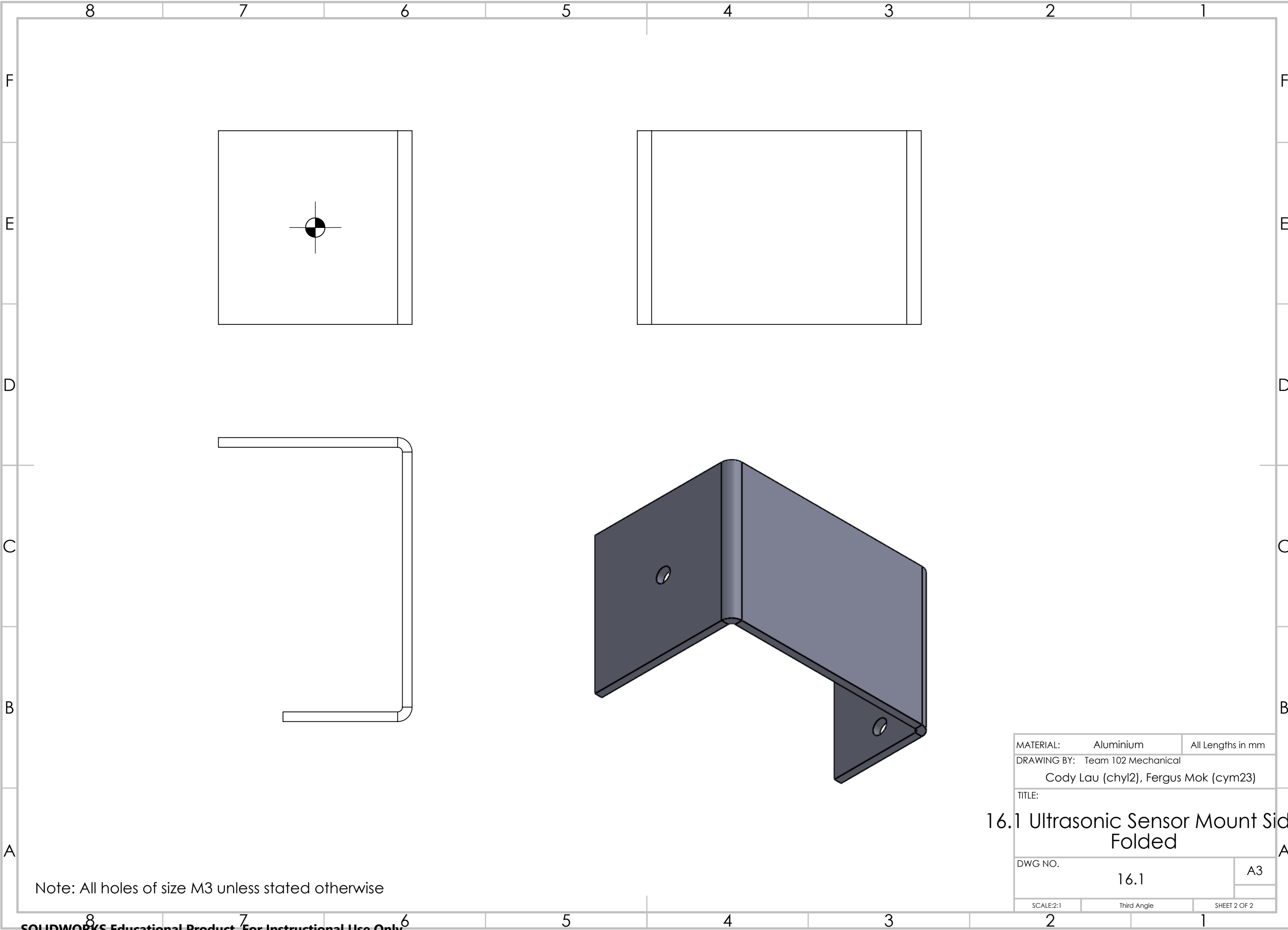
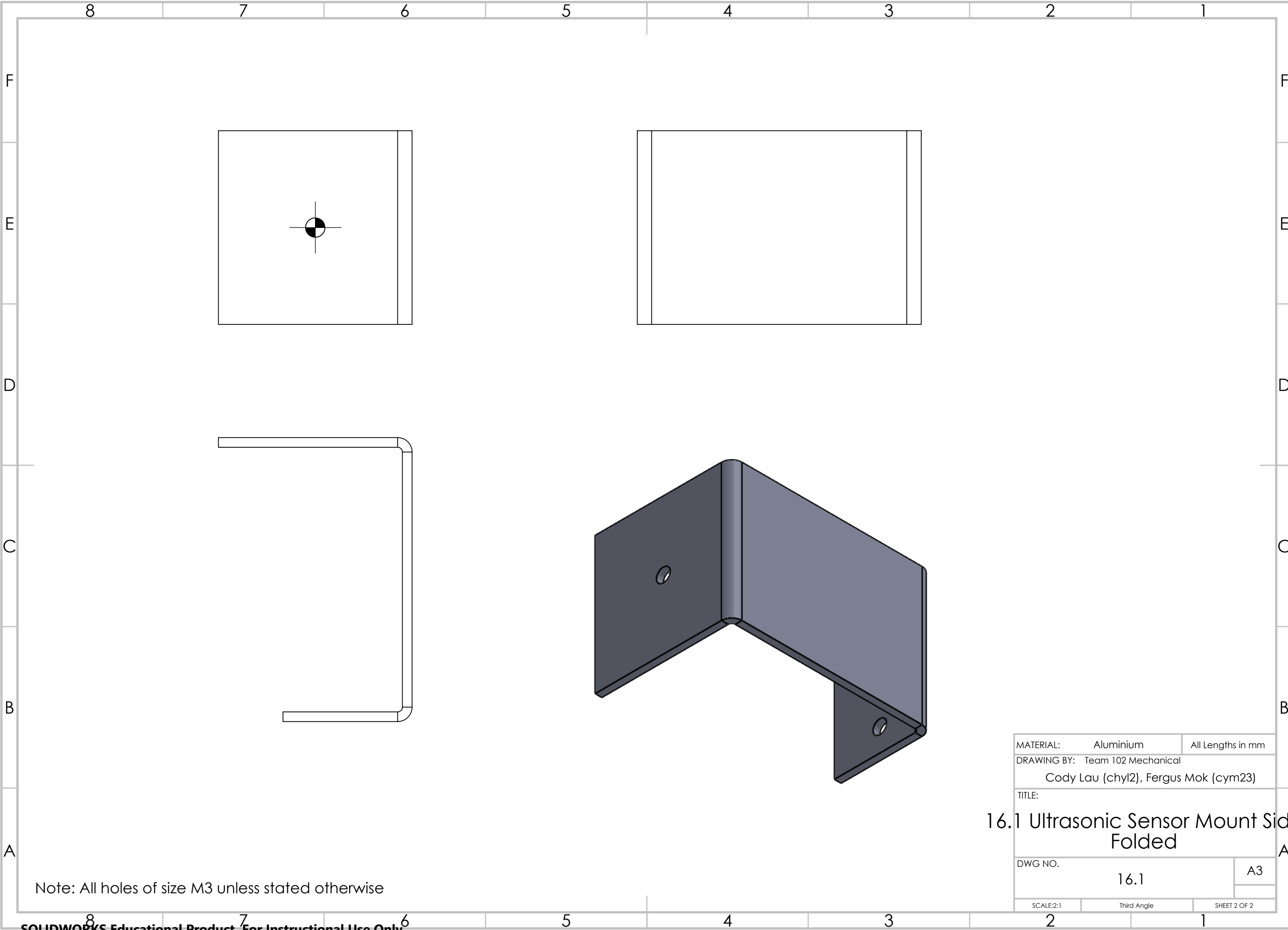
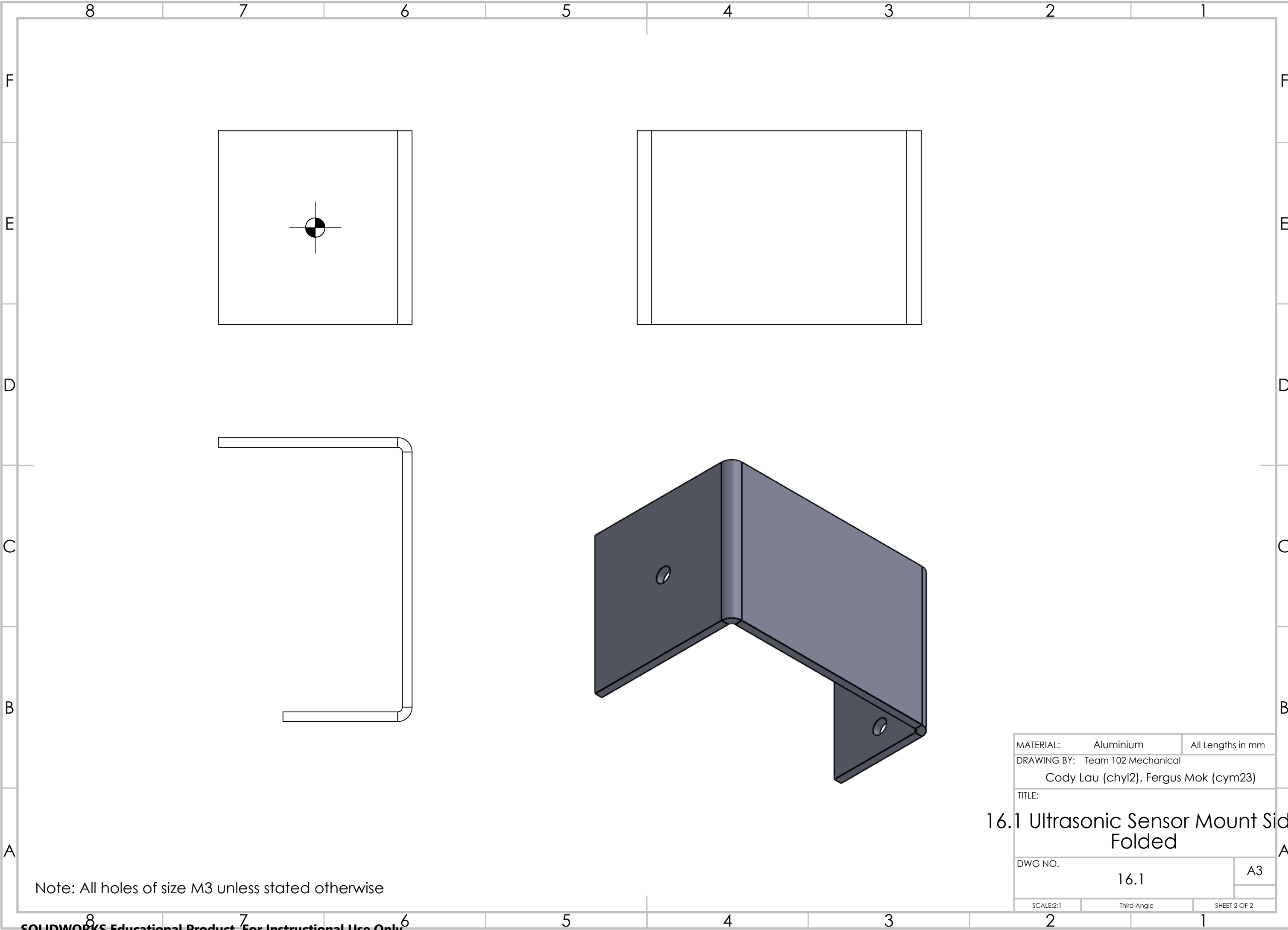
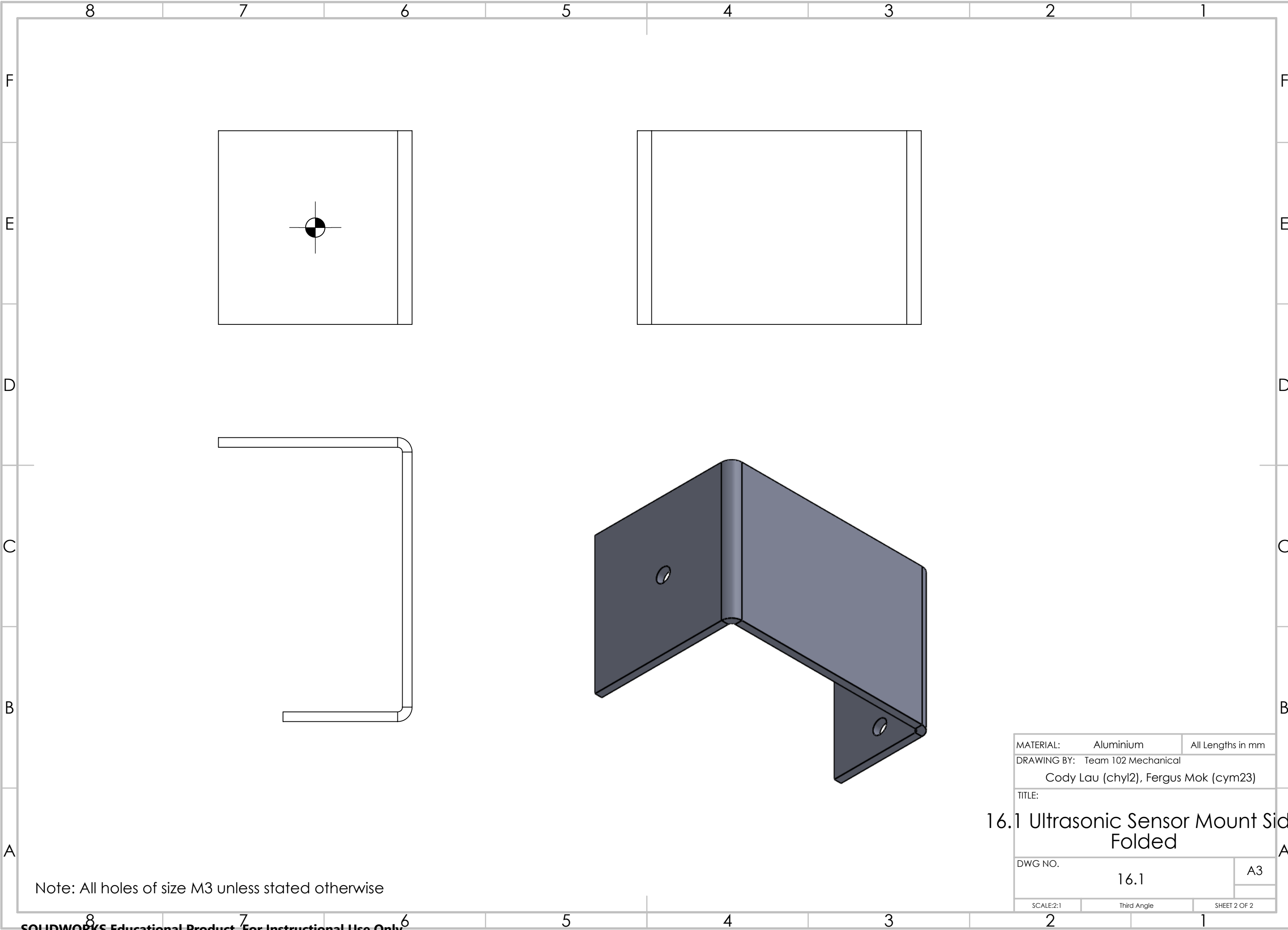
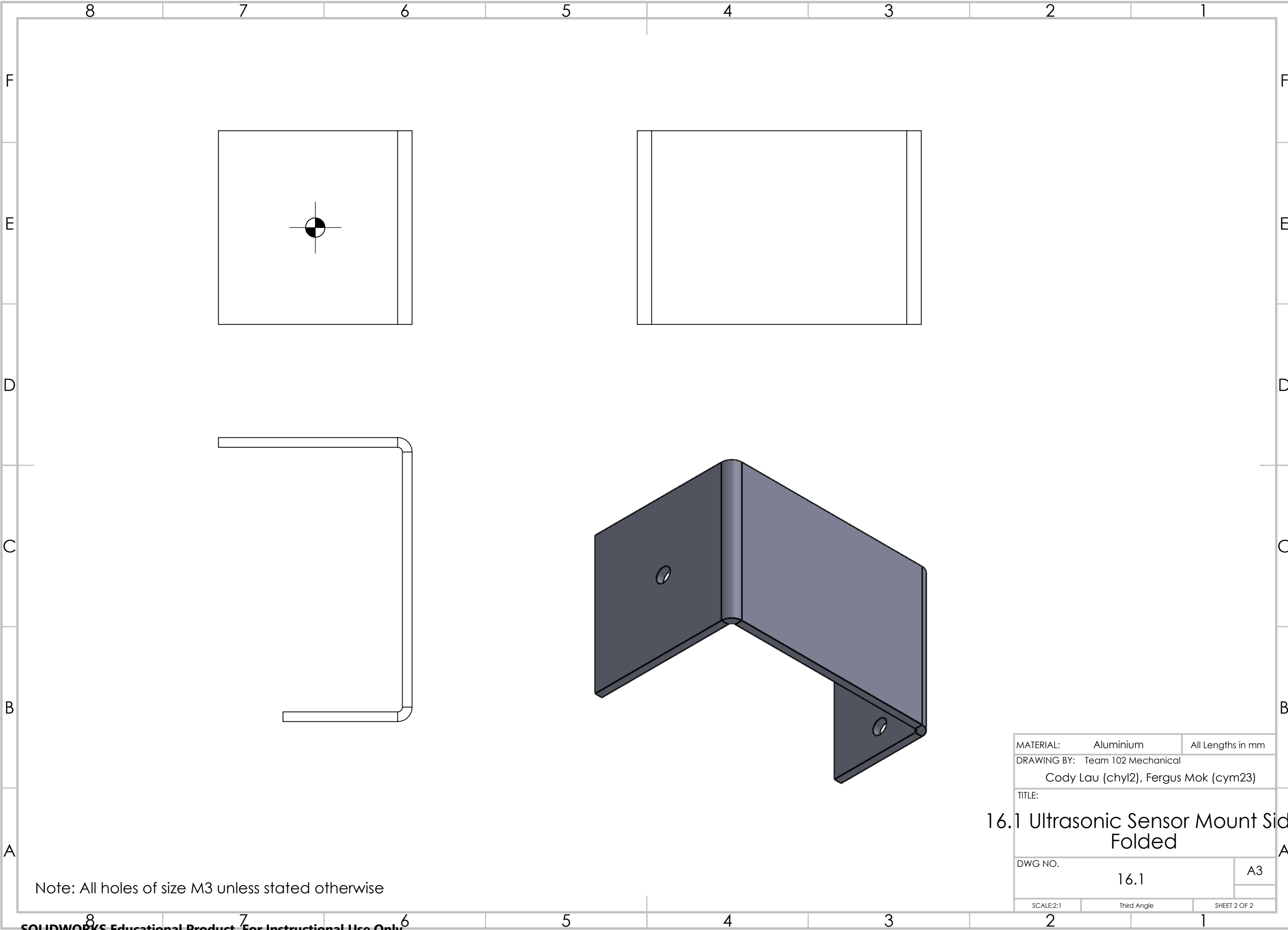
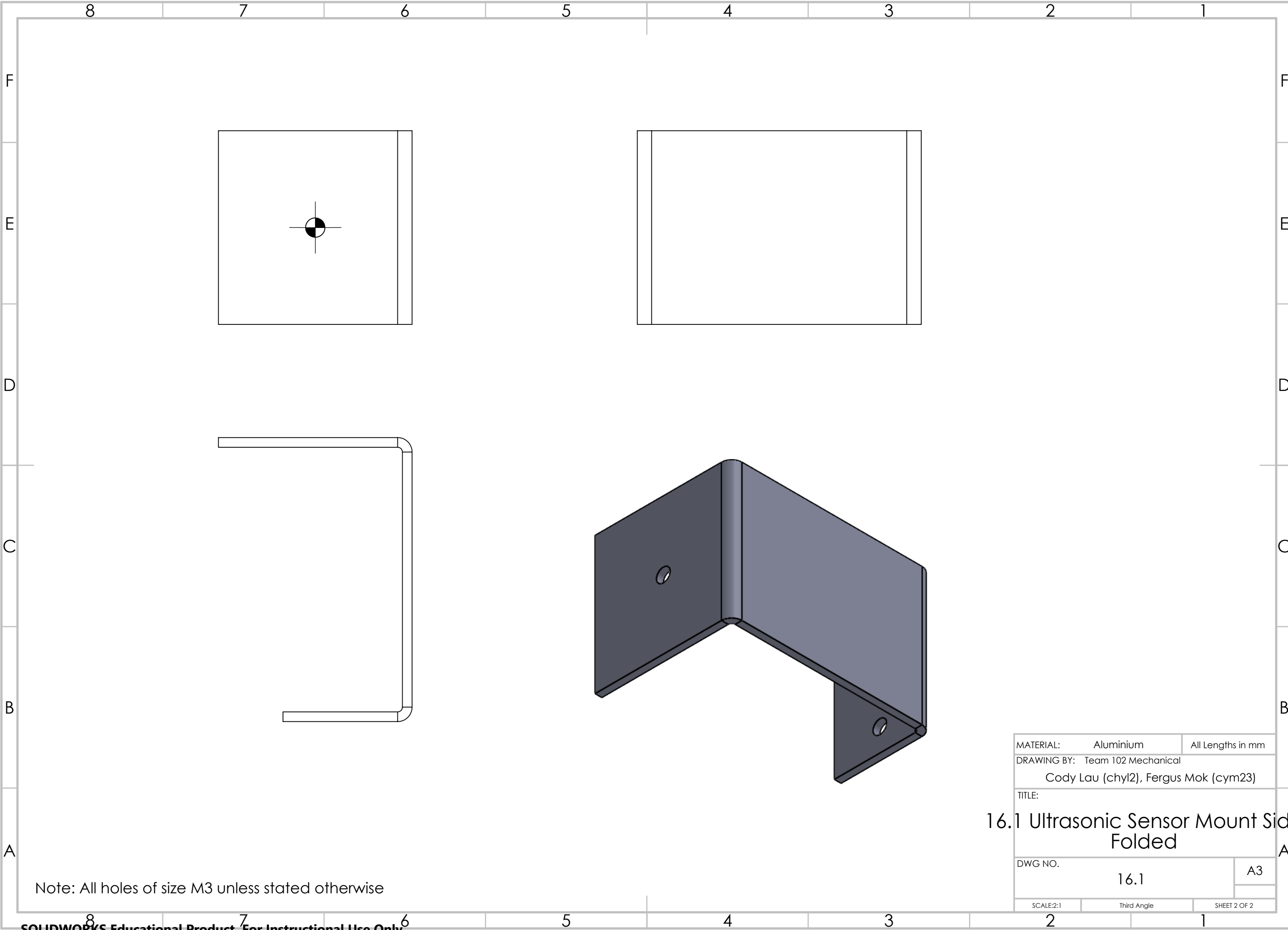
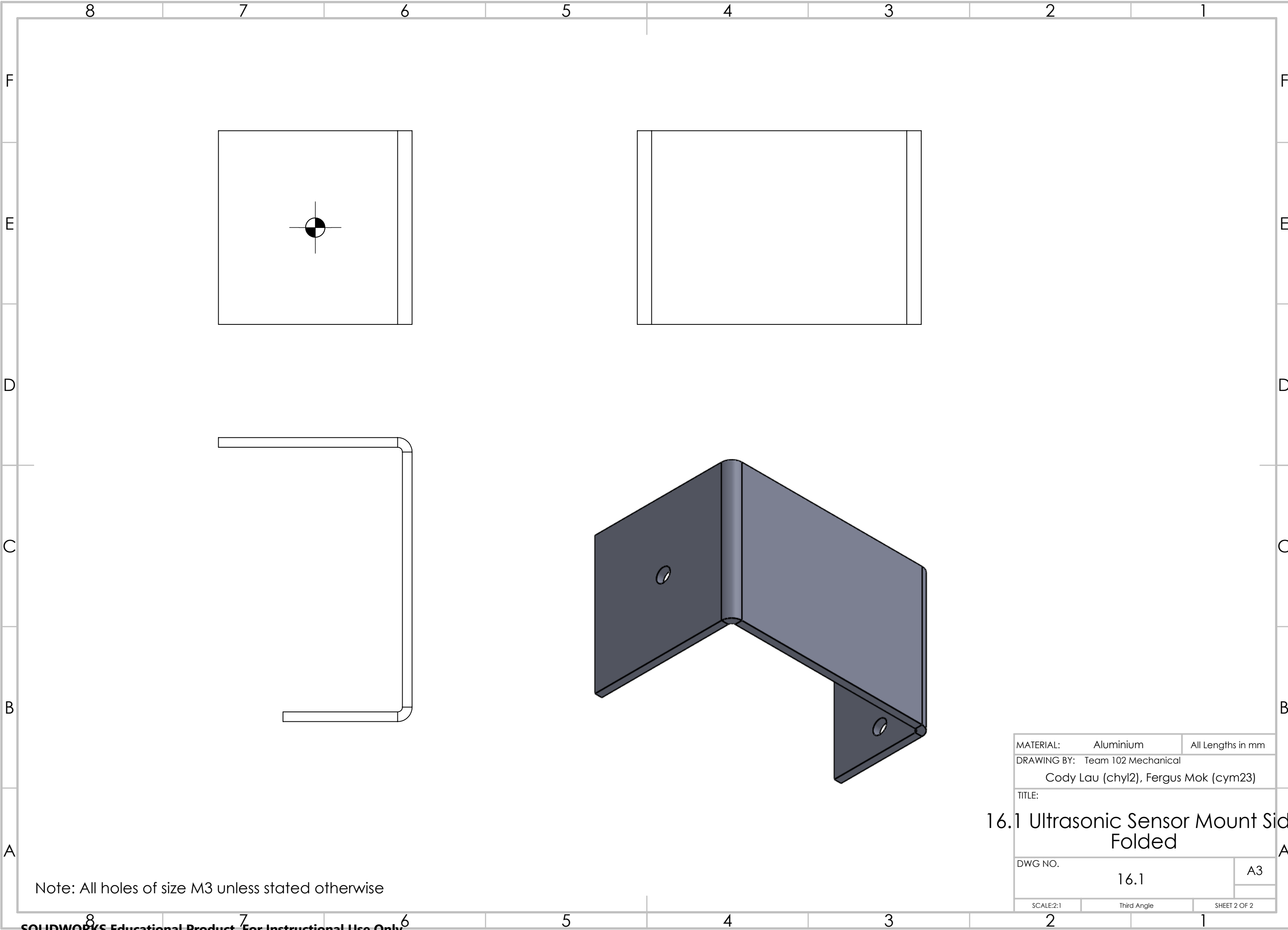
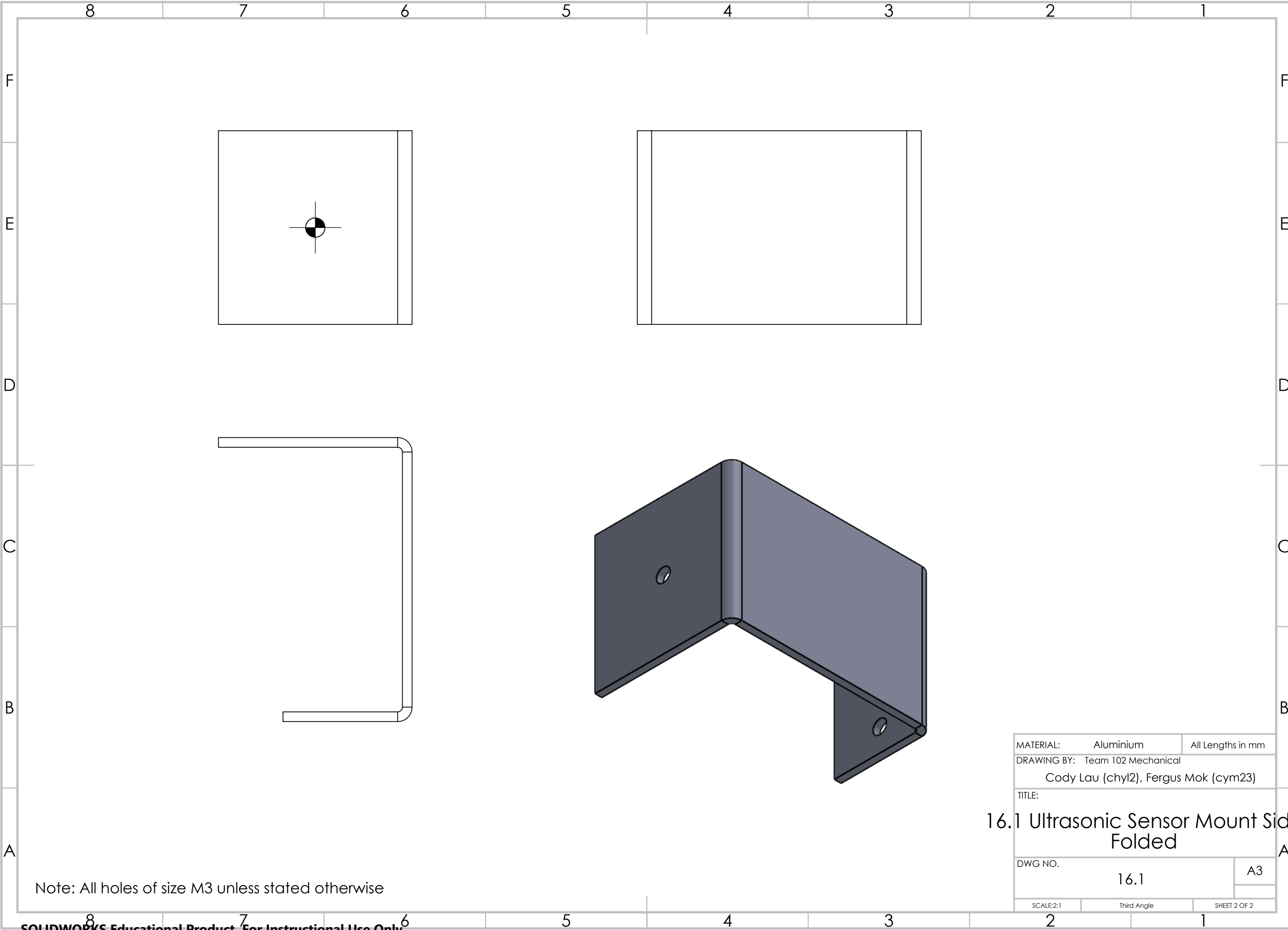
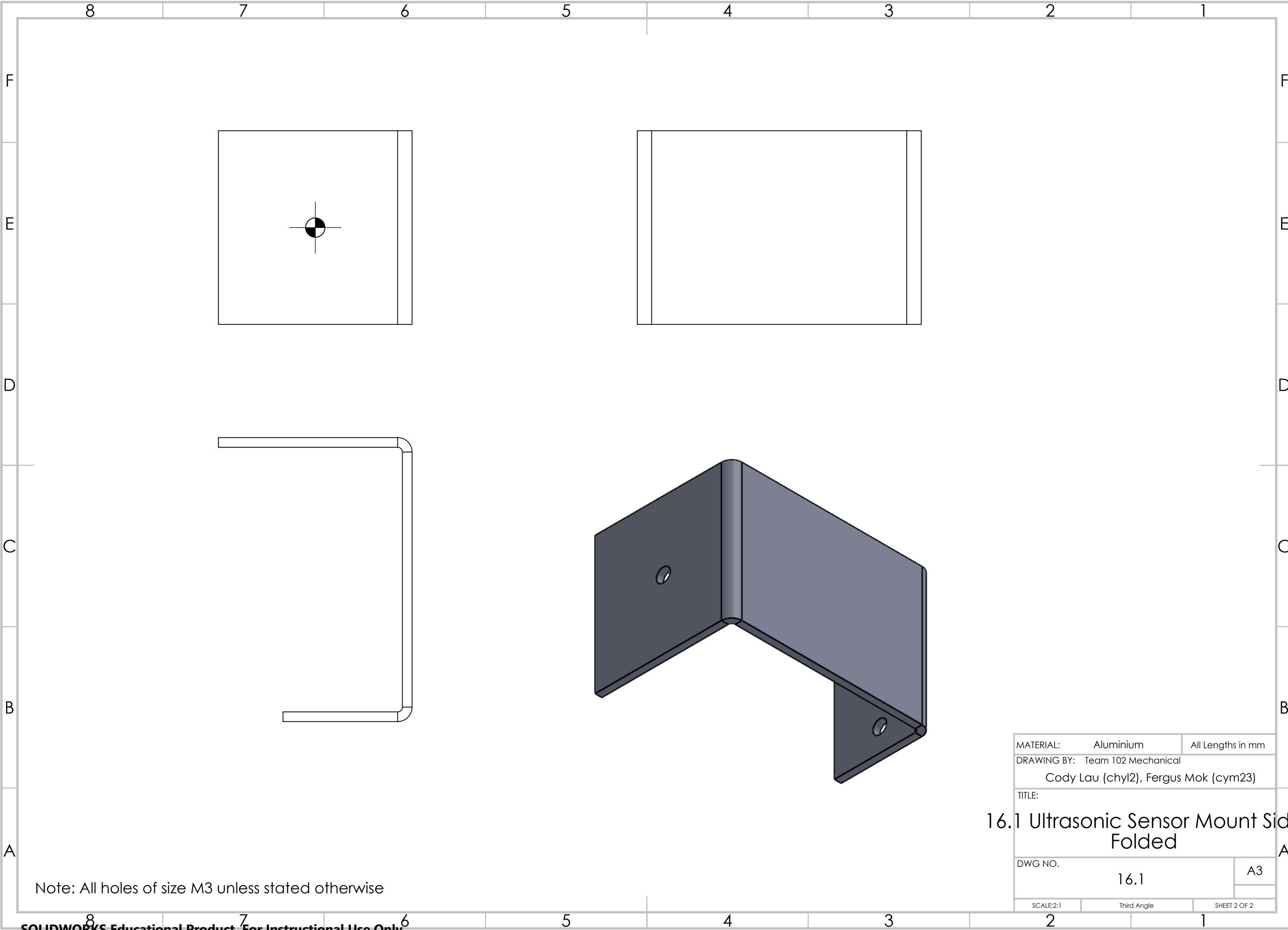
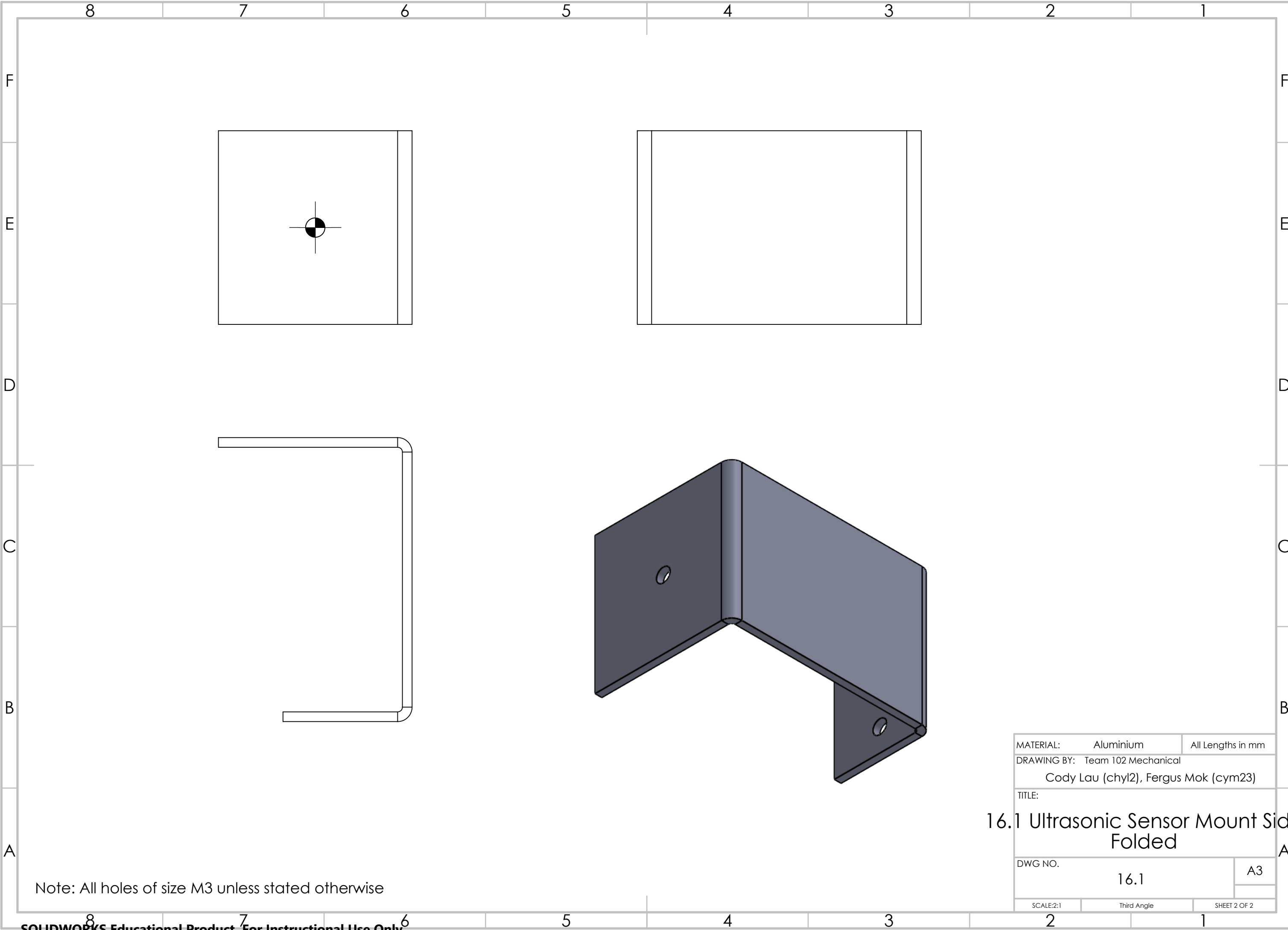
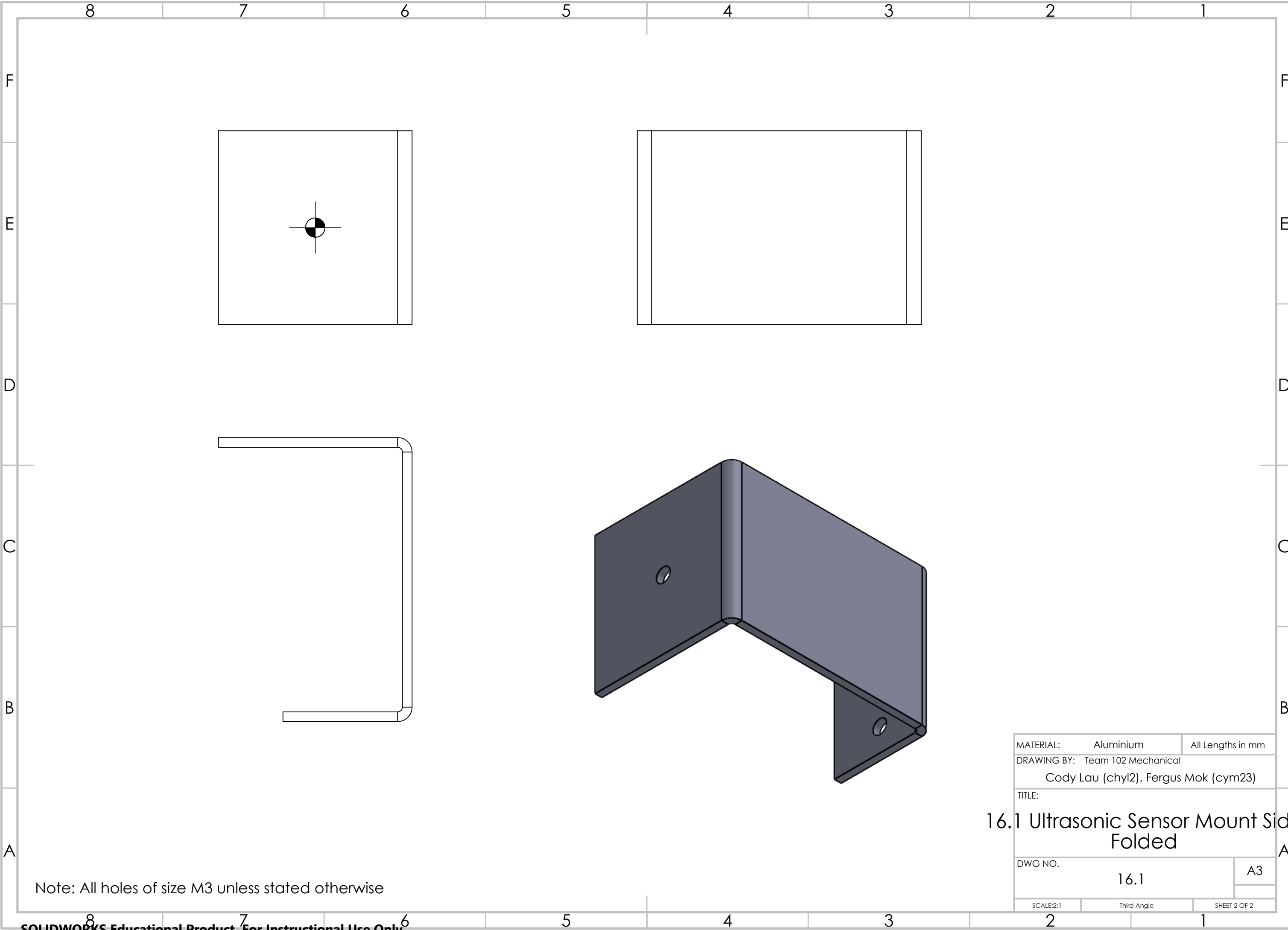
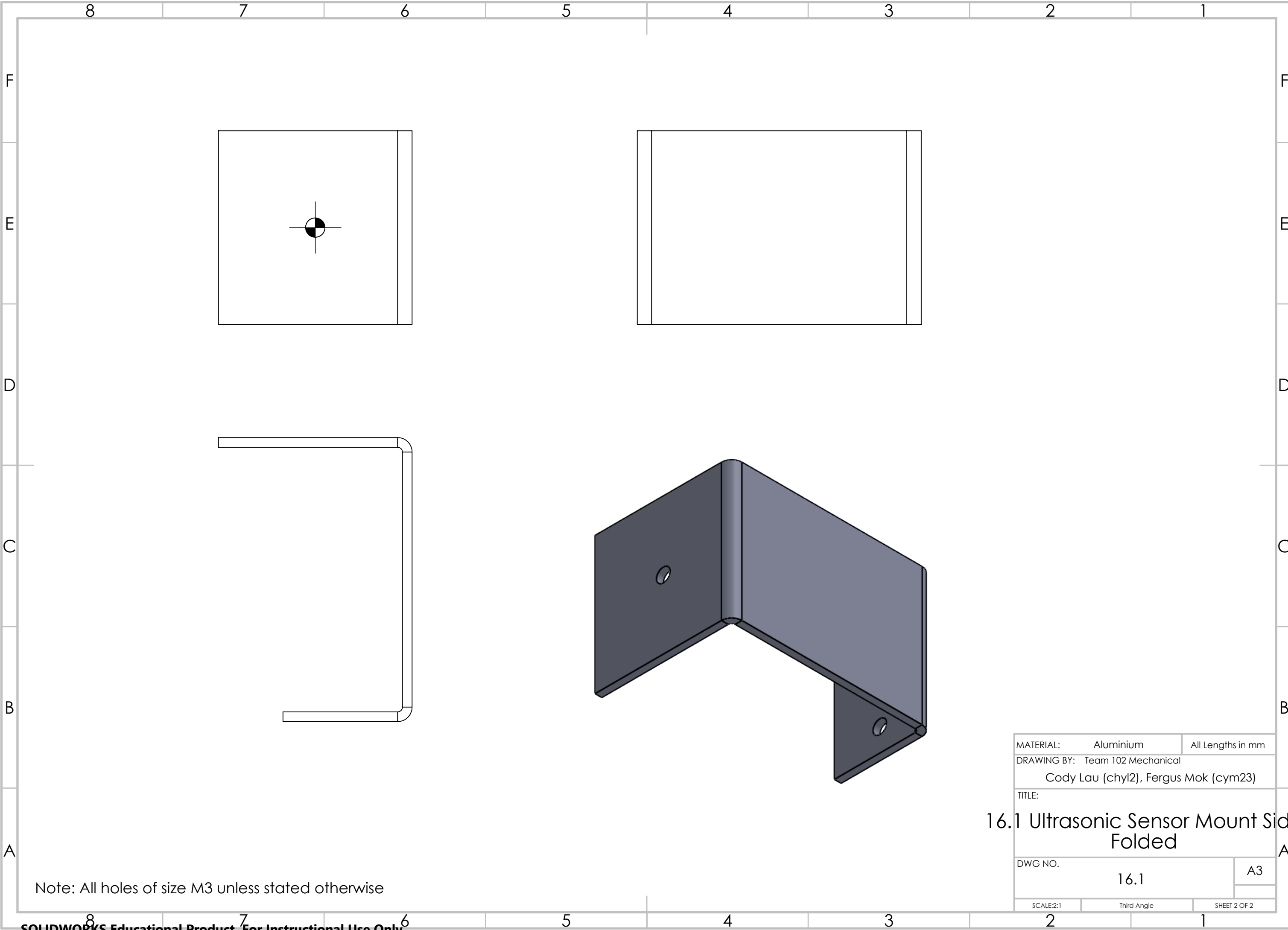
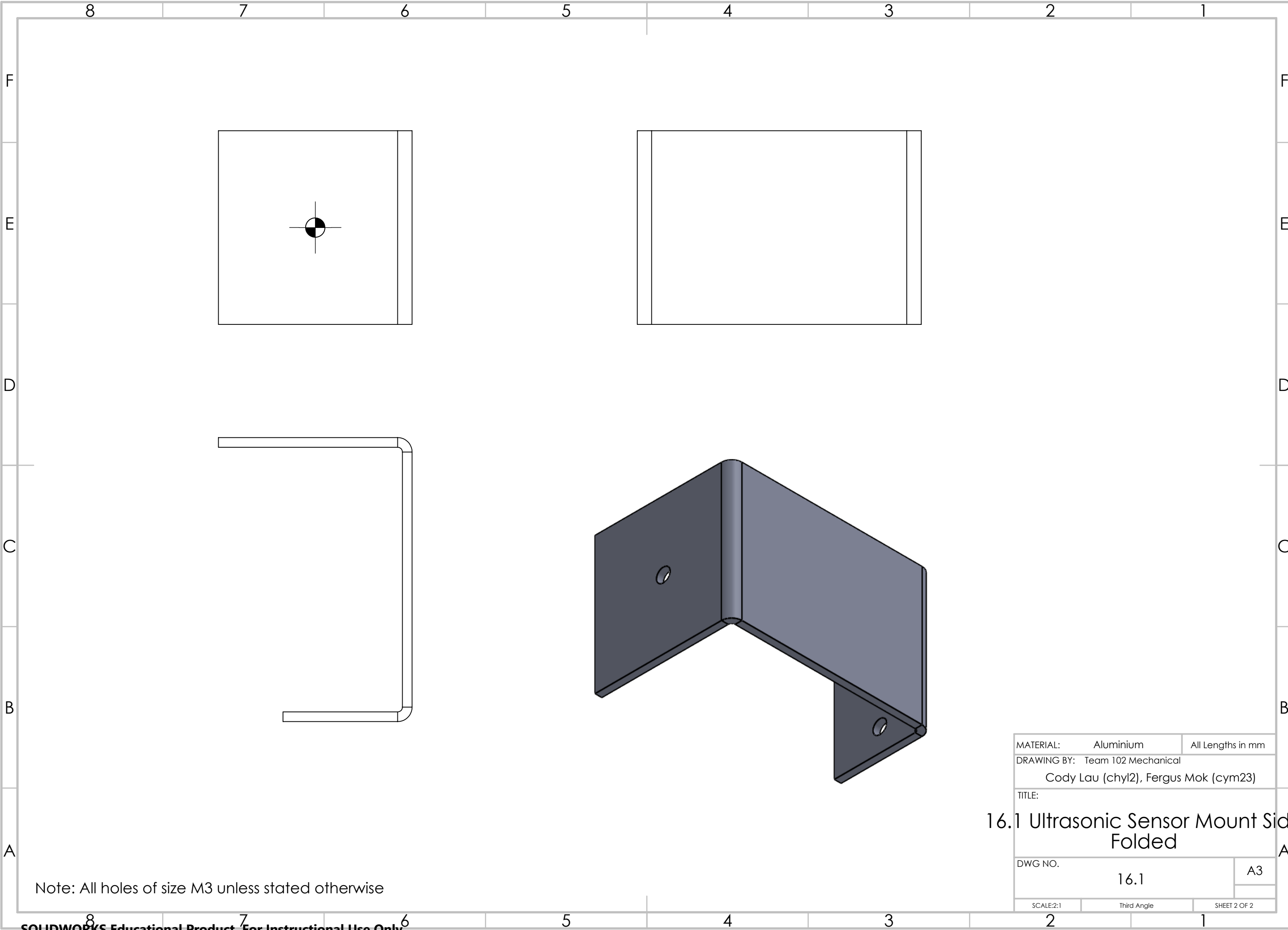
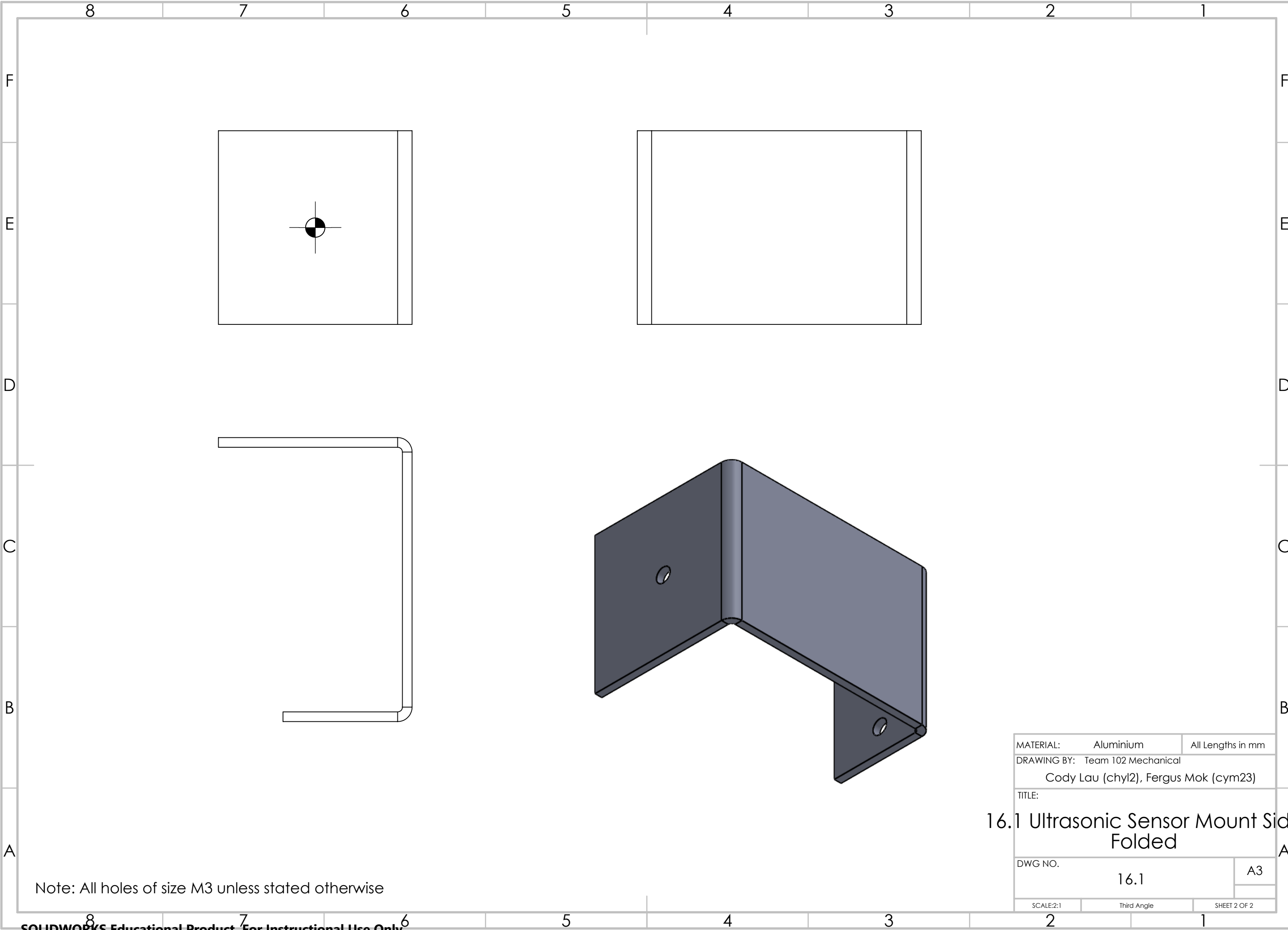
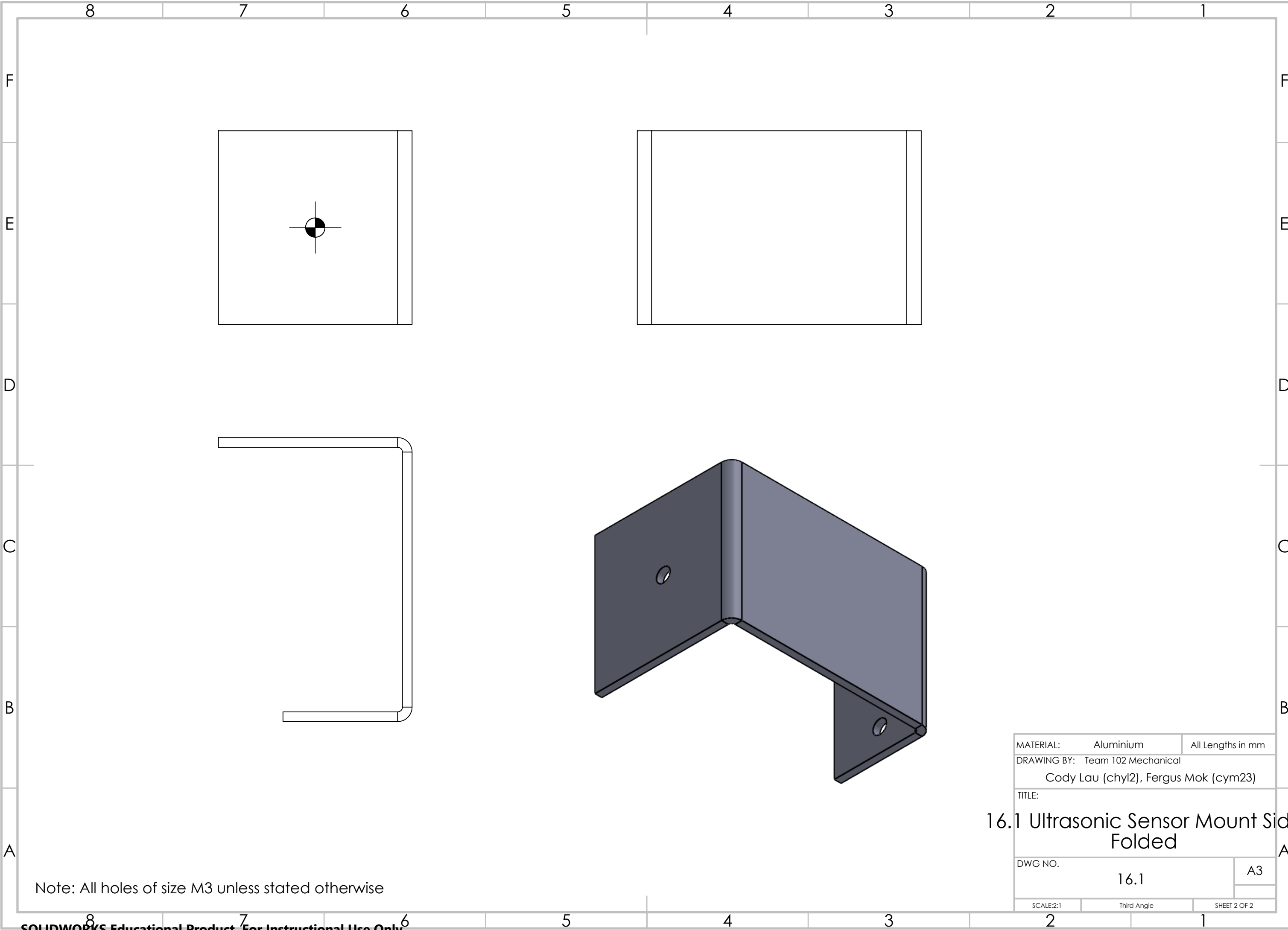
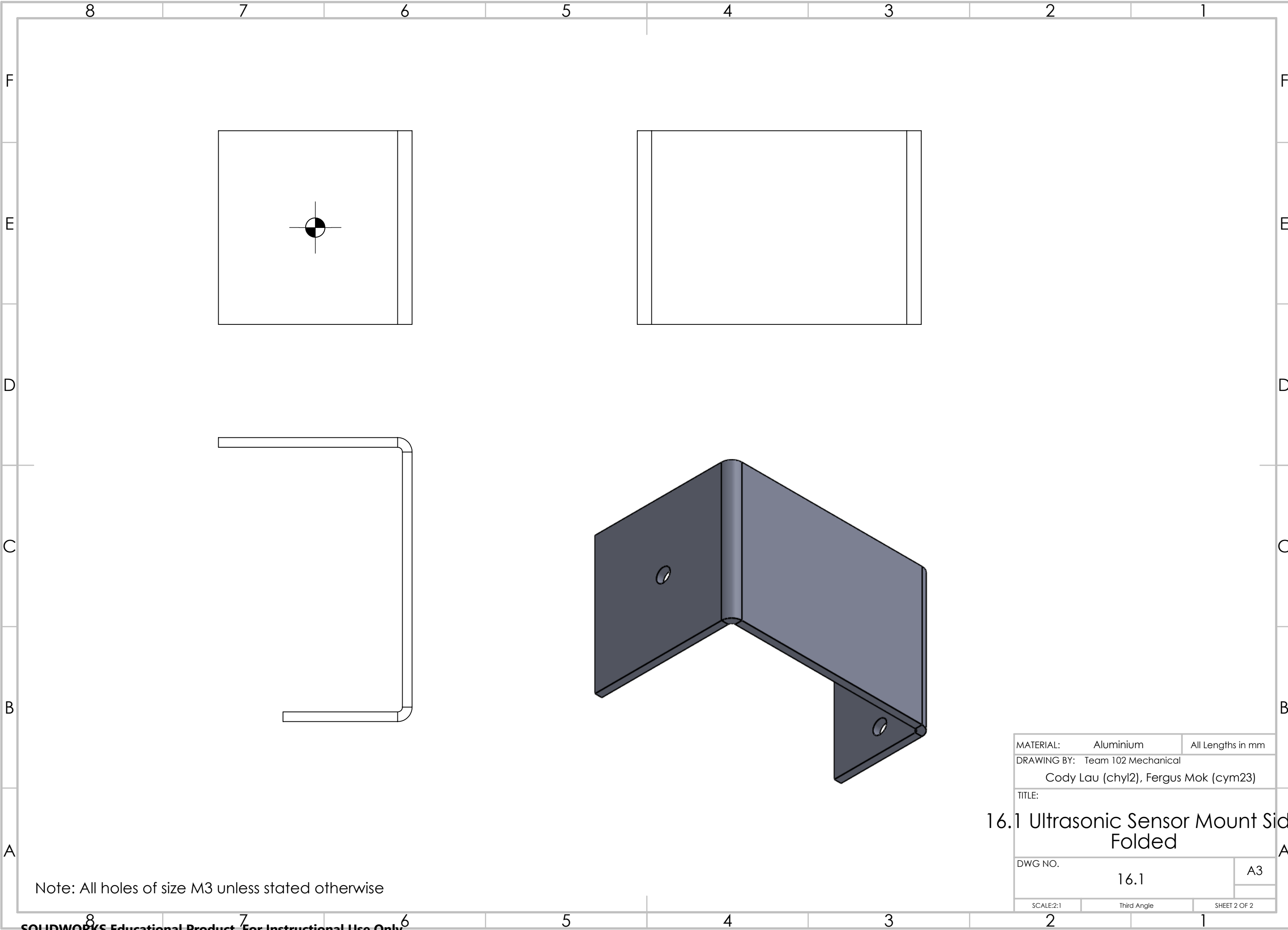
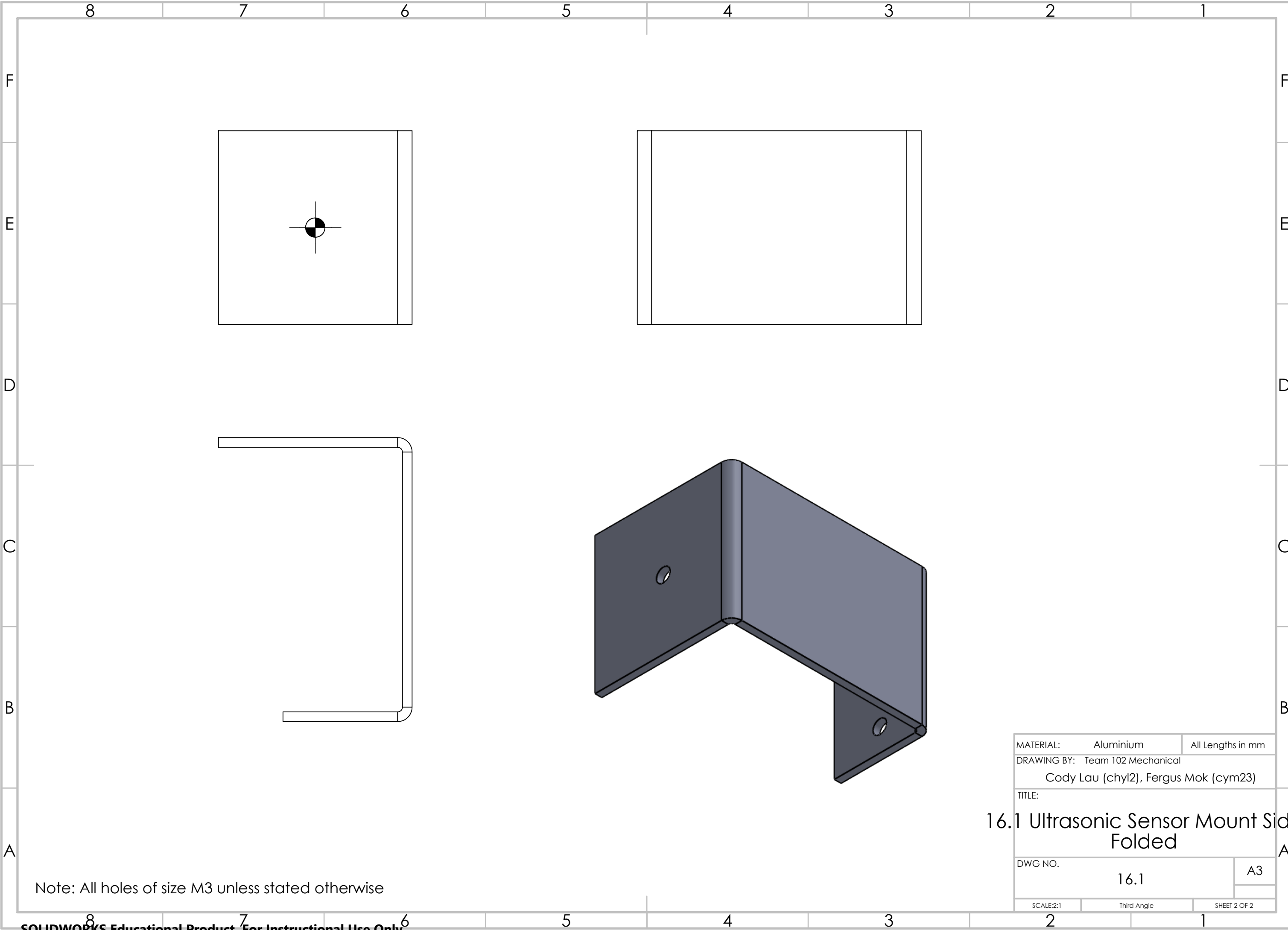
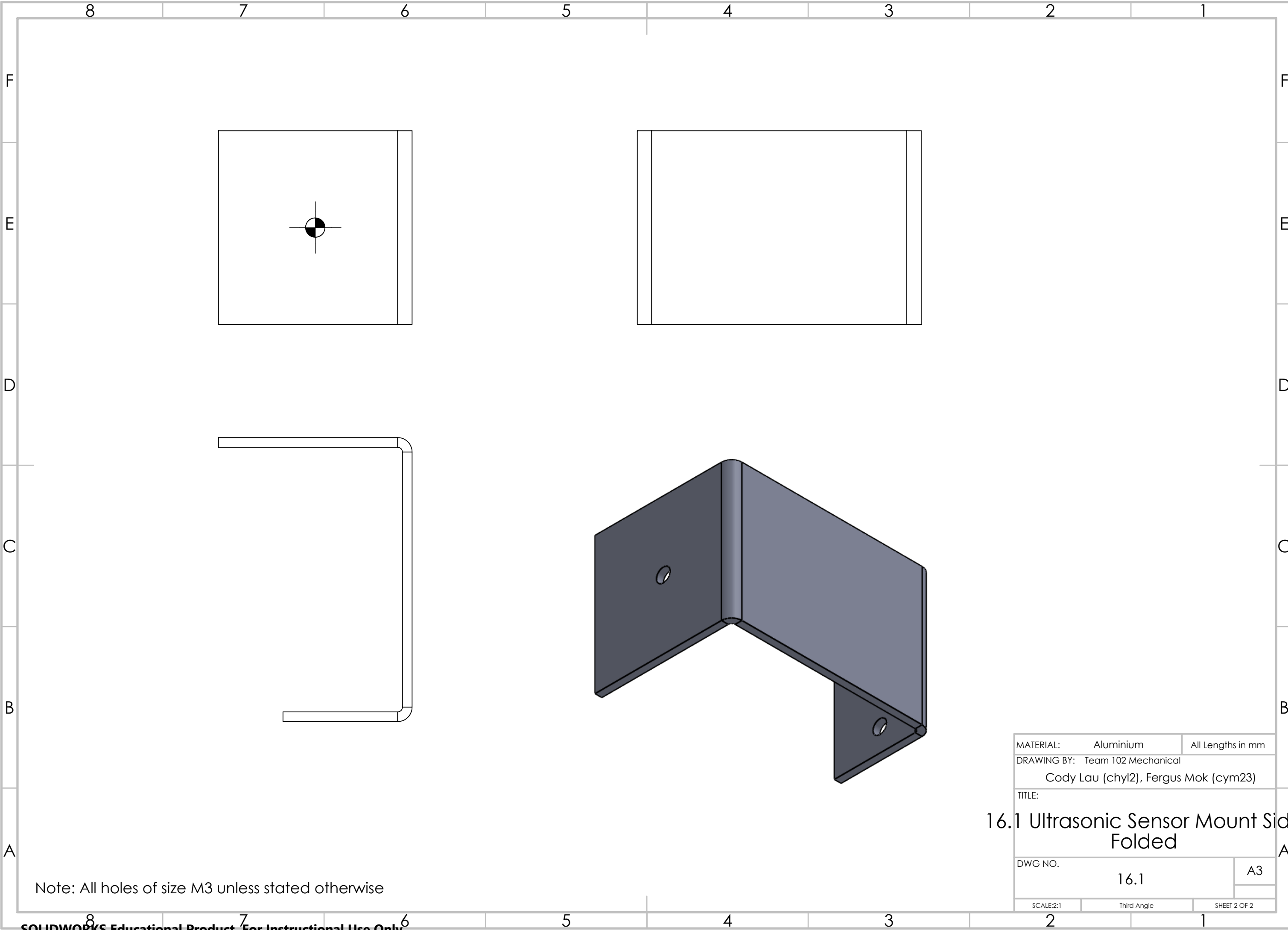
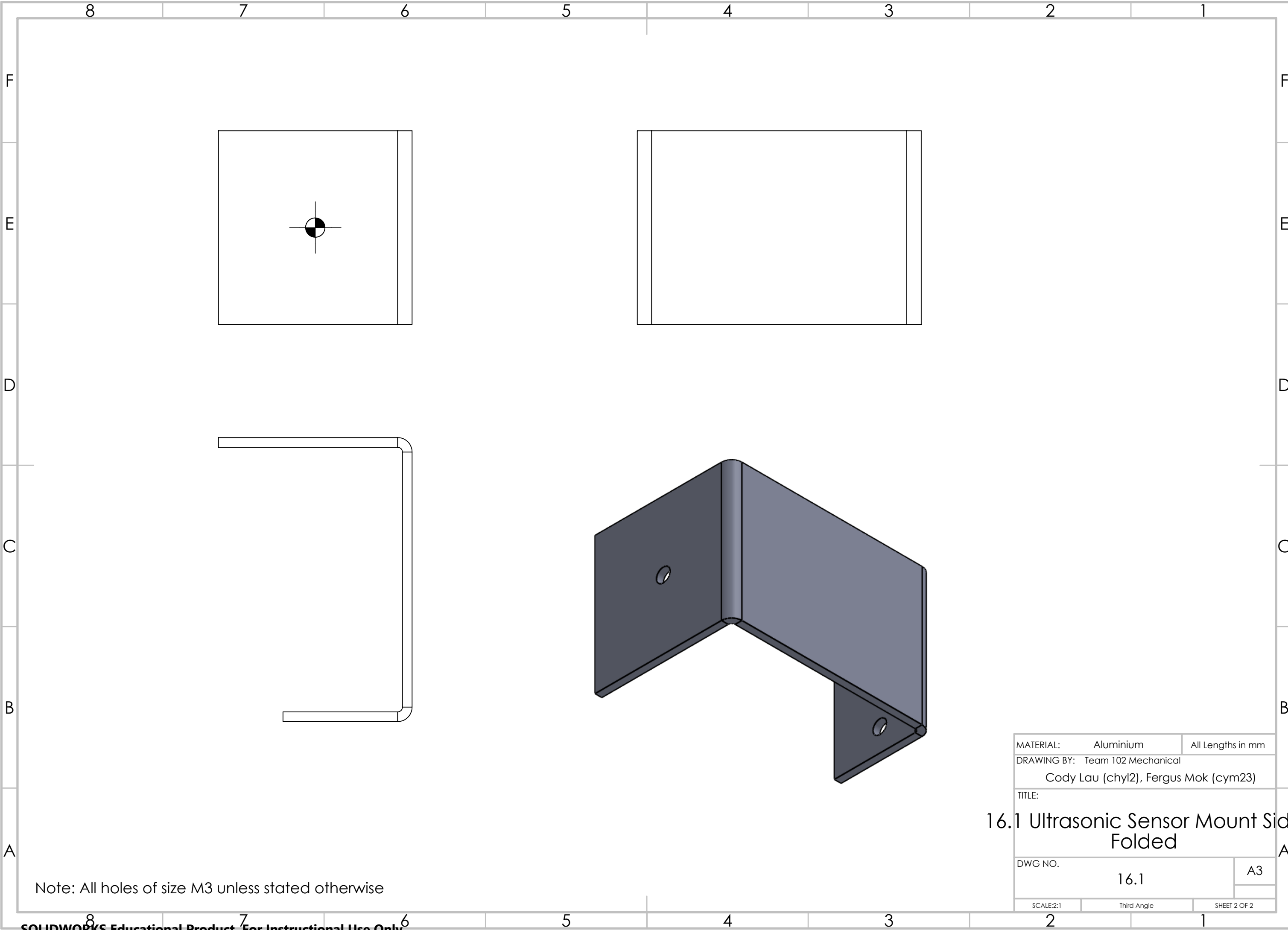
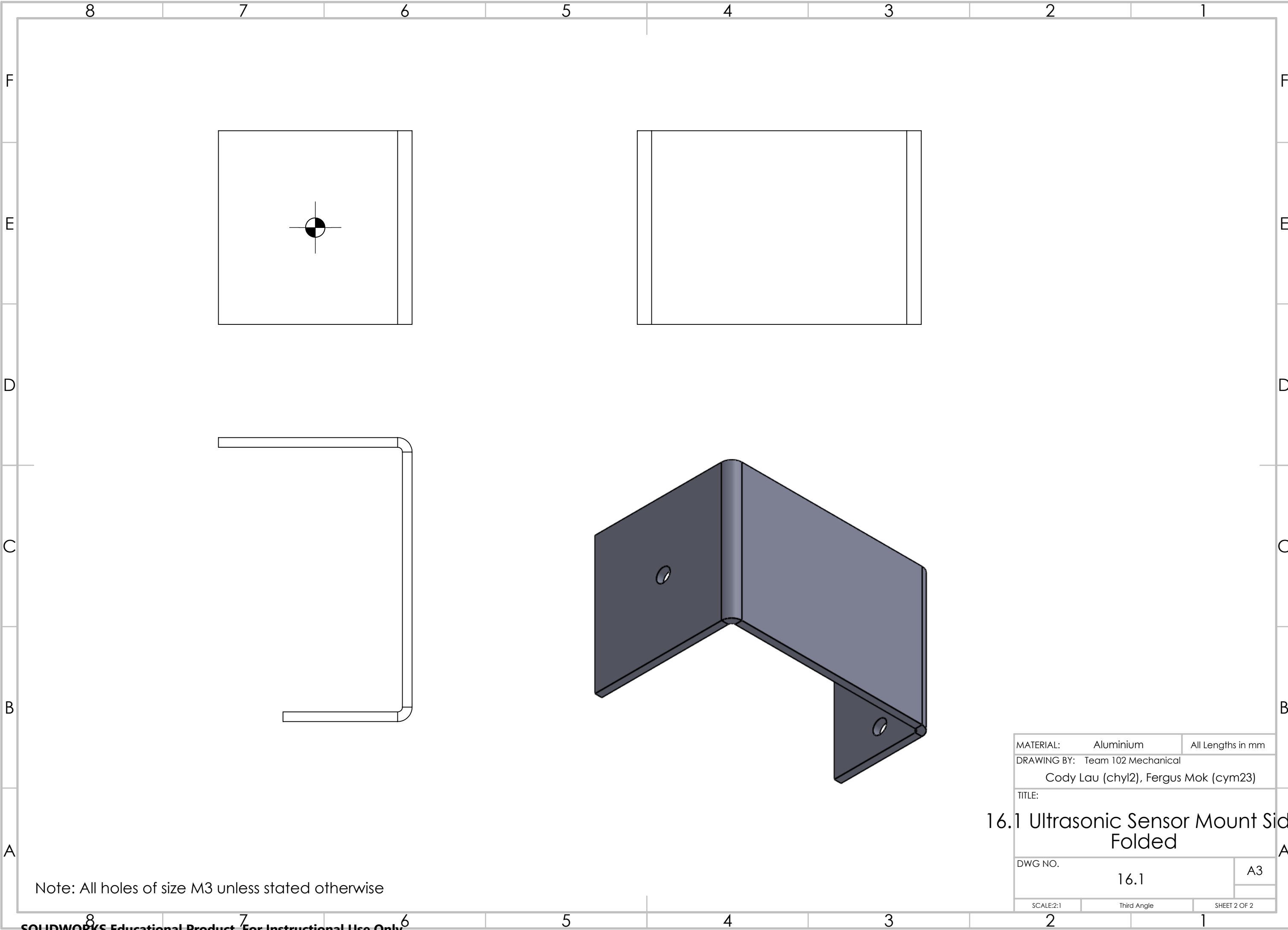
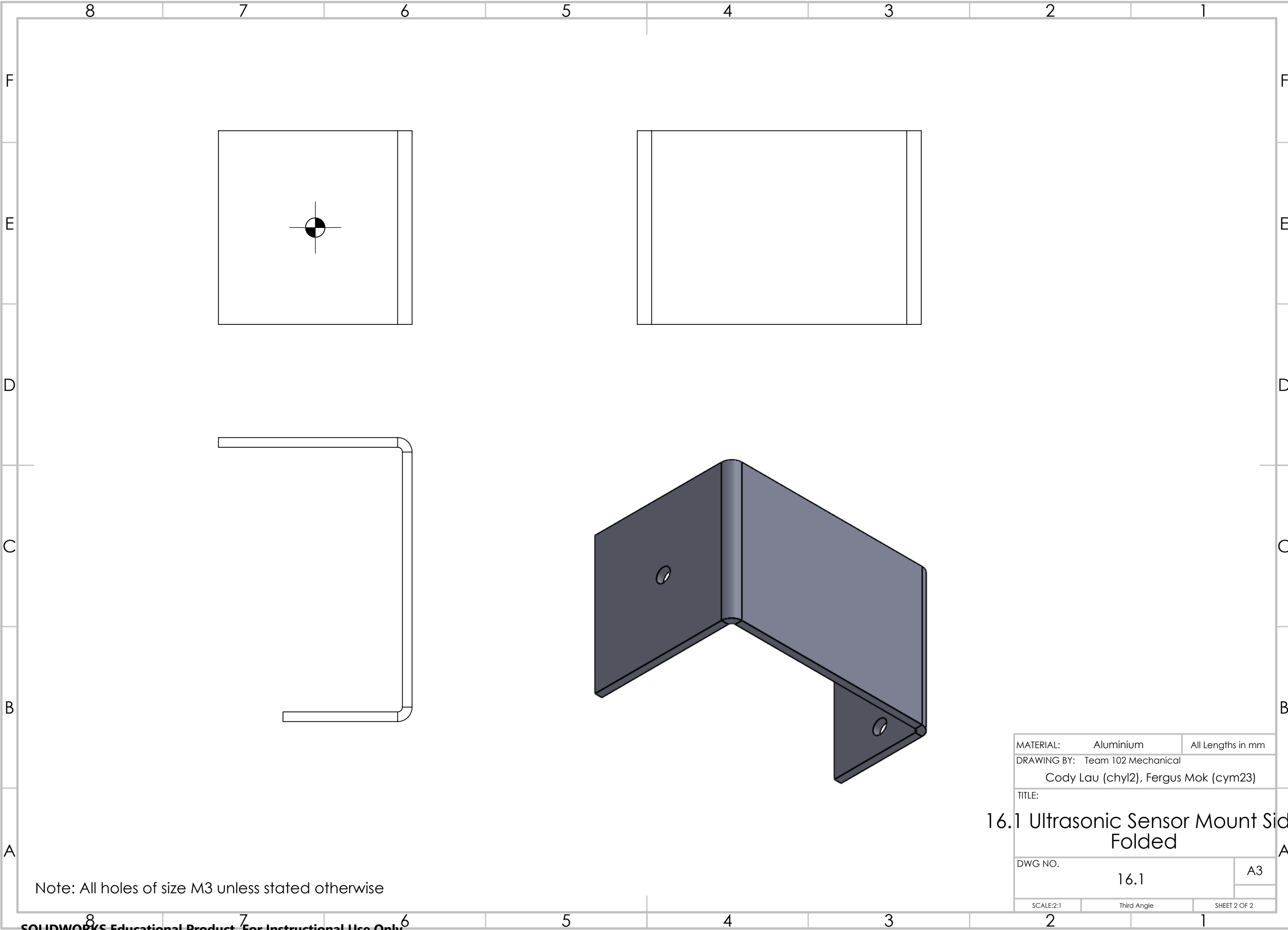
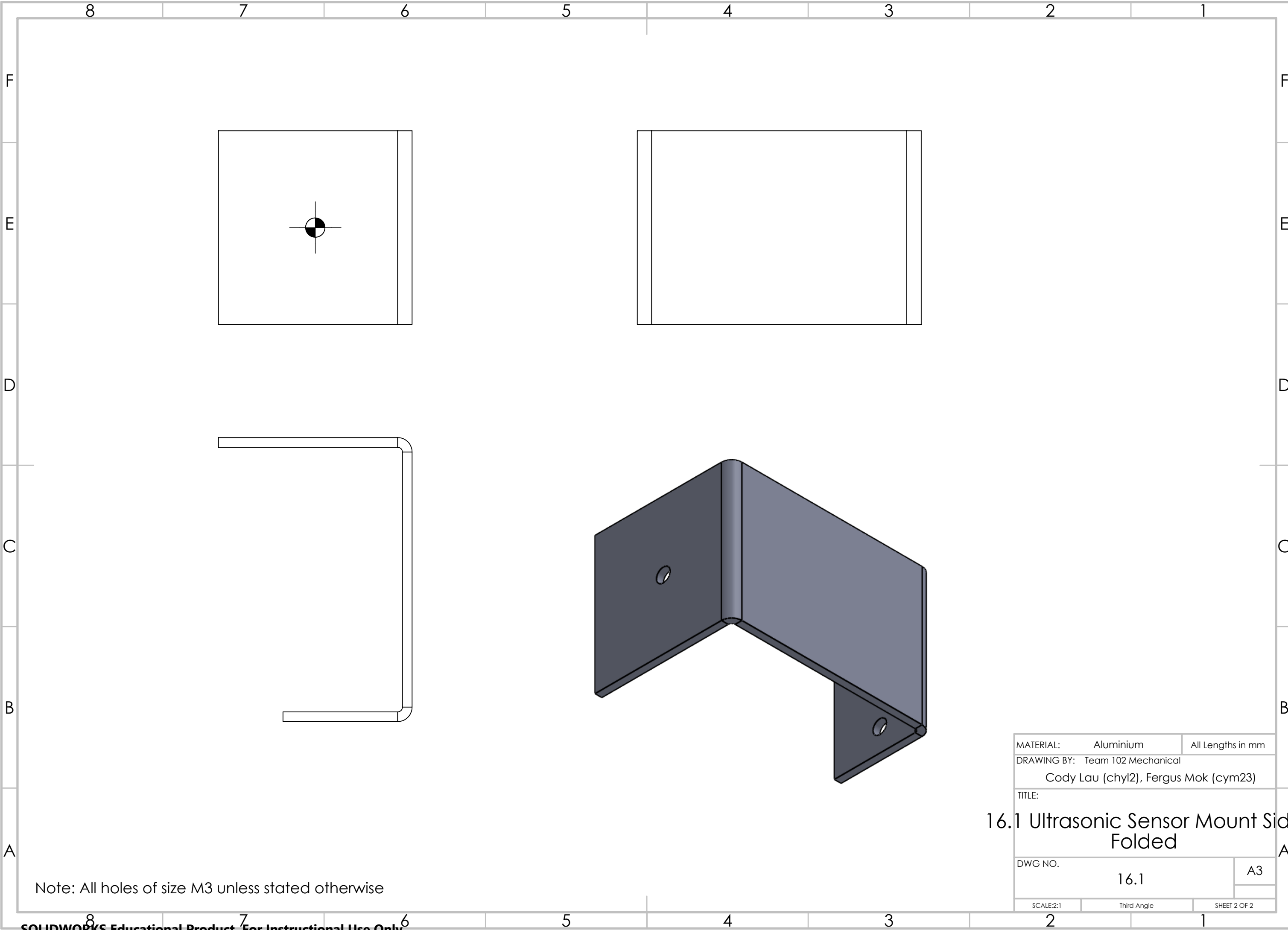
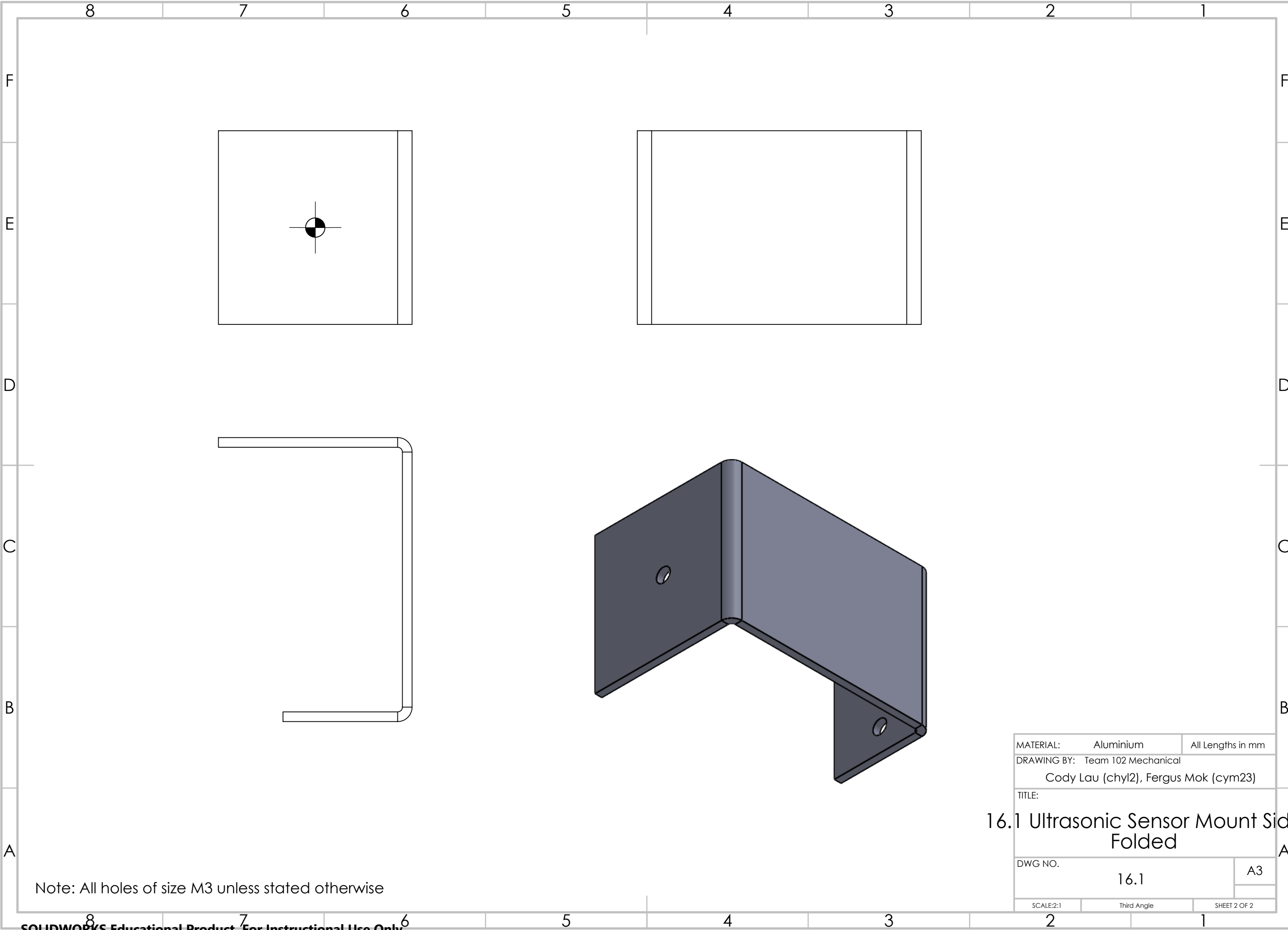
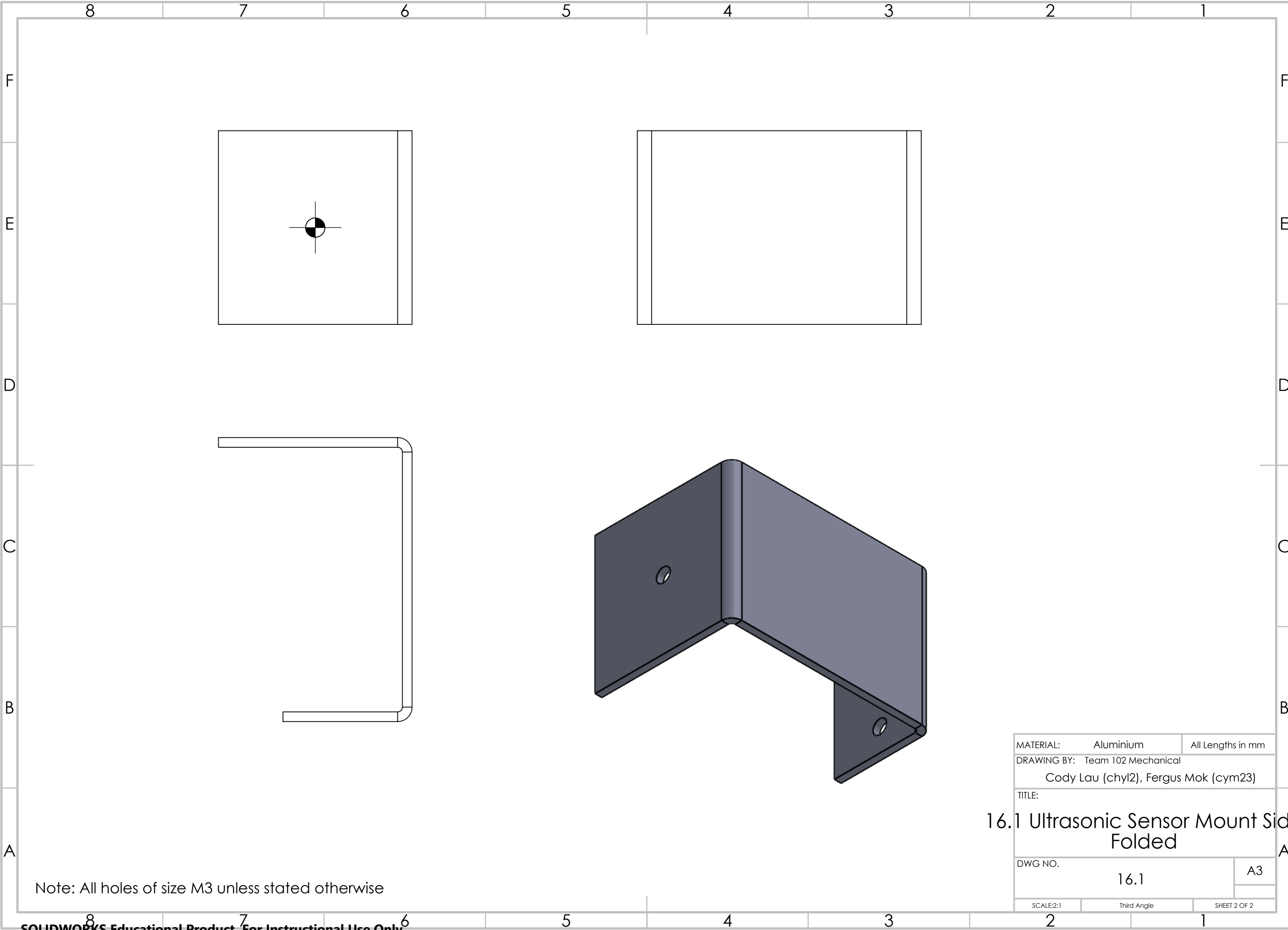
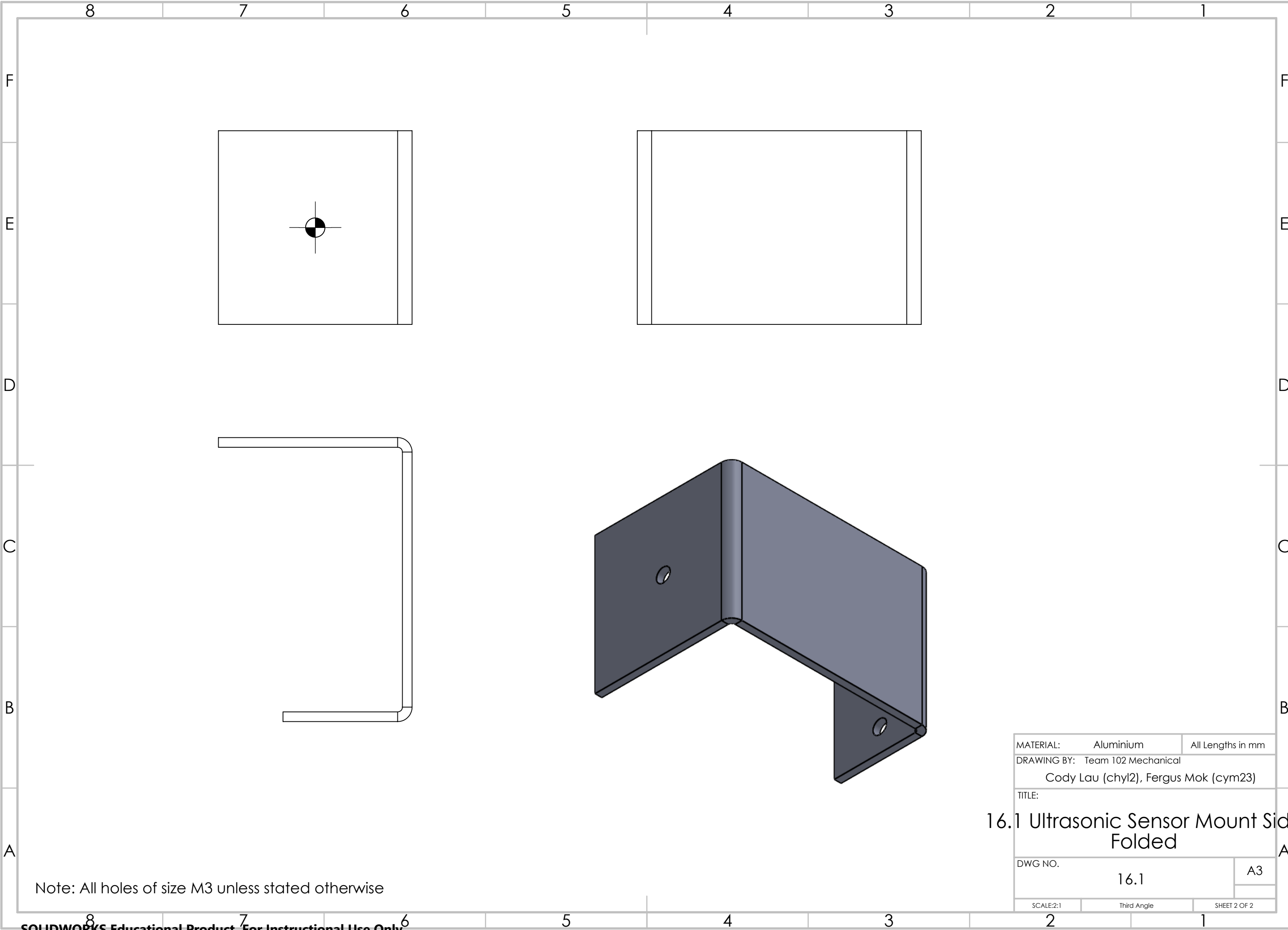
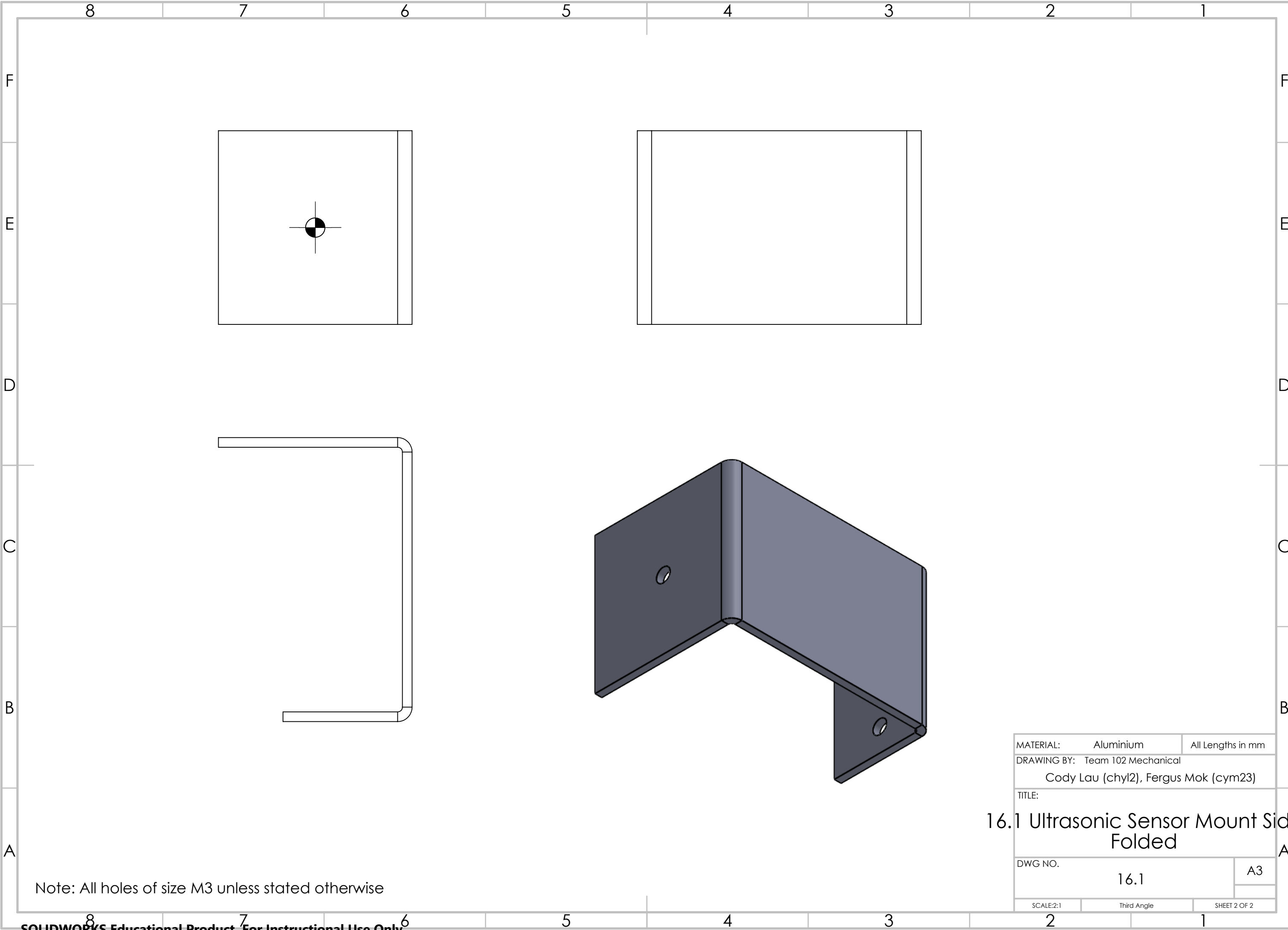
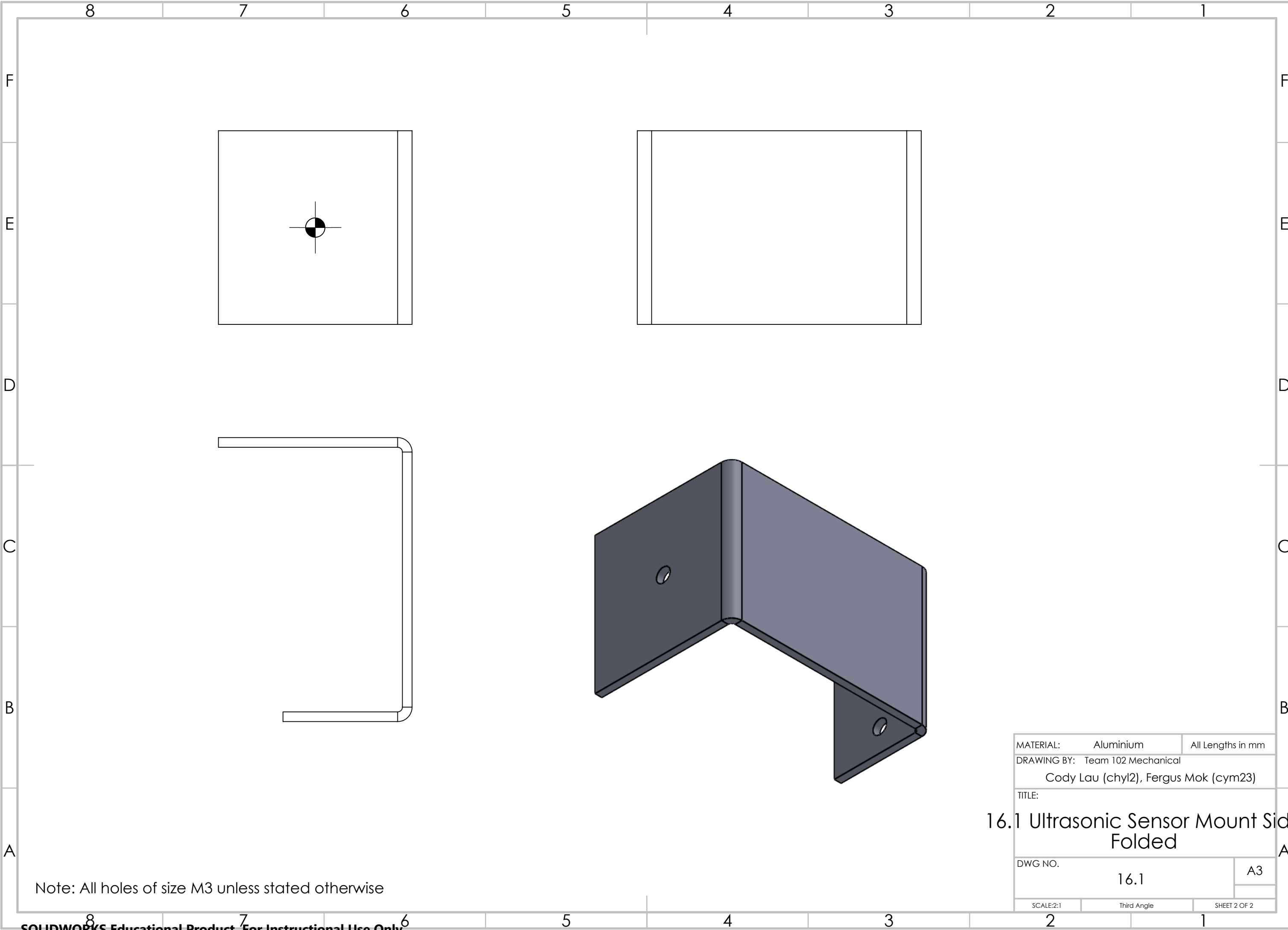
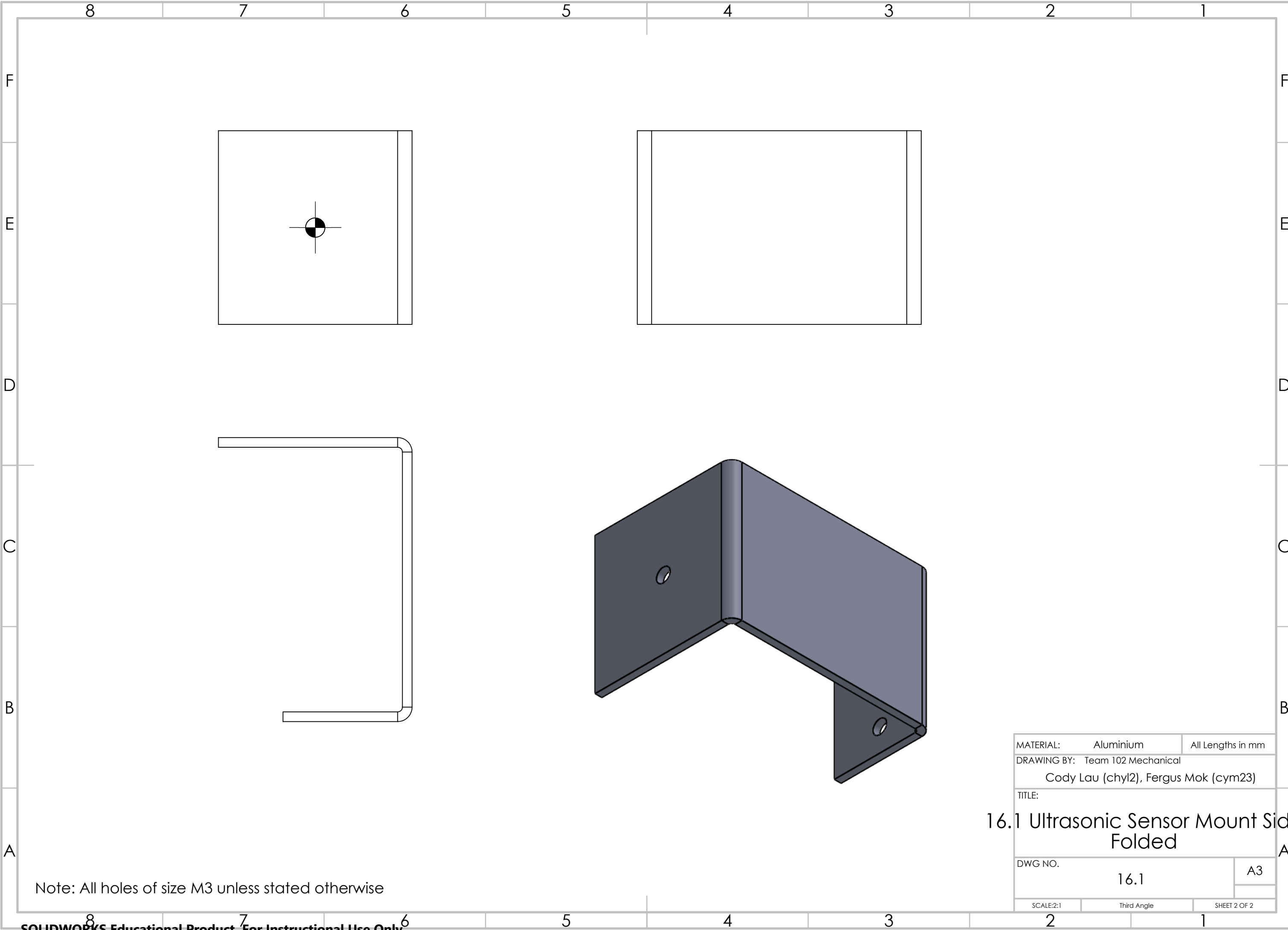
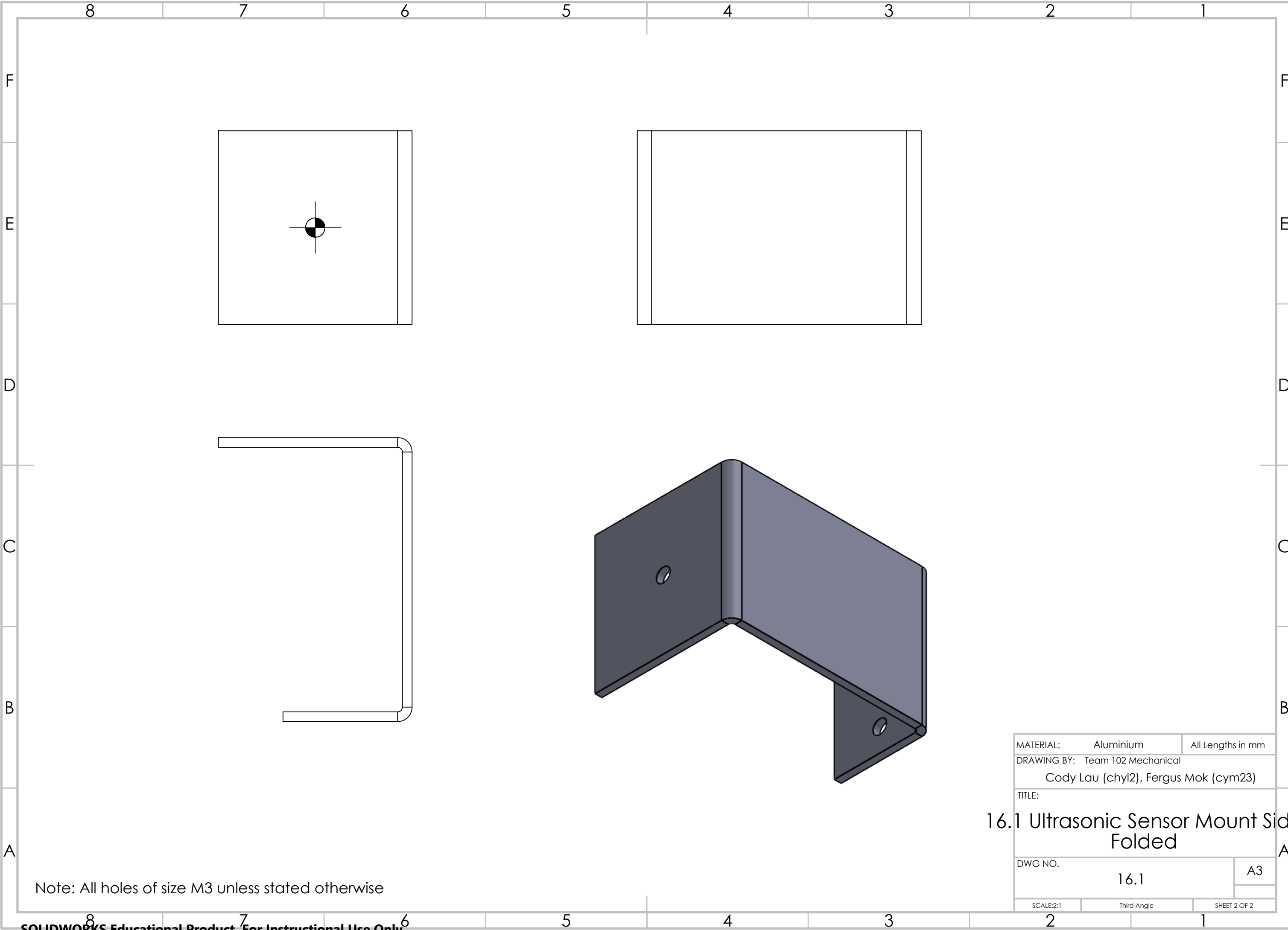
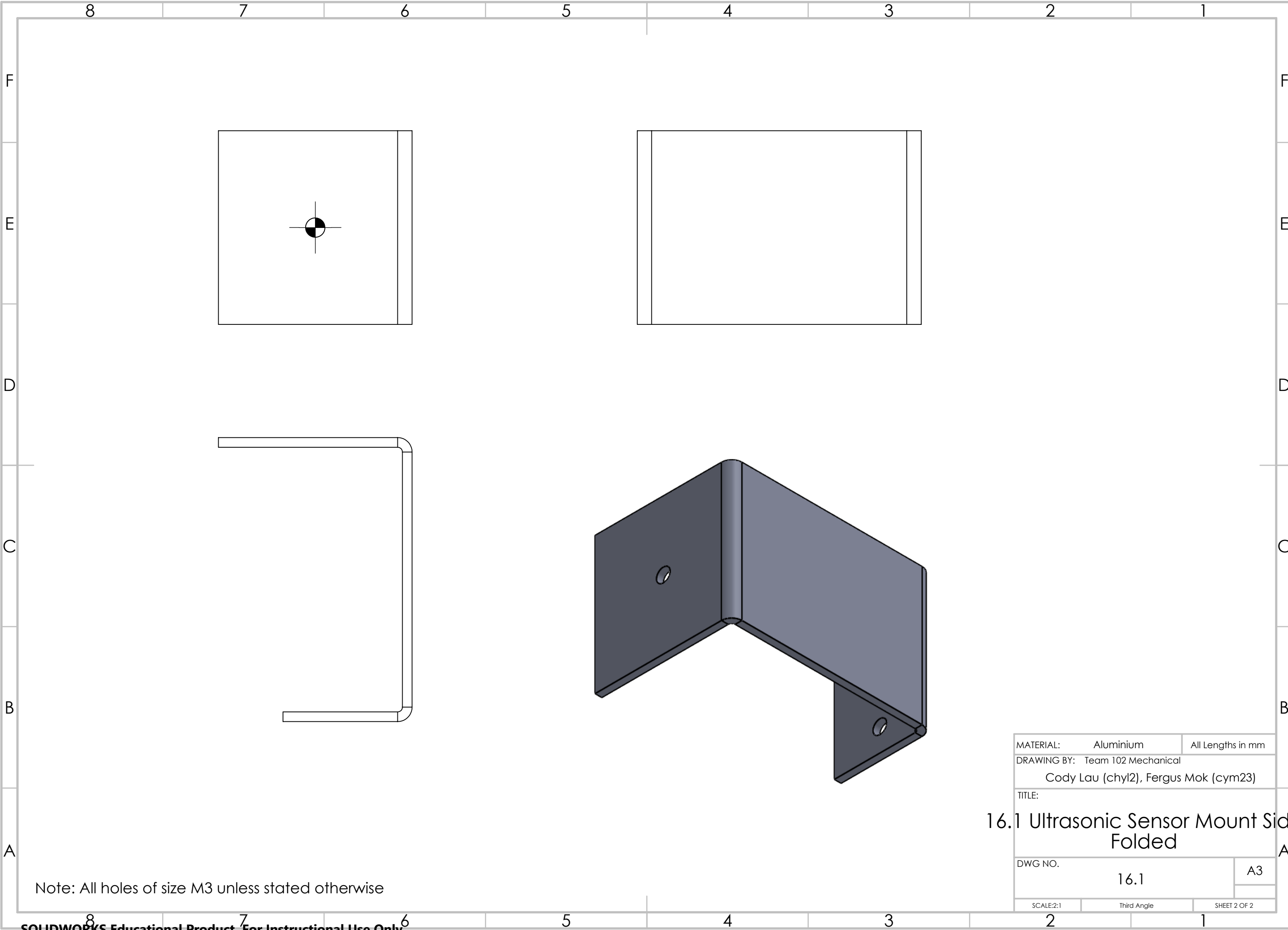
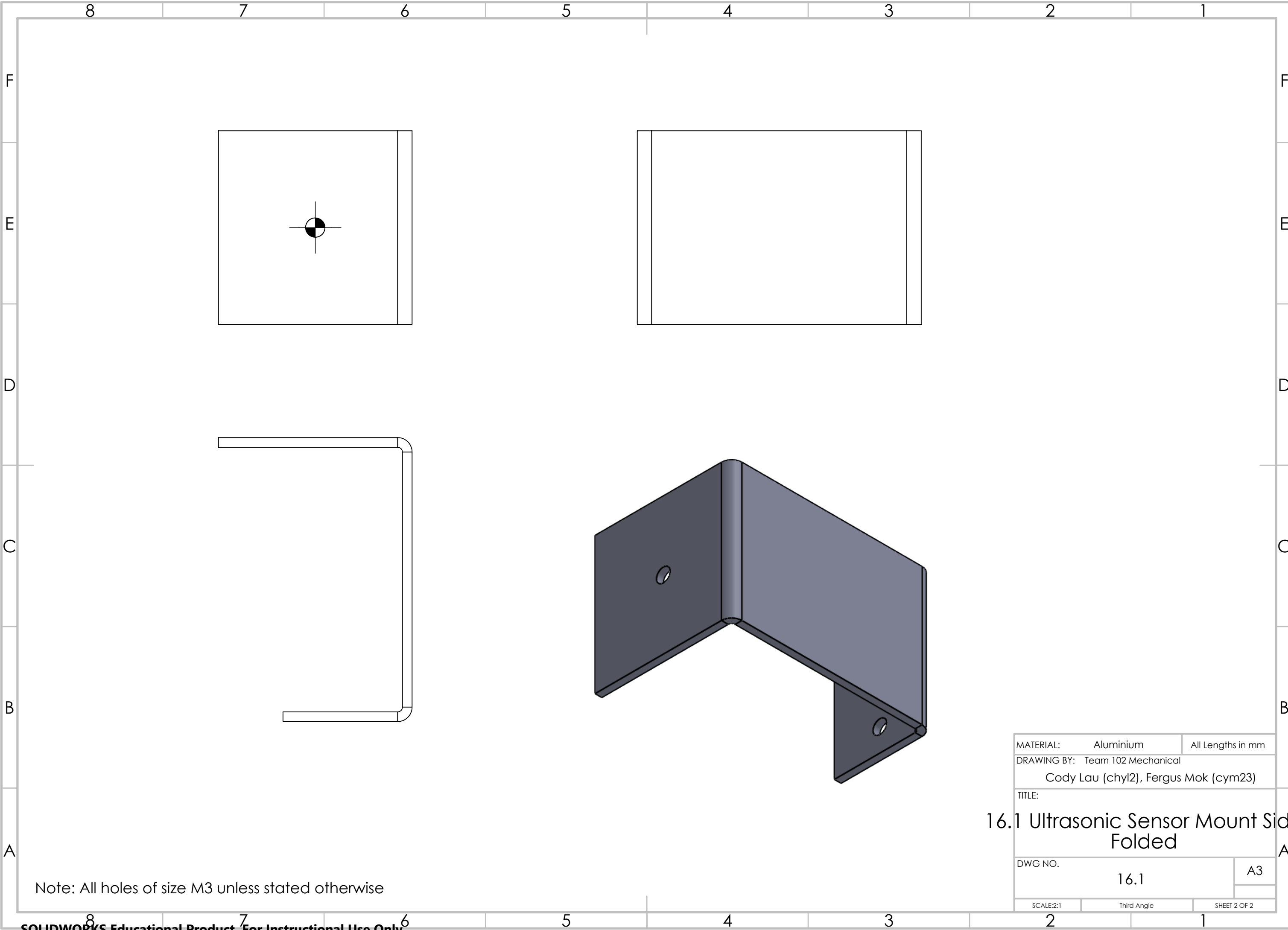
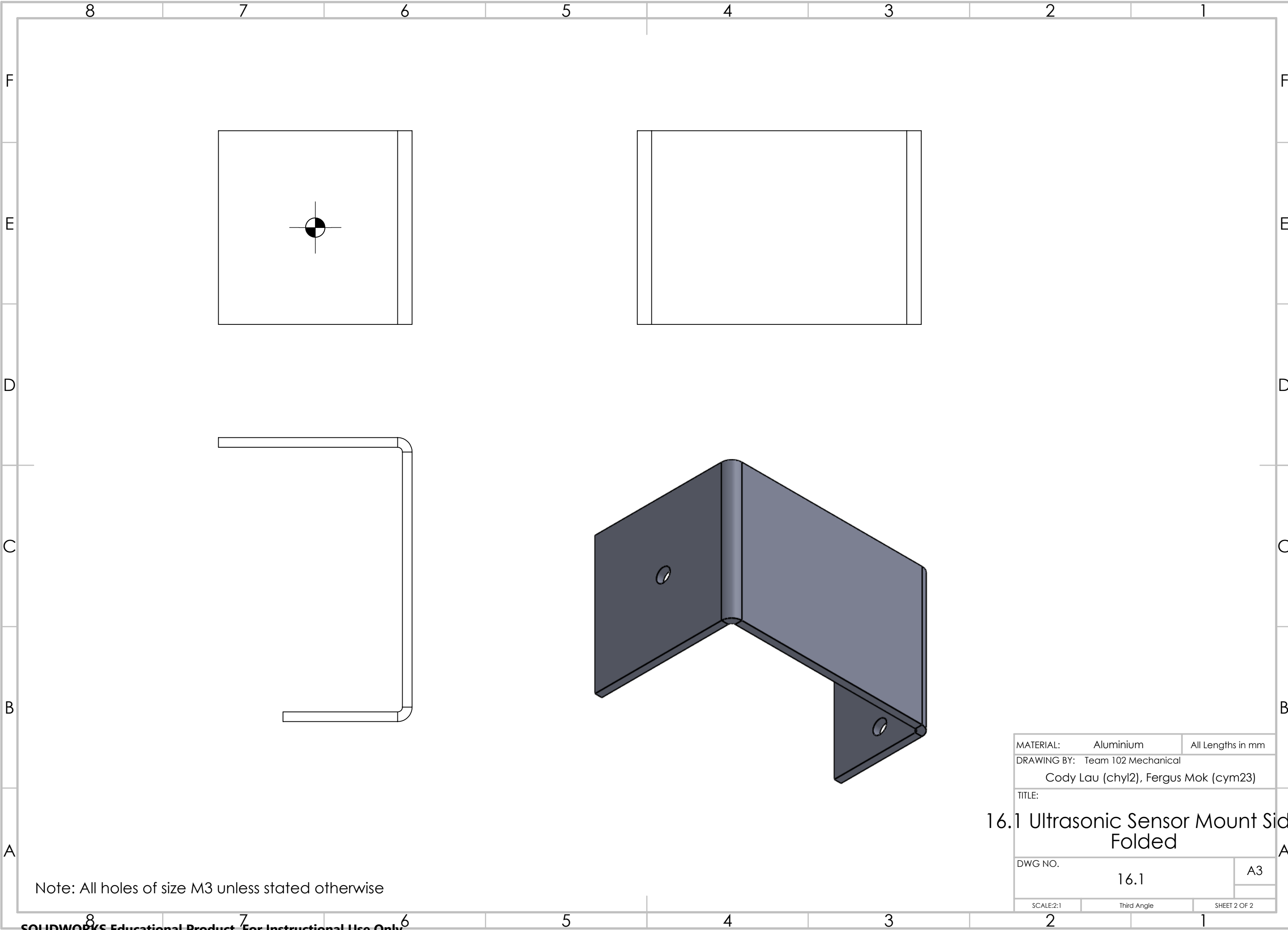
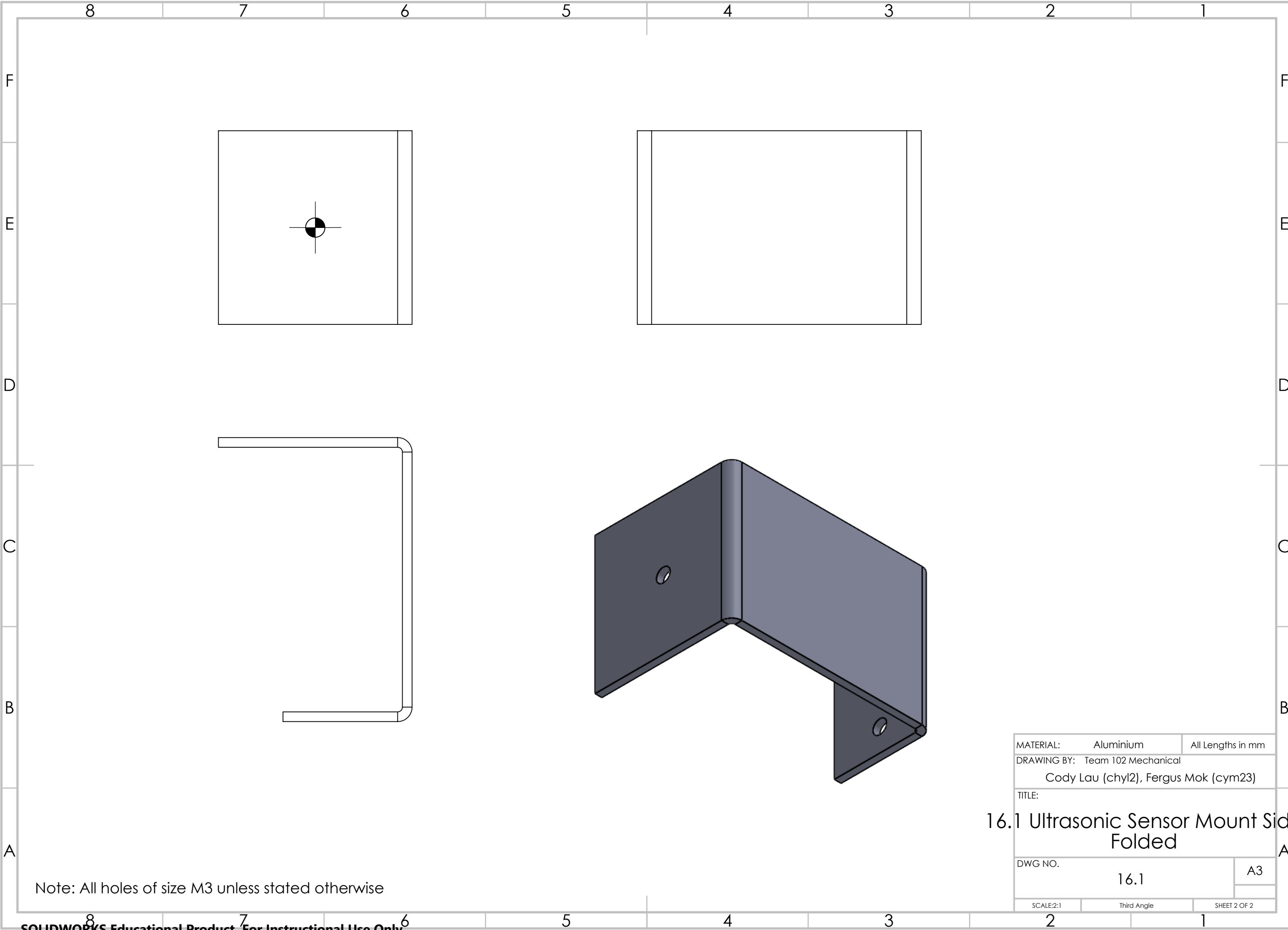
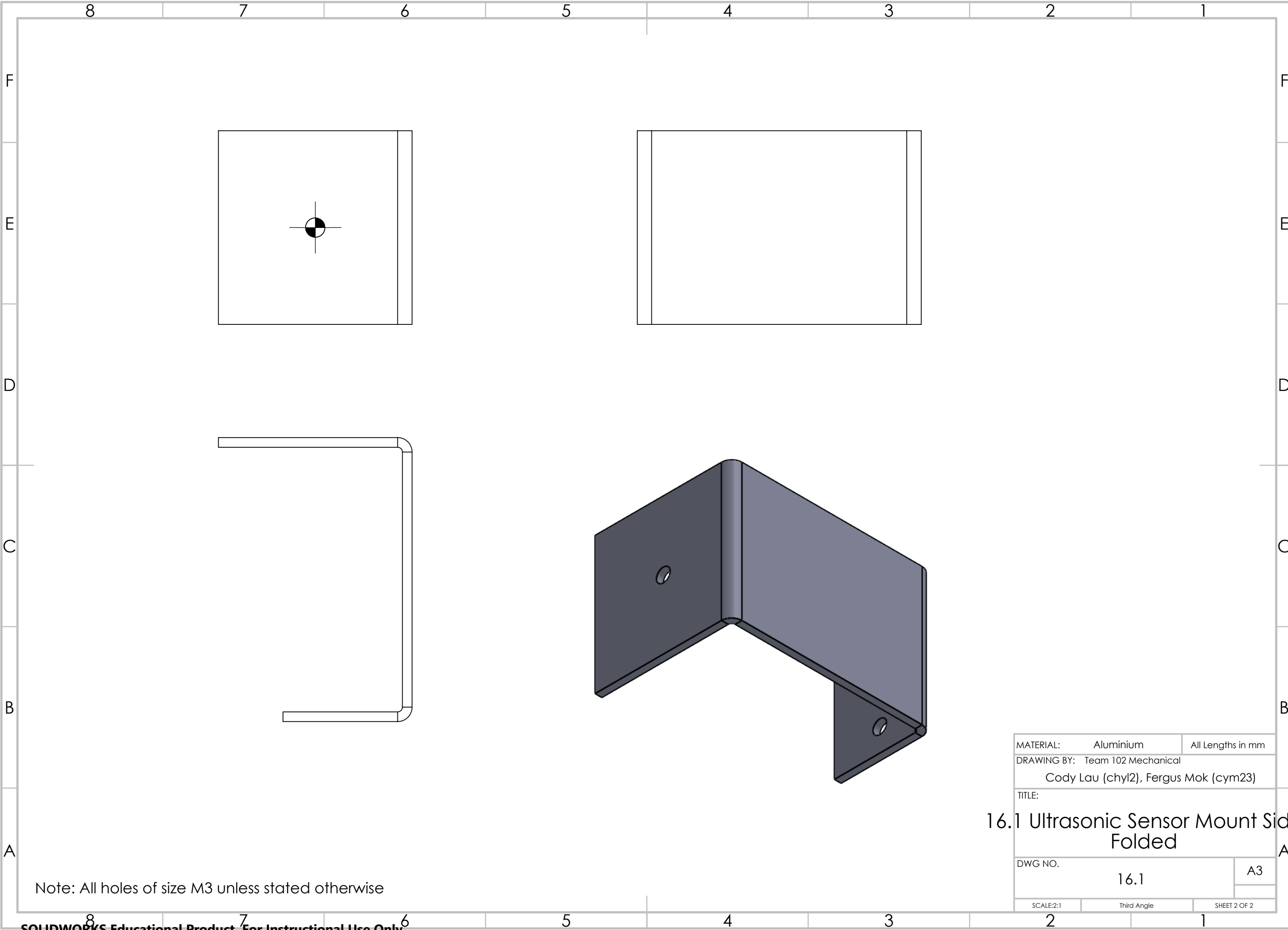
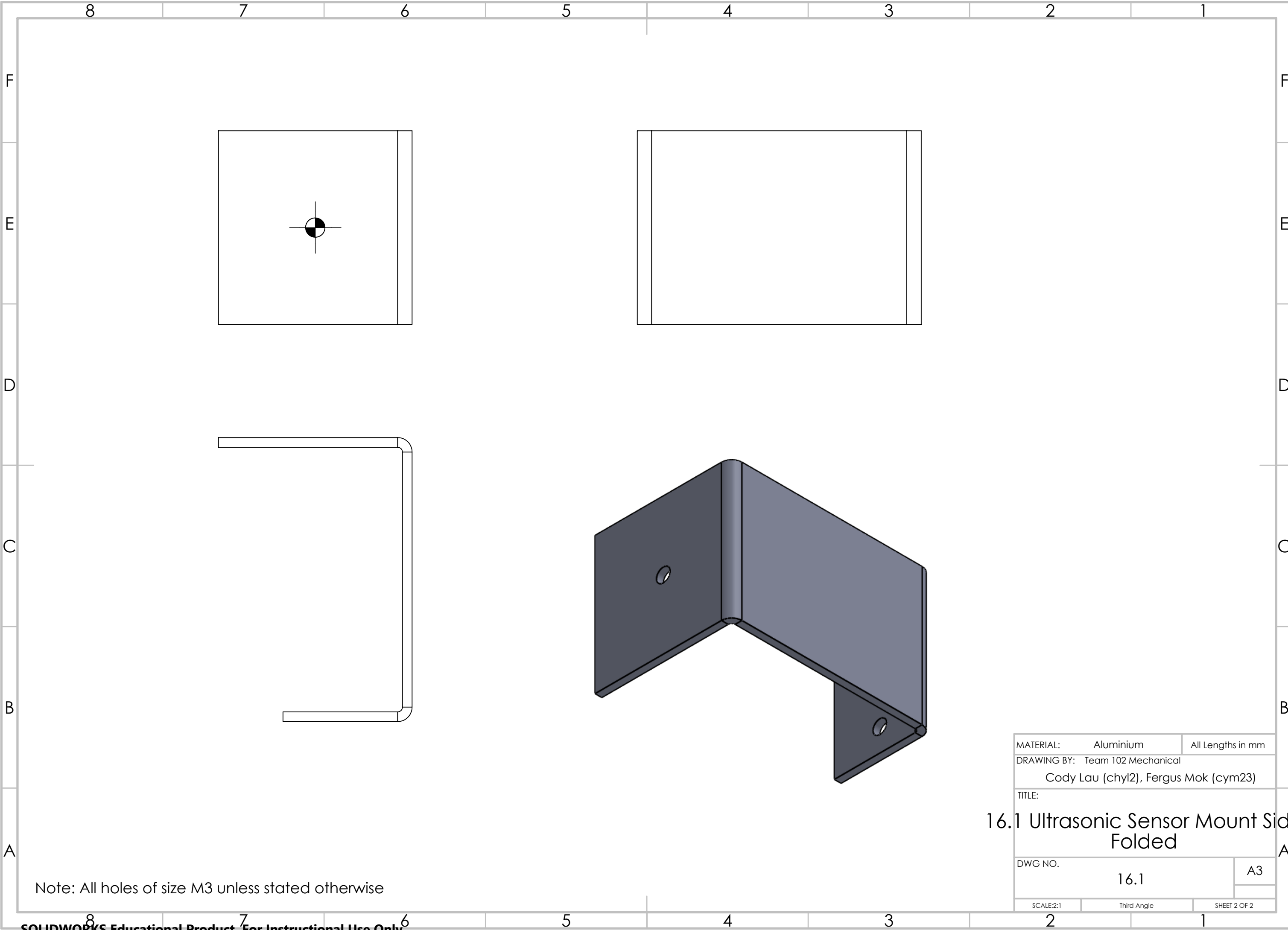
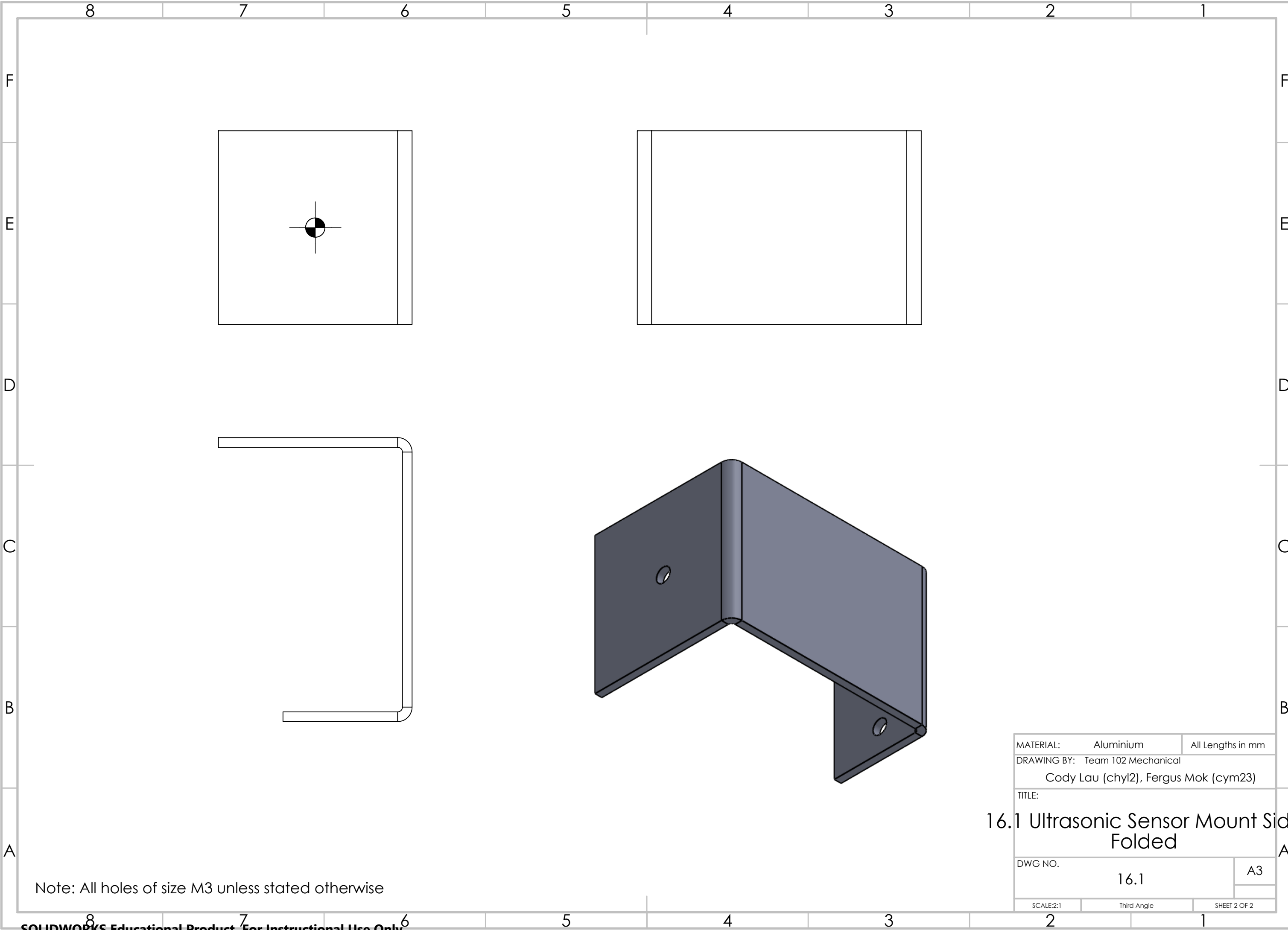
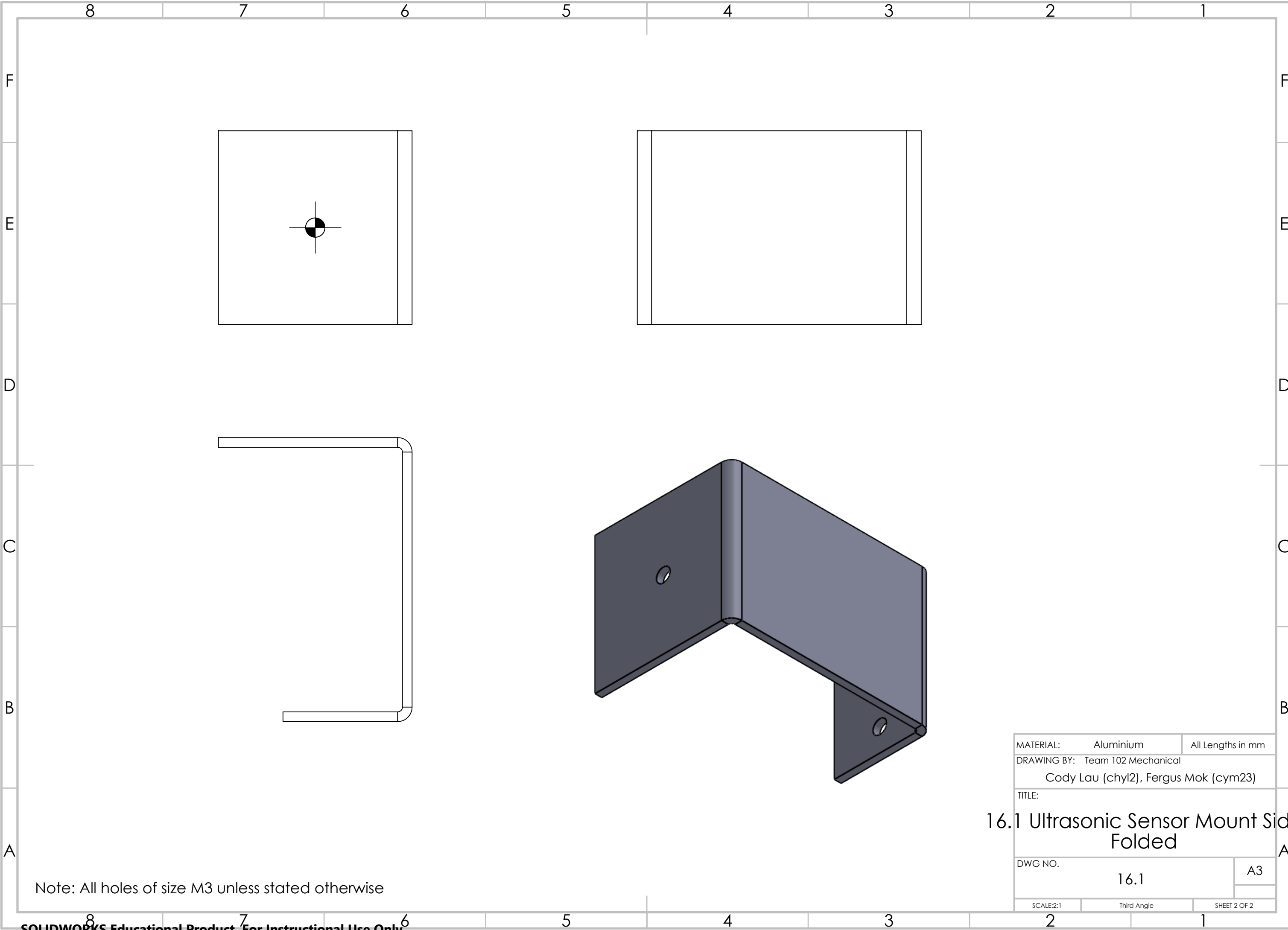
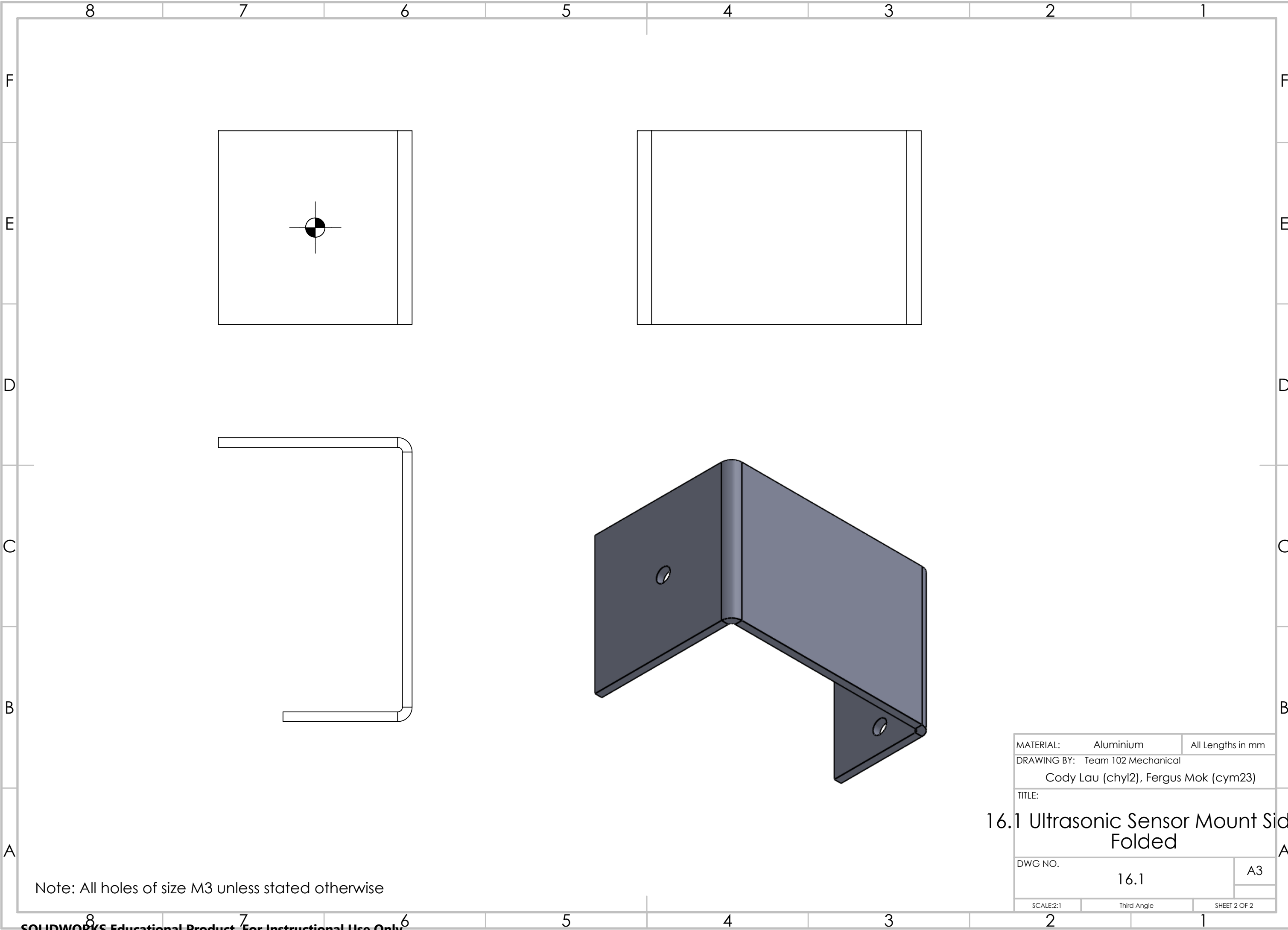
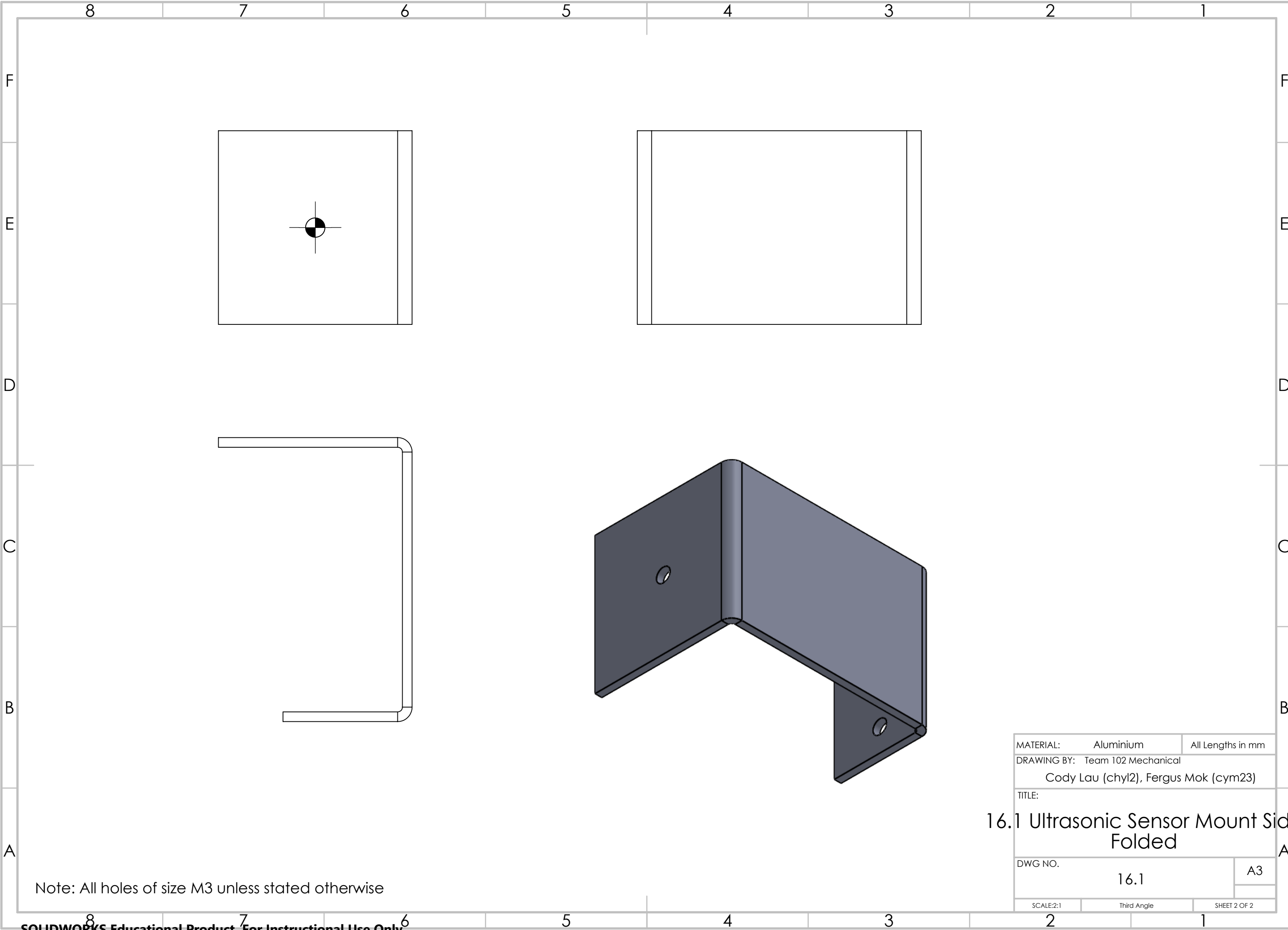
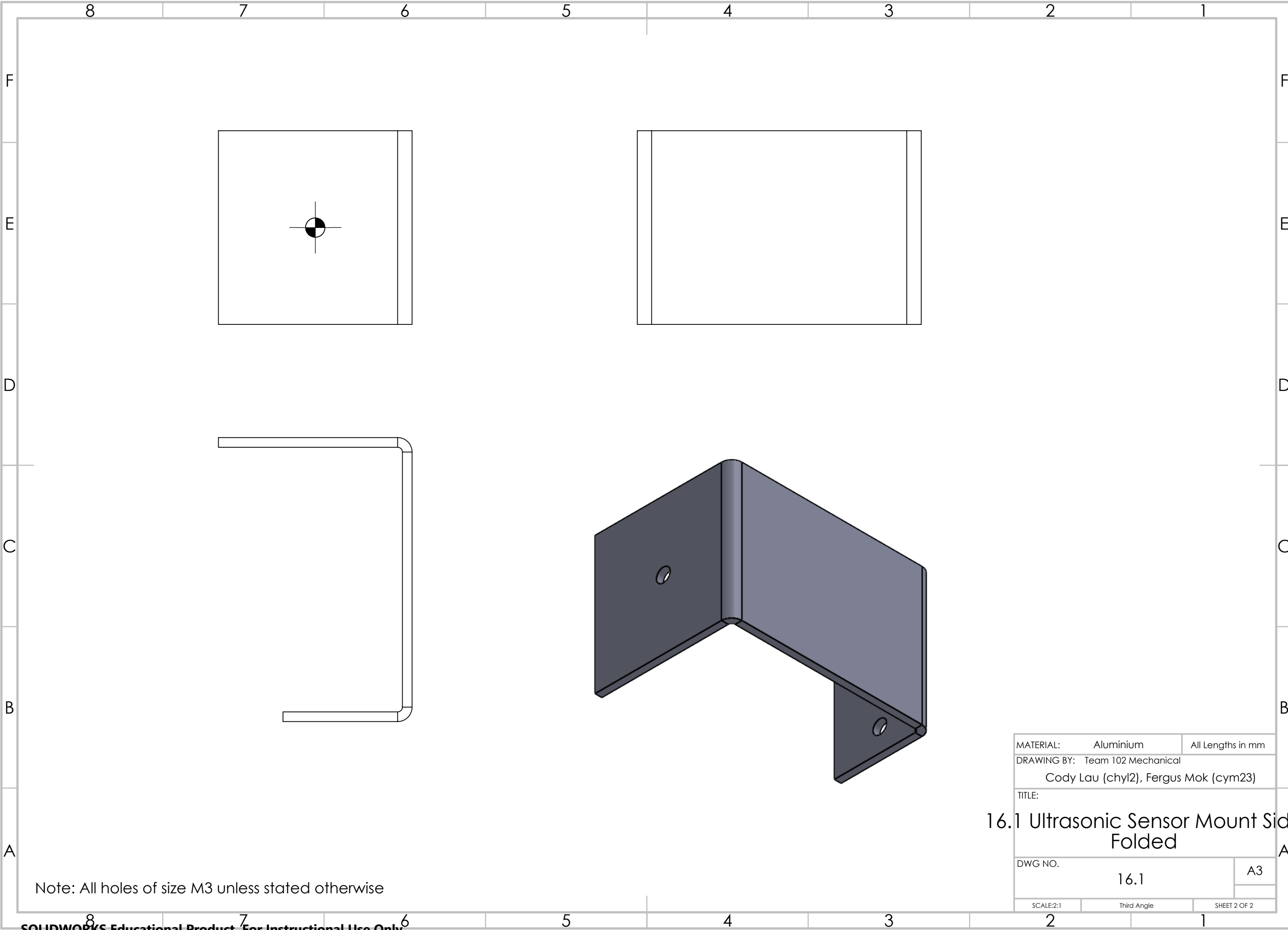
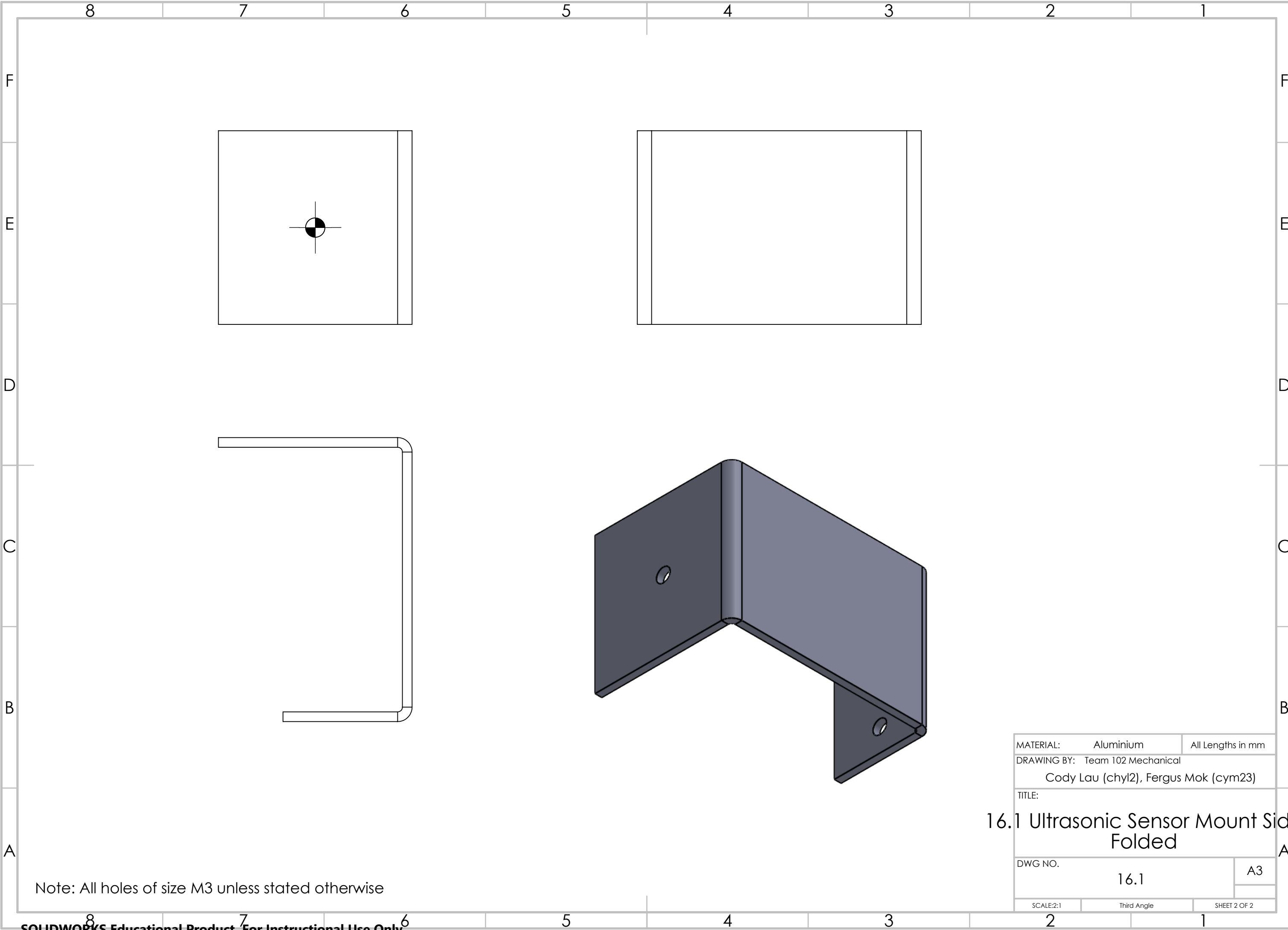
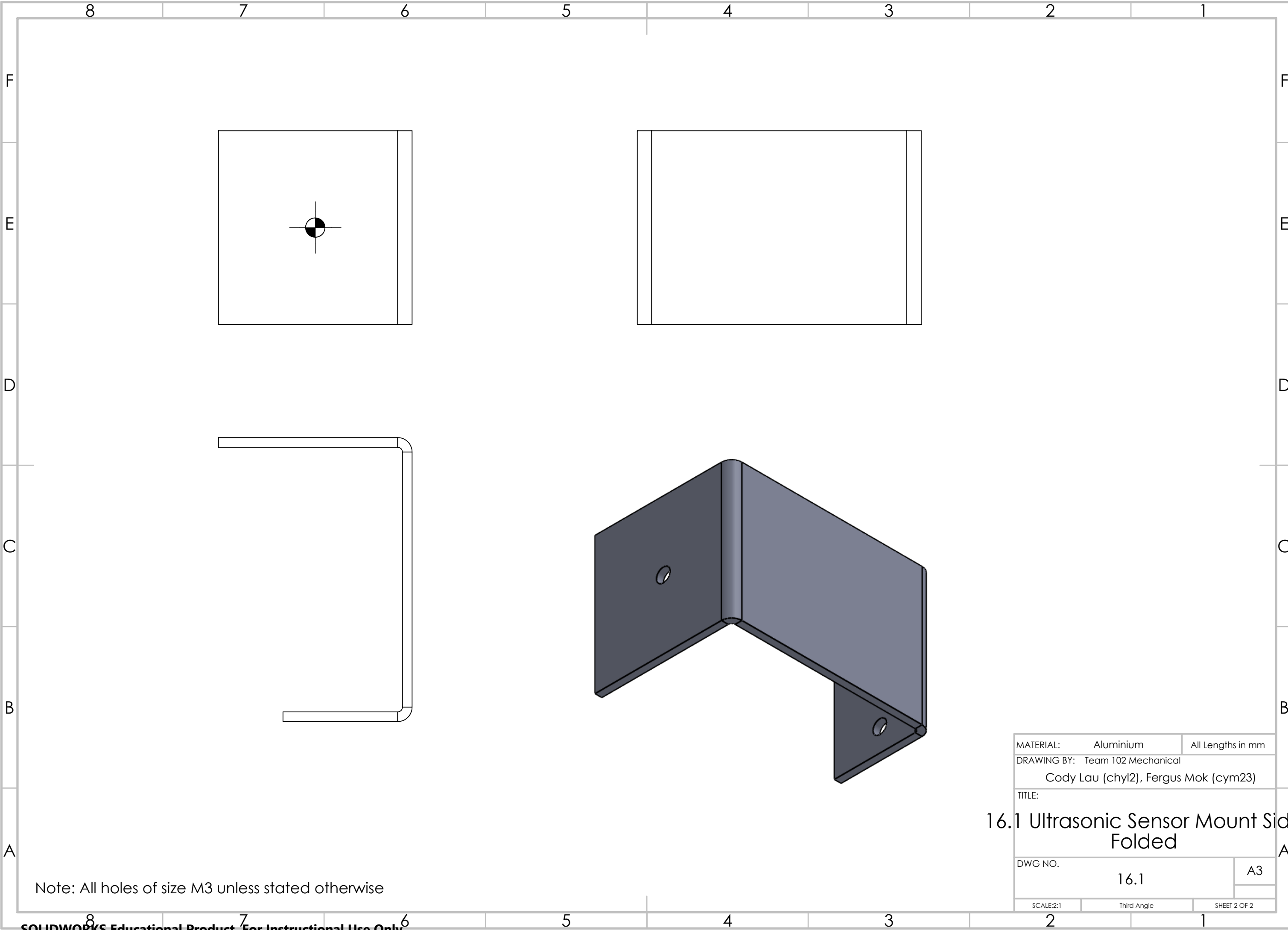
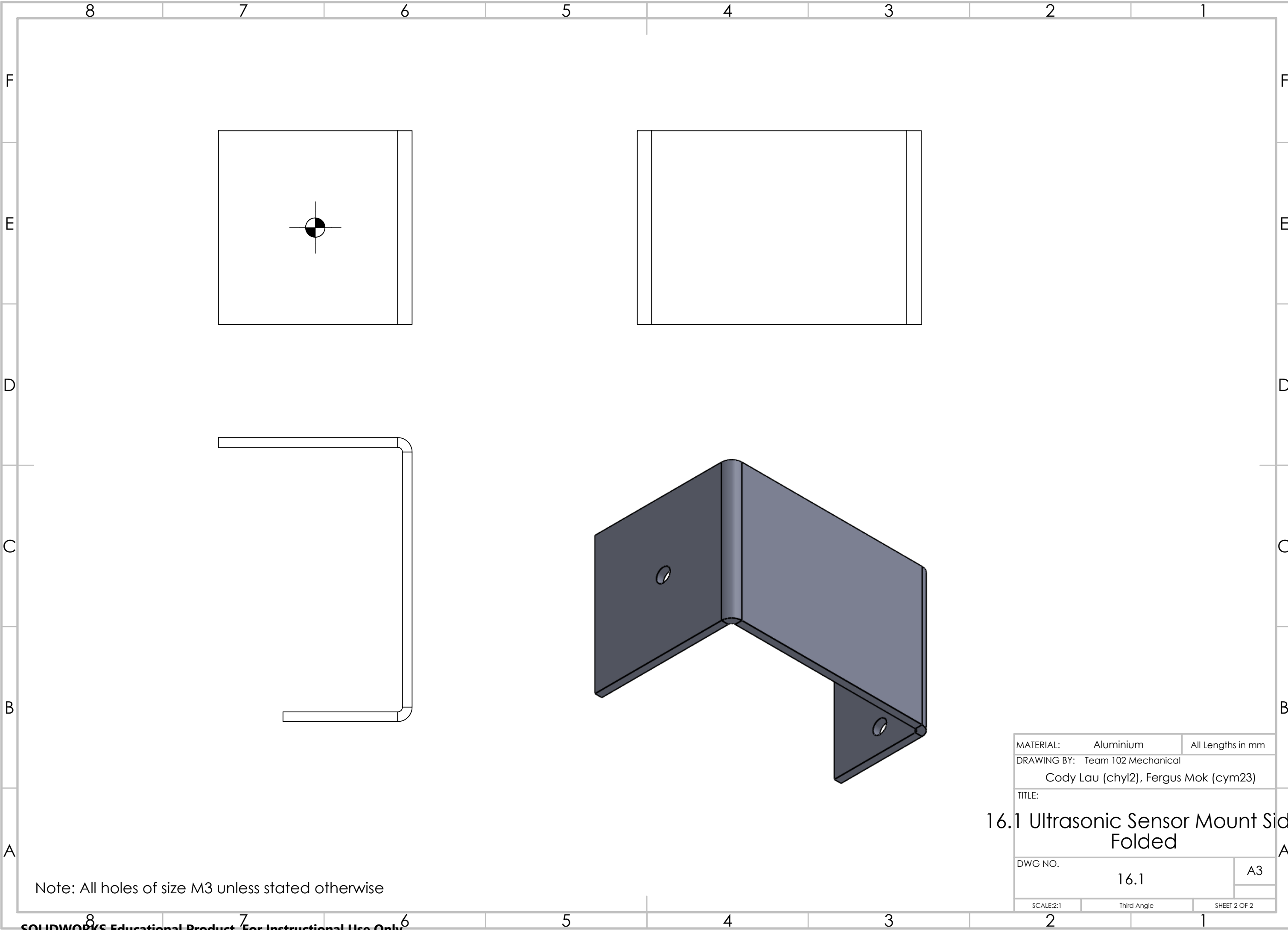
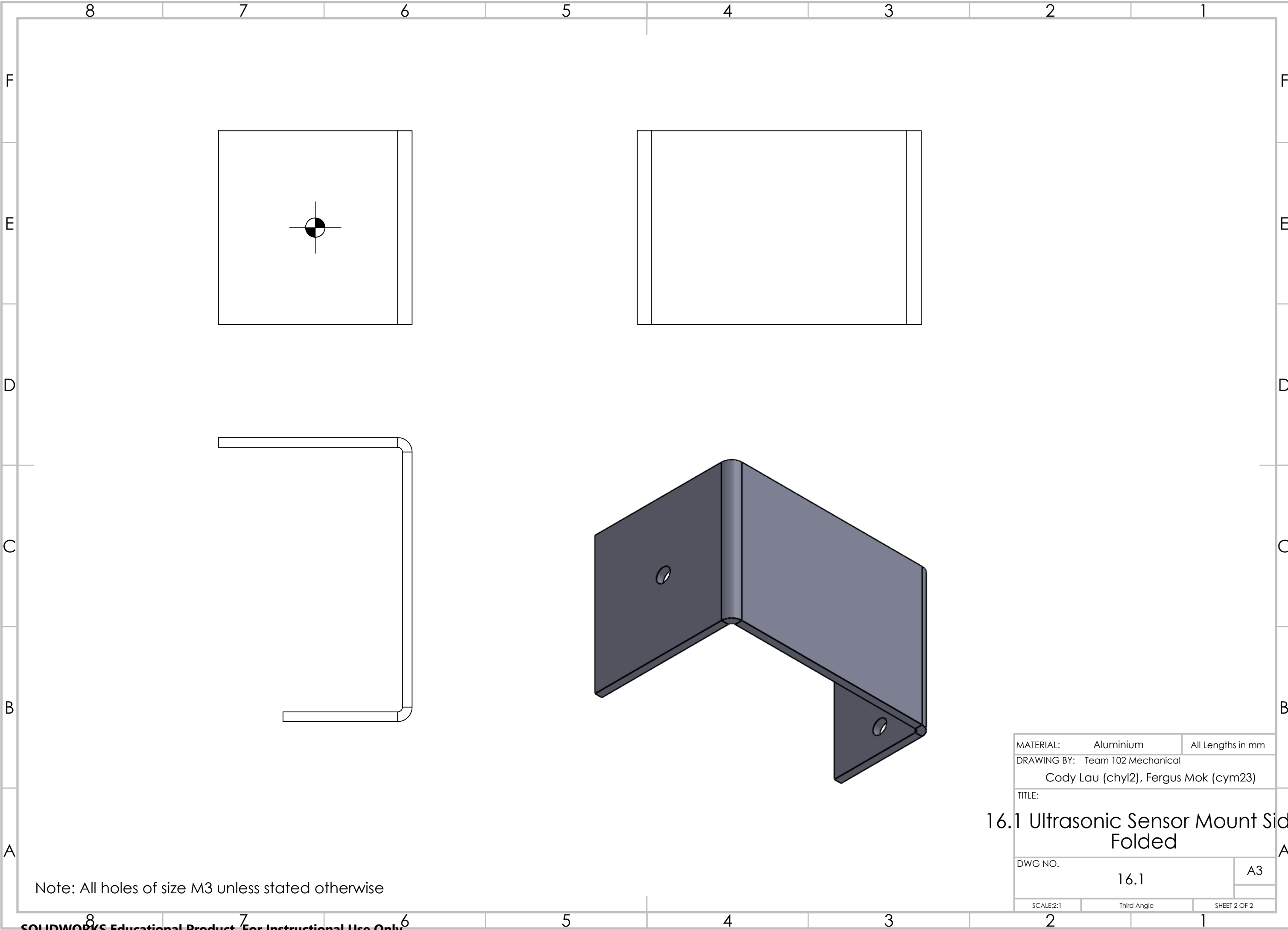
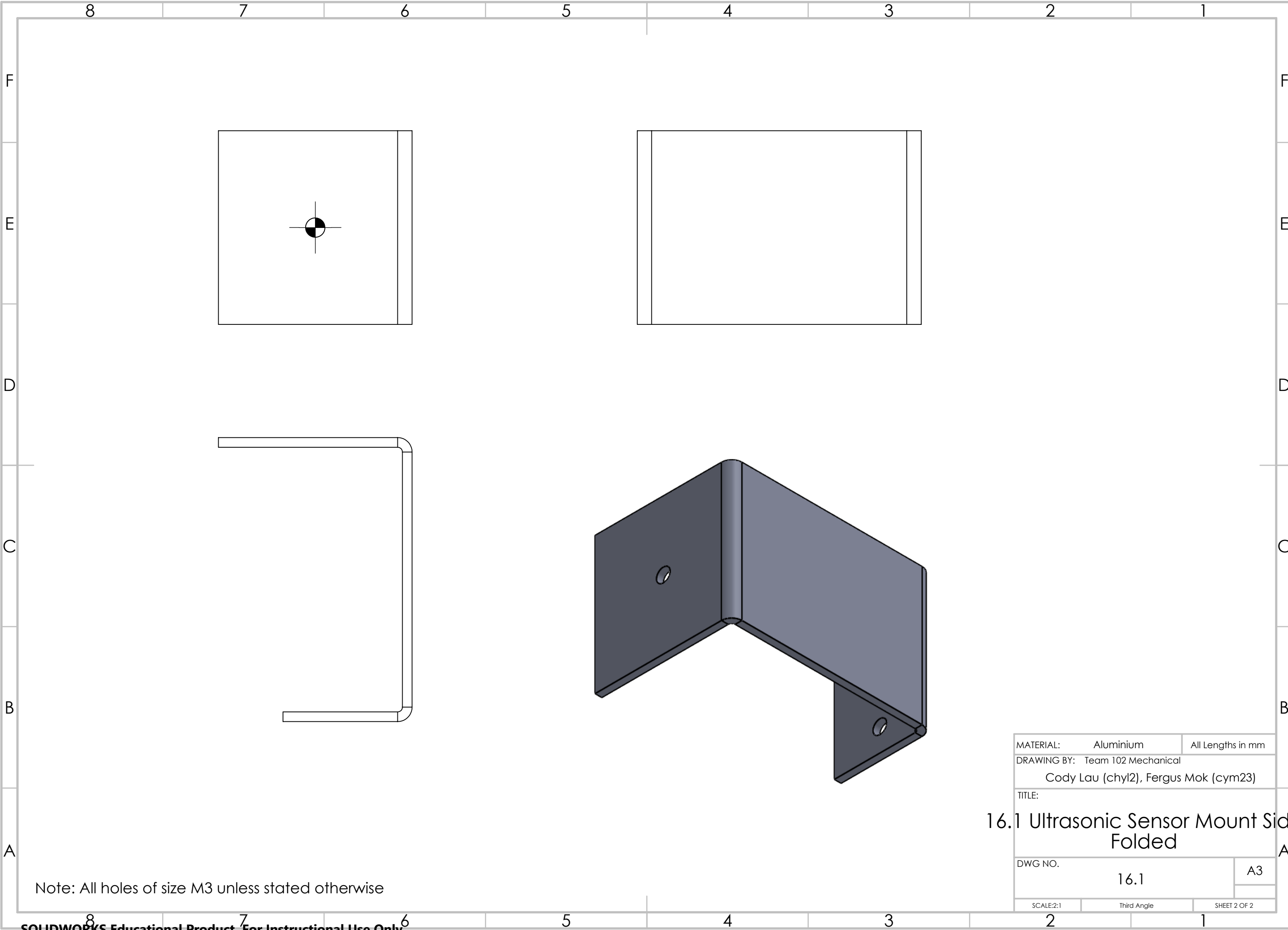
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	16 Ultronic Sensor Side Assembly	
DWG NO.	16	A3
SCALE:1:1	Third Angle	SHEET 1 OF 1

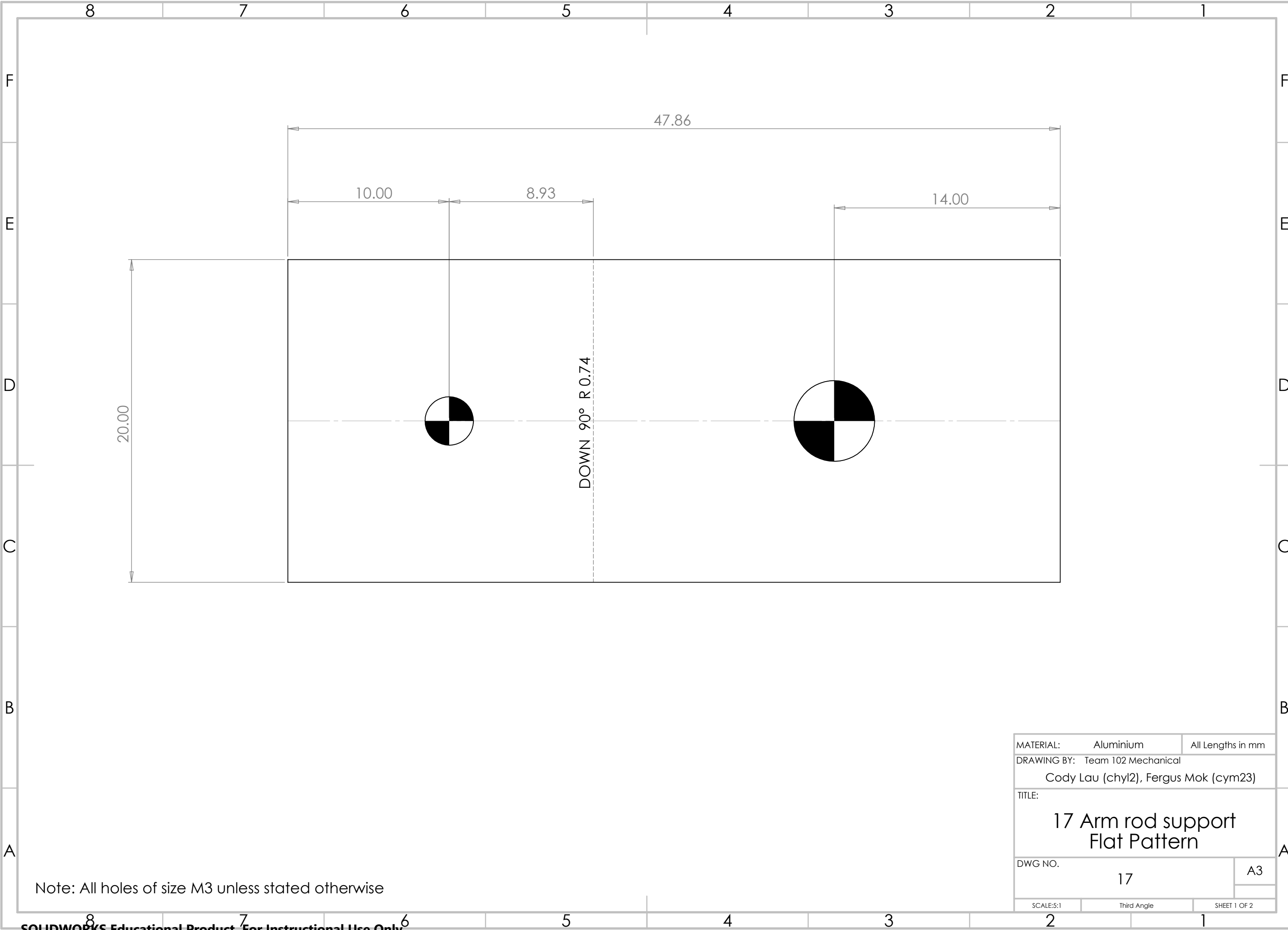


Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	16.1 Ultrasonic Sensor Mount Side Flat Pattern	
DWG NO.	16.1	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2

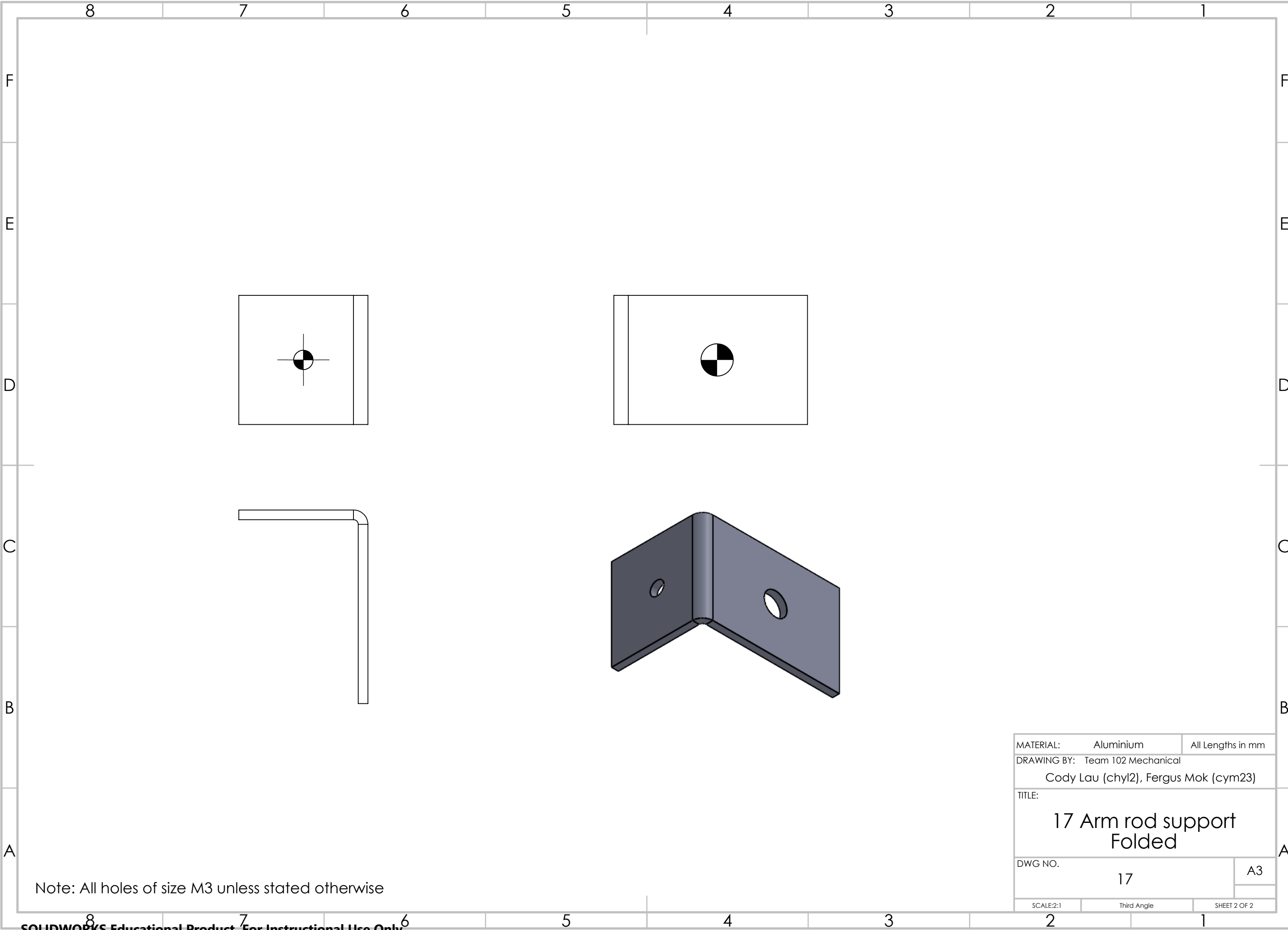


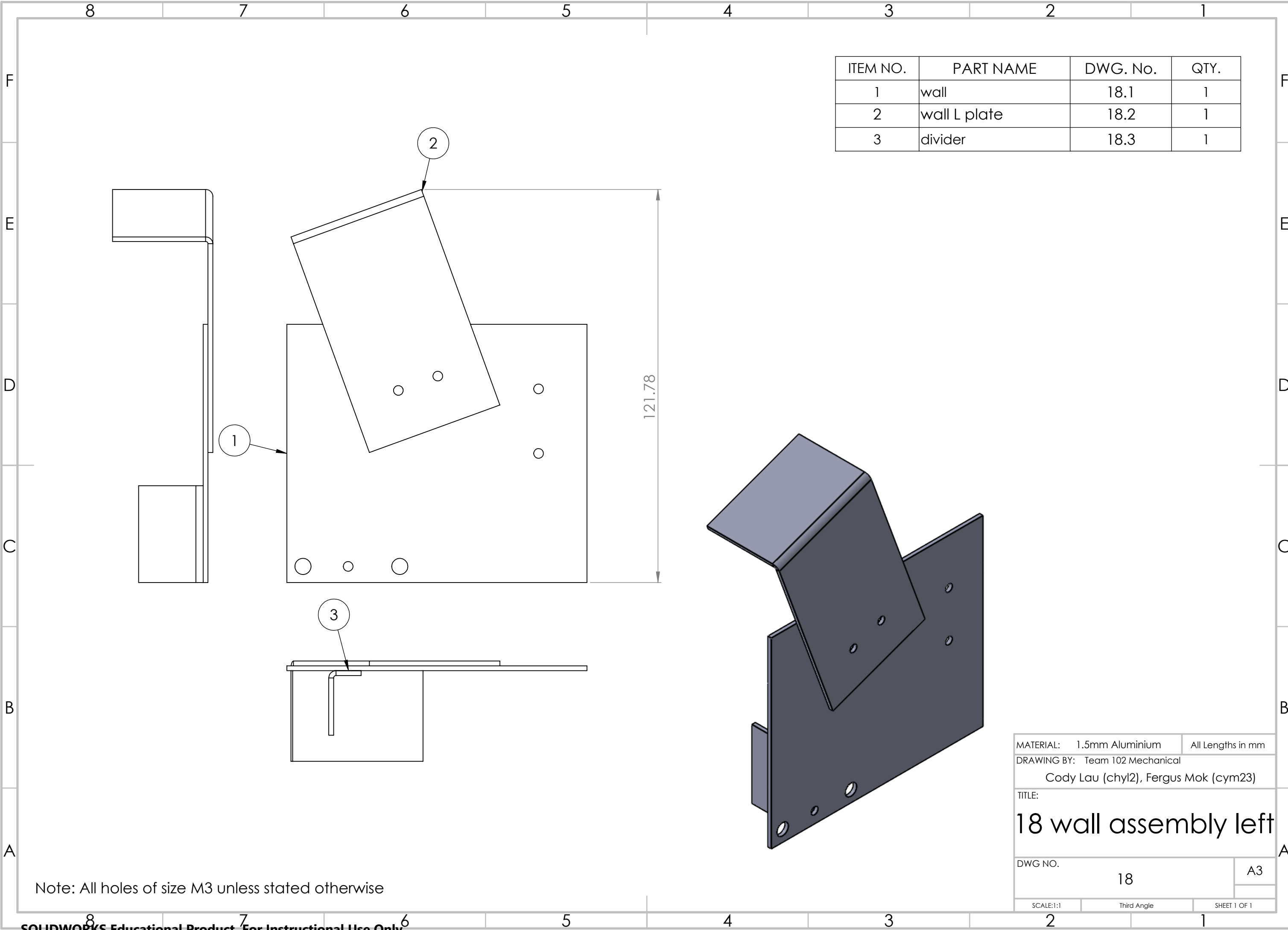




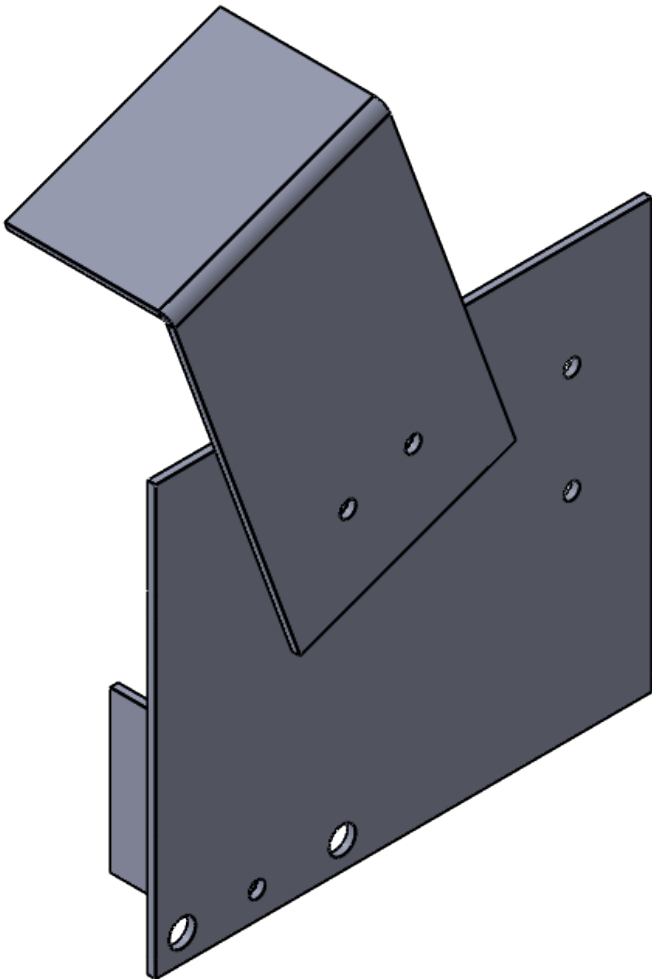
Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	17 Arm rod support Flat Pattern	
DWG NO.	17	A3
SCALE:5:1	Third Angle	SHEET 1 OF 2



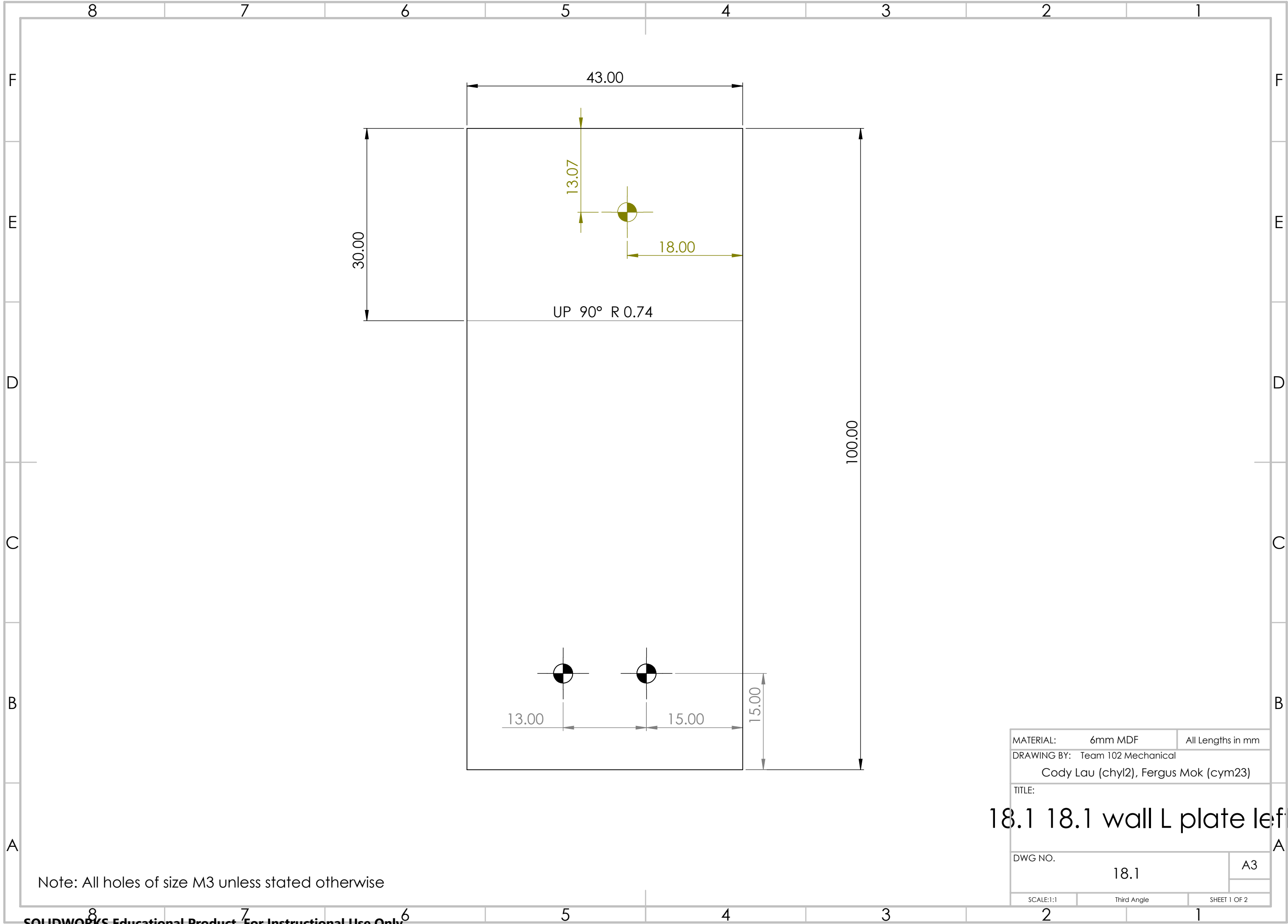


ITEM NO.	PART NAME	DWG. No.	QTY.
1	wall	18.1	1
2	wall L plate	18.2	1
3	divider	18.3	1



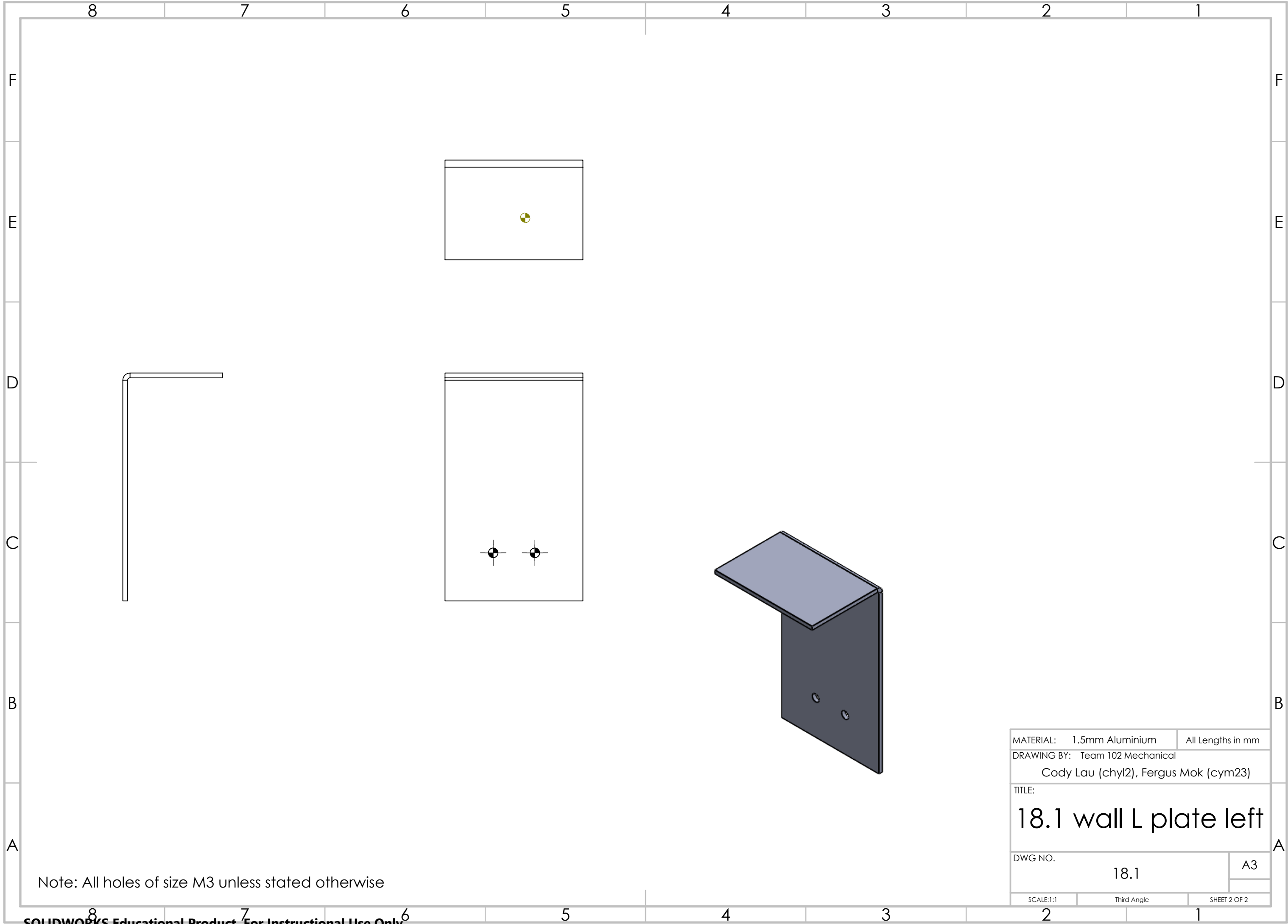
Note: All holes of size M3 unless stated otherwise

MATERIAL:	1.5mm Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	18 wall assembly left	
DWG NO.	18	A3
SCALE:1:1	Third Angle	SHEET 1 OF 1



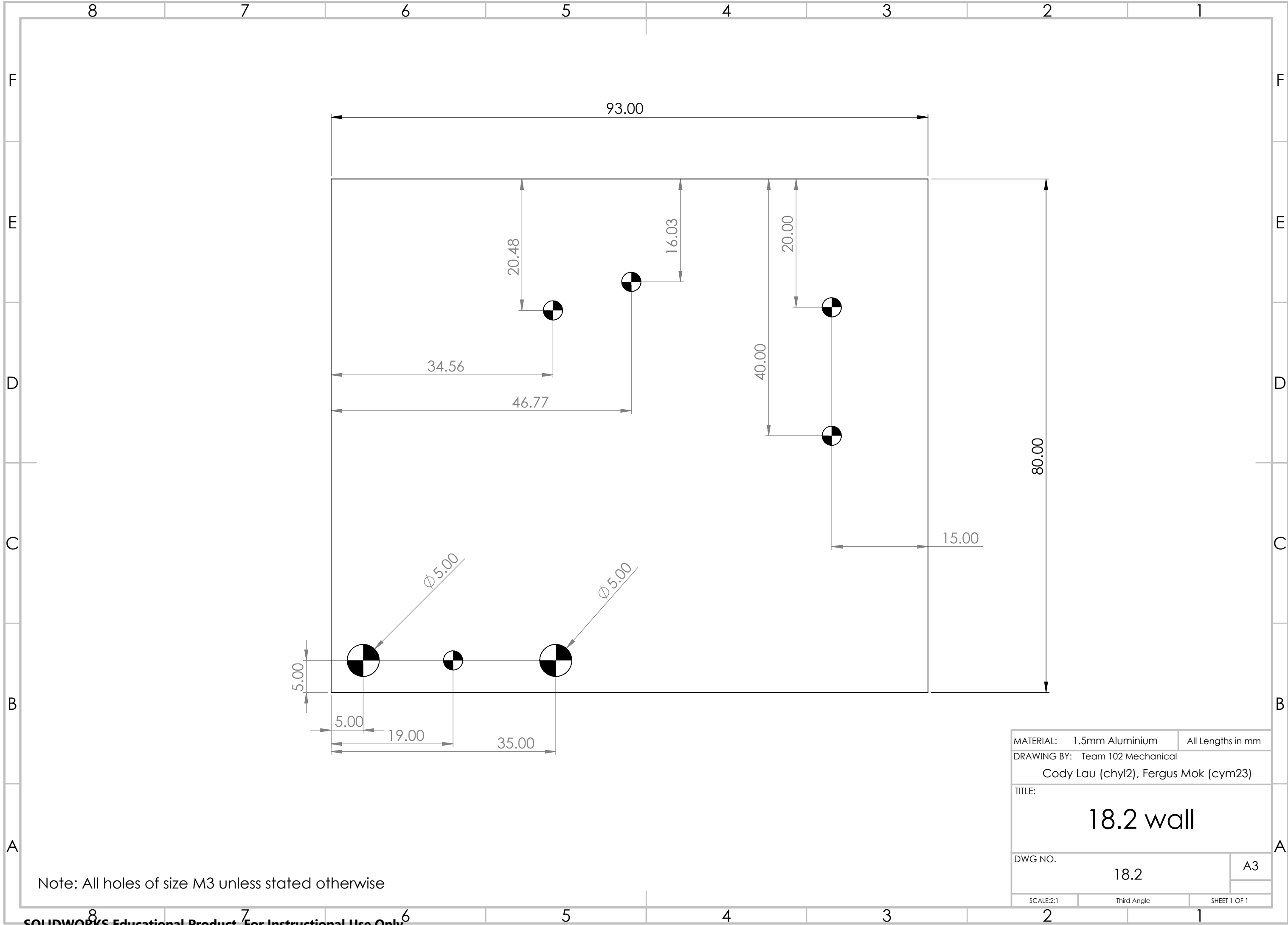
Note: All holes of size M3 unless stated otherwise

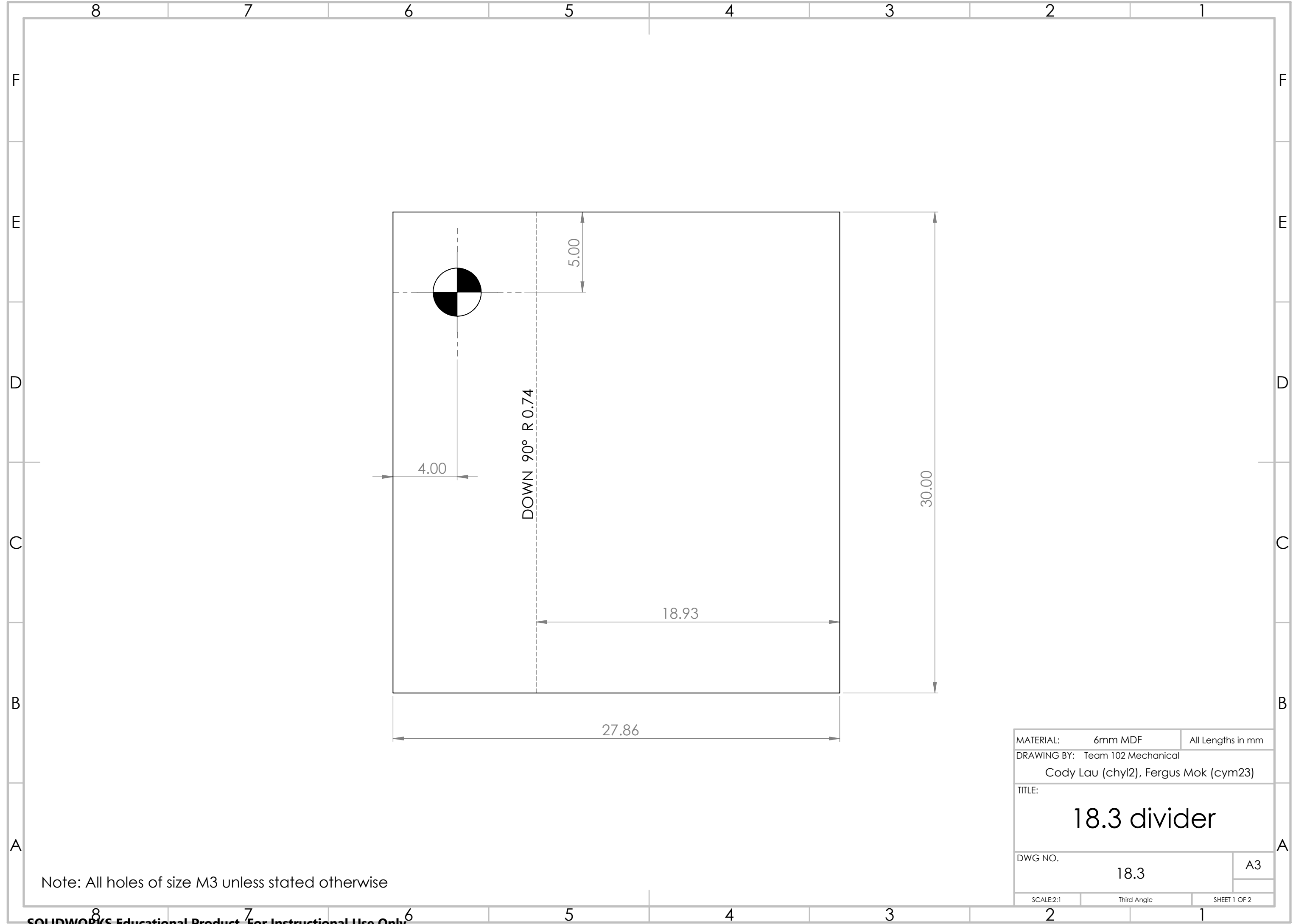
MATERIAL:	6mm MDF	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	18.1 18.1 wall L plate left	
DWG NO.	18.1	A3
SCALE:1:1	Third Angle	SHEET 1 OF 2



Note: All holes of size M3 unless stated otherwise

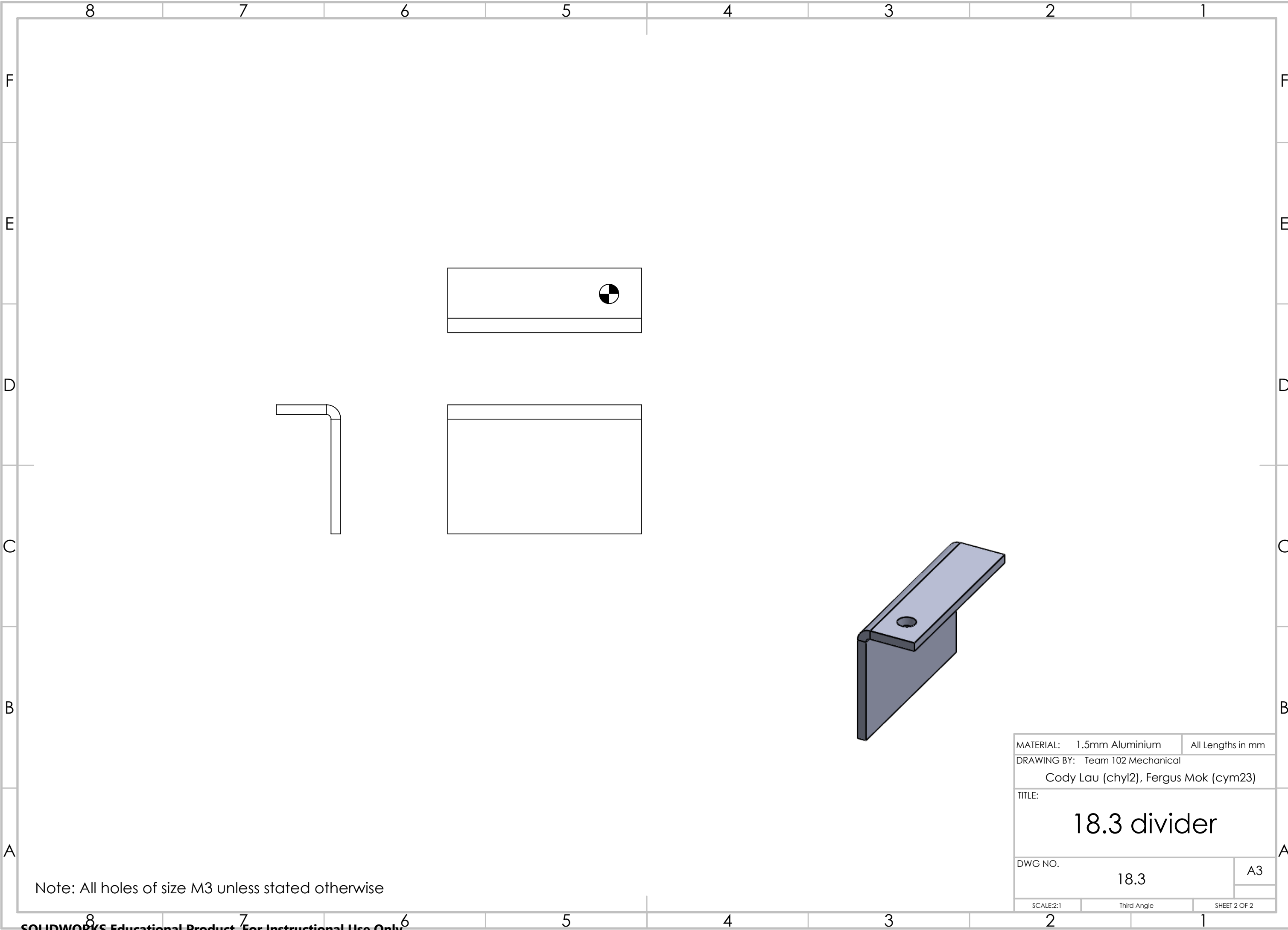
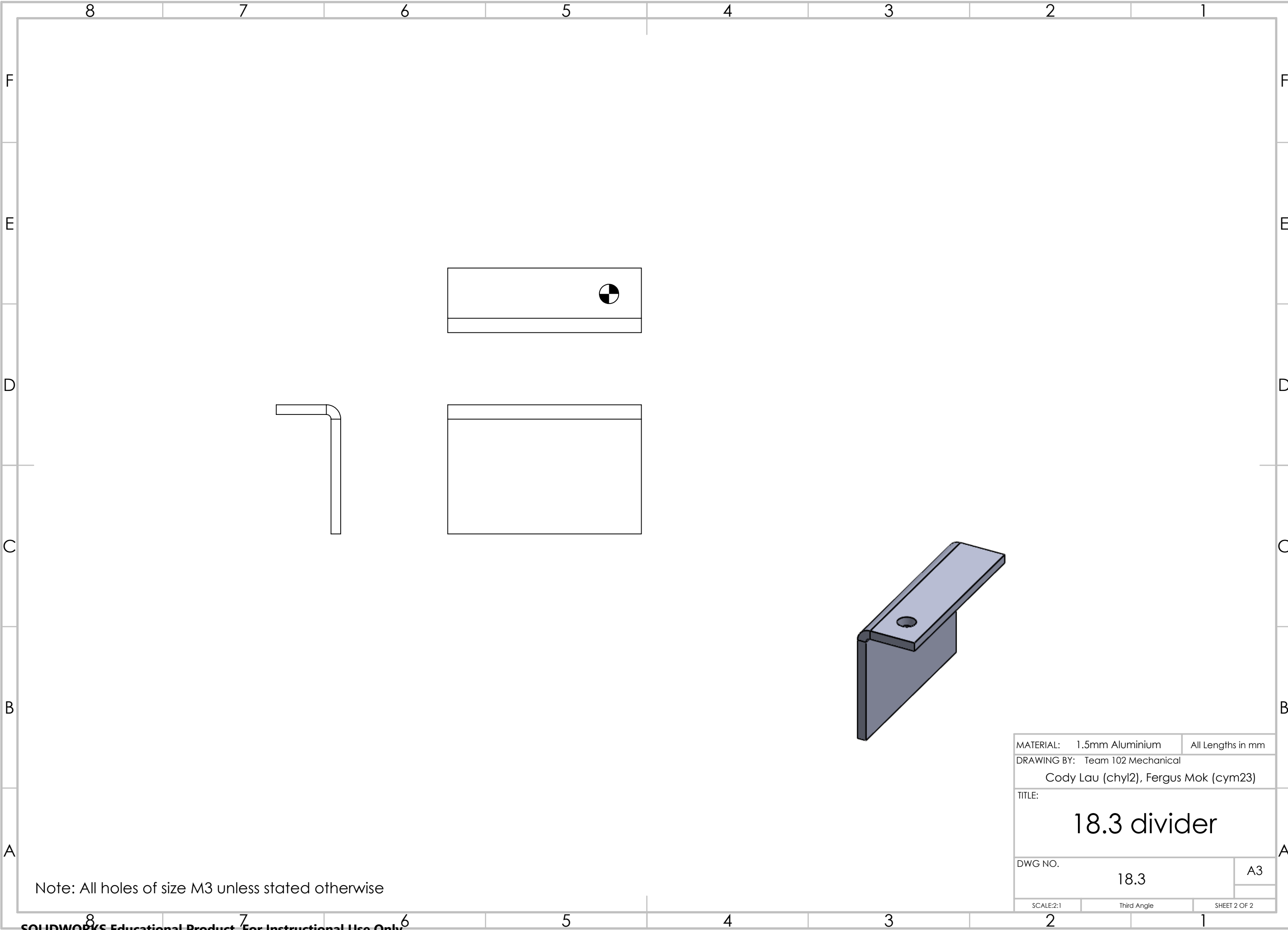
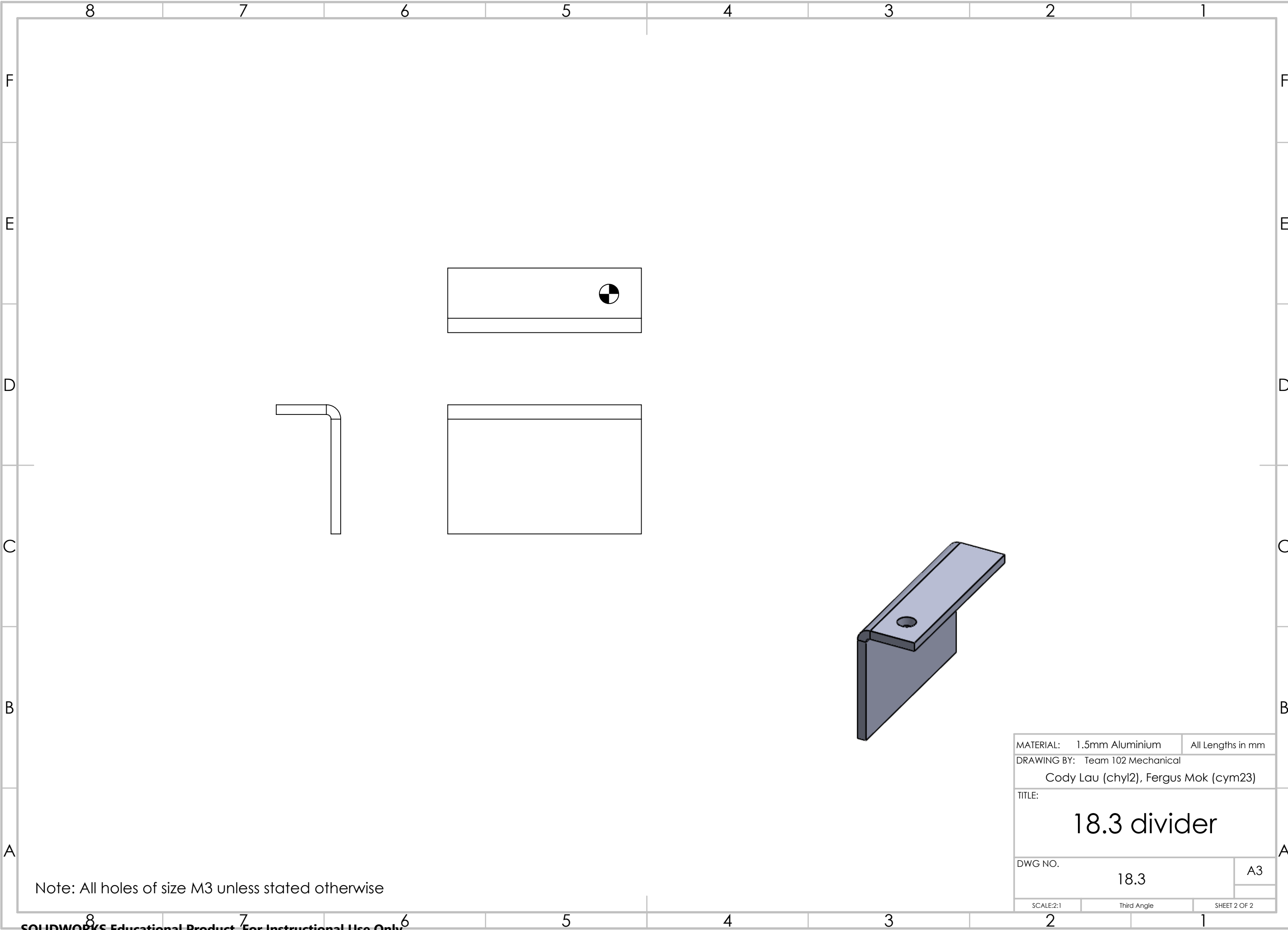
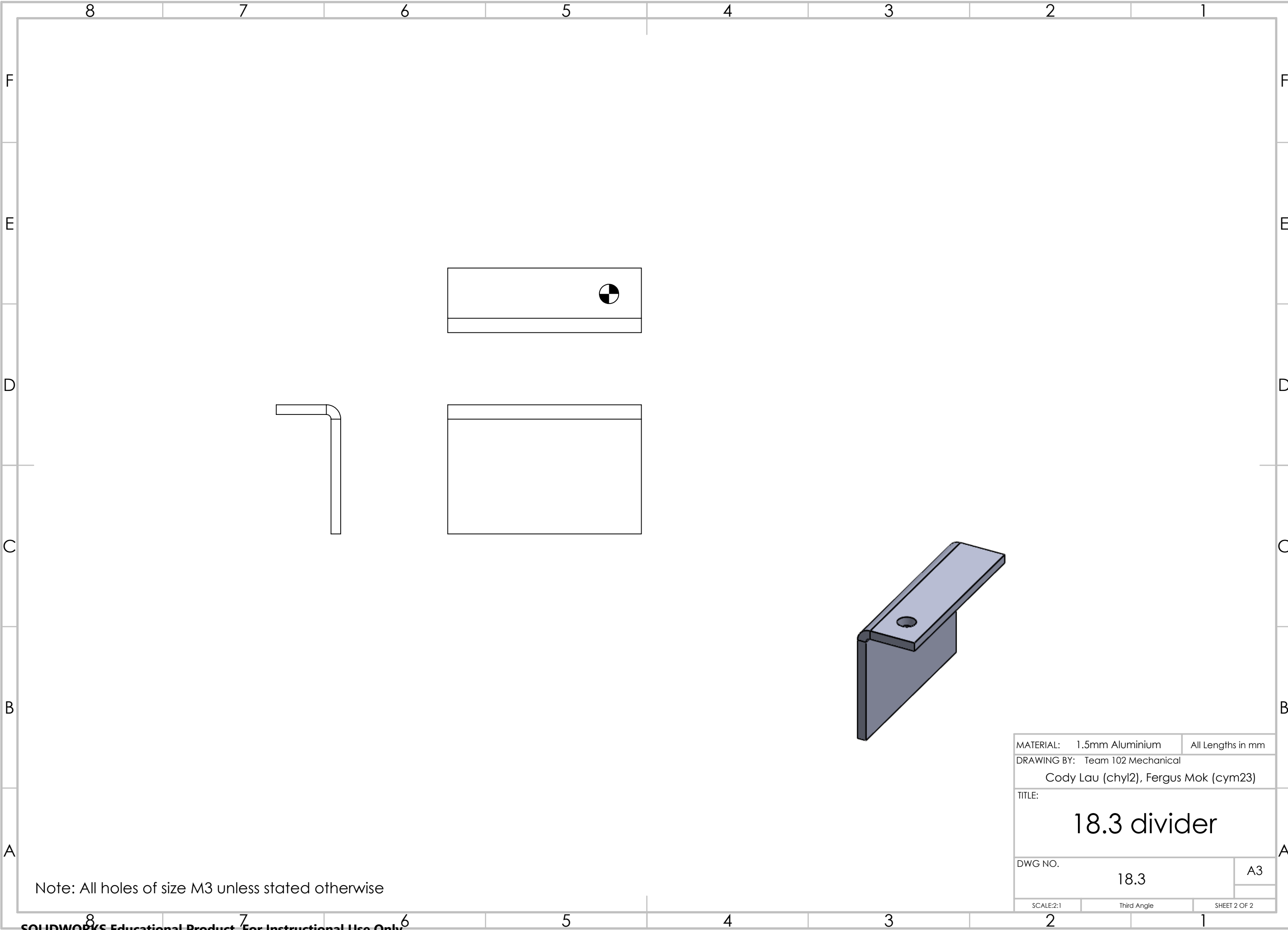
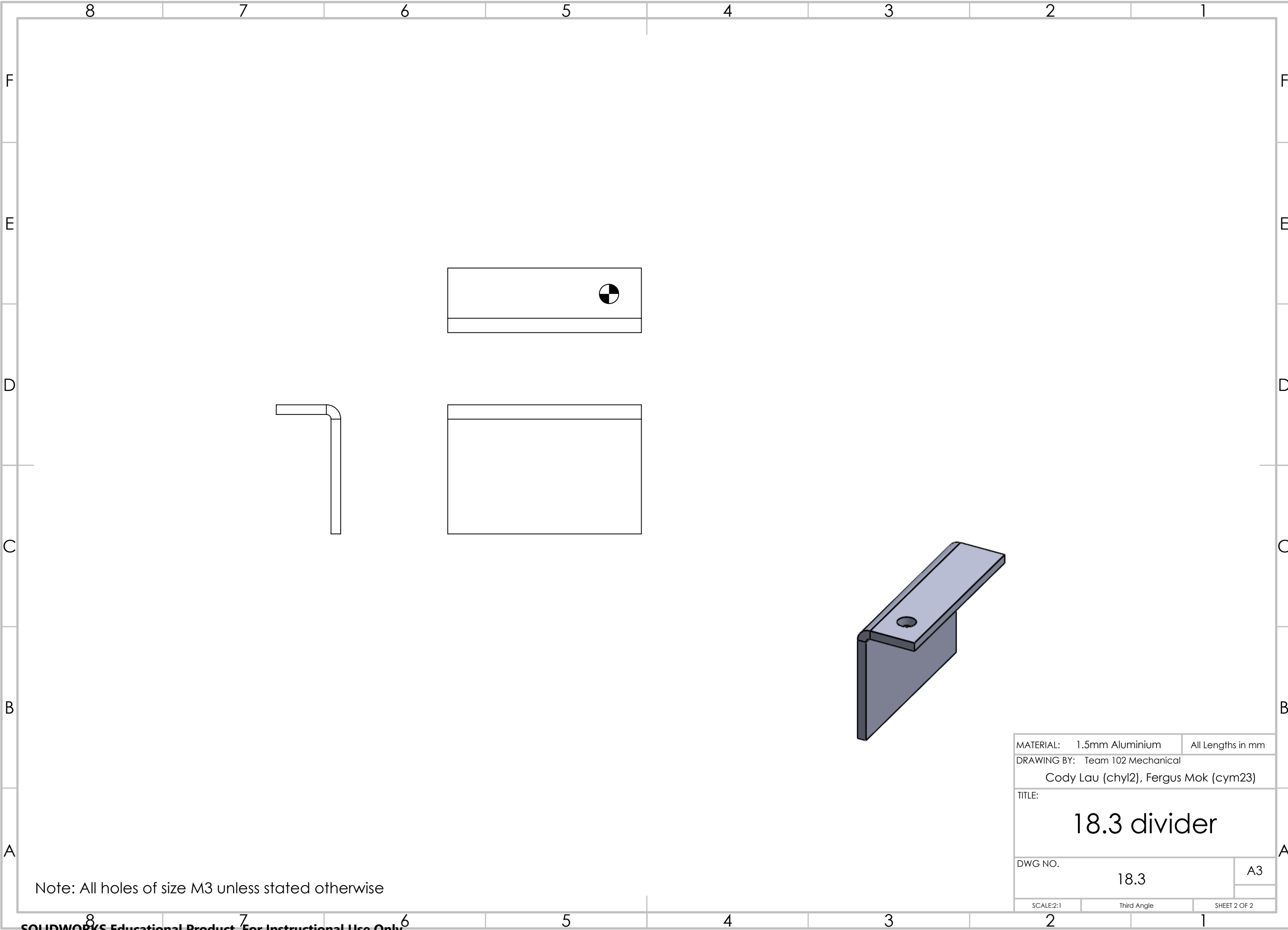
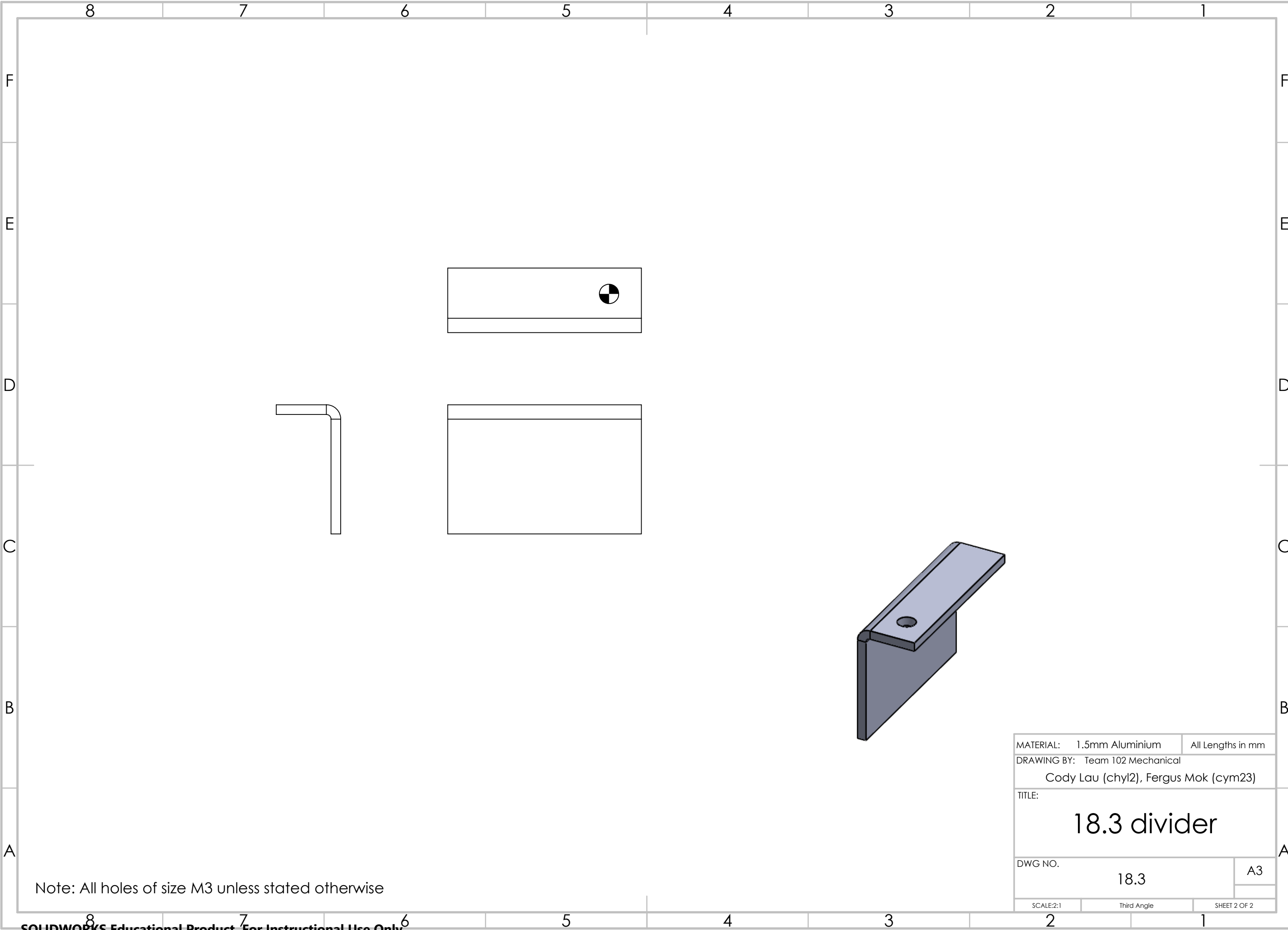
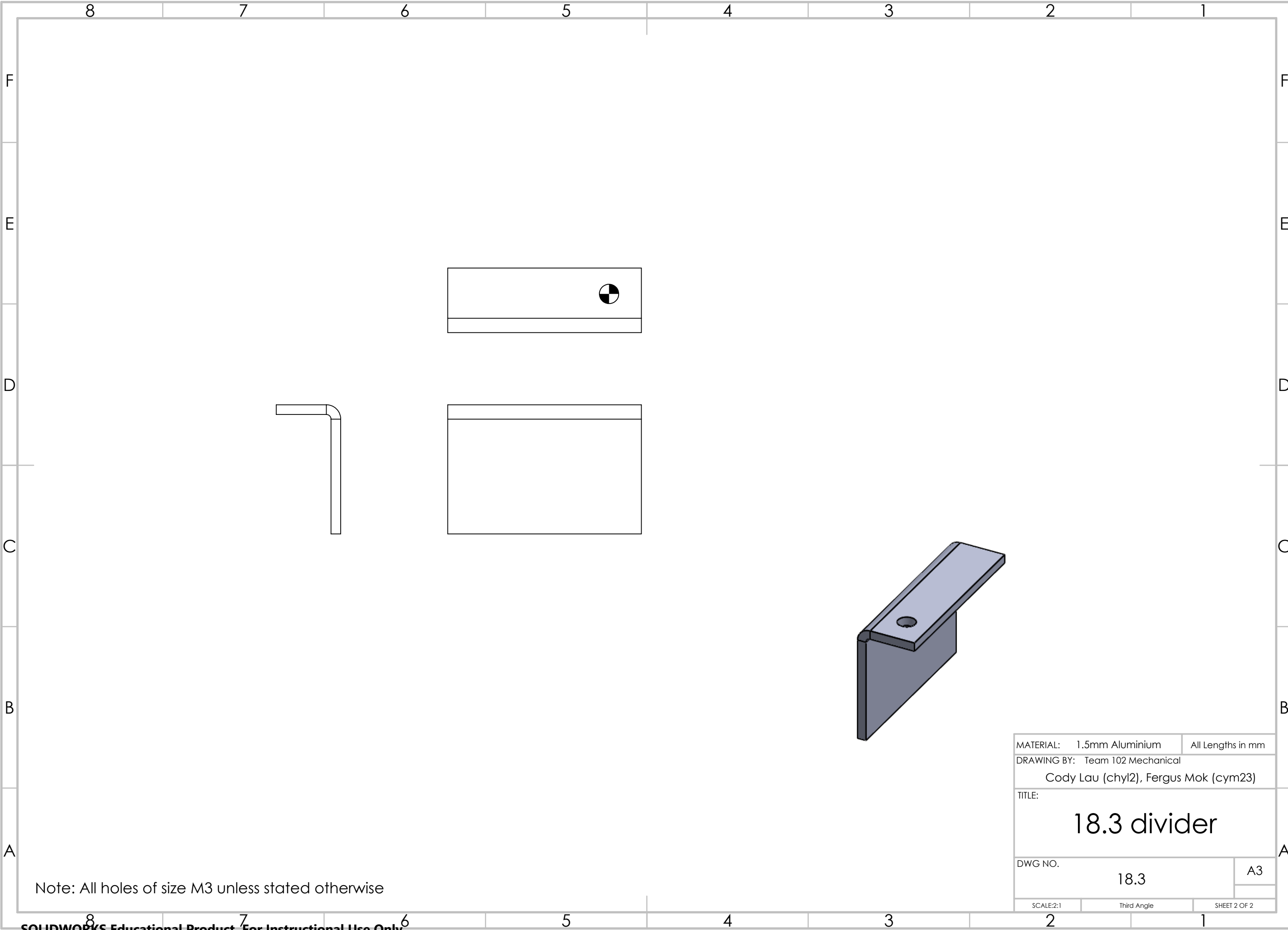
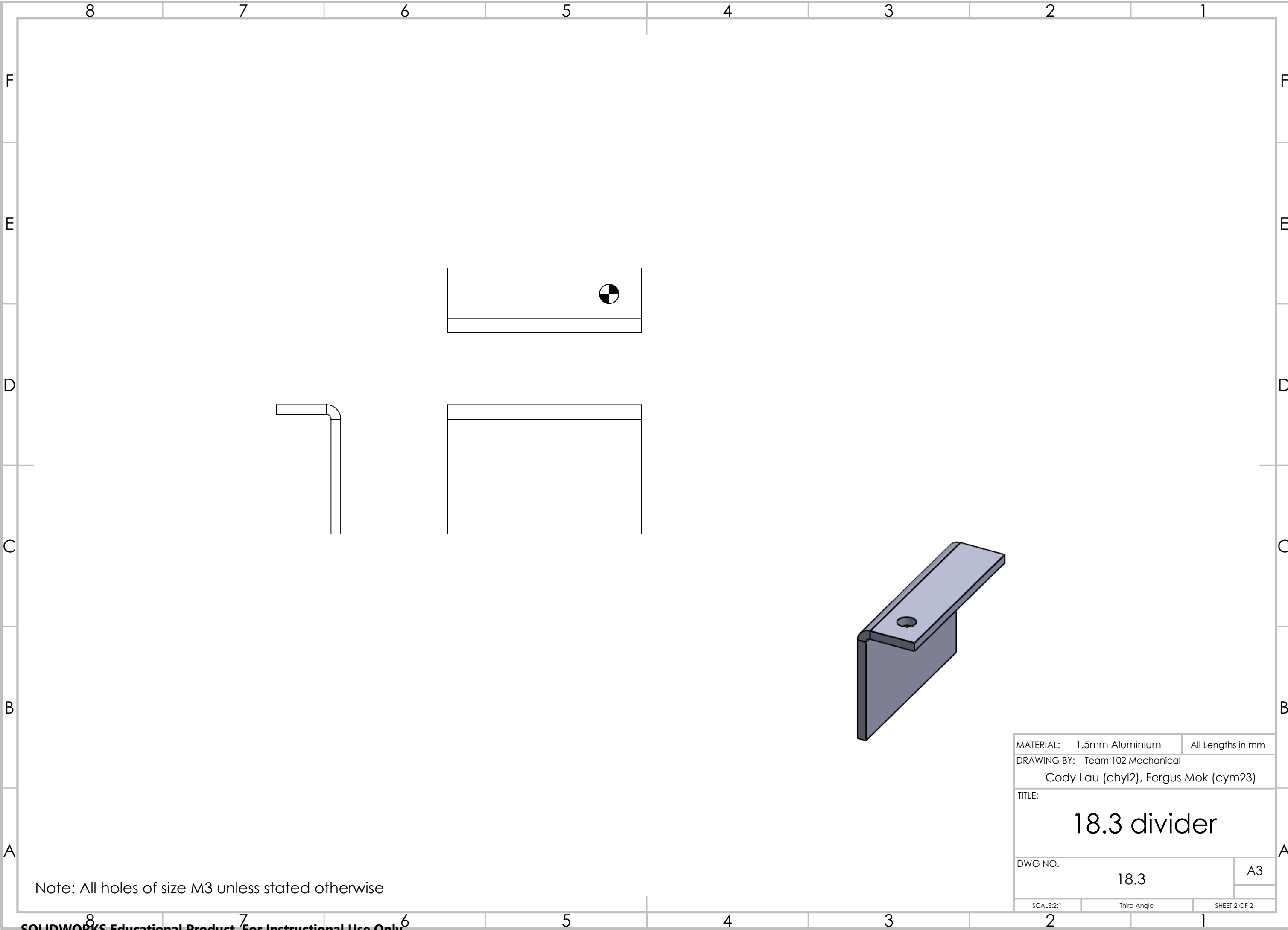
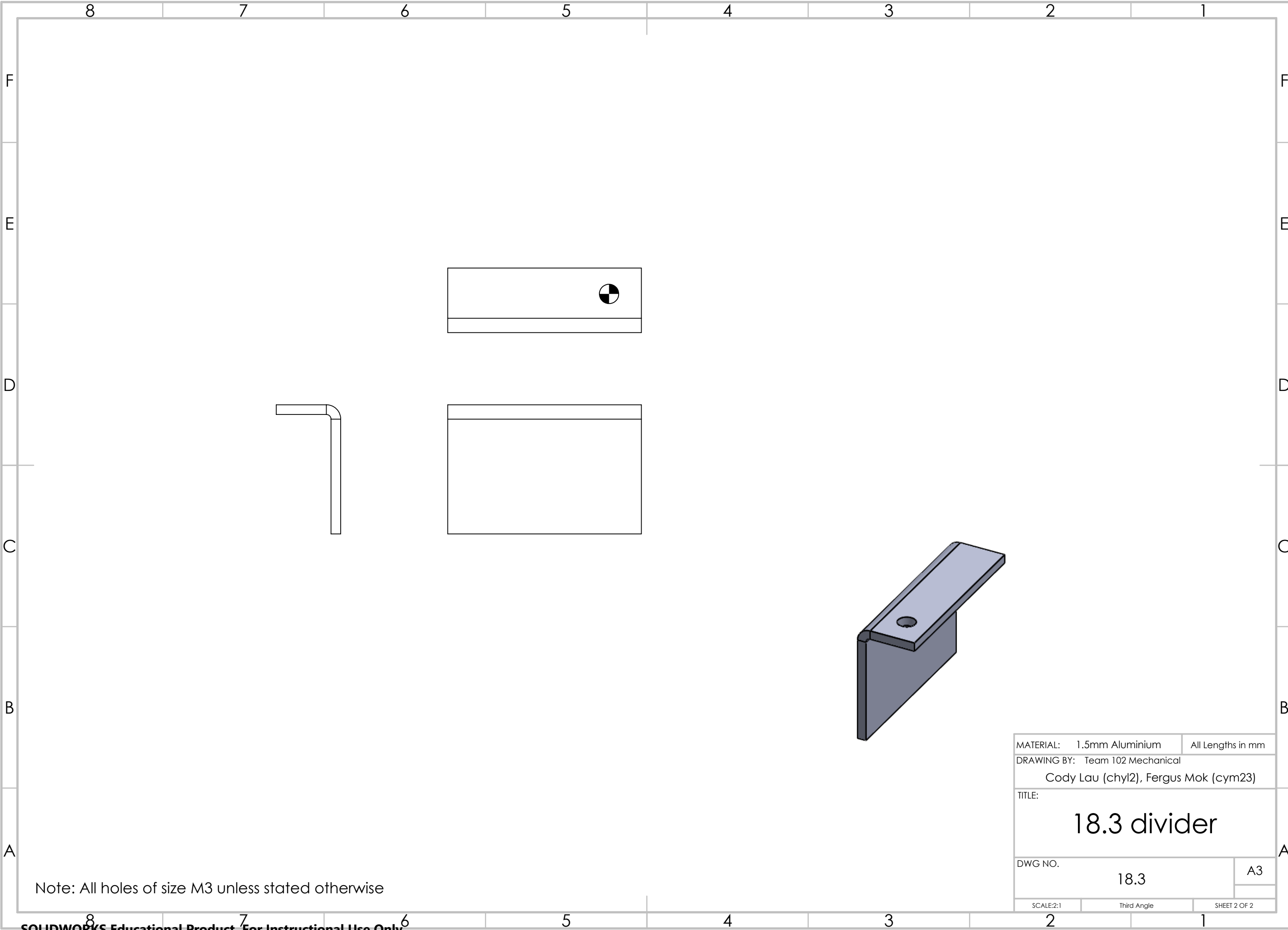
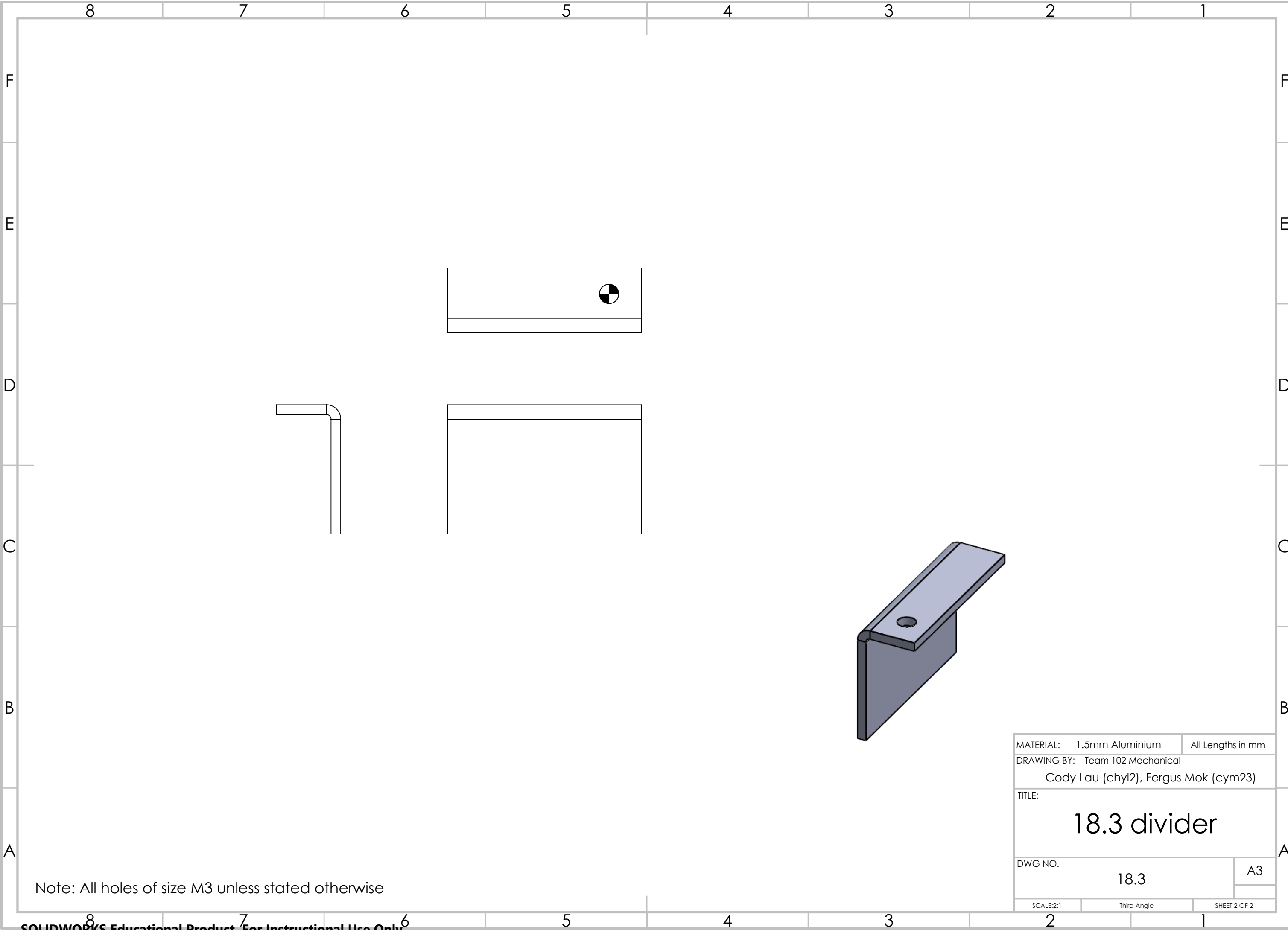
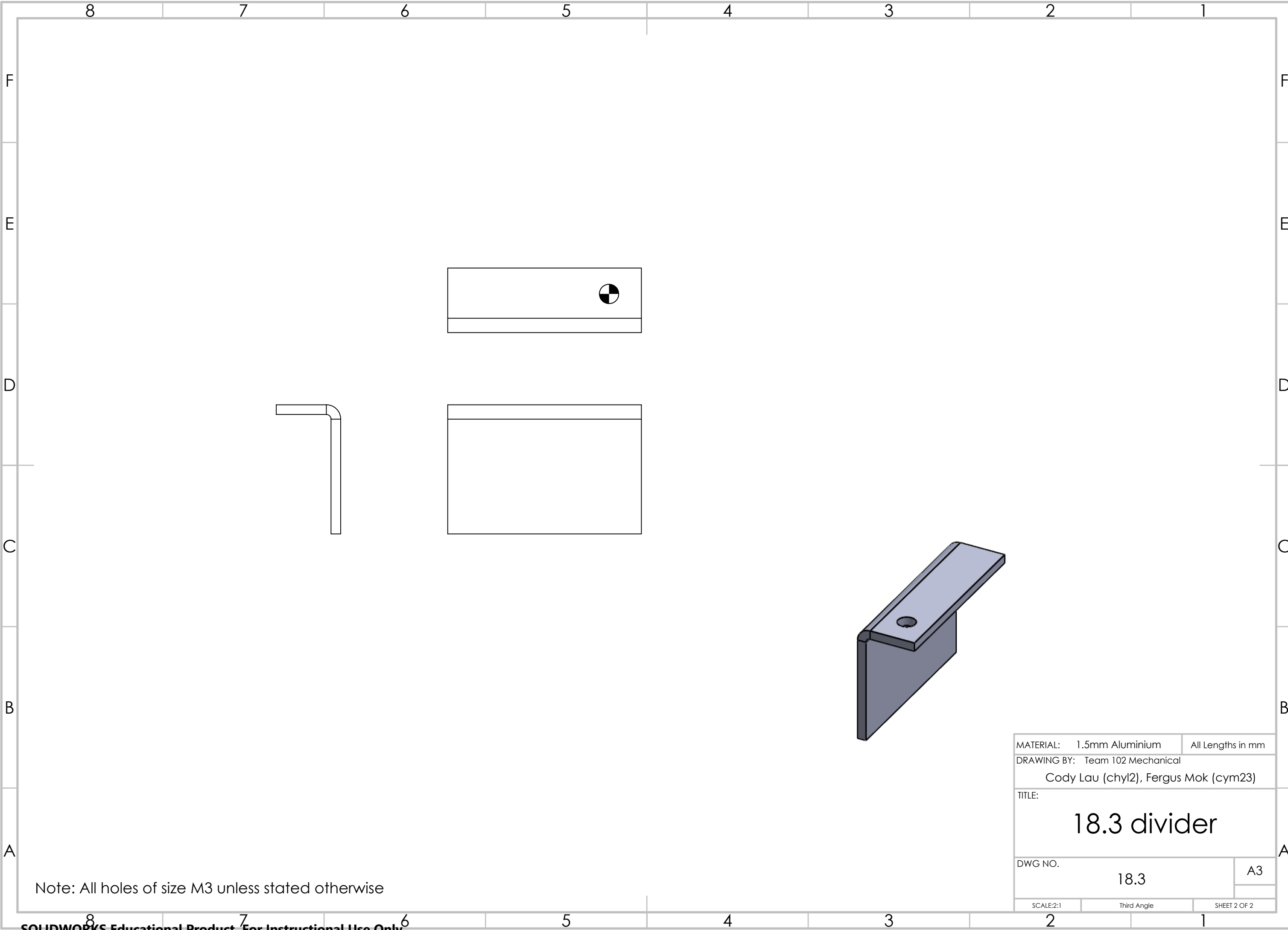
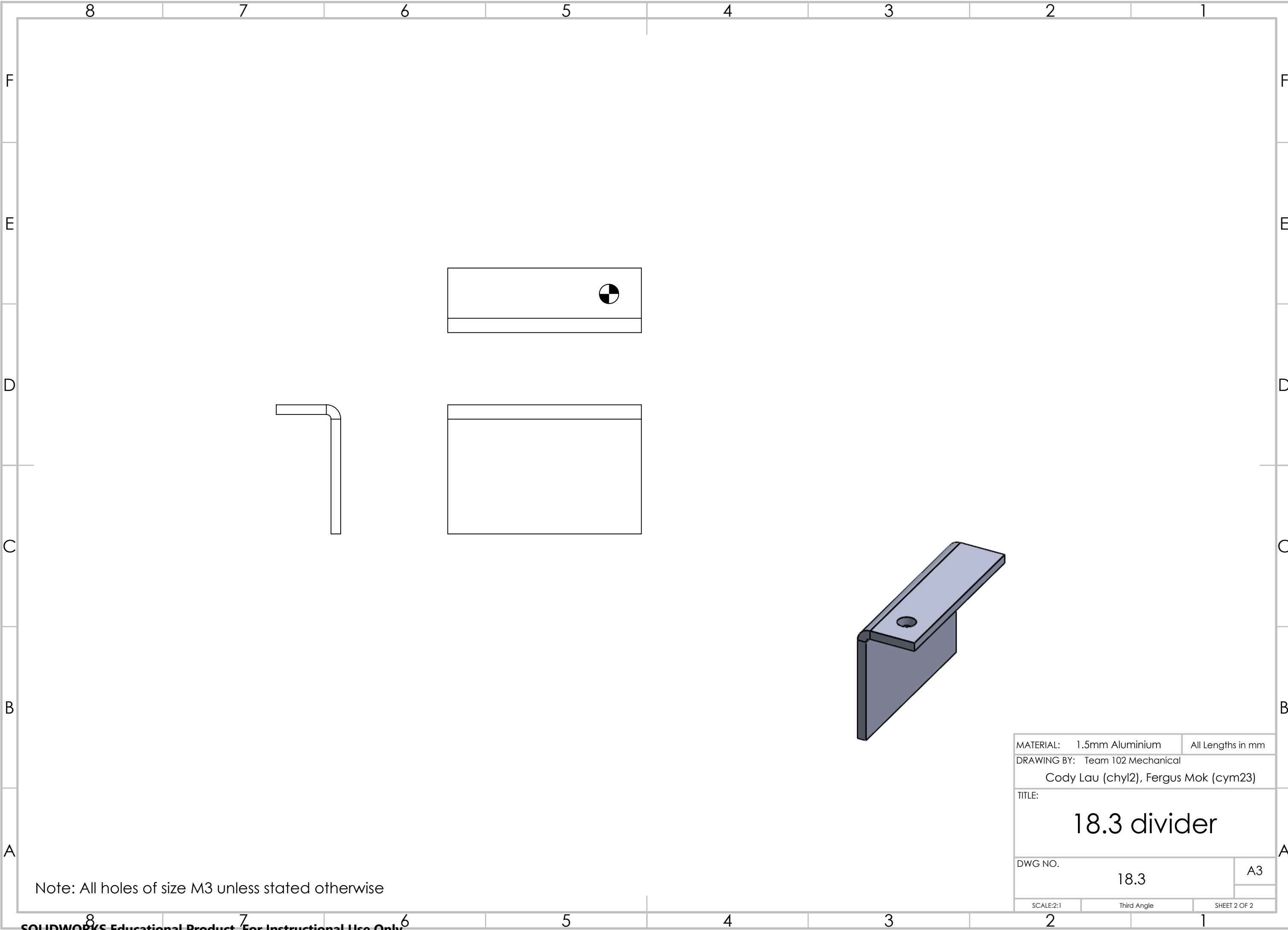
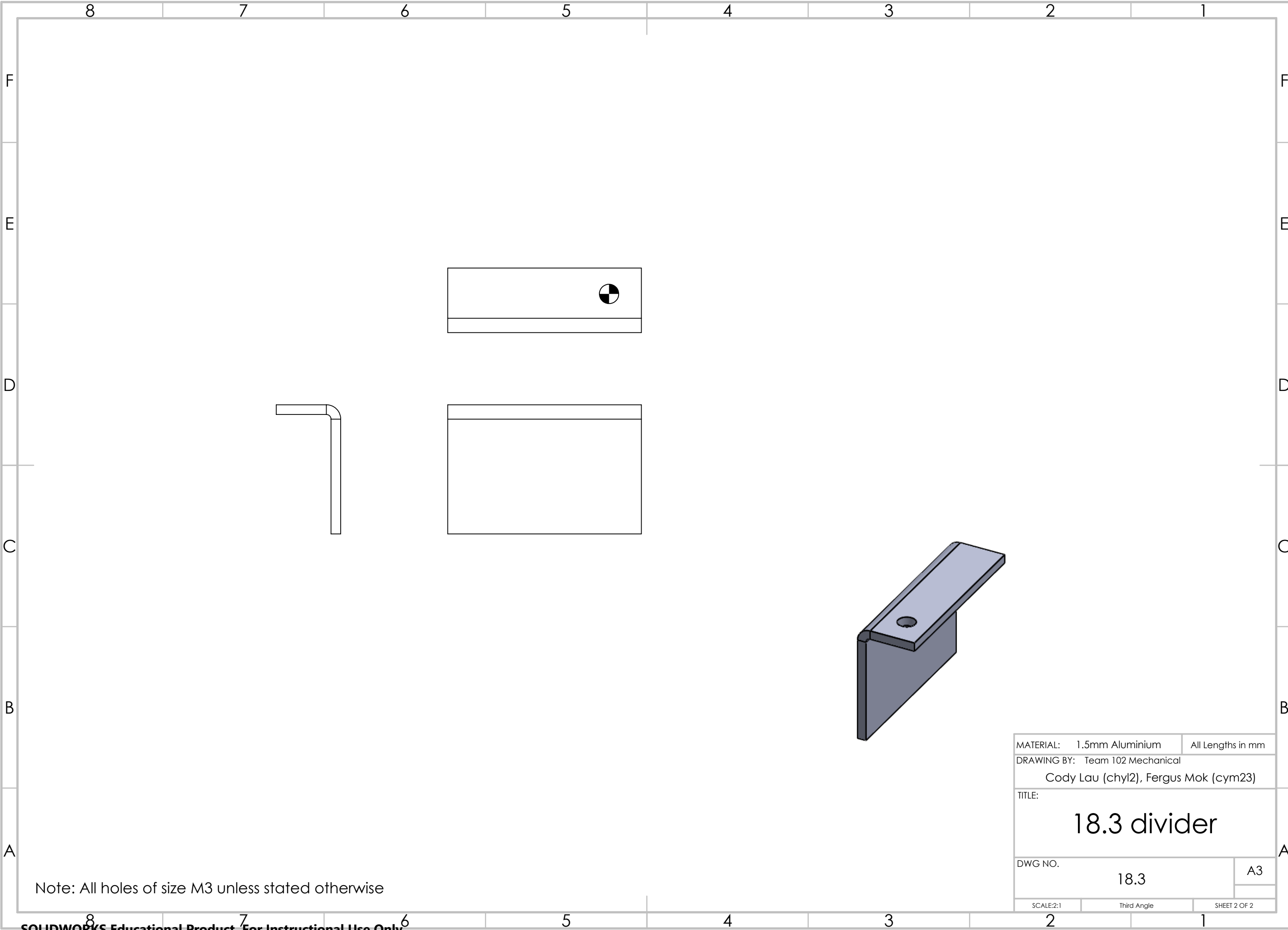
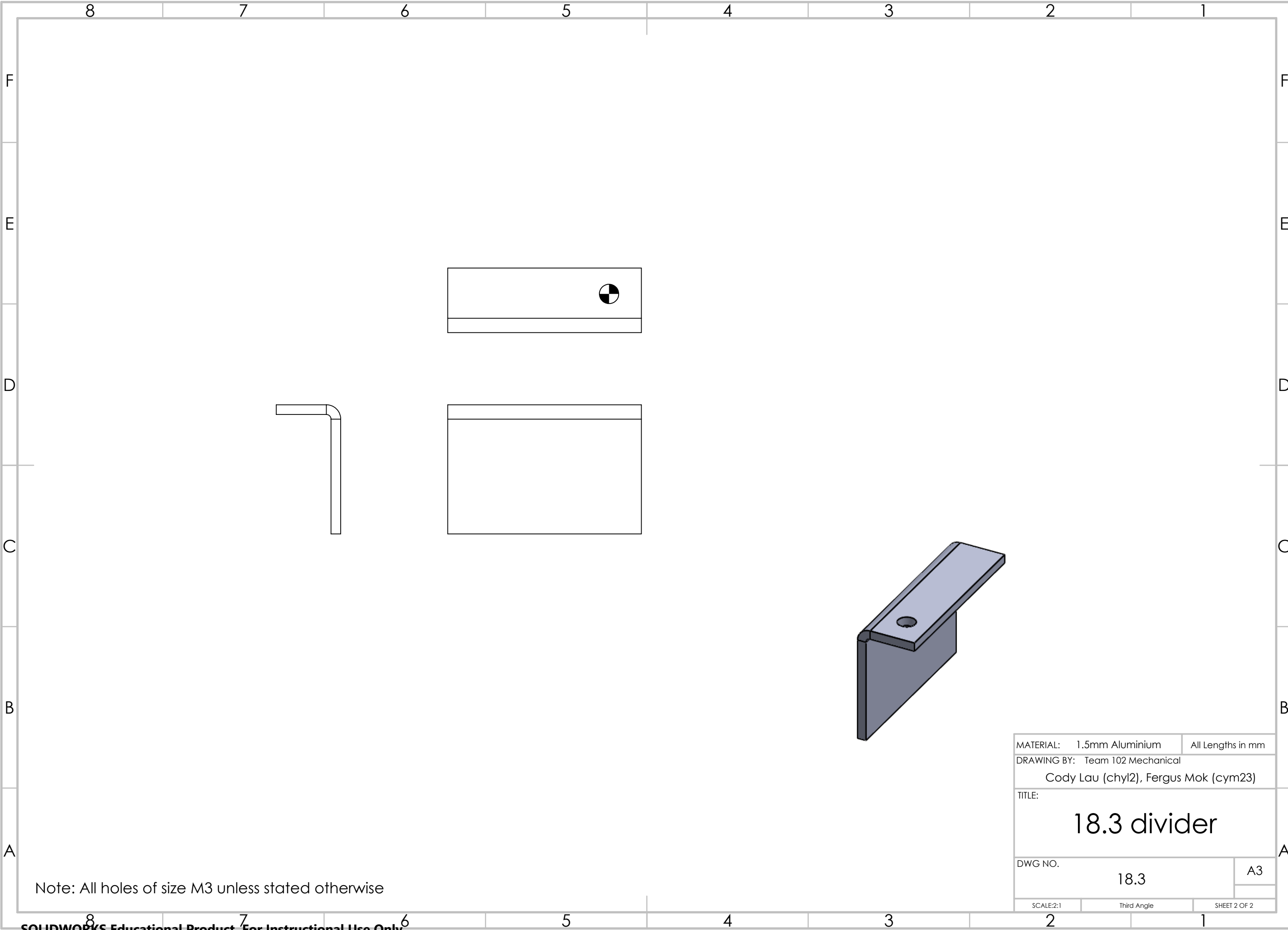
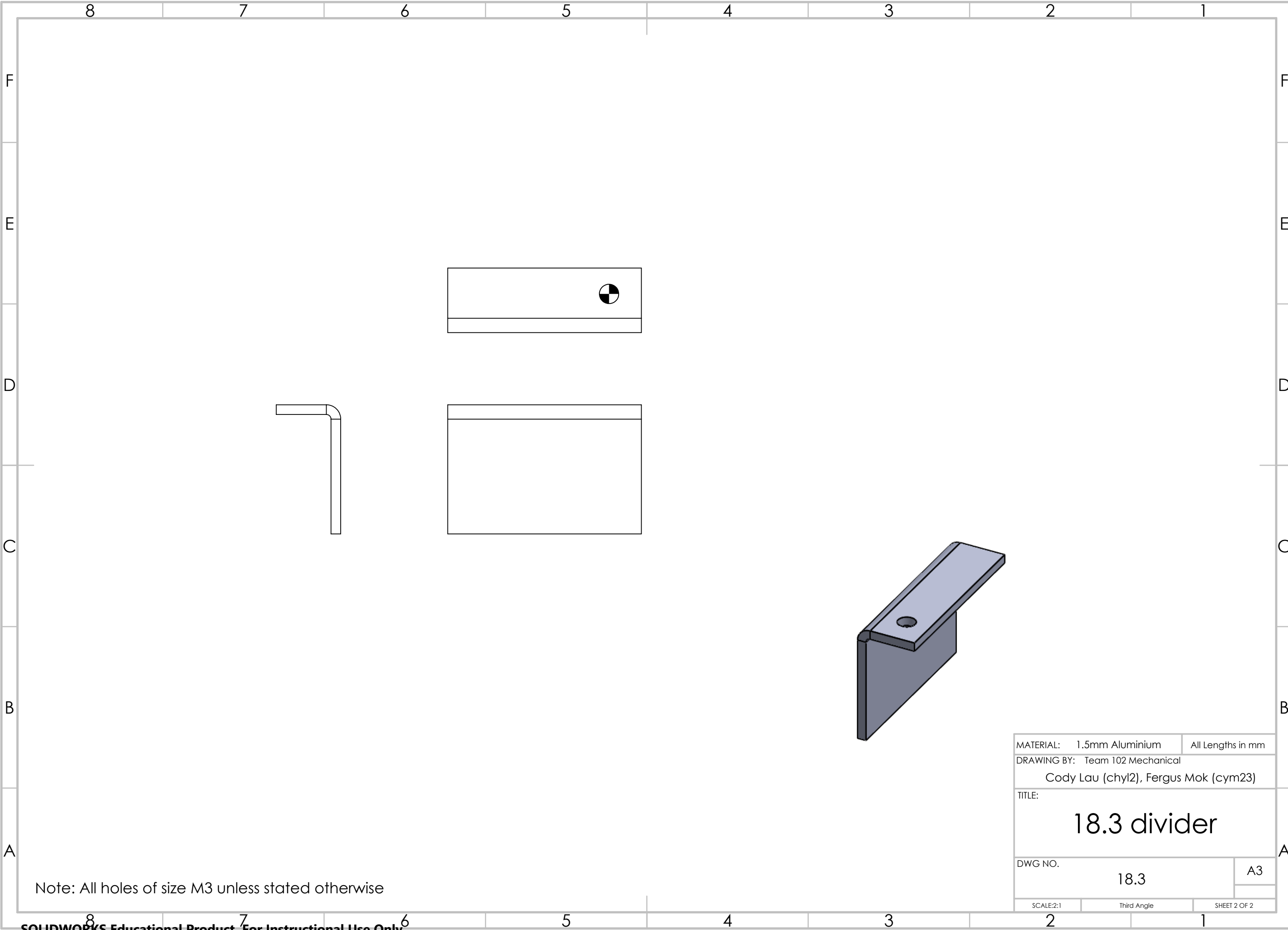
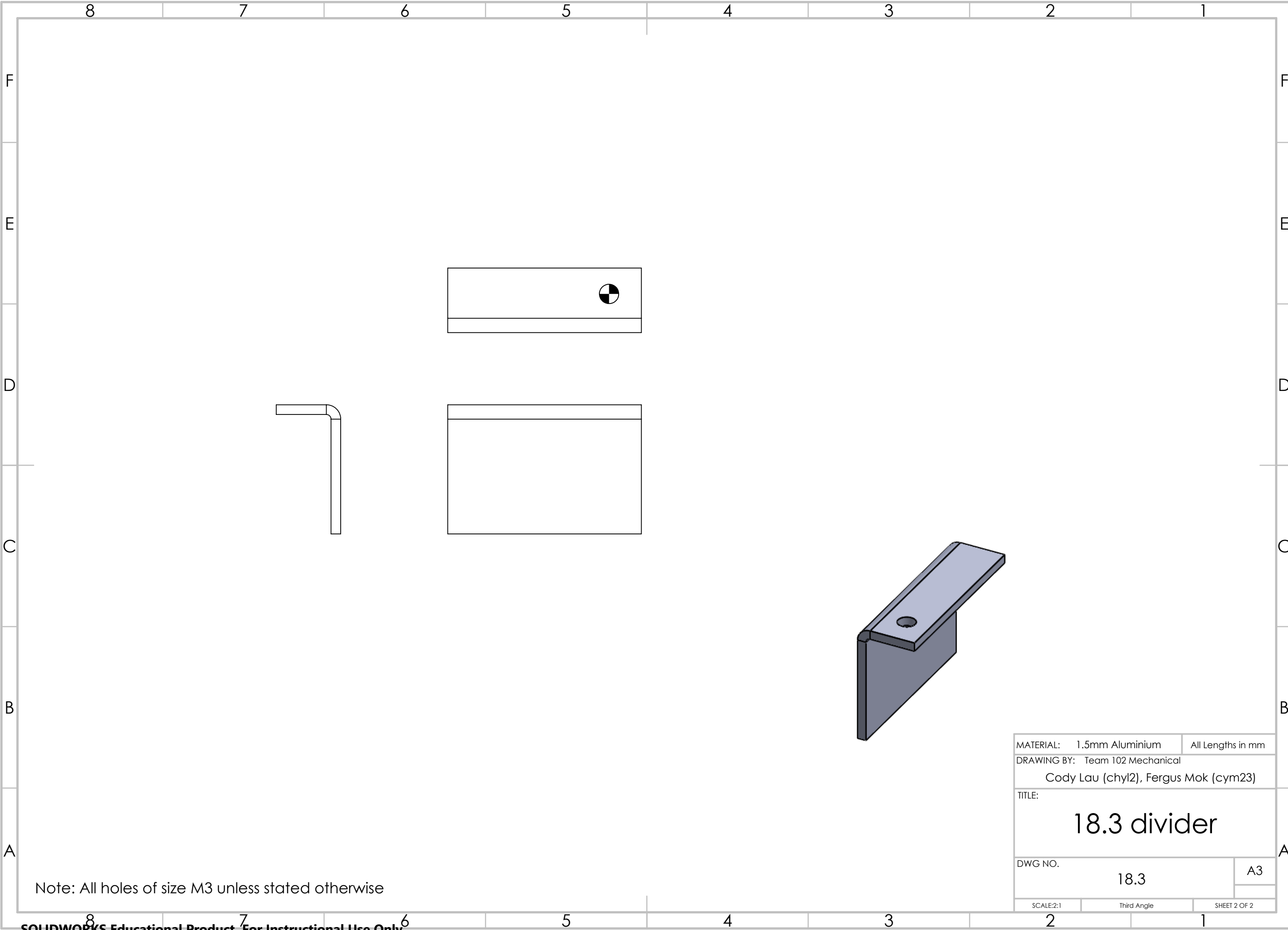
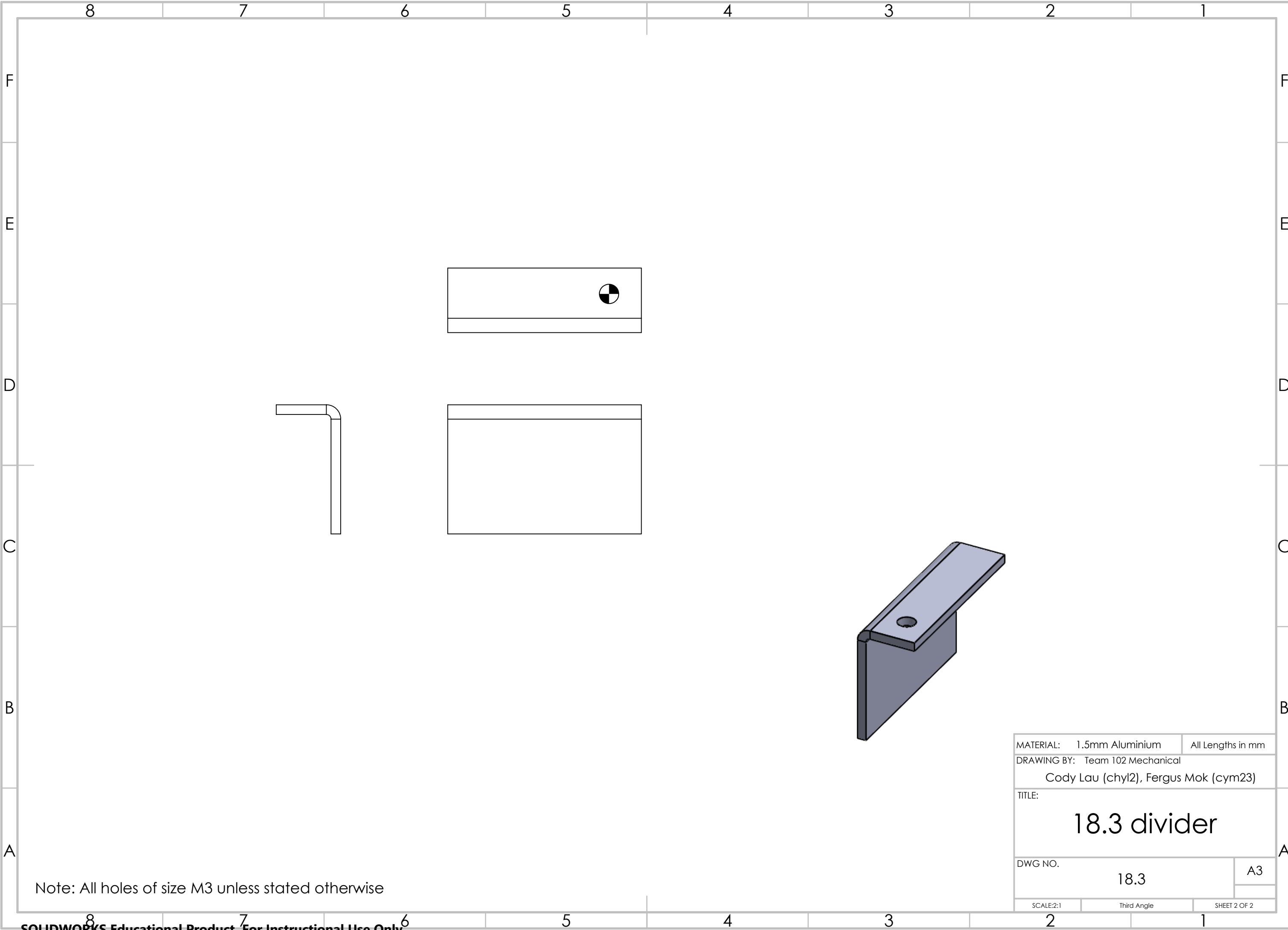
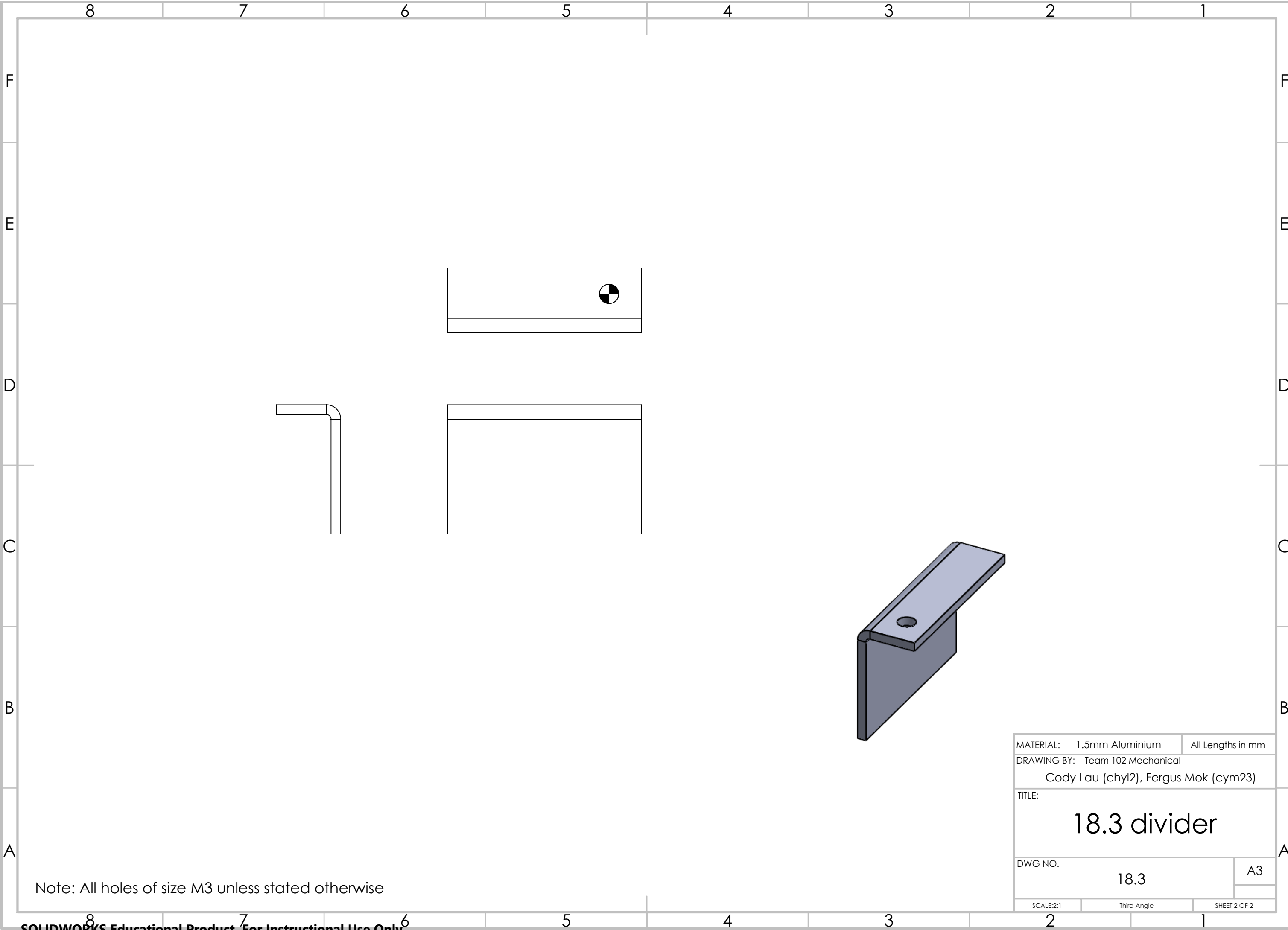
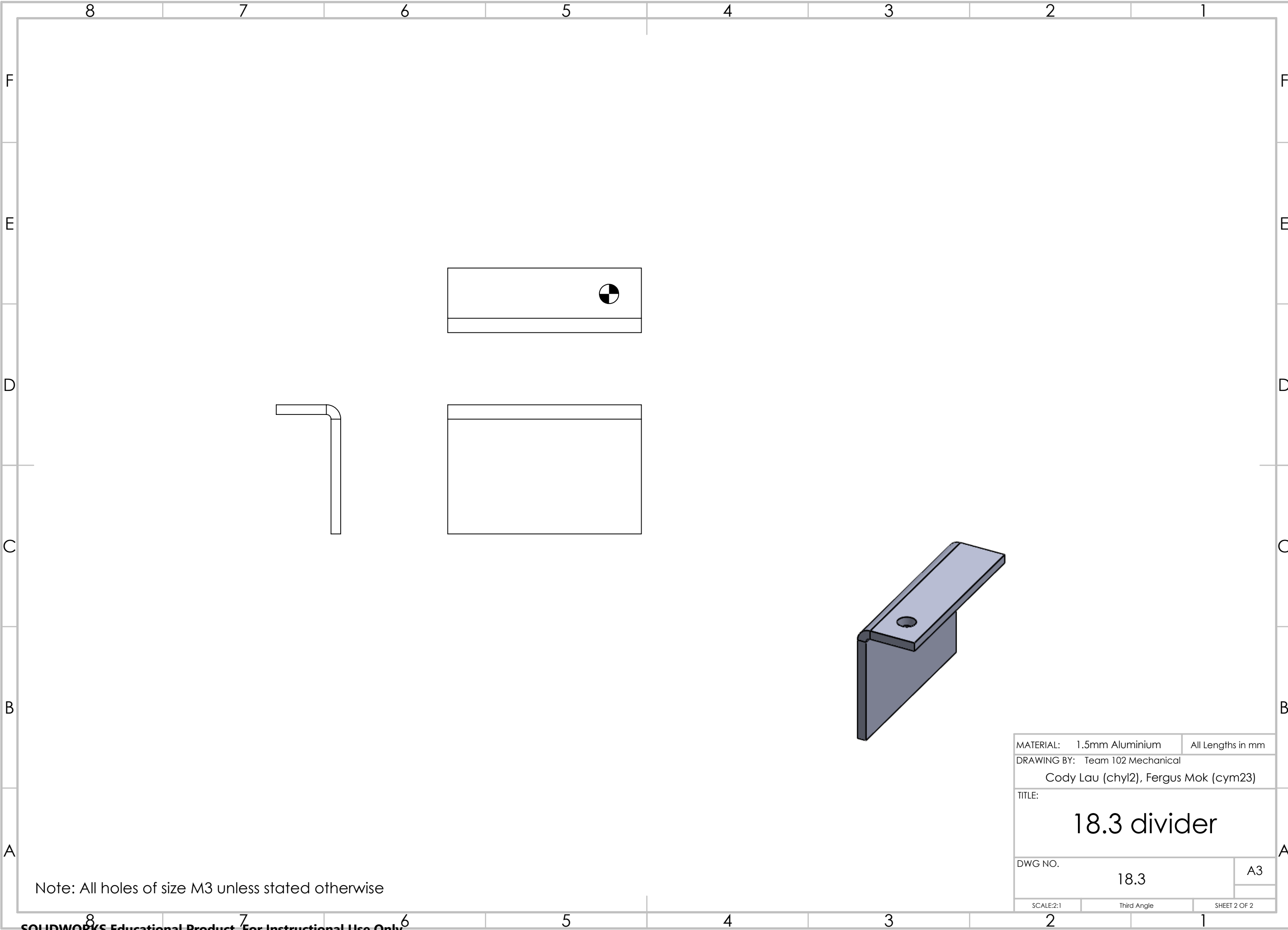
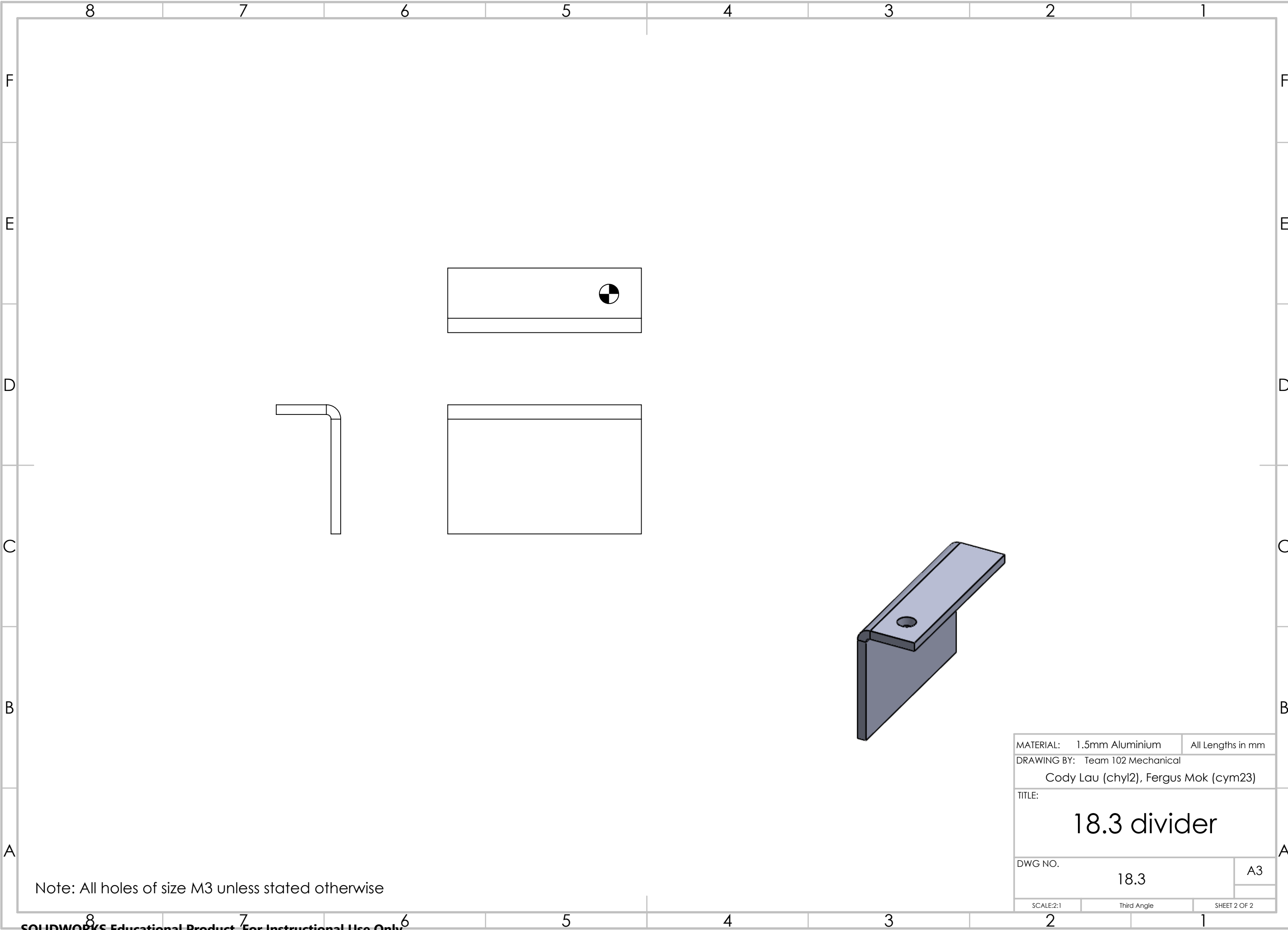
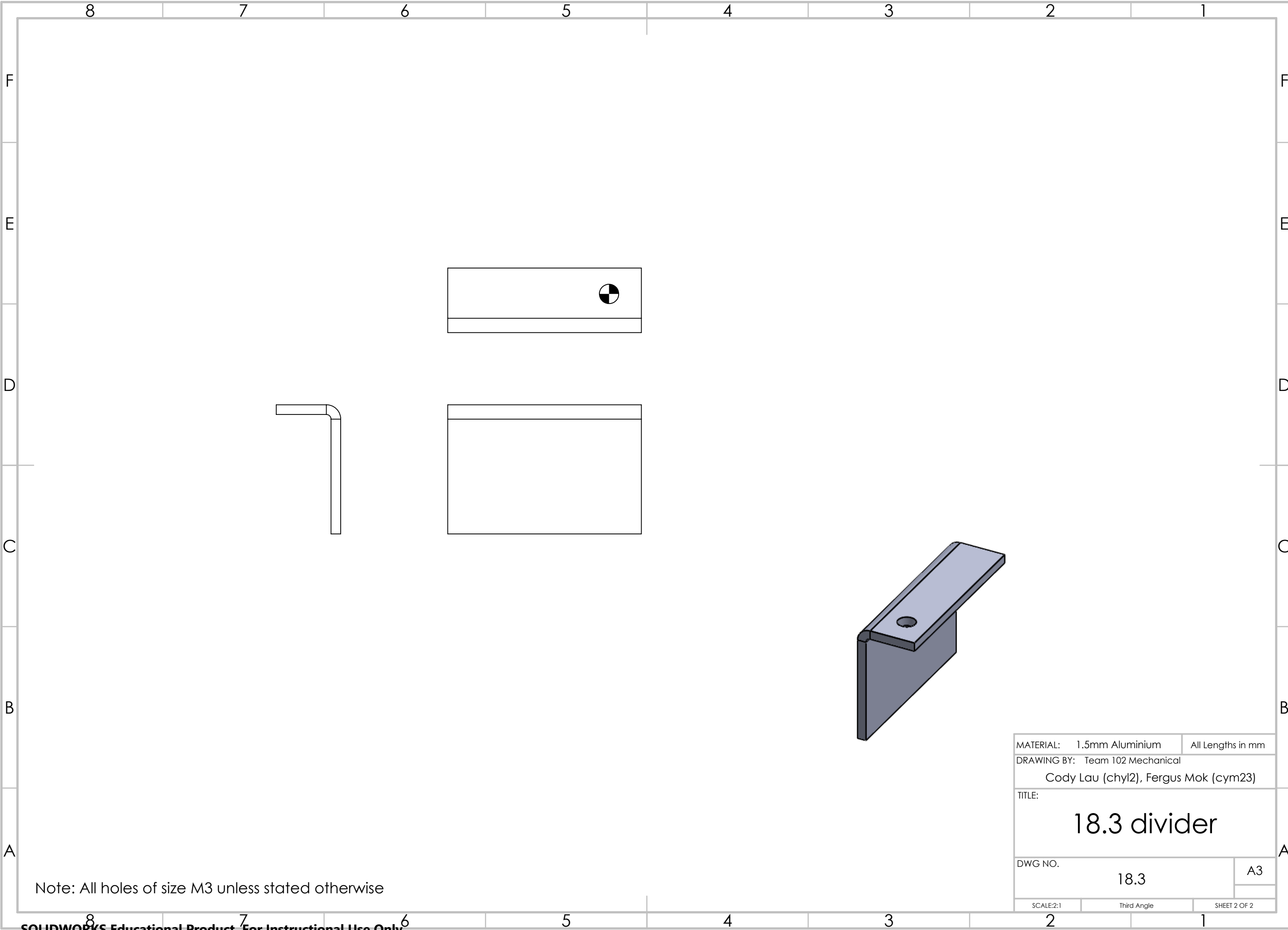
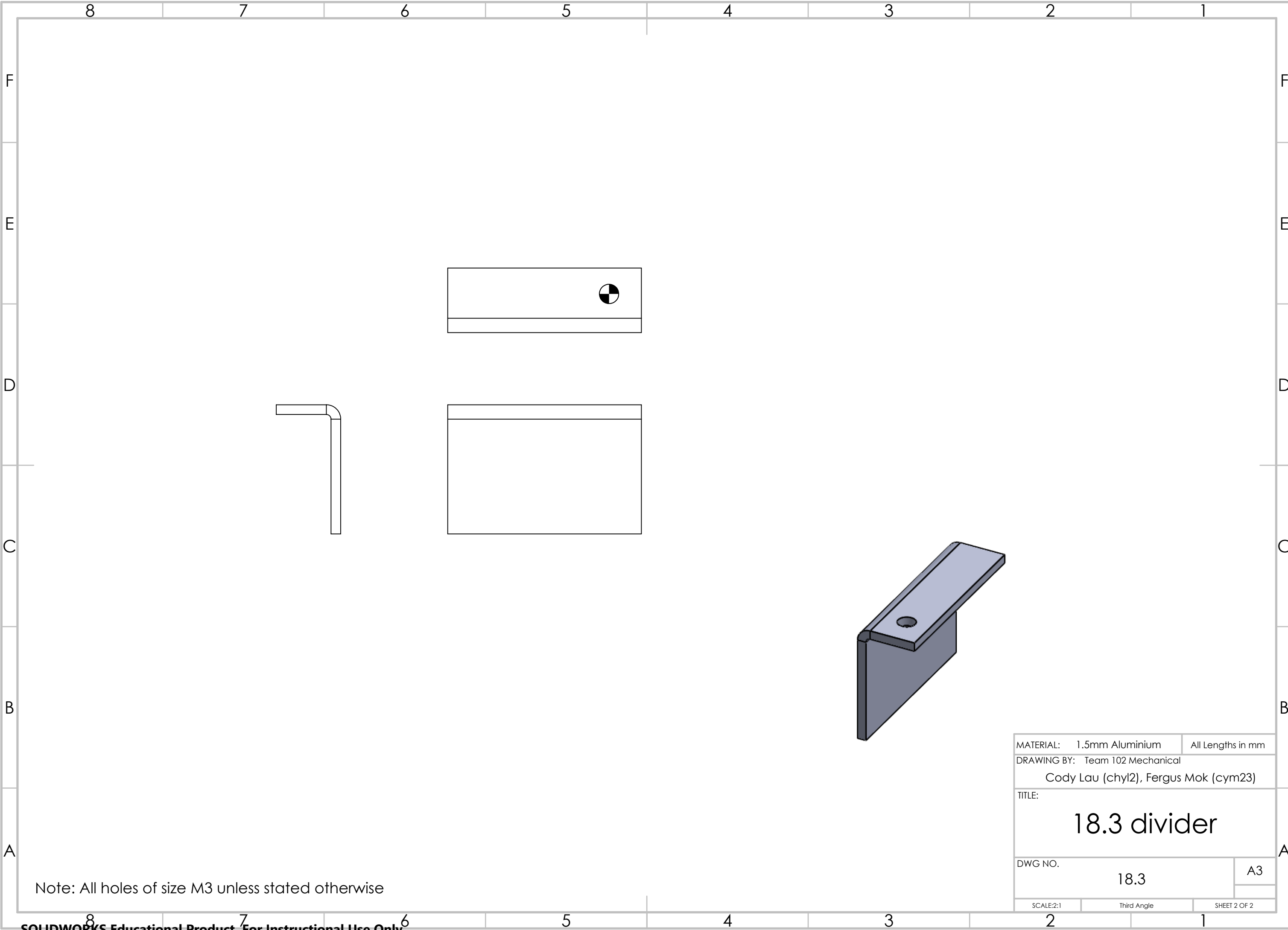
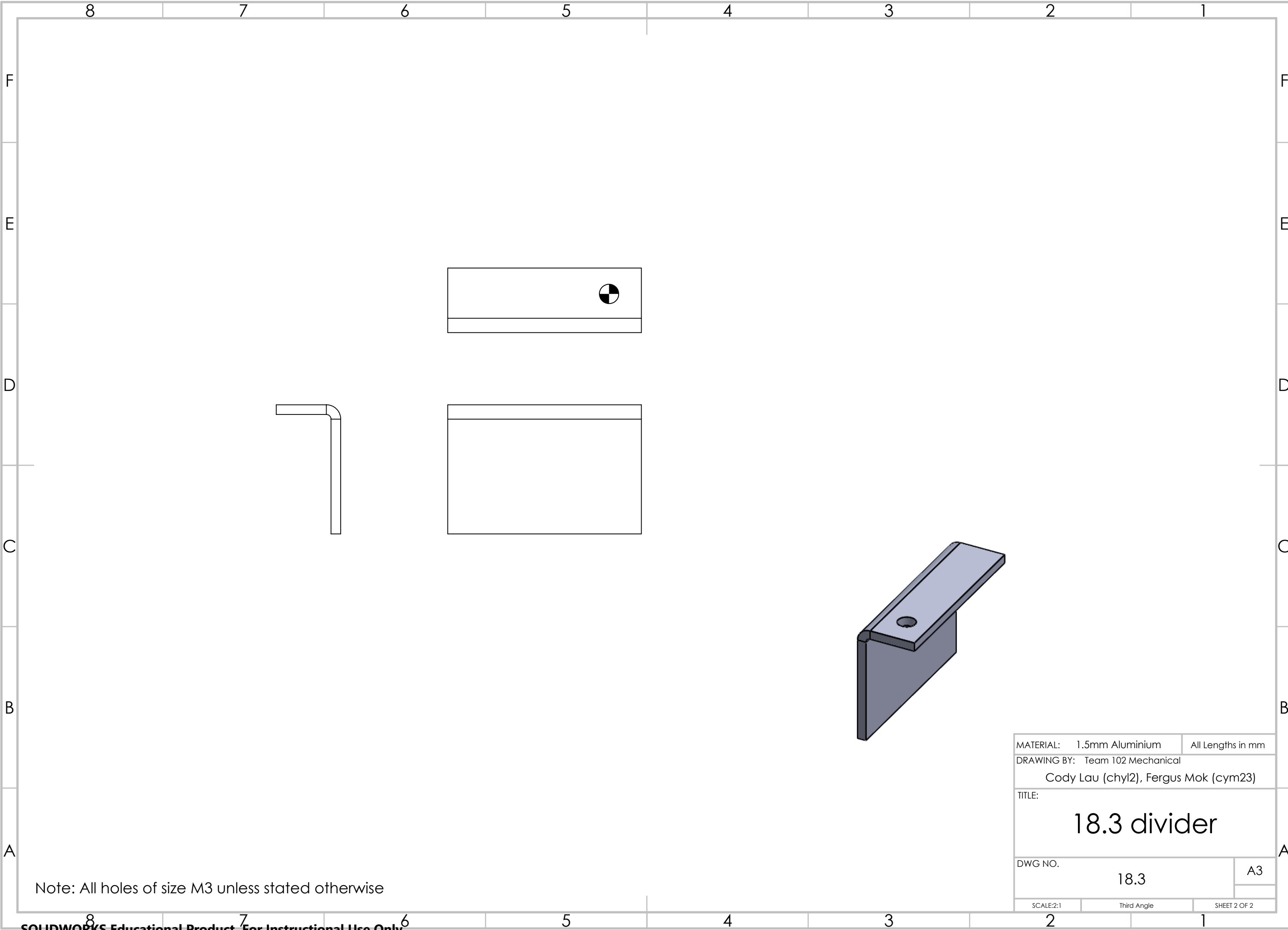
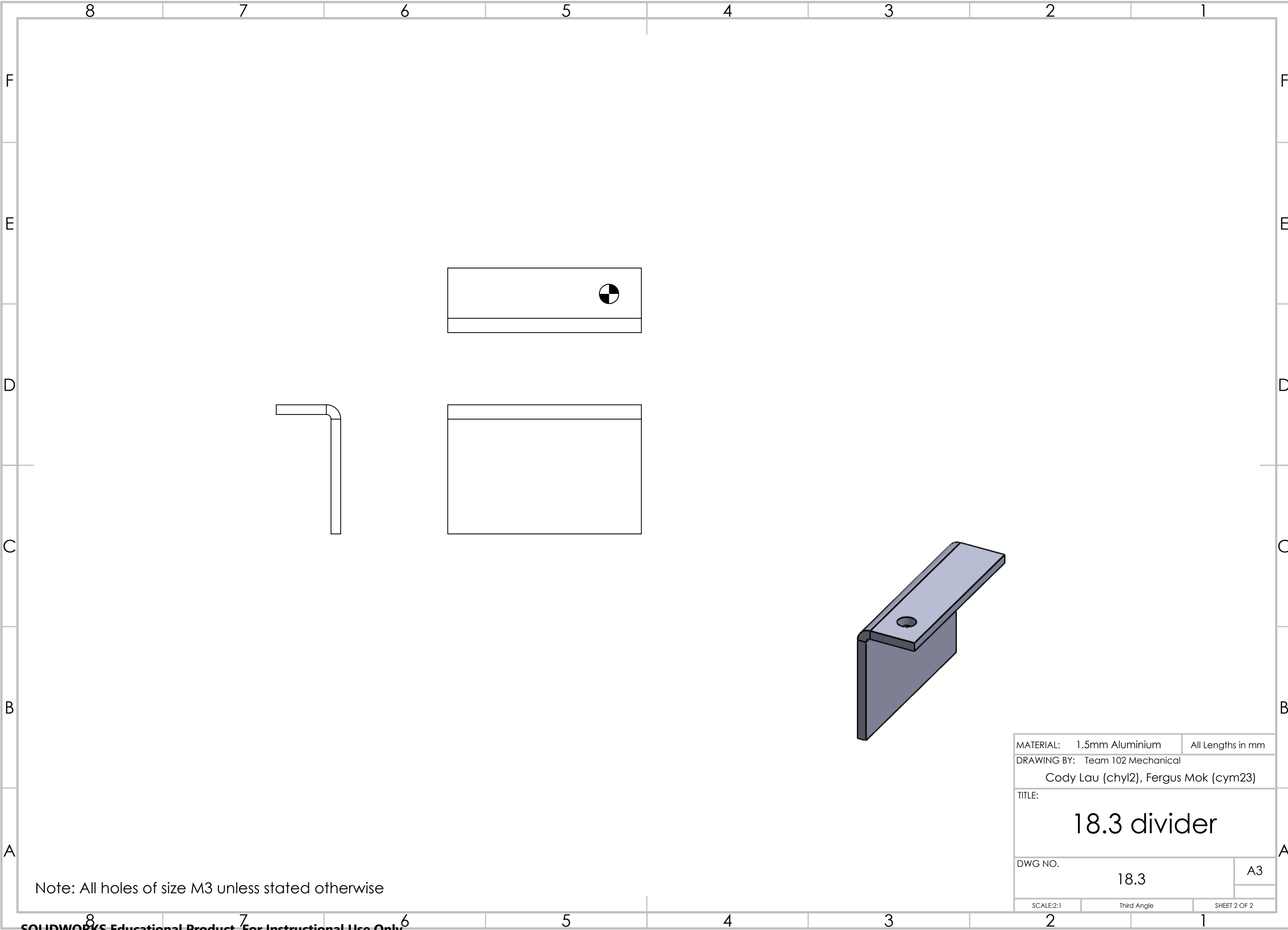
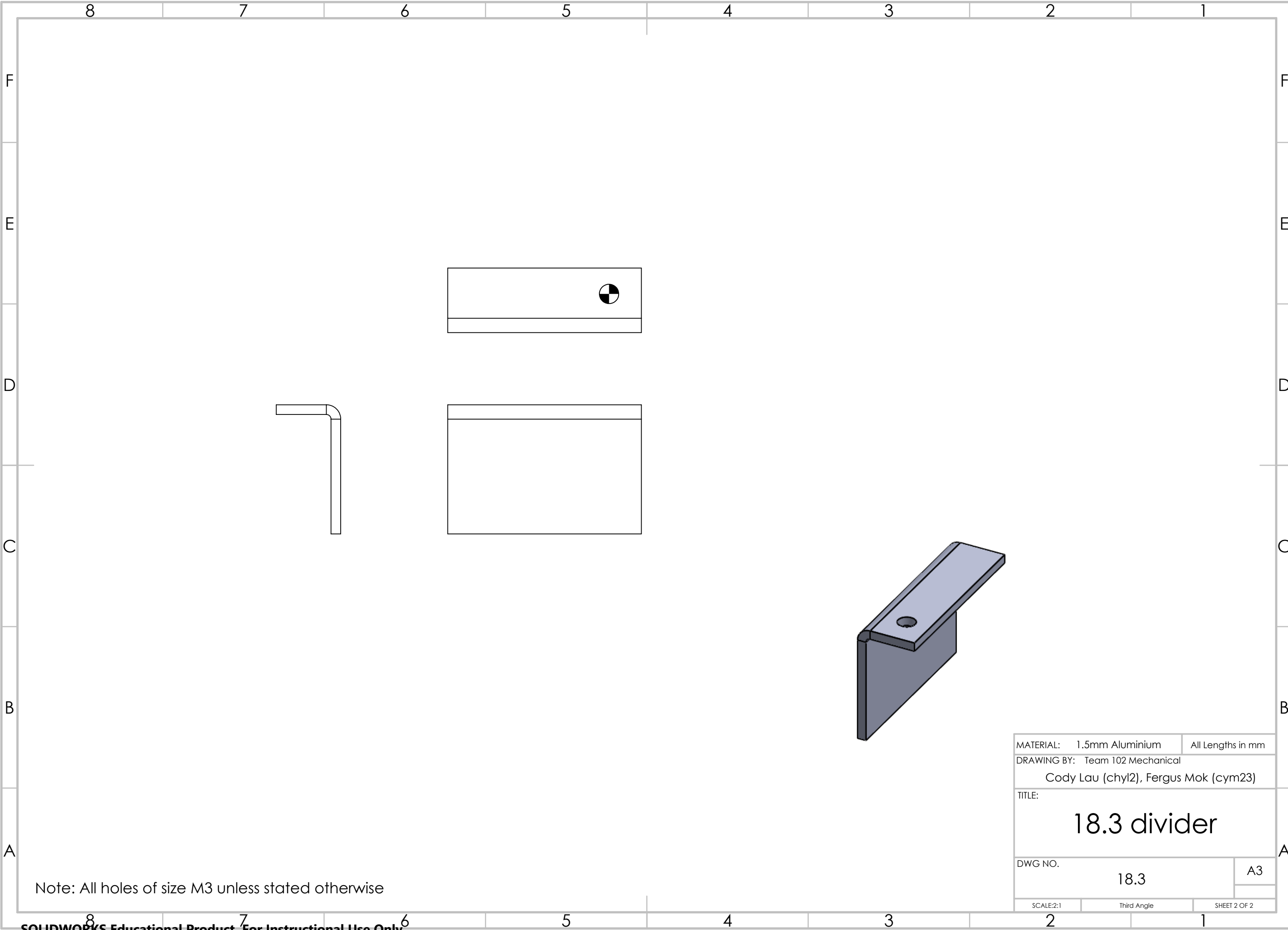
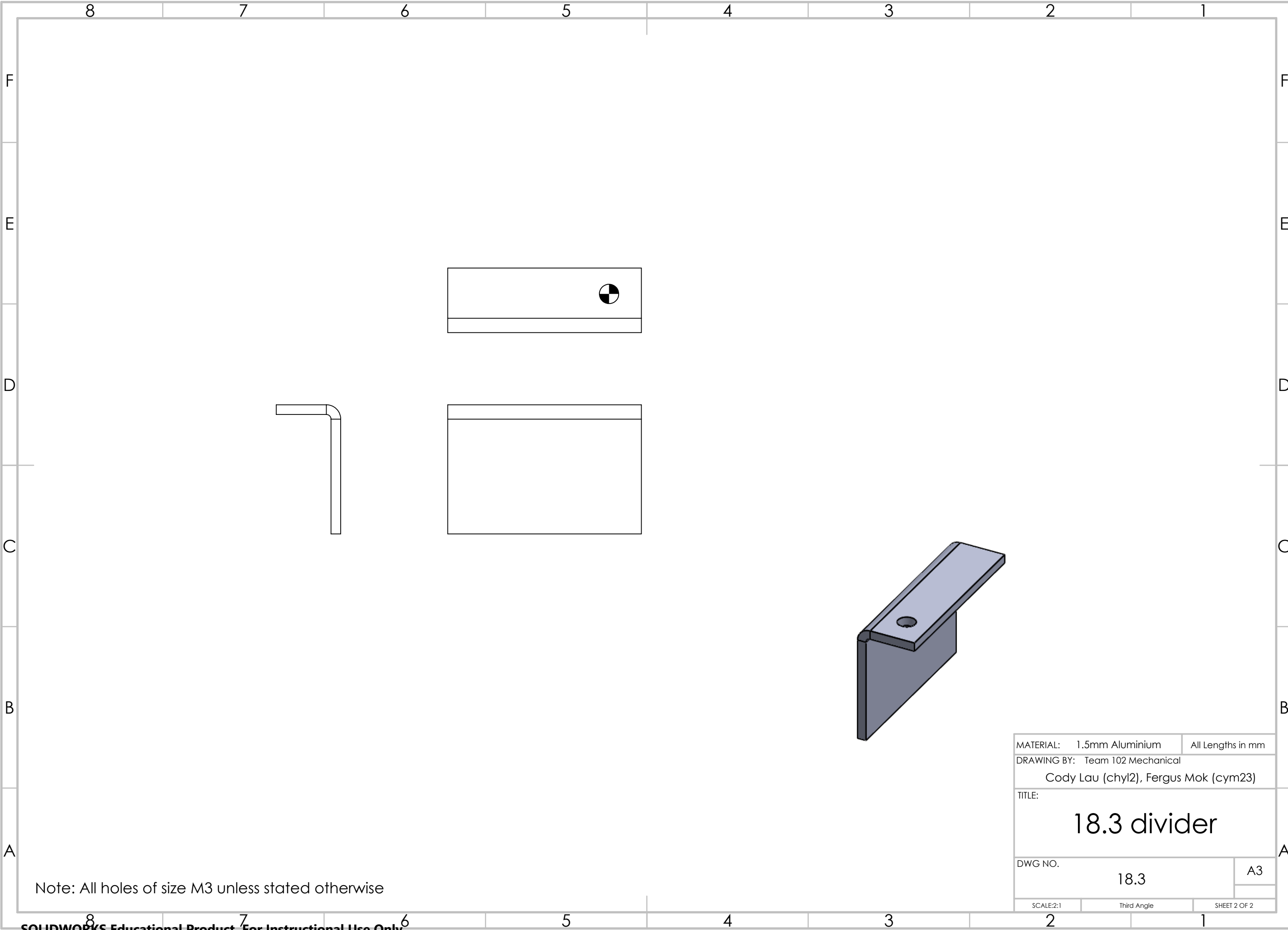
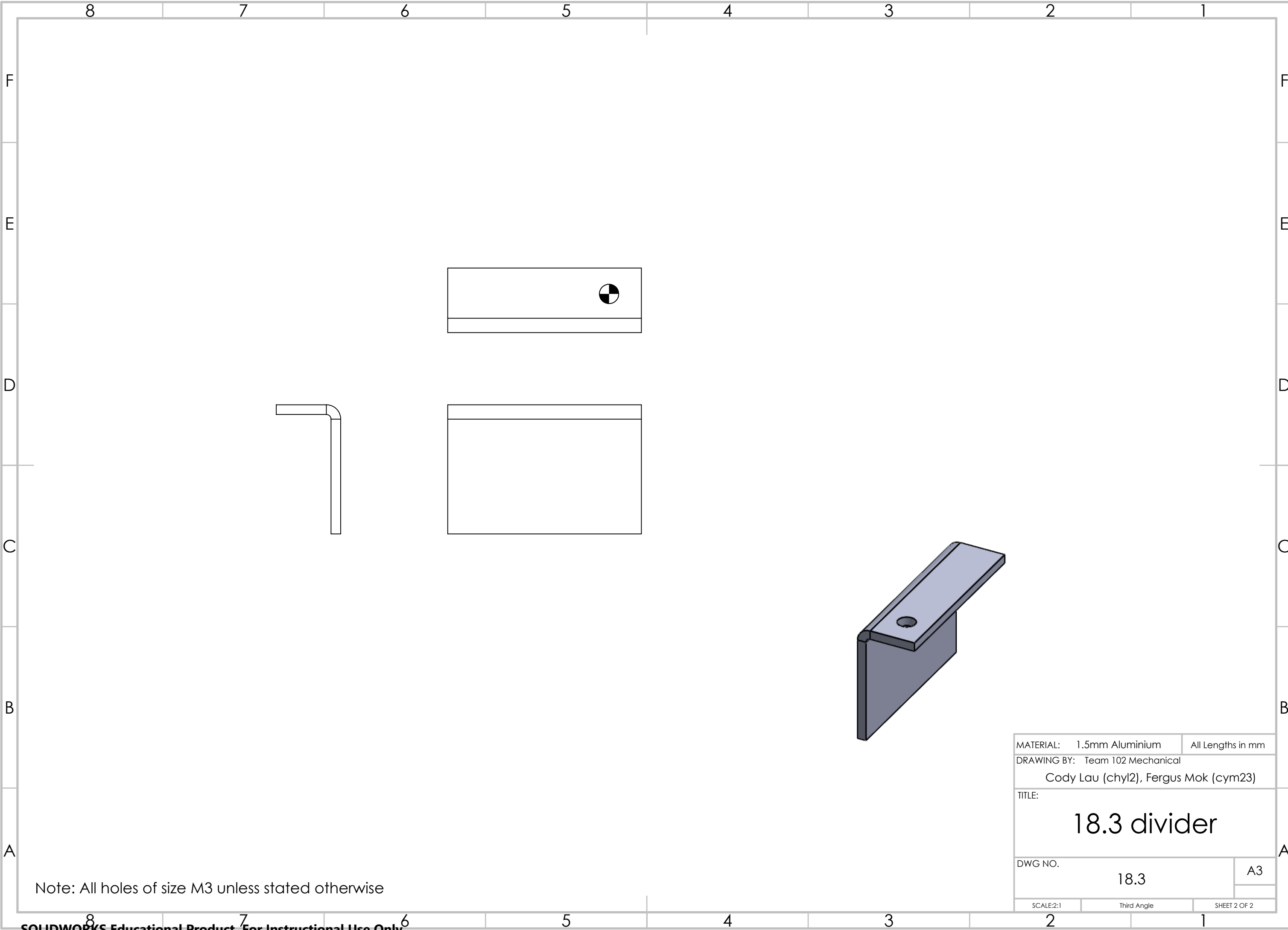
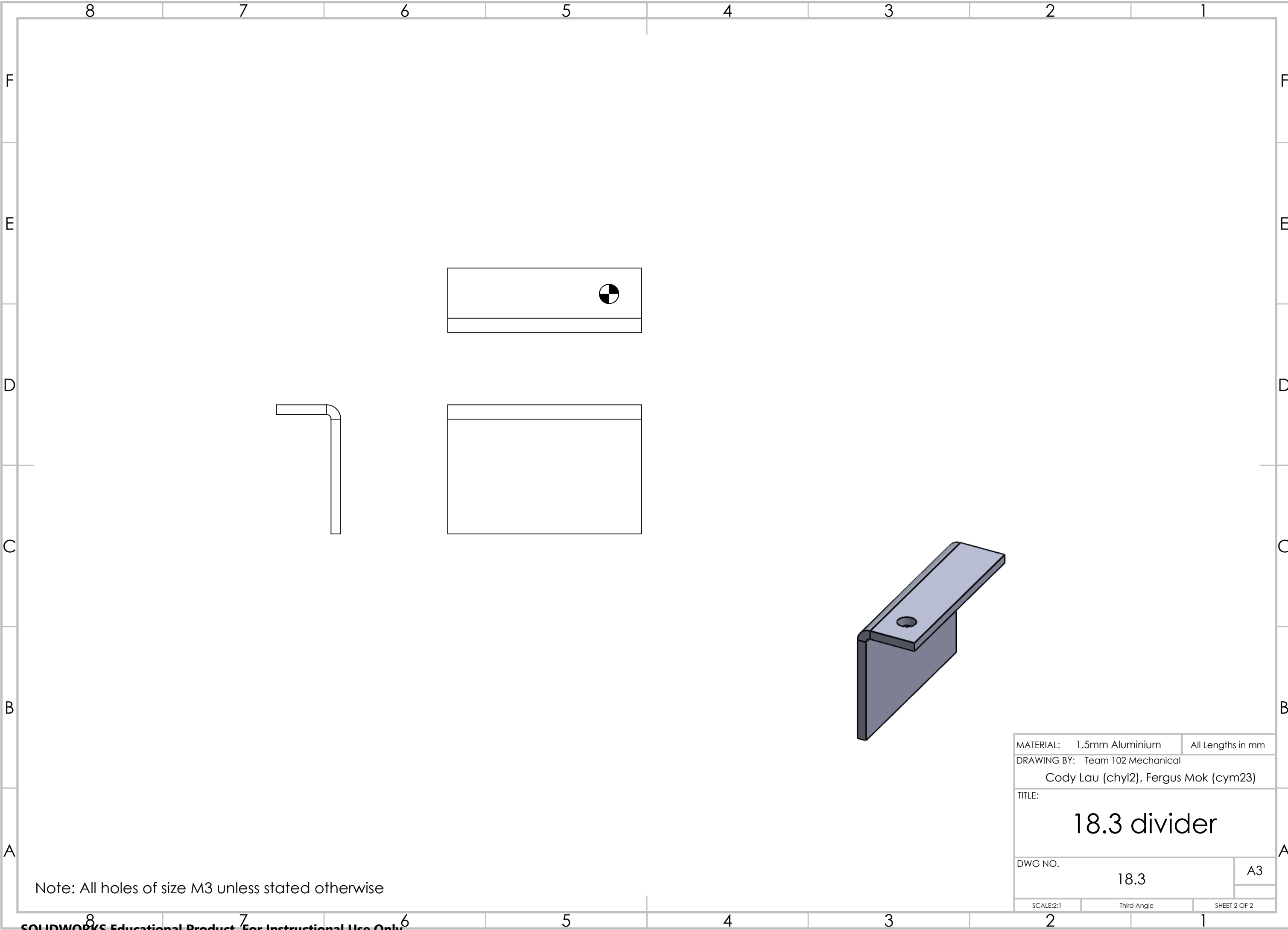
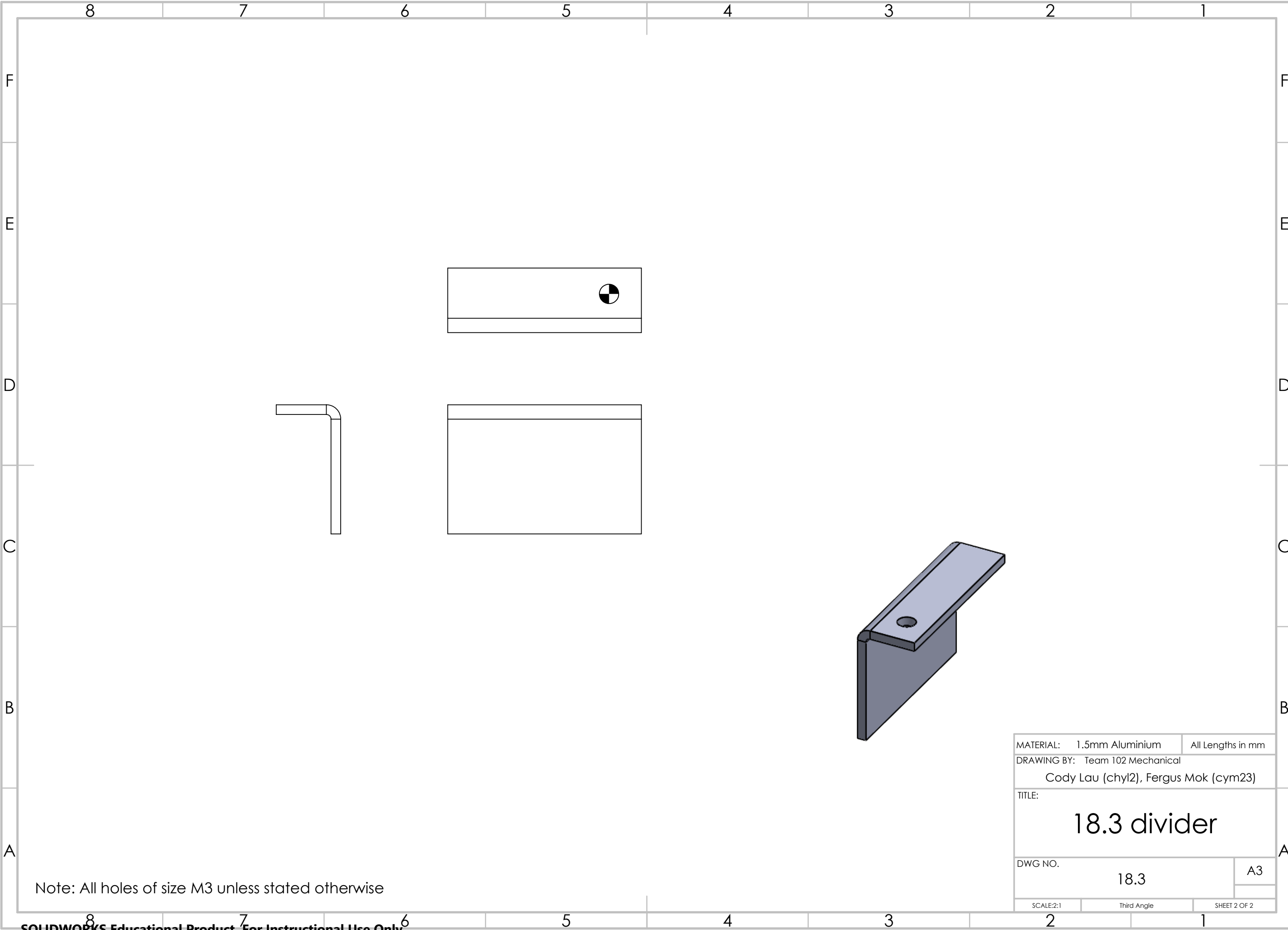
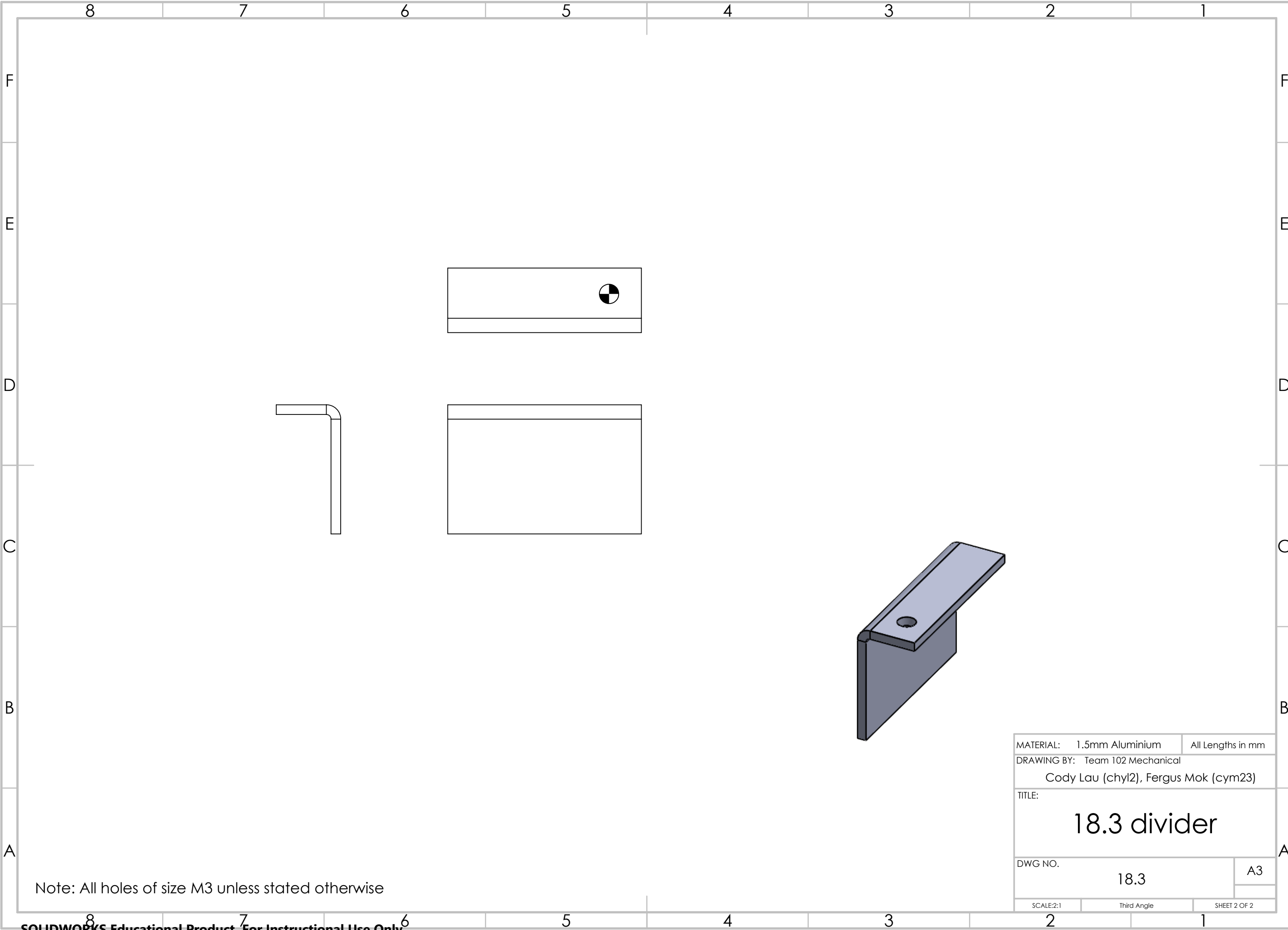
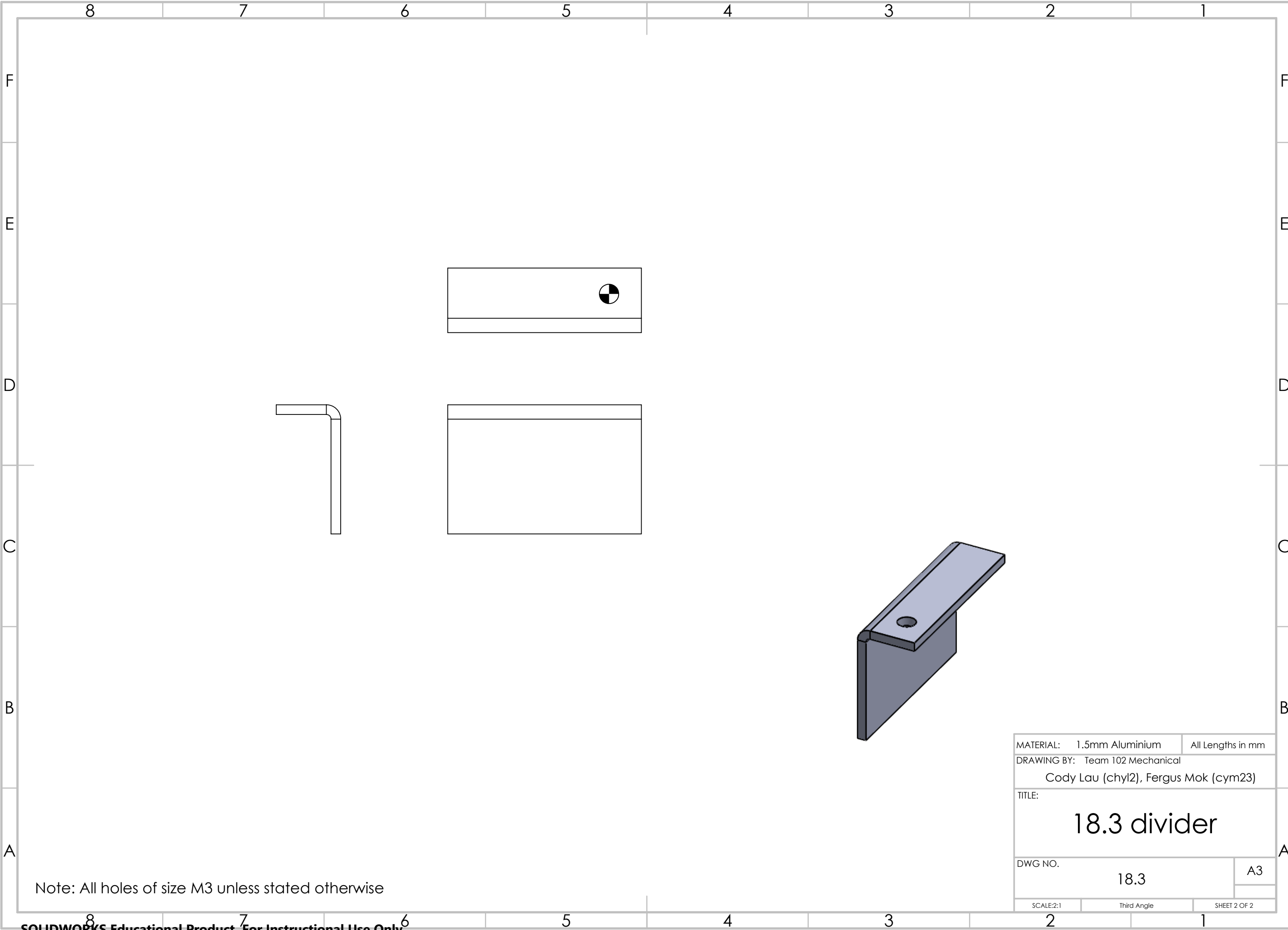
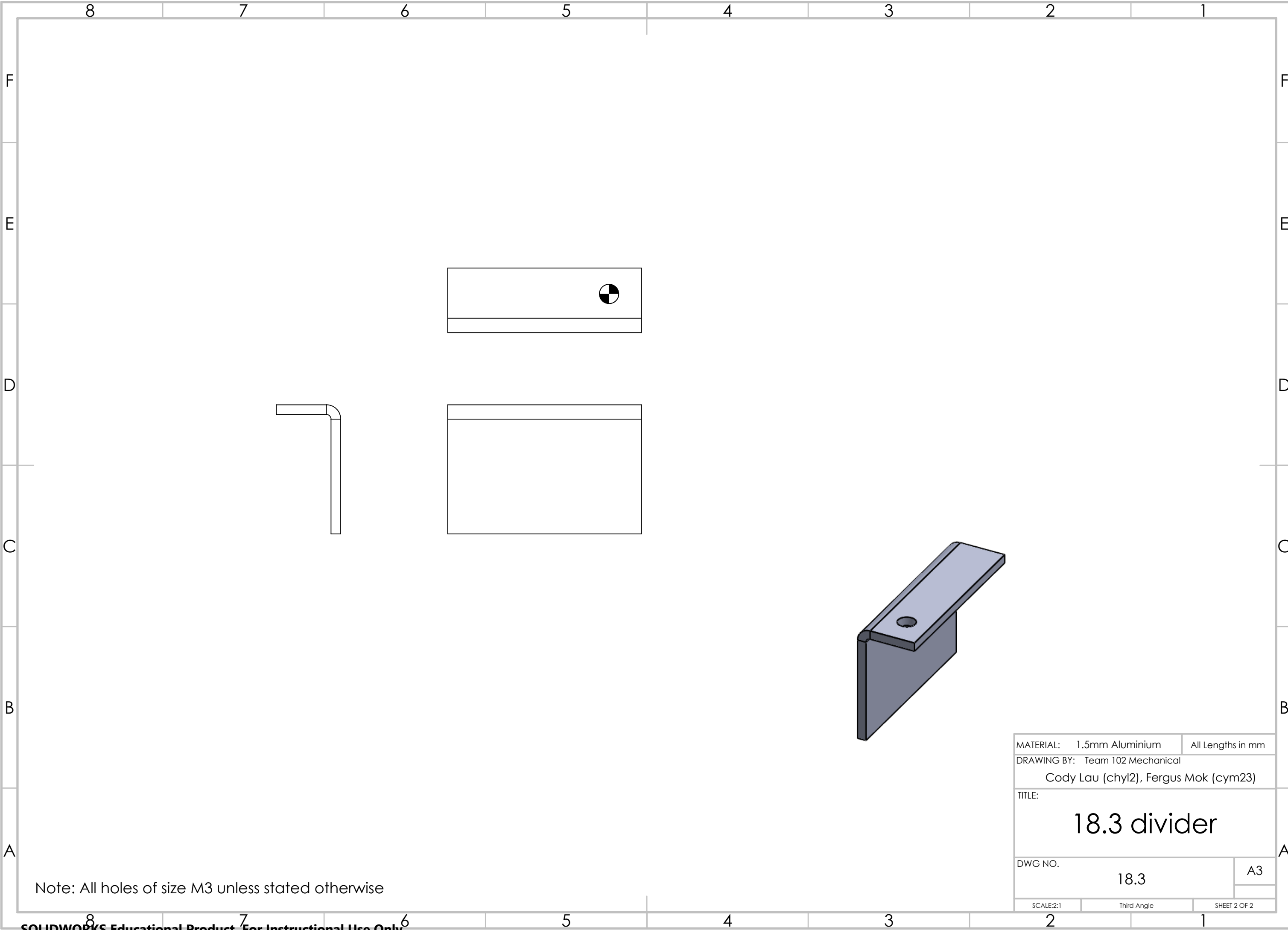
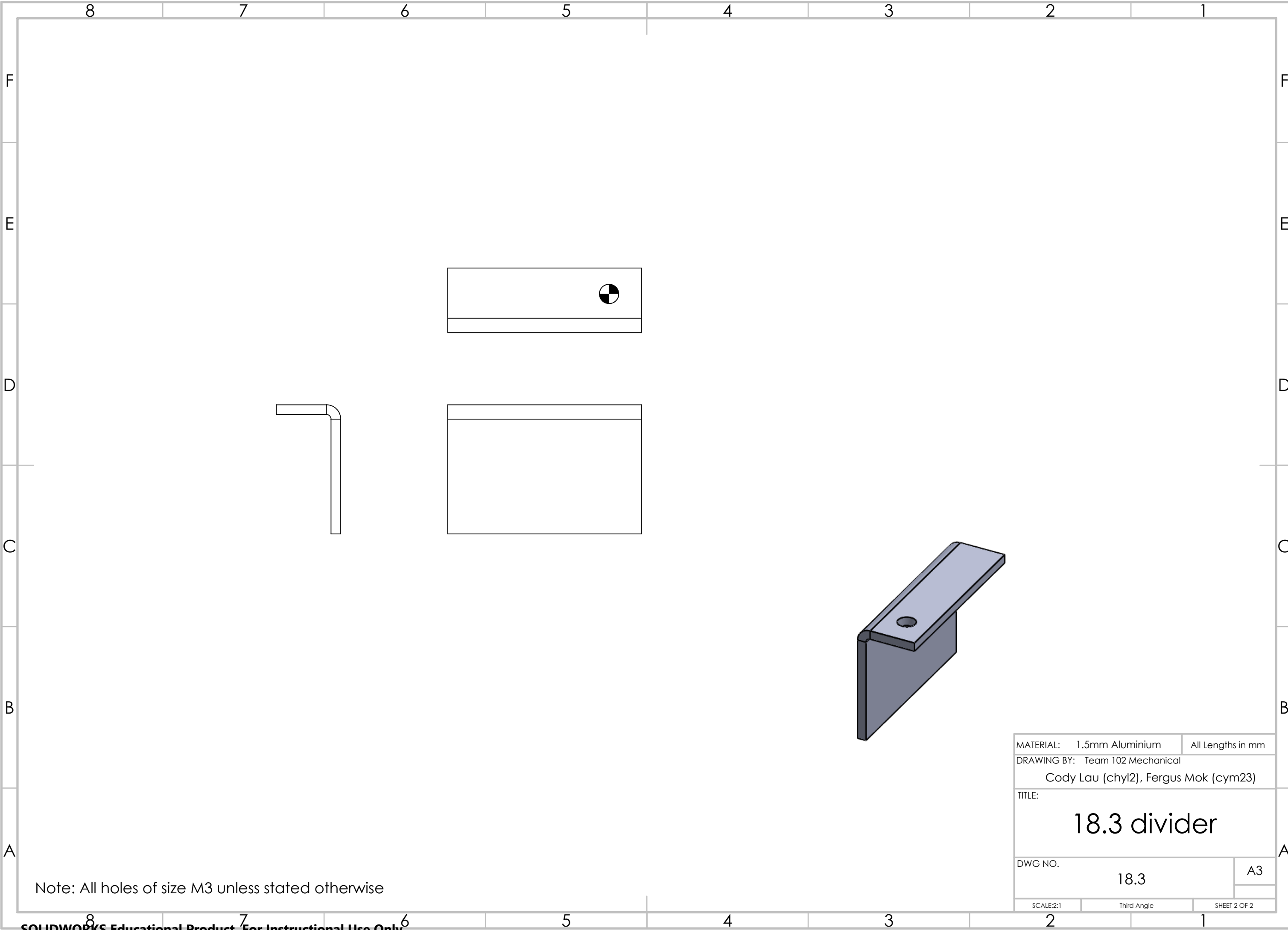
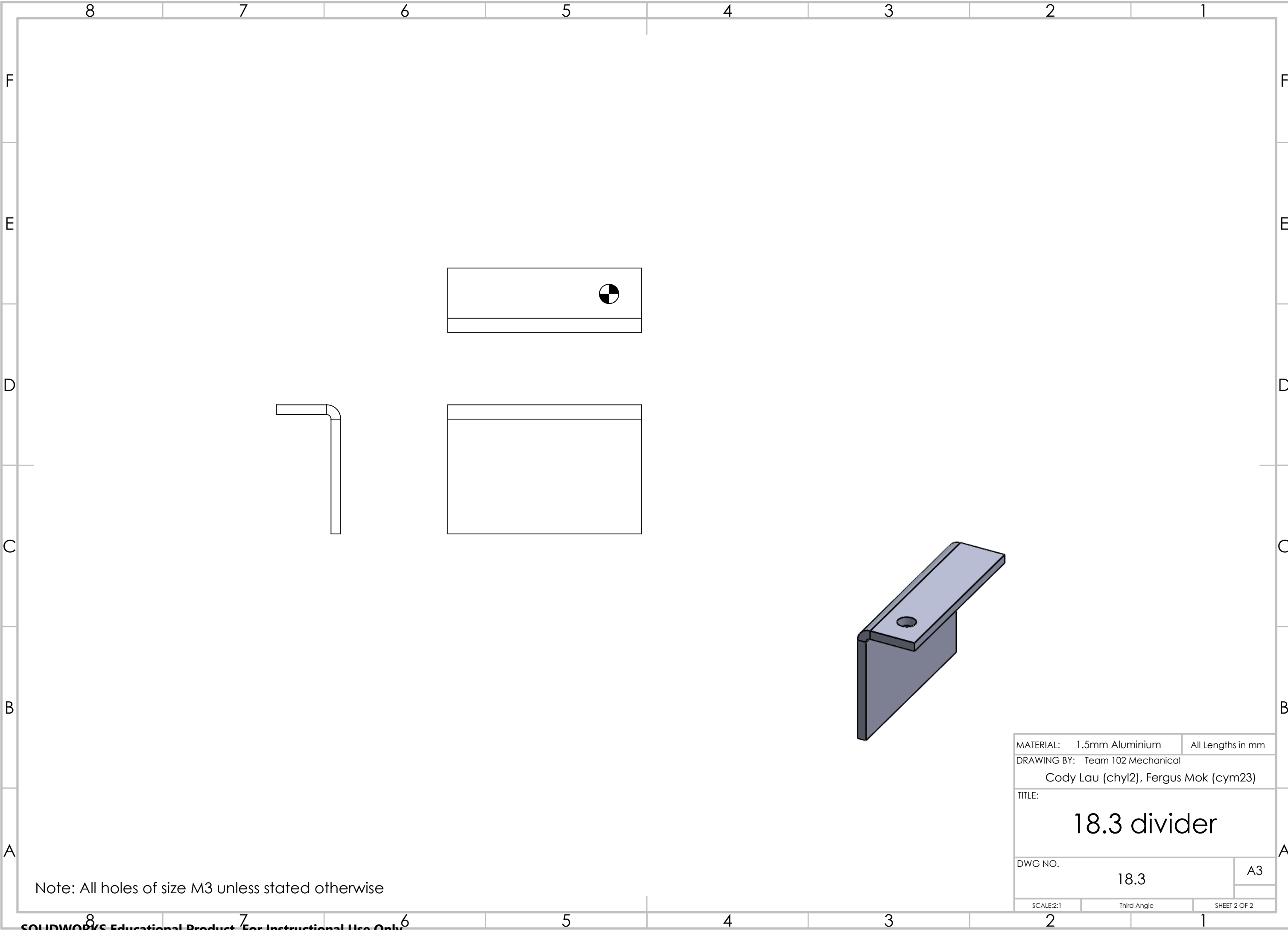
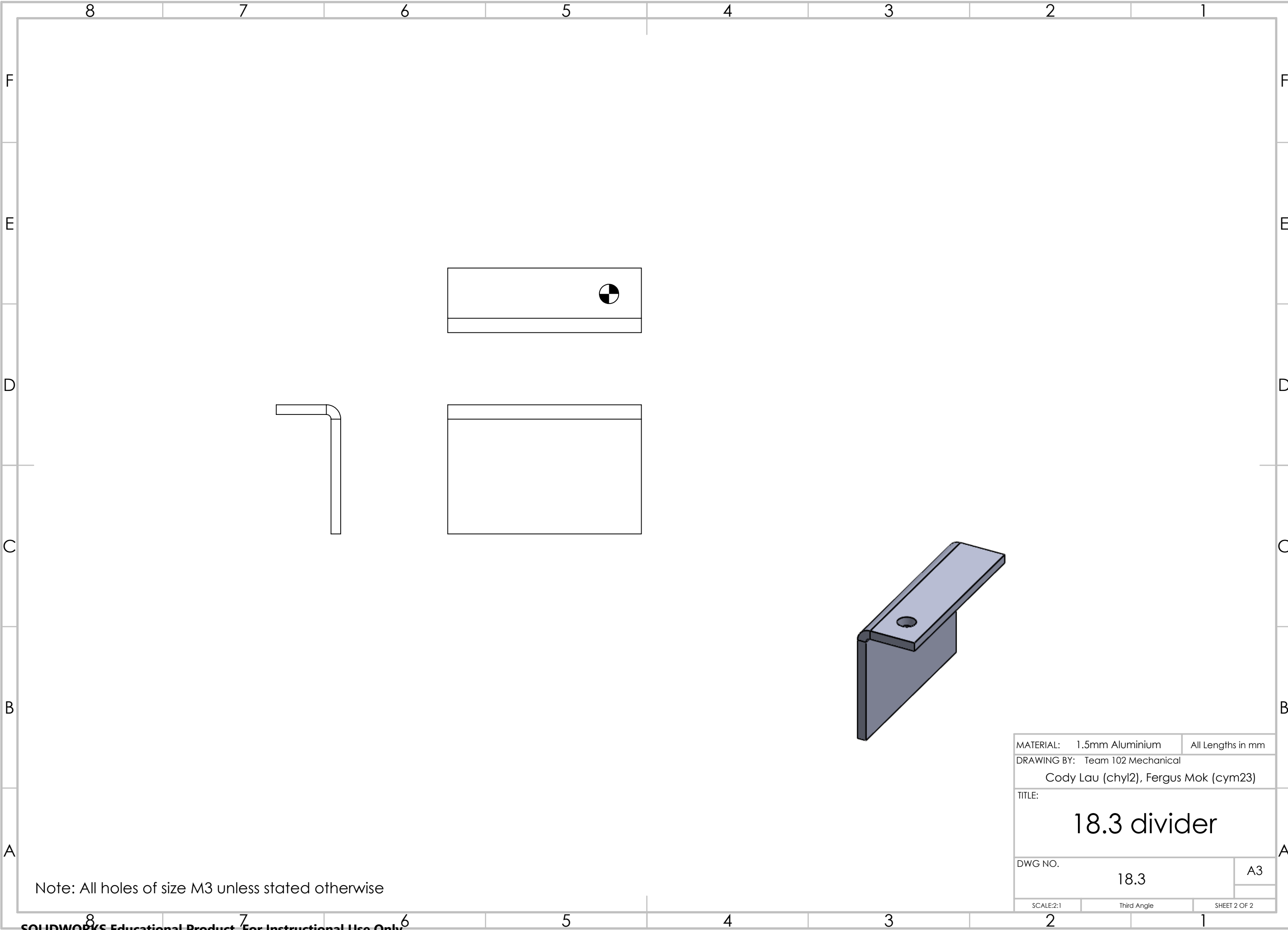
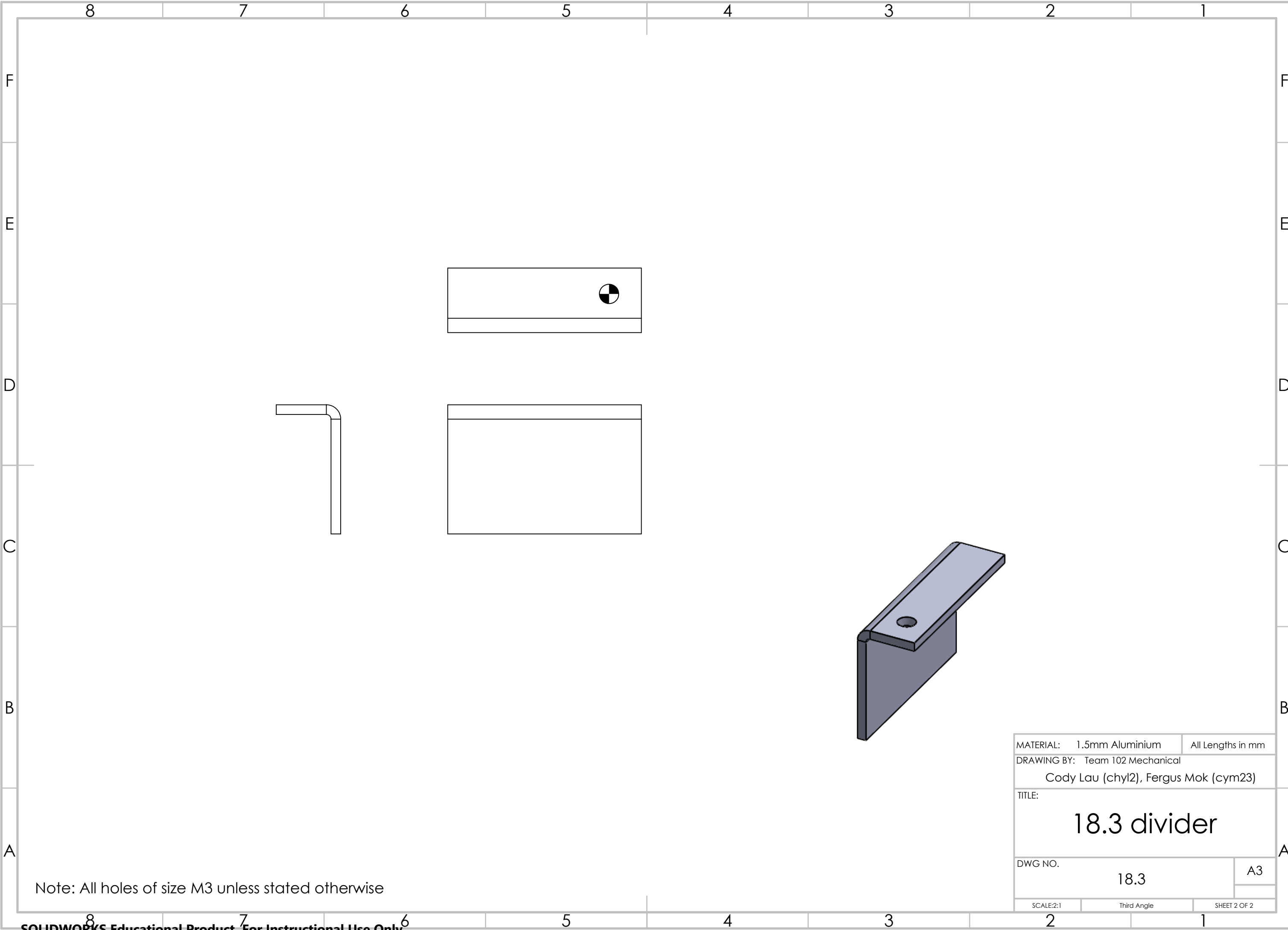
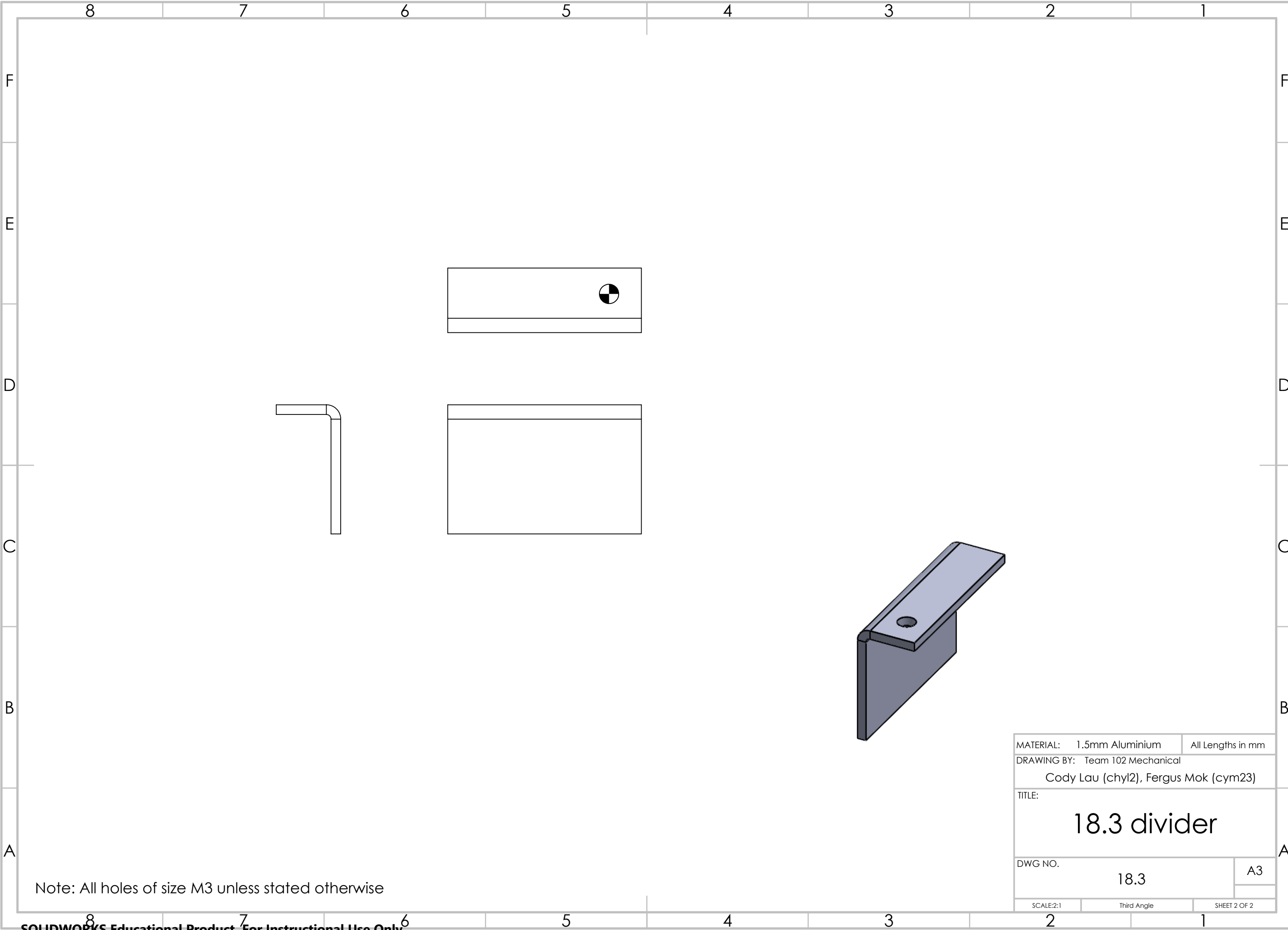
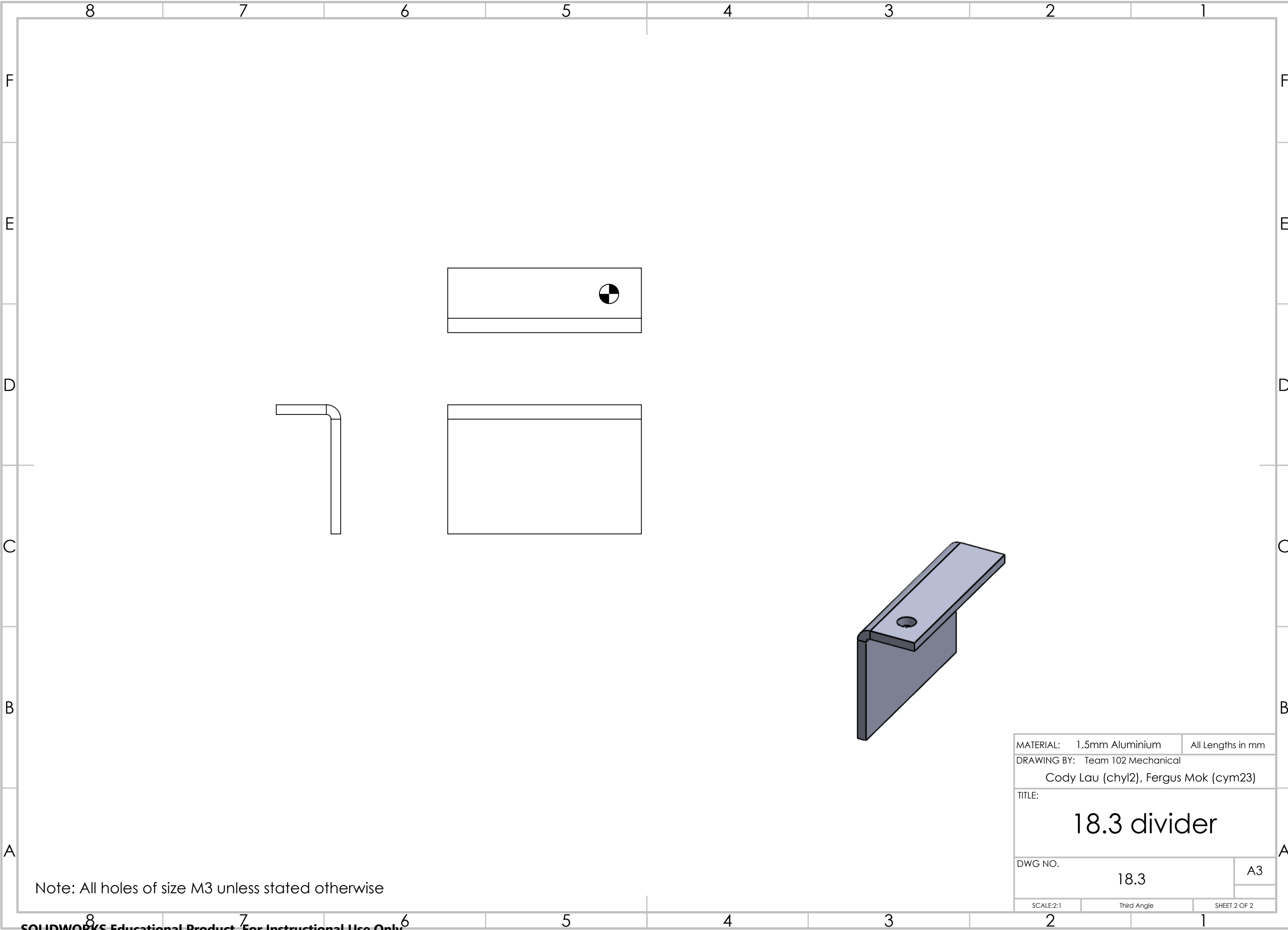
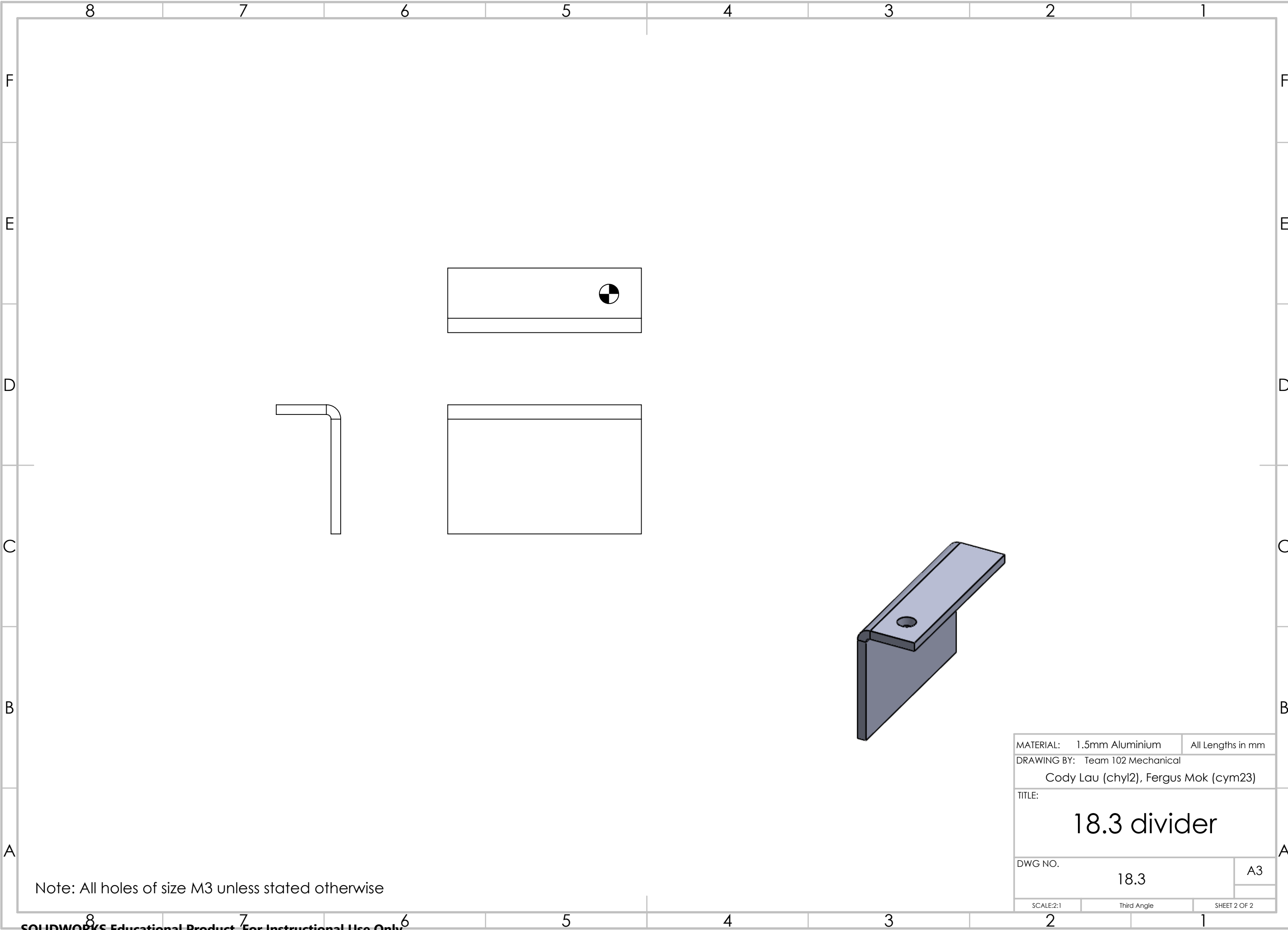
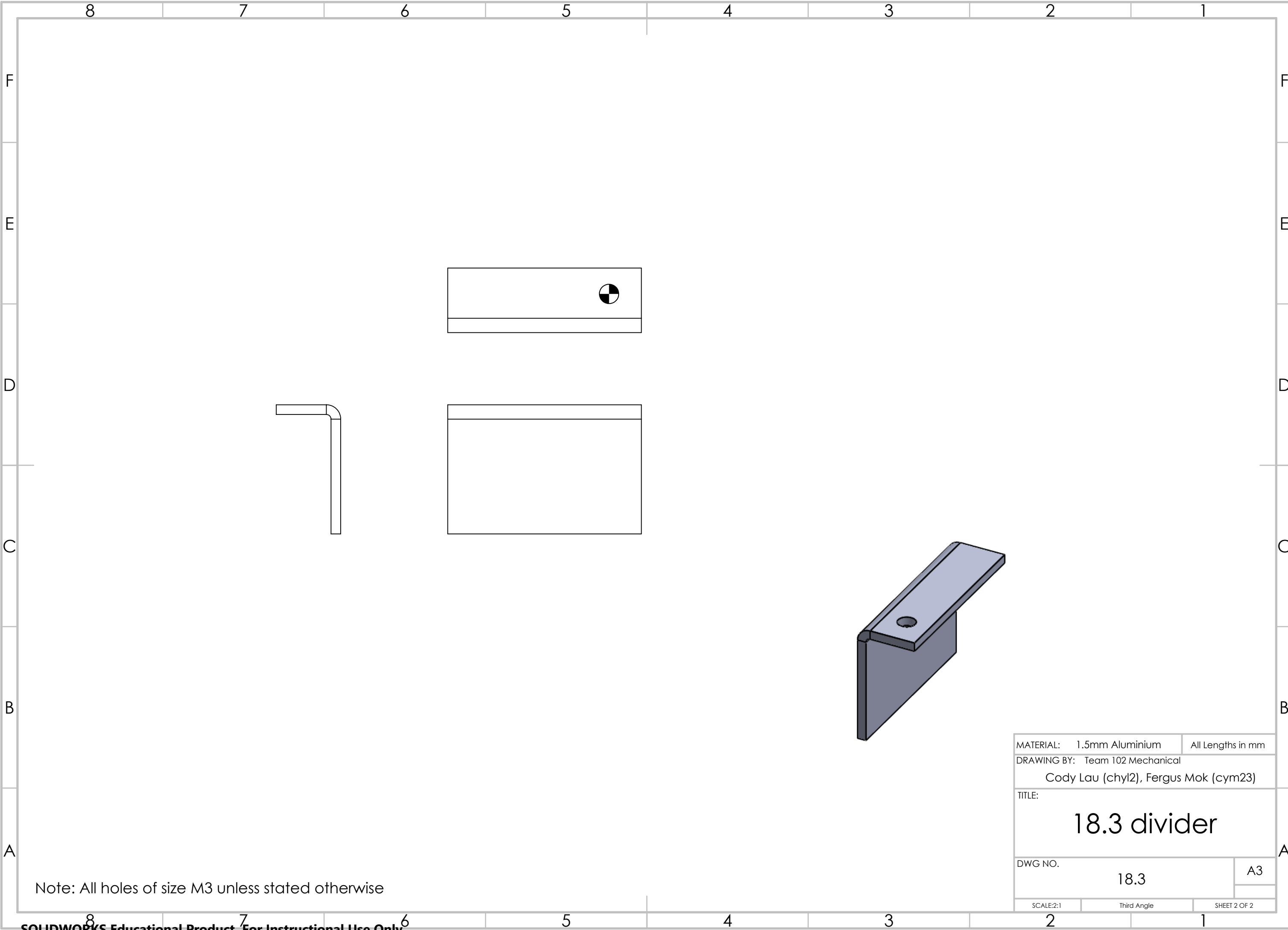
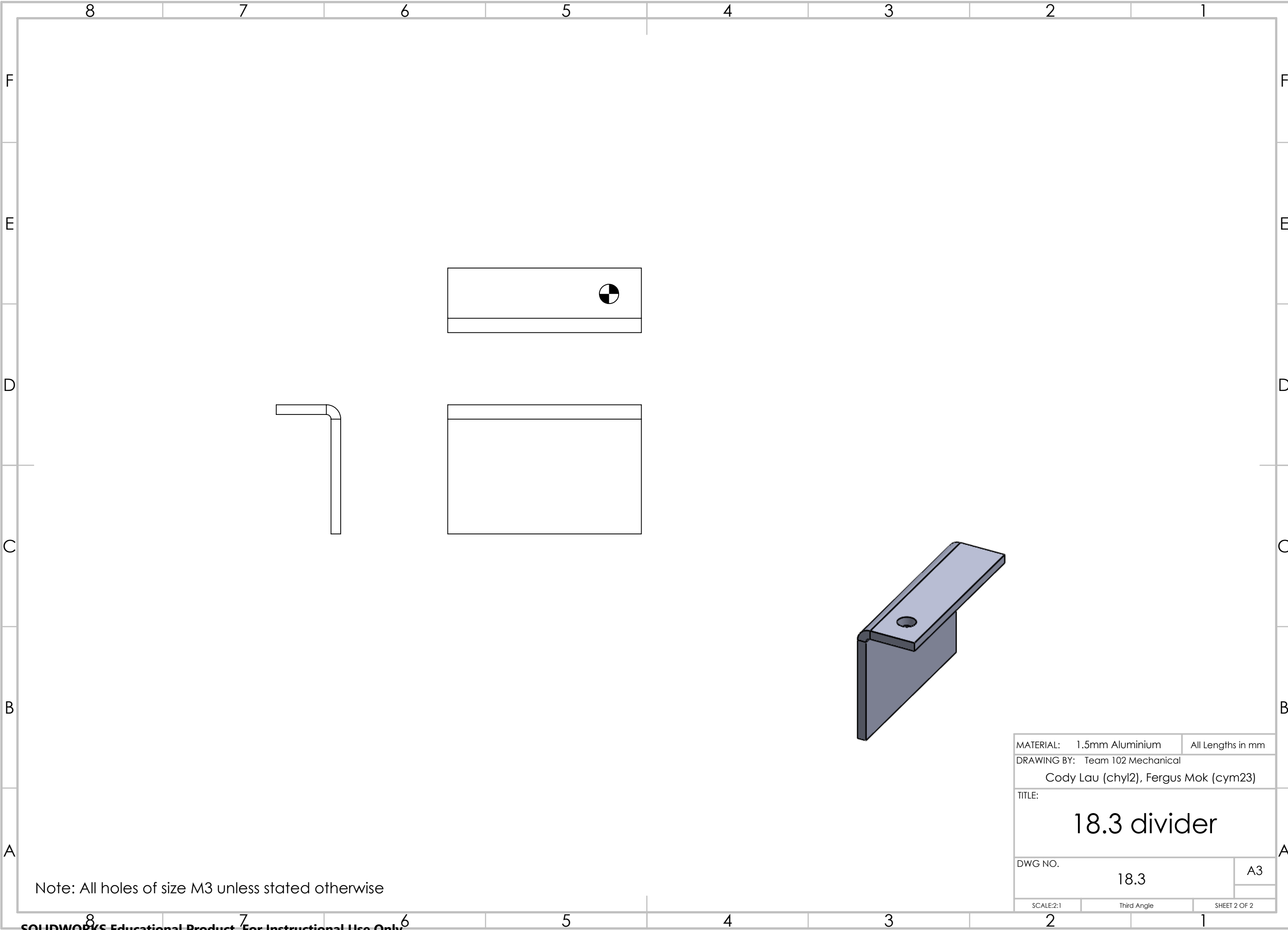
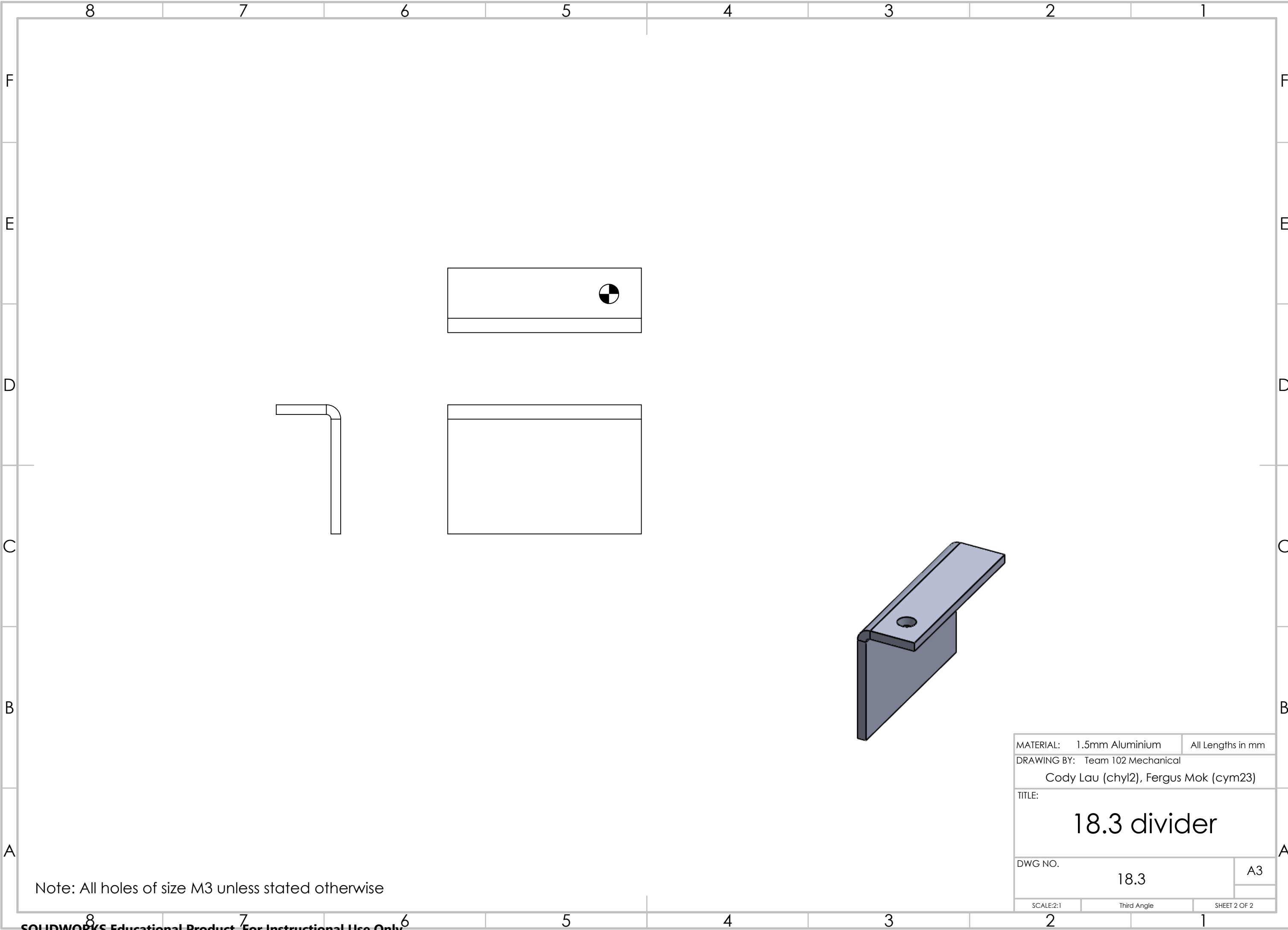
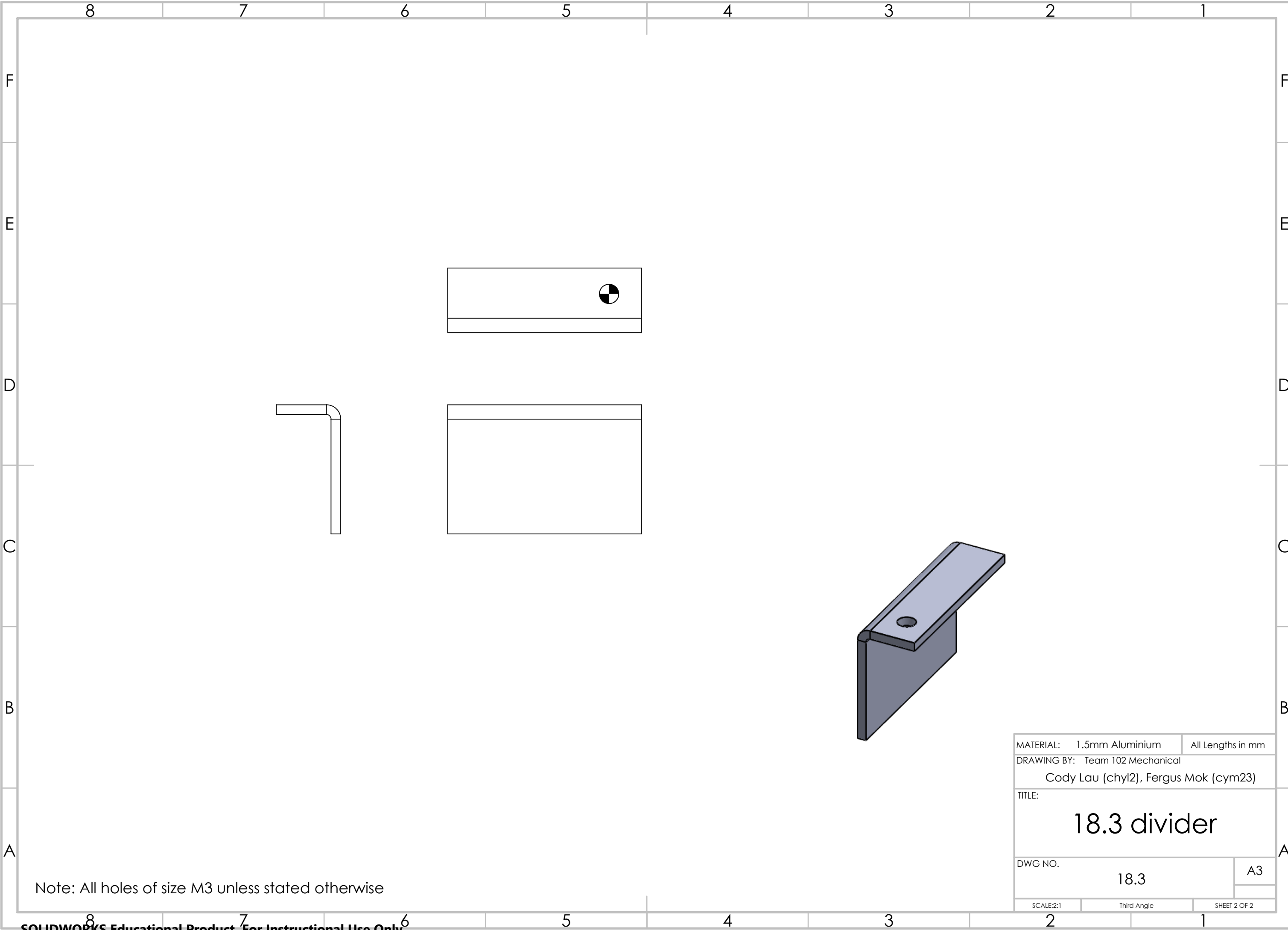
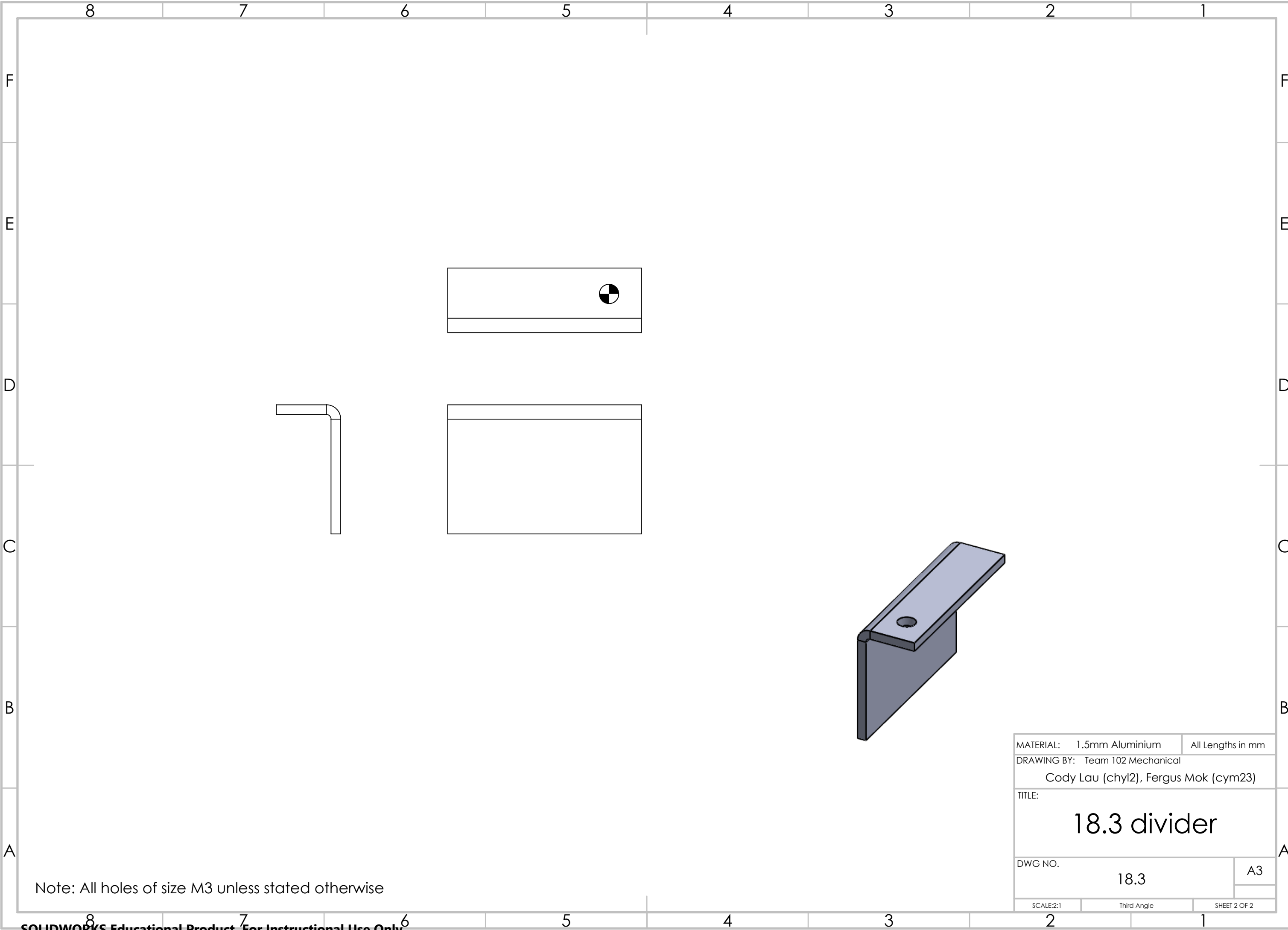
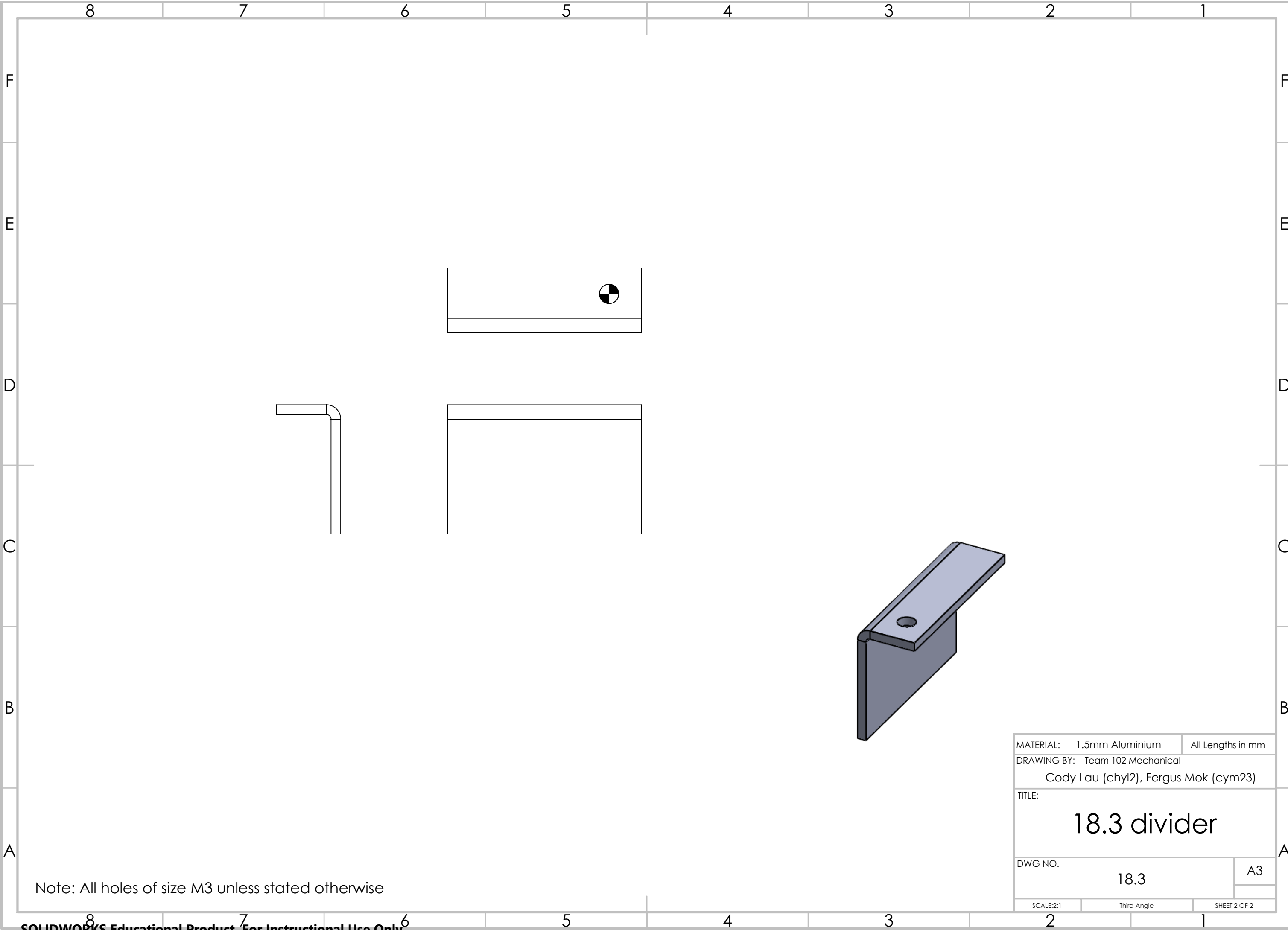
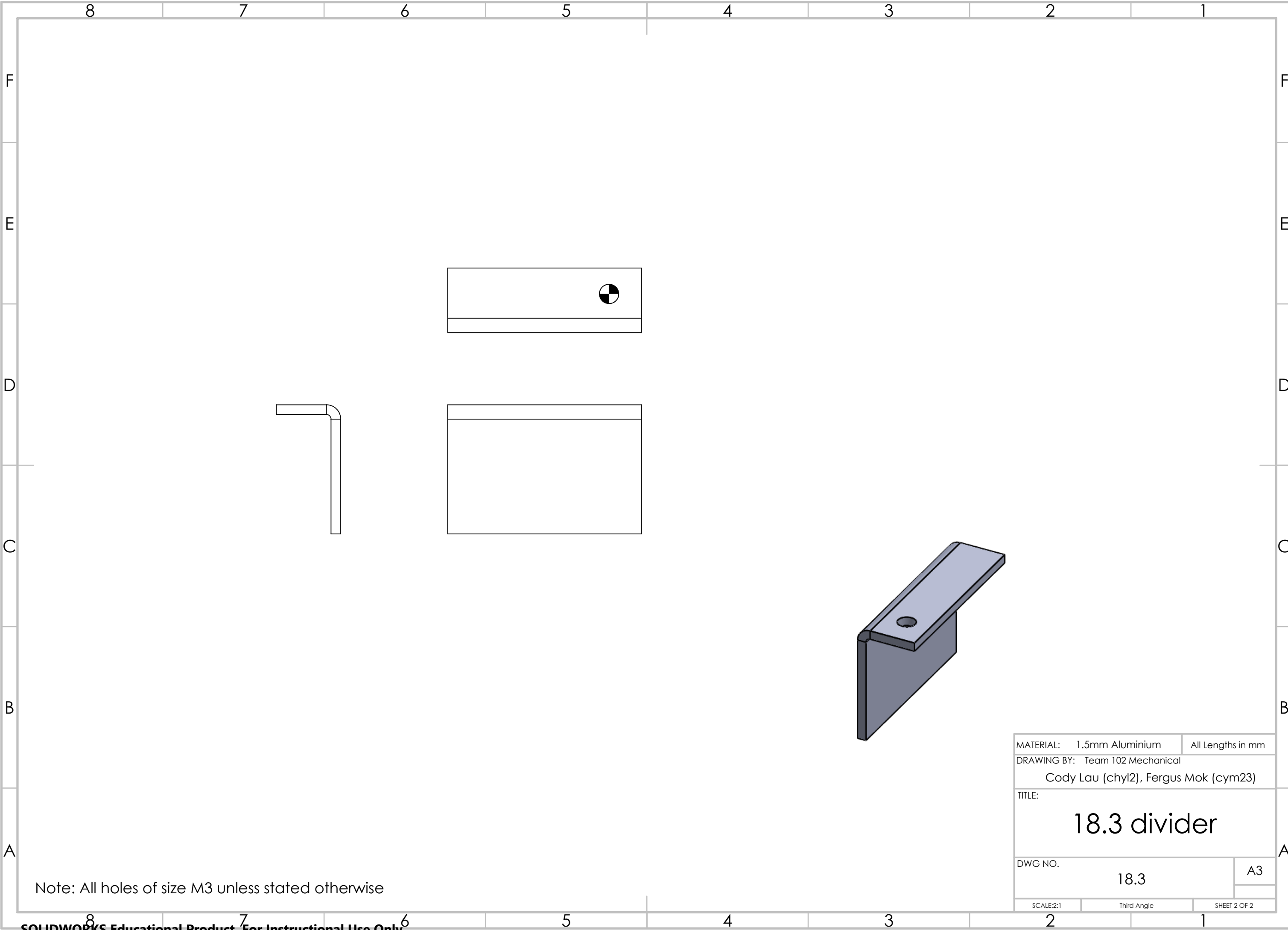
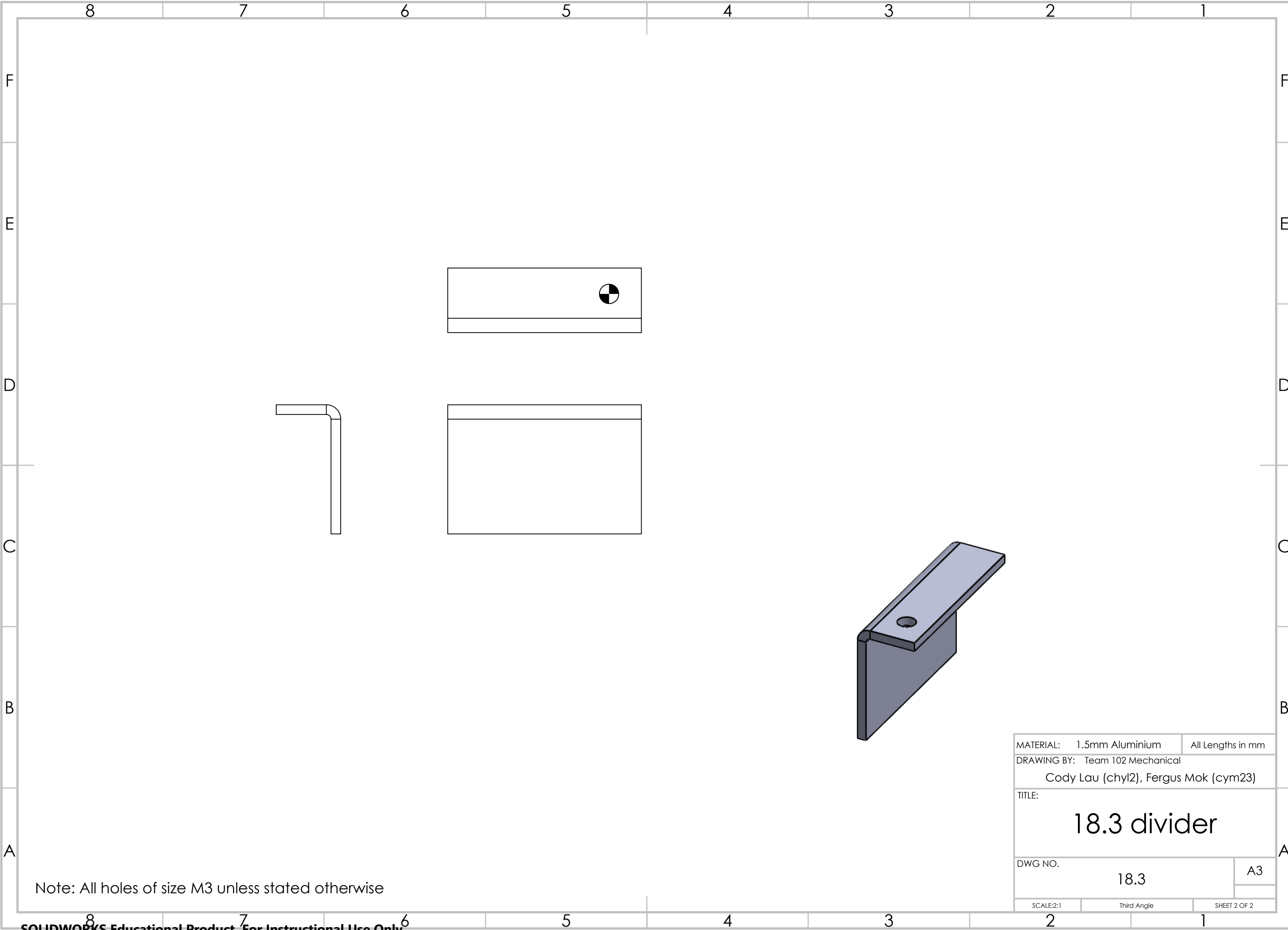
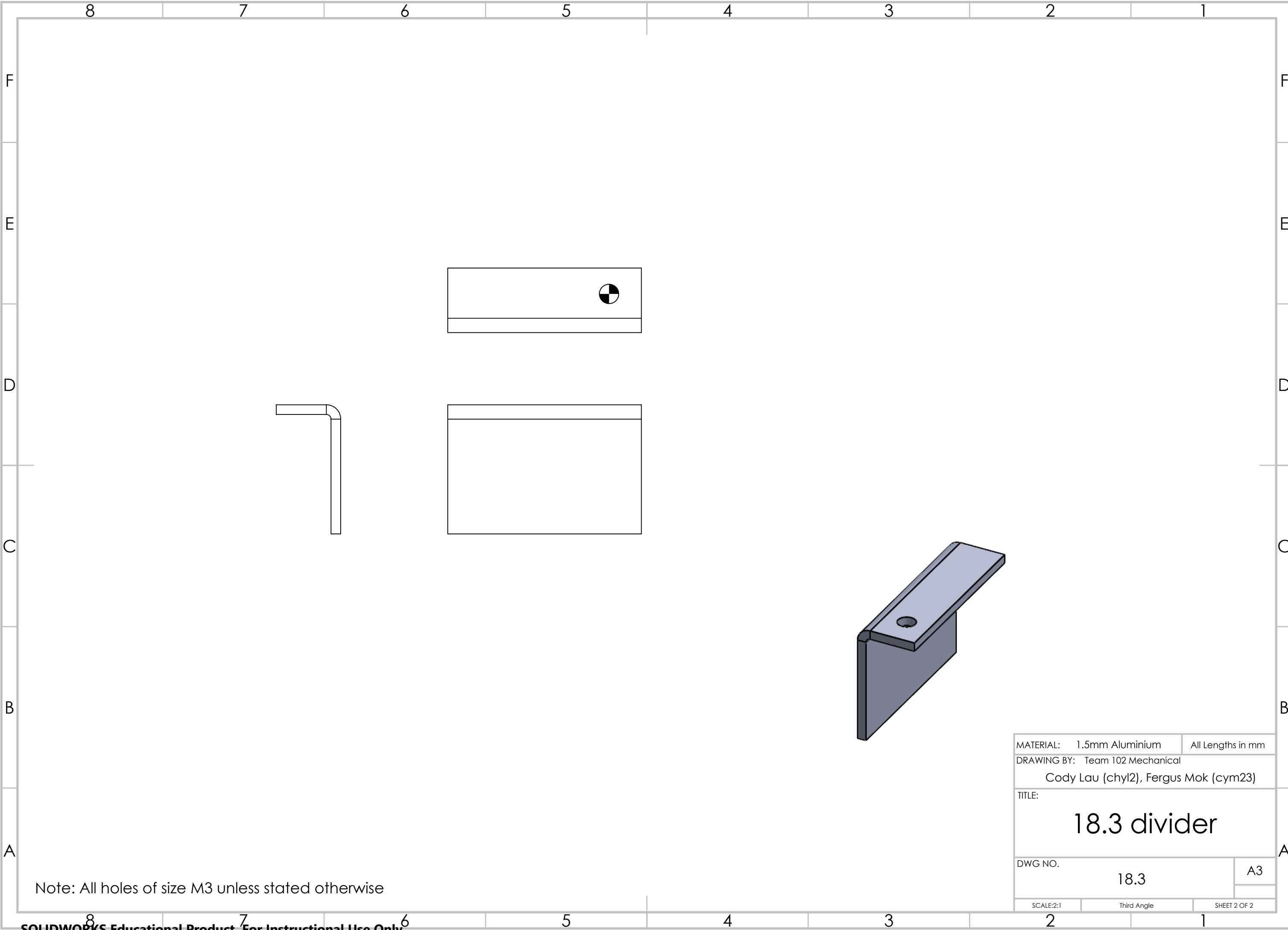
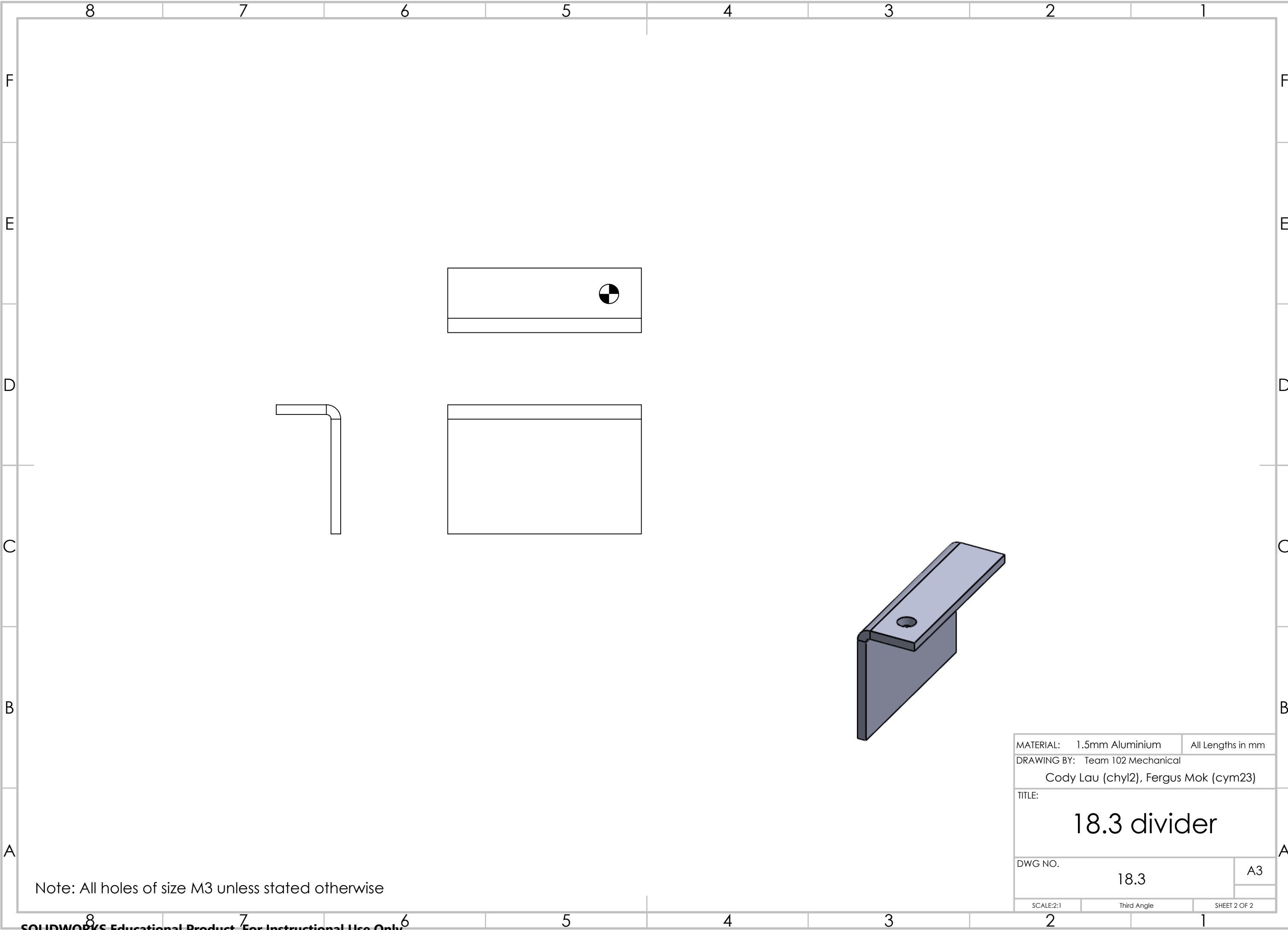
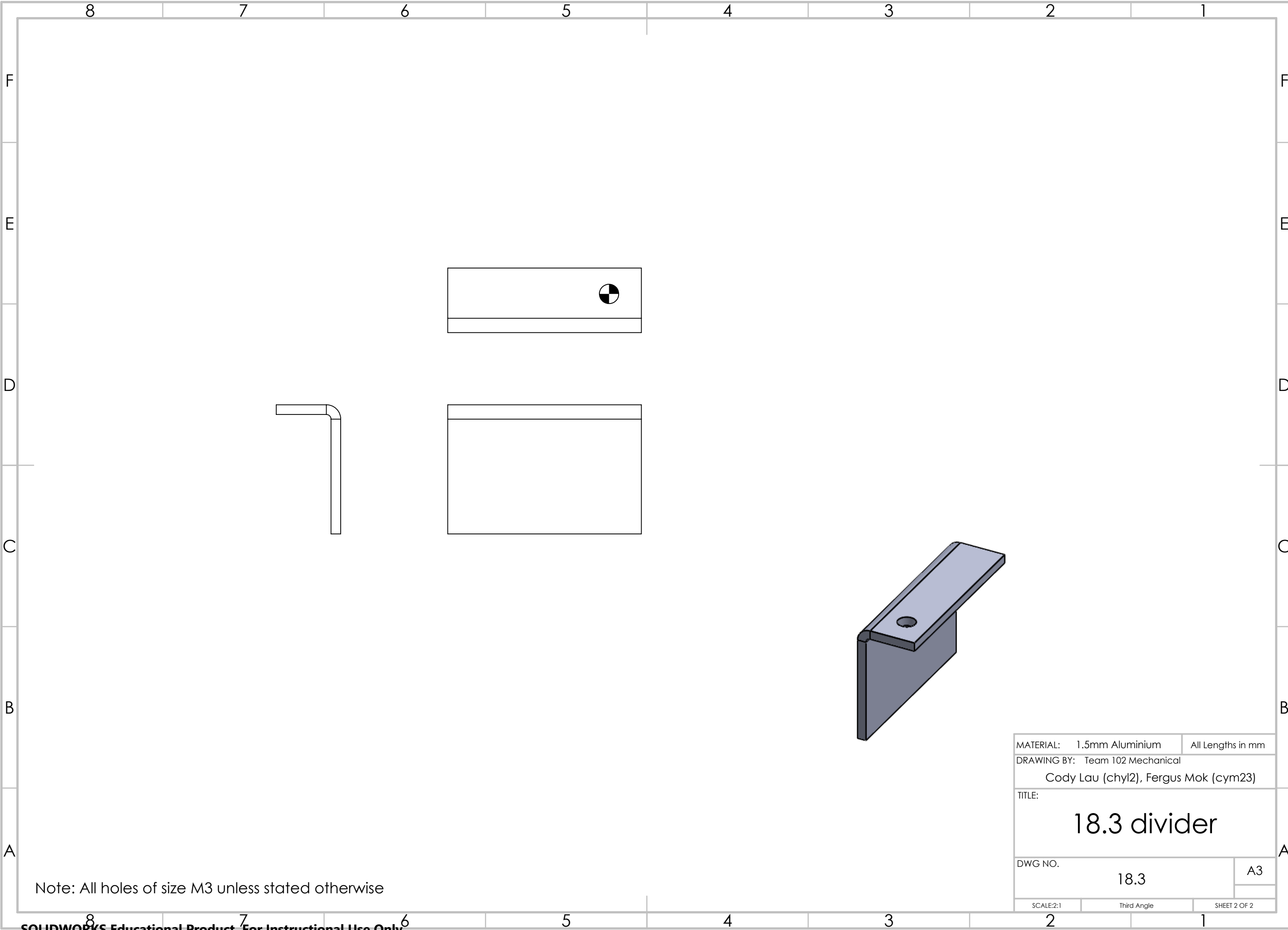
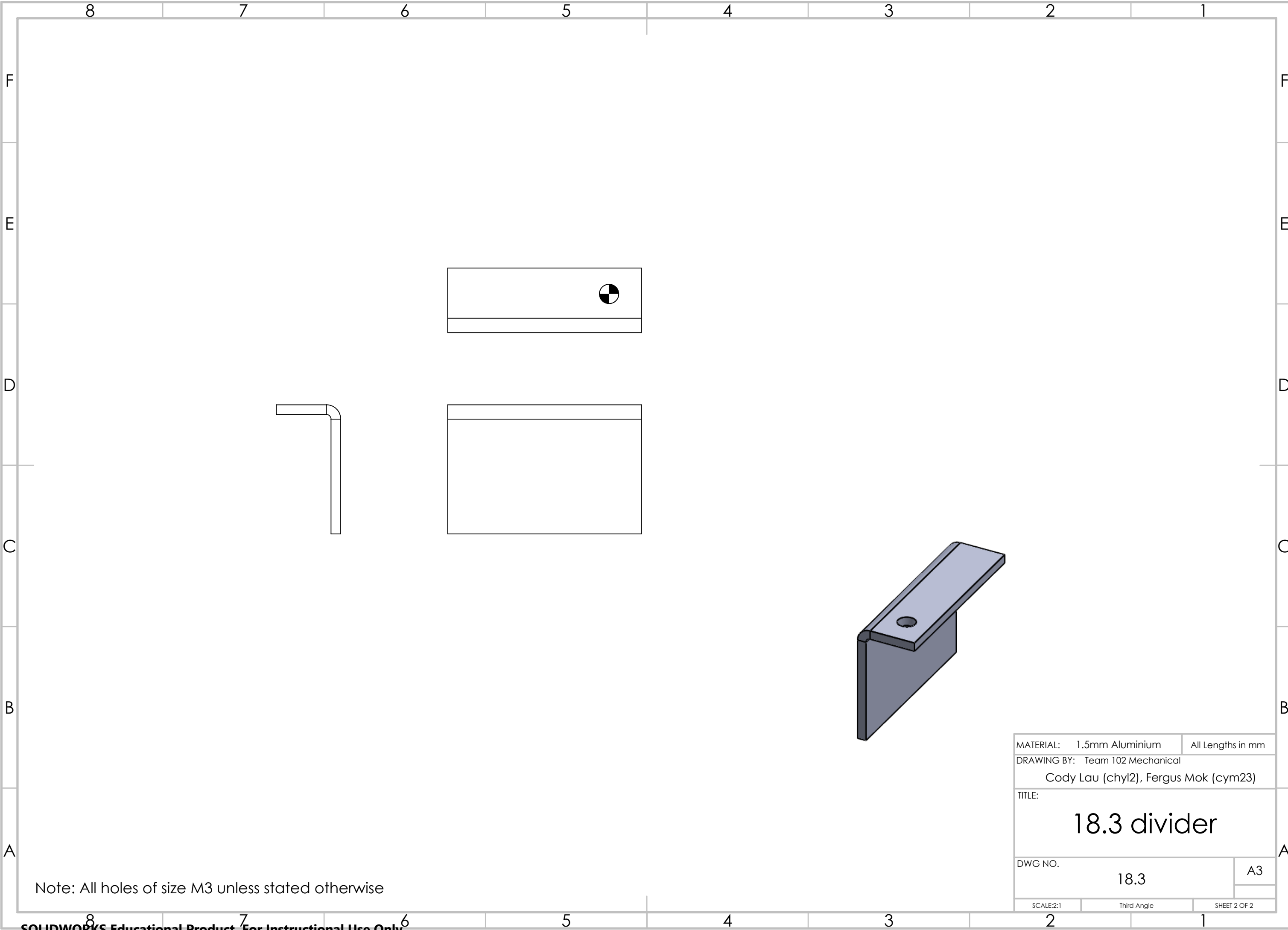
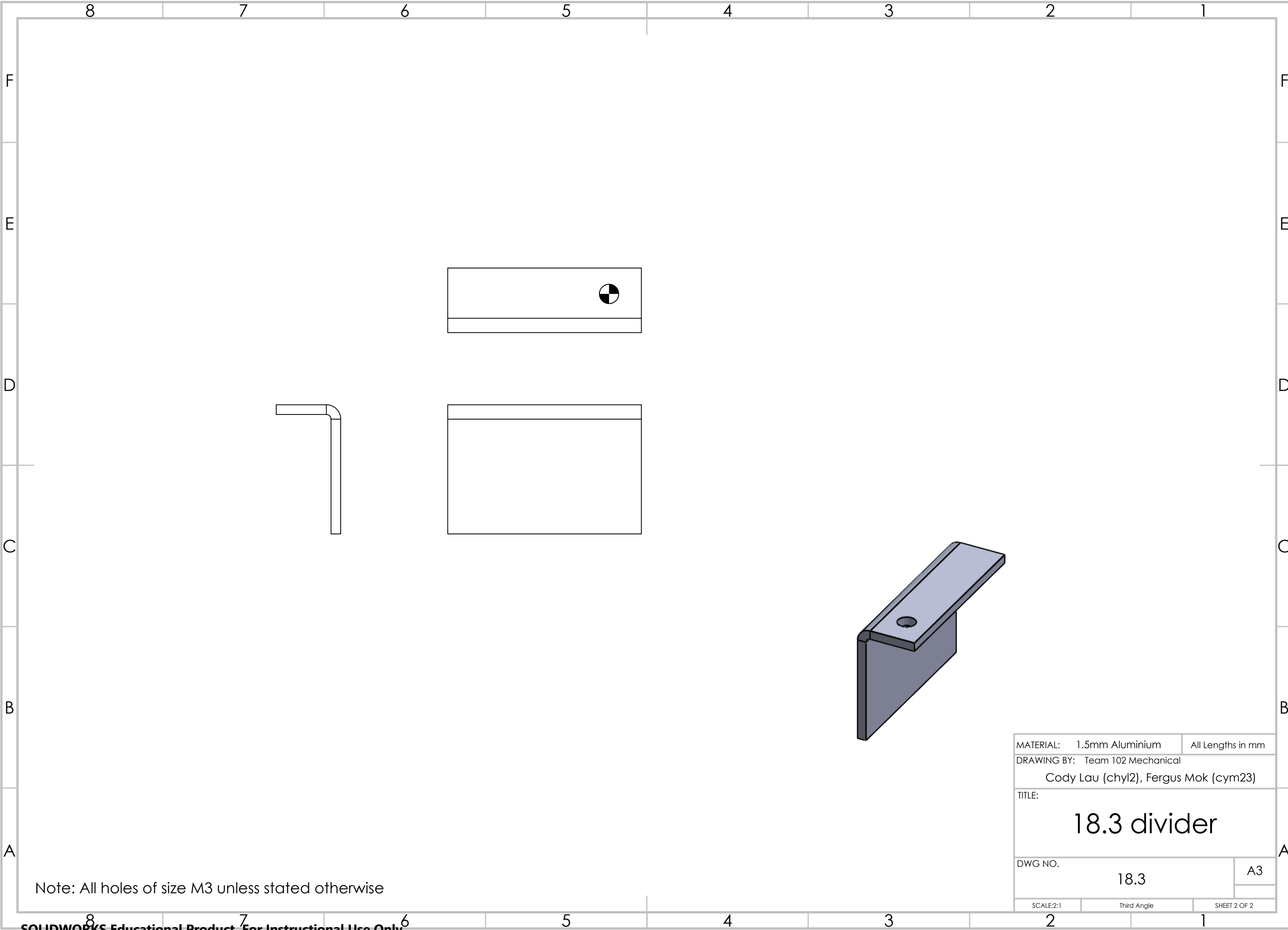
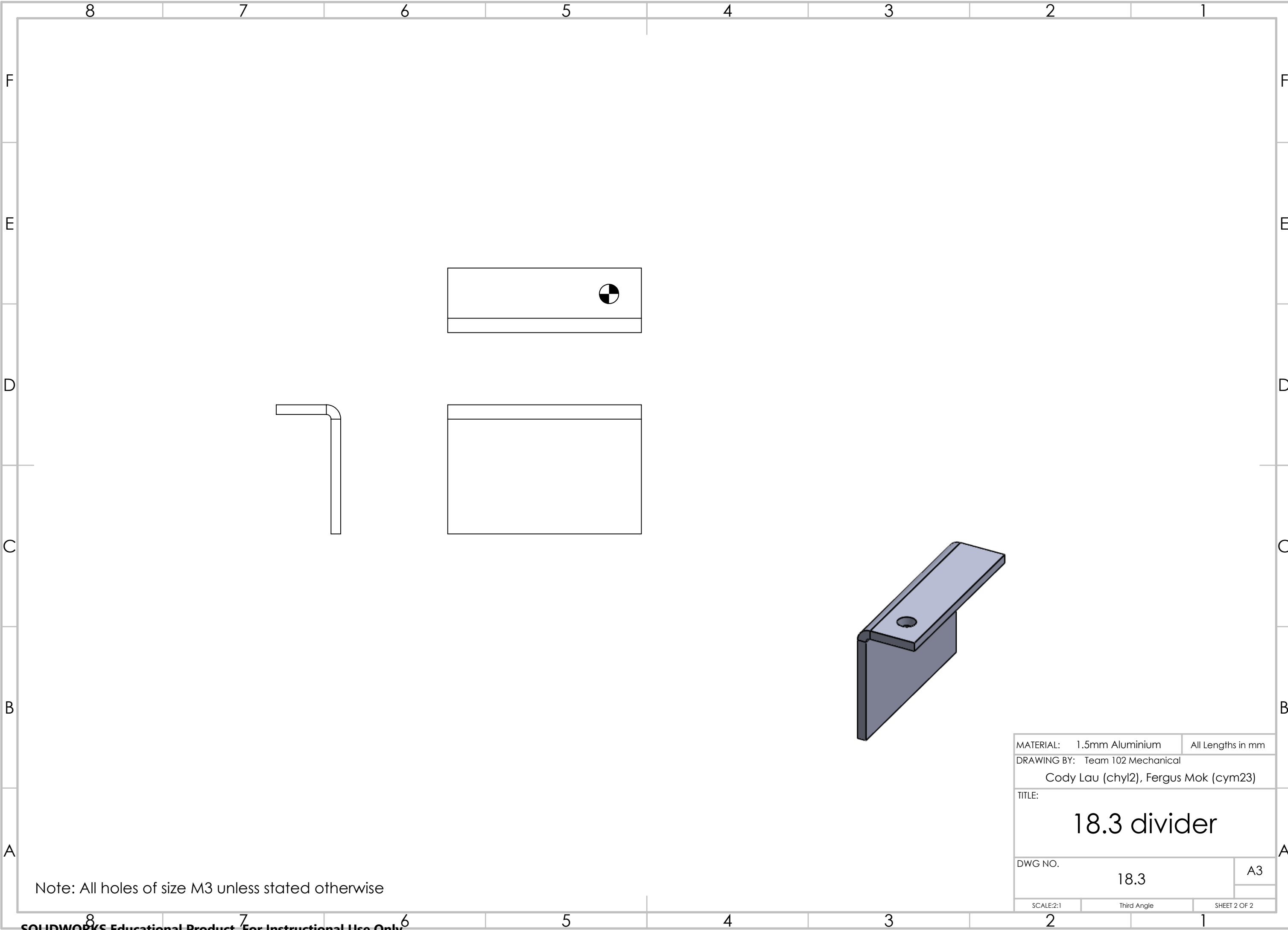
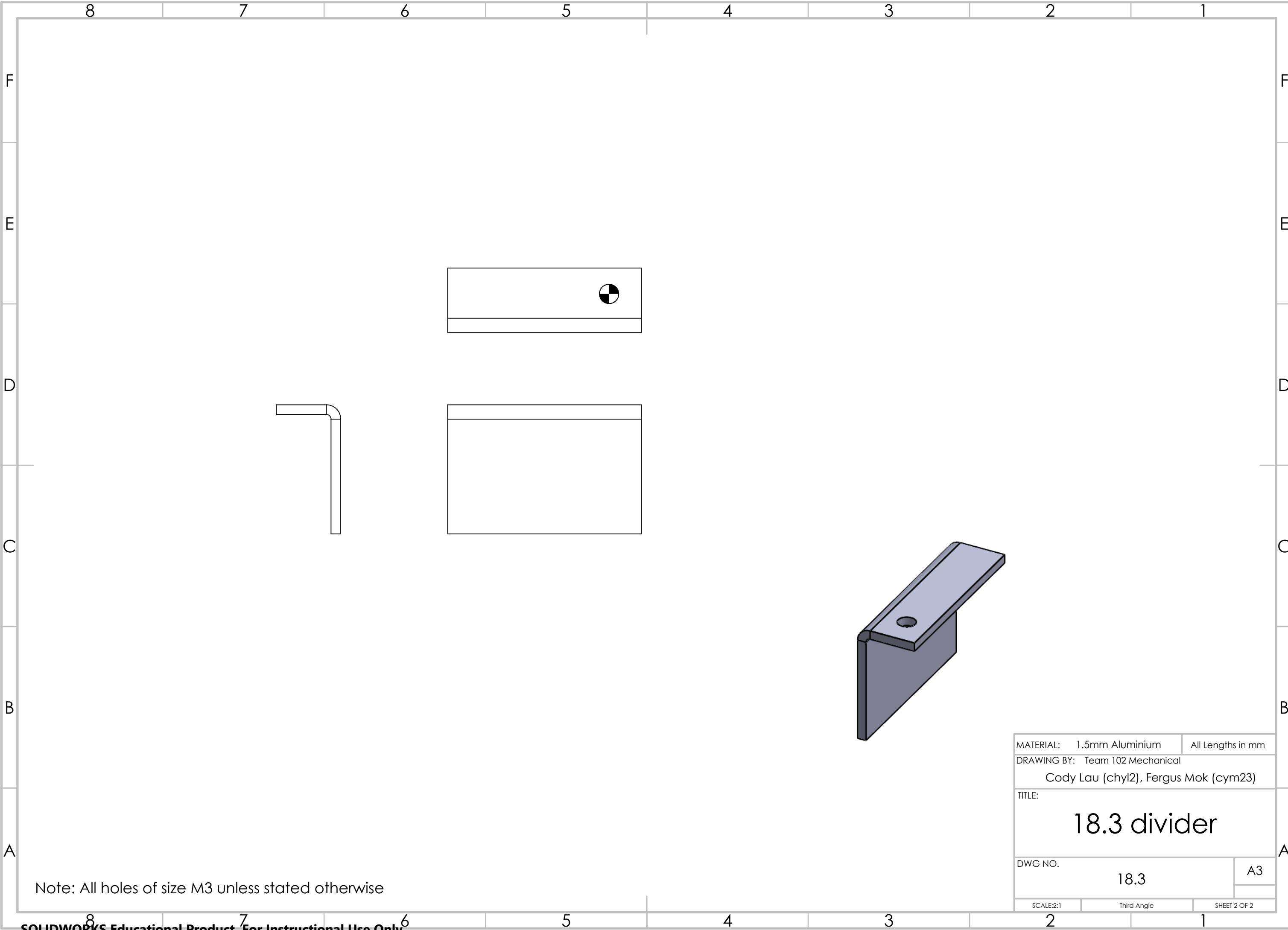
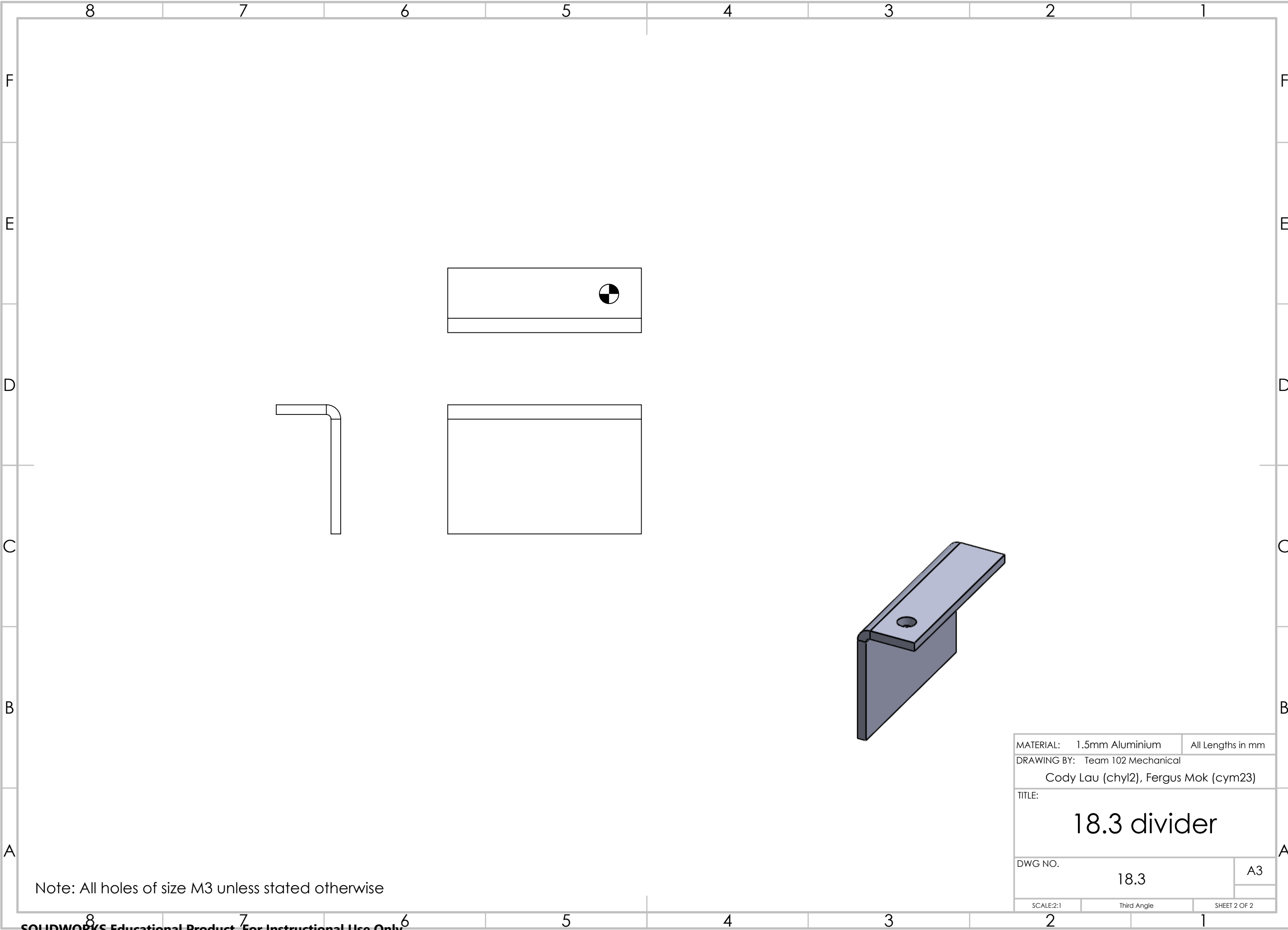
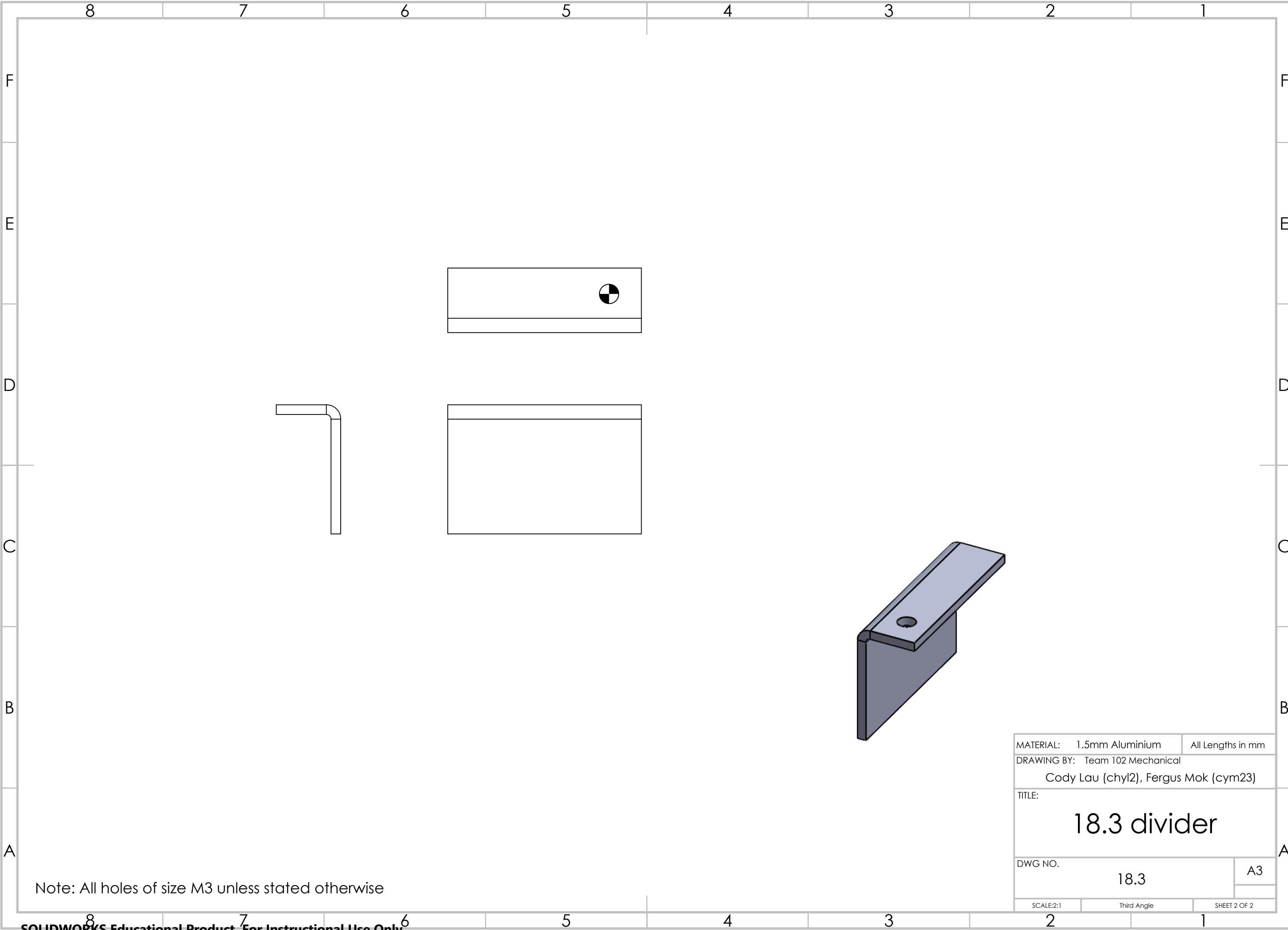
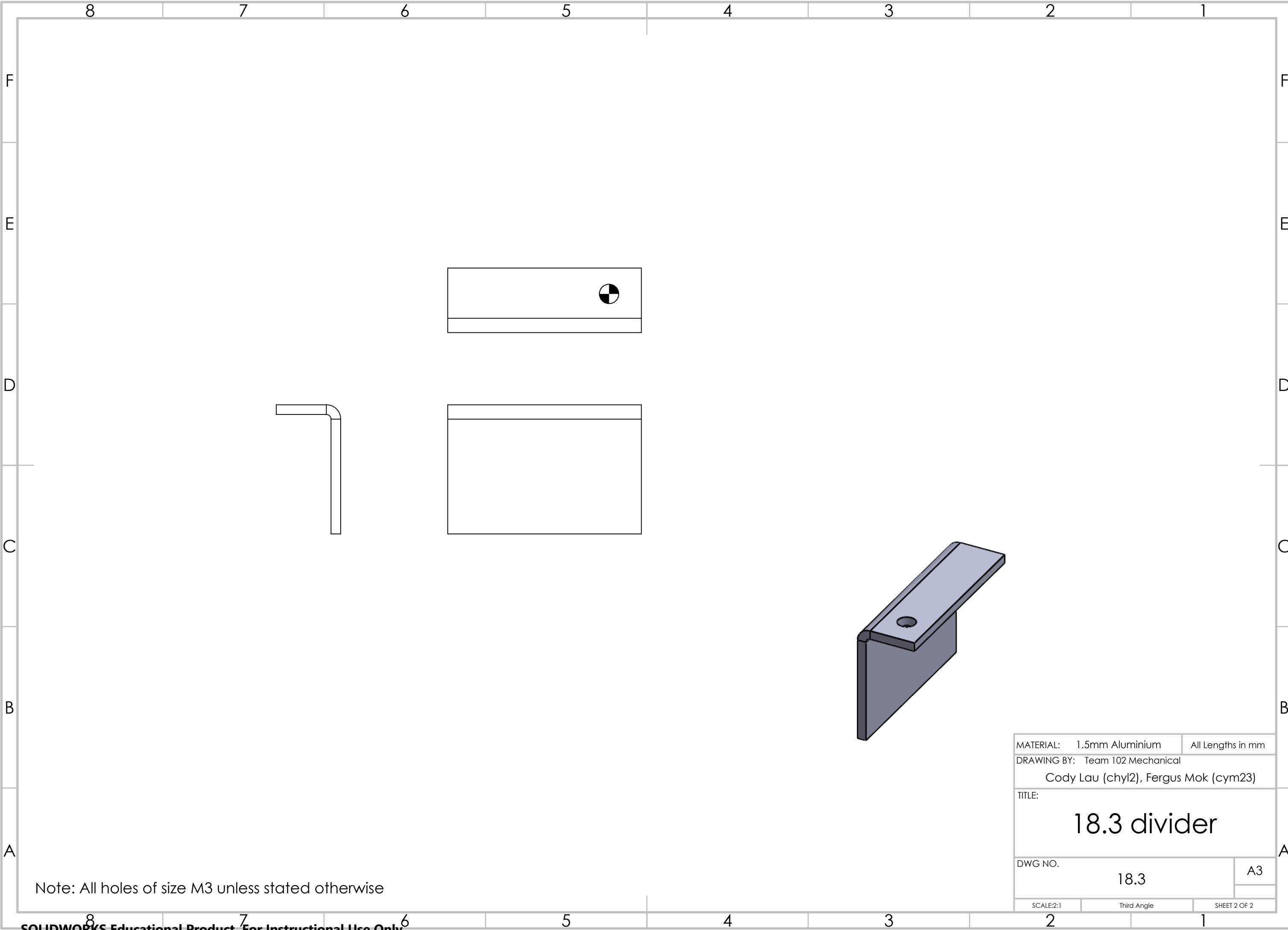
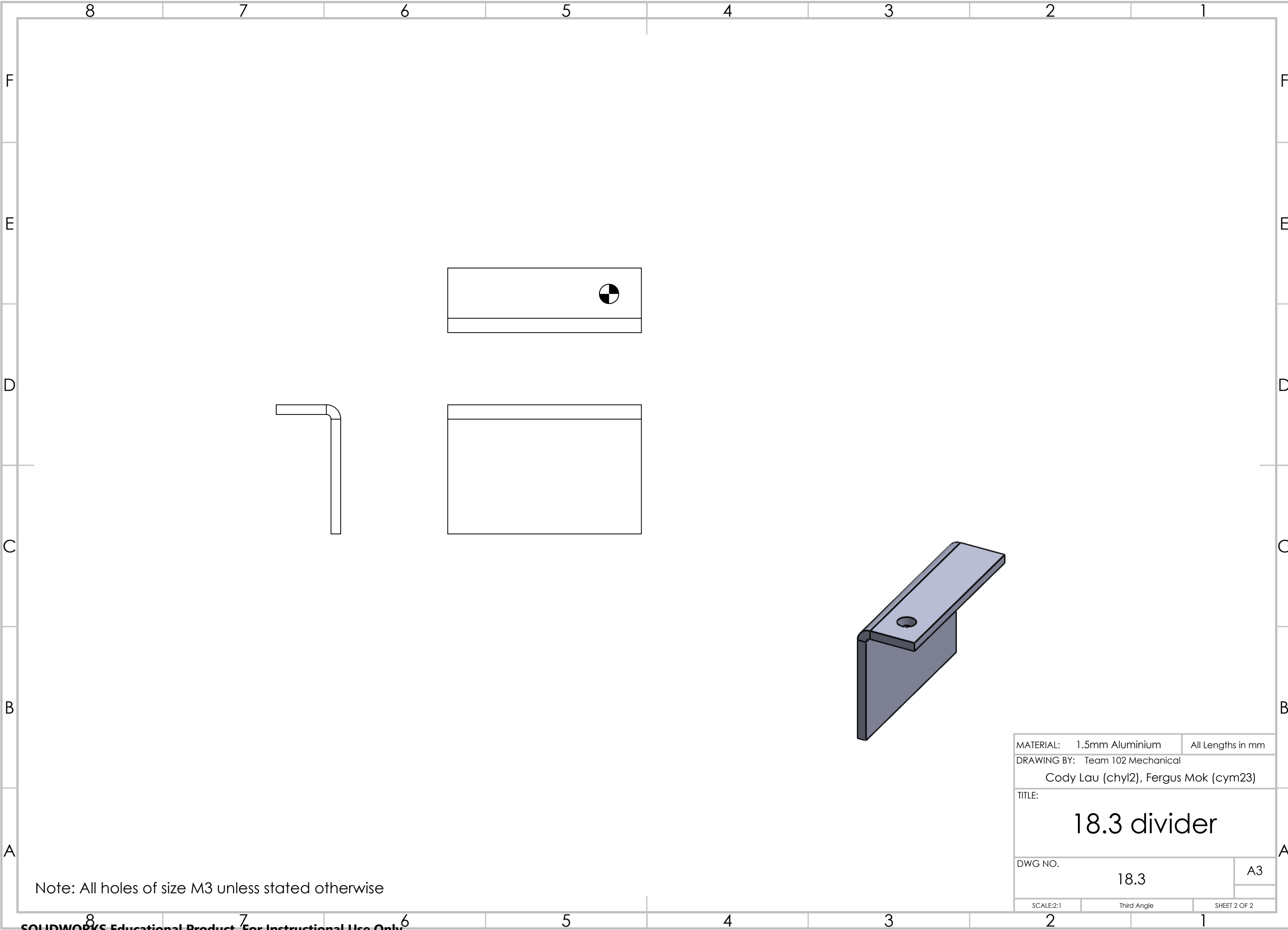
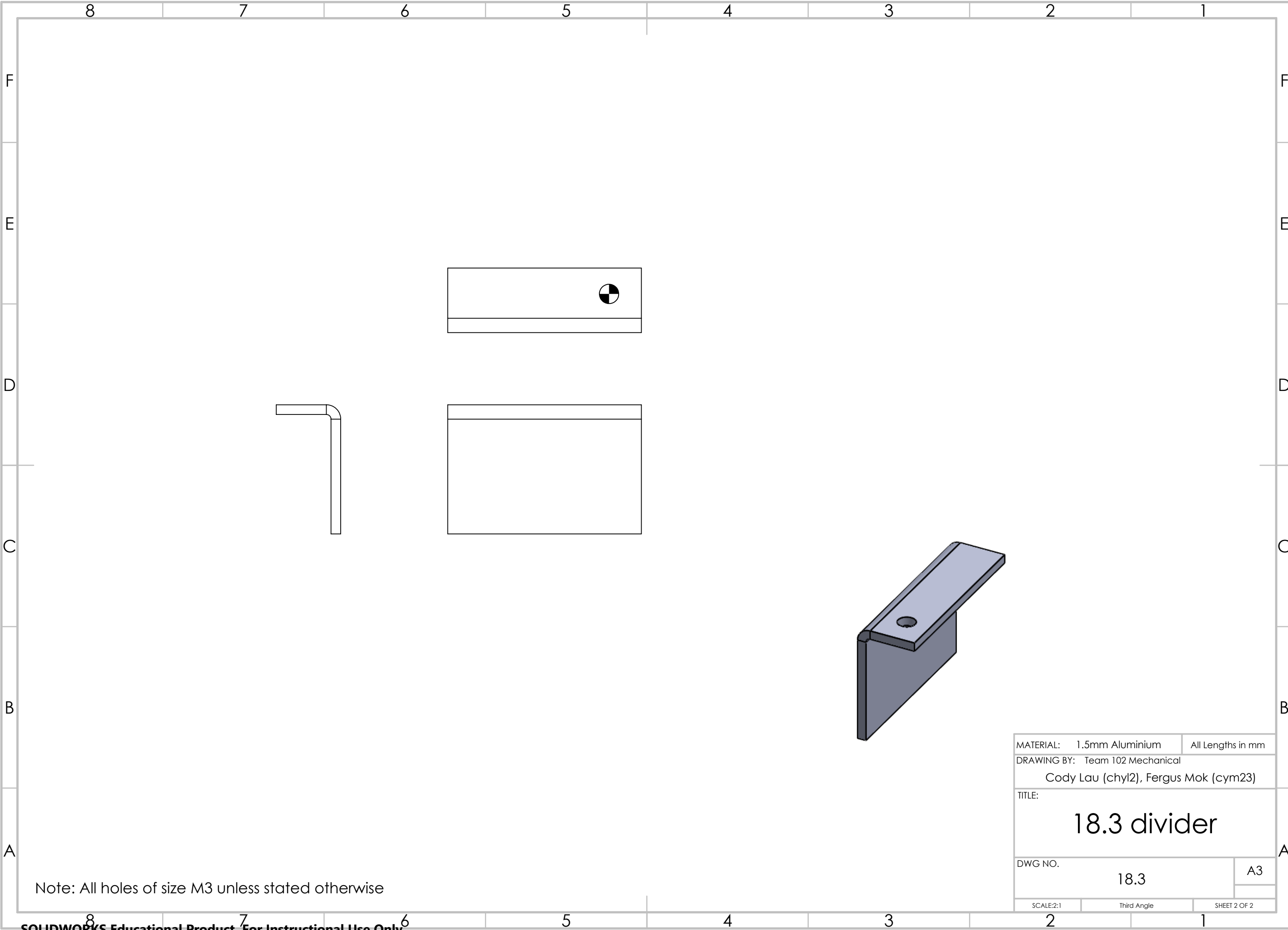
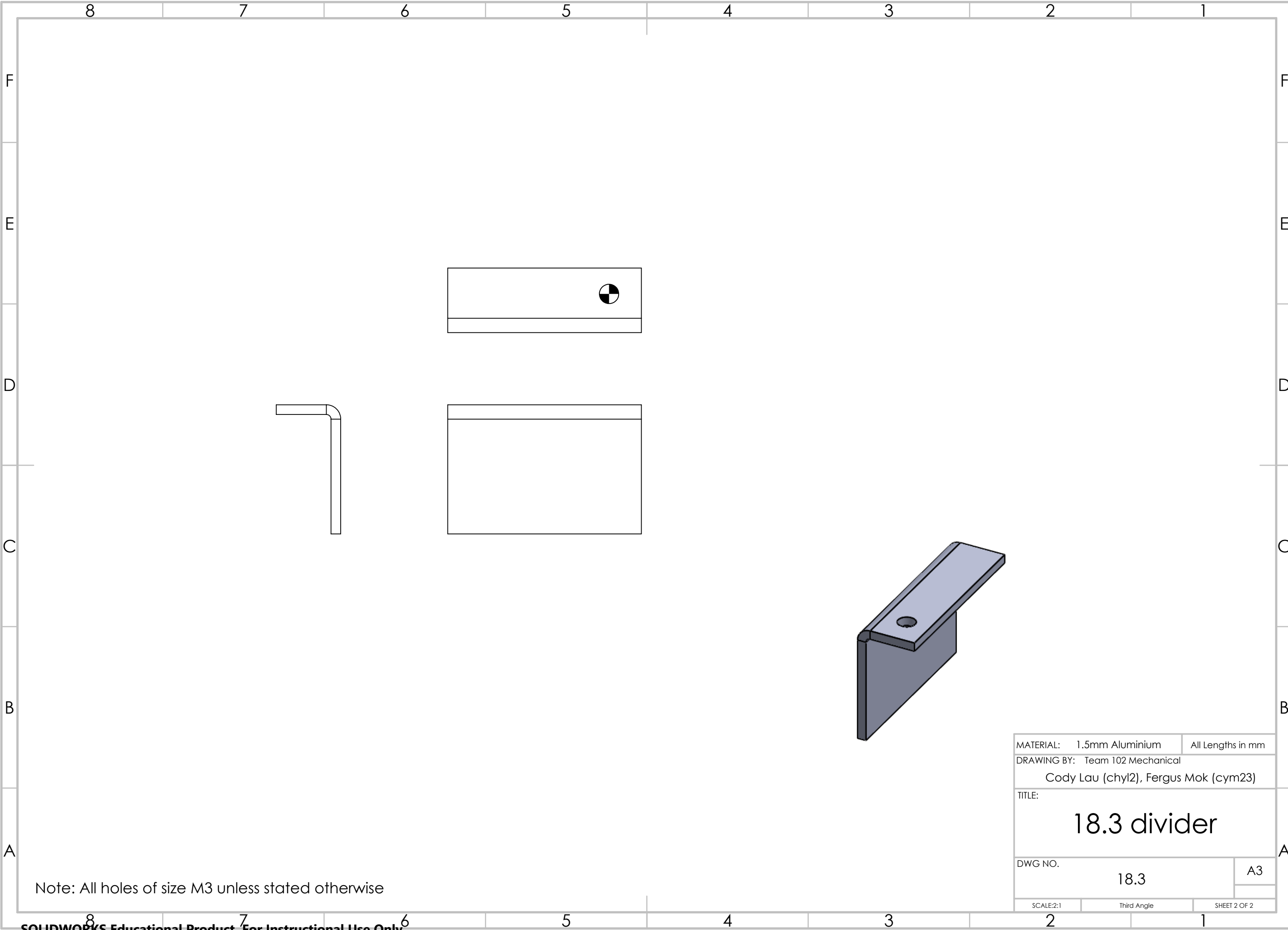
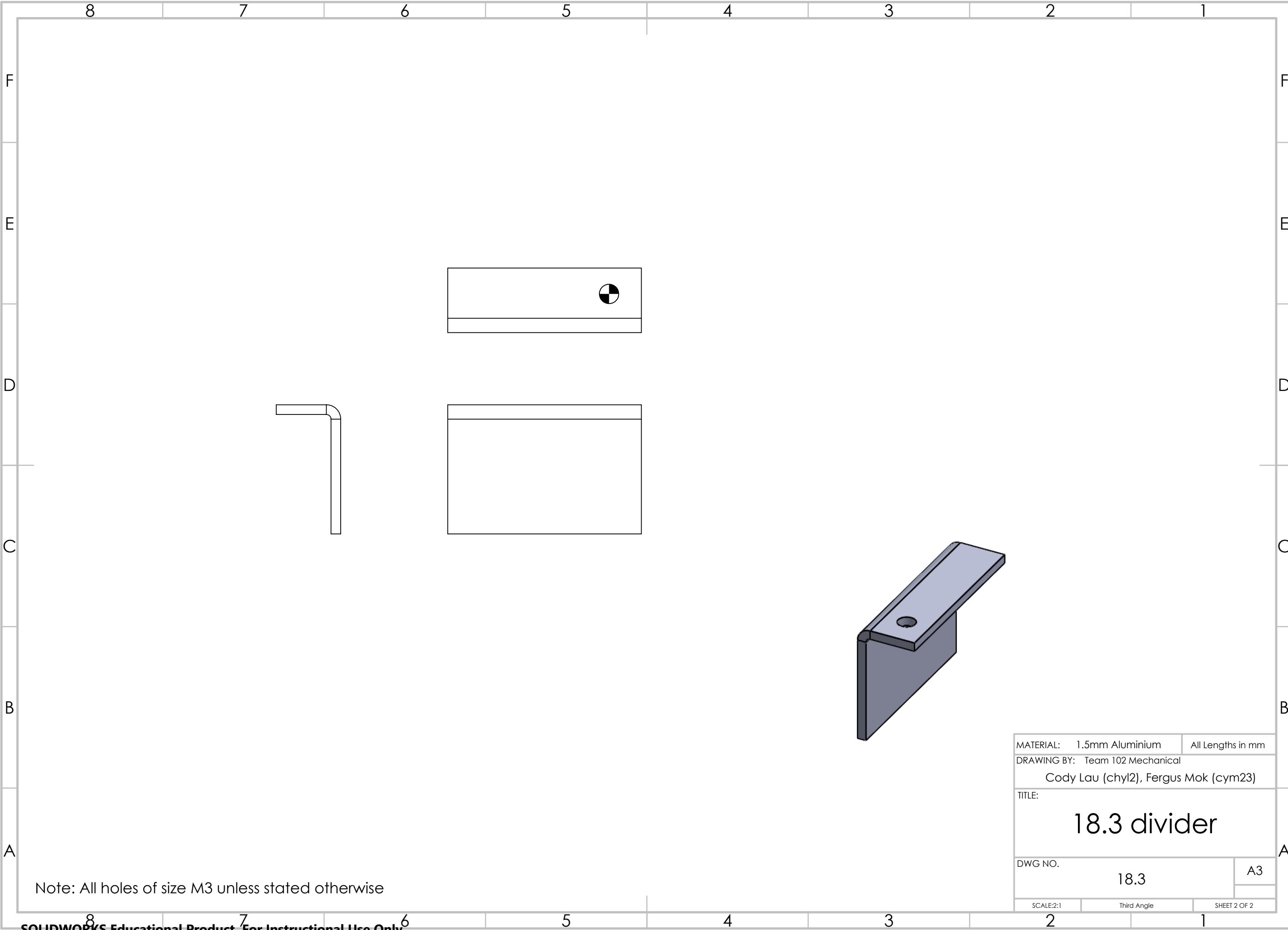
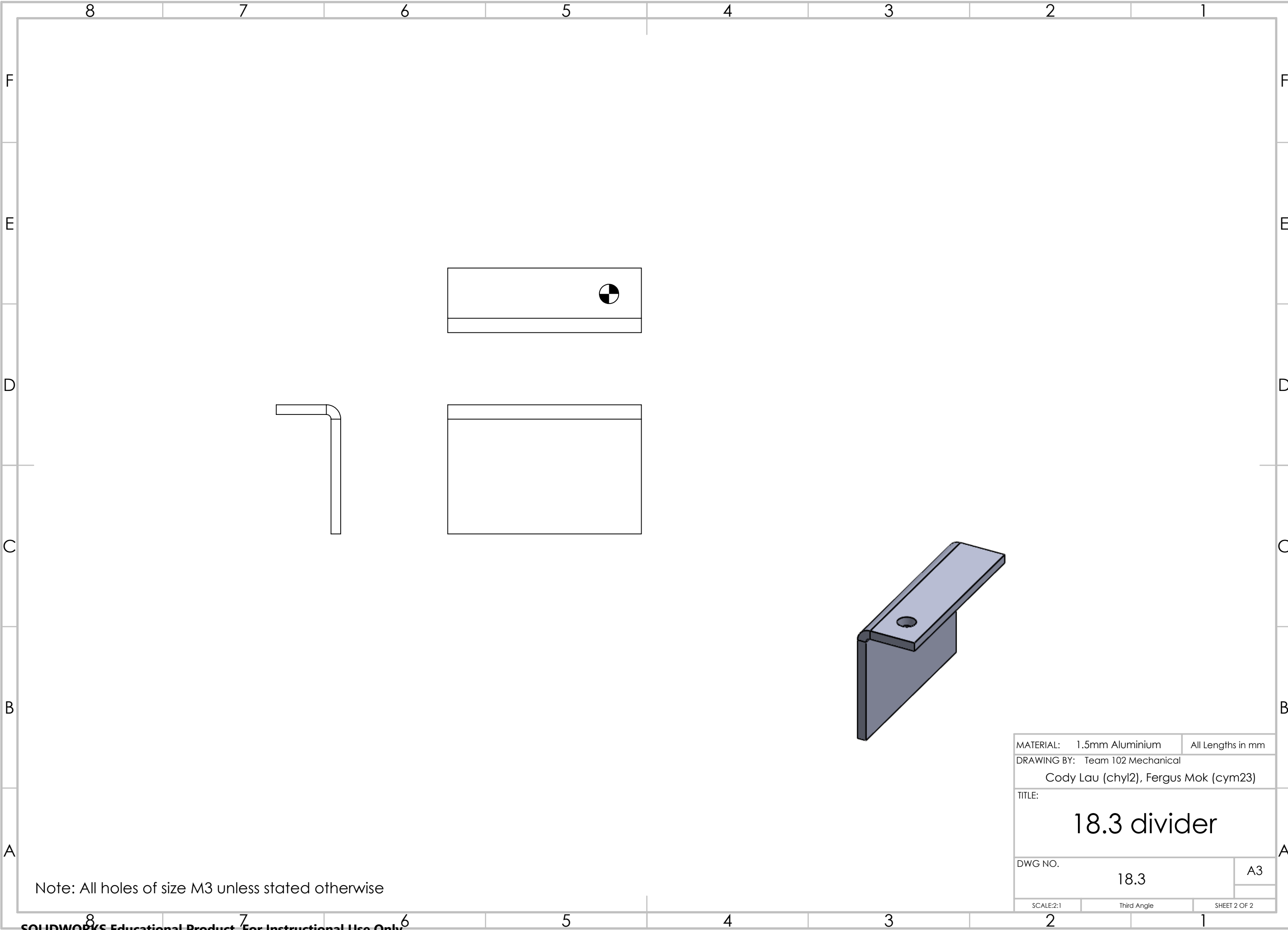
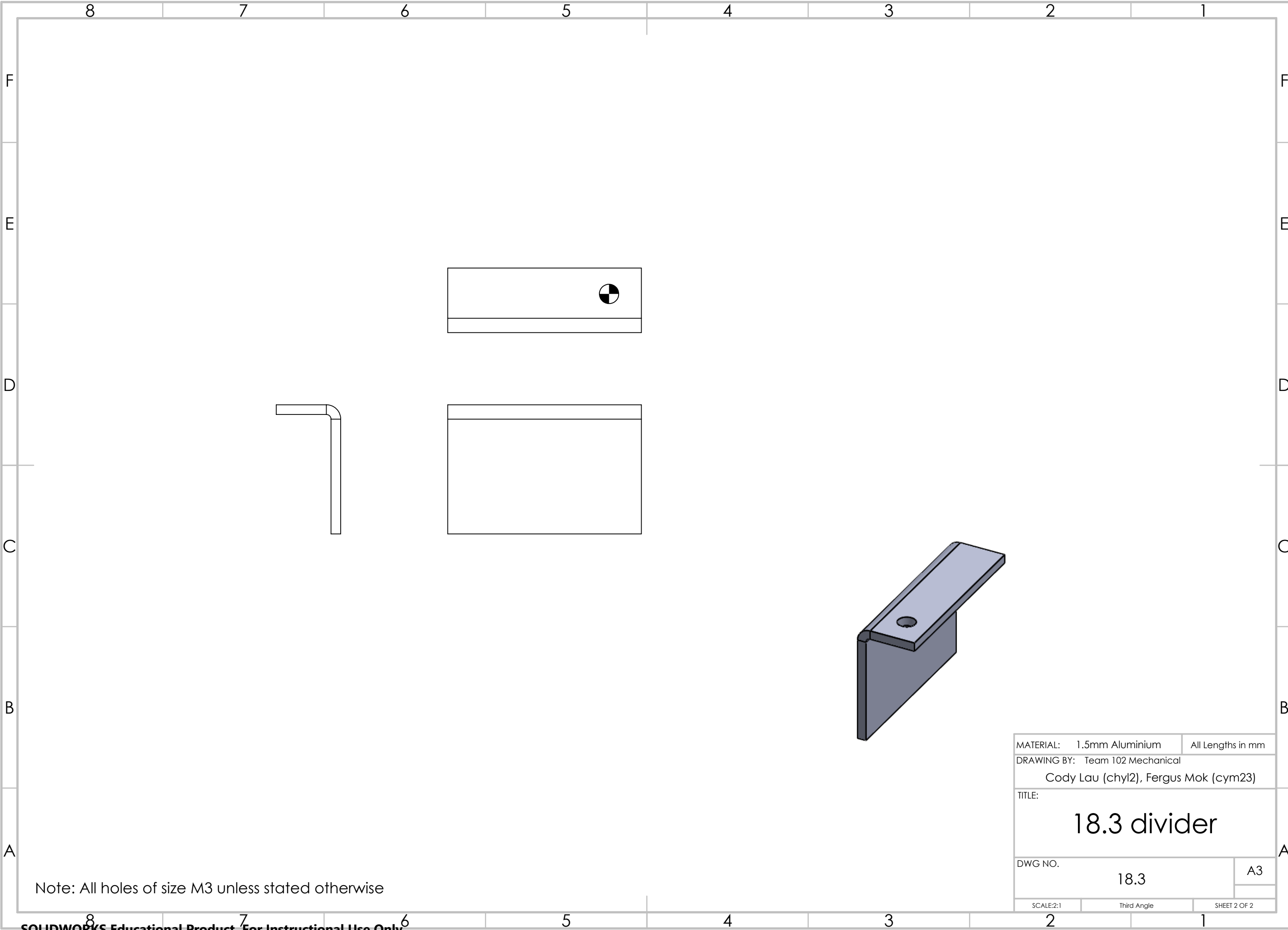
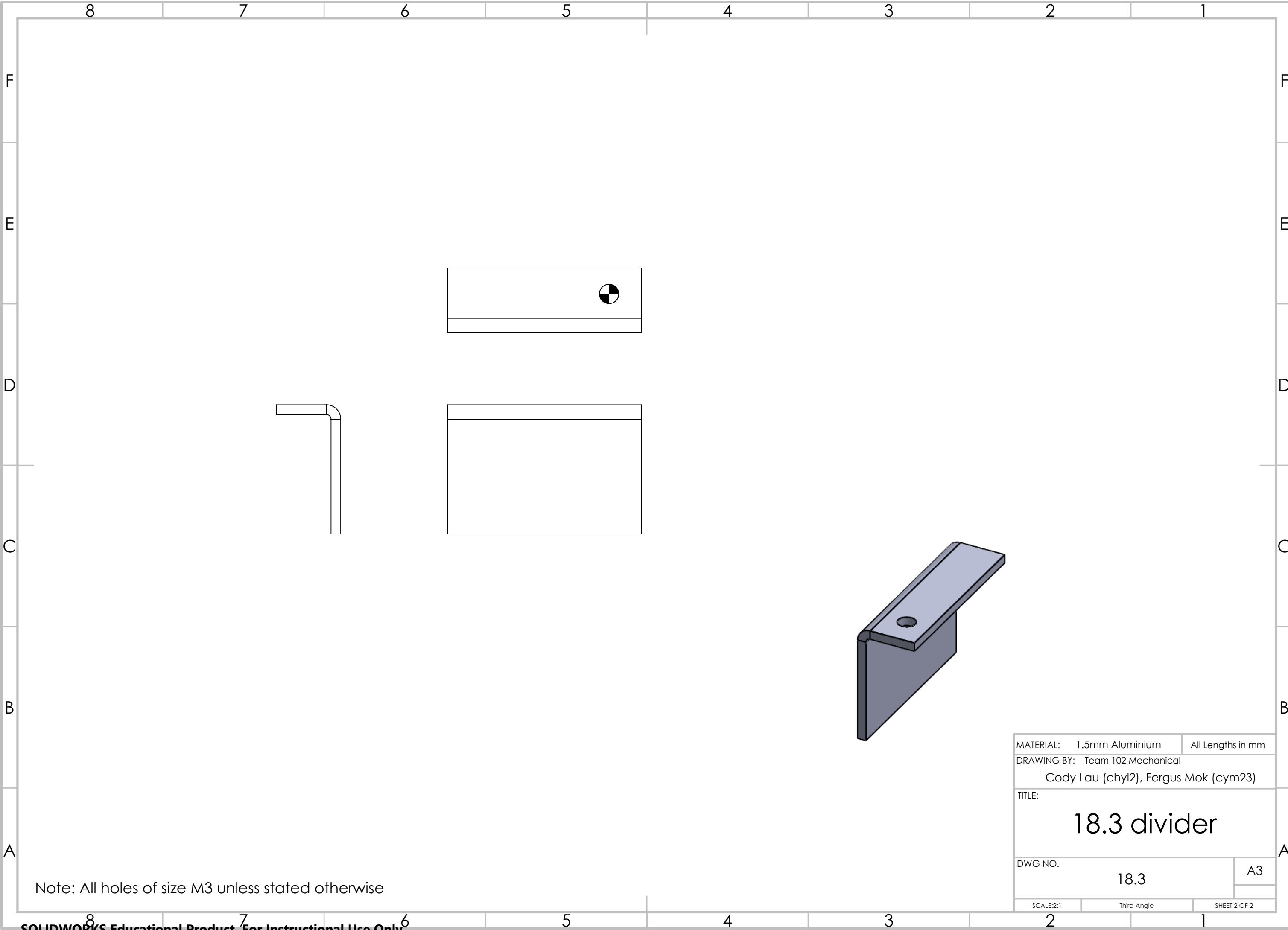
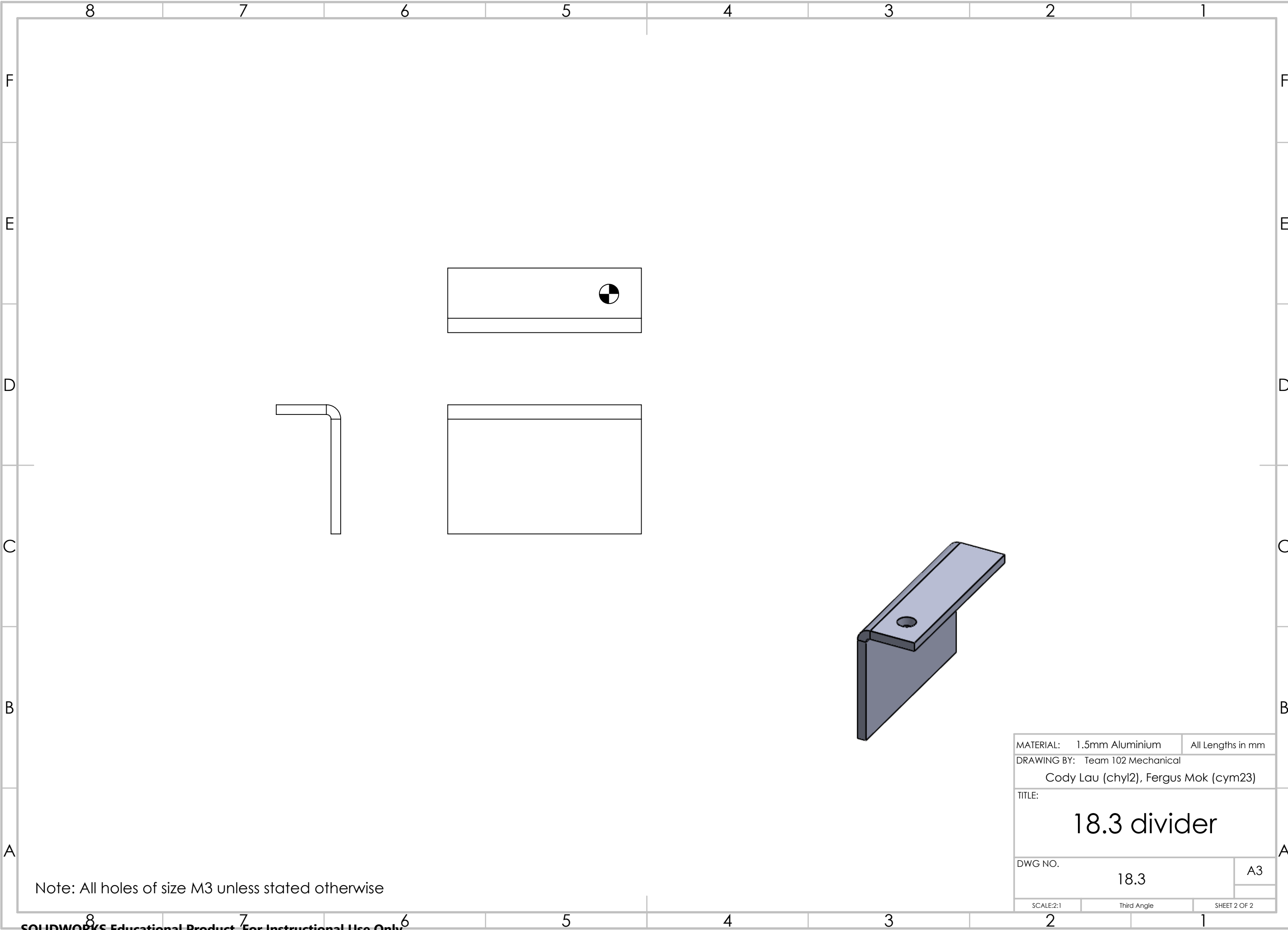
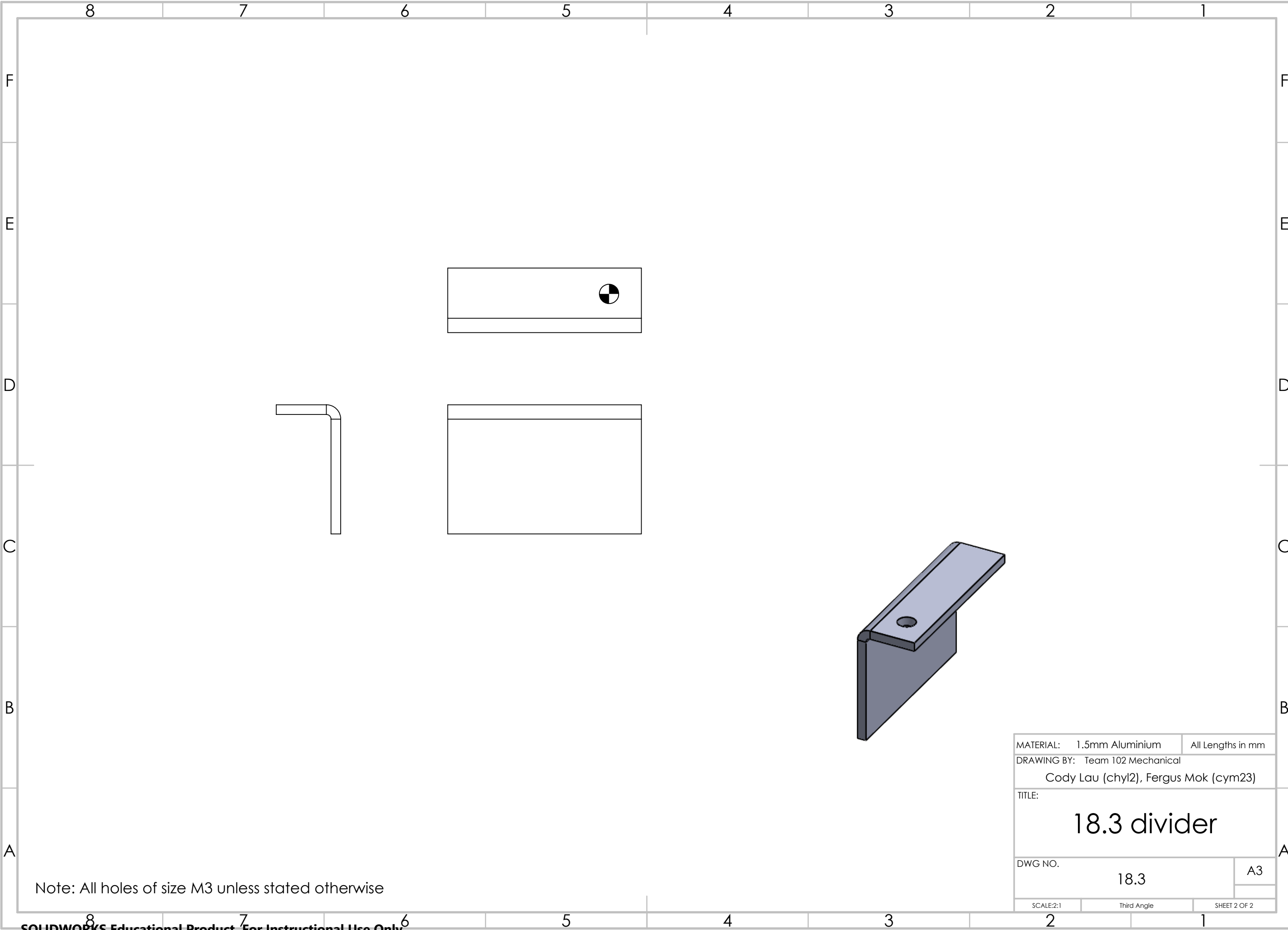
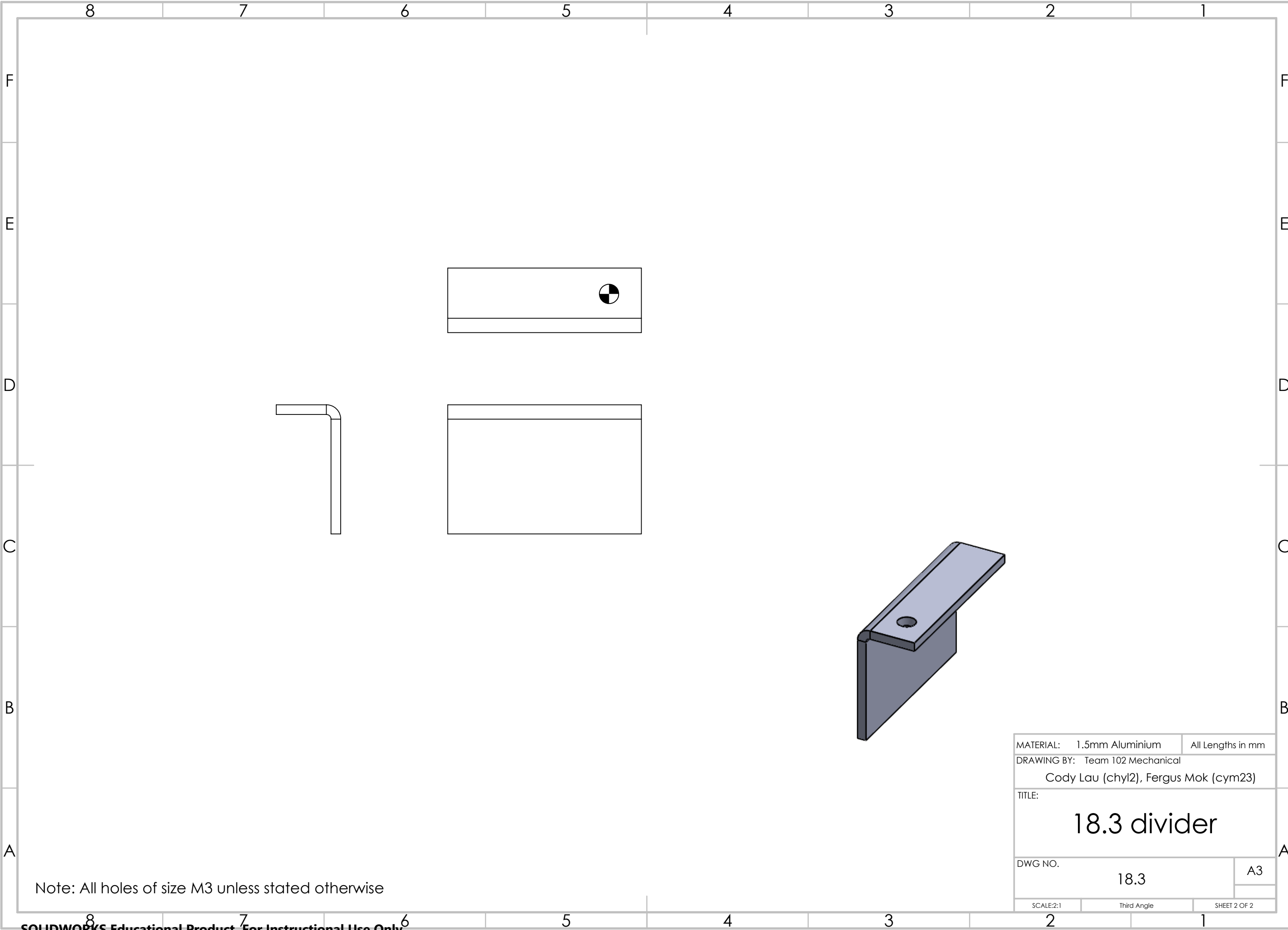
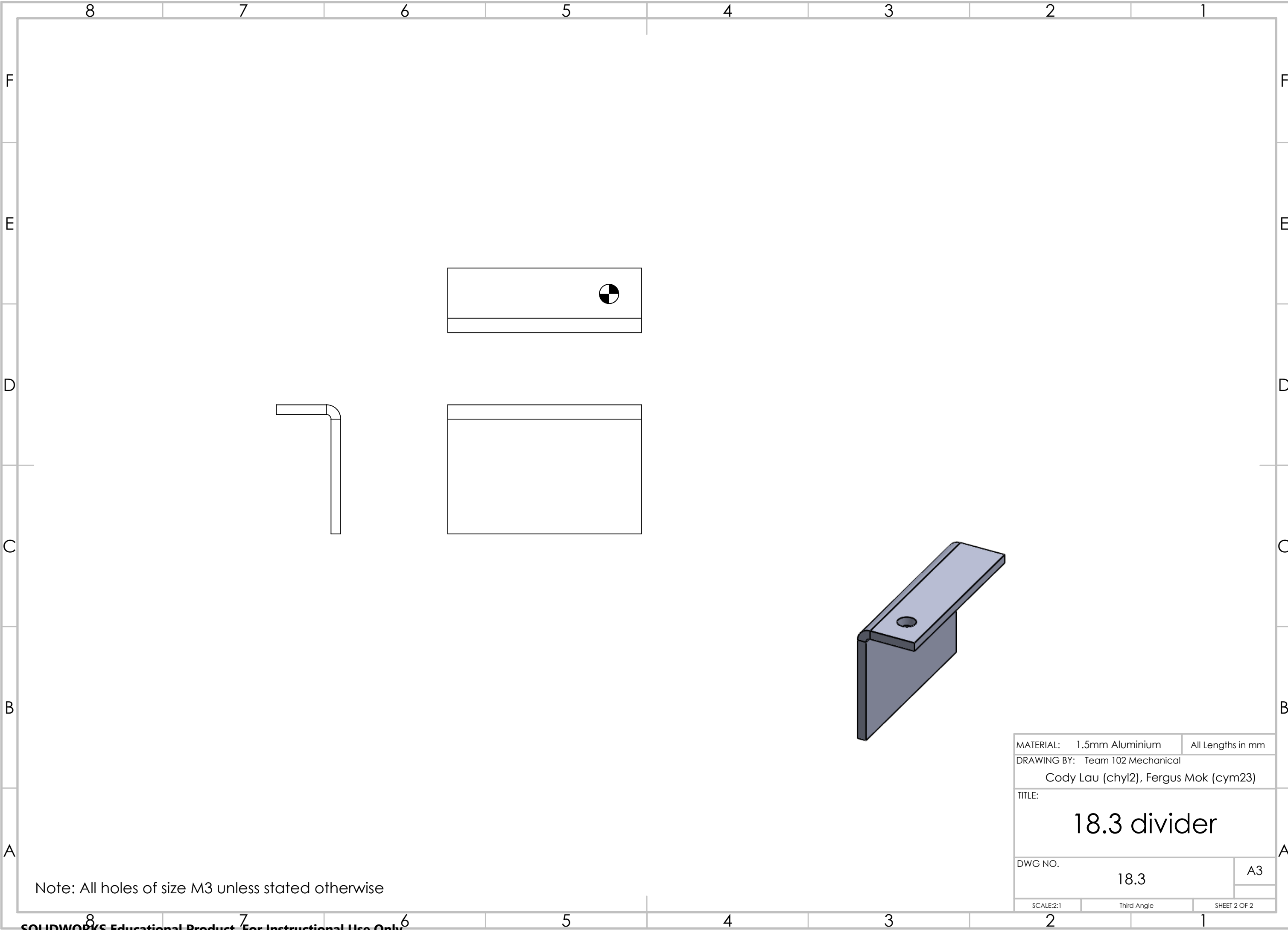
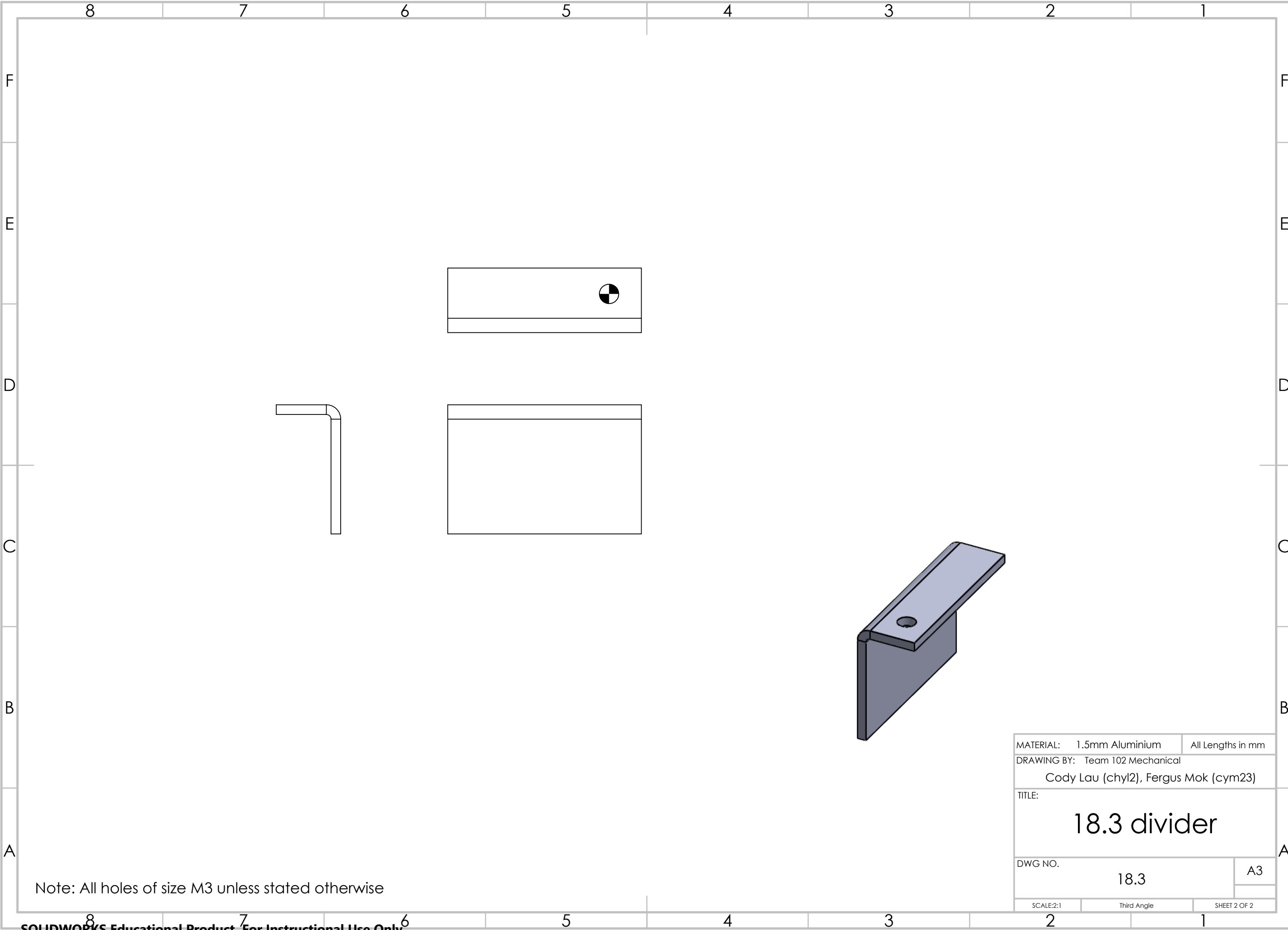
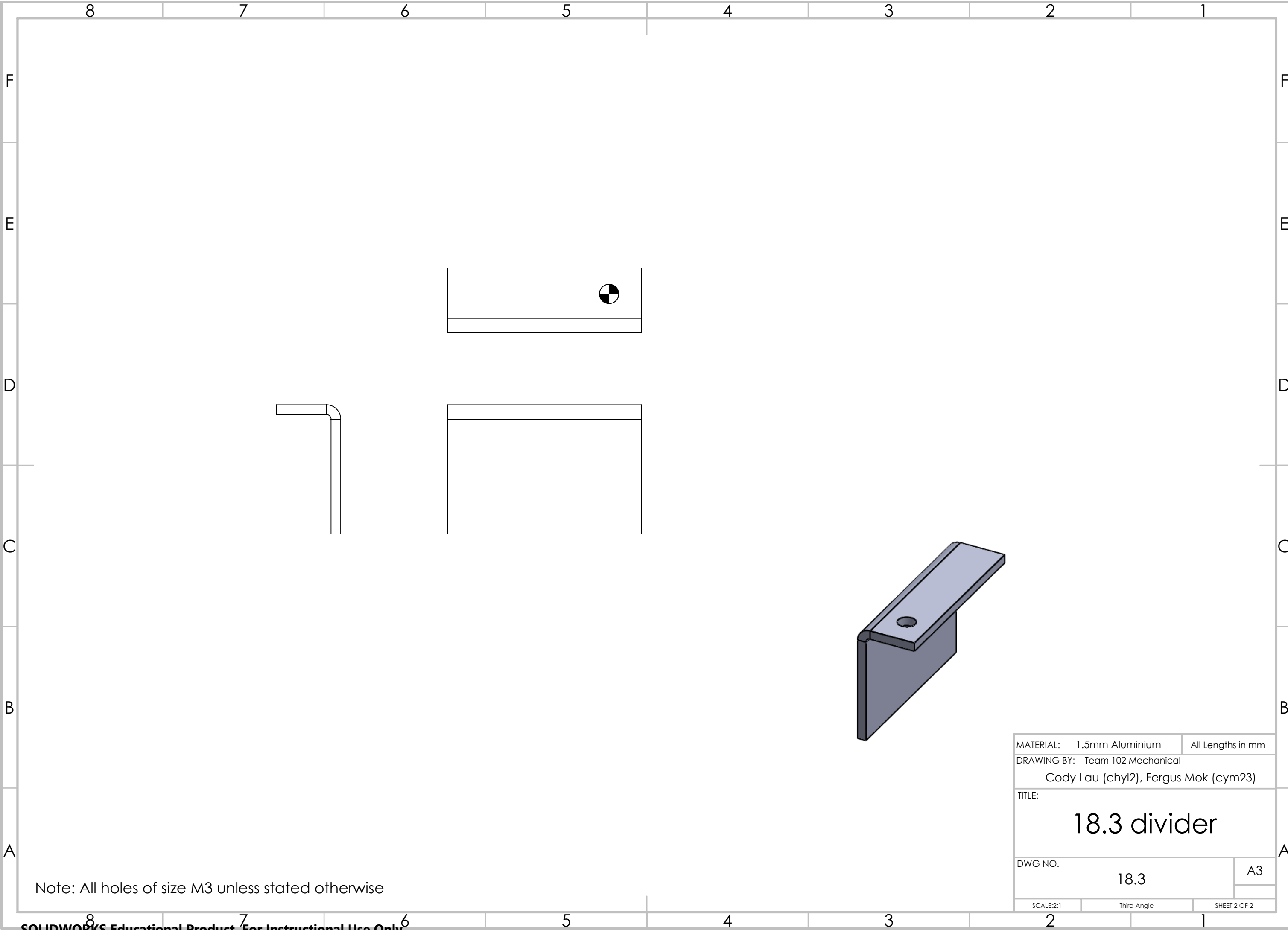
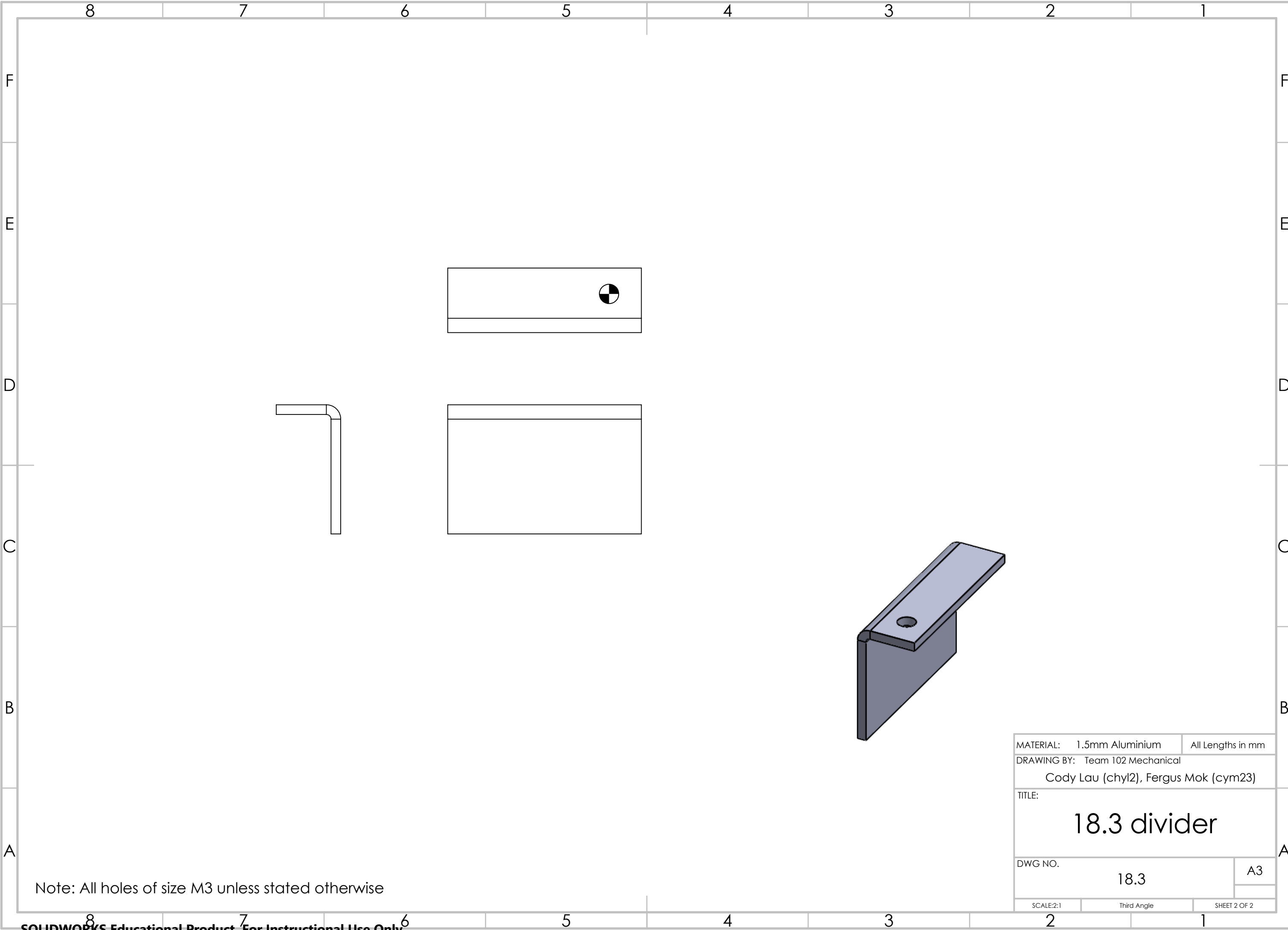
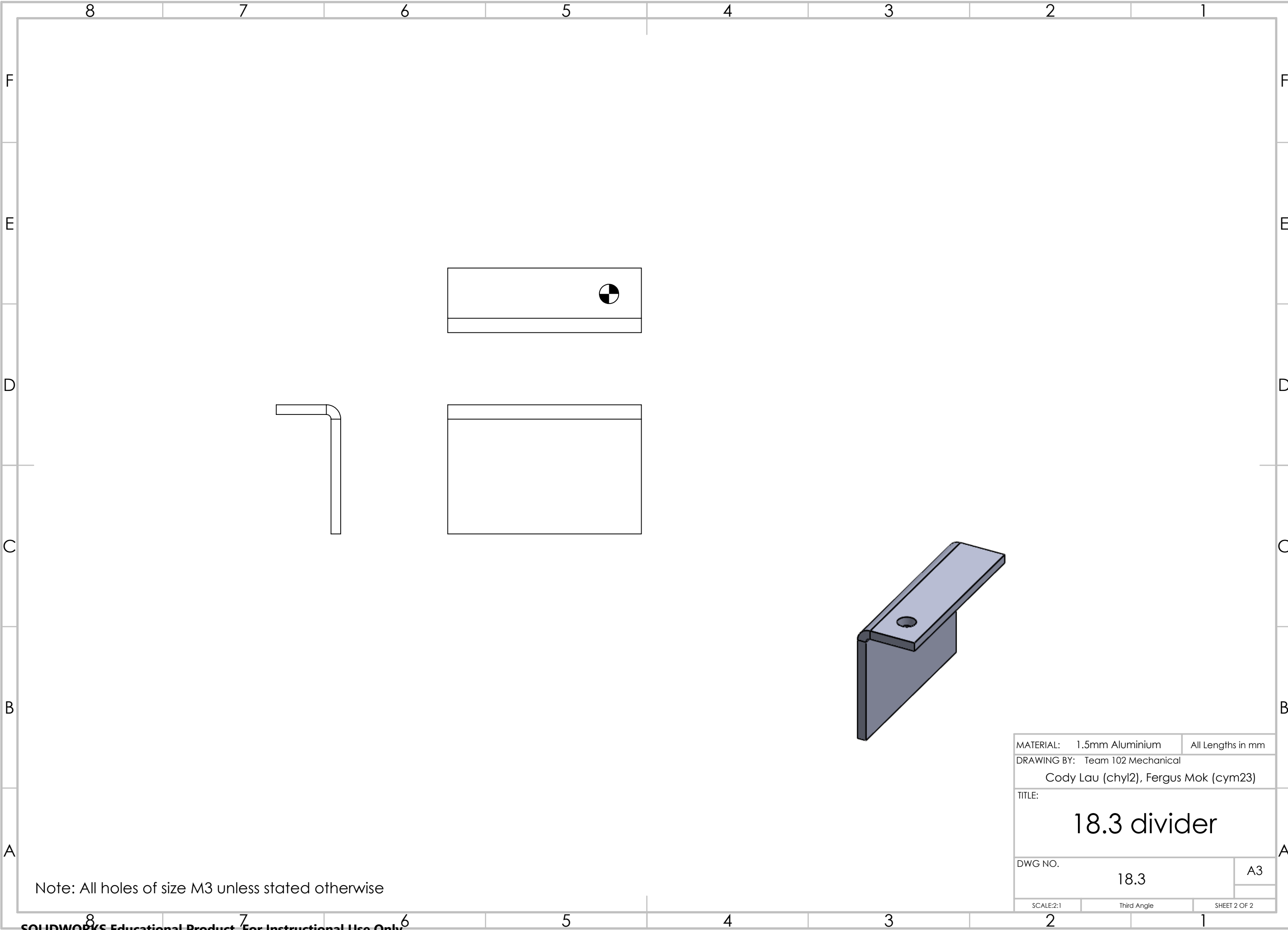
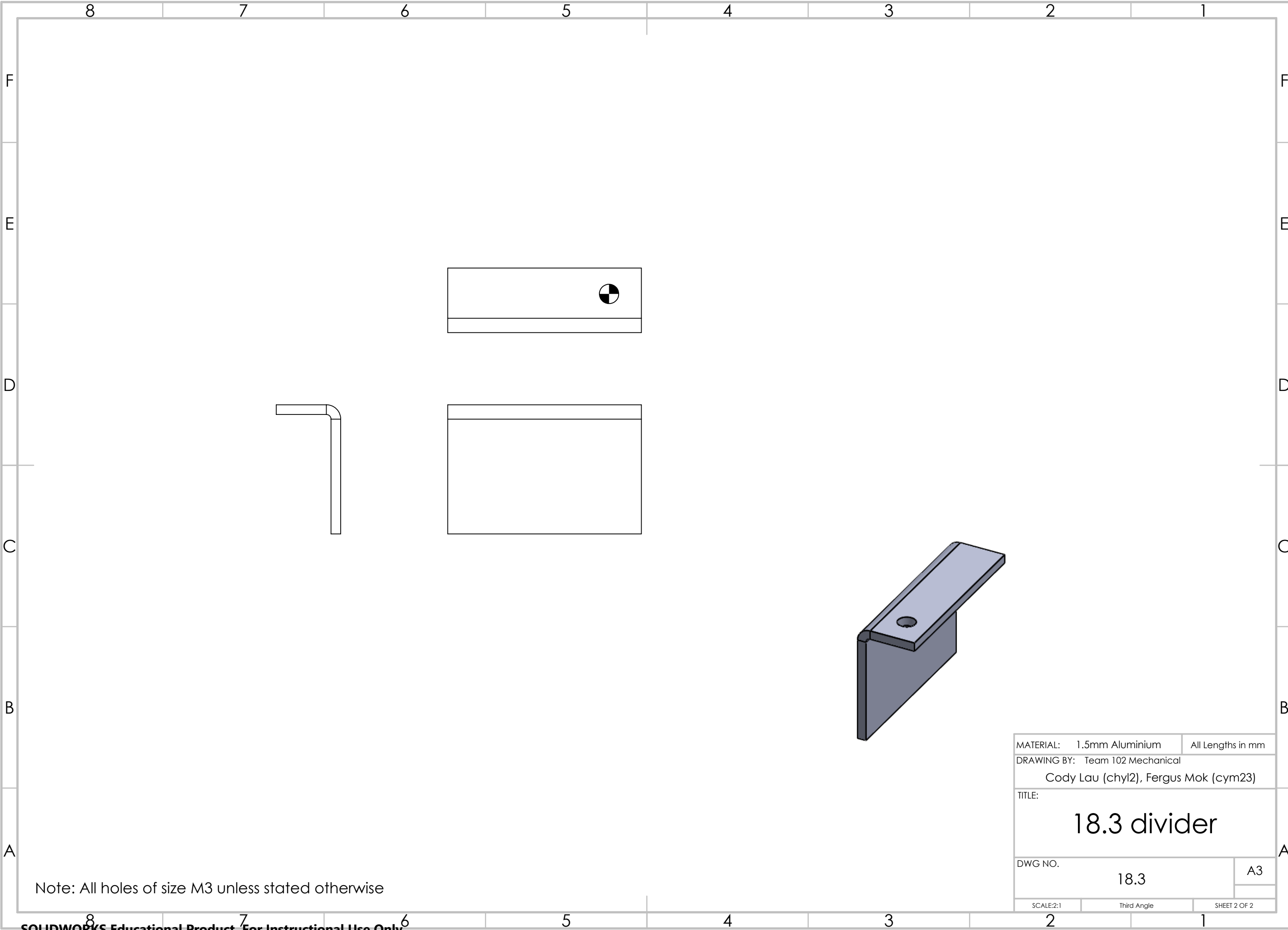
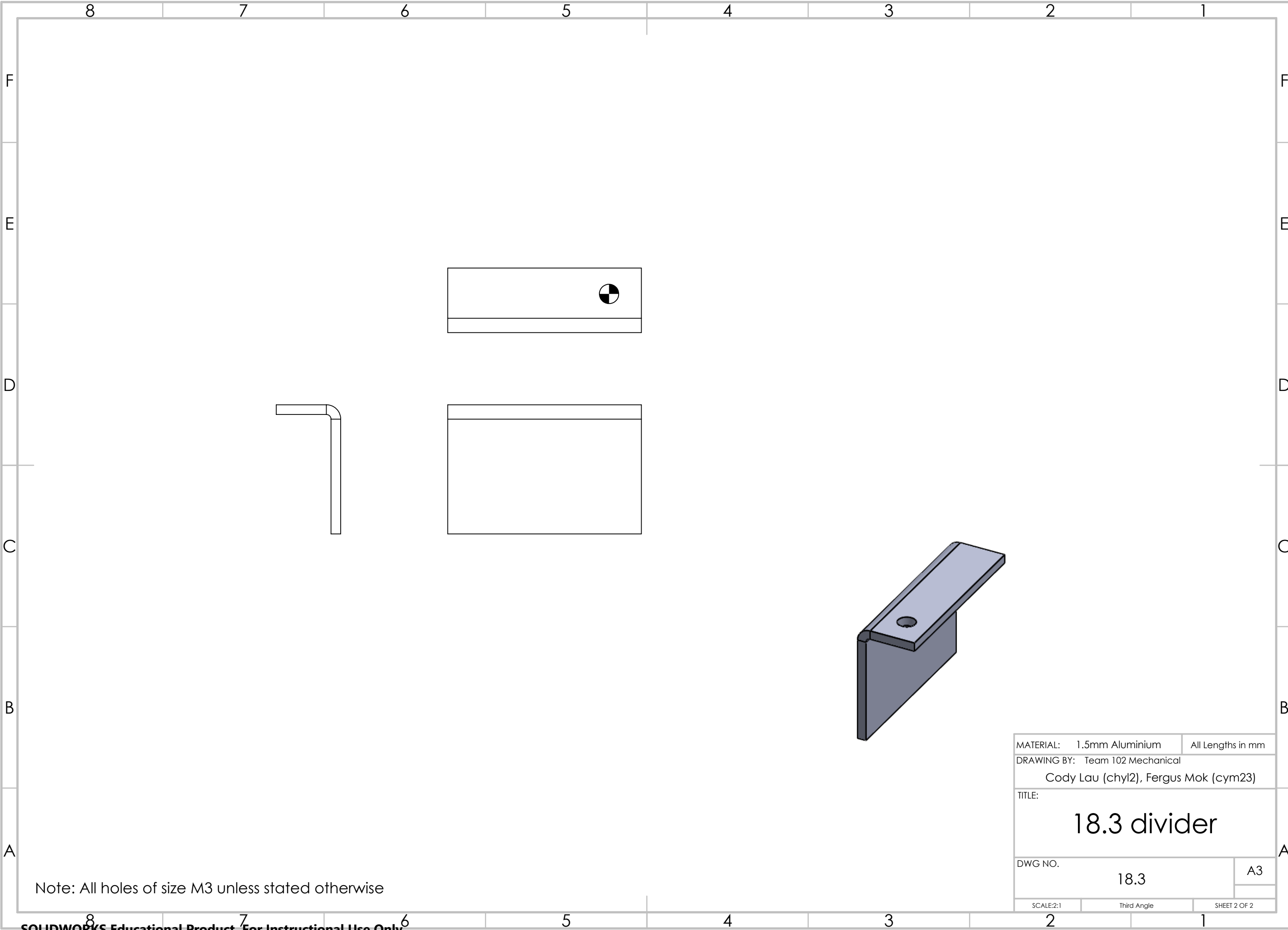
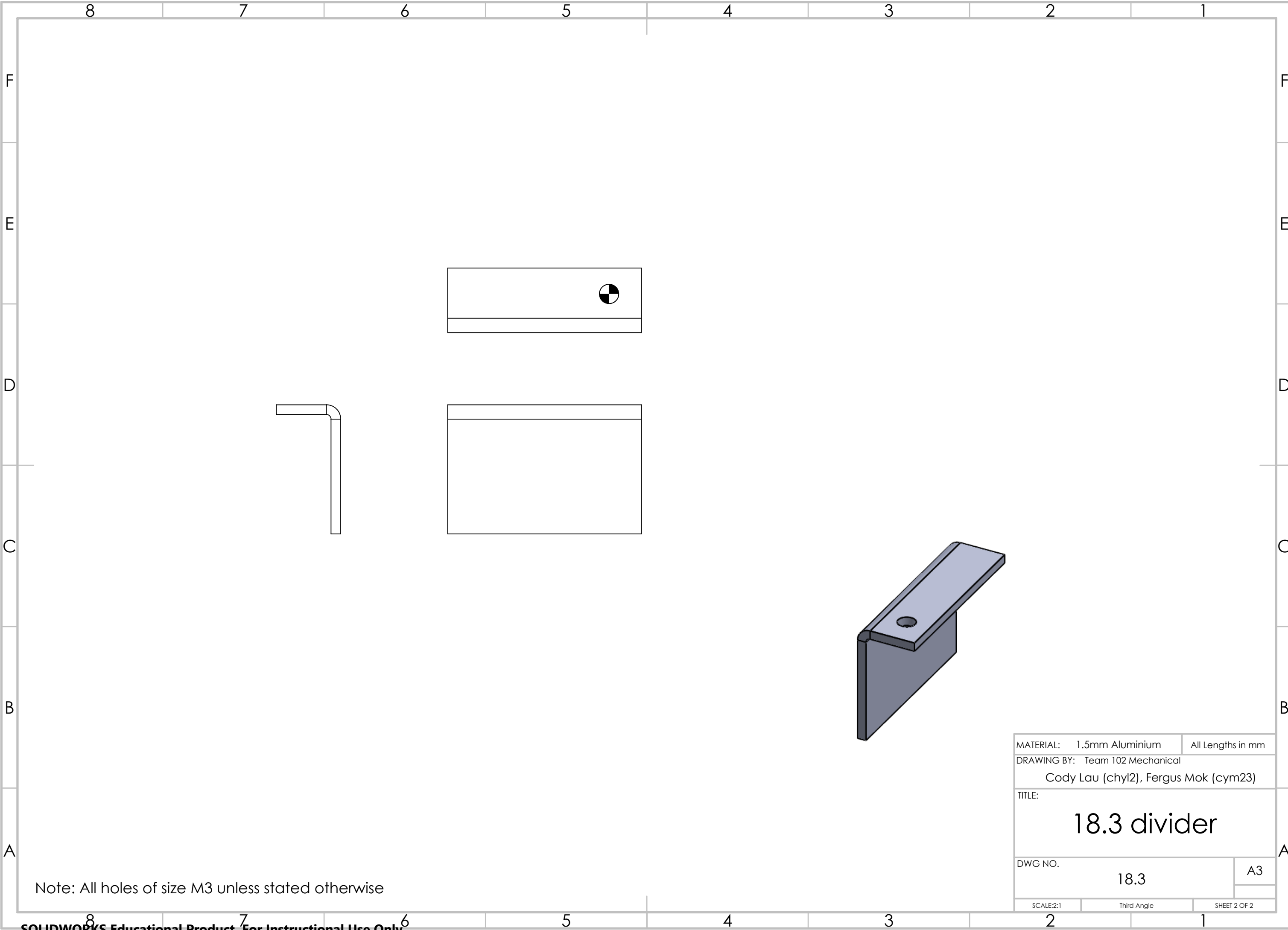
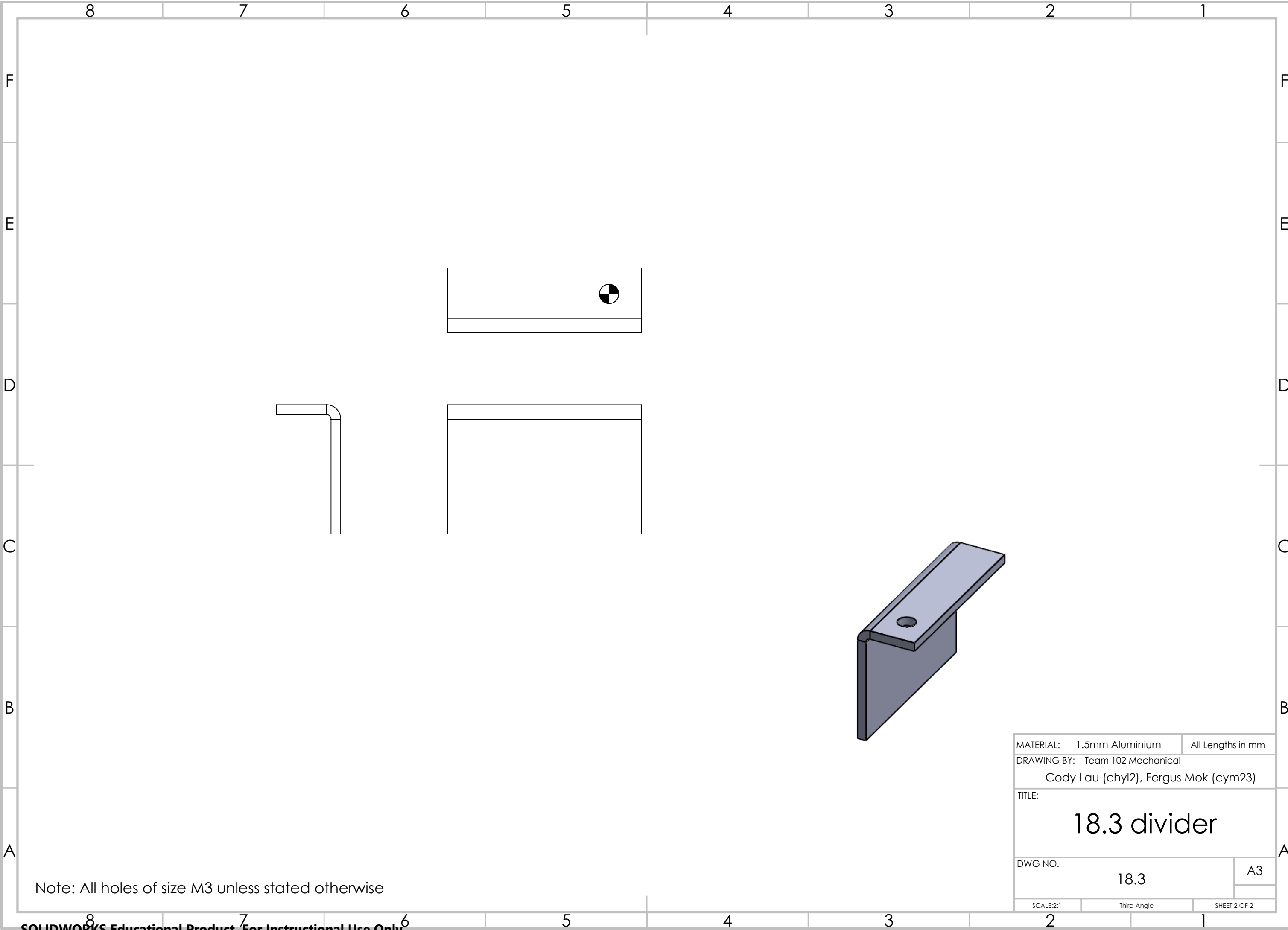
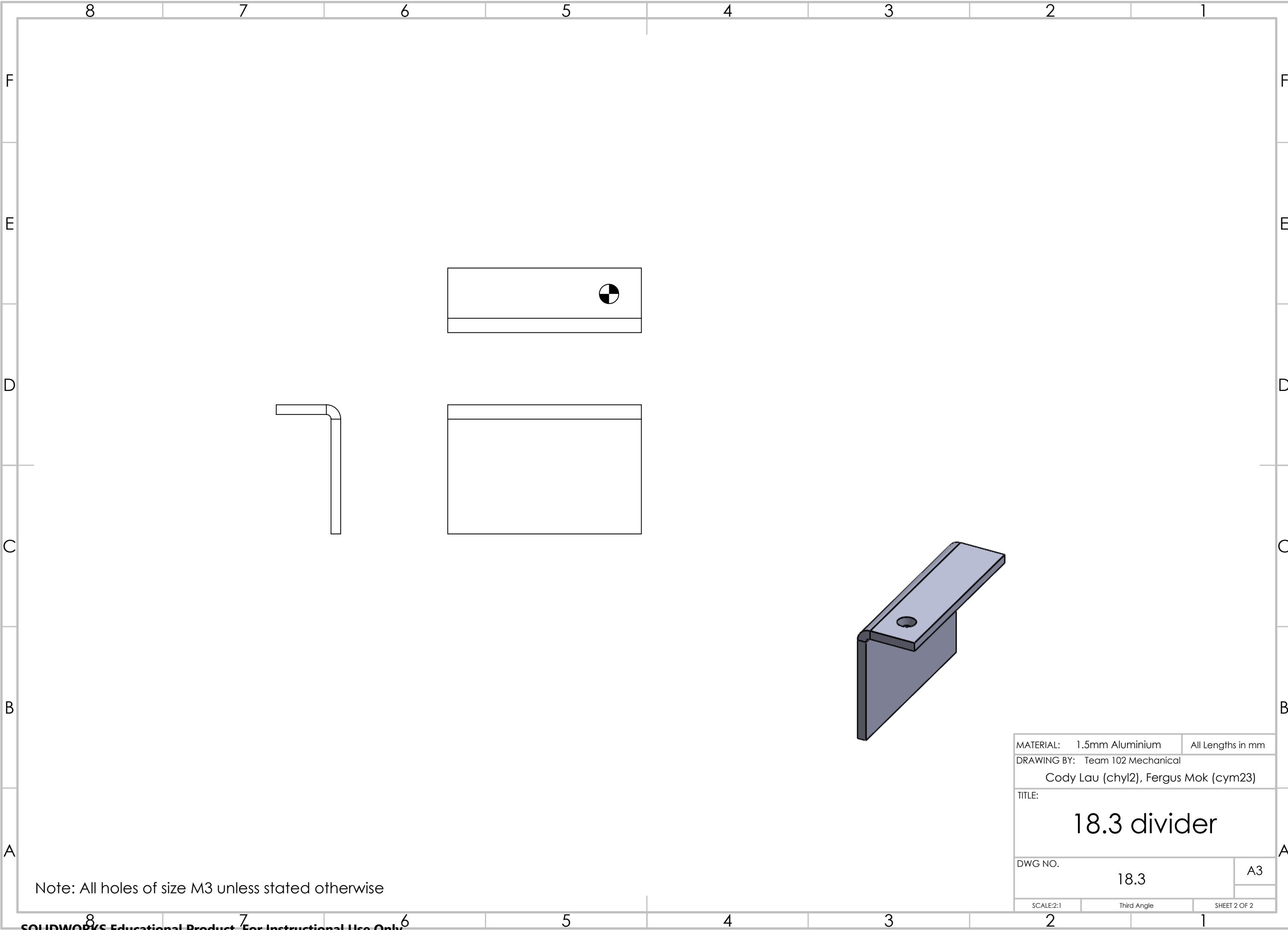
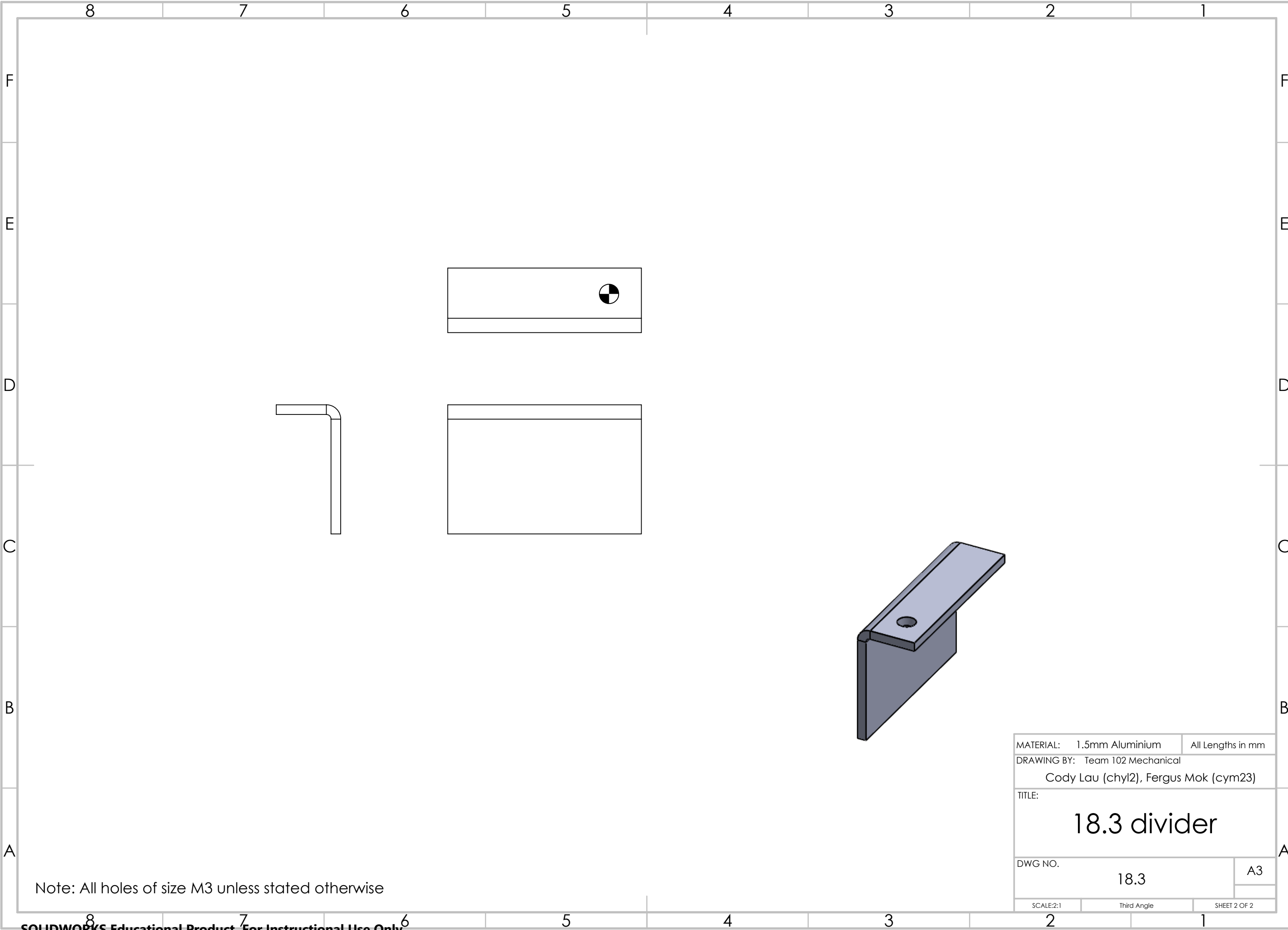
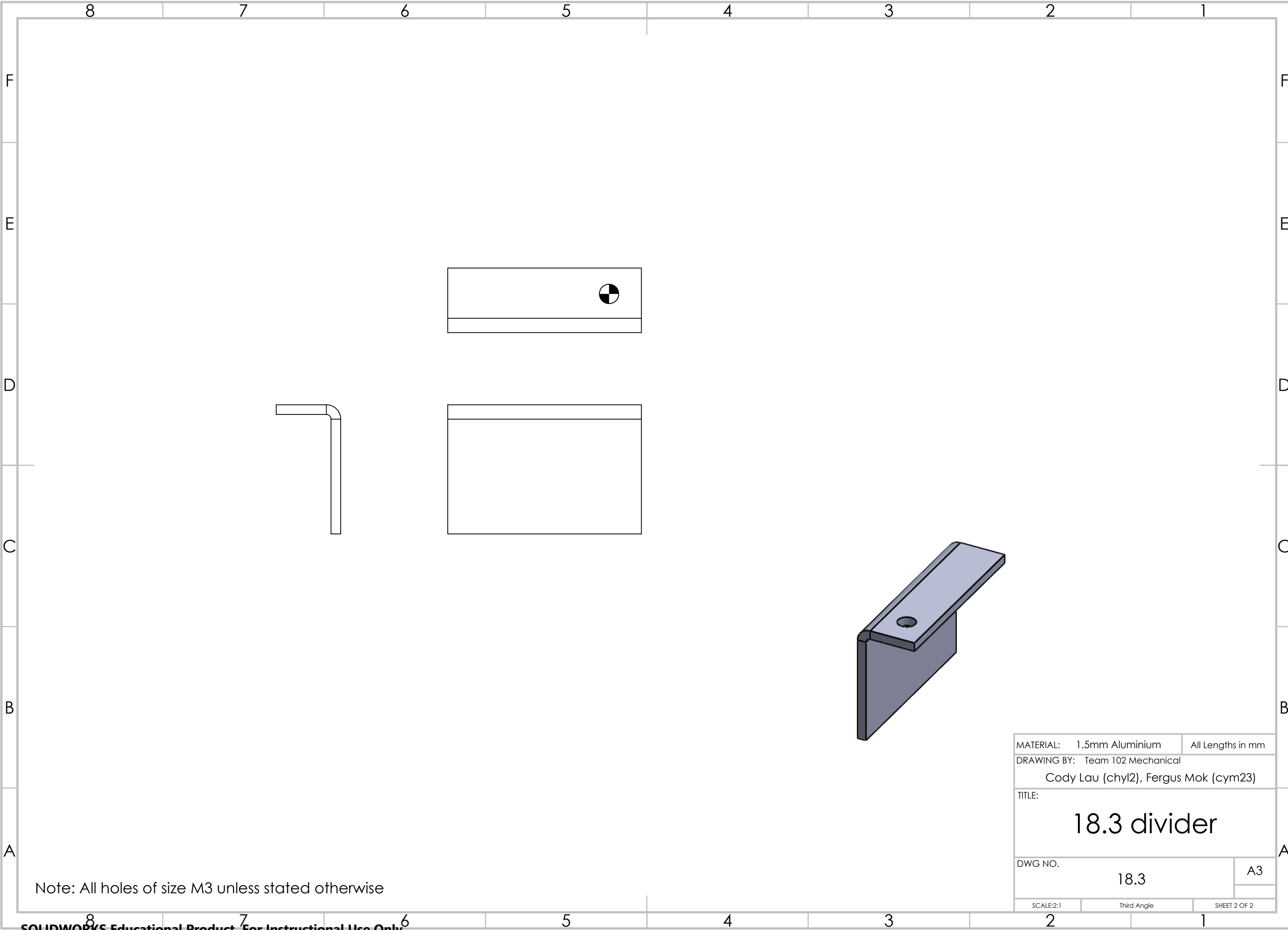
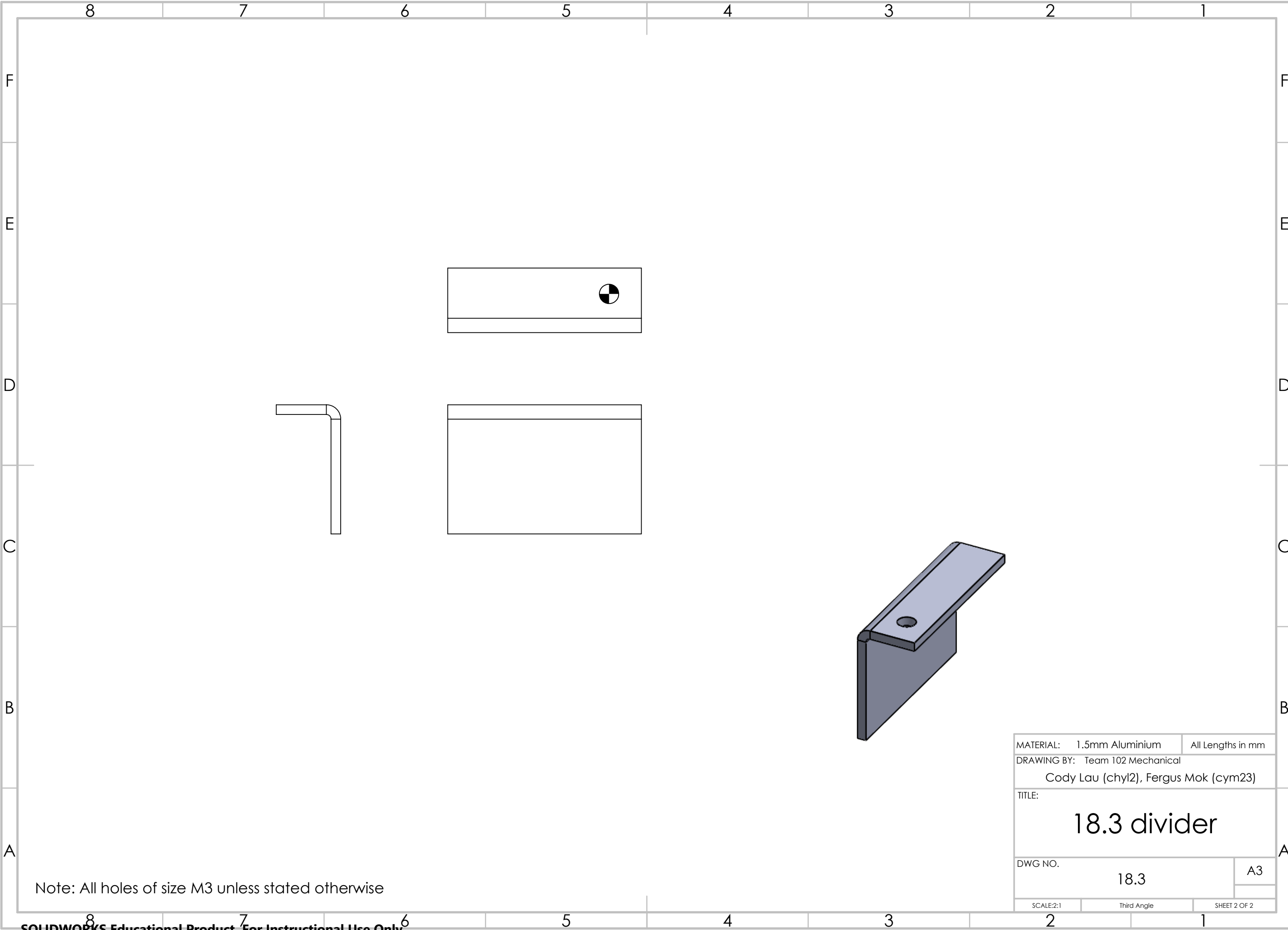
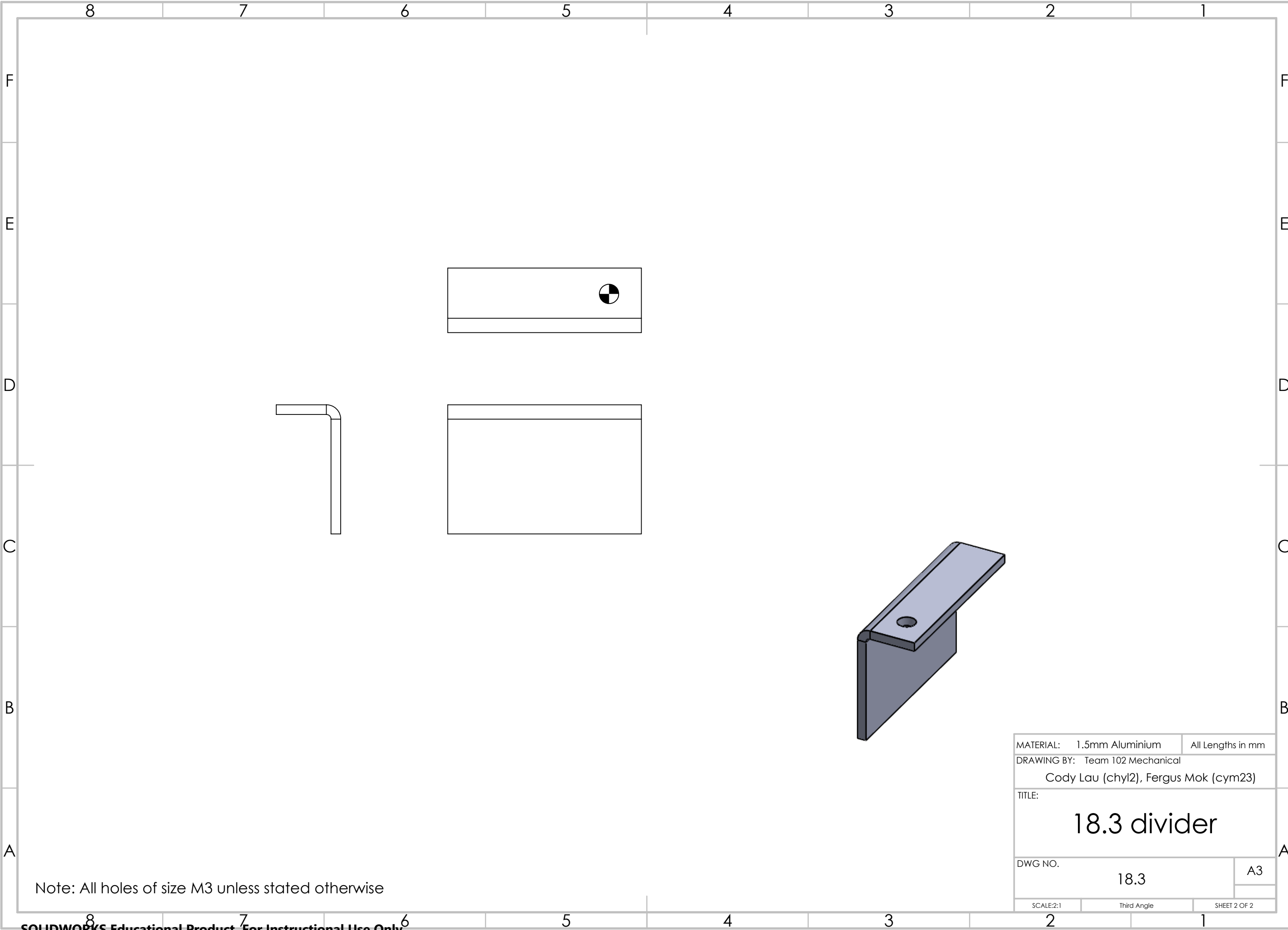
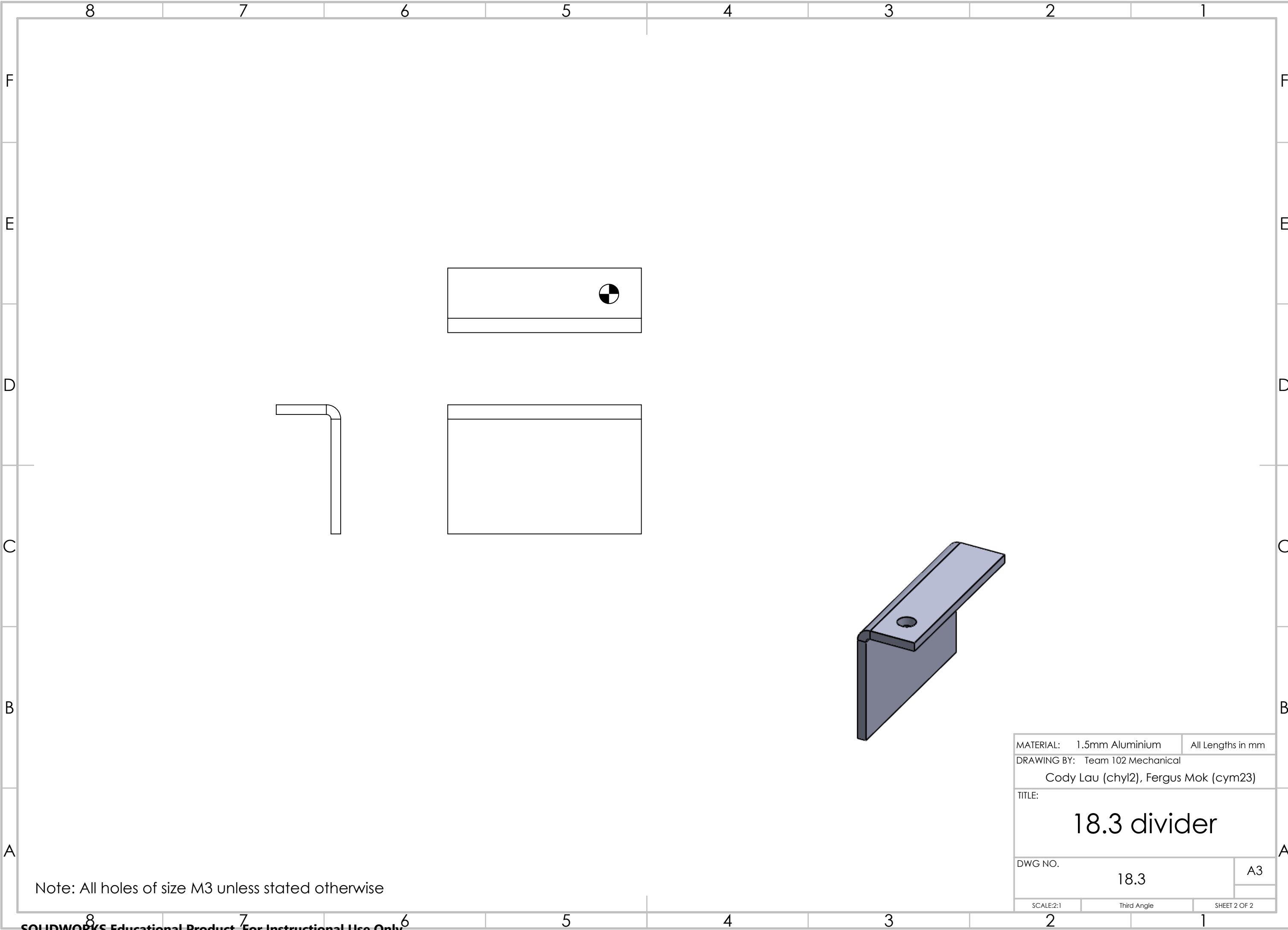
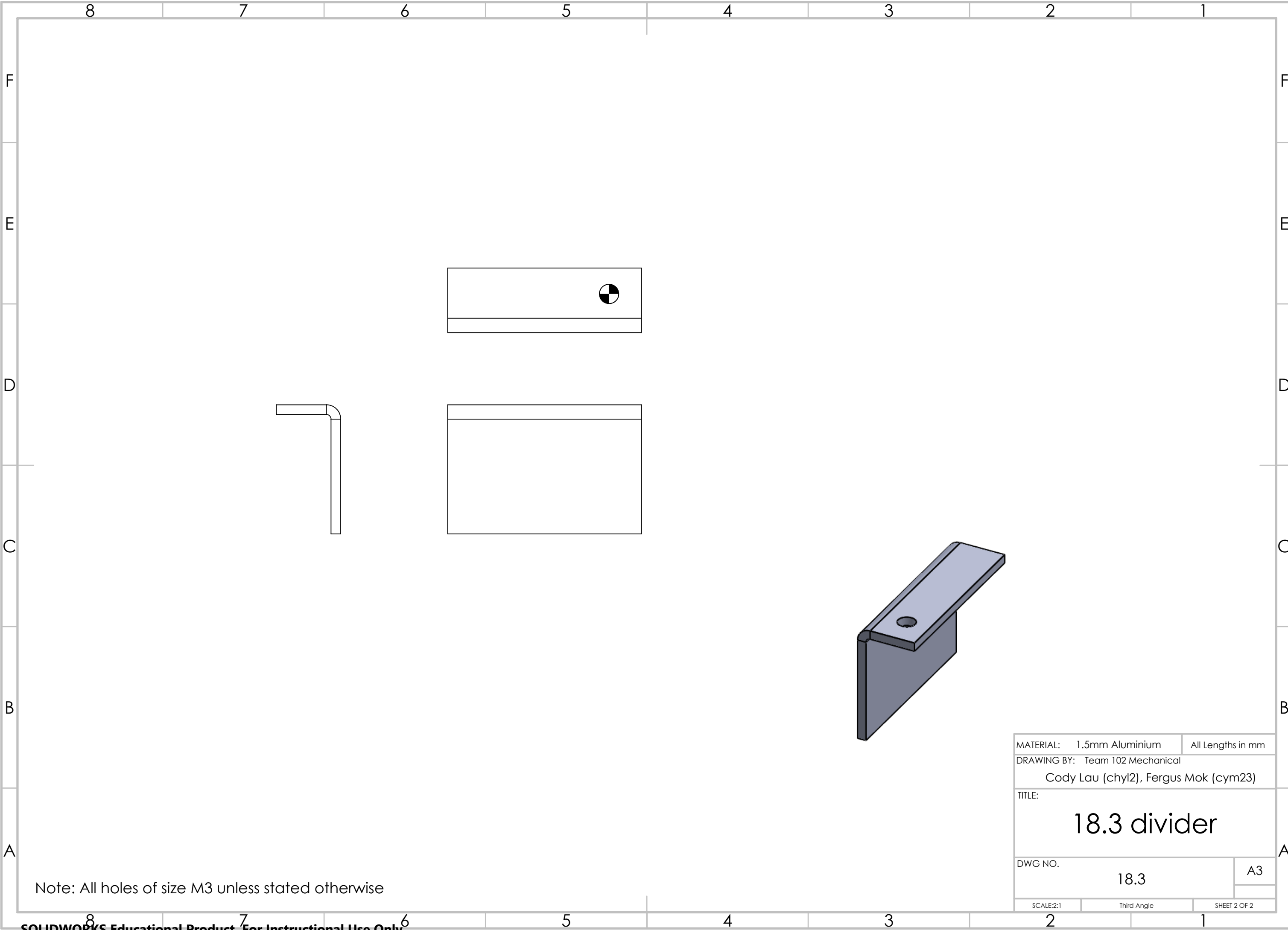
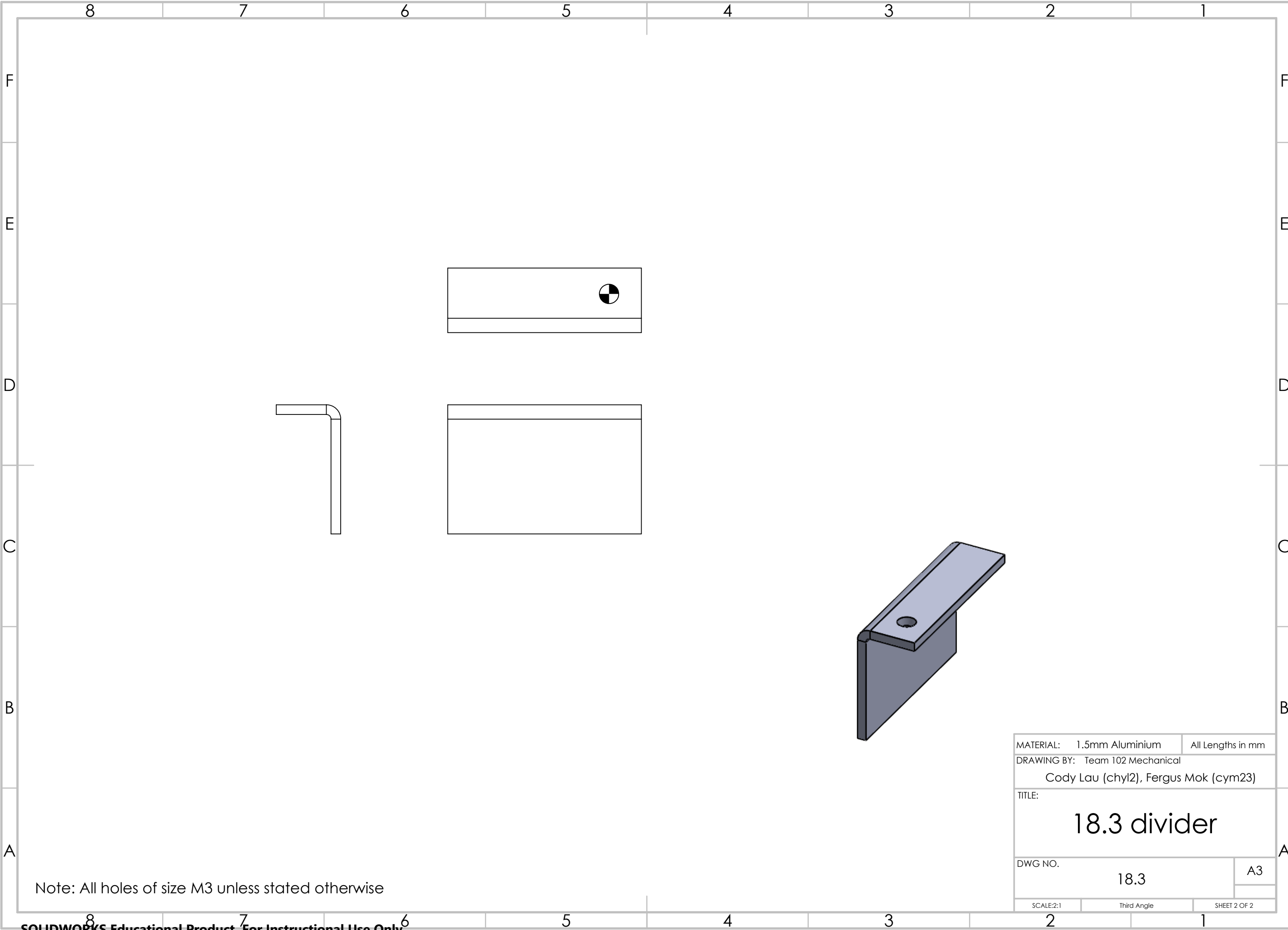
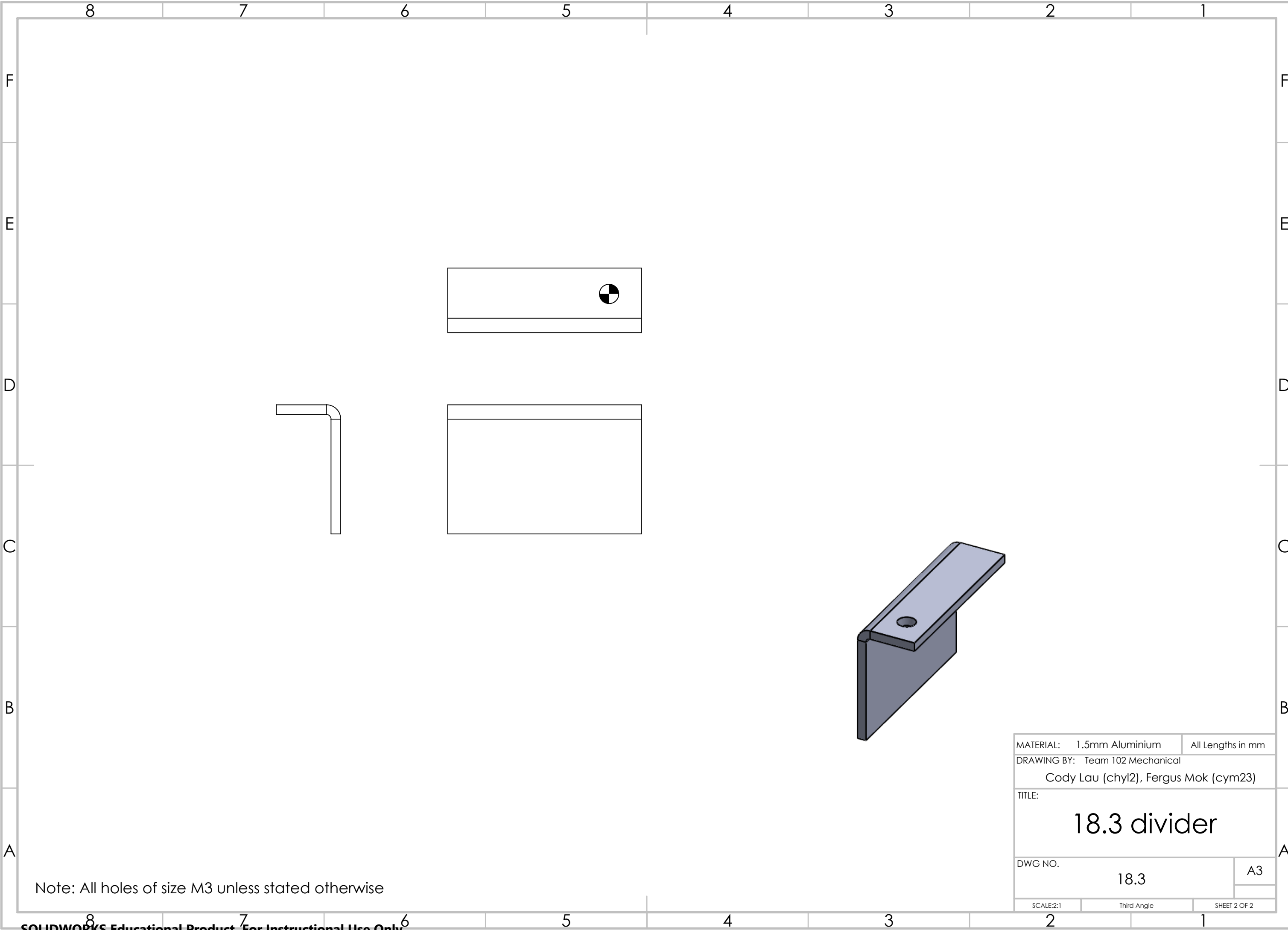
MATERIAL:	1.5mm Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	18.1 wall L plate left	
DWG NO.	18.1	A3
SCALE:1:1	Third Angle	SHEET 2 OF 2



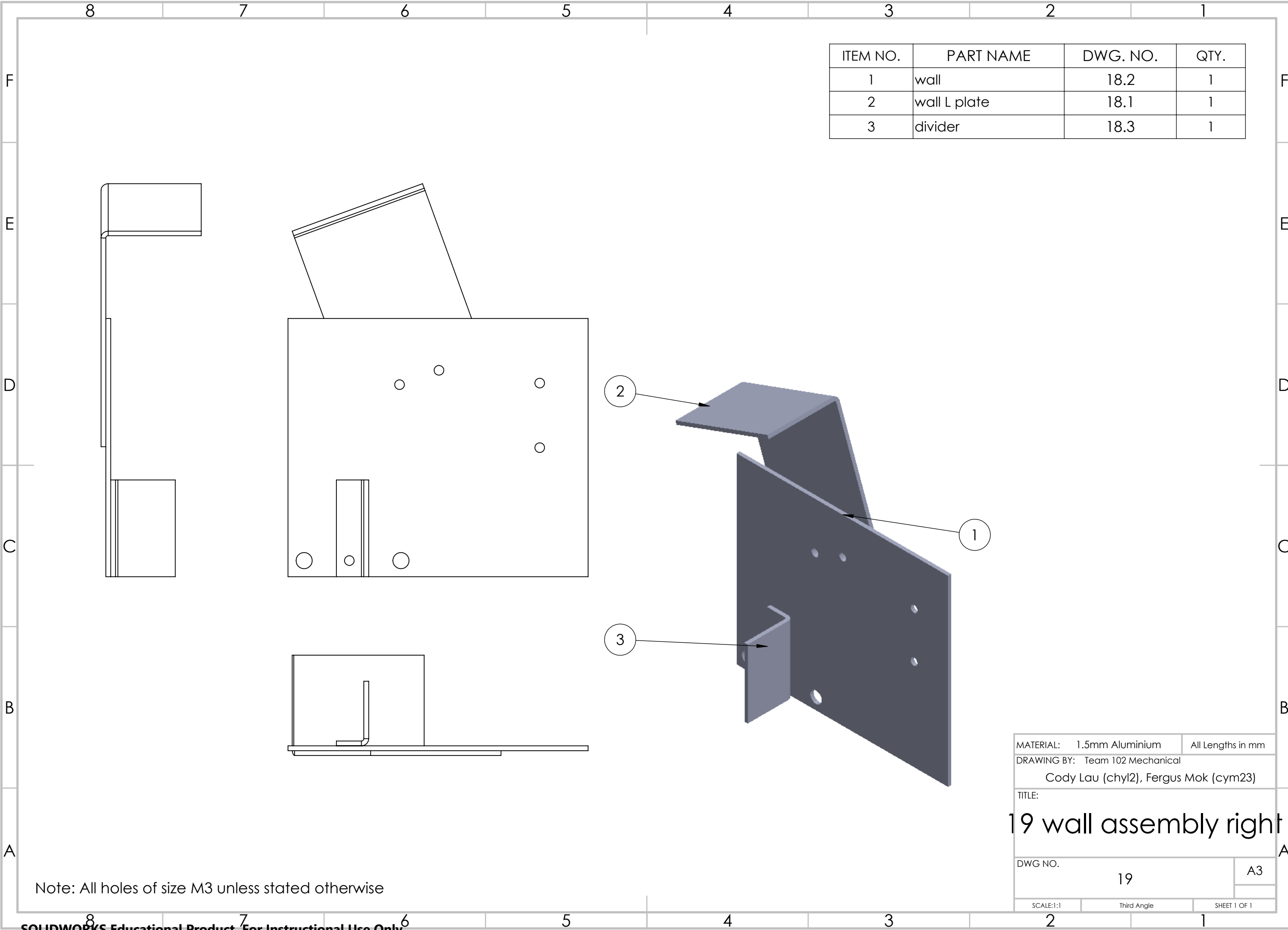


Note: All holes of size M3 unless stated otherwise

MATERIAL:	6mm MDF	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	18.3 divider	
DWG NO.	18.3	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2



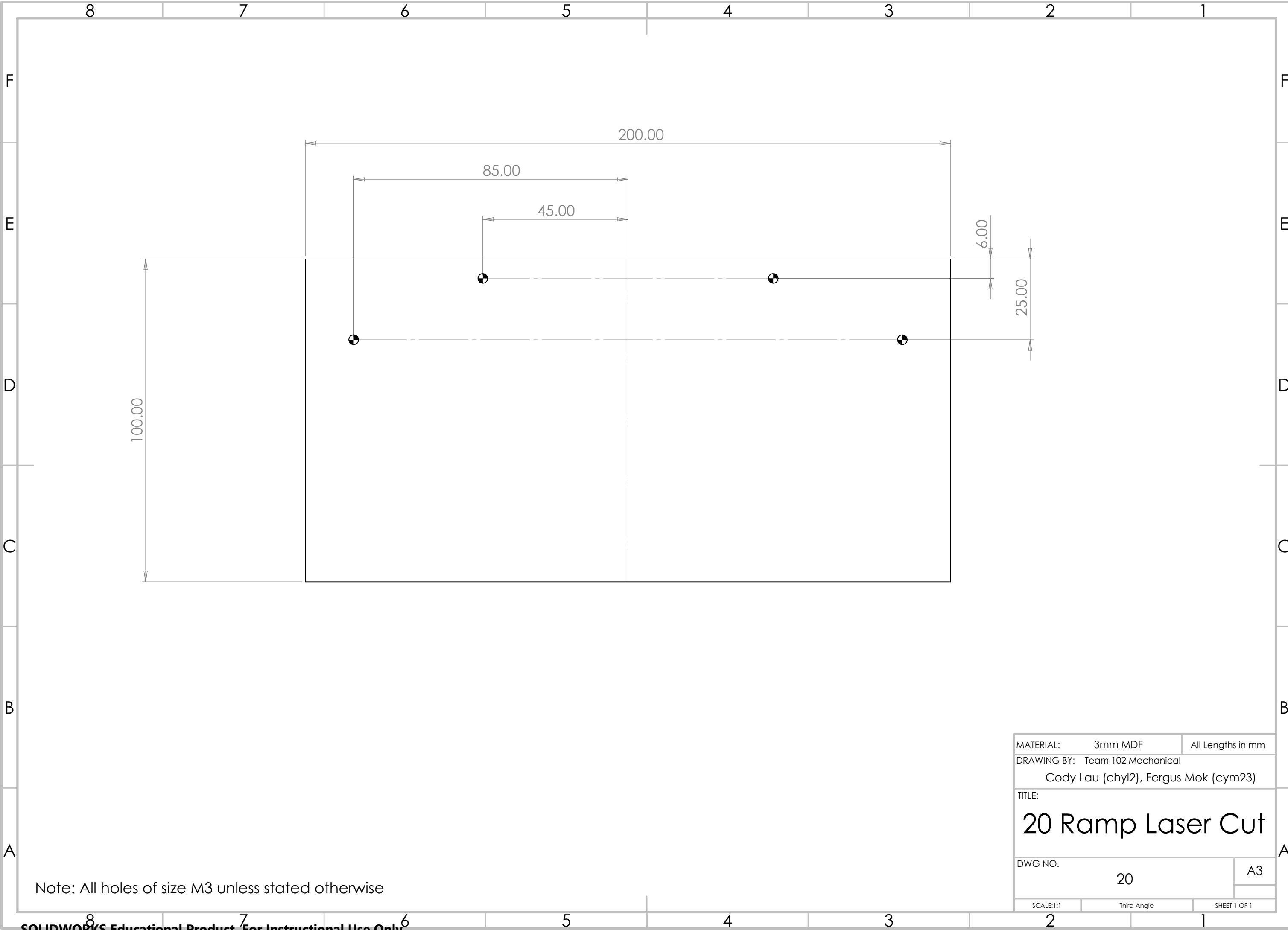




ITEM NO.	PART NAME	DWG. NO.	QTY.
1	wall	18.2	1
2	wall L plate	18.1	1
3	divider	18.3	1

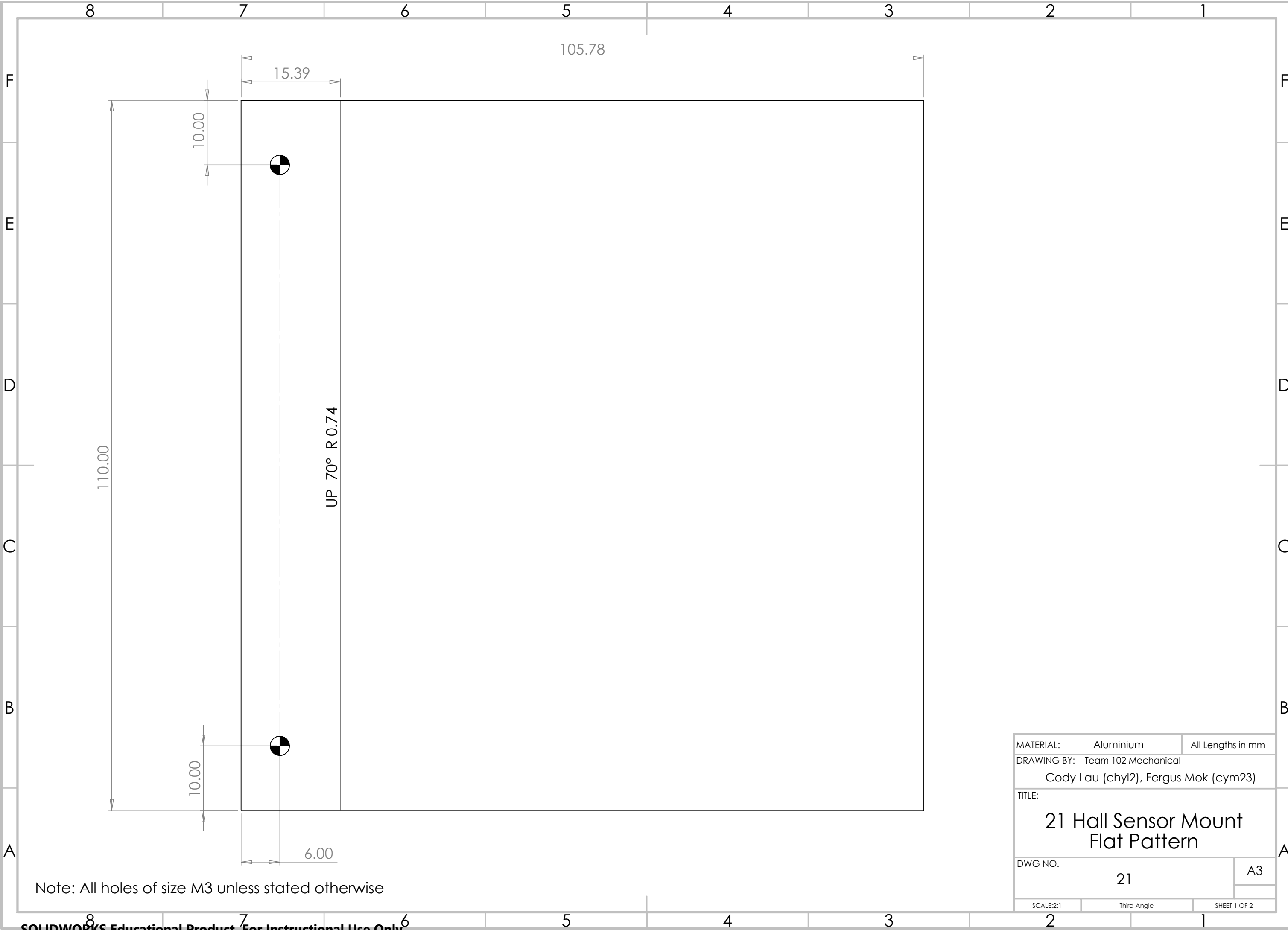
MATERIAL:	1.5mm Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	19 wall assembly right	
DWG NO.	19	A3
SCALE:1:1	Third Angle	SHEET 1 OF 1

Note: All holes of size M3 unless stated otherwise



Note: All holes of size M3 unless stated otherwise

MATERIAL:	3mm MDF	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	20 Ramp Laser Cut	
DWG NO.	20	A3
SCALE:1:1	Third Angle	SHEET 1 OF 1



Note: All holes of size M3 unless stated otherwise

MATERIAL:	Aluminium	All Lengths in mm
DRAWING BY:	Team 102 Mechanical Cody Lau (chyl2), Fergus Mok (cym23)	
TITLE:	21 Hall Sensor Mount Flat Pattern	
DWG NO.	21	A3
SCALE:2:1	Third Angle	SHEET 1 OF 2

