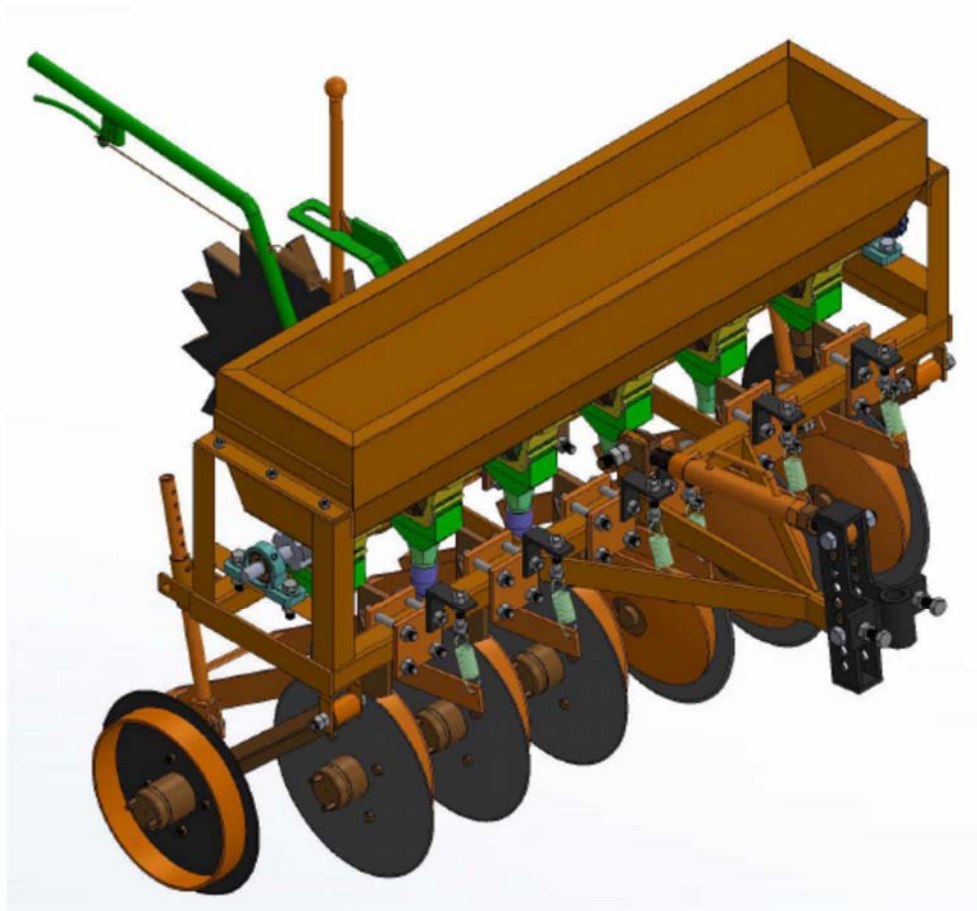
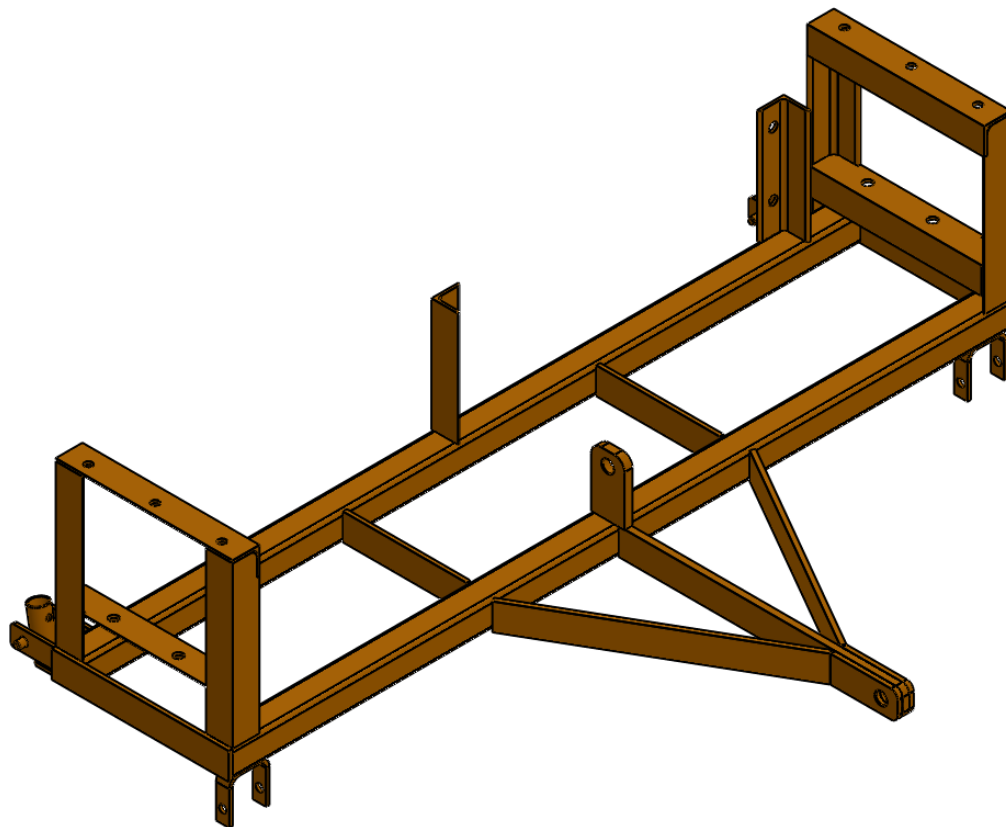


**GENERAL DIRECTORATE OF
AGRICULTURE
DEPARTMENT OF AGRICULTURAL
ENGINEERING**

Multi Crop Seed Planter

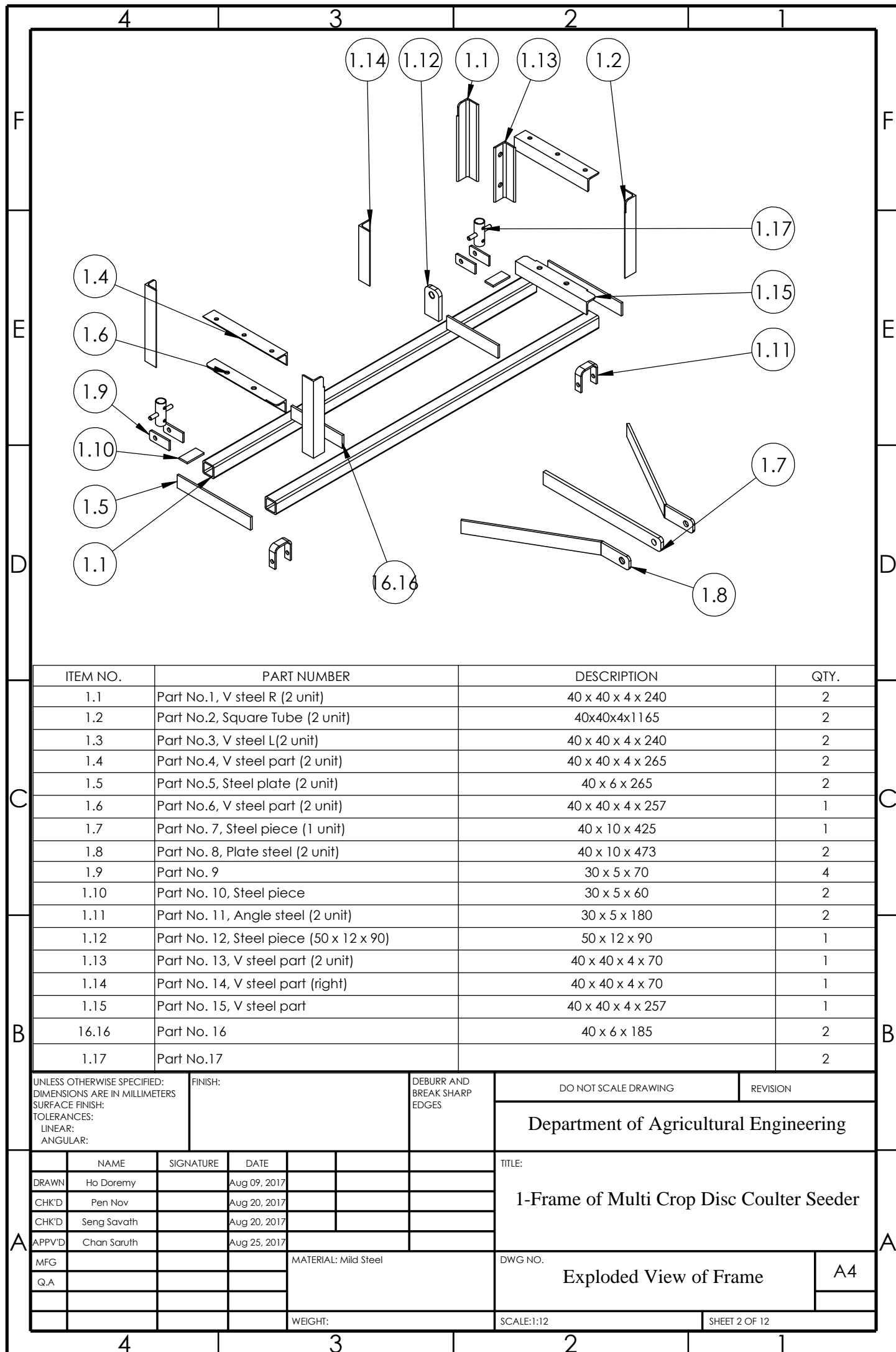


- Dry land seeder with disc coultter
- Operated by power tiller
- Multi Crop Seeding Rice, Maize, Soybean and others



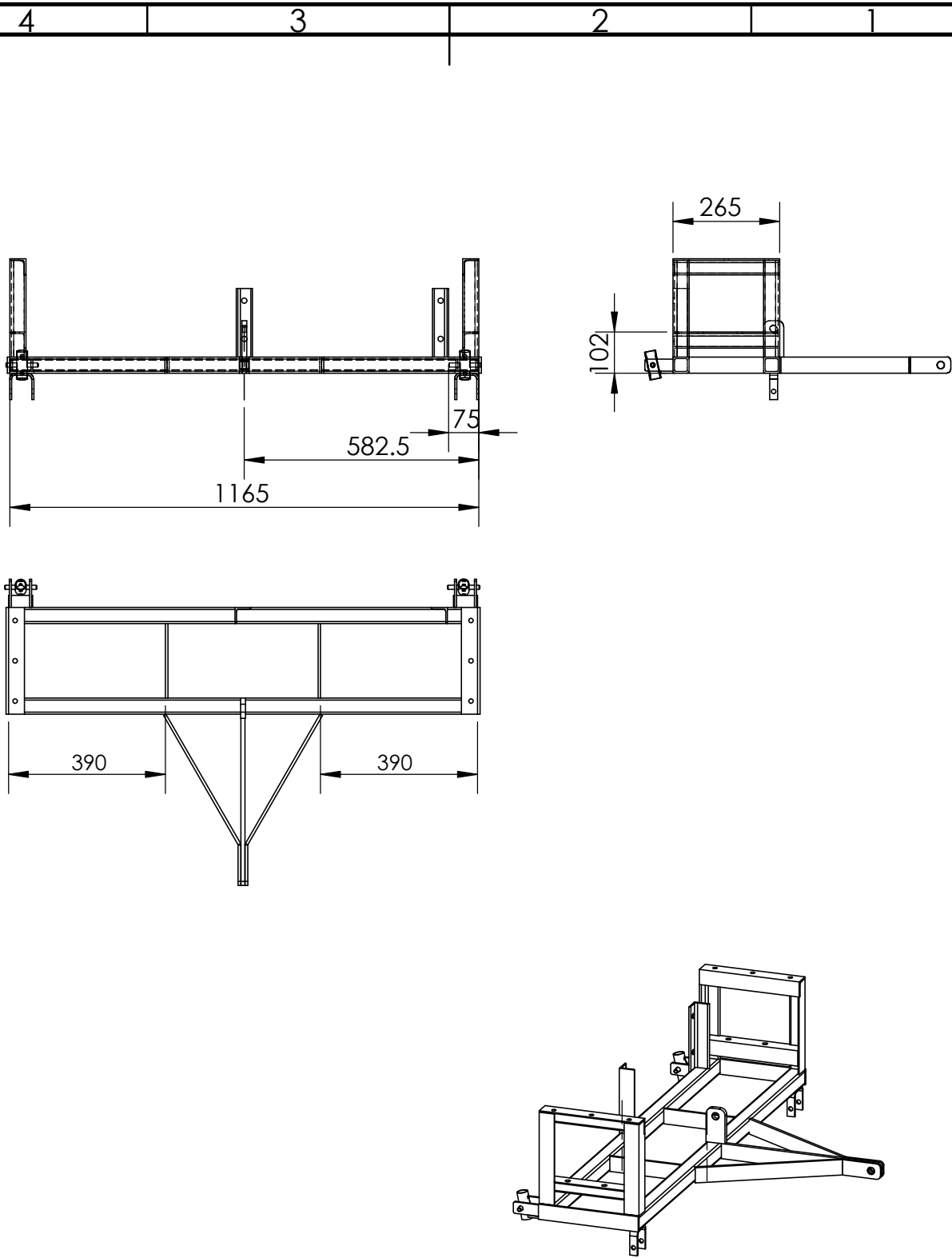
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION																											
								Department of Agricultural Engineering																													
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	NAME	SIGNATURE	DATE																																		
DRAWN	Ho Doremy		Aug 09, 2017																																		
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APPV'D	Chan Saruth		Aug 25, 2017																																		
MFG																																					
Q.A																																					
DWG NO. Assembly of Frame																																					
				WEIGHT:		SCALE: 1:8		SHEET 1 OF 12																													

A4



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1.1	Part No.1, V steel R (2 unit)	40 x 40 x 4 x 240	2
1.2	Part No.2, Square Tube (2 unit)	40x40x4x1165	2
1.3	Part No.3, V steel L(2 unit)	40 x 40 x 4 x 240	2
1.4	Part No.4, V steel part (2 unit)	40 x 40 x 4 x 265	2
1.5	Part No.5, Steel plate (2 unit)	40 x 6 x 265	2
1.6	Part No.6, V steel part (2 unit)	40 x 40 x 4 x 257	1
1.7	Part No. 7, Steel piece (1 unit)	40 x 10 x 425	1
1.8	Part No. 8, Plate steel (2 unit)	40 x 10 x 473	2
1.9	Part No. 9	30 x 5 x 70	4
1.10	Part No. 10, Steel piece	30 x 5 x 60	2
1.11	Part No. 11, Angle steel (2 unit)	30 x 5 x 180	2
1.12	Part No. 12, Steel piece (50 x 12 x 90)	50 x 12 x 90	1
1.13	Part No. 13, V steel part (2 unit)	40 x 40 x 4 x 70	1
1.14	Part No. 14, V steel part (right)	40 x 40 x 4 x 70	1
1.15	Part No. 15, V steel part	40 x 40 x 4 x 257	1
1.16	Part No. 16	40 x 6 x 185	2
1.17	Part No.17		2

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
						Department of Agricultural Engineering			
						TITLE:			
						1-Frame of Multi Crop Disc Coulter Seeder			
						DWG NO.			
						Exploded View of Frame			
						A4			
						SCALE:1:12			
						SHEET 2 OF 12			



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING
REVISION

Department of Agricultural Engineering

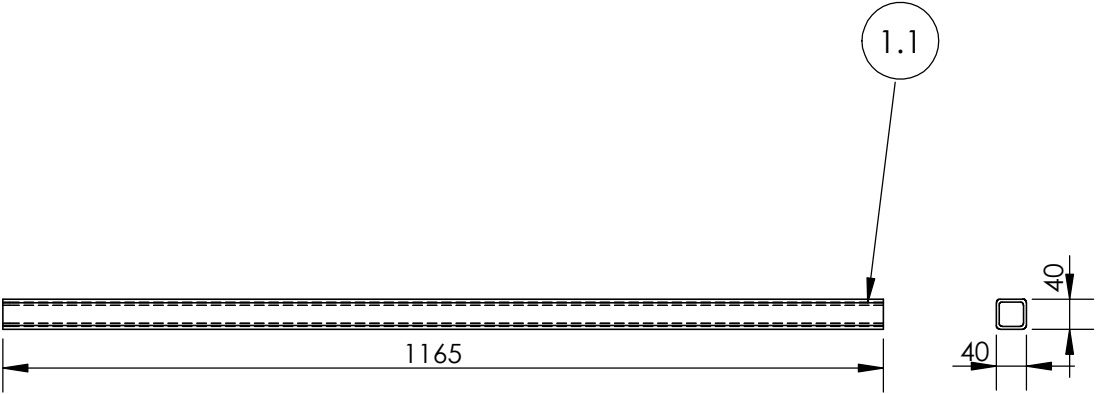
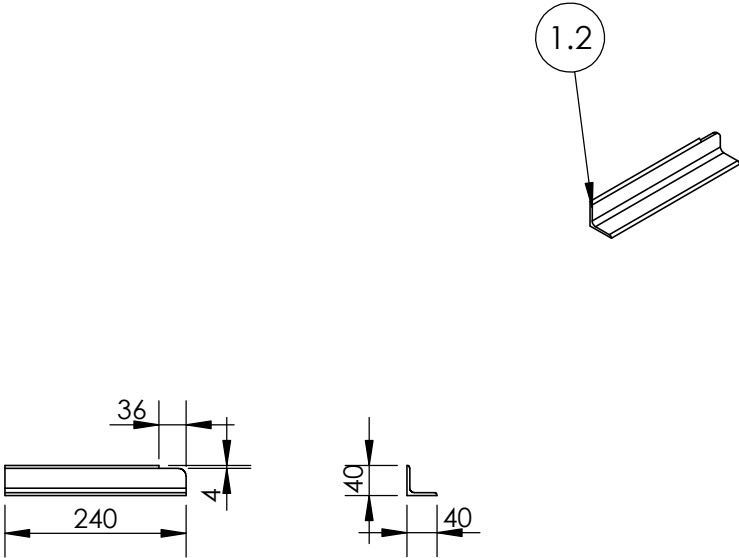
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1-Frame of Multi Crop Disc Coulter Seeder

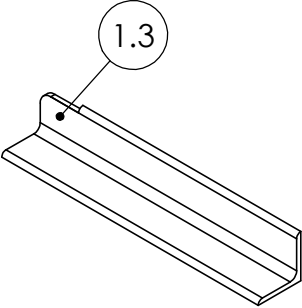

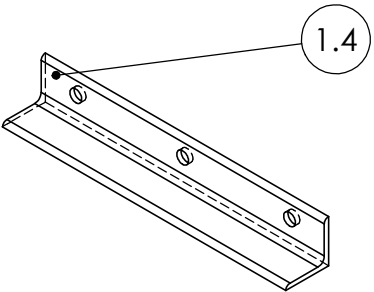
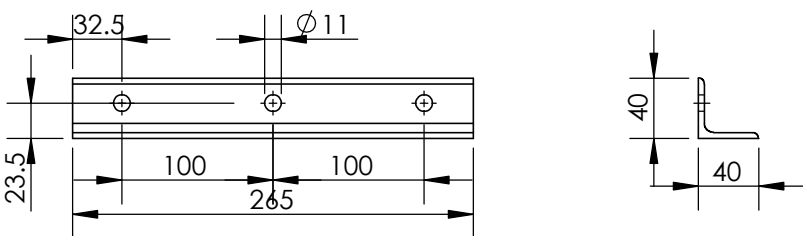
	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG						
Q.A						

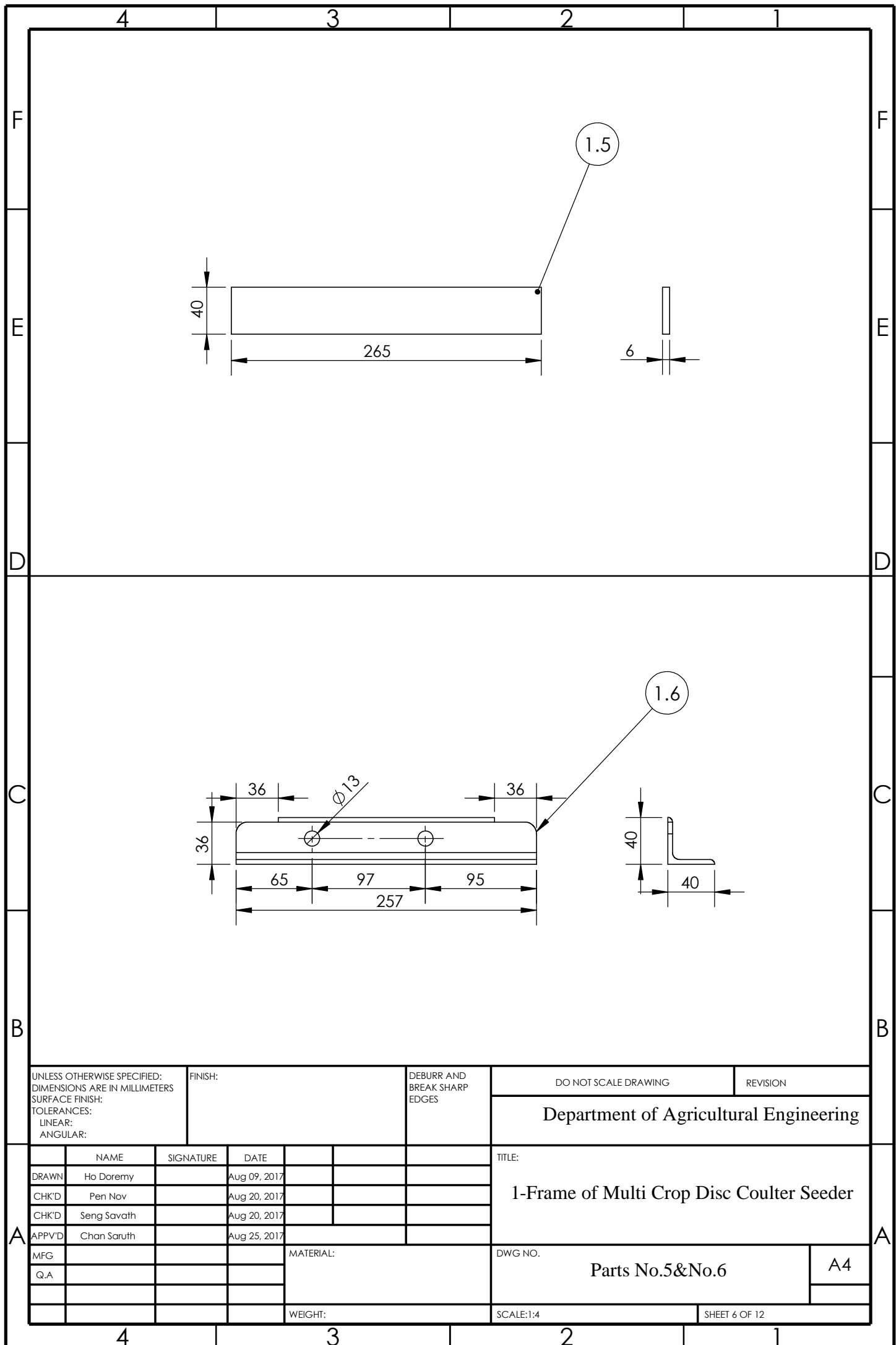
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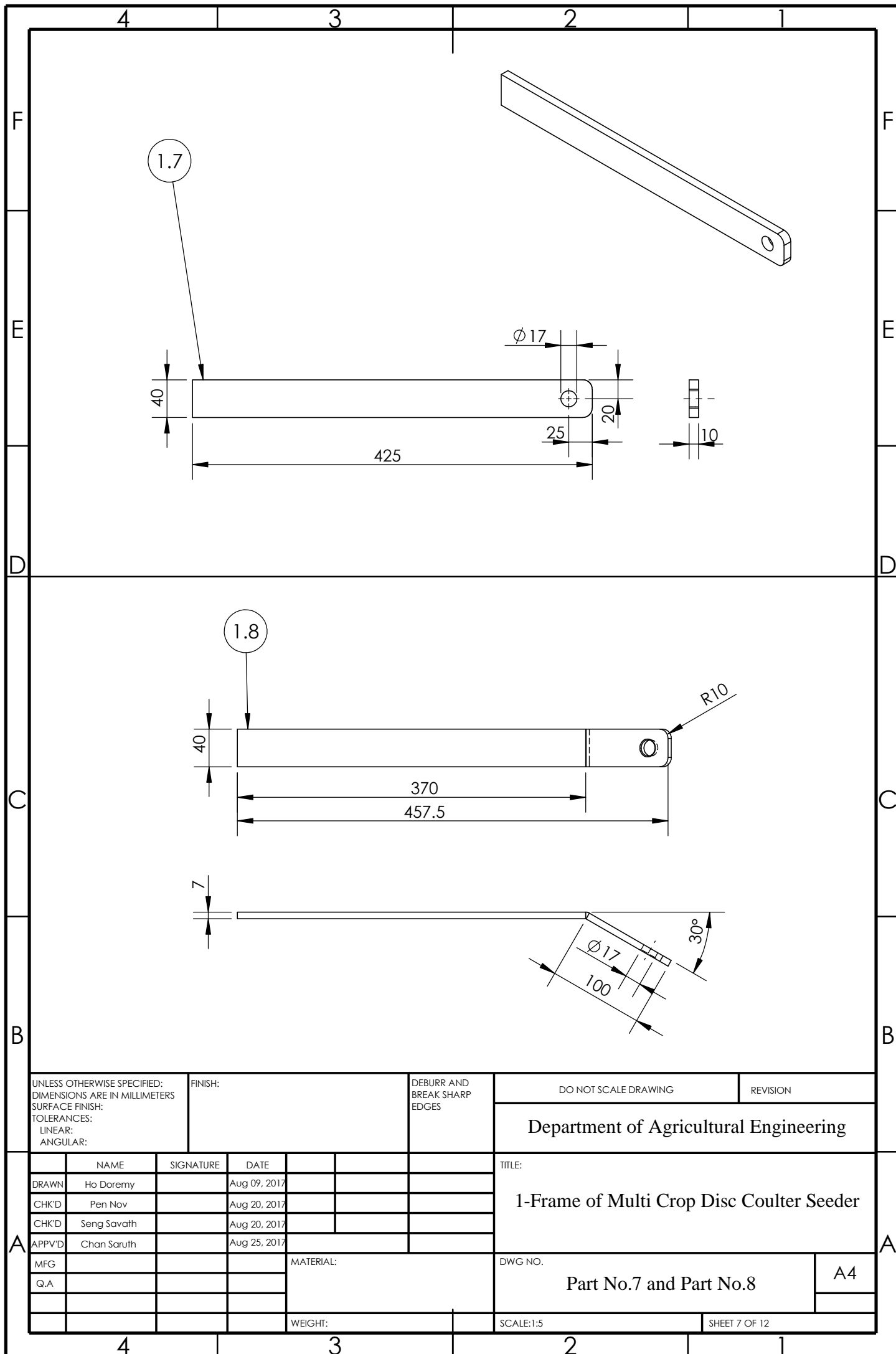
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DWG NO.
Frame of Equipment
A4
SCALE:1:15
SHEET 3 OF 12

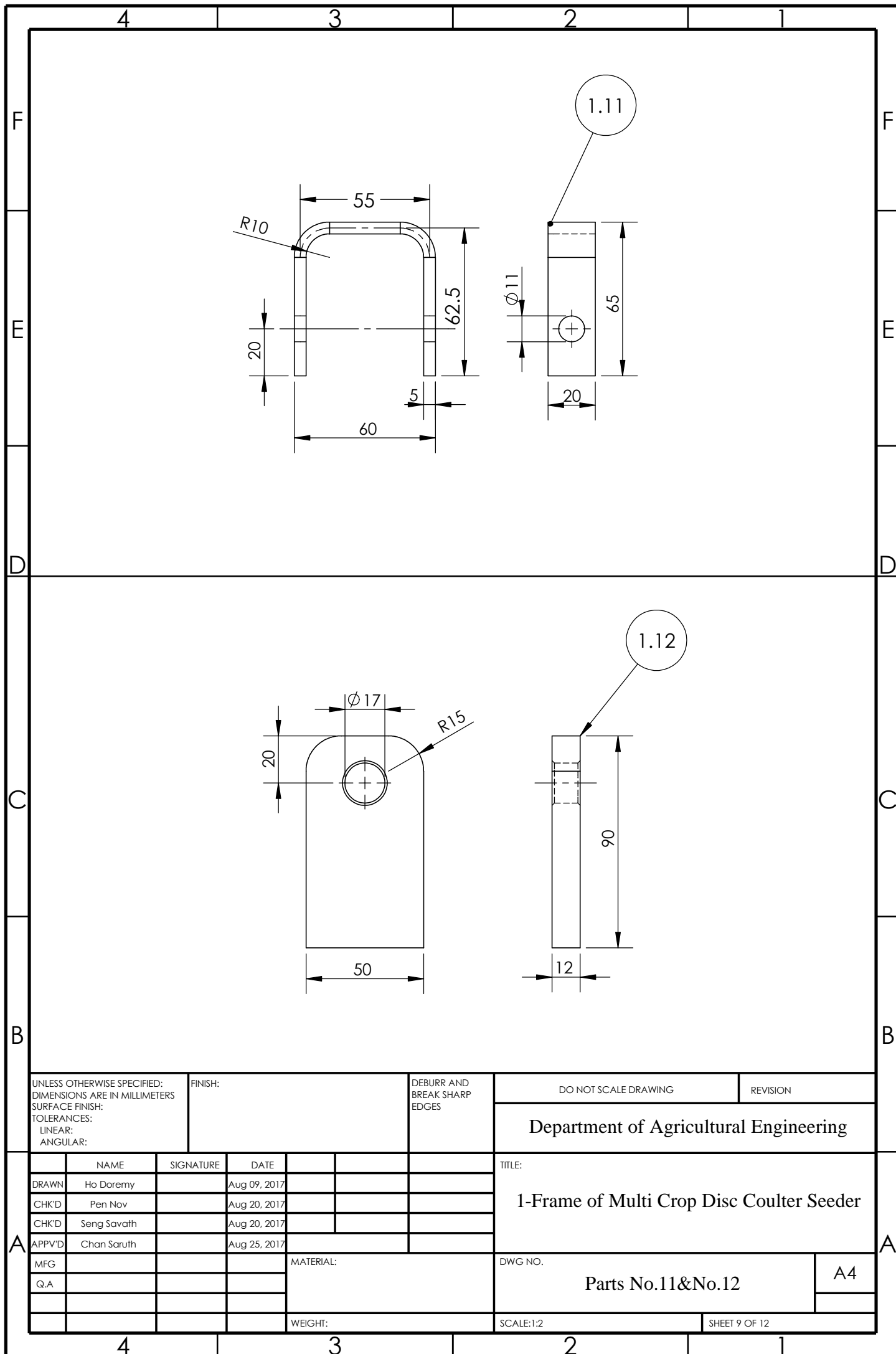
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	CHK'D	Pen Nov		Aug 20, 2017			
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	APPV'D	Chan Saruth		Aug 25, 2017			
MFG							
Q.A				MATERIAL:	DWG NO.	Parts: No.1&No.2	
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C				C																																																																									
B	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <small>FINISH:</small> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <small>DEBURR AND BREAK SHARP EDGES</small> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <small>DO NOT SCALE DRAWING</small> </div> <div style="width: 50%;"> <small>REVISION</small> </div> </div> <div style="border: 1px solid black; padding: 5px; text-align: center; margin-bottom: 5px;"> Department of Agricultural Engineering </div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 10%;"></td> <td style="width: 15%; text-align: center;"><small>NAME</small></td> <td style="width: 15%; text-align: center;"><small>SIGNATURE</small></td> <td style="width: 15%; text-align: center;"><small>DATE</small></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td rowspan="6" style="width: 40%; text-align: center; vertical-align: middle;"> <small>TITLE:</small> 1-Frame of Multi Crop Disc Coulter Seeder </td> </tr> <tr> <td style="text-align: center;"><small>DRAWN</small></td> <td>Ho Doremy</td> <td></td> <td>Aug 09, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><small>CHK'D</small></td> <td>Pen Nov</td> <td></td> <td>Aug 20, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><small>CHK'D</small></td> <td>Seng Savath</td> <td></td> <td>Aug 20, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><small>APPV'D</small></td> <td>Chan Saruth</td> <td></td> <td>Aug 20, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><small>MFG</small></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"><small>Q.A</small></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="3" style="text-align: center; vertical-align: middle;"> <small>DWG NO.</small> Parts: No.3&No.4 </td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center; vertical-align: middle;"> A4 </td> </tr> </table> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 45%;"> <small>WEIGHT:</small> </div> <div style="width: 30%;"> <small>SCALE: 1:5</small> </div> <div style="width: 25%;"> <small>SHEET 5 OF 12</small> </div> </div>				<small>NAME</small>	<small>SIGNATURE</small>	<small>DATE</small>				<small>TITLE:</small> 1-Frame of Multi Crop Disc Coulter Seeder	<small>DRAWN</small>	Ho Doremy		Aug 09, 2017				<small>CHK'D</small>	Pen Nov		Aug 20, 2017				<small>CHK'D</small>	Seng Savath		Aug 20, 2017				<small>APPV'D</small>	Chan Saruth		Aug 20, 2017				<small>MFG</small>							<small>Q.A</small>							<small>DWG NO.</small> Parts: No.3&No.4																						A4	B
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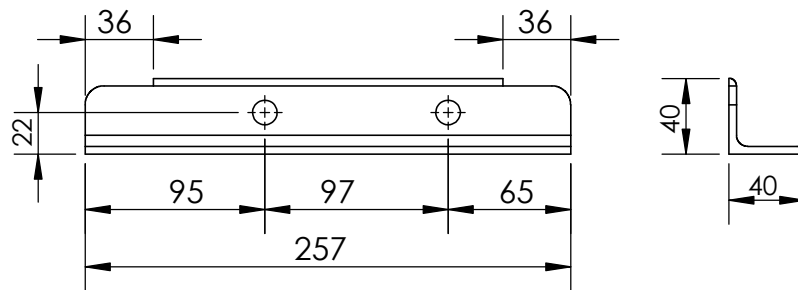


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					Department of Agricultural Engineering		
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CHK'D	Seng Savath	Aug 20, 2017					
APPV'D	Chan Saruth	Aug 25, 2017					
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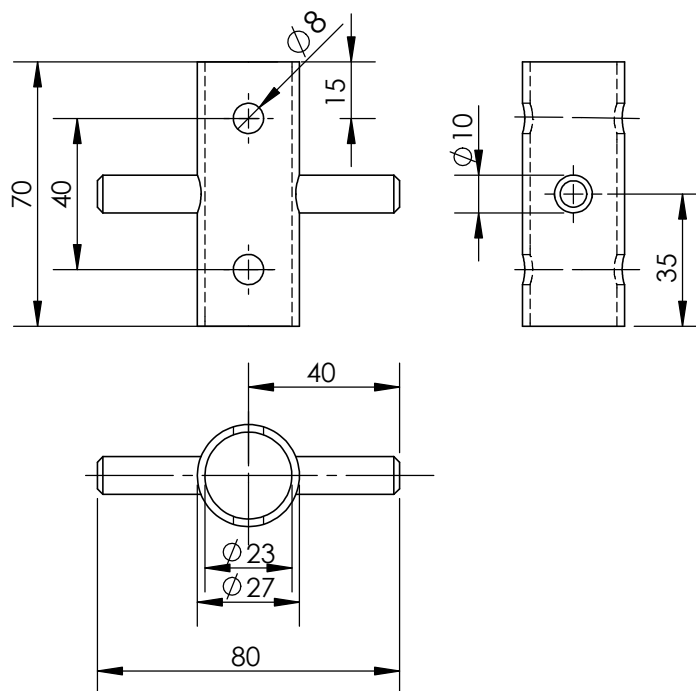
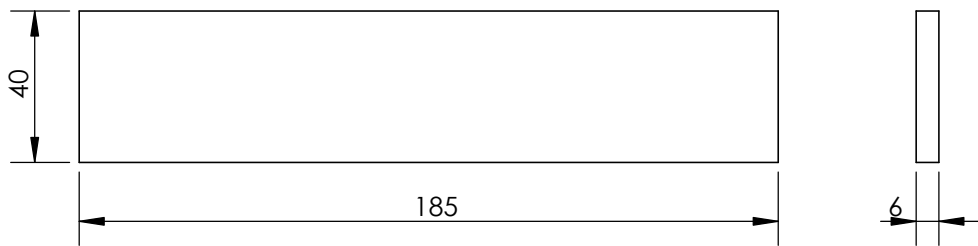
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							Department of Agricultural Engineering				
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APPV'D		Chan Saruth		Aug 25, 2017							
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1.15



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
								Department of Agricultural Engineering			
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								Part No.15			
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NAME	SIGNATURE	DATE			
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CHK'D	Pen Nov	Aug 20, 2017			
CHK'D	Seng Savath	Aug 20, 2017			
APPV'D	Chan Saruth	Aug 25, 2017			
MFG			MATERIAL:		
Q.A					
			WEIGHT:		



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FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

1-Frame of Multi Crop Disc Coulter Seeder

DWG NO.

Part No.16 and N0.17

A4

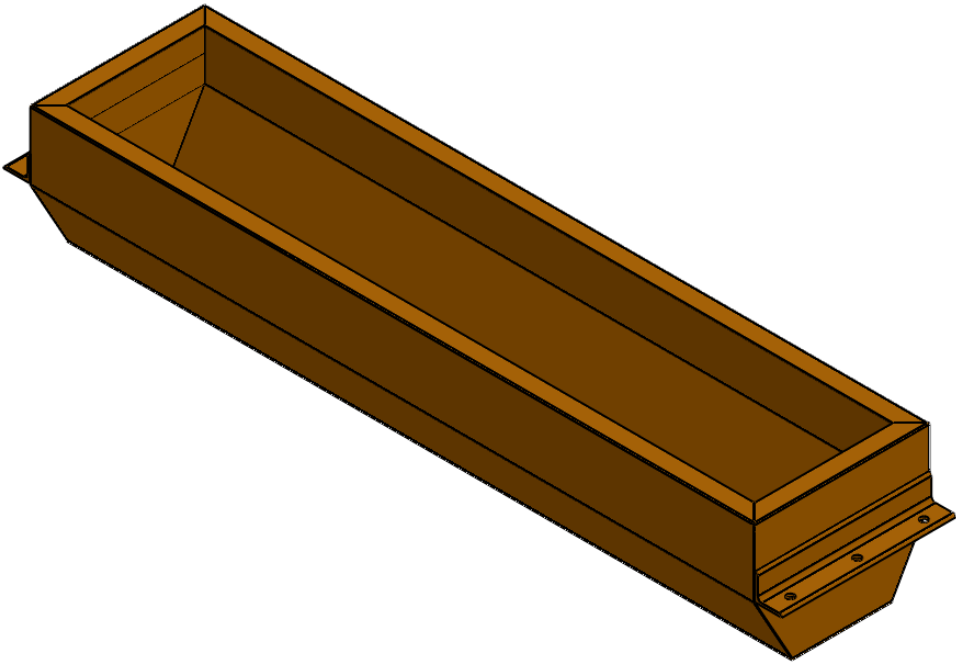
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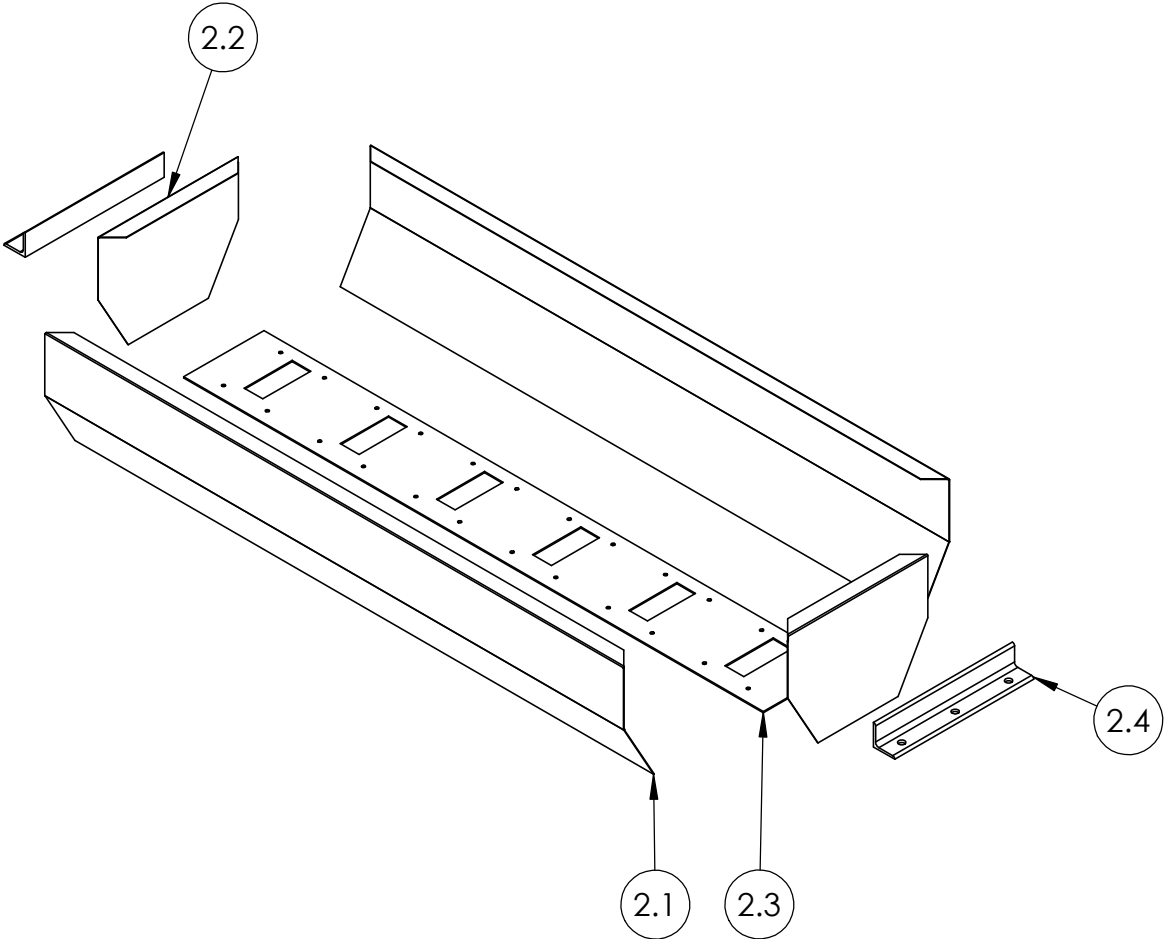
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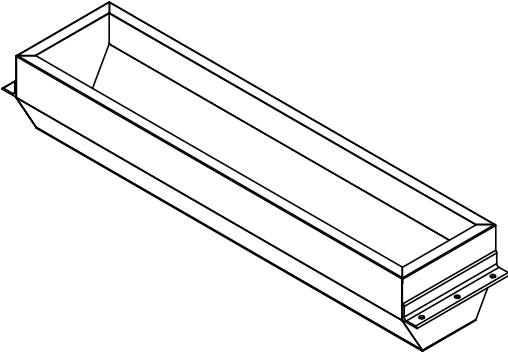
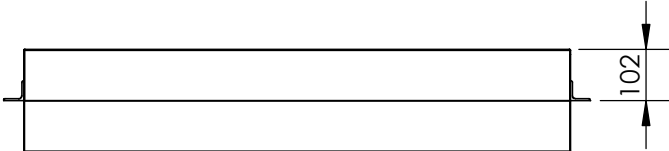
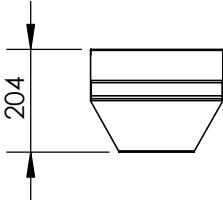
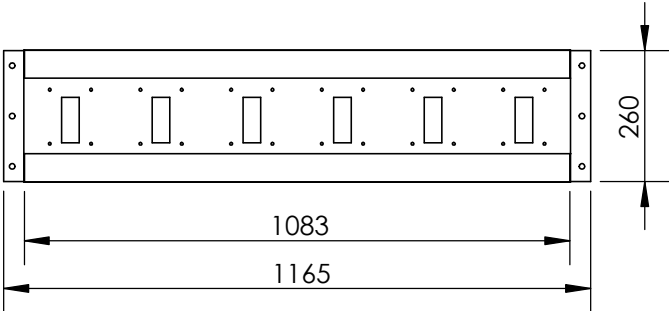
SHEET 12 OF 12

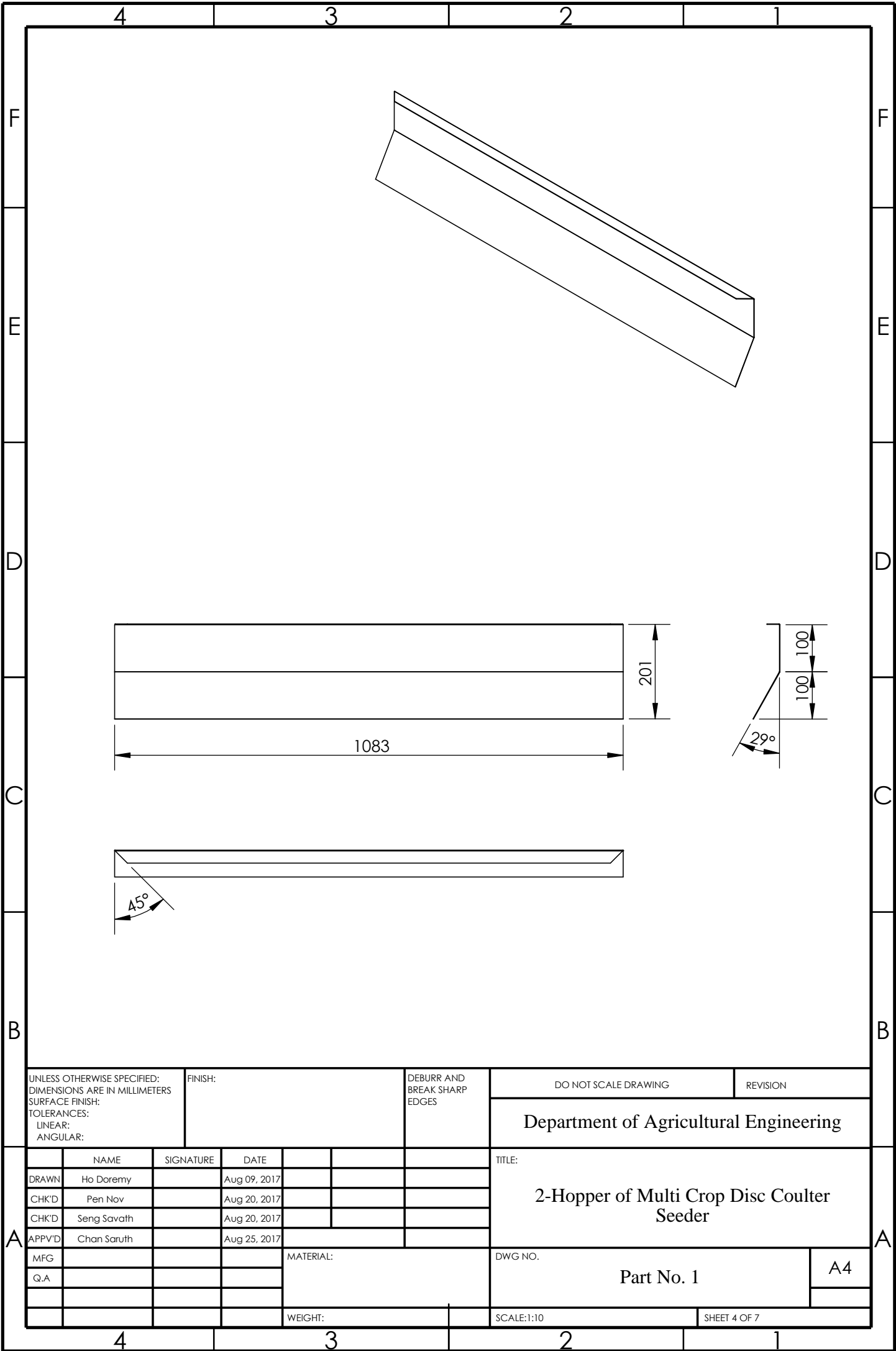
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CHK'D Seng Savath		Aug 20, 2017			
APPV'D Chan Saruth		Aug 25, 2017			
MFG					
Q.A					

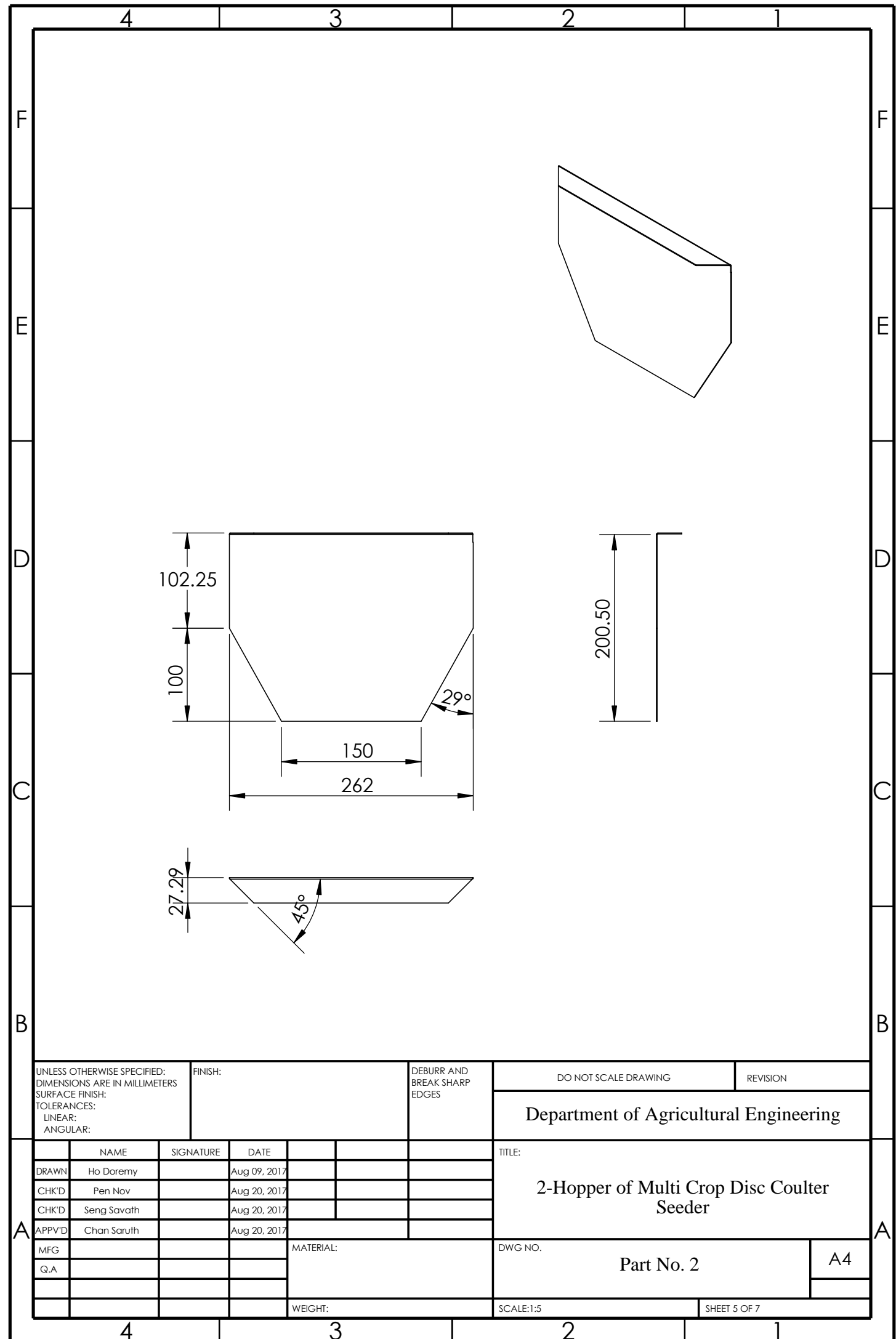
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														Department of Agricultural Engineering							
														TITLE: 2-Hopper of Multi Crop Disc Coulter Seeder							
DRAWN								Ho Doremy													
CHK'D								Pen Nov													
CHK'D								Seng Savath													
APPV'D								Chan Saruth								DWG NO. Assem of Seed Hopper					
MFG																					
Q.A																					
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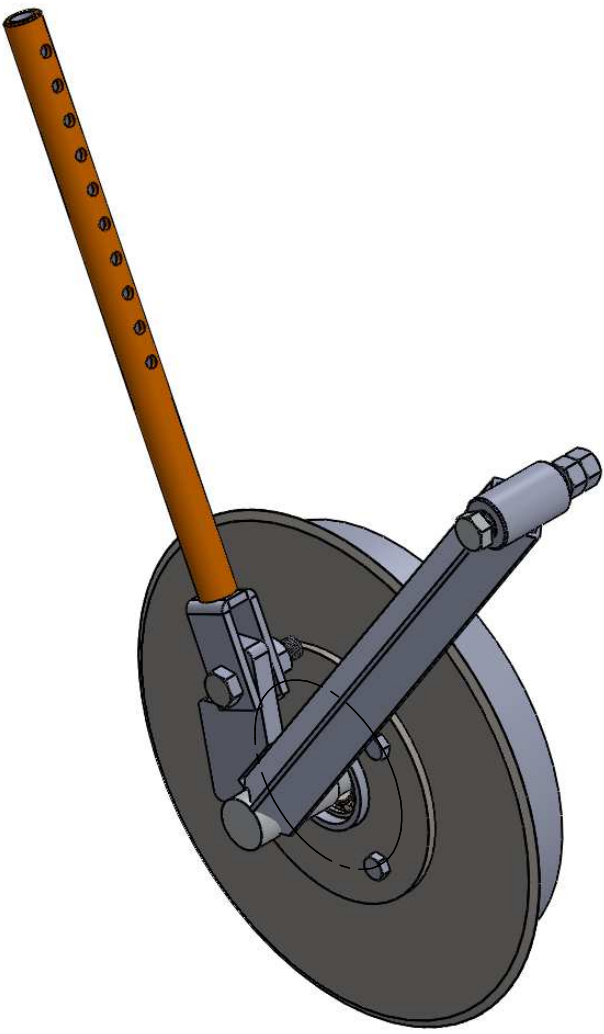


	4	3	2	1																						
F						F																				
E						E																				
D						D																				
C						C																				
B	<table><tr><th>ITEM NO.</th><th>PART NUMBER</th><th>DESCRIPTION</th><th>QTY.</th></tr><tr><td>2.1</td><td>Part No.1 of Seed Hopper</td><td></td><td>2</td></tr><tr><td>2.2</td><td>Part No.2 of Seed Hopper</td><td></td><td>2</td></tr><tr><td>2.3</td><td>Part No.3 of Seed Hopper</td><td></td><td>1</td></tr><tr><td>2.4</td><td>Part No.4 of Seed Hopper</td><td></td><td>2</td></tr></table>					ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	2.1	Part No.1 of Seed Hopper		2	2.2	Part No.2 of Seed Hopper		2	2.3	Part No.3 of Seed Hopper		1	2.4	Part No.4 of Seed Hopper		2	B
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.																							
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2.2	Part No.2 of Seed Hopper		2																							
2.3	Part No.3 of Seed Hopper		1																							
2.4	Part No.4 of Seed Hopper		2																							
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						Department of Agricultural Engineering																				
						TITLE: 2-Hopper of Multi Crop Disc Coulter Seeder																				
						DWG NO.																				
						Seed Hopper (Exploded View)																				
						A4																				
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					SHEET 2 OF 7																					
	4	3	2	1																						

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E					E		
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B					B		
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						Department of Agricultural Engineering	
						TITLE: 2-Hopper of Multi Crop Disc Coulter Seeder	
	NAME	SIGNATURE	DATE				
	DRAWN	Ho Doremy	Aug 09, 2017				
	CHK'D	Pen Nov	Aug 20, 2017				
	CHK'D	Seng Savath	Aug 20, 2017				
	APPV'D	Chan Saruth	Aug 20, 2017				
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	Q.A						
			WEIGHT:		SCALE:1:15	SHEET 3 OF 7	
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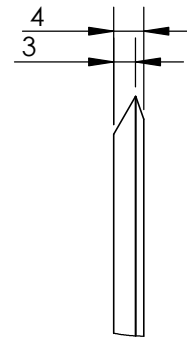
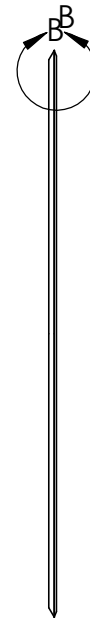
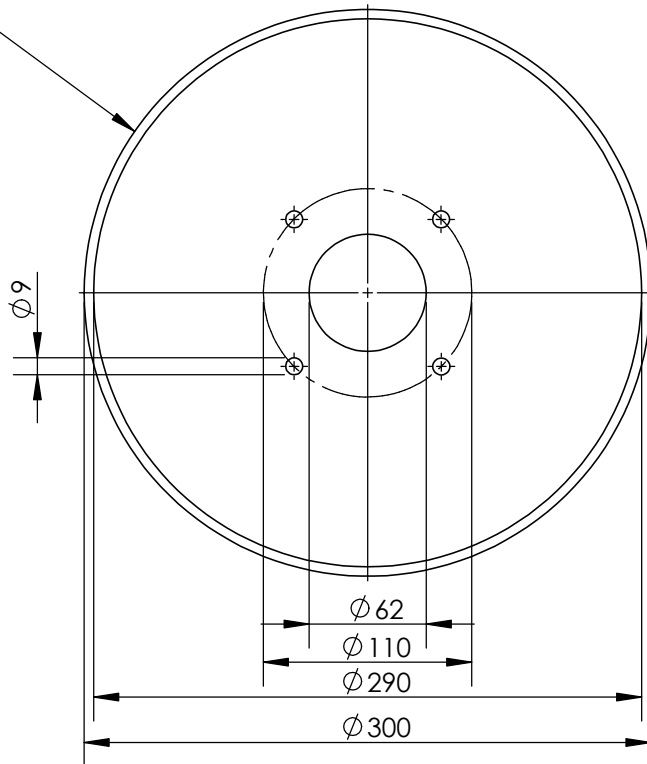




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D					D
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					DO NOT SCALE DRAWING
					REVISION
					Department of Agricultural Engineering
					TITLE:
					3-Ground Wheel Right Side
					DWG NO.
					Assemble of Ground wheel
					A4
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				SHEET 1 OF 7	
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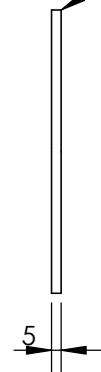
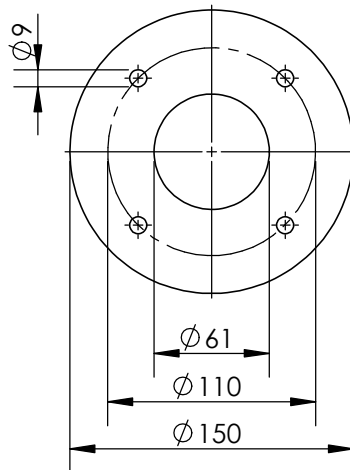
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3.3				Part No.3				50 x 3				1			
3.4				Part No.4				30x30x2.5x340				1			
3.5				Part No.5				od30 x id14 x 50				1			
3.6				Part No.6				M8 x 1.25 x 25				4			
3.7				Part No.7				M12 x 1.75 x 50				1			
3.8				Part No.8, M12x85				M12 x 1.75 x 85				1			
3.9				Part No.9				Ø 30 x 116				1			
3.10				Part No.10				25 x 30 x 40				1			
3.11				Part No.11				Ø 21 x 335				1			
3.12				Part No. 12, Assem with 2 rollers bearing				30 x 52 x 8				1			
3.13				Part No.13				12 x 50 x 100				1			
3.13.1				Roller Bearing No.30205				25 x 53 x 16.25				1			
3.13.2				Roller Bearing No.30304				20 x 52 x 14.25				1			
3.13.3				Seal: Ø 30x52x7				Ø 30x52x7				1			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:				DEBURR AND BREAK SHARP EDGES				DO NOT SCALE DRAWING			
												REVISION			
Department of Agricultural Engineering															
TITLE: 3-Ground Wheel Right Side															
DWG NO. Ground wheel (Exploded View)															
A4															
WEIGHT: SCALE:1:6 SHEET 2 OF 7															

3.1



DETAIL B
SCALE:1:1

3.2



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

3-Ground Wheel Right Side

DWG NO.

Parts No.1 &No.2

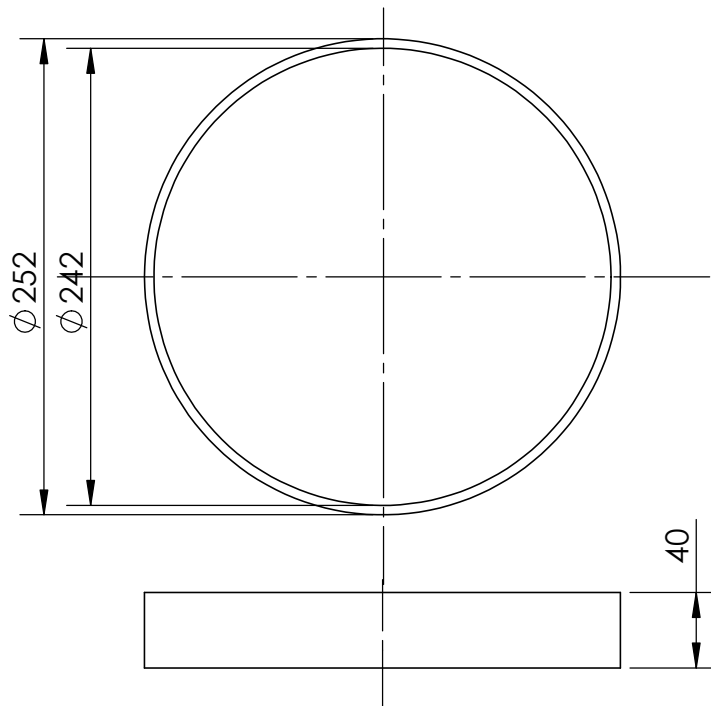
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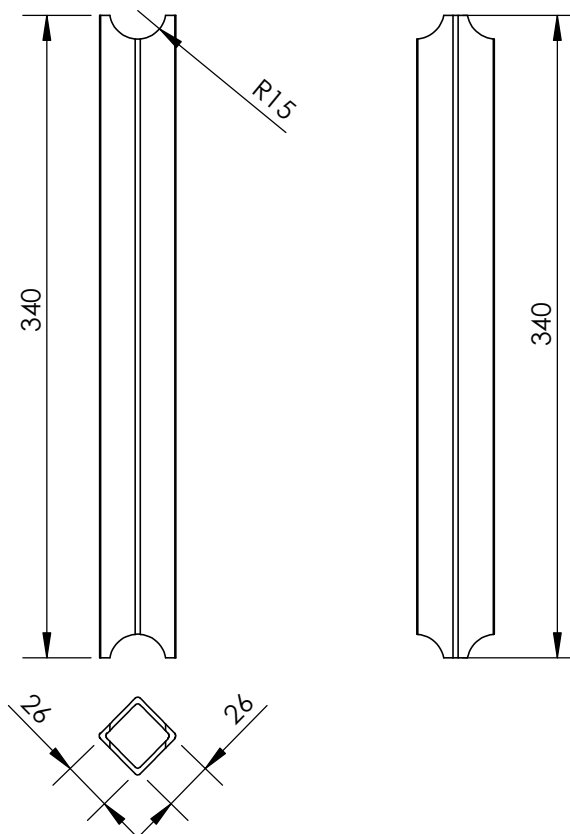
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SHEET 3 OF 7

3.3



3.4



UNLESS OTHERWISE SPECIFIED:
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SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

3-Ground Wheel Right Side

DWG NO.

Parts No.3 & No.4

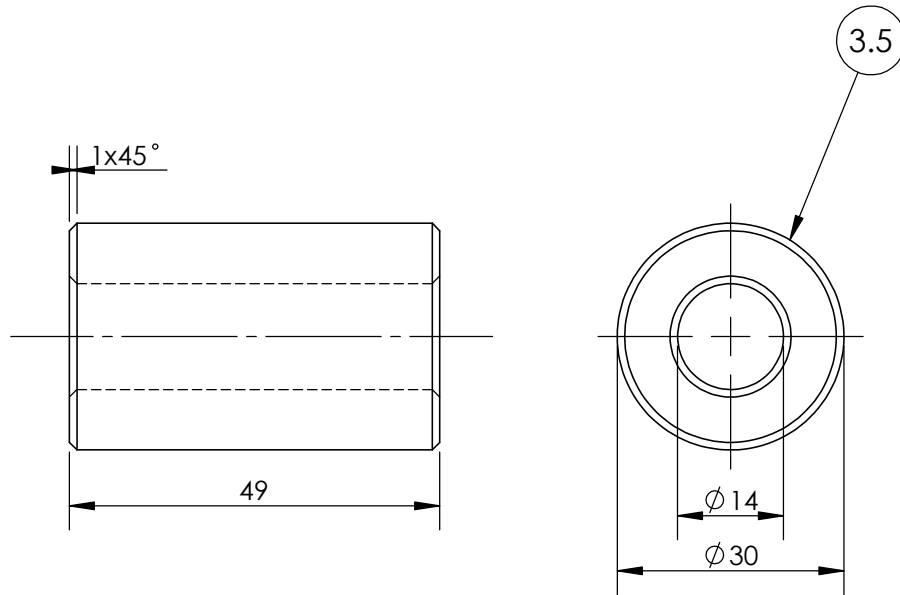
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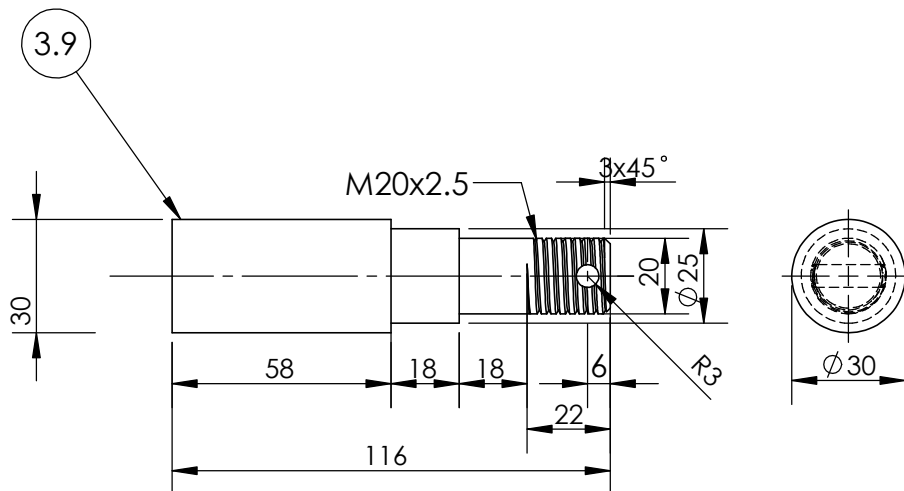
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SHEET 4 OF 7

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DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL: Mild Steel		
Q.A						



Scale 1:1



Scale 1:2

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

3-Ground Wheel Right Side

DWG NO.

Parts No.5 & No.9

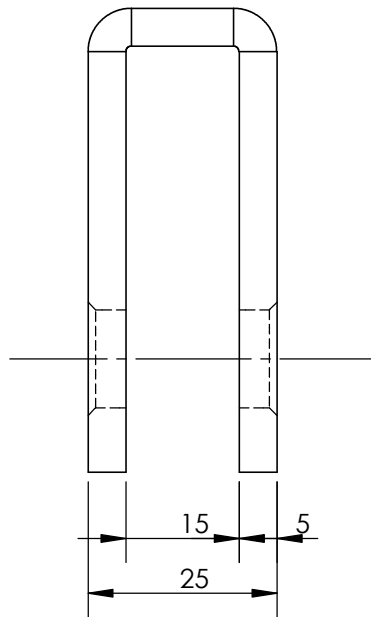
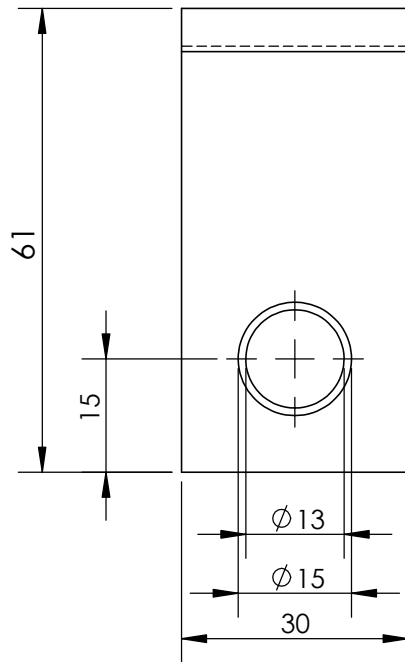
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WEIGHT:

SCALE

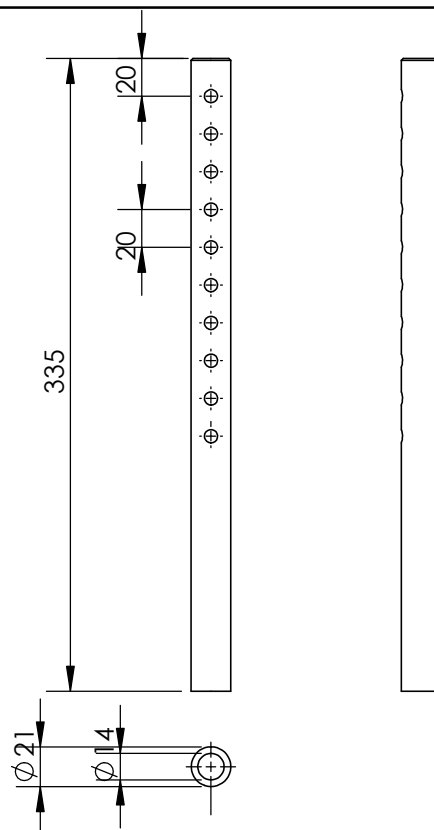
SHEET 5 OF 7

3.10



Scale 1:1

3.11



Scale 1:4

UNLESS OTHERWISE SPECIFIED:
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SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

3-Ground Wheel Right Side

DWG NO.

Parts No.10 & No.11

A4

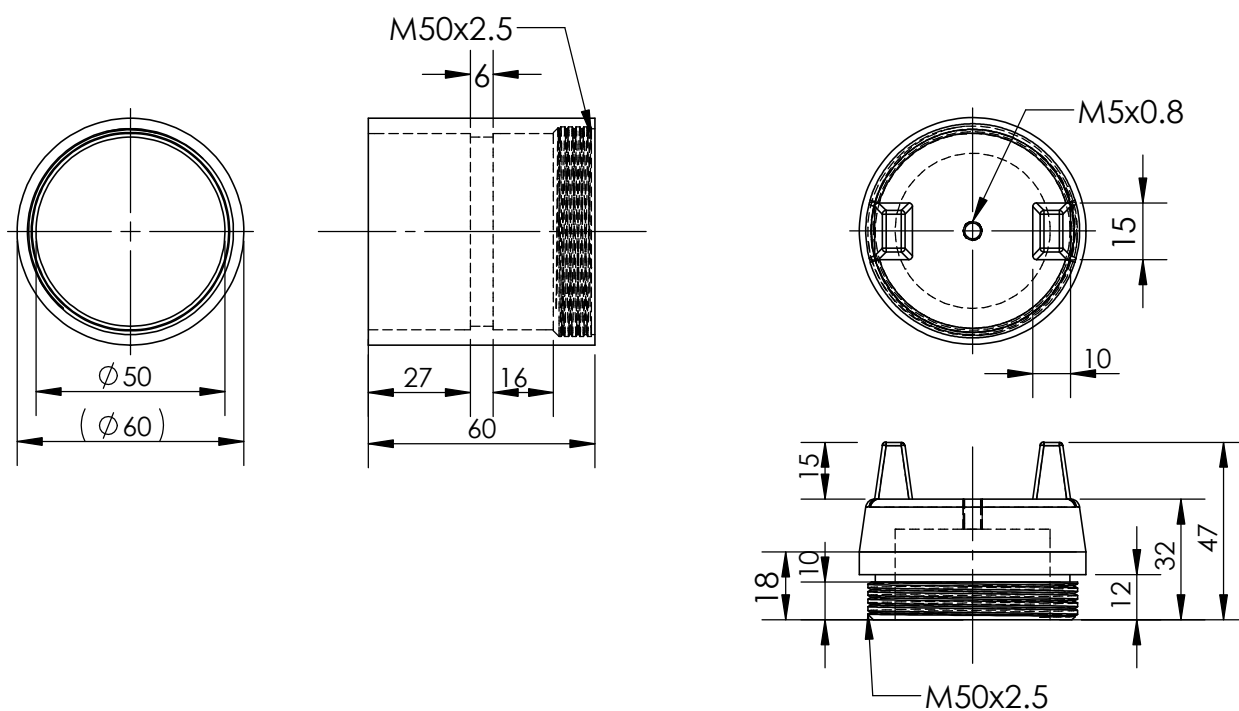
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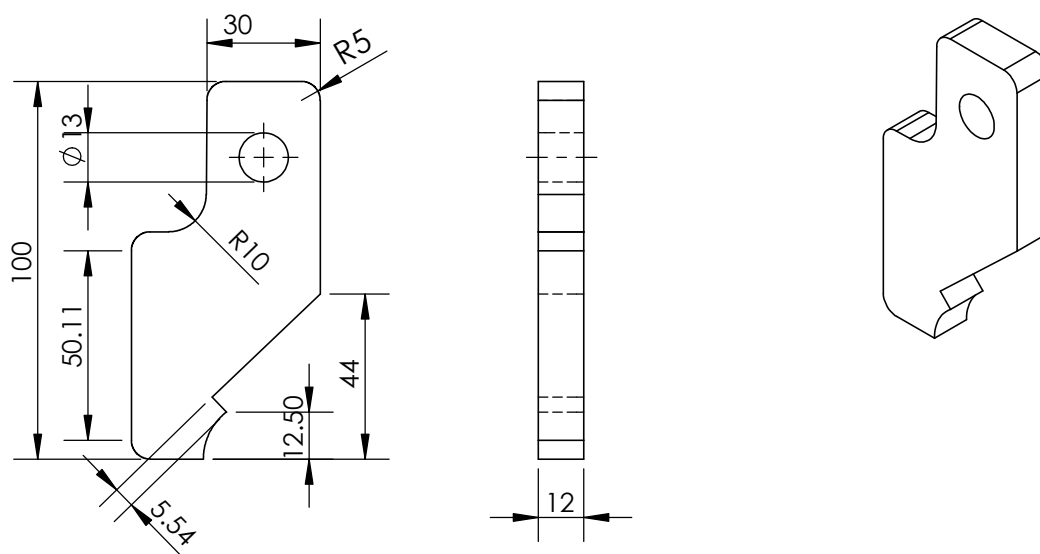
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Scale 1:2



3.13

Scale 1:2



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

3-Ground Wheel Right Side

DWG NO.

Parts No.12 &No13

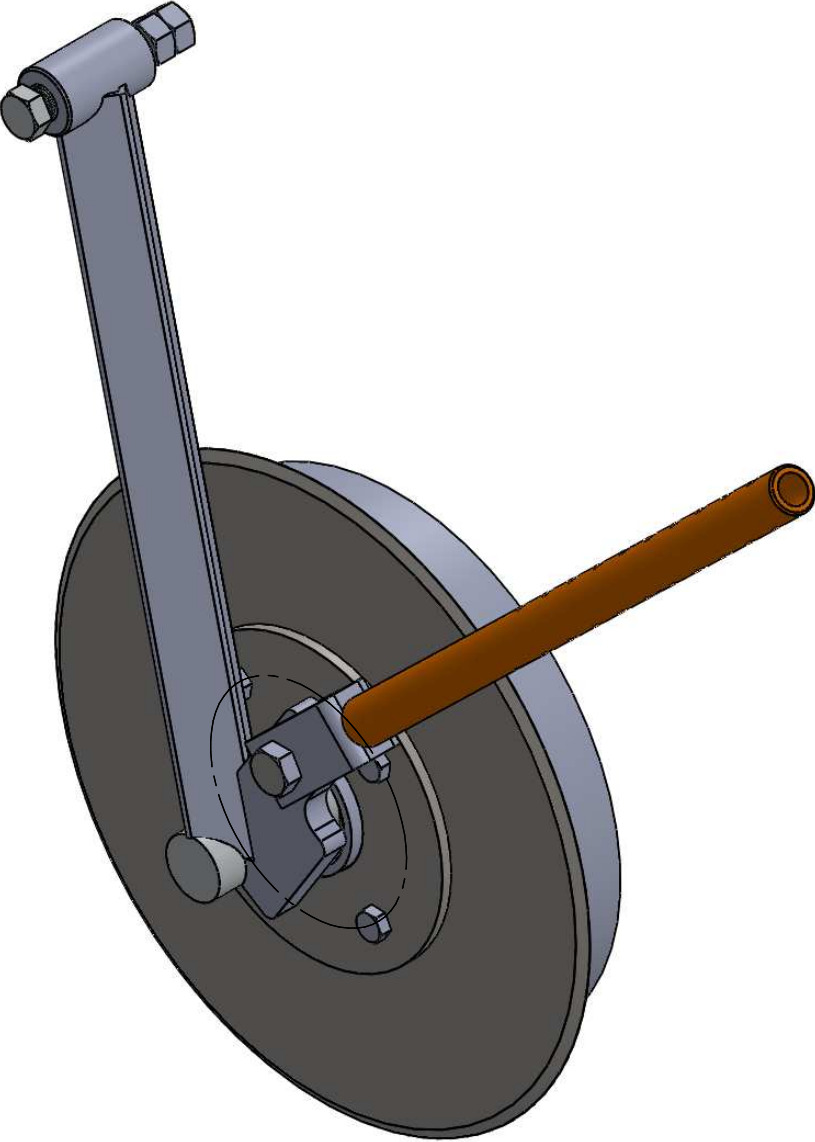
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SCALE

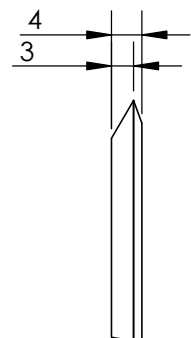
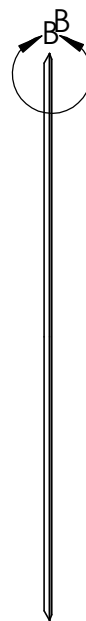
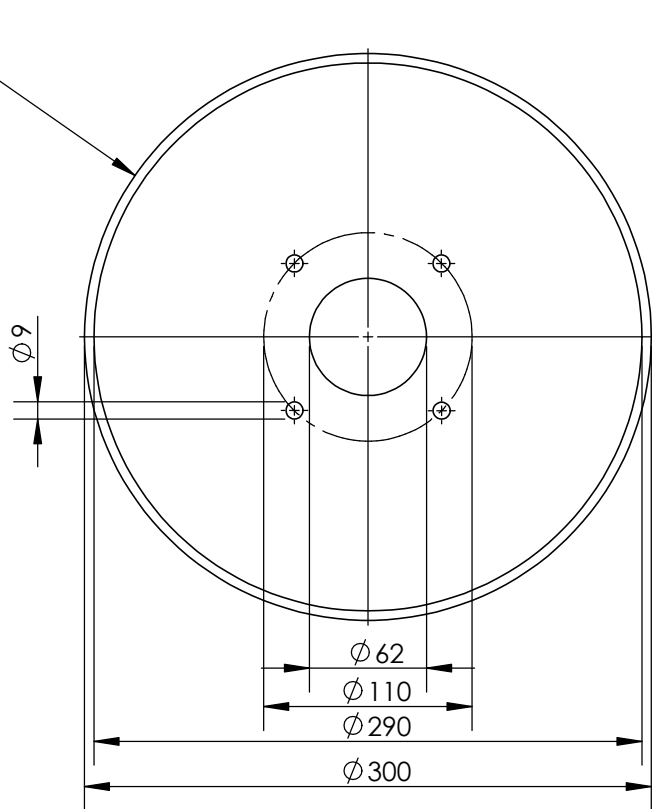
SHEET 7 OF 7

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														Department of Agricultural Engineering																																																																																	
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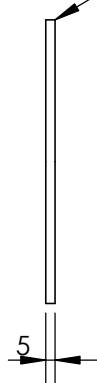
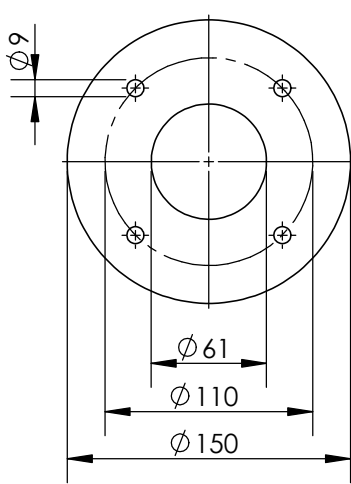
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4.13.2	Roller bearing No.30304	20 x 52 x 14.25	1																																																																					
4.13.3	Seal: Ø30x52x7	Ø30x52x7	1																																																																					
B	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td rowspan="3" style="width:20%;"> <small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small> </td> <td style="width:20%;">FINISH:</td> <td style="width:20%;">DEBURR AND BREAK SHARP EDGES</td> <td style="width:20%;">DO NOT SCALE DRAWING</td> <td style="width:20%;">REVISION</td> </tr> <tr> <td colspan="4" style="text-align: center;">Department of Agricultural Engineering</td> </tr> <tr> <td colspan="4" style="text-align: center;"> <div style="display: flex; justify-content: space-between;"> <div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">NAME</th> <th style="width:15%;">SIGNATURE</th> <th style="width:15%;">DATE</th> </tr> <tr><td>DRAWN</td><td>Ho Doremy</td><td>Aug 09, 2017</td></tr> <tr><td>CHK'D</td><td>Pen Nov</td><td>Aug 20, 2017</td></tr> <tr><td>CHK'D</td><td>Seng Savath</td><td>Aug 20, 2017</td></tr> <tr><td>APPV'D</td><td>Chan Saruth</td><td>Aug 25, 2017</td></tr> <tr><td>MFG</td><td></td><td></td></tr> <tr><td>Q.A</td><td></td><td></td></tr> </table> </div> <div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">MATERIAL: Mild Steel</td> <td style="width:50%;">DWG NO.</td> </tr> <tr> <td></td> <td style="text-align: center;">Ground wheel (Exploded View)</td> </tr> <tr> <td></td> <td style="text-align: right;">A4</td> </tr> </table> </div> </div> </td> </tr> <tr> <td colspan="2">WEIGHT:</td> <td>SCALE:1:6</td> <td colspan="2">SHEET 2 OF 7</td> </tr> </table>				<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small>	FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	Department of Agricultural Engineering				<div style="display: flex; justify-content: space-between;"> <div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:10%;">NAME</th> <th style="width:15%;">SIGNATURE</th> <th style="width:15%;">DATE</th> </tr> <tr><td>DRAWN</td><td>Ho Doremy</td><td>Aug 09, 2017</td></tr> <tr><td>CHK'D</td><td>Pen Nov</td><td>Aug 20, 2017</td></tr> <tr><td>CHK'D</td><td>Seng Savath</td><td>Aug 20, 2017</td></tr> <tr><td>APPV'D</td><td>Chan Saruth</td><td>Aug 25, 2017</td></tr> <tr><td>MFG</td><td></td><td></td></tr> <tr><td>Q.A</td><td></td><td></td></tr> </table> </div> <div> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">MATERIAL: Mild Steel</td> <td style="width:50%;">DWG NO.</td> </tr> <tr> <td></td> <td style="text-align: center;">Ground wheel (Exploded View)</td> </tr> <tr> <td></td> <td style="text-align: right;">A4</td> </tr> </table> </div> </div>				NAME	SIGNATURE	DATE	DRAWN	Ho Doremy	Aug 09, 2017	CHK'D	Pen Nov	Aug 20, 2017	CHK'D	Seng Savath	Aug 20, 2017	APPV'D	Chan Saruth	Aug 25, 2017	MFG			Q.A			MATERIAL: Mild Steel	DWG NO.		Ground wheel (Exploded View)		A4	WEIGHT:		SCALE:1:6	SHEET 2 OF 7																								
	<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small>	FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION																																																																		
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MATERIAL: Mild Steel	DWG NO.																																																																							
	Ground wheel (Exploded View)																																																																							
	A4																																																																							
WEIGHT:		SCALE:1:6	SHEET 2 OF 7																																																																					
A				A																																																																				
4	3	2	1																																																																					

4.1



DETAIL B
SCALE:1:1

4.2



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

4-Ground Wheel Left Side

DWG NO.

Parts No.1 &No.2

A4

WEIGHT:

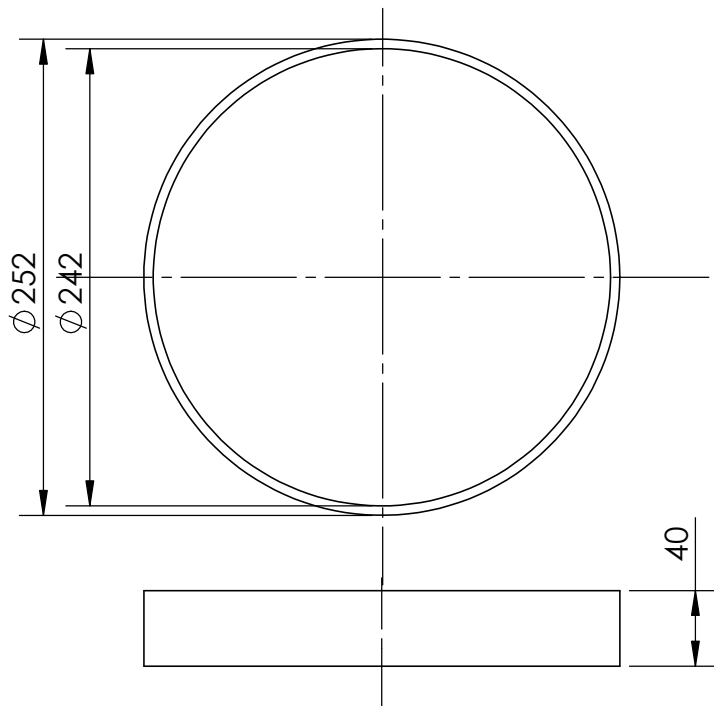
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SHEET 3 OF 7

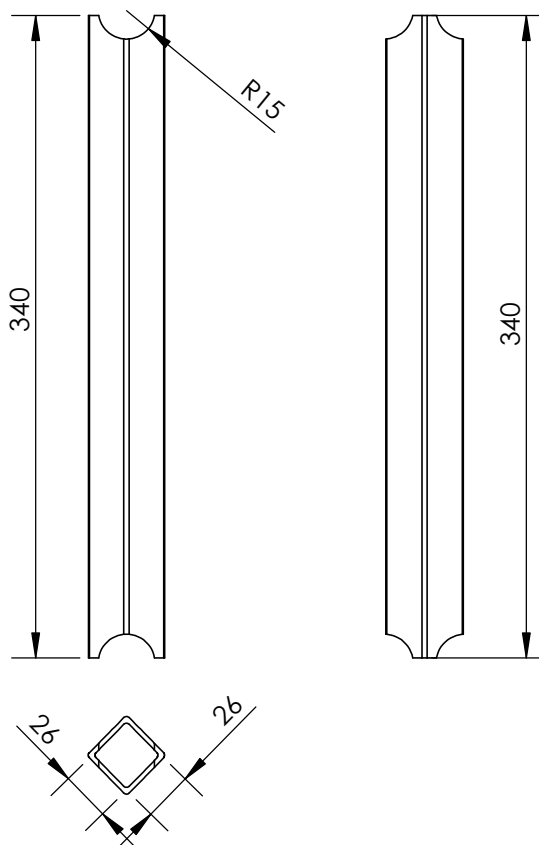
NAME	SIGNATURE	DATE
DRAWN Ho Doremy		Aug 09, 2017
CHK'D Pen Nov		Aug 20, 2017
CHK'D Seng Savath		Aug 20, 2017
APPV'D Chan Saruth		Aug 25, 2017
MFG		
Q.A		

MATERIAL: Mild Steel

4.3



4.4



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

4-Ground Wheel Left Side

DWG NO.

Parts No.3 &No.4

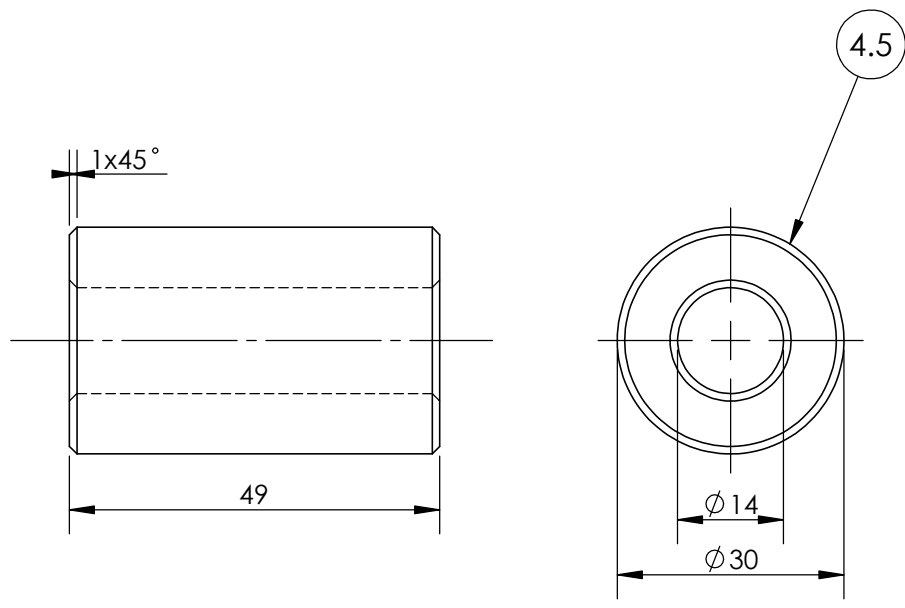
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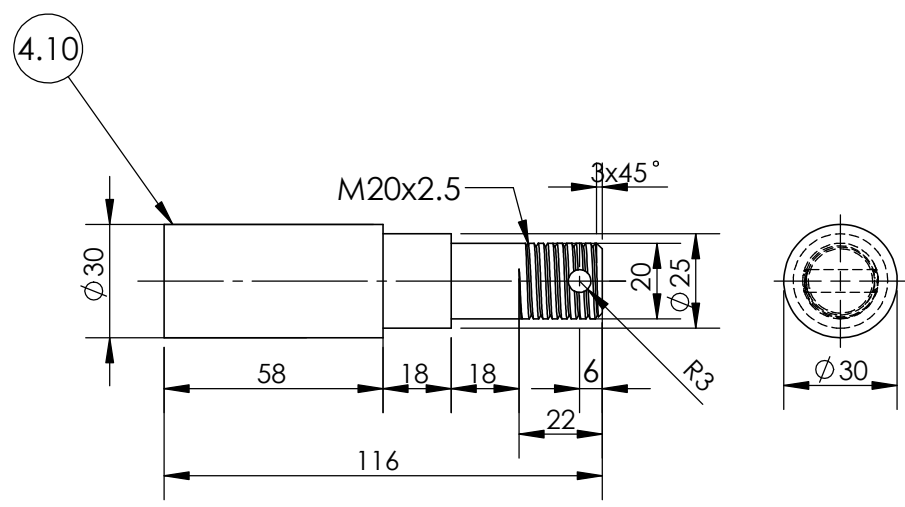
SCALE: 1:4

SHEET 4 OF 7

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL: Mild Steel		
Q.A						



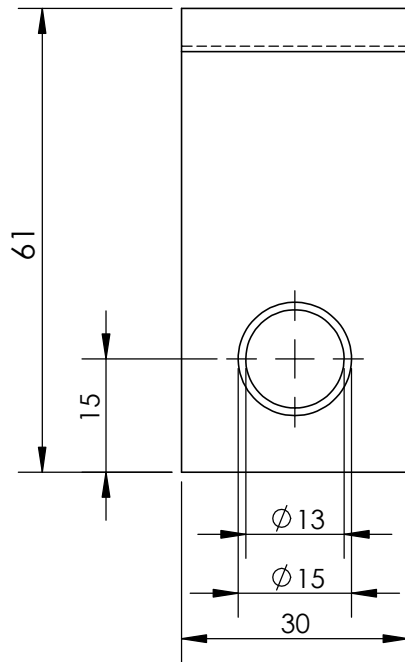
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Scale 1:2

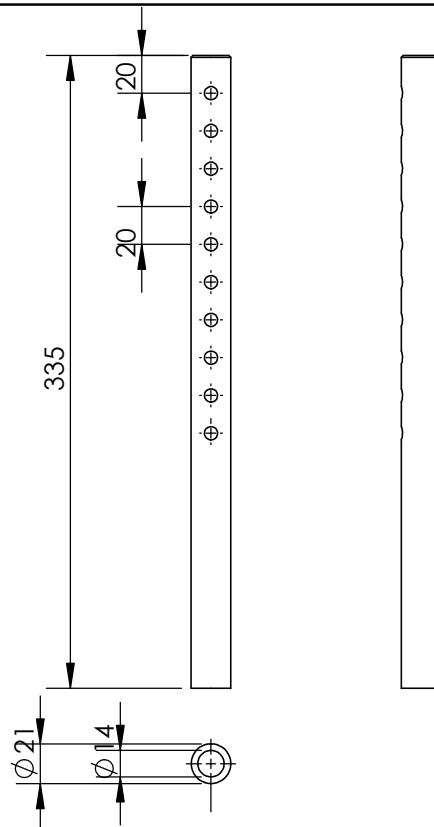
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION																																																													
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										NAME	SIGNATURE	DATE																																																											
DRAWN	Ho Doremy		Aug 09, 2017																																																																				
CHK'D	Pen Nov		Aug 20, 2017																																																																				
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MFG																																																																							
Q.A																																																																							
MATERIAL: Mild Steel						SCALE				SHEET 5 OF 7																																																													
WEIGHT:																																																																							

4.8



Scale 1:1

4.9



Scale 1:4

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

4-Ground Wheel Left Side

DWG NO.

Parts No.8 &No.9

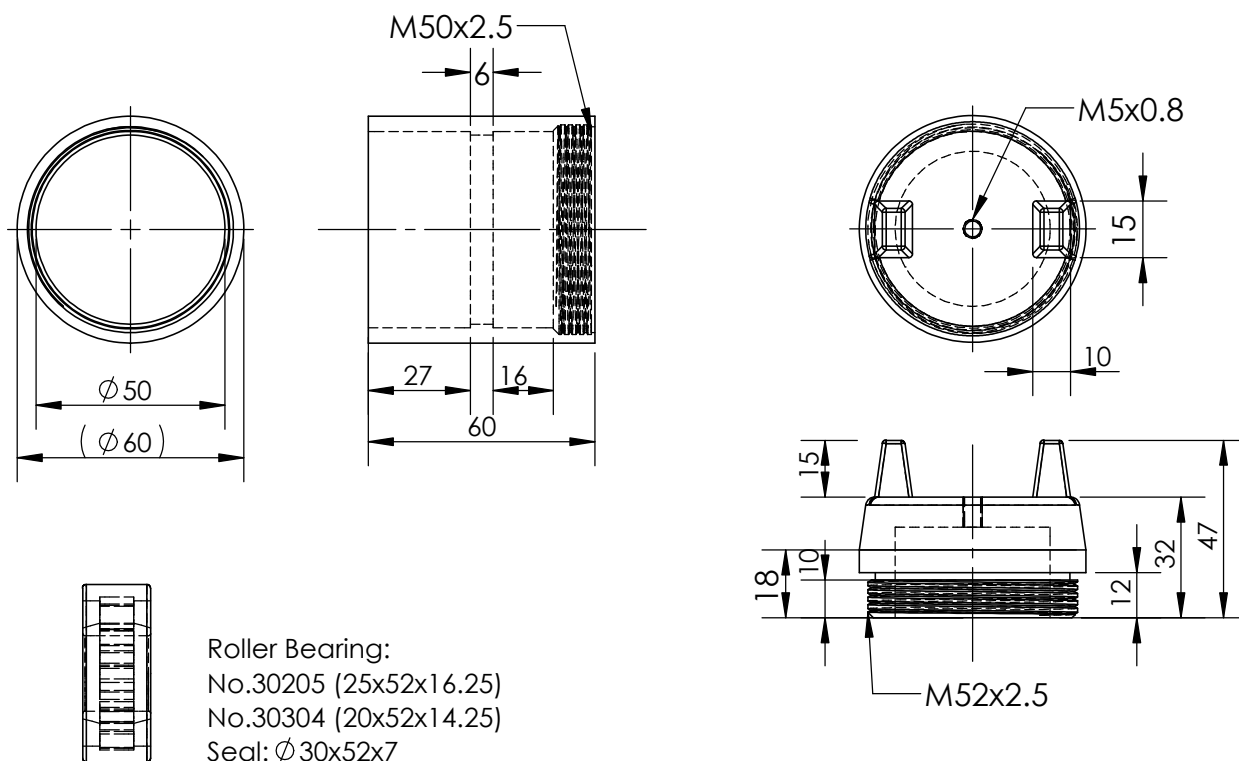
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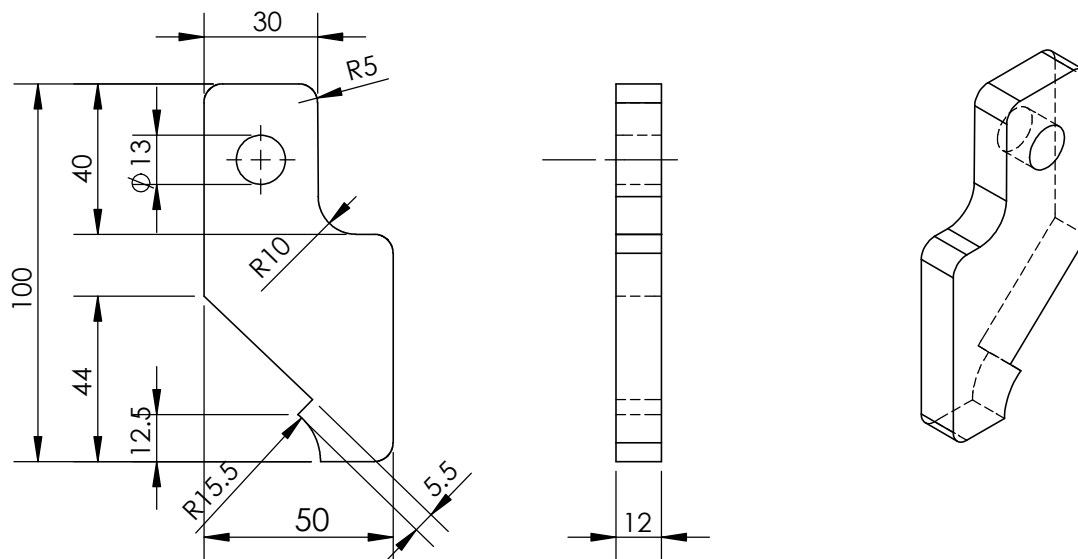
SCALE

SHEET 6 OF 7

4.13



4.12



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

4-Ground Wheel Left Side

DWG NO.

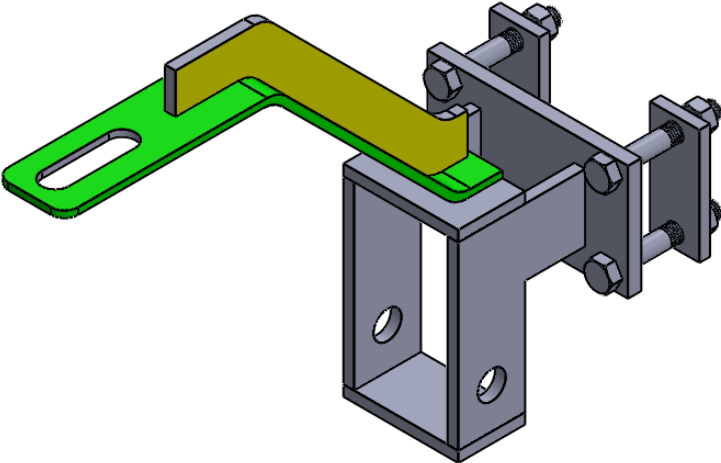
Parts No.12 & No13

A4

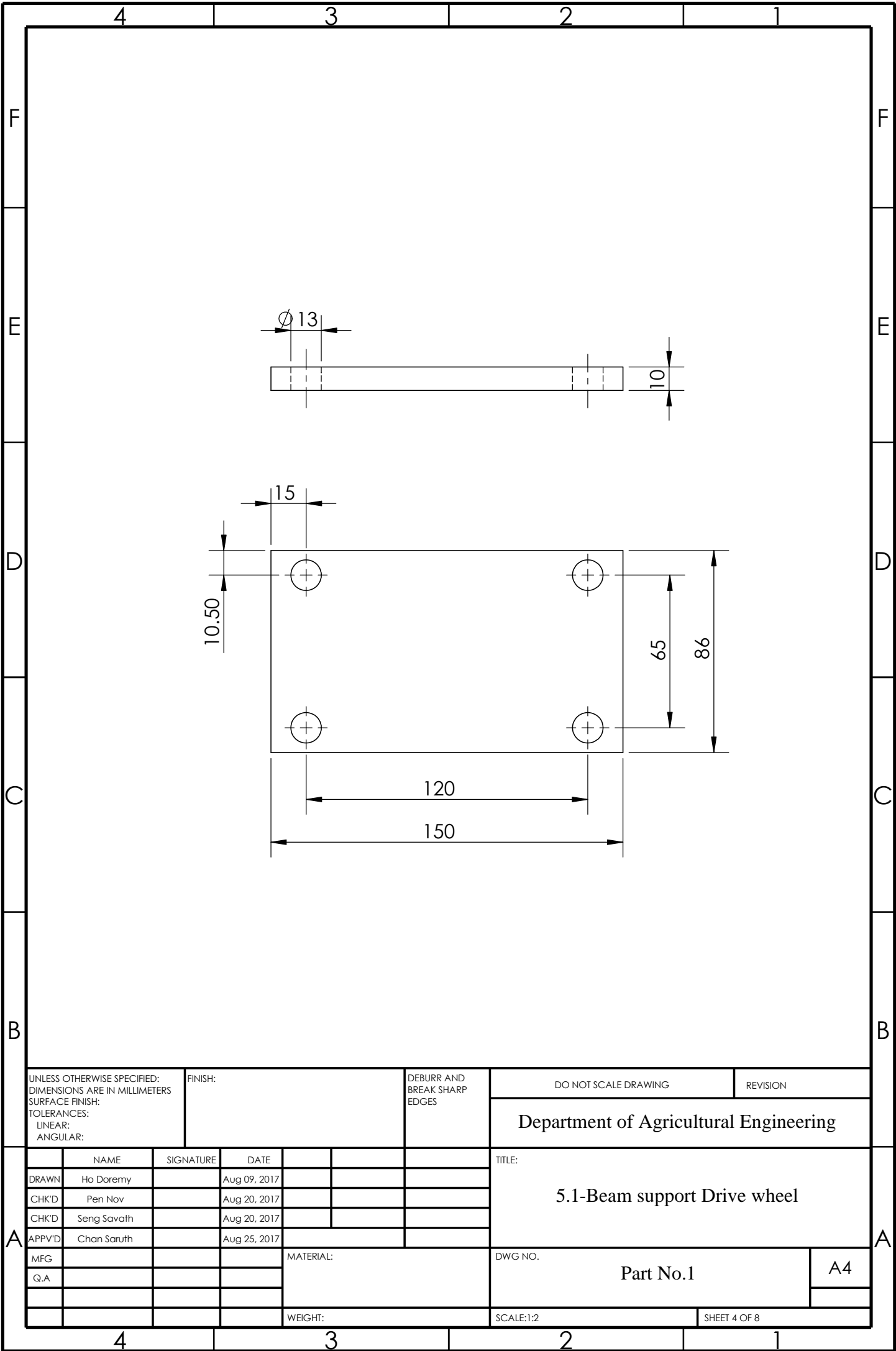
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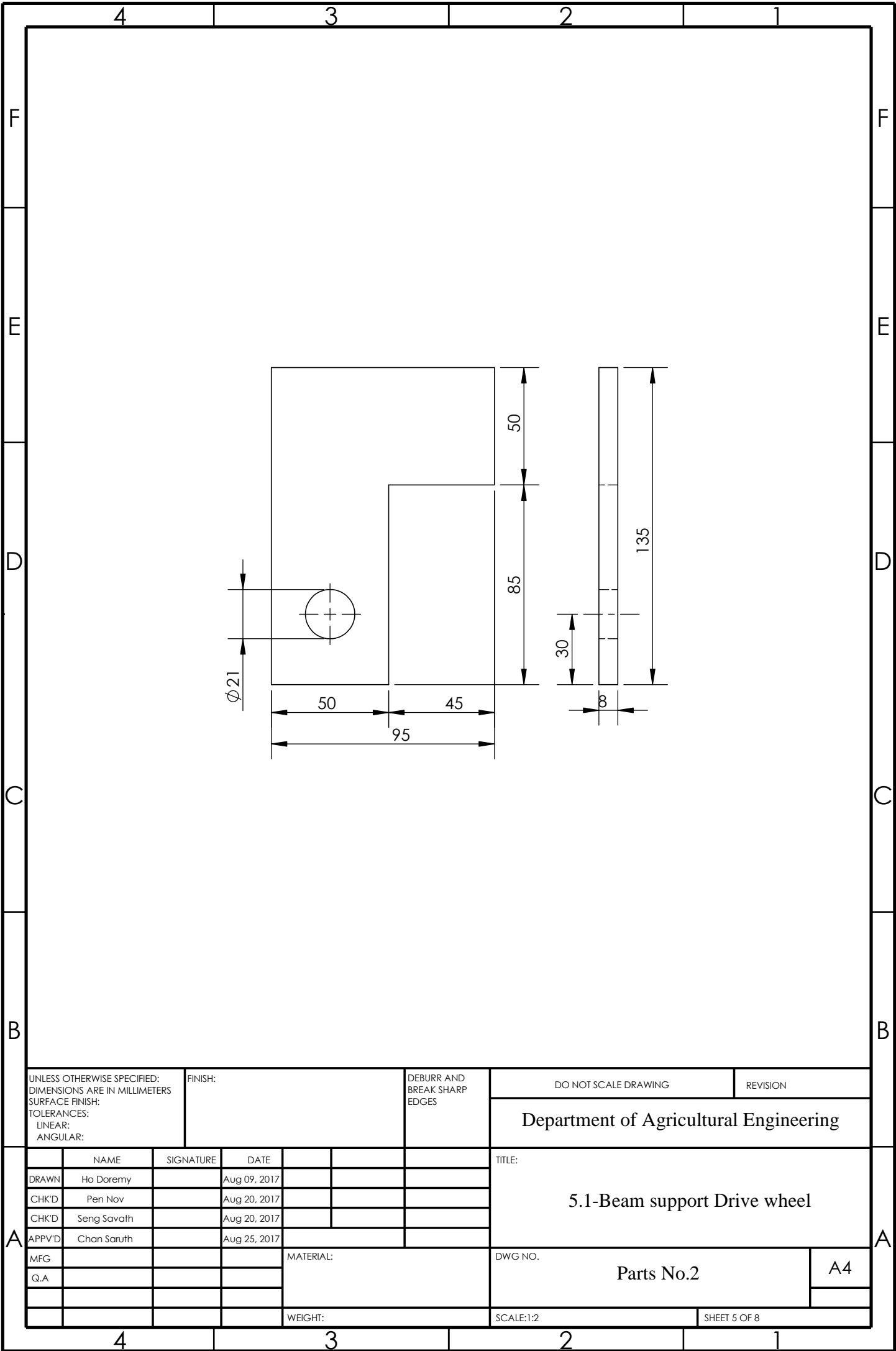
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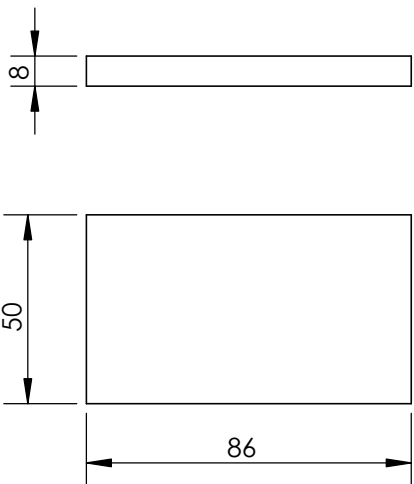
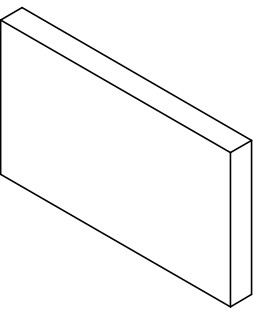
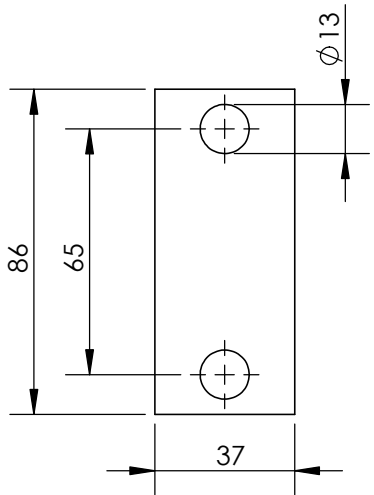
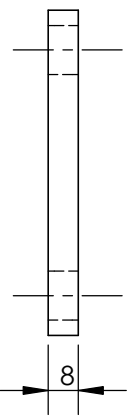
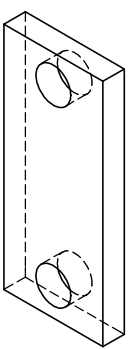
SHEET 7 OF 7

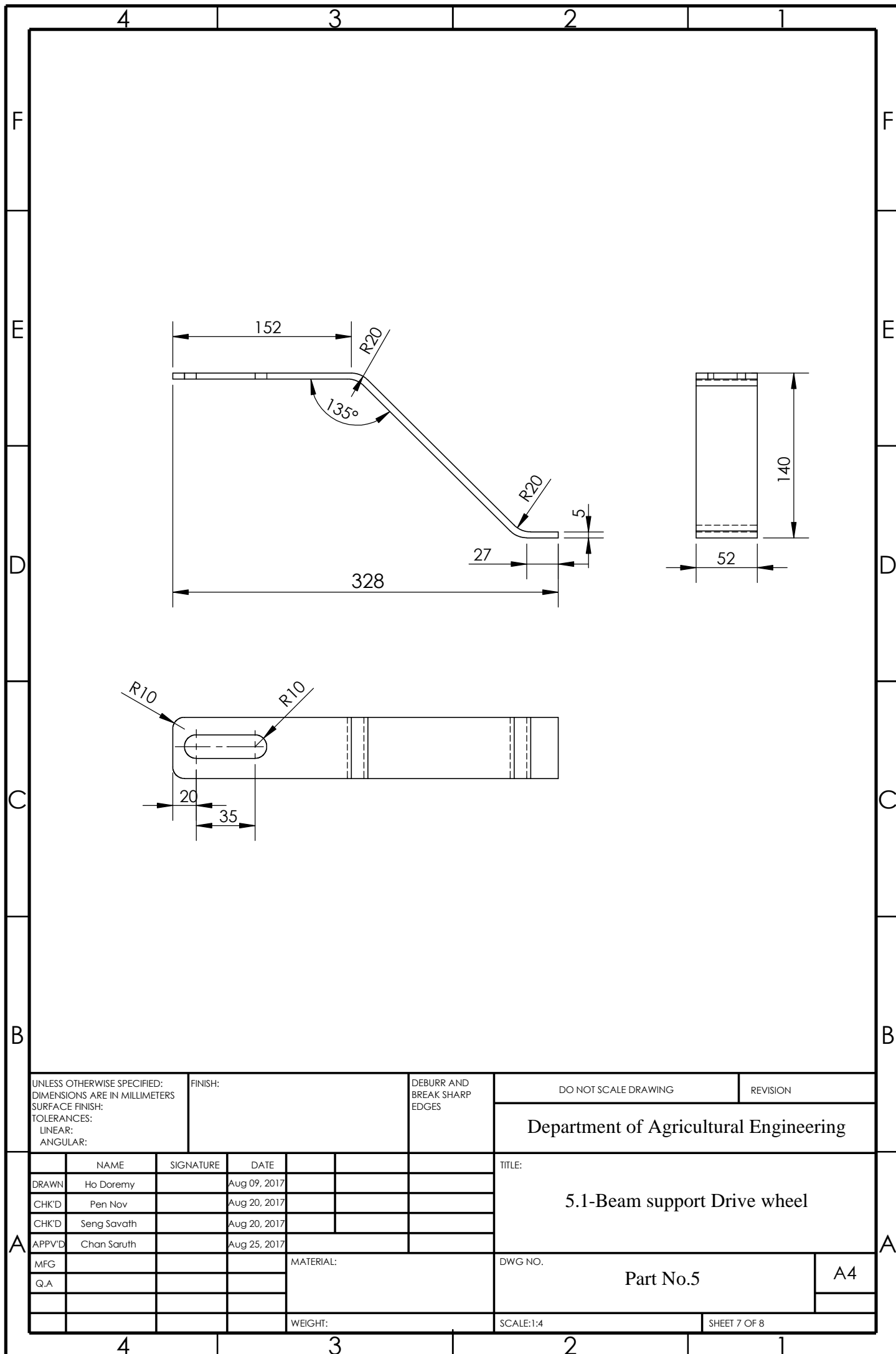
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E						E	
D						D	
C						C	
B						B	
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						Department of Agricultural Engineering	
		NAME	SIGNATURE	DATE		TITLE: 5.1-Beam support Drive wheel	
	DRAWN	Ho Doremy		Aug 09, 2017			
	CHK'D	Pen Nov		Aug 20, 2017			
	CHK'D	Seng Savath		Aug 20, 2017			
	APPV'D	Chan Saruth		Aug 25, 2017			
	MFG				MATERIAL: Mild Steel	DWG NO.	A4
	Q.A						
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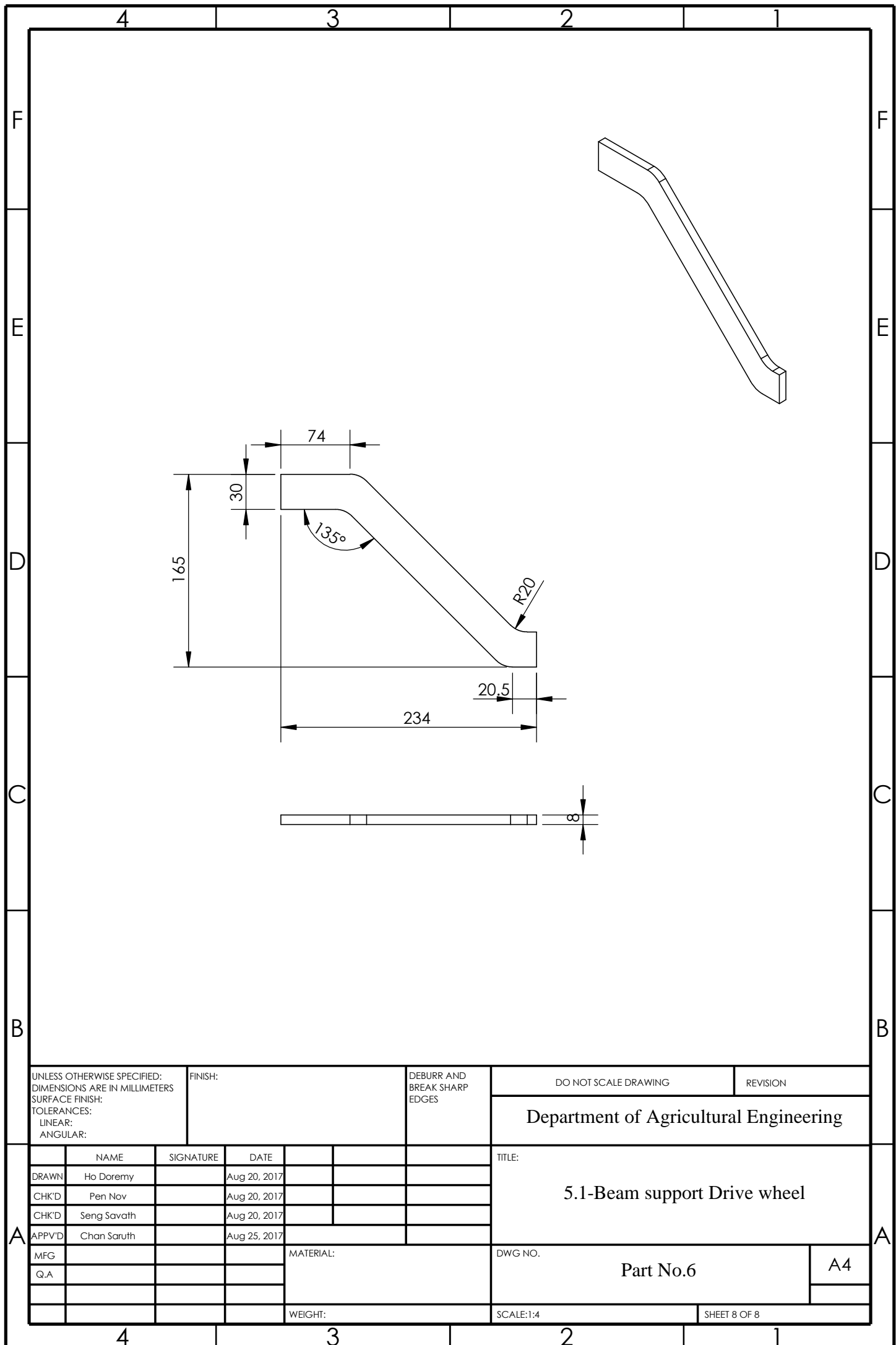
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E							E				
D							D				
C							C				
B							B				
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								Department of Agricultural Engineering			
								TITLE: 5.1-Beam support Drive wheel			
	DRAWN			Ho Doremy							
	CHK'D			Pen Nov							
	CHK'D			Seng Savath							
	APPV'D			Chan Saruth		Aug 25, 2017					
	MFG							MATERIAL: Mild Steel		DWG NO.	
	Q.A									Schematic Diagram of Beam Support	
										A4	
							WEIGHT:		SCALE:1:8		
									SHEET 3 OF 8		
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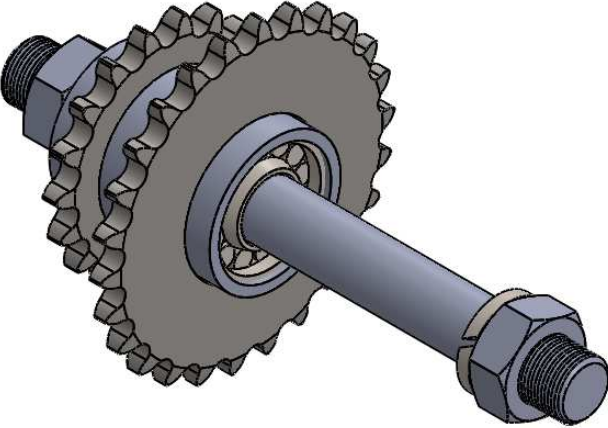


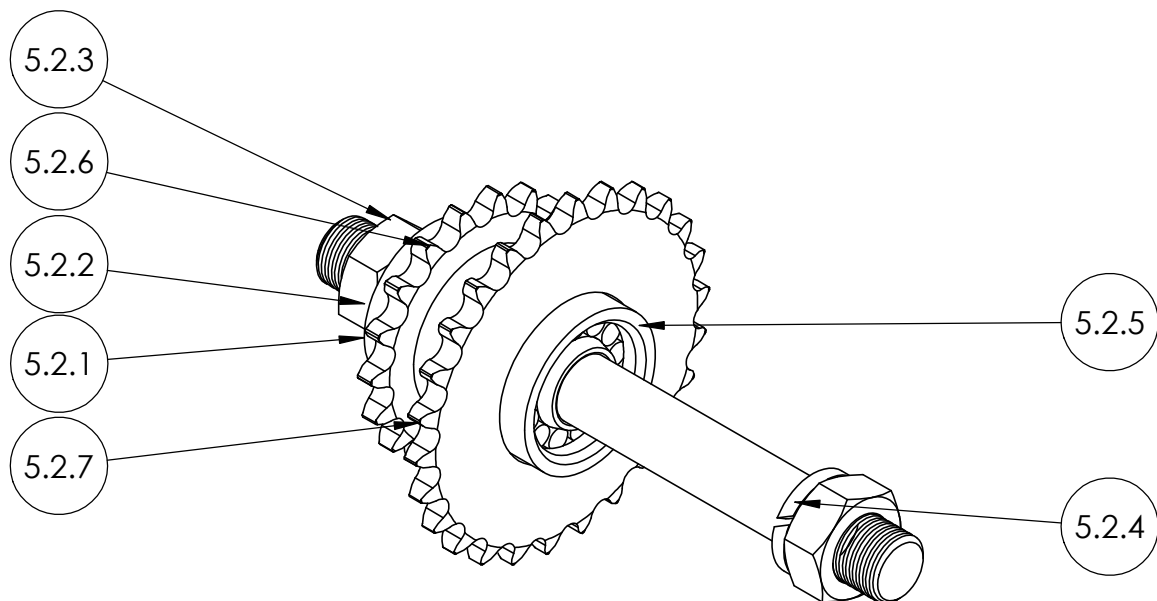


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E				E			
D				D			
C	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>			C			
B				B			
A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
					Department of Agricultural Engineering		
	DRAWN	NAME	SIGNATURE	DATE	5.1-Beam support Drive wheel		
		Ho Doremy		Aug 09, 2017			
	CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017				
APPV'D	Chan Saruth		Aug 25, 2017	Parts No.3&No.4		A4	
MFG							MATERIAL:
Q.A							
				WEIGHT:	SCALE:1:2	SHEET 6 OF 8	
4	3	2	1				



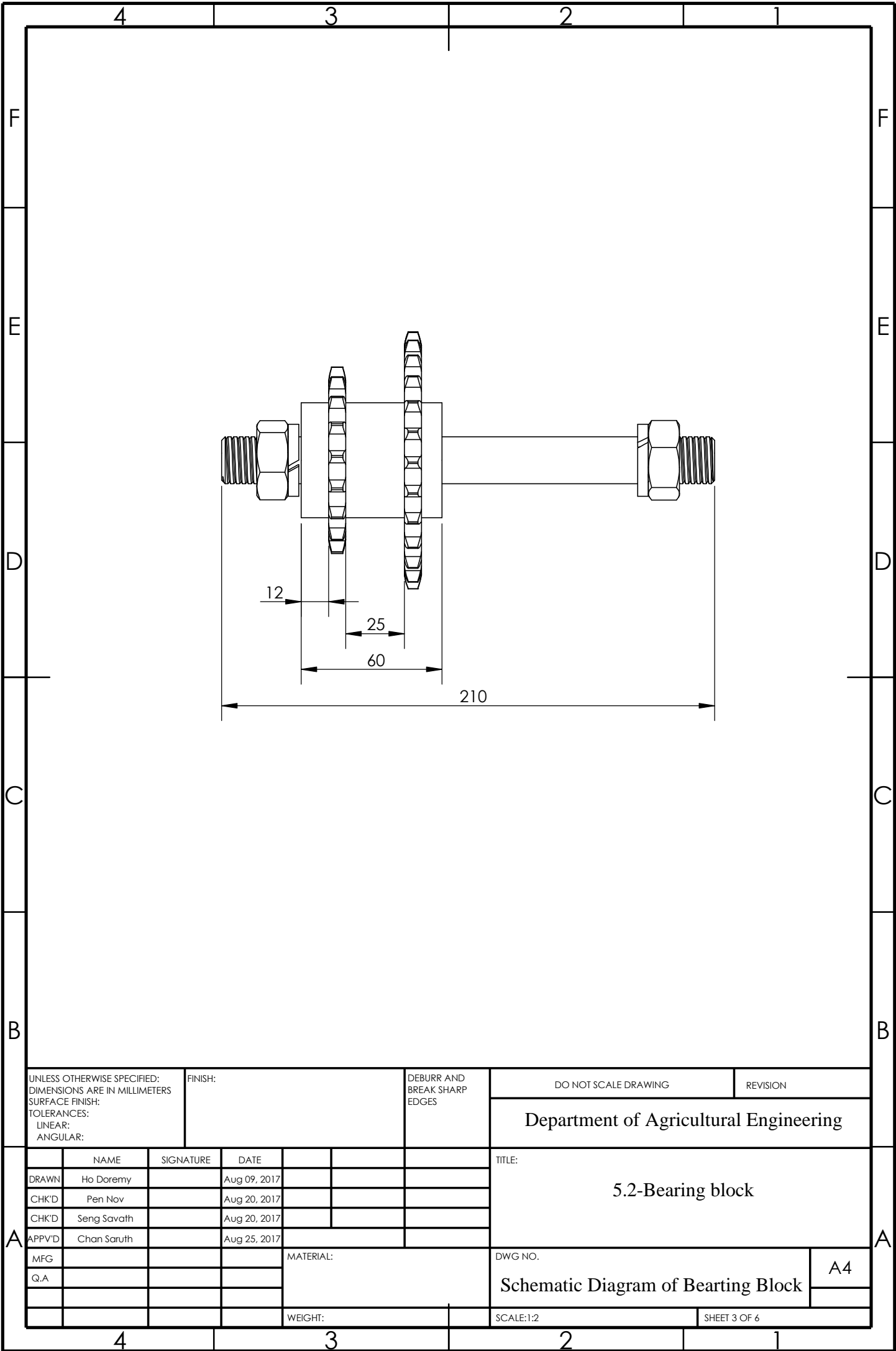


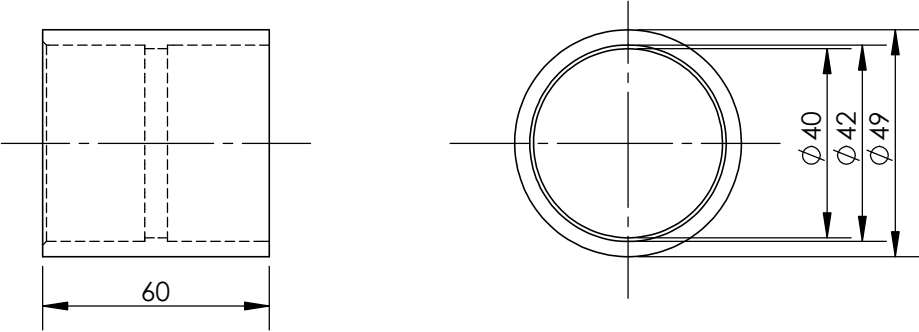
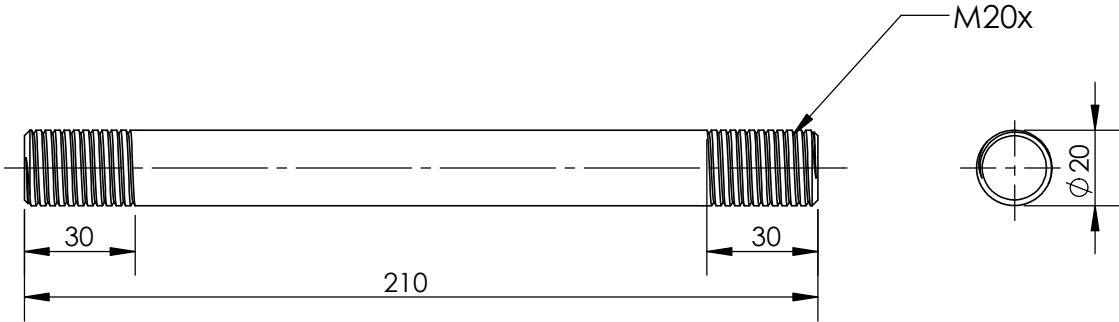
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E					E
D					D
C					C
B					B
A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES
					DO NOT SCALE DRAWING
					REVISION
					Department of Agricultural Engineering
					TITLE:
					5.2-Bearing block
					DWG NO.
					Assemble of Bearing block
					A4
					SCALE:1:2
				SHEET 1 OF 6	
	4	3	2	1	

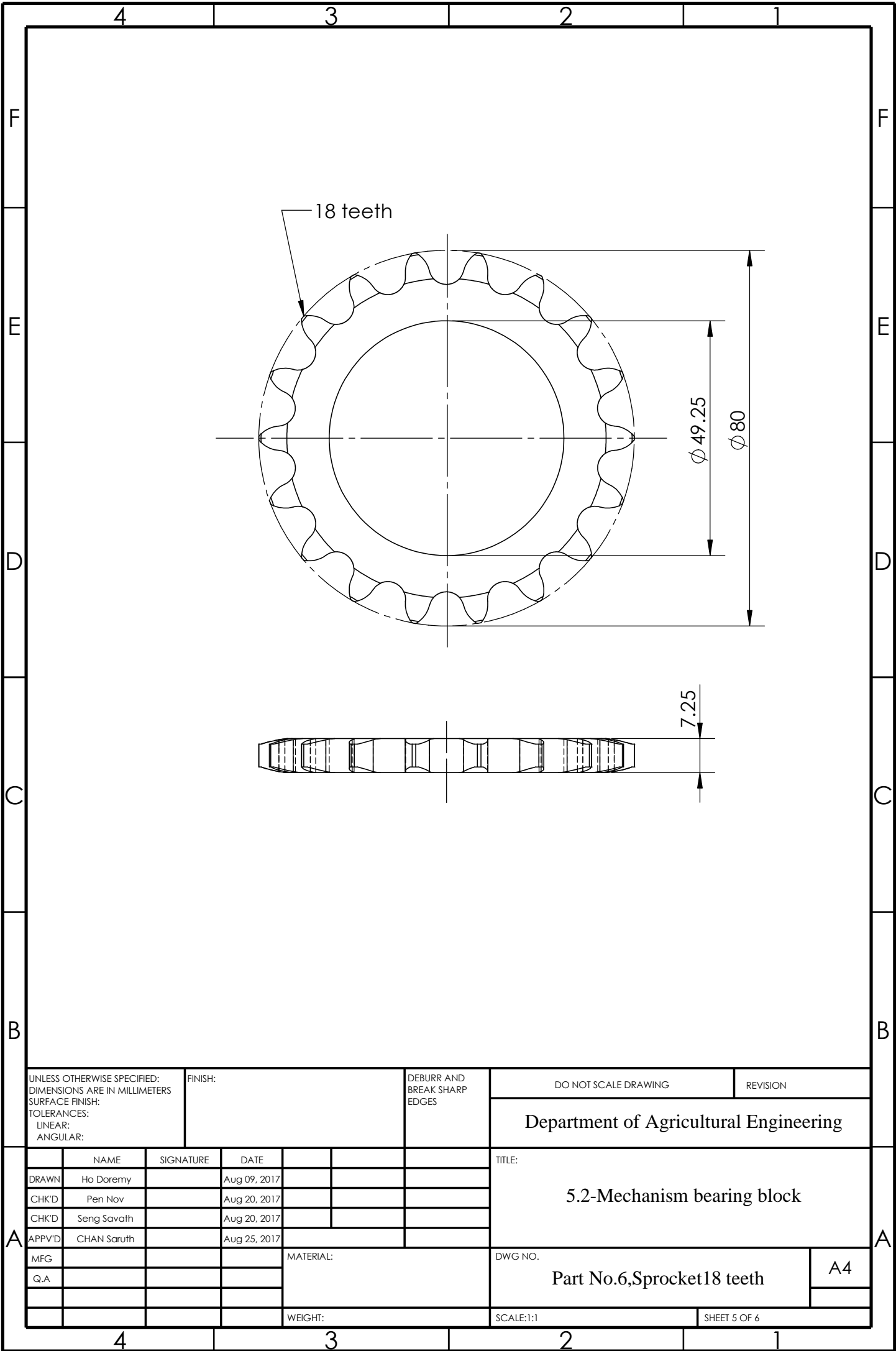


ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5.2.1	Part No.1		1
5.2.2	Part No.2, M20 x	Thread both side of sheft	1
5.2.3	Part No.3, Nut M20	M20 x 2.5	2
5.2.4	Part No.4, Washer (IS 6735- 20)	M20 x 2.5	2
5.2.5	Part No.5, Rolling bearings No.6004RS	20 x 42 x 12	2
5.2.6	Part No.6, Sprocket	18 teetch	1
5.2.7	Part No.7, Sprocket	26 teetch	1

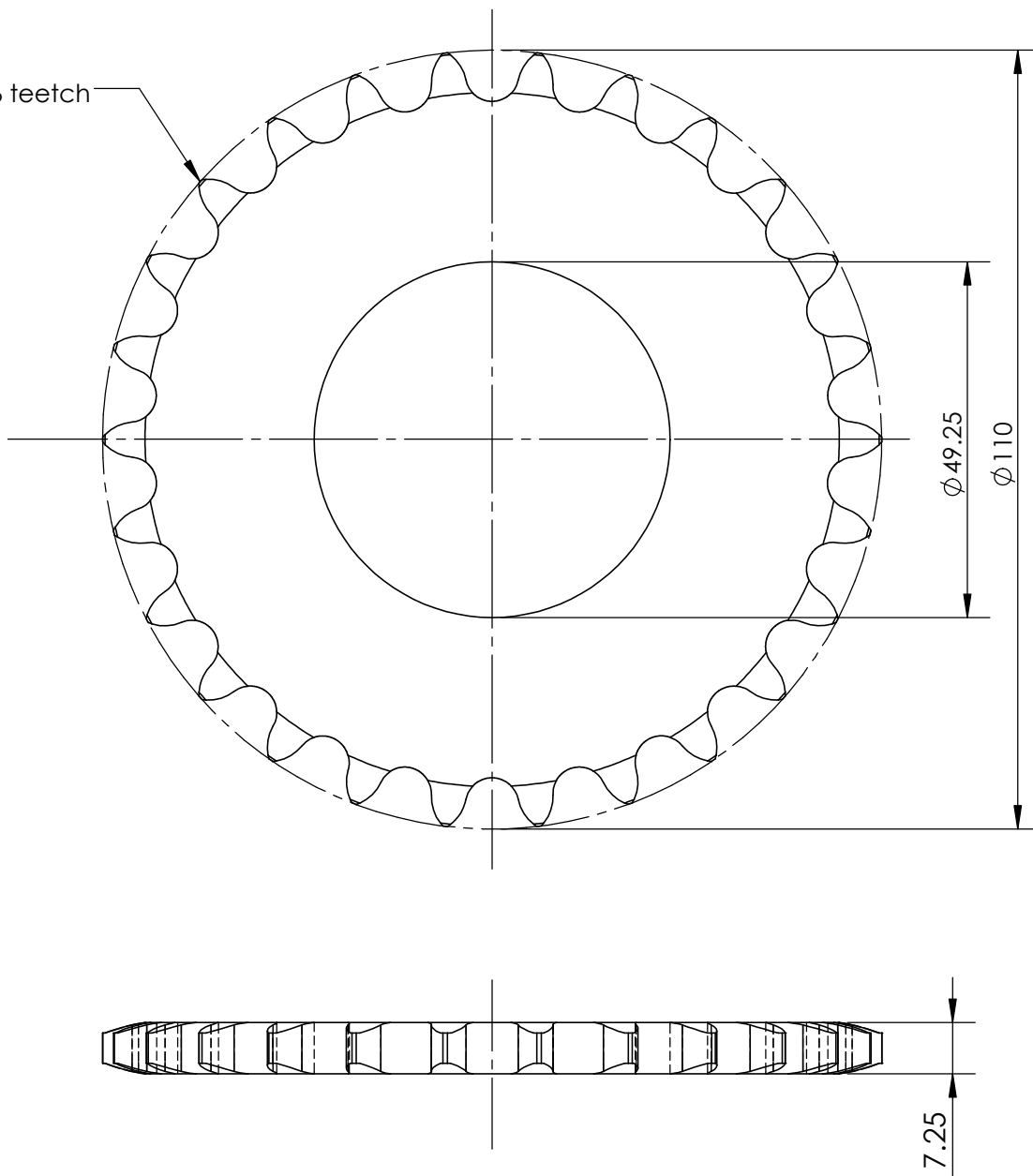
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
Department of Agricultural Engineering									
NAME		SIGNATURE		DATE		TITLE:			
DRAWN Ho Doremy				Aug 09, 2017		5.2-Bearing block			
CHK'D Pen Nov				Aug 20, 2017					
CHK'D Seng Savath				Aug 20, 2017					
APPV'D Chan Saruth				Aug 25, 2017					
MFG						MATERIAL:		DWG NO.	
Q.A								Assemble of Bearing block	
								A4	
						WEIGHT:		SCALE:1:2	
								SHEET 2 OF 6	



4	3	2	1				
F			F				
E			E				
D			D				
C			C				
B			B				
A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
					Department of Agricultural Engineering		
	DRAWN	NAME	SIGNATURE	DATE	TITLE: 5.2-Bearing block		
	CHK'D	Pen Nov		Aug 20, 2017			
	CHK'D	Seng Savath		Aug 20, 2017			
	APPV'D	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL: Mild Steel	DWG NO.	Part No.1 and No.2	
Q.A							
				WEIGHT:	SCALE:1:2	SHEET 4 OF 6	
4	3	2	1				



26 teetch



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

5.2-Mechanism bearing block

DWG NO.

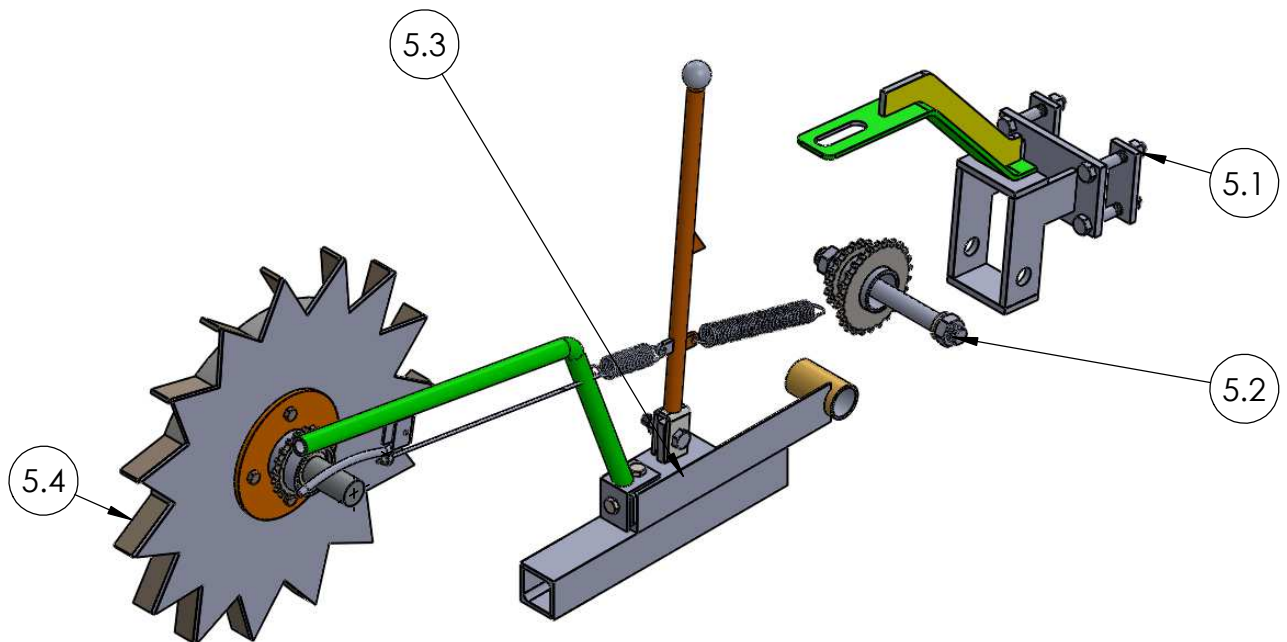
Part No.7, Sprocket 26 teetch

A4

WEIGHT:

SCALE:1:1

SHEET 6 OF 6



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5.1	Part No.1 (beam support drive wheel)		1
5.2	Part No.2 (bearing block)		1
5.3	Part No.3		1
5.4	Part No.6, Sprocket		1

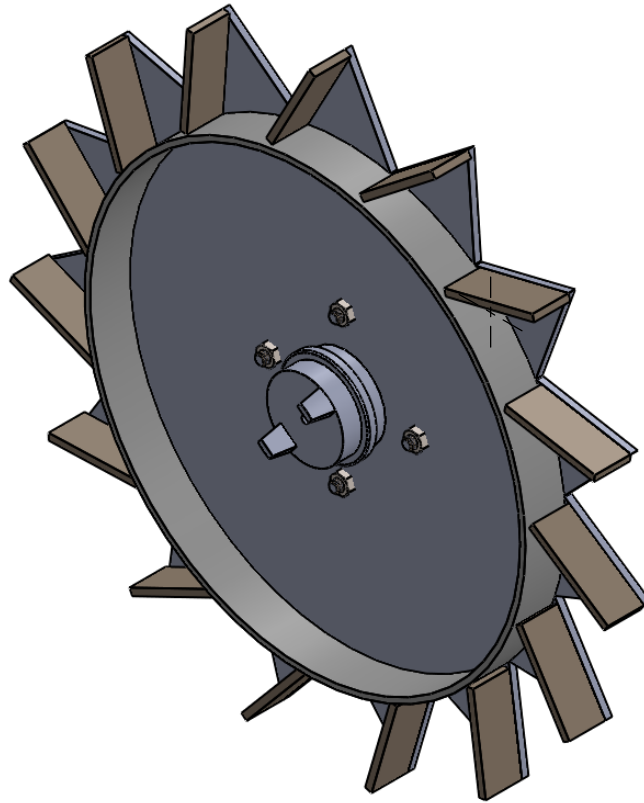
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Q.A																														
MATERIAL: Mild Steel						DWG NO.																								
WEIGHT:						SCALE:1:10																								
						SHEET 2 OF 19																								

Department of Agricultural Engineering

5-Drive Wheel Component

Drive wheel parts

A4



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:				FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION																																																																					
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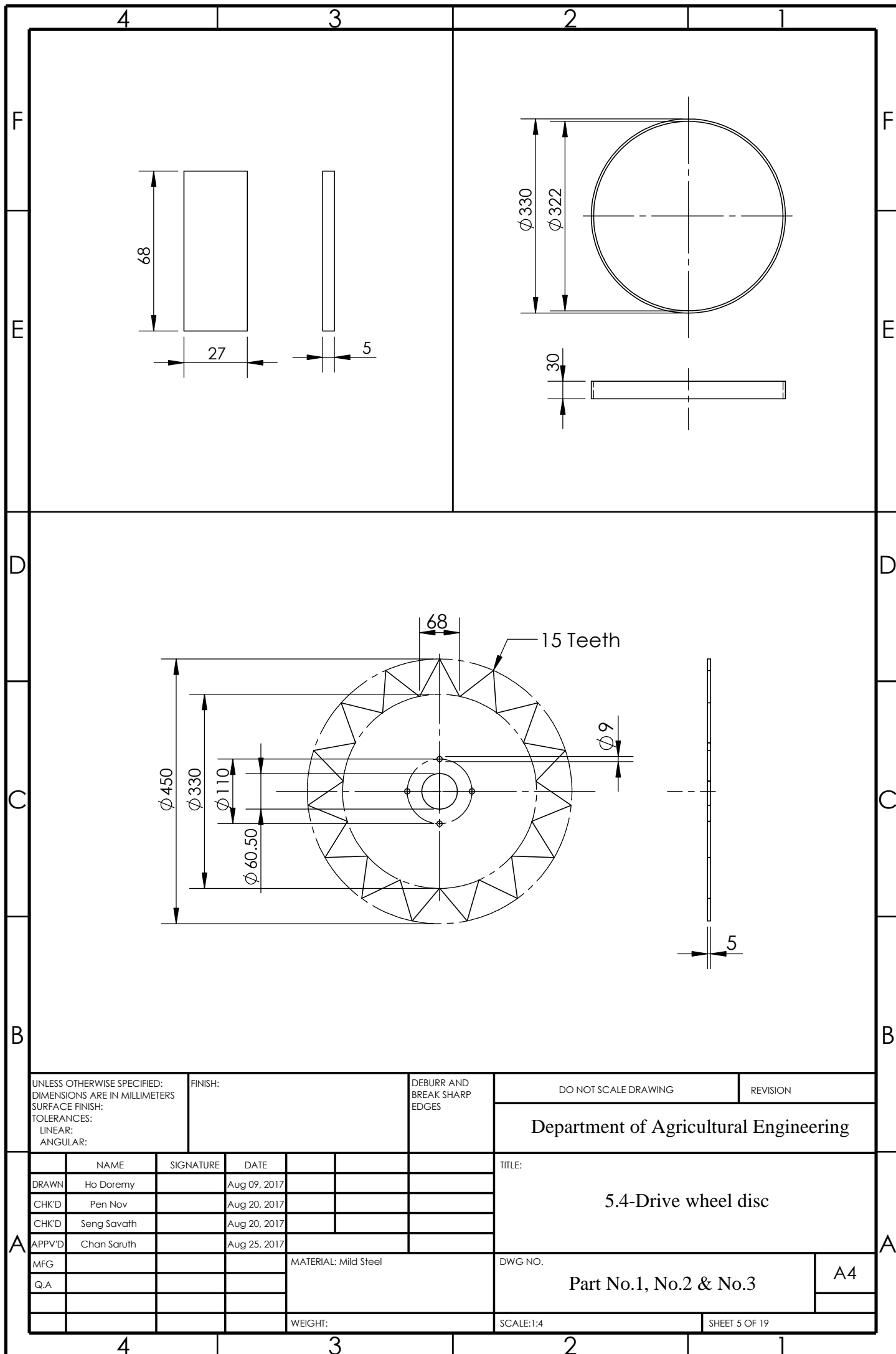
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E			E
D			D
C			C
B			B
A			A

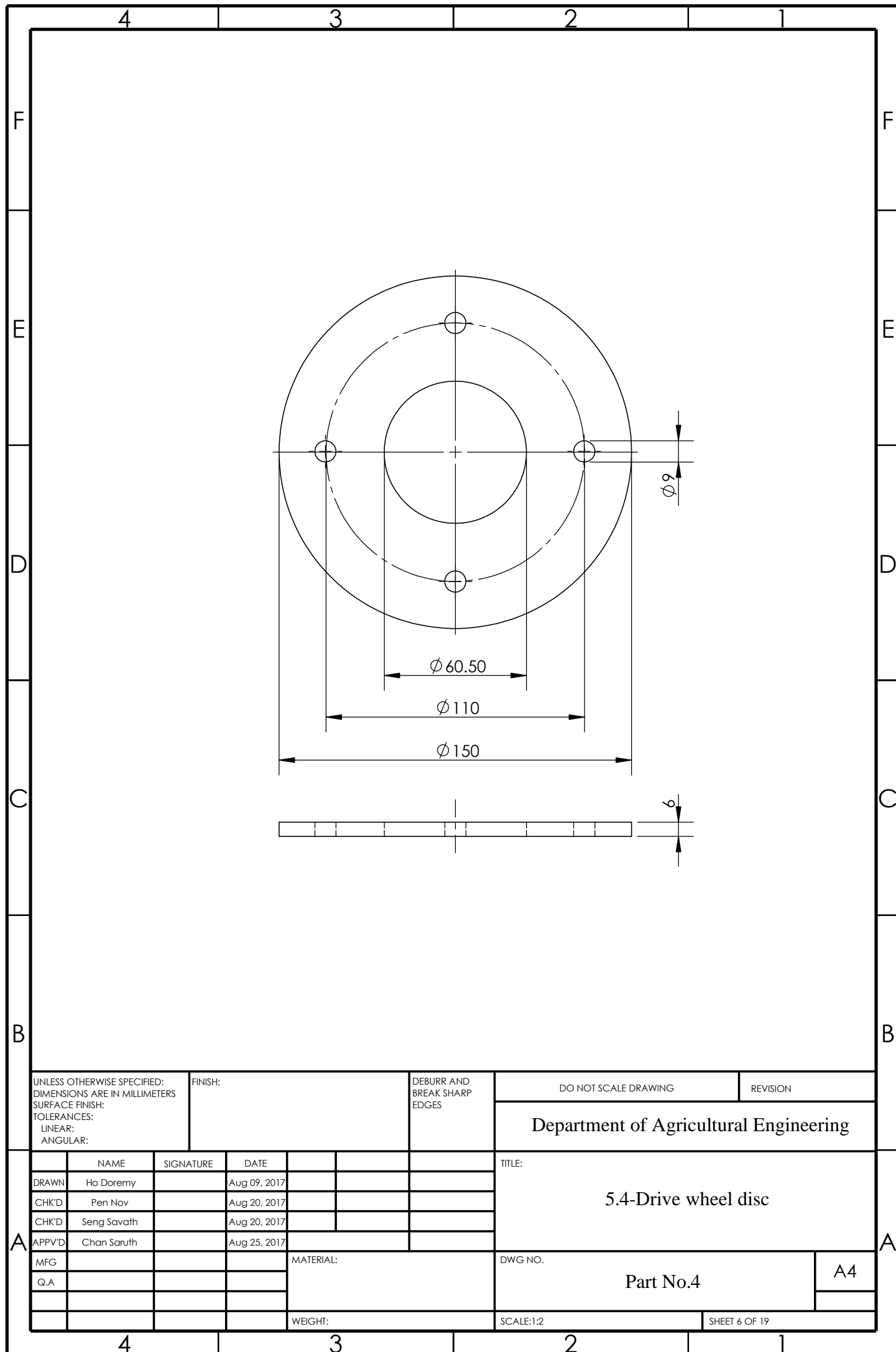
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5.4.1	Part No.1, Big disc with	450dia x 5	1
5.4.2	Part No.2, plate steel for support disc	5 x 27 x 68	15
5.4.3	Part No.3, Ring 330dia (30 x 4)	30 x ID322 x OD330	1
5.4.4	Part No.4	150dia x 6	1
5.4.5	Part No.5, bearing block		1
5.4.6	Bolt and nut M8		4
5.4.6.1	Roller bearing	30205	2
5.4.7	Sprocket with 20 teeth		1

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Department of Agricultural Engineering				

	NAME	SIGNATURE	DATE				TITLE: <div style="text-align: center; font-size: 1.2em;">5.4-Drive Wheel Disc</div>
A	DRAWN	Ho Doremy	Aug 20, 2017				DWG NO. <div style="text-align: center; font-size: 1.2em;">Exploded View</div> <div style="text-align: right; font-weight: bold;">A4</div>
	CHK'D	Pen Nov	Aug 20, 2017				
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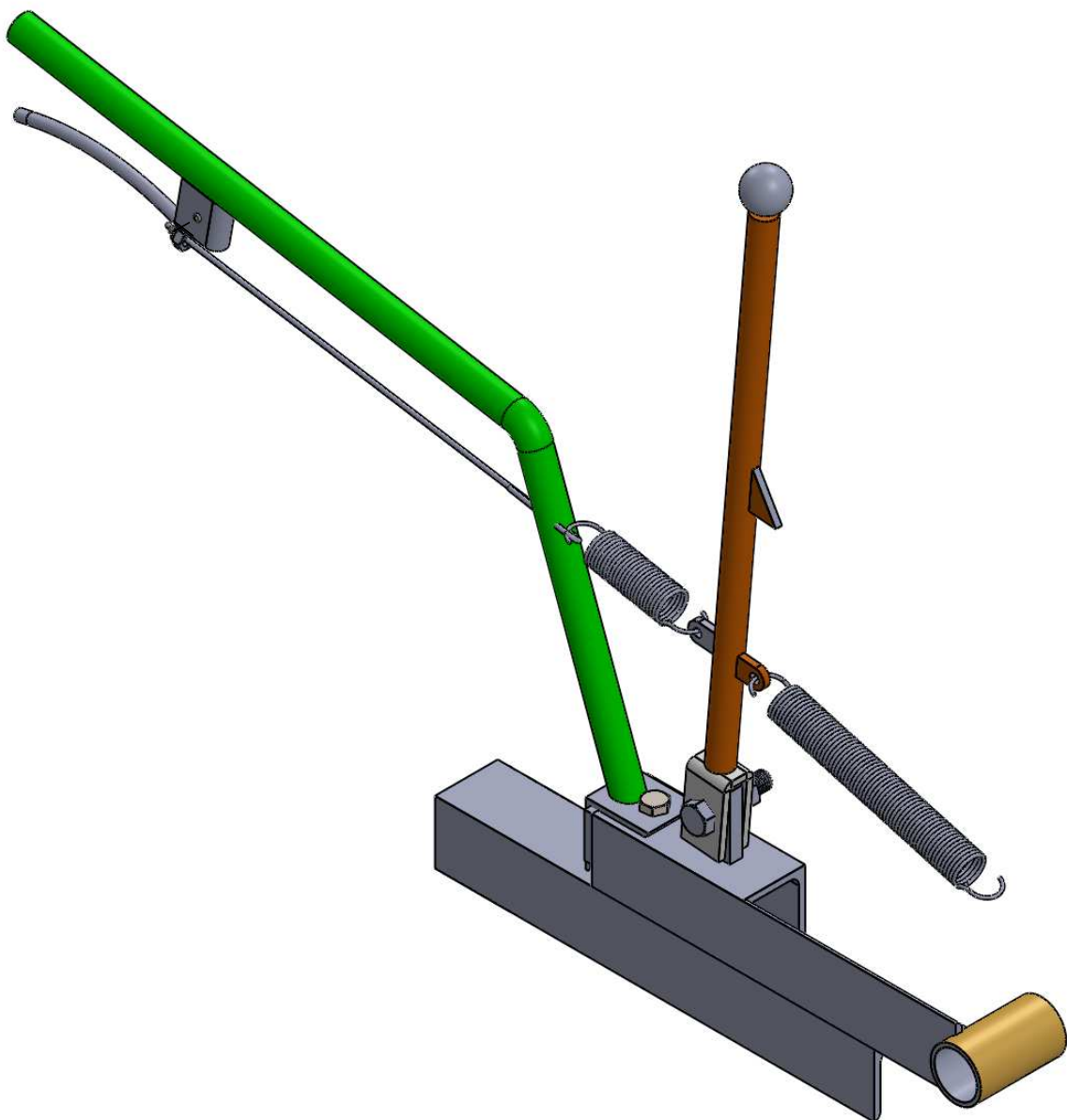
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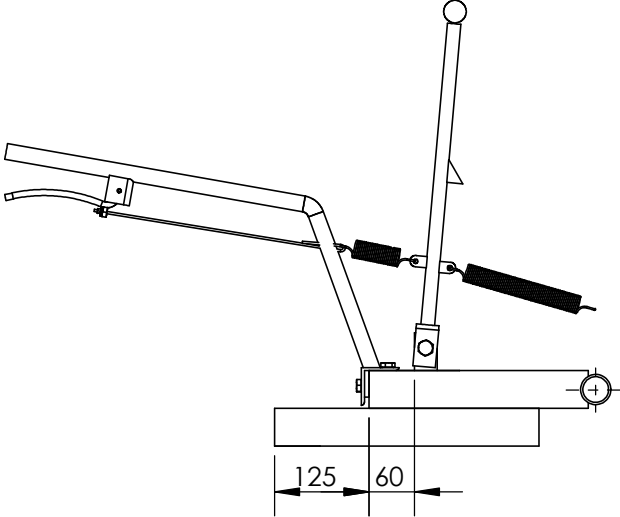
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F	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">5.5</div>			F																																																			
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NAME</th> <th style="width: 15%;">SIGNATURE</th> <th style="width: 15%;">DATE</th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> <th style="width: 10%;"></th> </tr> <tr> <td>DRAWN</td> <td>Ho Doremy</td> <td>Aug 09, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK'D</td> <td>Pen Nov</td> <td>Aug 20, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK'D</td> <td>Seng Savath</td> <td>Aug 20, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td>APPV'D</td> <td>Chan Saruth</td> <td>Aug 25, 2017</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MFG</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Q.A</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="6"></td> <td colspan="2" style="font-size: 0.8em;">MATERIAL:</td> <td colspan="2" rowspan="2" style="font-size: 0.8em;"> DWG NO. <div style="text-align: center; font-weight: bold; font-size: 1.1em;">Part No.5.1 & No.5.2</div> </td> <td rowspan="2" style="text-align: center; font-weight: bold; font-size: 1.1em;">A4</td> </tr> <tr> <td colspan="6"></td> <td colspan="2" style="font-size: 0.8em;">WEIGHT:</td> </tr> <tr> <td colspan="6"></td> <td colspan="2" style="font-size: 0.8em;">SCALE:1:2</td> <td colspan="2" style="font-size: 0.8em;">SHEET 8 OF 19</td> <td></td> </tr> </table>						NAME	SIGNATURE	DATE				DRAWN	Ho Doremy	Aug 09, 2017										CHK'D	Pen Nov	Aug 20, 2017				CHK'D	Seng Savath	Aug 20, 2017				APPV'D	Chan Saruth	Aug 25, 2017				MFG						Q.A																		MATERIAL:		DWG NO. <div style="text-align: center; font-weight: bold; font-size: 1.1em;">Part No.5.1 & No.5.2</div>		A4							WEIGHT:								SCALE:1:2		SHEET 8 OF 19			A																
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								Department of Agriculture Engineering																													
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MFG																																					
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												Department of Agricultural Engineering											
A				NAME				SIGNATURE				DATE				TITLE: 5.3-Parts support Drive Disc							
				DRAWN Ho Doremy								Aug 09, 2017											
				CHK'D Pen Nov								Aug 20, 2017											
				CHK'D Seng Savath								Aug 20, 2017											
				APPV'D Chan Saruth								Aug 25, 2017											
				MFG												MATERIAL: Mild Steel				DWG NO.			
Q.A																Parts Support Drive Disc				A4			
																SCALE:1:6				SHEET 10 OF 19			
4				3				2				1											

4	3	2	1
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
5.3.1	Part No.1, Pipe 40diax80		1
5.3.2	Part No.2	50 x 50 x 5 x 350	1
5.3.3	Part No.3	50 x 50 x 5 x 350	1
5.3.4	Part No.4, Thread plate		1
5.3.5	Part No.5	50x50x5x60	1
5.3.6	Part No.6	50x50x5x120	1
5.3.7	Part No.7	50x50x4x40	1
5.3.8	Part No.8		1
5.3.9	GB_FASTENER_BOLT_HHBC M10X45-N	M10x1.5x30	2
5.3.10	Part No.10, Assembly of Lock stick		1
5.3.12	Part No.12, Bolt and Nut	M12X1.75X50	1
13	Part Nylon rope		1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
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FINISH:

DEBURR AND
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EDGES

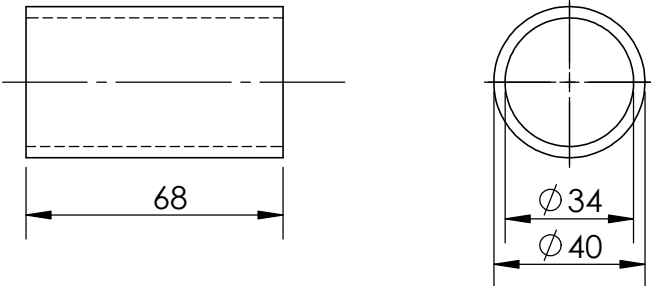
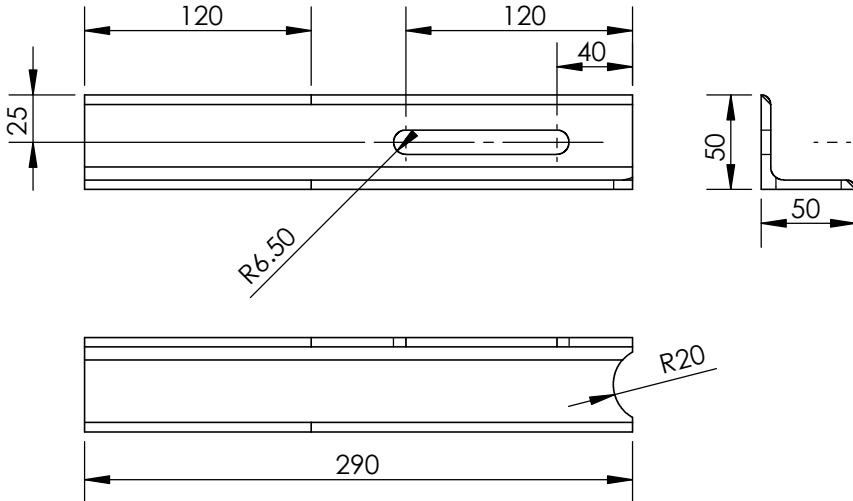
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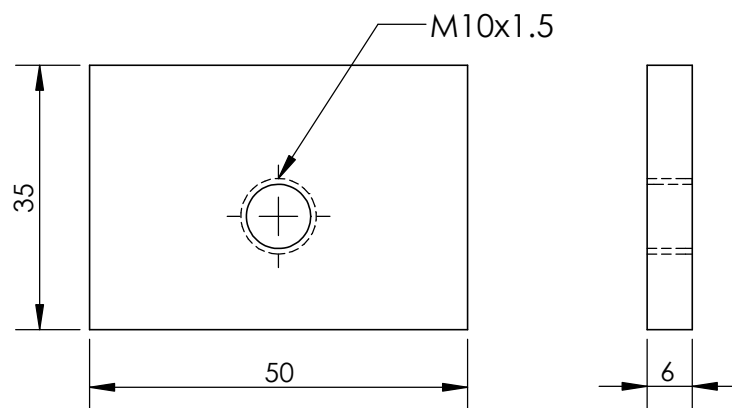
REVISION

Department of Agricultural Engineering

	NAME	SIGNATURE	DATE				<p>TITLE:</p> <p>5.3-Parts Support Drive Wheel Disc</p>
DRAWN	Ho Doremy		Aug 09, 2017				
CHK'D	Pen Nov		Aug 20, 2017				
CHK'D	Seng Savath		Aug 20, 2017				
APPV'D	Chan Saruth		Aug 25, 2017				
MFG				MATERIAL:			<p>DWG NO.</p> <p>Exploded view of Part 5.3</p>
Q.A							
				WEIGHT:			<p>SCALE:1:8</p> <p>SHEET 11 OF 19</p>

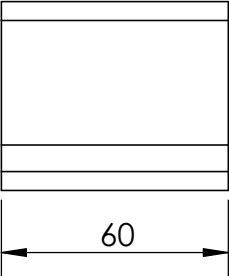
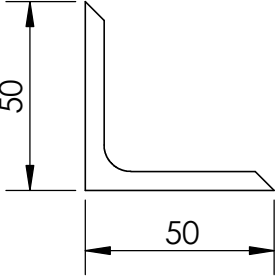
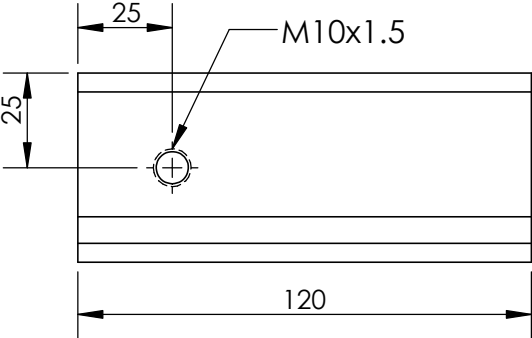
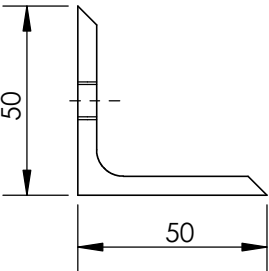
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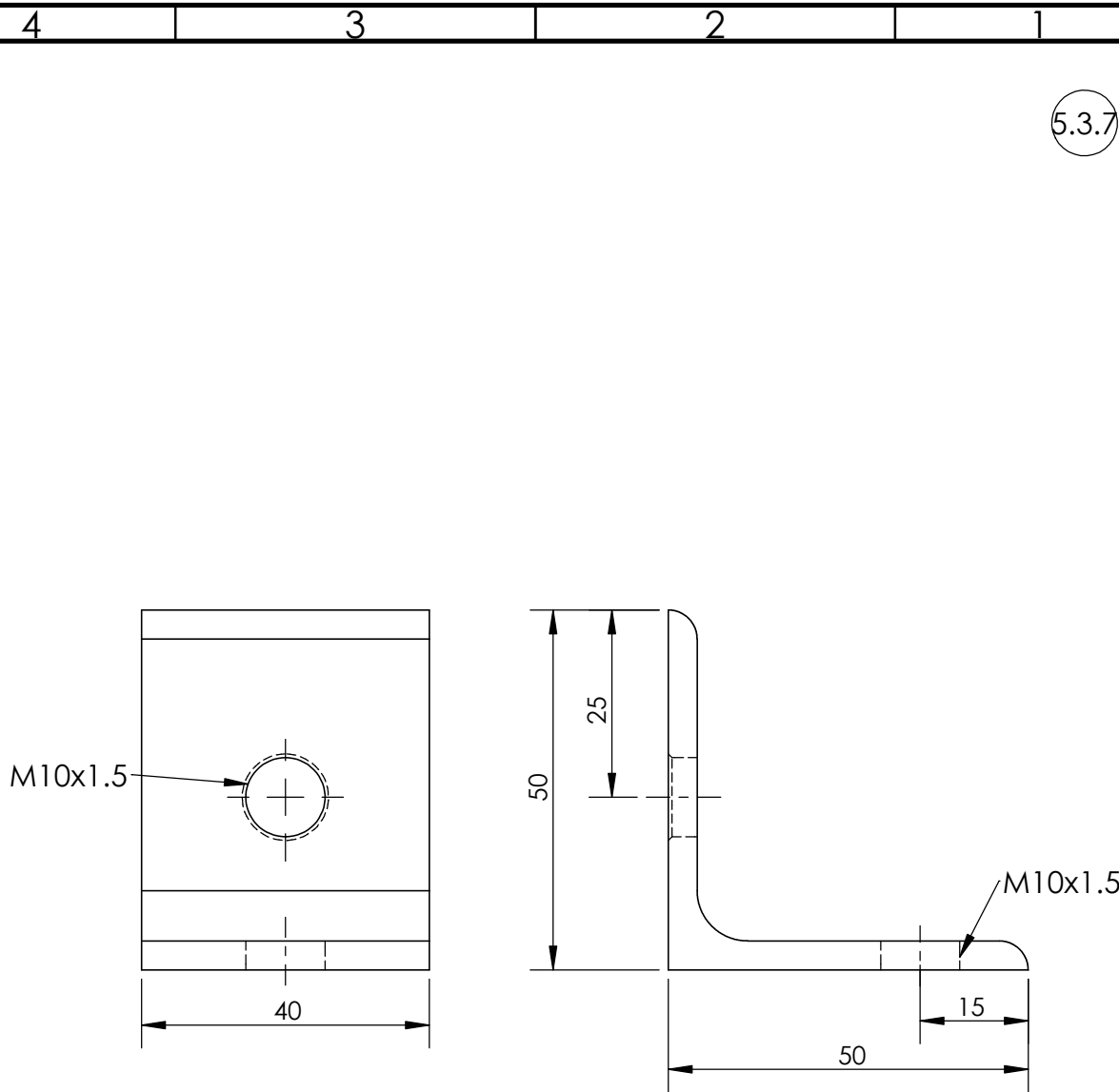
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E			E
D			D
			
SCALE: 1:2			
C			C
			
SCALE: 1:4			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES
		DO NOT SCALE DRAWING	
		REVISION	
Department of Agricultural Engineering			
TITLE:		5.3-Parts Support Drive Wheel Disc	
DRAWN: Ho Doremy			
CHK'D: Pen Nov			
CHK'D: Seng Savath			
APPV'D: Chan Saruth			
MFG:		MATERIAL:	
Q.A:		DWG NO.	
		Part No.1 & No.2	
		A4	
WEIGHT:		SCALE	
		SHEET 12 OF 19	
4	3	2	1
A			A



SHEET 13 OF 19

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APP'VD	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL: Mild Steel		
Q.A						
				WEIGHT:		

4	3	2	1				
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E	<div style="display: flex; justify-content: space-around; align-items: center;">   </div>			E			
D				D			
C	<div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">5.3.6</div>			C			
B	<div style="display: flex; justify-content: space-around; align-items: center;">   </div>			B			
A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
					Department of Agricultural Engineering		
	DRAWN	NAME	SIGNATURE	DATE	<div style="border: 1px solid black; padding: 5px;"> TITLE: 5.3-Parts Support Drive Wheel Disc </div>		
	CHK'D	Pen Nov		Aug 20, 2017			
	CHK'D	Seng Savath		Aug 20, 2017			
	APPV'D	Chan Saruth		Aug 25, 2017			
	MFG						
	Q.A				MATERIAL:	DWG NO.	Parts No.5&No.6
					WEIGHT:	SCALE:1:2	SHEET 14 OF 19
	4	3	2	1			



UNLESS OTHERWISE SPECIFIED:
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SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

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BREAK SHARP
EDGES

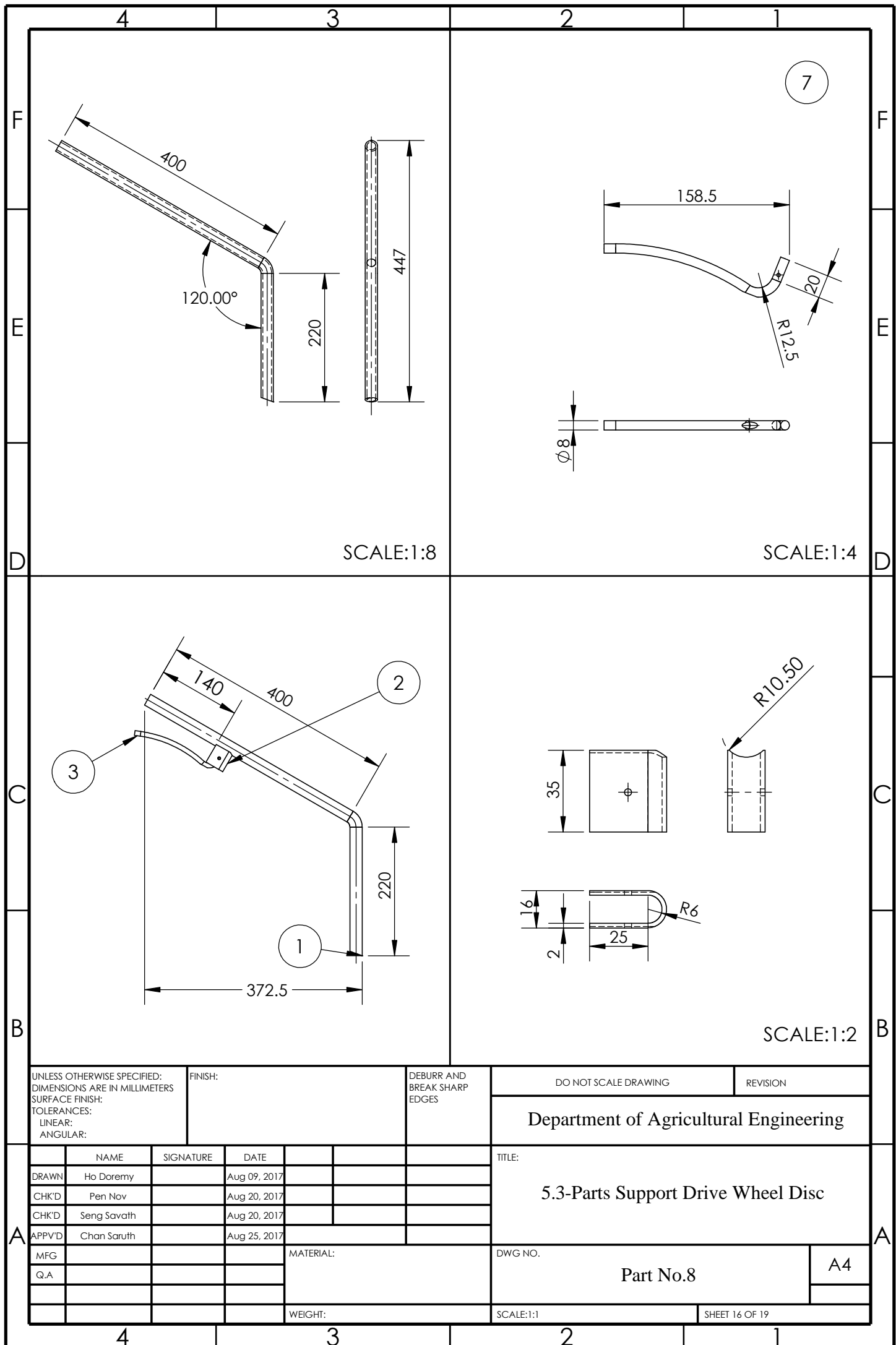
DO NOT SCALE DRAWING

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Department of Agricultural Engineering

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL:		
Q.A						
				WEIGHT:		

TITLE:		
5.3-Parts Support Drive Wheel Disc		
DWG NO.		A4
Part 7		
SCALE:1:1	SHEET 15 OF 19	



4	3	2	1
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Part U5x30x55		SCALE!1:2
2	Part Solid tub 20diax300		1
3	Plate 10x30x50		1
4	M12x50 for hand block	M12 x 1.75 x 50	1
5	Spring	Pitch: 2.5, H:198, Dia:22	1
6	Part for solid tub		1
7	Spring	Pitch:2.5, H:126, Dia:22	1

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Department of Agricultural Engineering				

	NAME	SIGNATURE	DATE				TITLE: 5.3-Parts Support Drive Wheel Disc
DRAWN	Ho Doremy		Aug 09, 2017				
CHK'D	Pen Nov		Aug 20, 2017				
CHK'D	Seng Savath		Aug 20, 2017				
APPV'D	Chan Saruth		Aug 25, 2017				
MFG							
Q.A							
MATERIAL: Mild Steel							DWG NO. Part No.9
WEIGHT:							

SCALE:1:4	SHEET 17 OF 19
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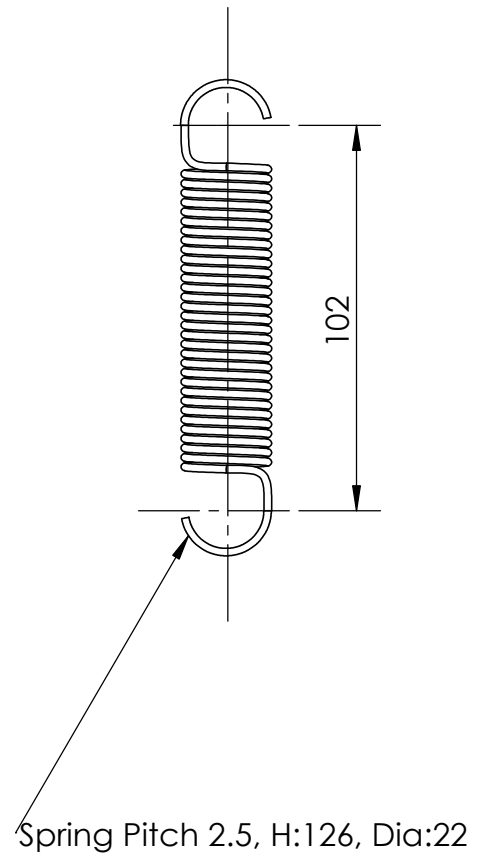


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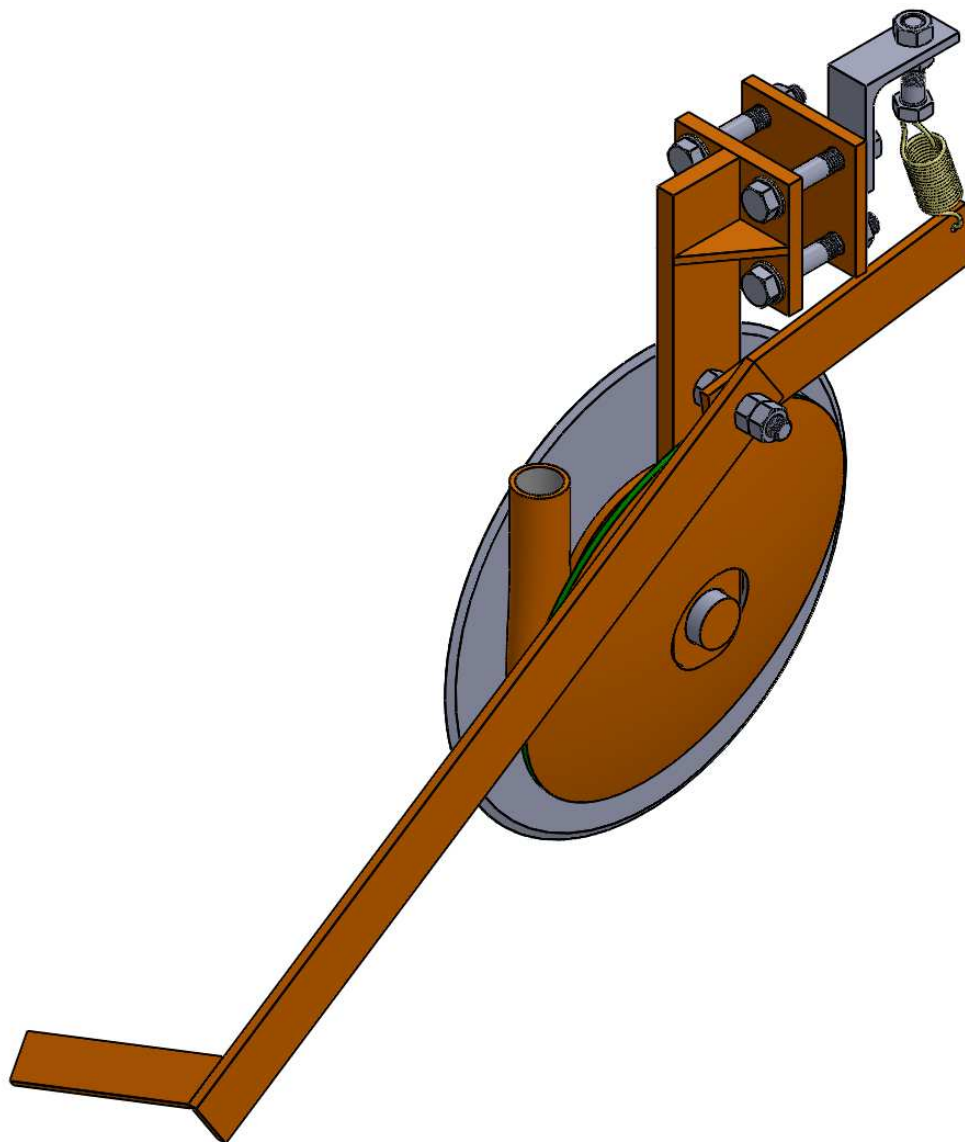
SHEET 18 OF 19

	NAME	SIGNATURE	DATE
DRAWN	Ho Doremy		Aug 09, 2017
CHK'D	Pen Nov		Aug 20, 2017
CHK'D	Seng Savath		Aug 20, 2017
APP'VD	Chan Saruth		Aug 25, 2017
MFG			
Q.A			



SHEET 19 OF 19

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG				MATERIAL:		
Q.A						
				WEIGHT:		



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
6.1	Part No. 1	85 x 85 x 10	1
6.2	Part No. 2		1
6.3	Part No. 3		2
6.4	Part No. 4	85 x 85 x 8	1
6.5	Part No. 5		1
6.6	Part No. 6		1
6.7	Part No. 7		1
6.8	Part No. 8		1
6.9	Part No. 12,	M8 x 1.25 x 20	4
6.10	Part No. 10		1
6.11	Part No. 11		1
6.12	Part No. 12	M12 x 1.75 x 85	1
6.13	Part No. 13		1
6.14	Part No. 17, Spring	M12 x 1.75 x 85	4
6.15	Part No. 15, Bolt and Nut	M12 x 1.75 x 50 with 2 nuts	1
6.16	Part No. 18, Furrow closer (L)		1
6.17	Part No. 17	M12 x 1.75 x 50	1
6.18	Part No. 18, Furrow closer (R)		1

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TOLERANCES:
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ANGULAR:

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EDGES

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Department of Agricultural Engineering

TITLE:

6-Disc Coulter Right Side

NAME	SIGNATURE	DATE
DRAWN Ho Doremy		Aug 09, 2017
CHK'D Pen Nov		Aug 20, 2017
CHK'D Seng Savath		Aug 20, 2017
APPV'D Chan Saruth		Aug 25, 2017

DWG NO.

Assem of Disc Coulter

A4

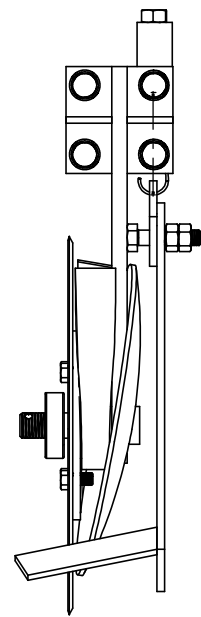
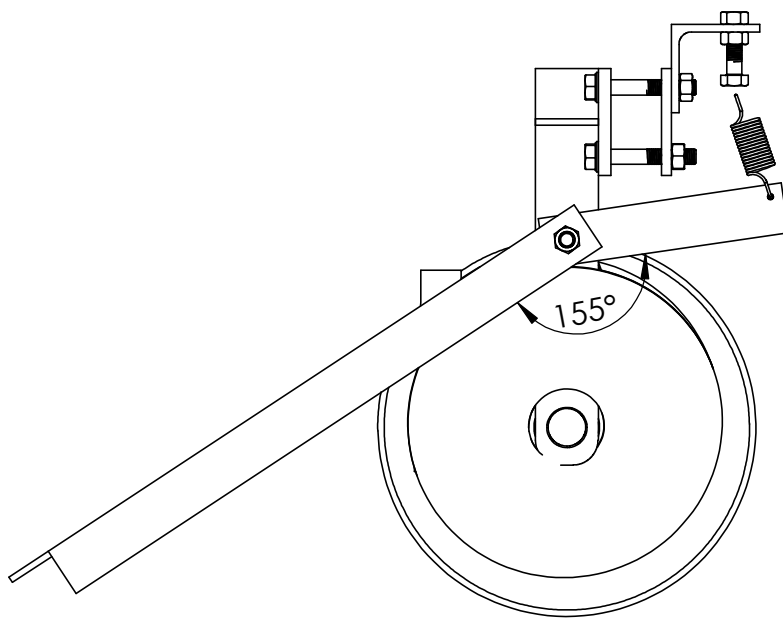
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WEIGHT:

SCALE: 1:10

SHEET 2 OF 11

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DIMENSIONS ARE IN MILLIMETERS
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LINEAR:
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FINISH:

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EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

NAME	SIGNATURE	DATE			
DRAWN Ho Doremy		Aug 09, 2017			
CHK'D Pen Nov		Aug 20, 2017			
CHK'D Seng Savath		Aug 20, 2017			
APPV'D Chan Saruth		Aug 25, 2017			
MFG					
Q.A					

MATERIAL: Mild Steel

WEIGHT:

TITLE:

6-Disc Coulter Right Side

DWG NO.

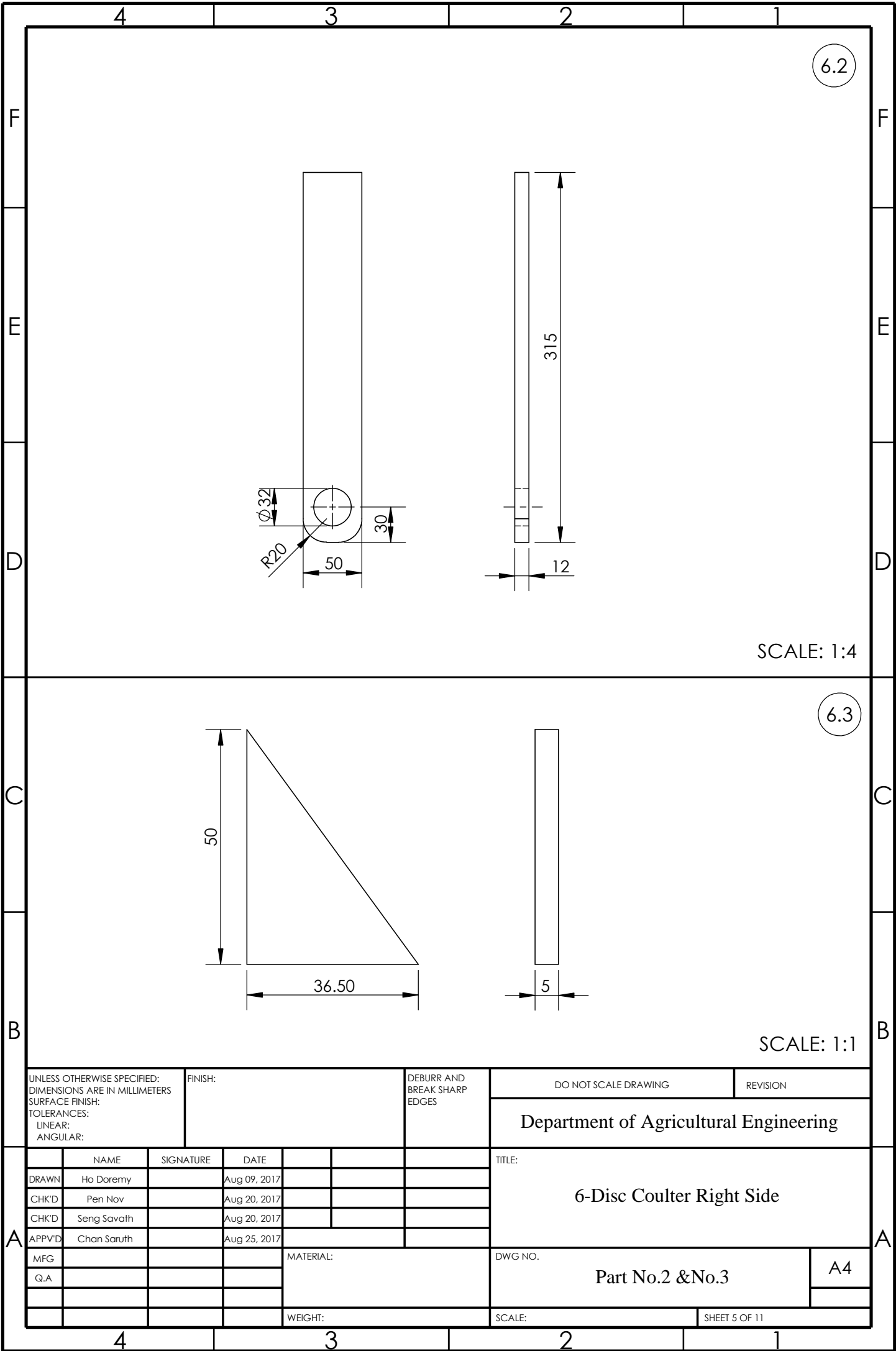
Schematic Diagram of Disc Coulter

A4

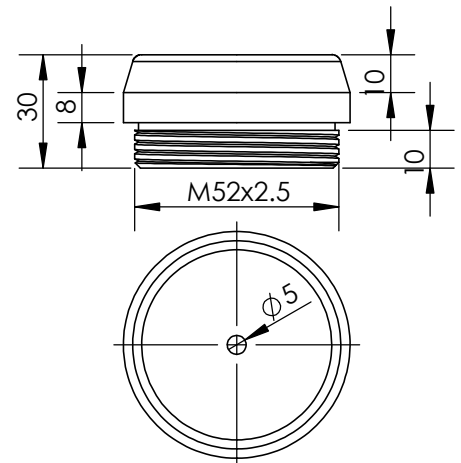
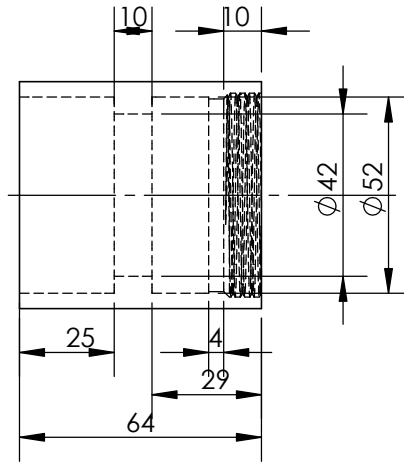
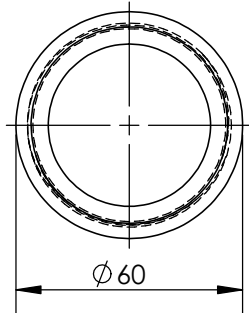
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SHEET 3 OF 11

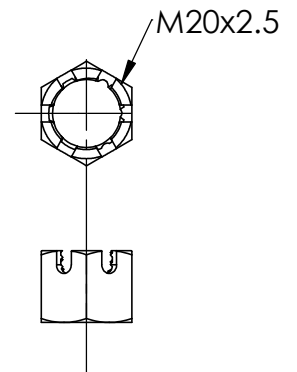
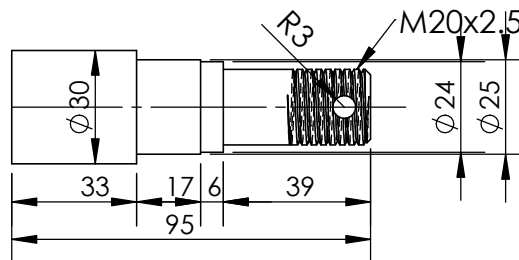
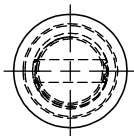
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A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Department of Agricultural Engineering	
					6-Disc Coulter Right Side	
					Part No.1 &No.4	
					A4	
				SCALE:1:2		SHEET 4 OF 11
4	3	2	1			



6.6



6.5



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

6-Disc Coulter Right Side

DWG NO.

Part No.5 & No.6

A4

WEIGHT:

SCALE:1:2

SHEET 6 OF 11

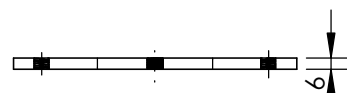
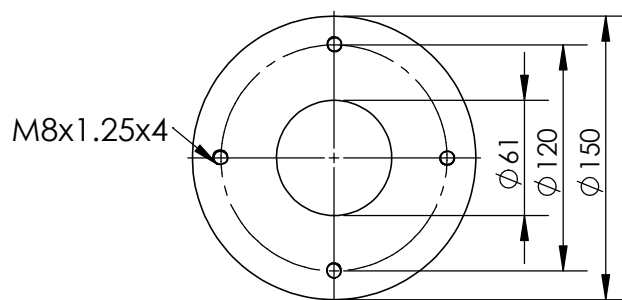
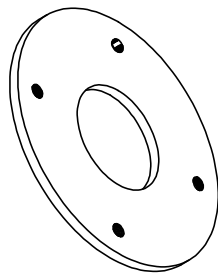
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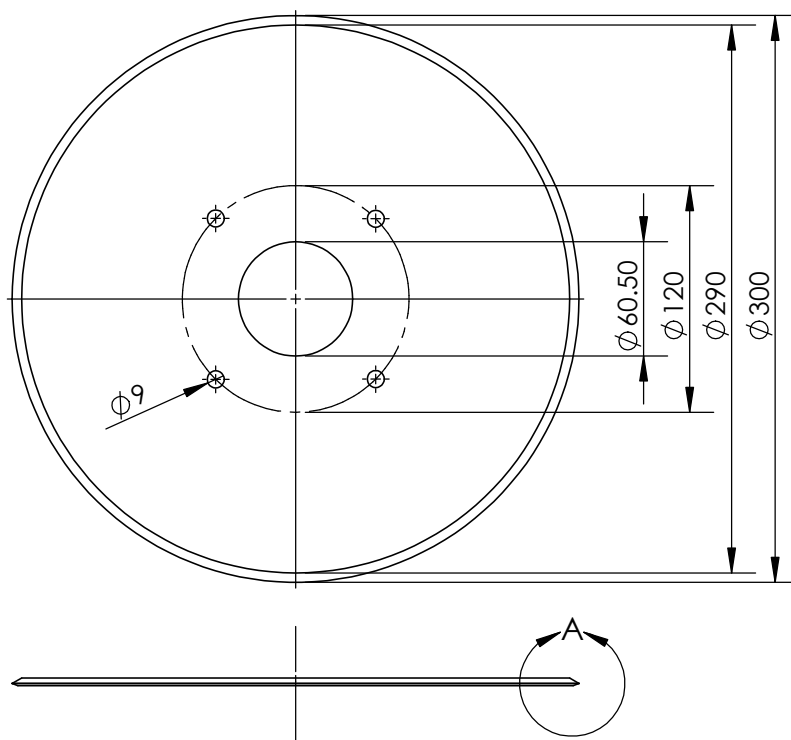
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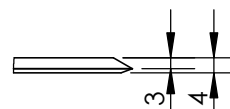
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6.8



DETAIL A
SCALE 1 : 2



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 2017			
CHK'D	Pen Nov		Aug 20, 2017			
CHK'D	Seng Savath		Aug 20, 2017			
APPV'D	Chan Saruth		Aug 25, 2017			
MFG						
Q.A						

WEIGHT:

TITLE:

6-Disc Coulter Right Side

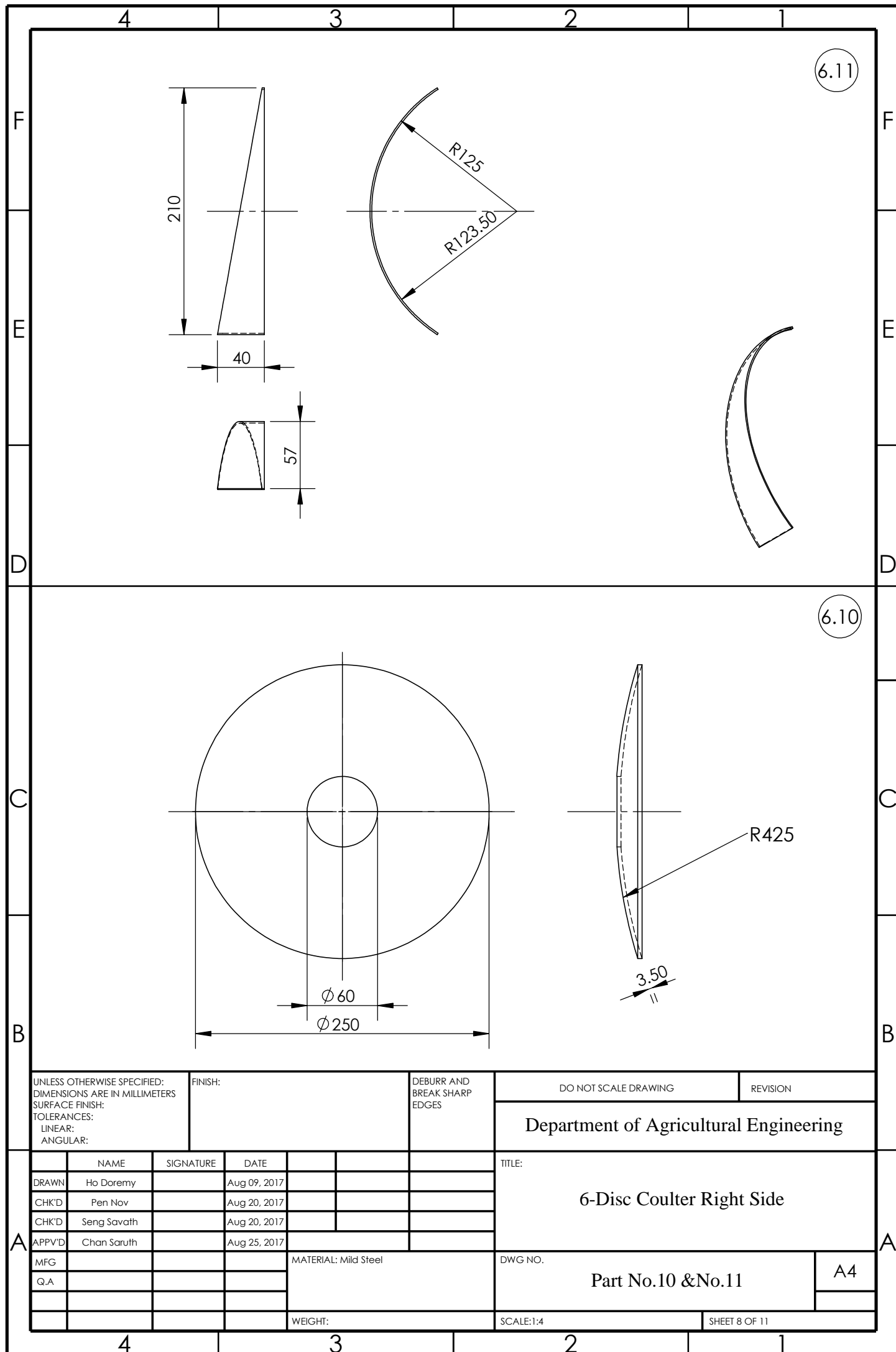
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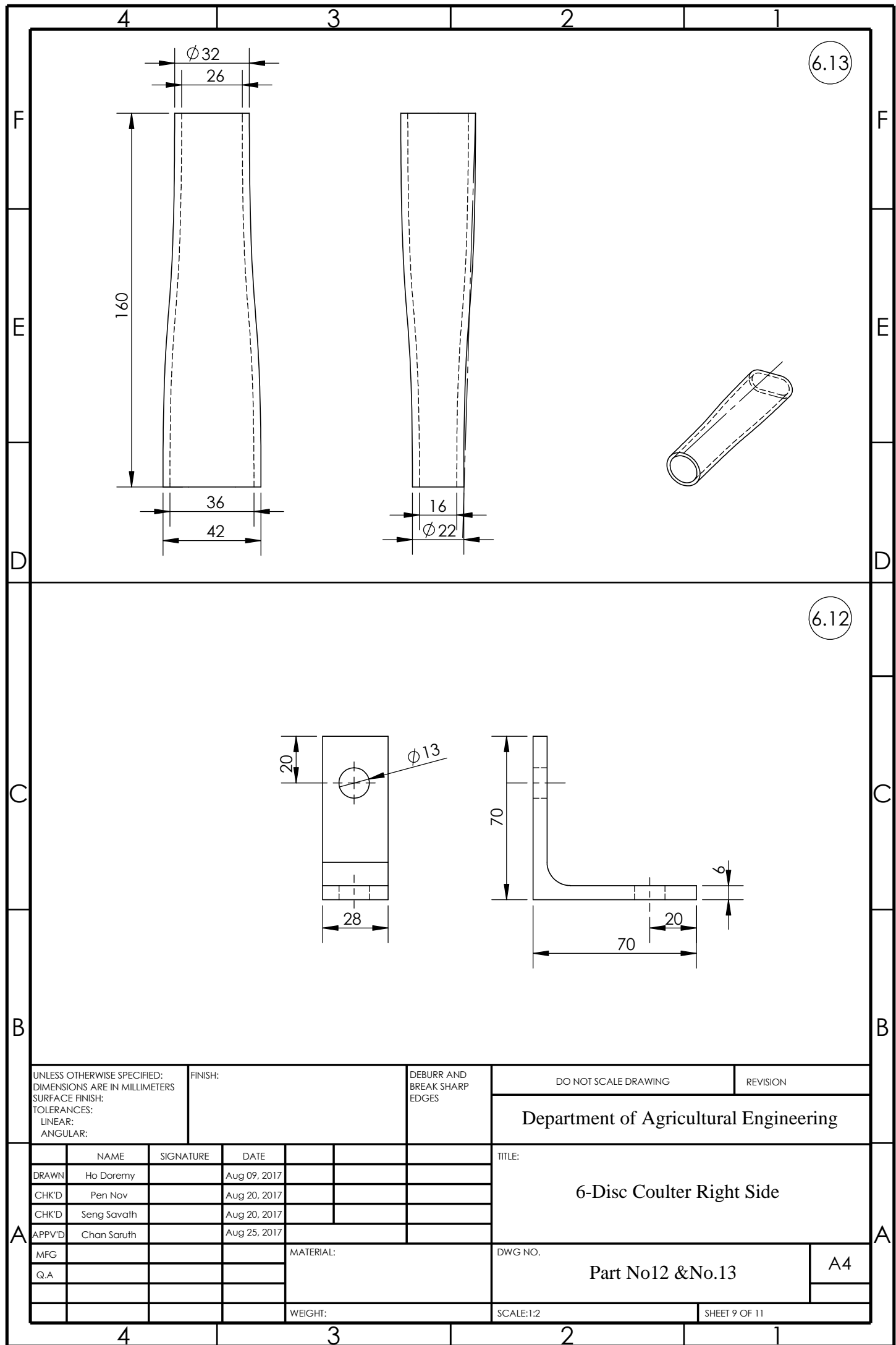
Part No.7 &No.8

A4

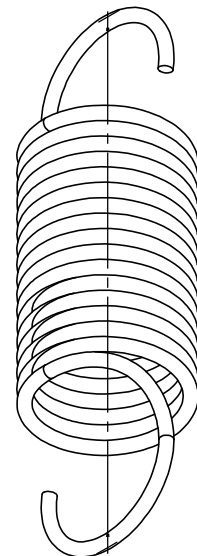
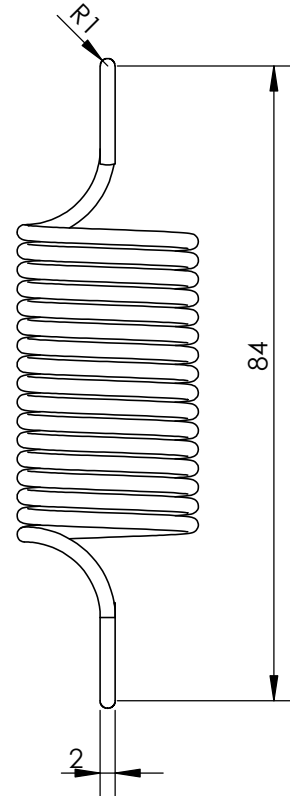
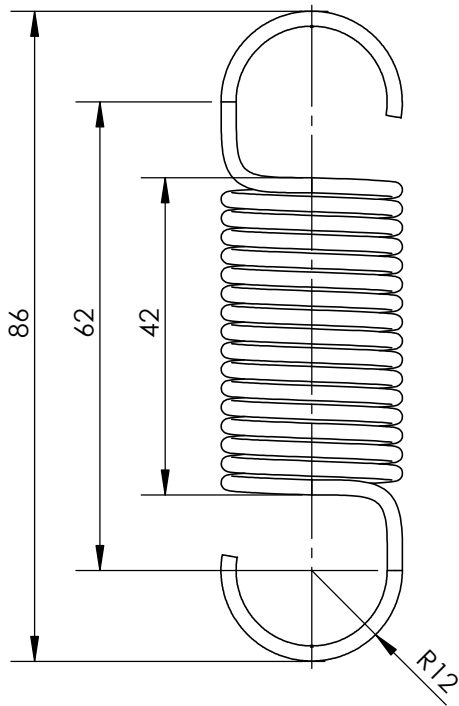
SCALE:1:4

SHEET 7 OF 11





6.16



UNLESS OTHERWISE SPECIFIED:
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SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

6-Disc Coulter Right Side

DWG NO.

Part No.16

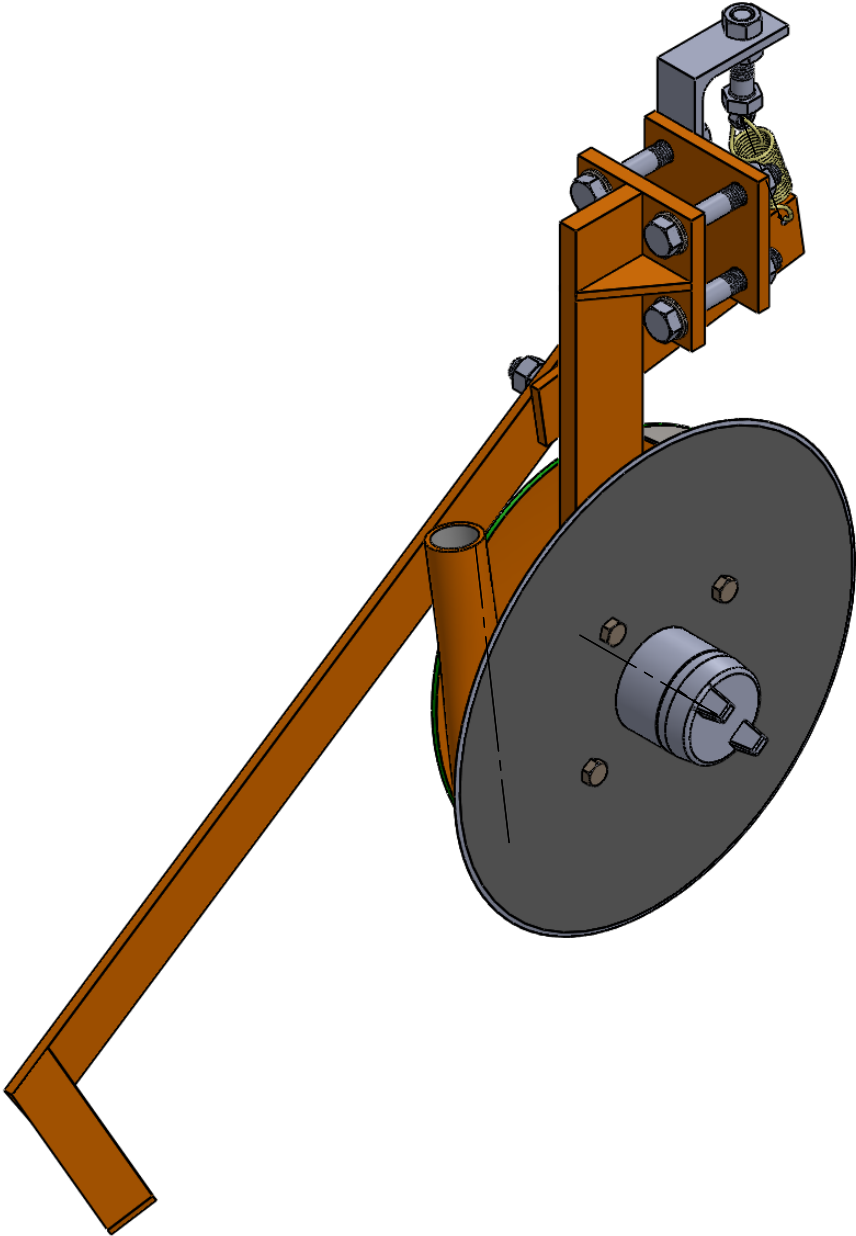
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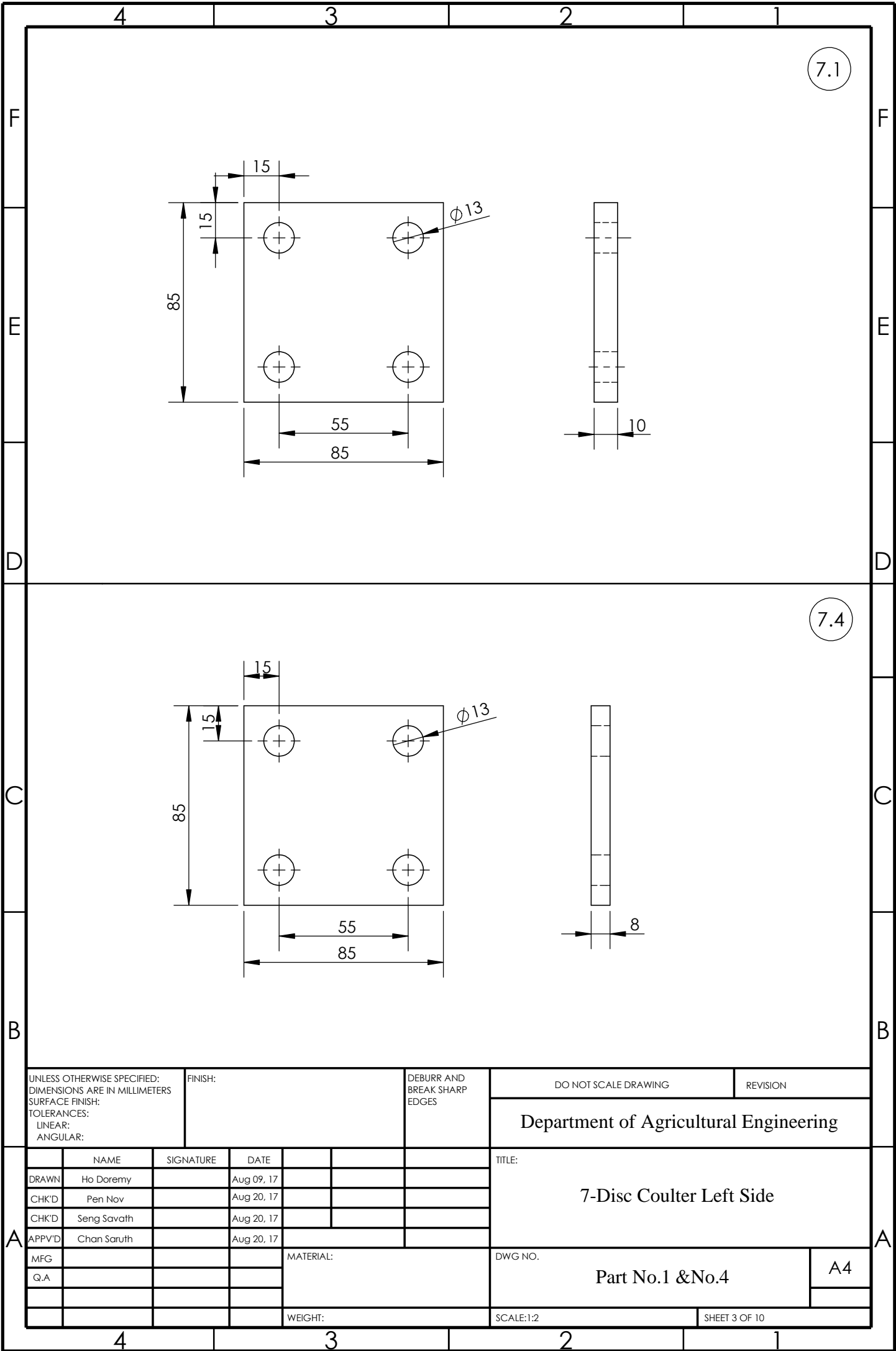
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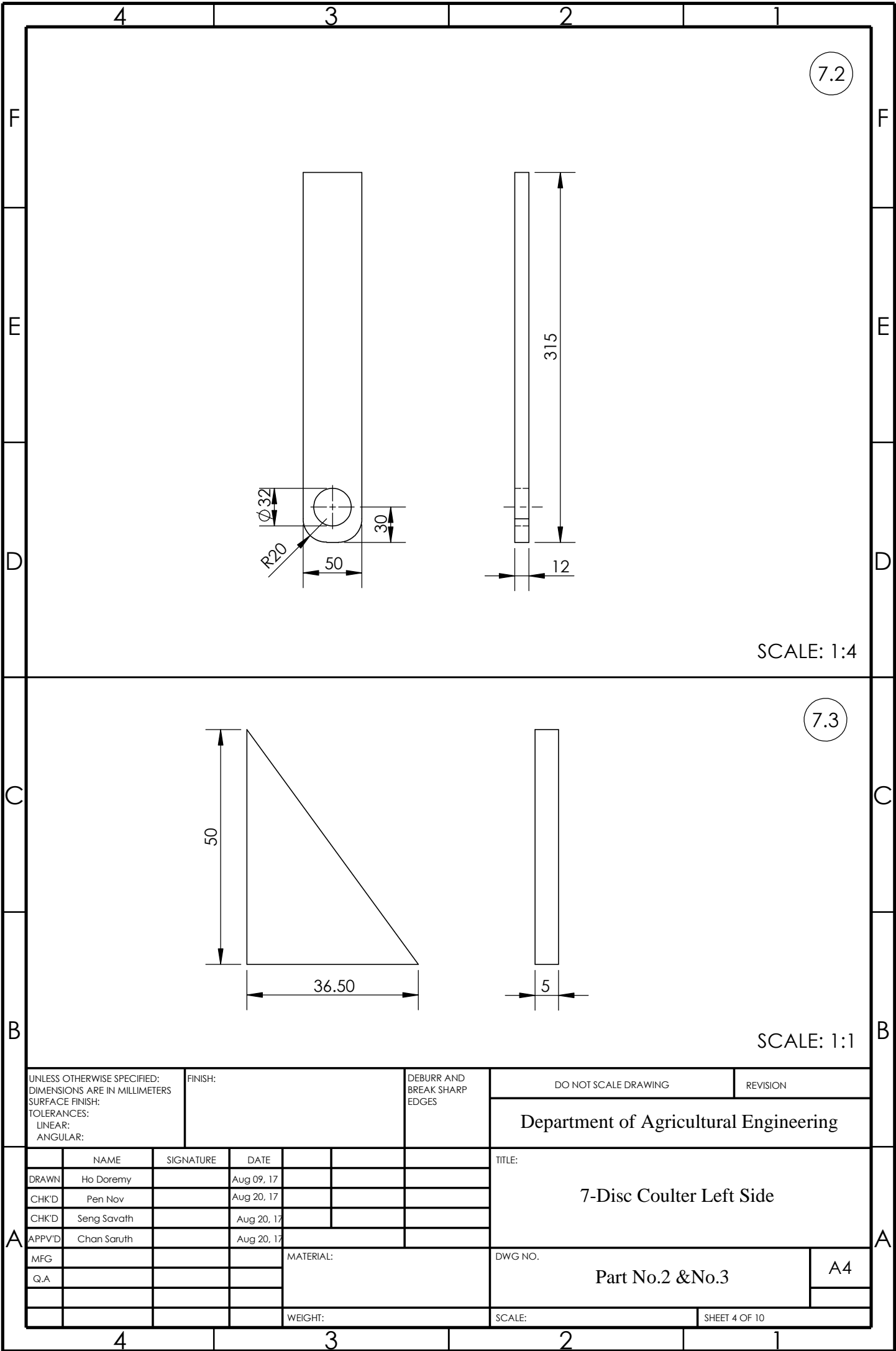
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SHEET 10 OF 11

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E	<div style="border: 1px solid black; padding: 10px; margin: 10px;"> <div style="text-align: right; margin-bottom: 10px;">②</div> </div>		E																														
D	<div style="border: 1px solid black; padding: 10px; margin: 10px;"> <div style="text-align: right; margin-bottom: 10px;">③</div> </div>		D																														
C	<div style="border: 1px solid black; padding: 10px; margin: 10px;"> <div style="text-align: right; margin-bottom: 10px;">6.18</div> </div>		C																														
B	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 15%;">ITEM NO.</th> <th style="width: 45%;">PART NUMBER</th> <th style="width: 30%;">DESCRIPTION</th> <th style="width: 10%;">QTY.</th> </tr> <tr> <td style="text-align: center;">1</td> <td>Plate steel (40 x 6 x 500)</td> <td>6 x 40 x 500</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Steel Piece (40 x 6 x 195)</td> <td>6x 40 x 195</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Steel piece 30 x 5 x 120</td> <td>5 x 30 x 120</td> <td style="text-align: center;">1</td> </tr> </table>			ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	1	Plate steel (40 x 6 x 500)	6 x 40 x 500	1	2	Steel Piece (40 x 6 x 195)	6x 40 x 195	1	3	Steel piece 30 x 5 x 120	5 x 30 x 120	1														
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<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small>		<small>FINISH:</small>	<small>DEBURR AND BREAK SHARP EDGES</small>	<small>DO NOT SCALE DRAWING</small>	<small>REVISION</small>																												
Department of Agricultural Engineering																																	
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<small>WEIGHT:</small>				<small>SCALE:</small>																													
<small>SHEET 11 OF 11</small>																																	
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						Department of Agricultural Engineering			
						TITLE:			
						7-Disc Coulter Left Side			
						DWG NO.			
						Assem of Disc Coulter Left Side			
						A4			
						SCALE:1:4			
						SHEET 1 OF 10			
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 LINEAR:
 ANGULAR:

FINISH:

DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE:

7-Disc Coulter Left Side

MATERIAL:

DWG NO.	
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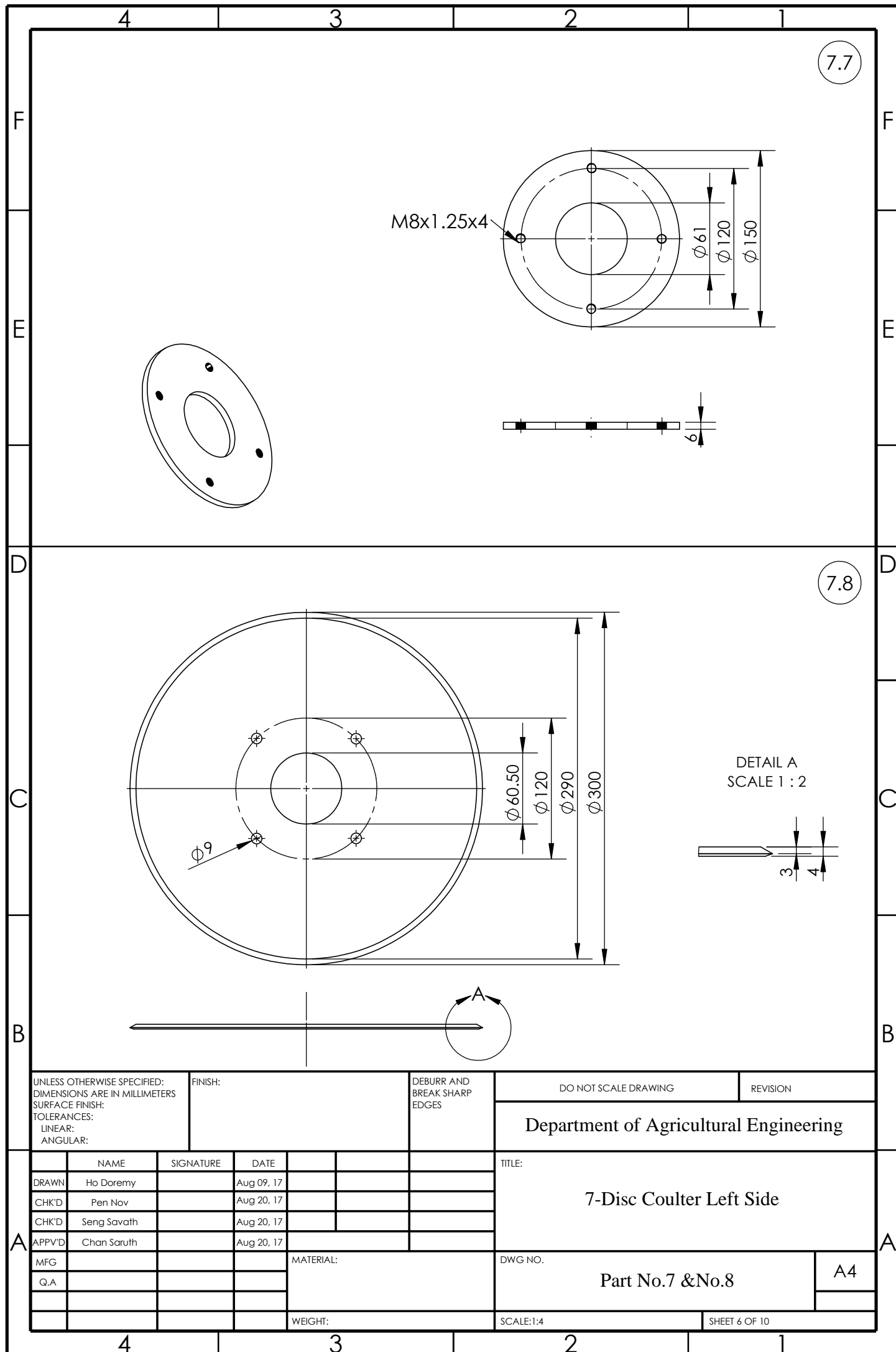
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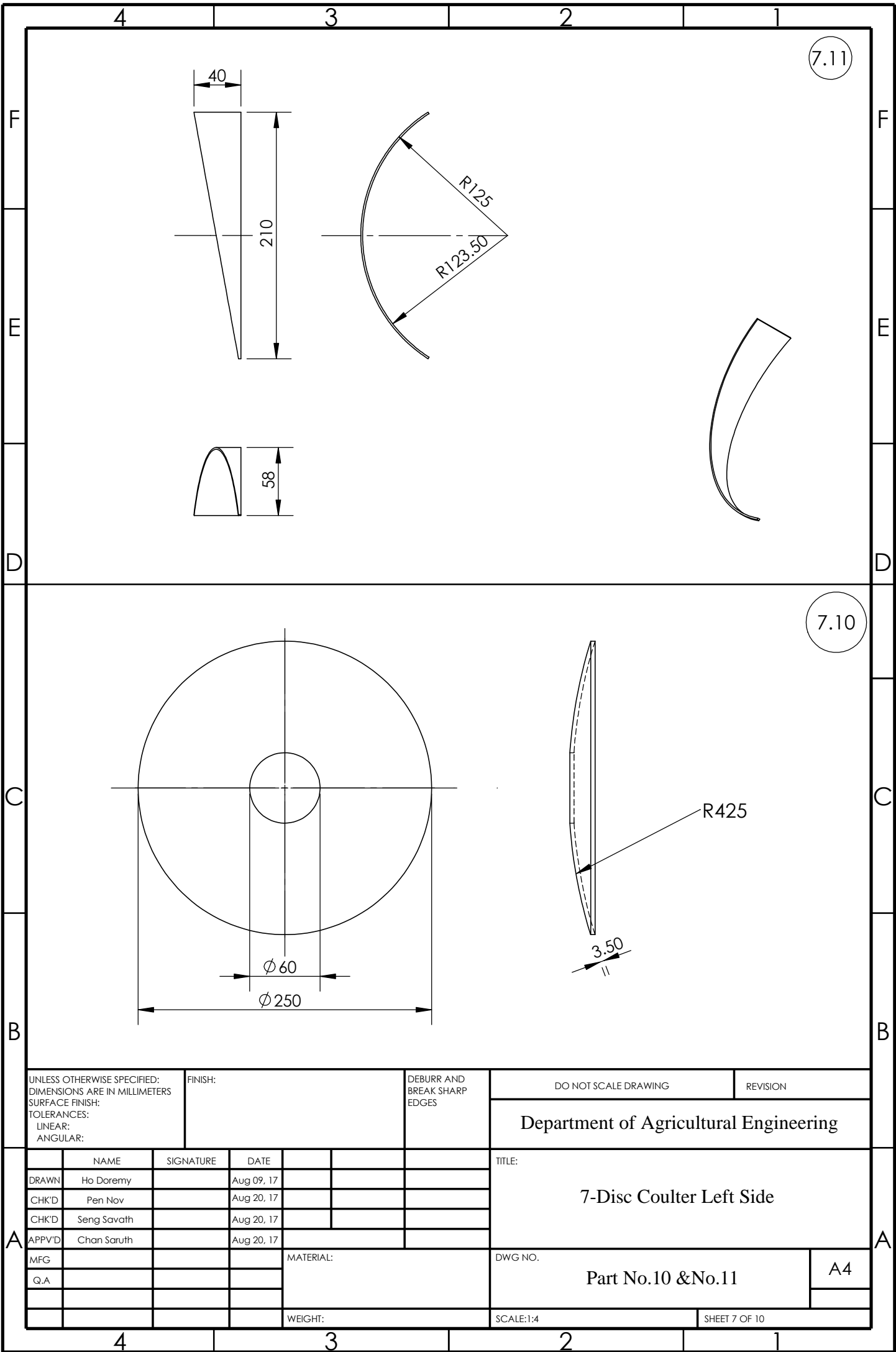
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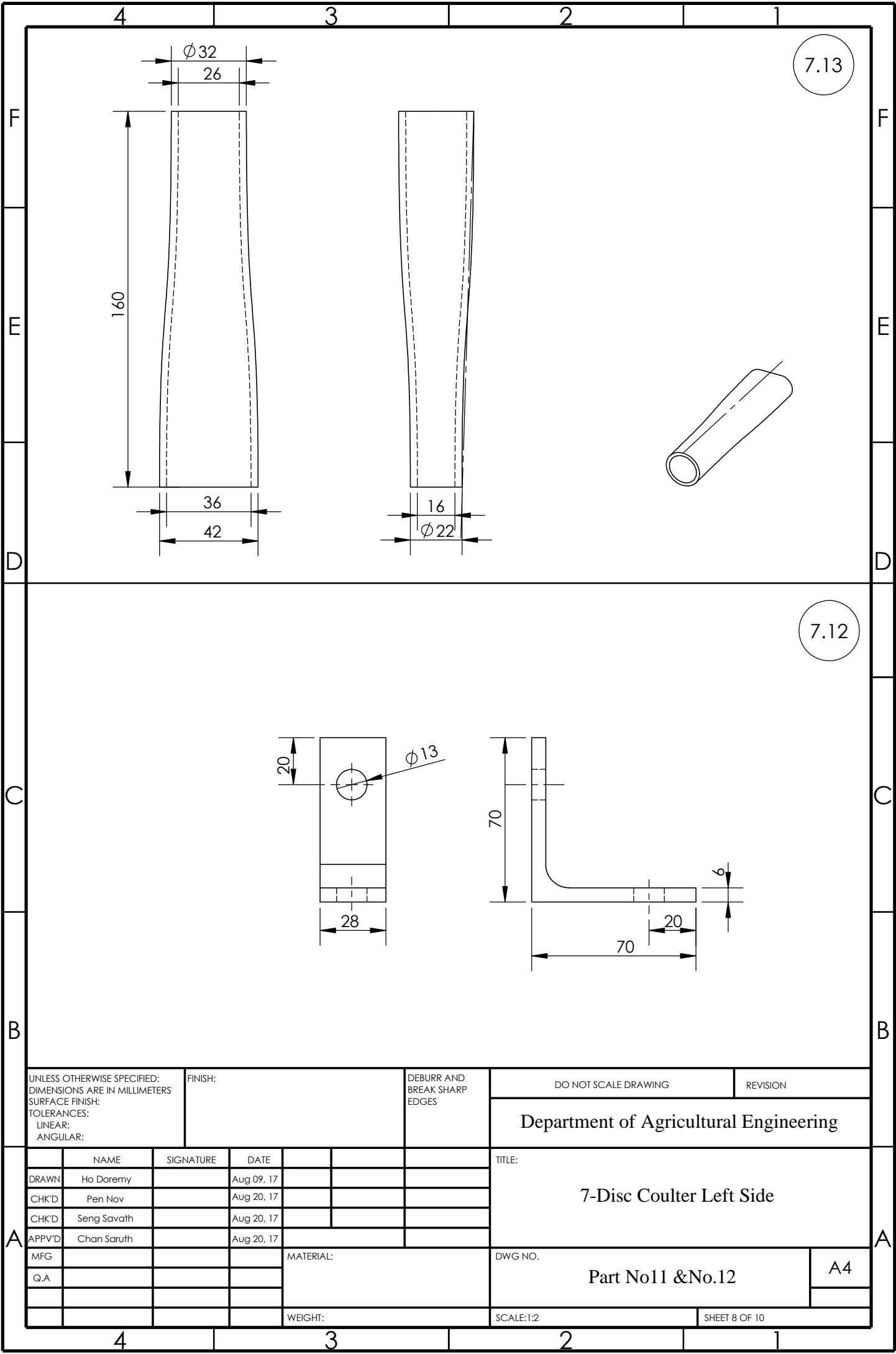
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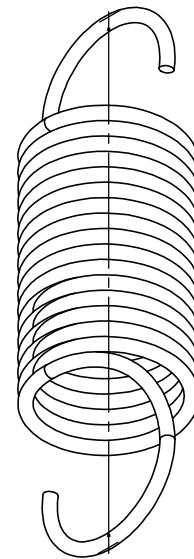
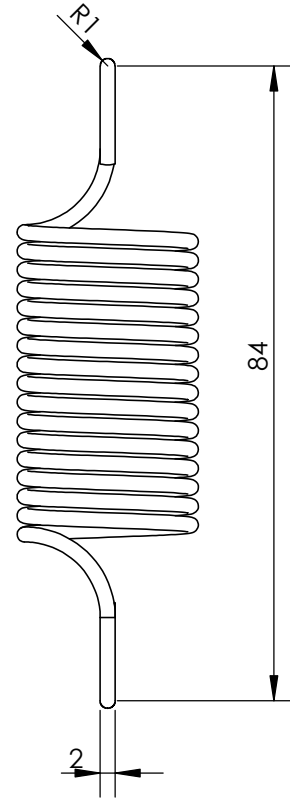
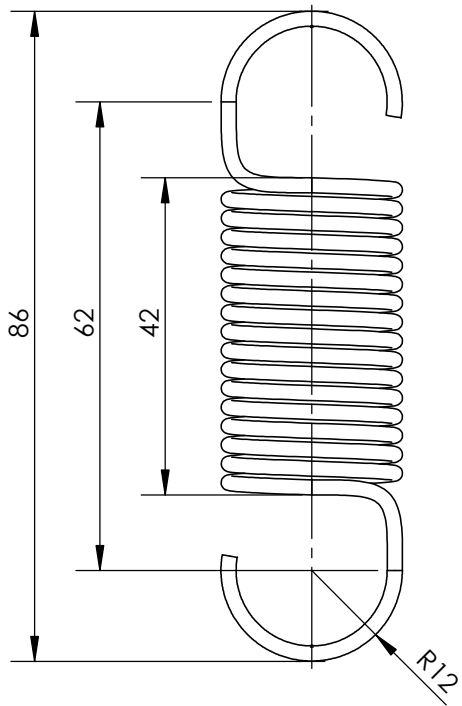
SCALE:1:2

SHEET 5 OF 10









UNLESS OTHERWISE SPECIFIED:
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ANGULAR:

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BREAK SHARP
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DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 17			
CHK'D	Pen Nov		Aug 20, 17			
CHK'D	Seng Savath		Aug 20, 17			
APPVD	Chan Saruth		Aug 20, 17			
MFG				MATERIAL:		
Q.A						
				WEIGHT:		

TITLE:

7-Disc Coulter Left Side

DWG NO.

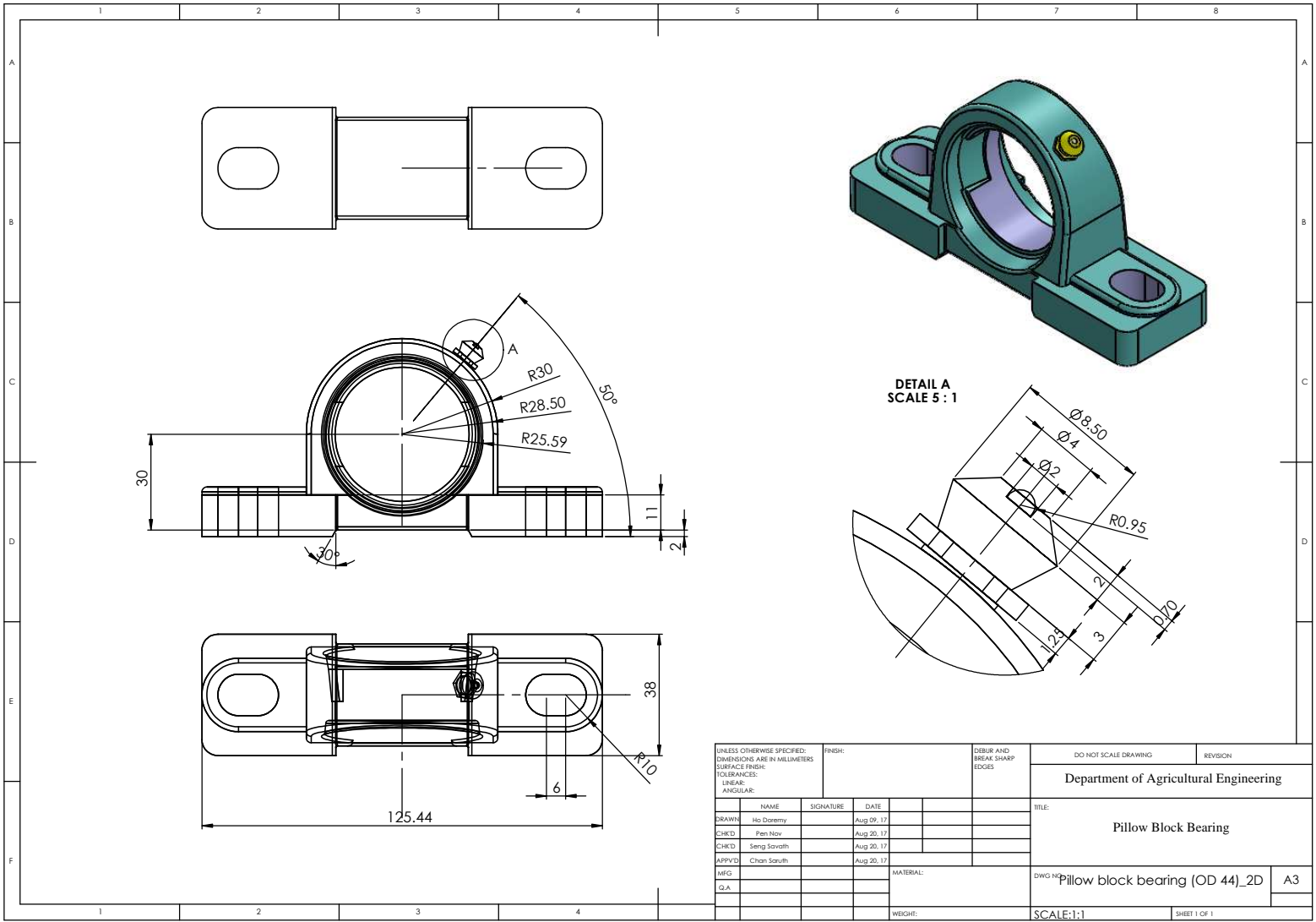
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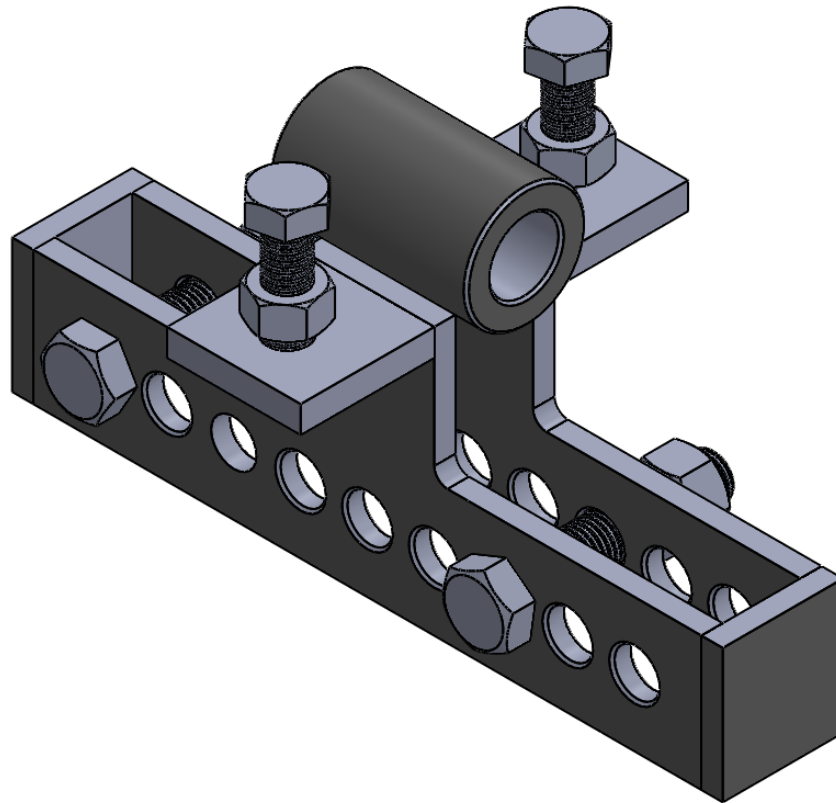
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SHEET 9 OF 10

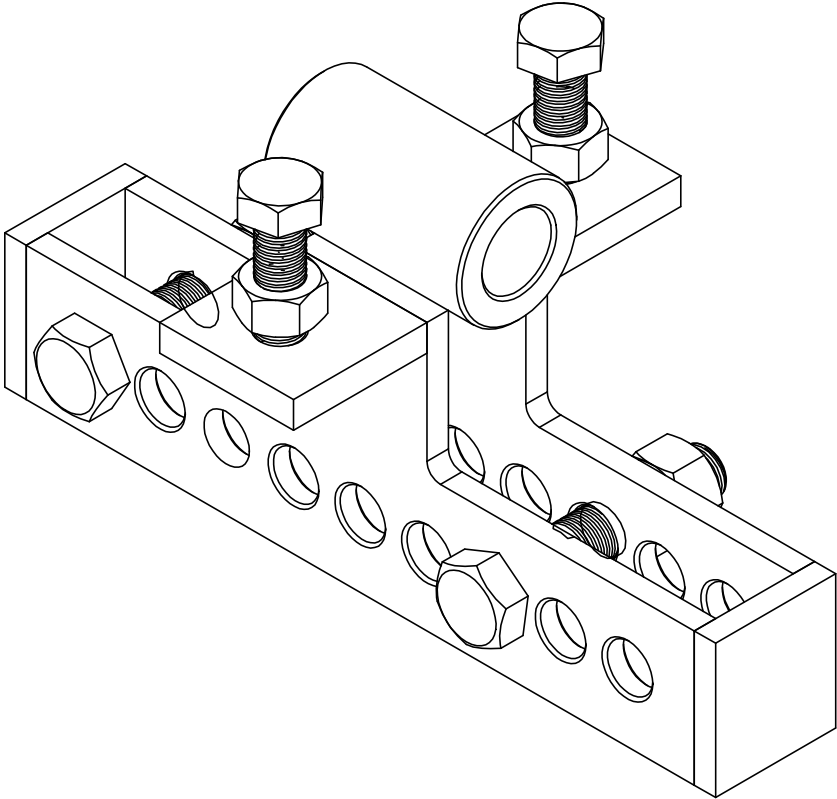
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION																																												
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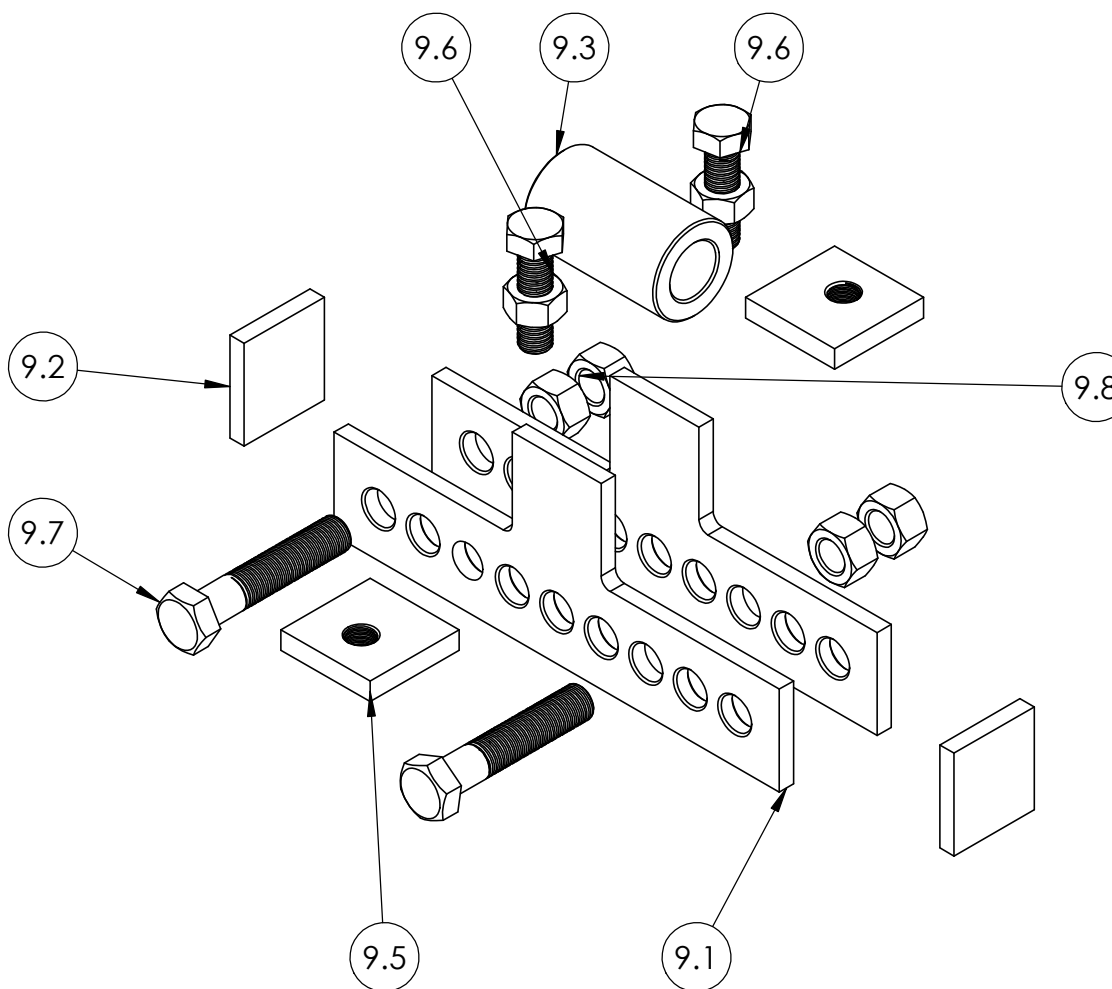


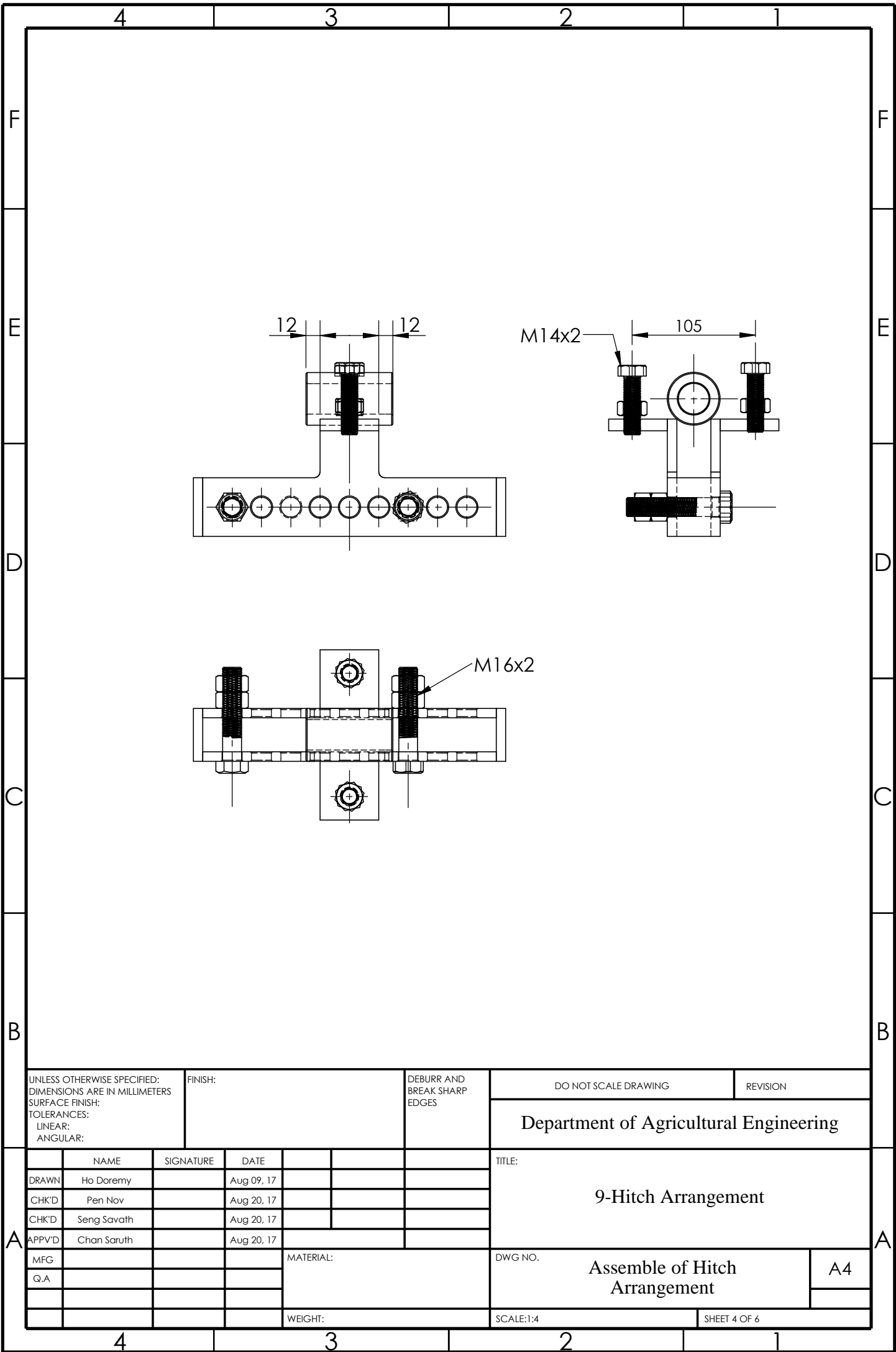
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								Department of Agricultural Engineering	
								TITLE:	
								Pillow Block Bearing	
DRAWN	Ho Doremy	SIGNATURE	DATE					DWG NO: Pillow block bearing (OD 44)_2D	
CHK'D	Pen Noy		Aug 09, 17					A3	
CHK'D	Pen Noy		Aug 20, 17						
CHK'D	Seng Savath		Aug 20, 17						
APP'VD	Chan Saruth		Aug 20, 17						
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Q.A.									
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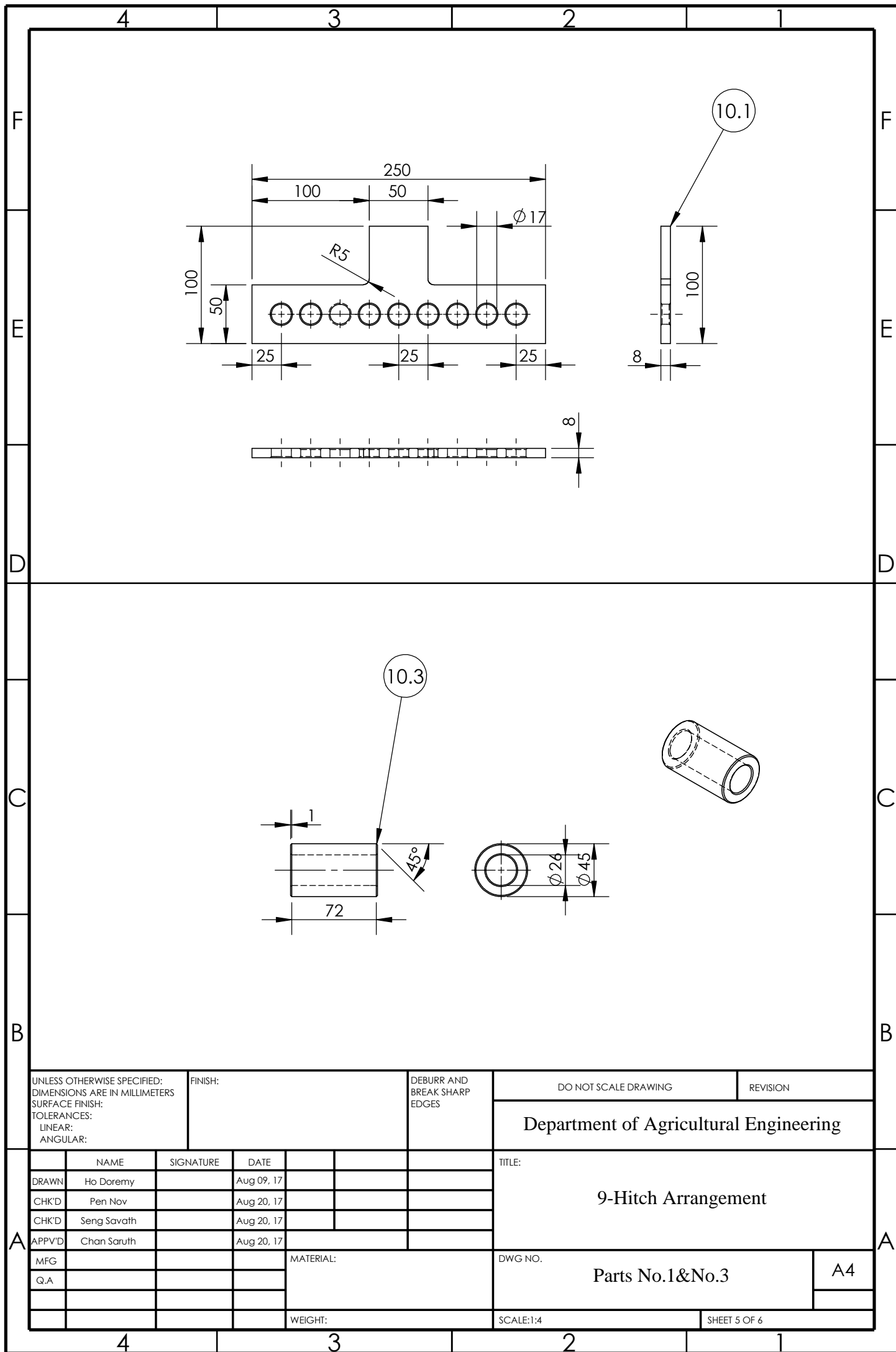


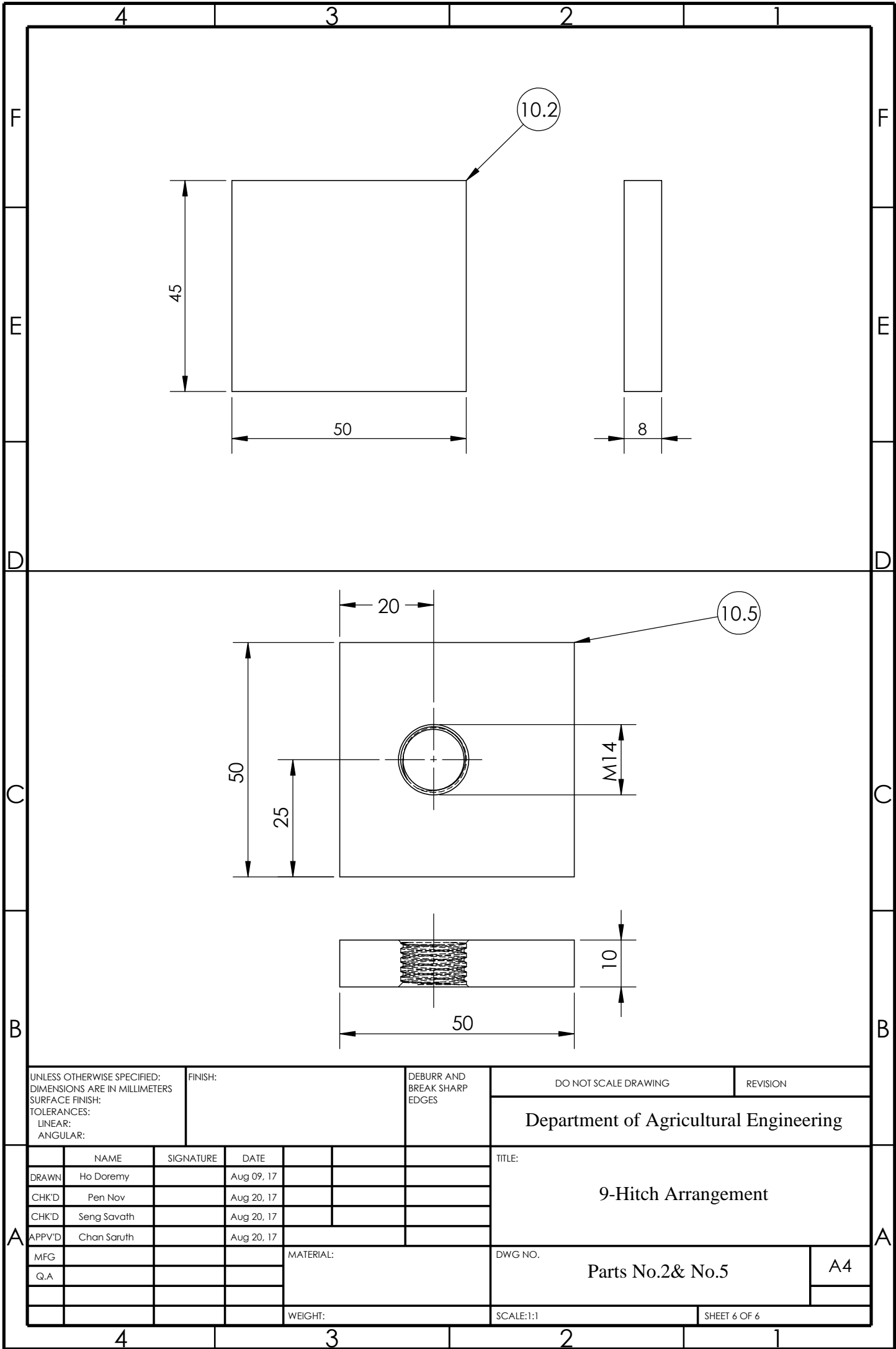
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								Department of Agricultural Engineering			
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								SCALE:1:2			
								SHEET 1 OF 6			

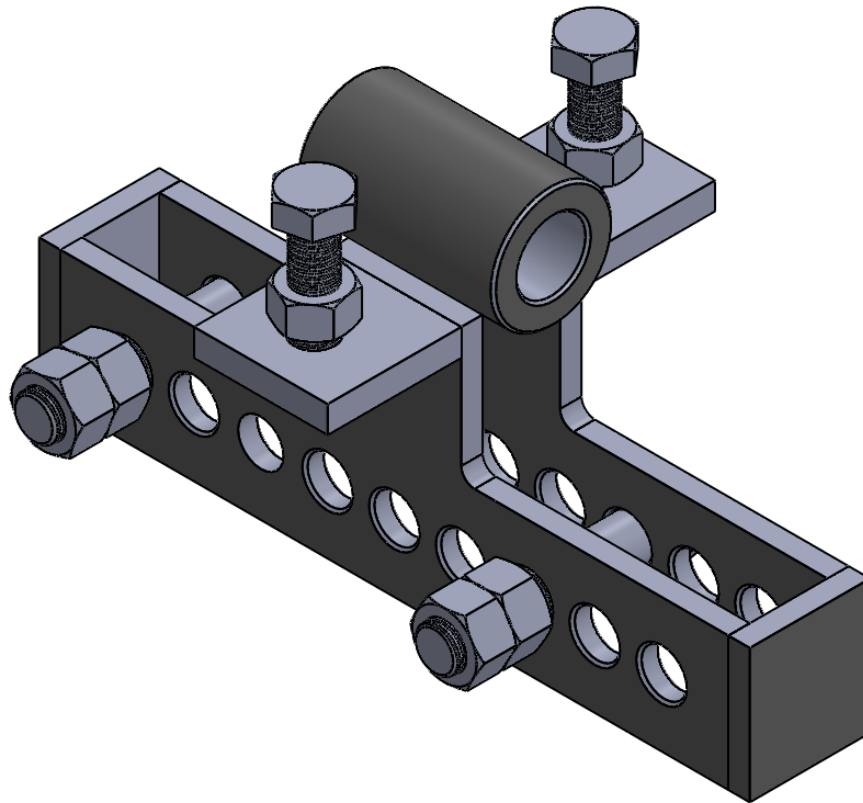
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						REVISION	
						Department of Agricultural Engineering	
						TITLE:	
						9-Hitch Arrangement	
						DWG NO.	
						Assem of Hitch Arrangement	
						A4	
						SCALE:1:2	
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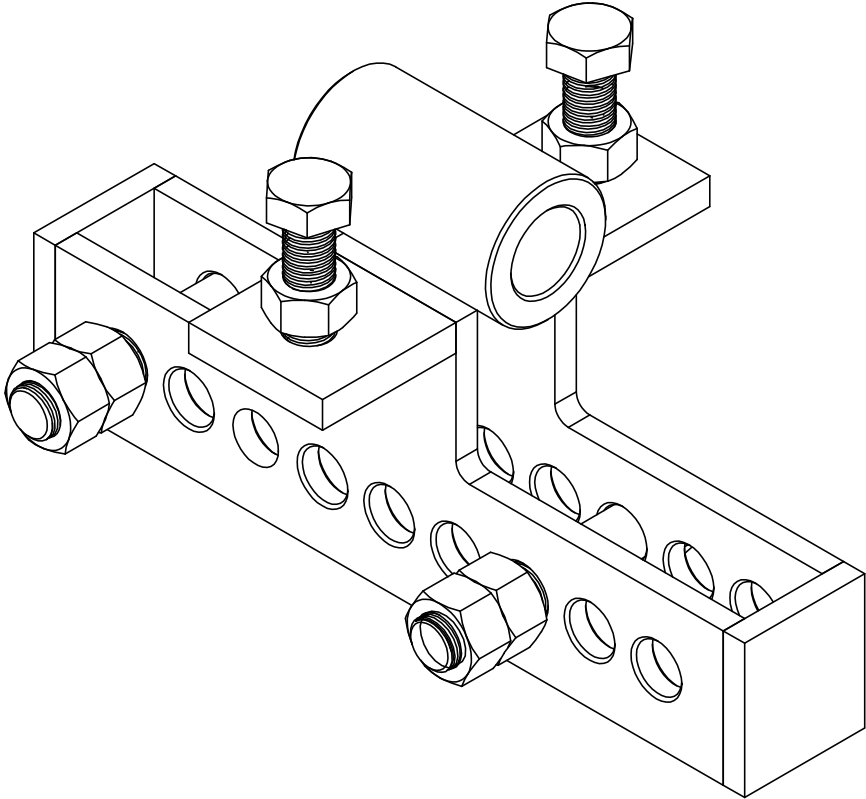


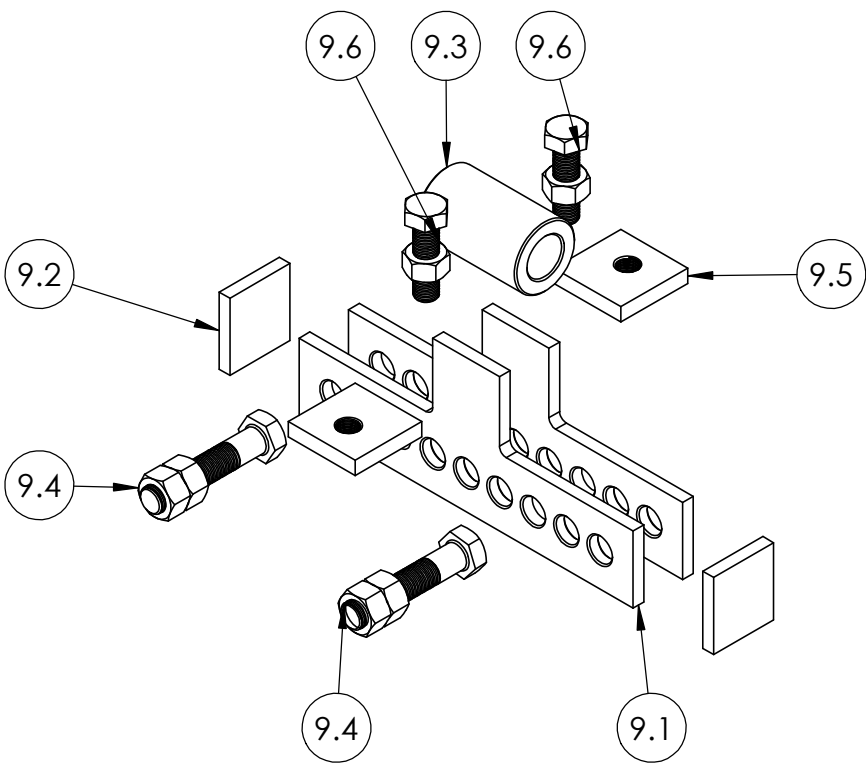


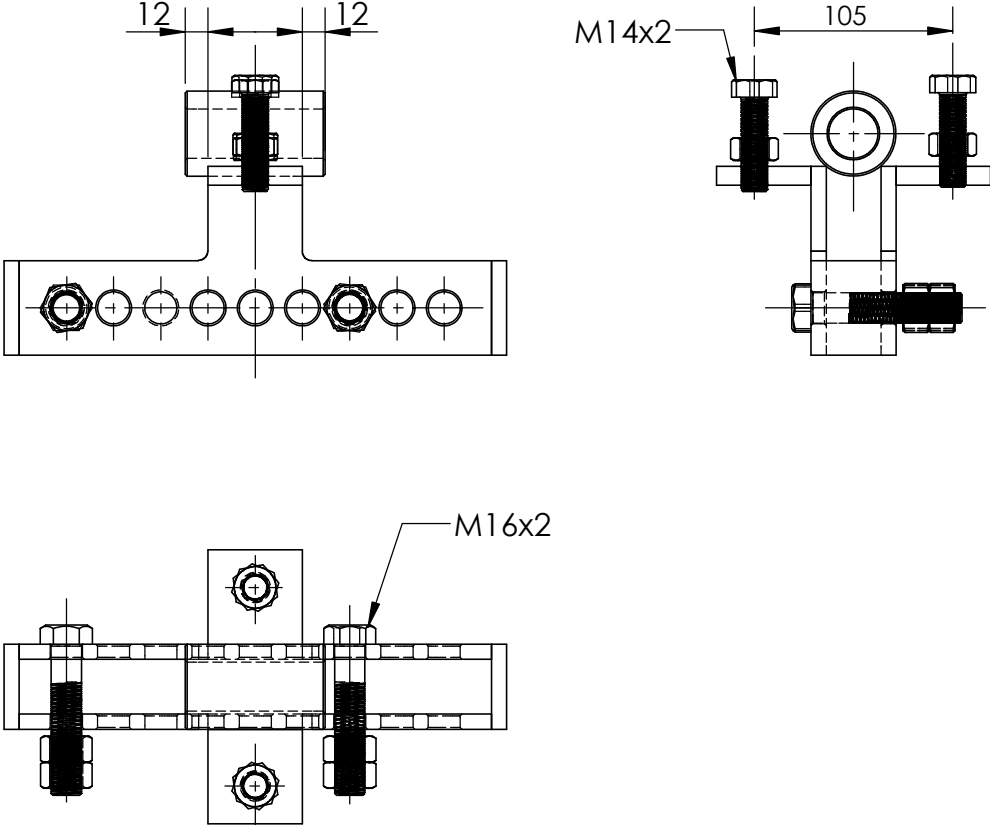


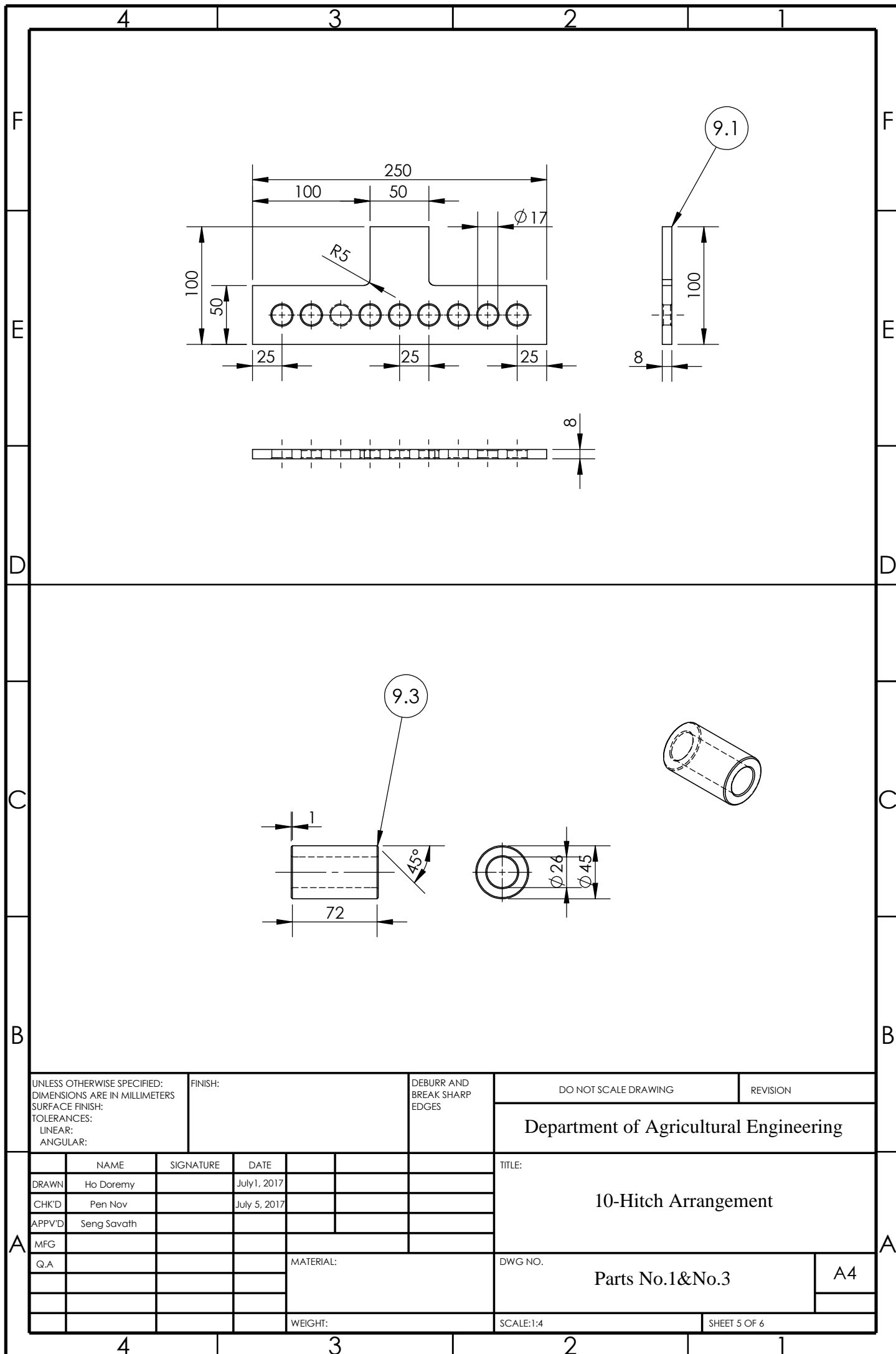


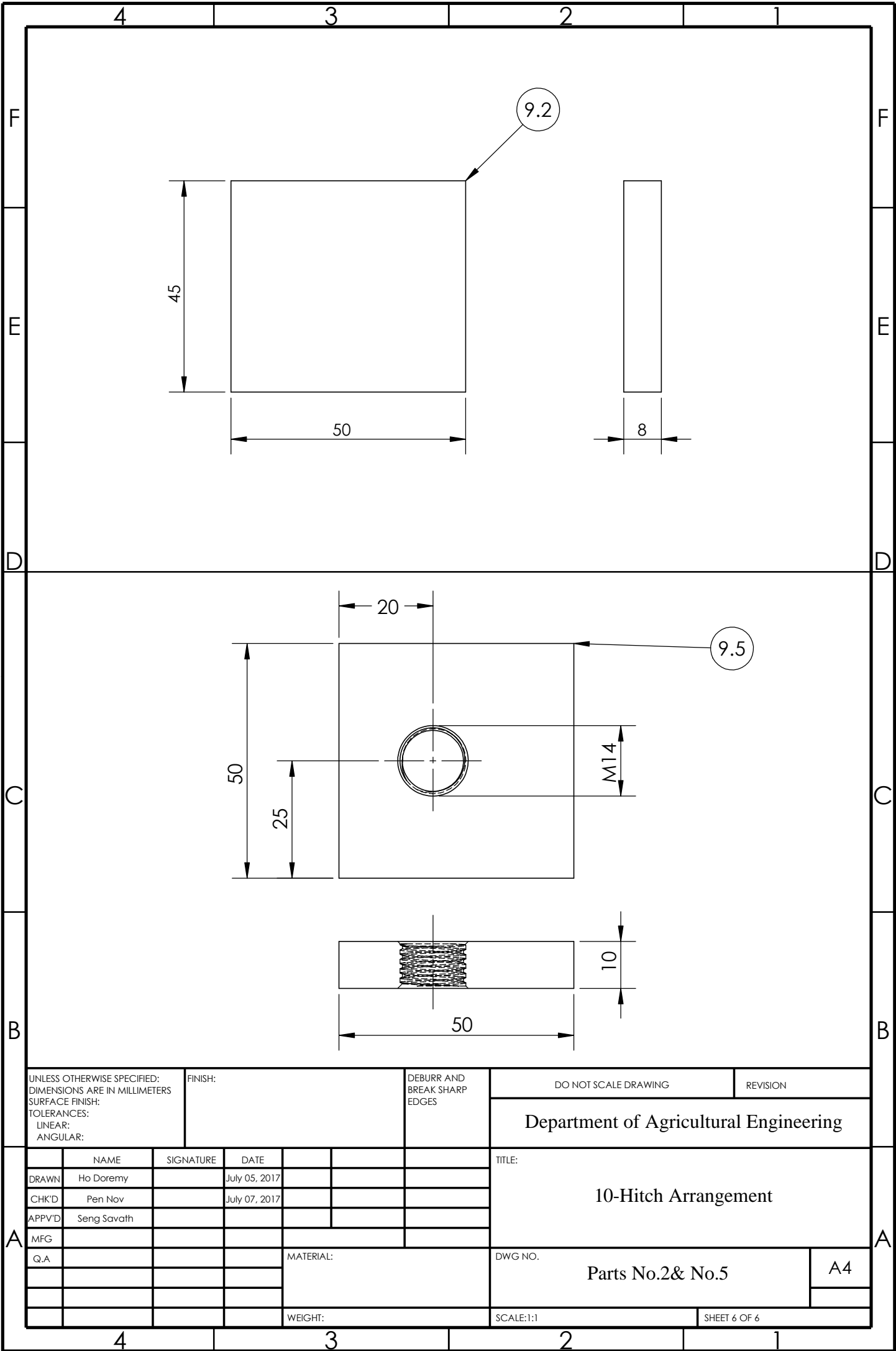
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								Department of Agricultural Engineering			
NAME		SIGNATURE		DATE				TITLE: 10-Hitch Arrangement			
DRAWN Ho Doremy				July 05, 2017							
CHK'D Pen Nov				July 07, 2017							
APPV'D Seng Savath											
MFG											
Q.A						MATERIAL:		DWG NO.			
								Assem of Hitch Arrangement			
								A4			
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								SHEET 1 OF 6			

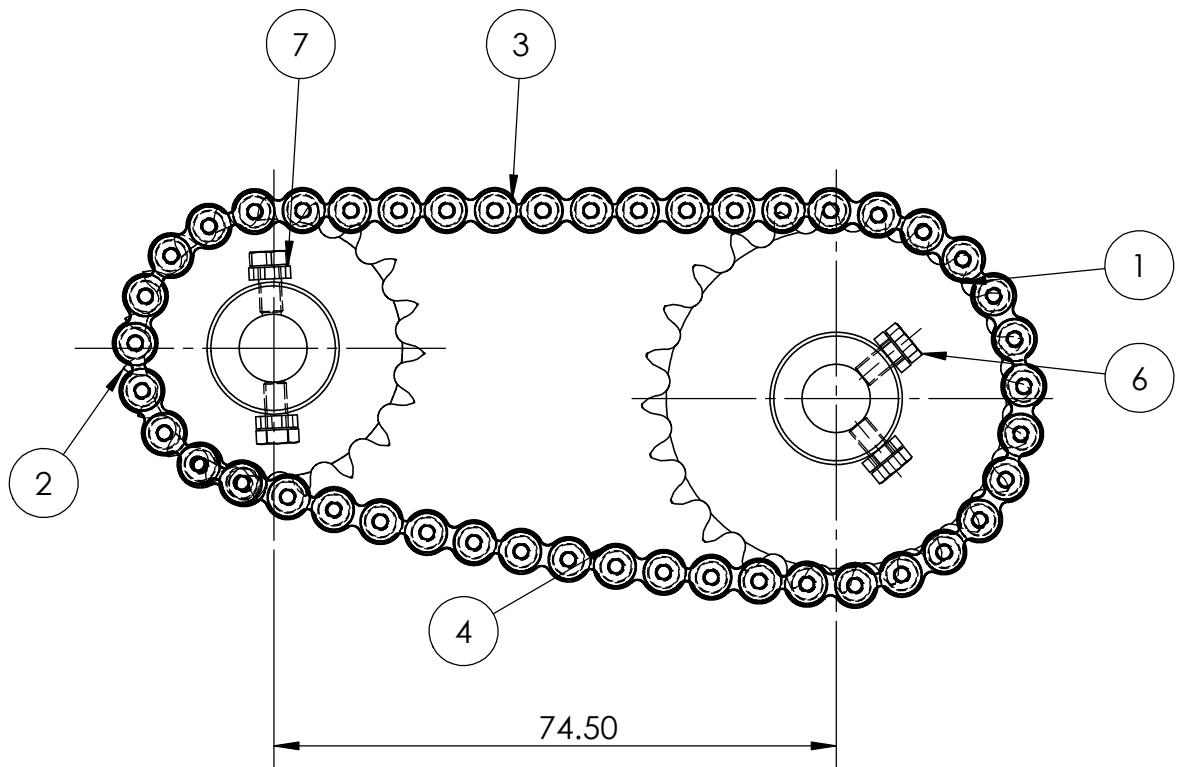
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						DWG NO.	
						Assem of Hitch Arrangement	
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						SCALE:1:2	
					SHEET 2 OF 6		
4		3		2		1	

	4	3	2	1					
F					F				
E					E				
D					D				
C					C				
B	ITEM NO.	PART NUMBER		DESCRIPTION	QTY.				
	9.1	Part No. 1			2				
	9.2	Part No. 2			2				
	9.3	Part No. 3		72 x 26 ID x 45 OD	1				
	9.4	Part No. 4 M16 (Bolt and Nut)		M16 x 2 x 80	2				
	9.5	Part No. 5		Thread plate M14	2				
	9.6	Part No. 6 M12 (Bolt and Nut)		M14 x 2 x 50	2				
A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION	
			Department of Agricultural Engineering						
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	CHK'D	Pen Nov							
	APPV'D	Seng Savath							
	MFG			DWG NO. Hitch (Exploded View)					
	Q.A								
			MATERIAL:		A4				
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	MFG									
		Q.A			MATERIAL:		DWG NO.		A4	
				WEIGHT:		SCALE:1:4		SHEET 4 OF 6		
	4	3	2	1						







ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Sprocket with 24 teeth	24 teetch	1
2	Sprocket with 19 teeth	19 teetch	1
3	Inner chain		23
4	Outer chain		23
6	Bolt and nut	M6x1x20	4
7	Washere	M4	4

UNLESS OTHERWISE SPECIFIED:
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ANGULAR:

FINISH:

DEBURR AND
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Department of Agriculture Engineering

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		Aug 09, 17			
CHK'D	Pen Nov		Aug 20, 17			
CHK'D	Seng Savath		Aug 20, 17			
APPV'D	Chan Saruth		Aug 20, 17			
MFG						
Q.A						

TITLE:

Assembly of Chain and Sprocket

DWG NO.

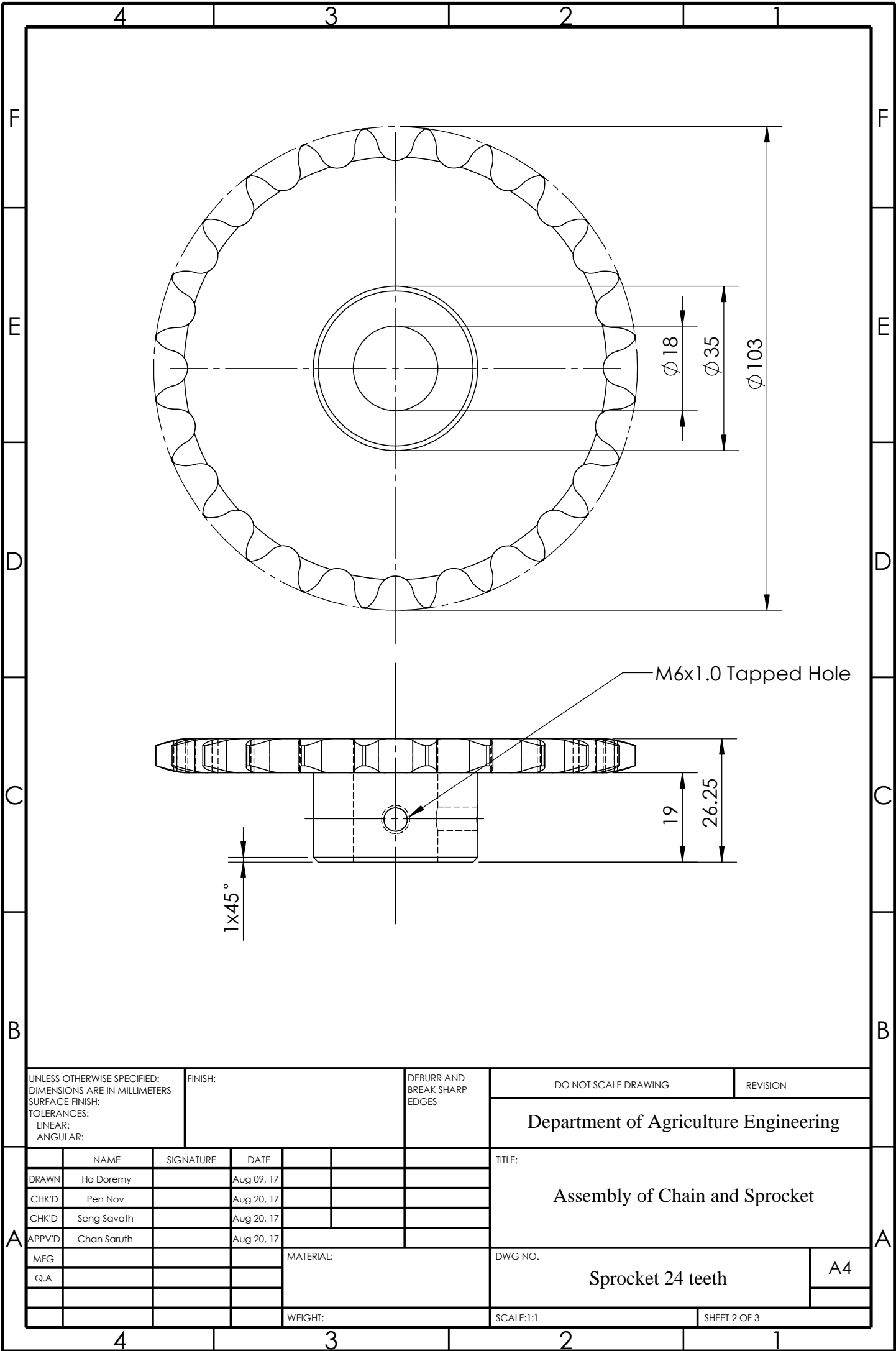
Chain and sprocket assem (19&24)

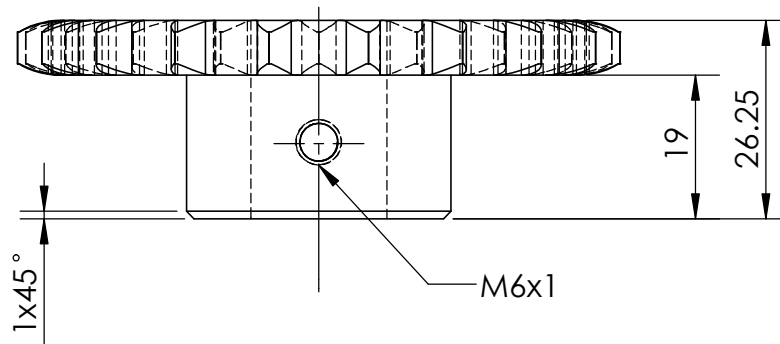
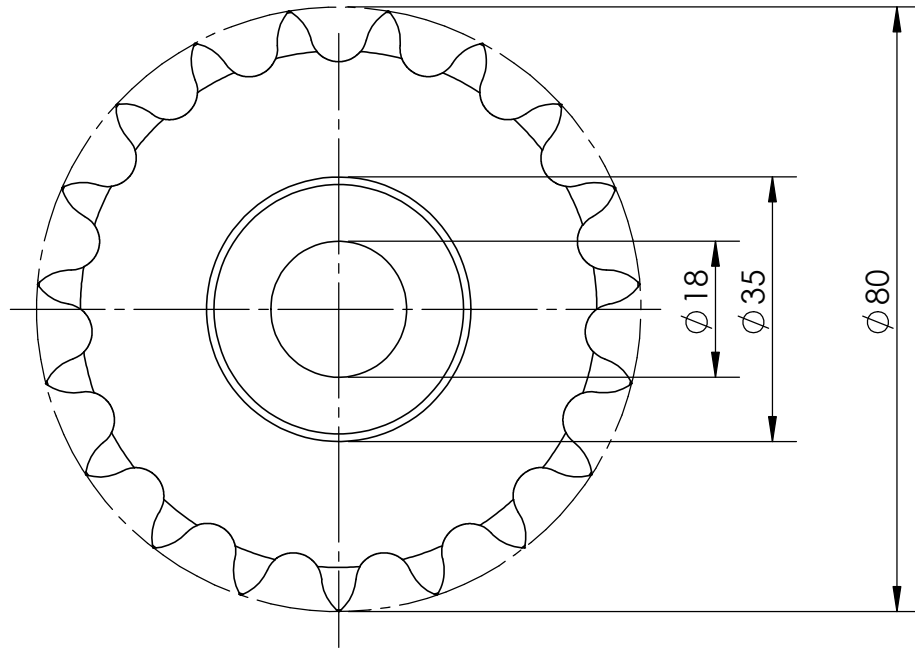
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WEIGHT:

SCALE:1:2

SHEET 1 OF 3





UNLESS OTHERWISE SPECIFIED:
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DEBURR AND
BREAK SHARP
EDGES

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REVISION

Department of Agriculture Engineering

TITLE:

Assembly of Chain and Sprocket

DWG NO.

Sprocket 19 teeth

A4

WEIGHT:

SCALE:1:1

SHEET 3 OF 3

NAME	SIGNATURE	DATE			
DRAWN Ho Doremy		Aug 09, 17			
CHK'D Pen Nov		Aug 20, 17			
CHK'D Seng Savath		Aug 20, 17			
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MATERIAL:

DWG NO.

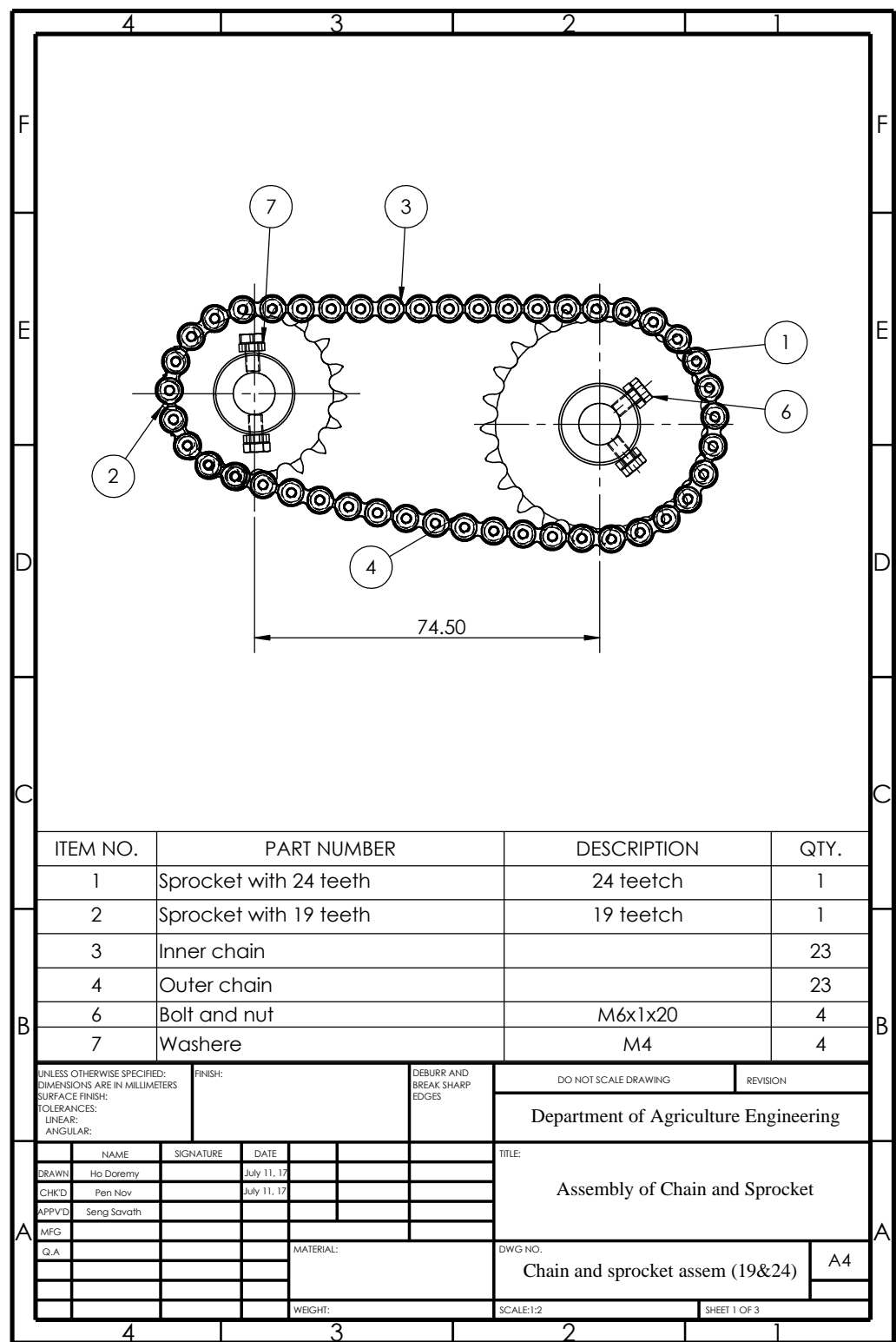
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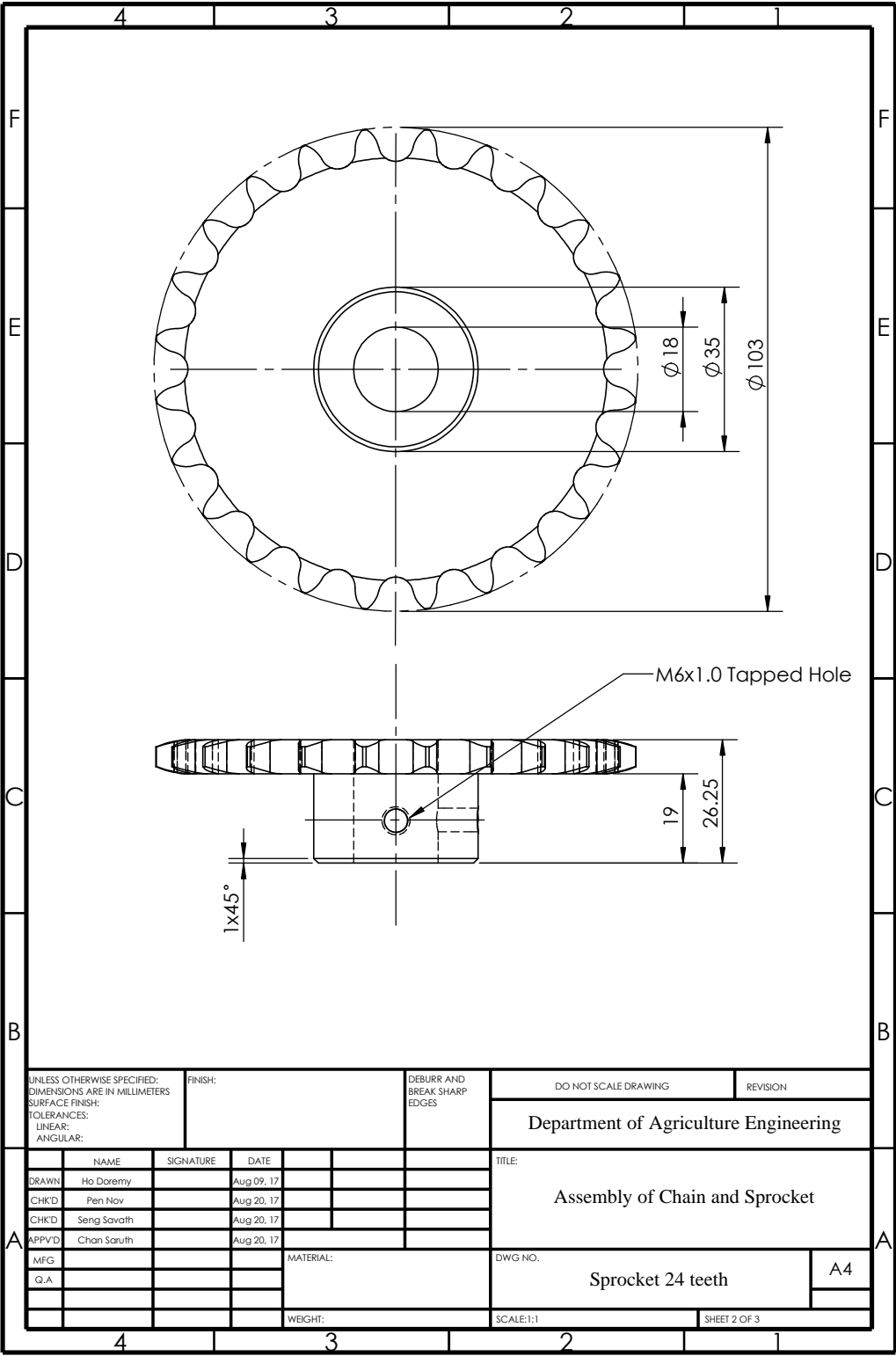
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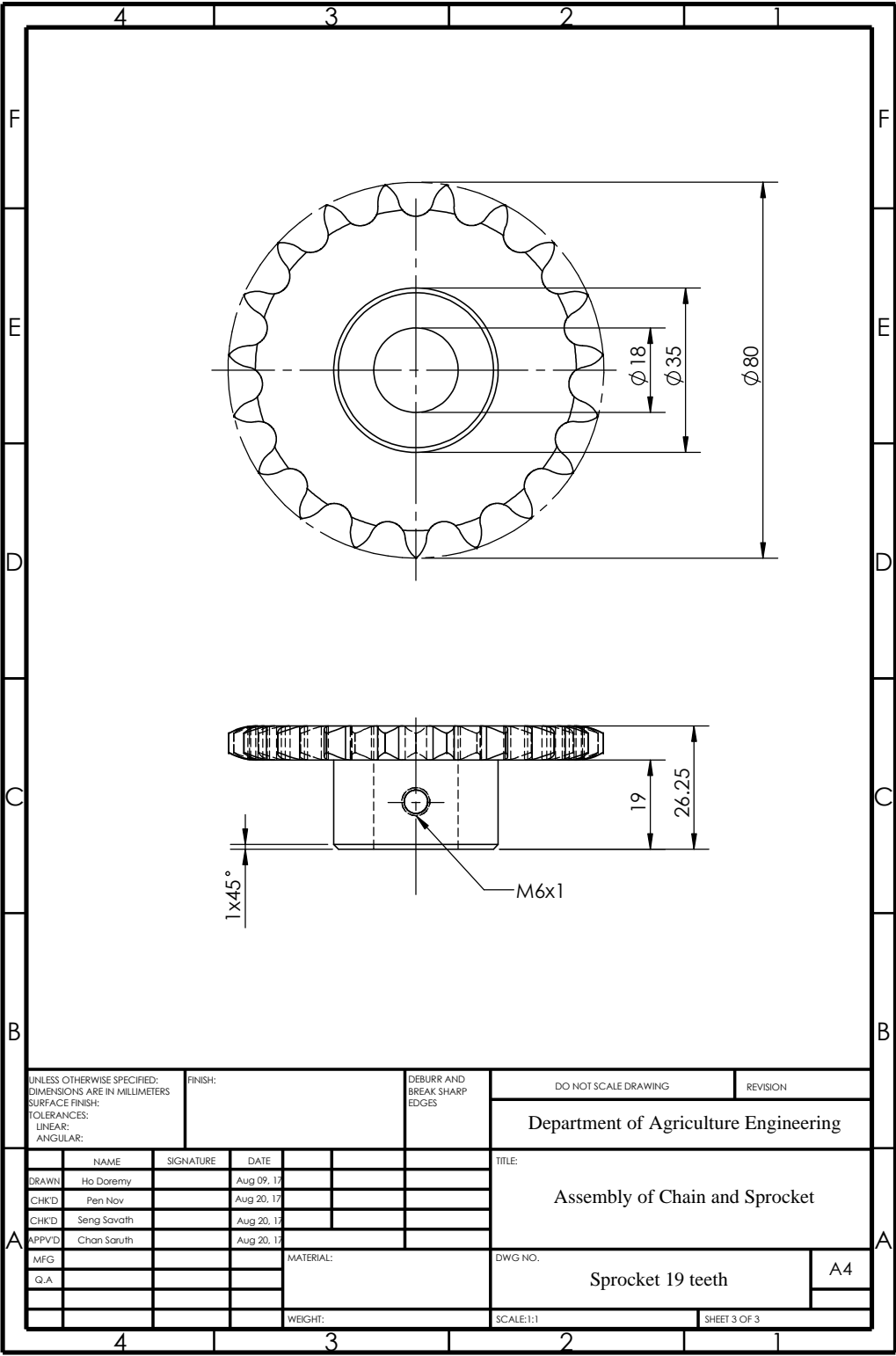
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SCALE:1:1

SHEET 3 OF 3







UNLESS OTHERWISE SPECIFIED:
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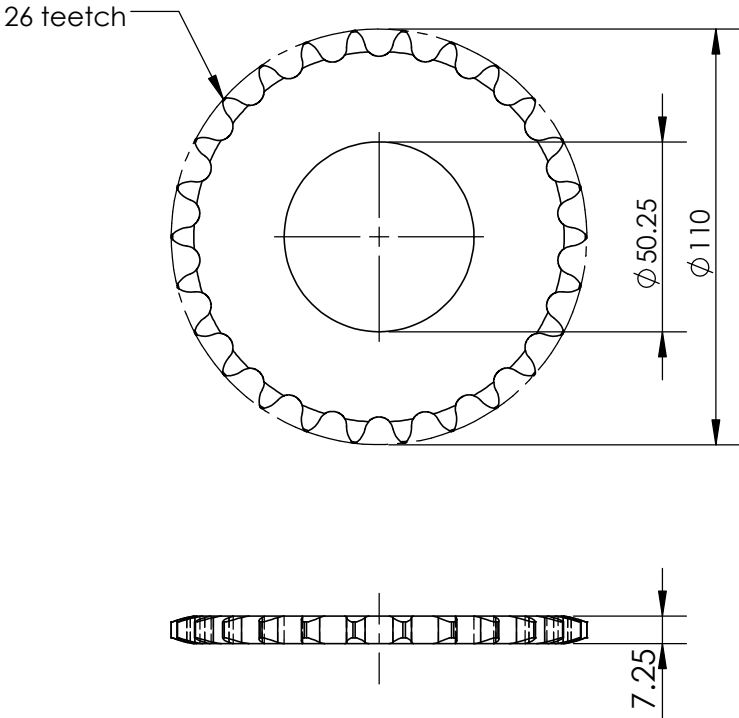
Sprocket 19 teeth

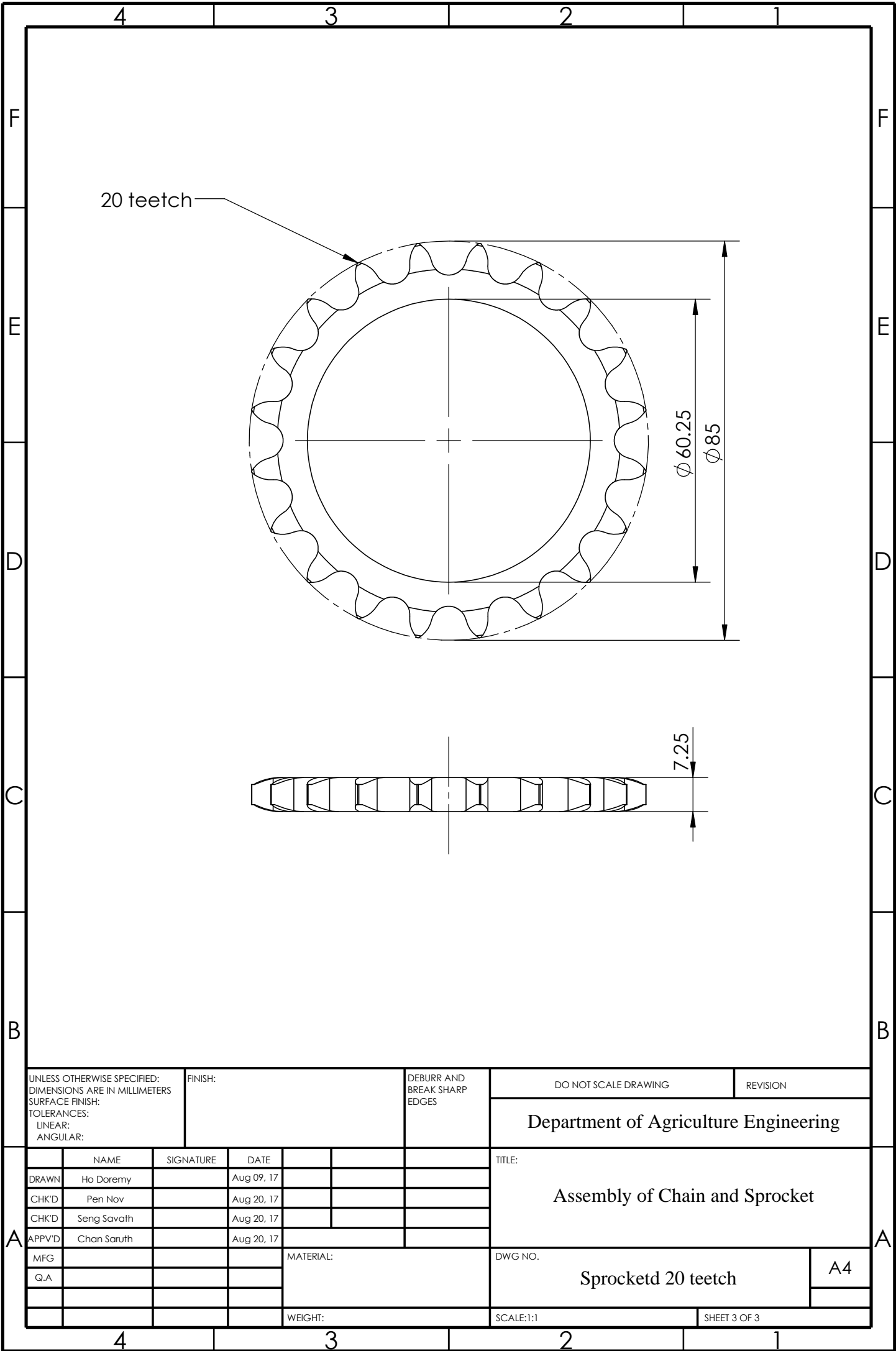
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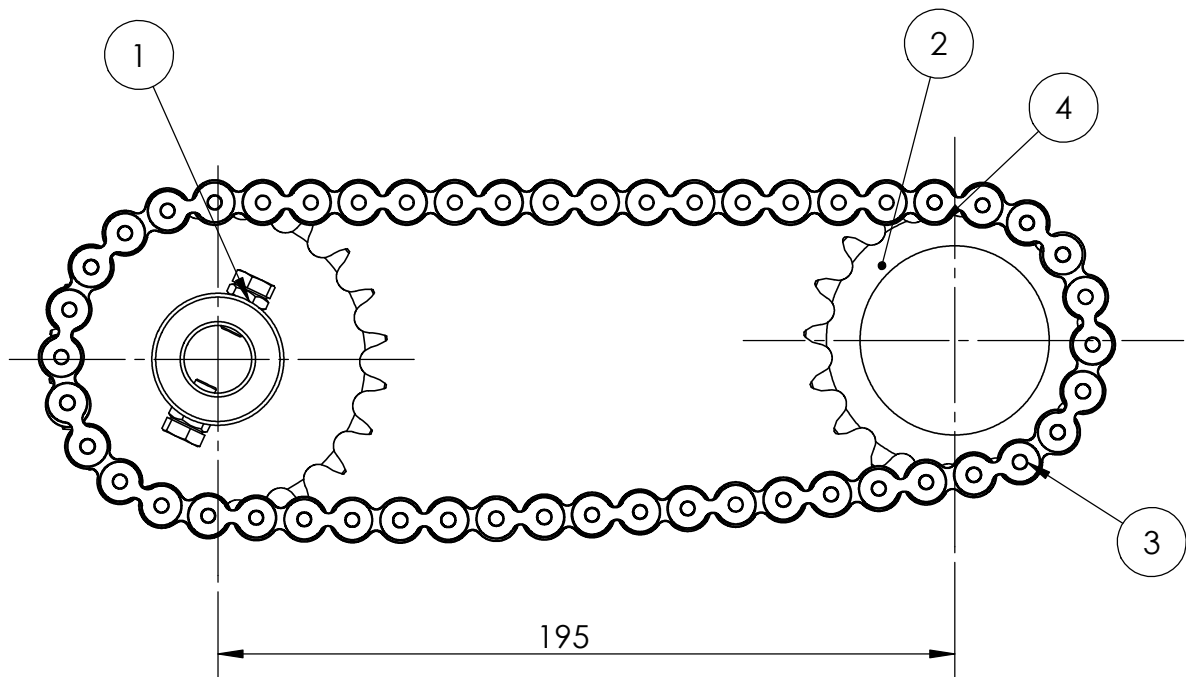
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SHEET 3 OF 3

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Sprocket with 22 teeth	22 teetch	1
2	Part No.6, Sprocket	18 teetch	1
6	GB_FASTENER_BOLT_HHBFTC M6X12-N		2
7	GB_FASTENER_NUT_STNAB M6-N		2

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Department of Agriculture Engineering

NAME	SIGNATURE	DATE			
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Assembly of Chain and Sprocket

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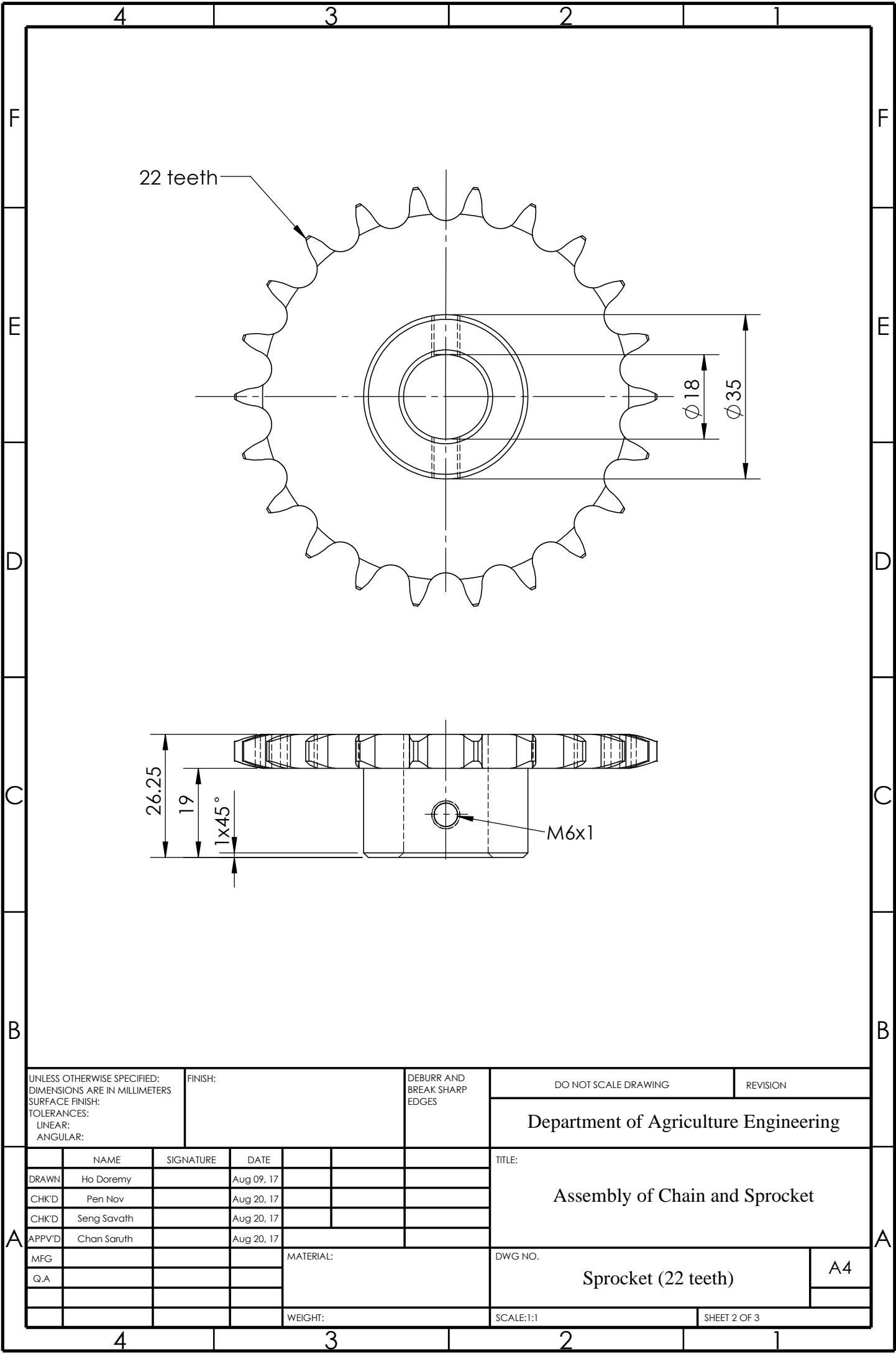
Chain sprocket assembly (22&18)

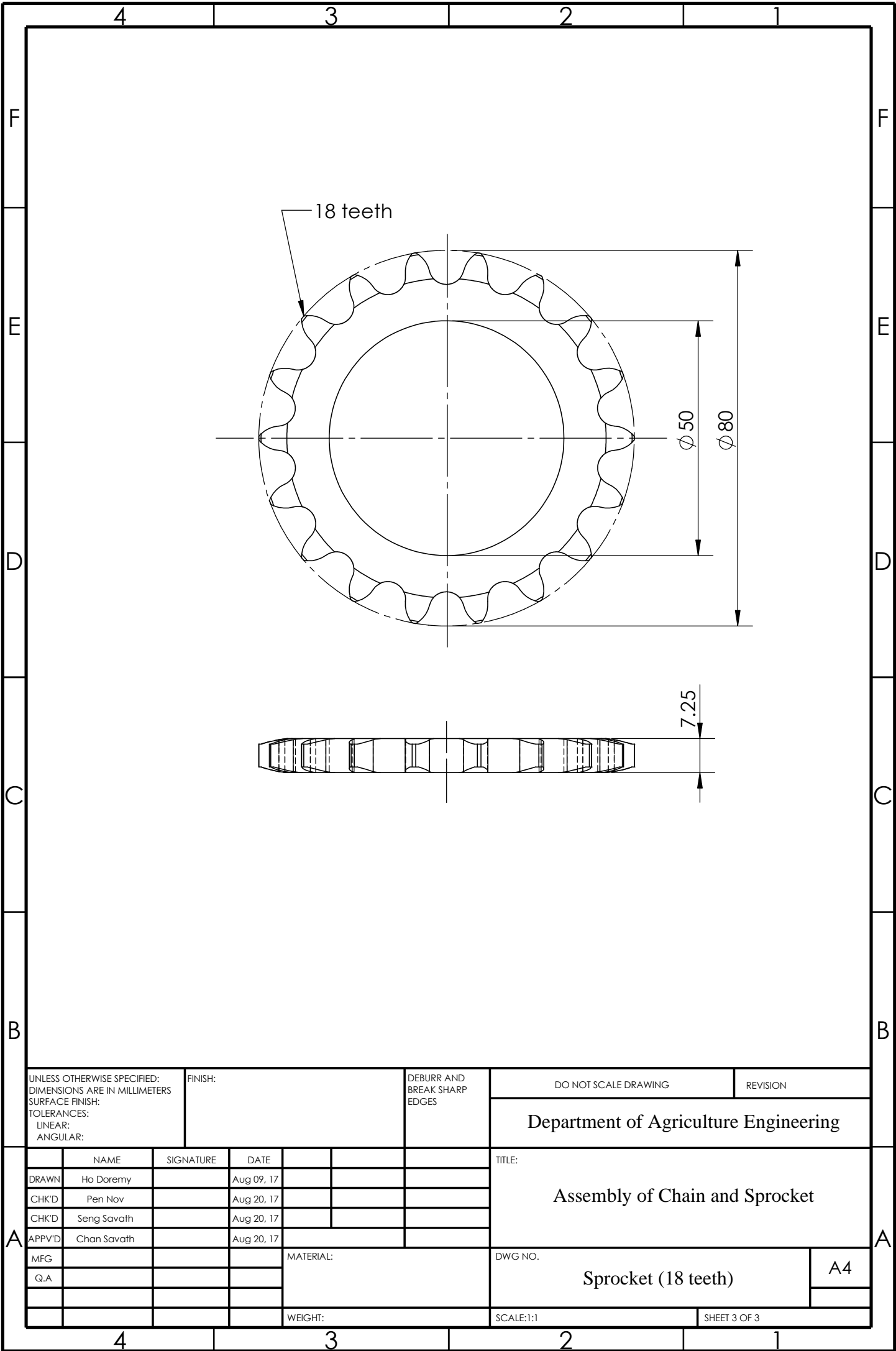
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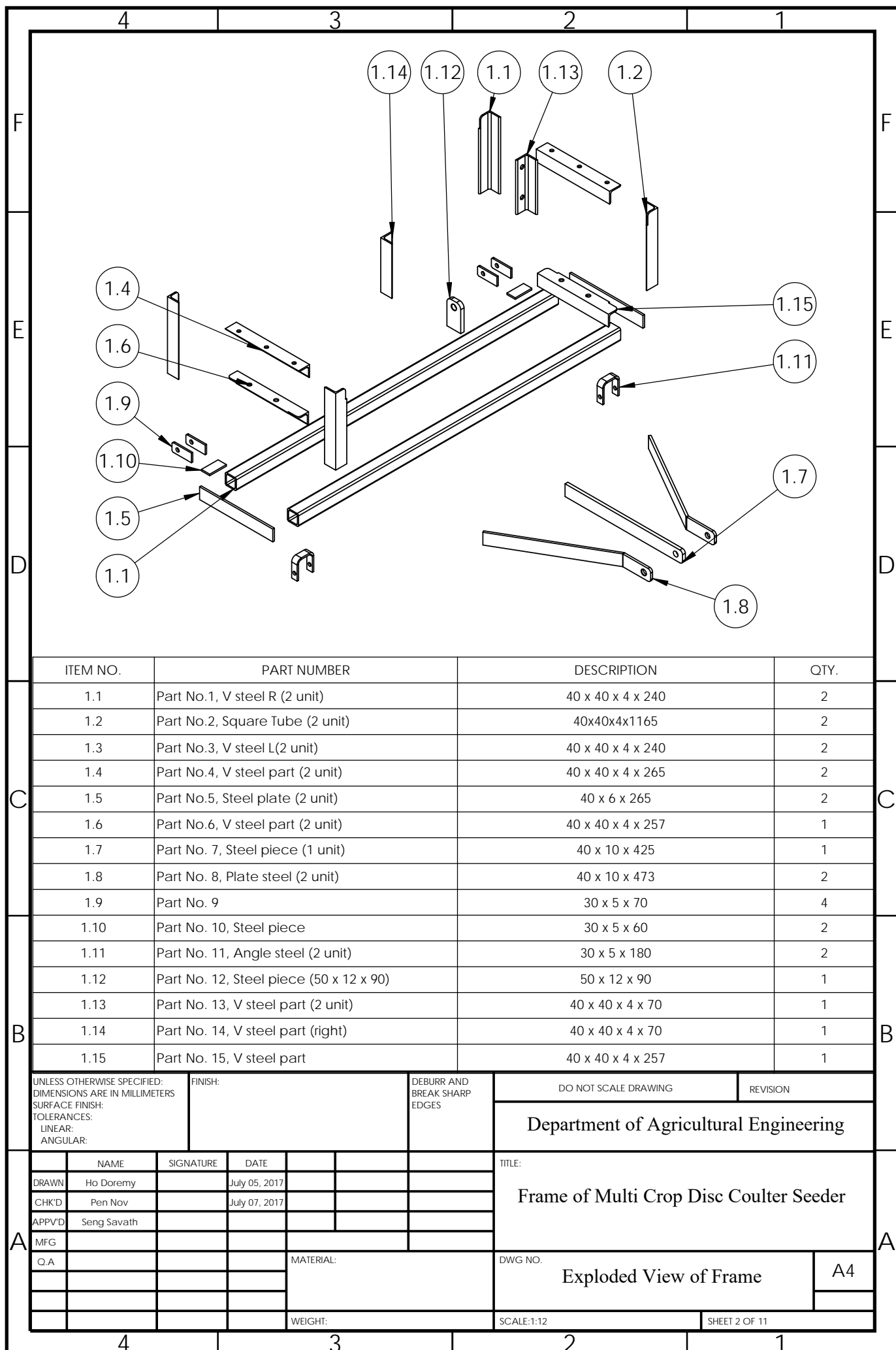
WEIGHT:

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SHEET 1 OF 3

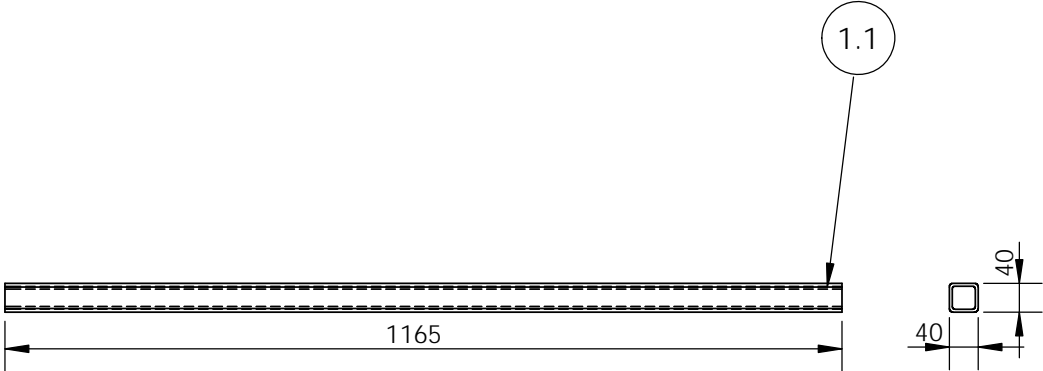
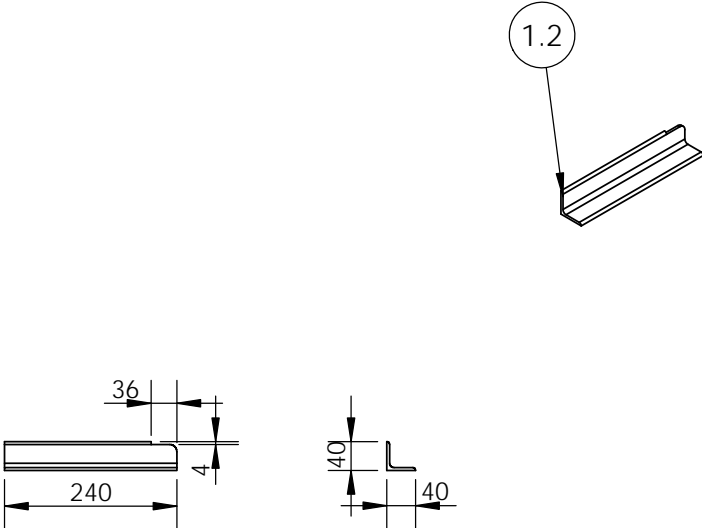


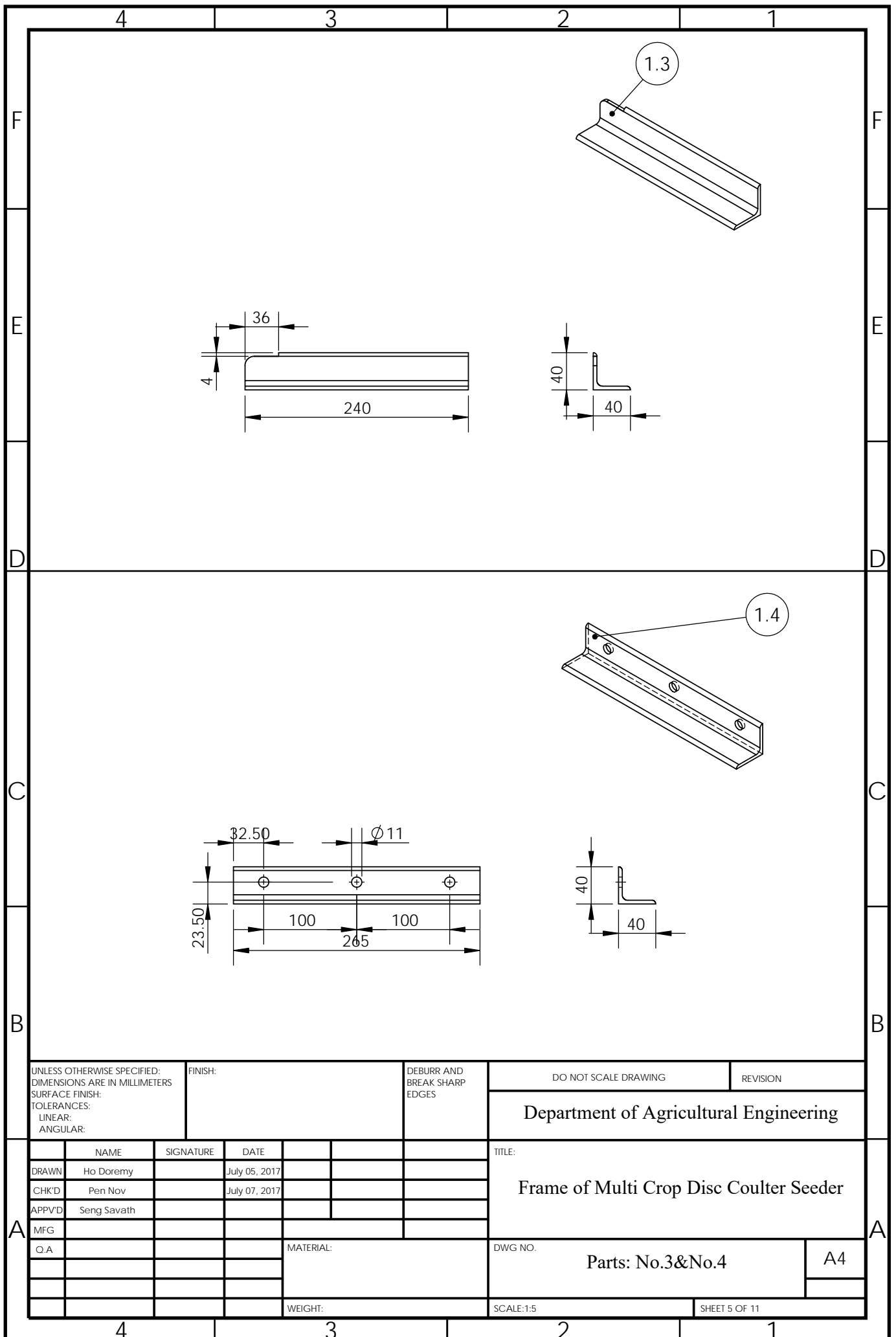


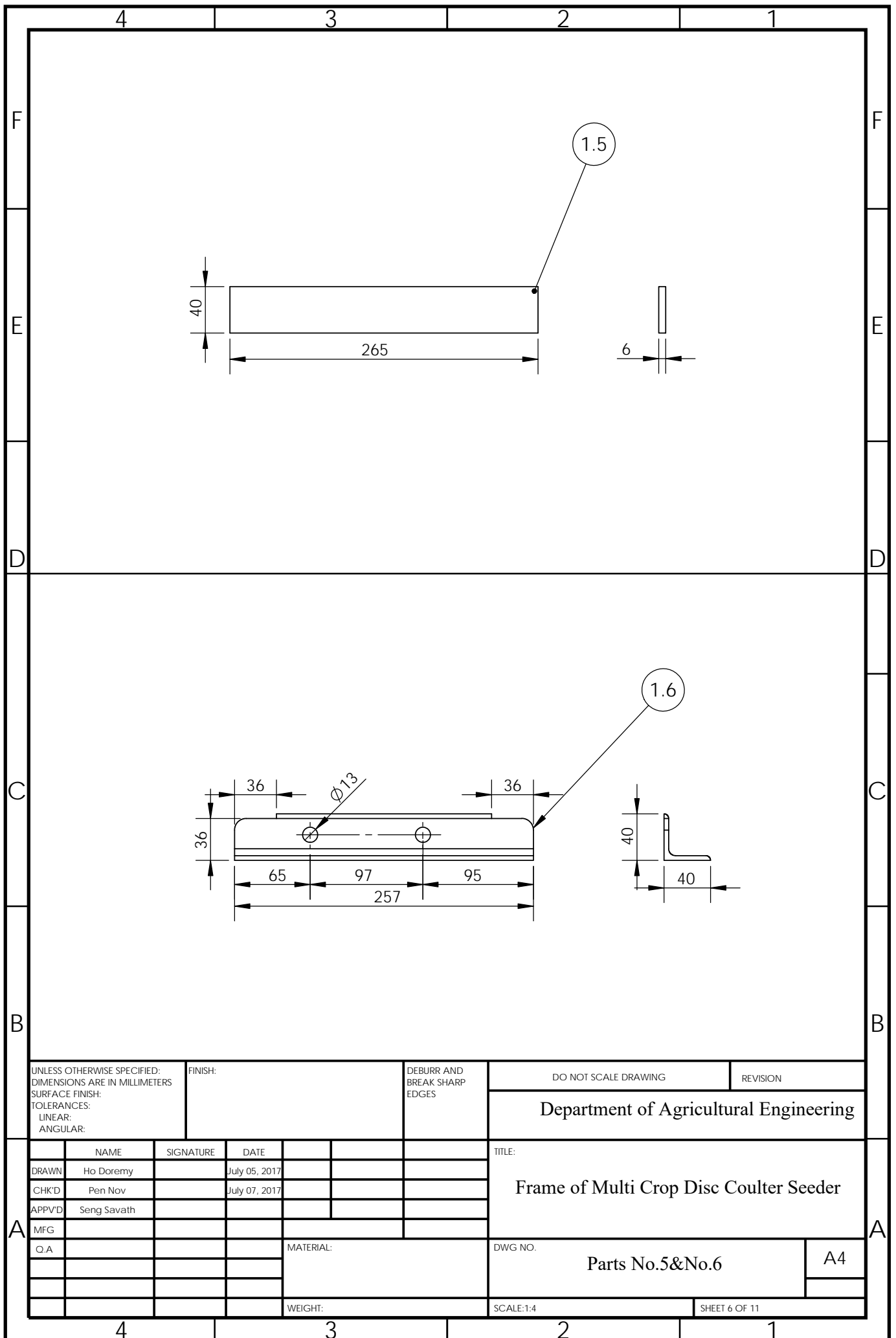


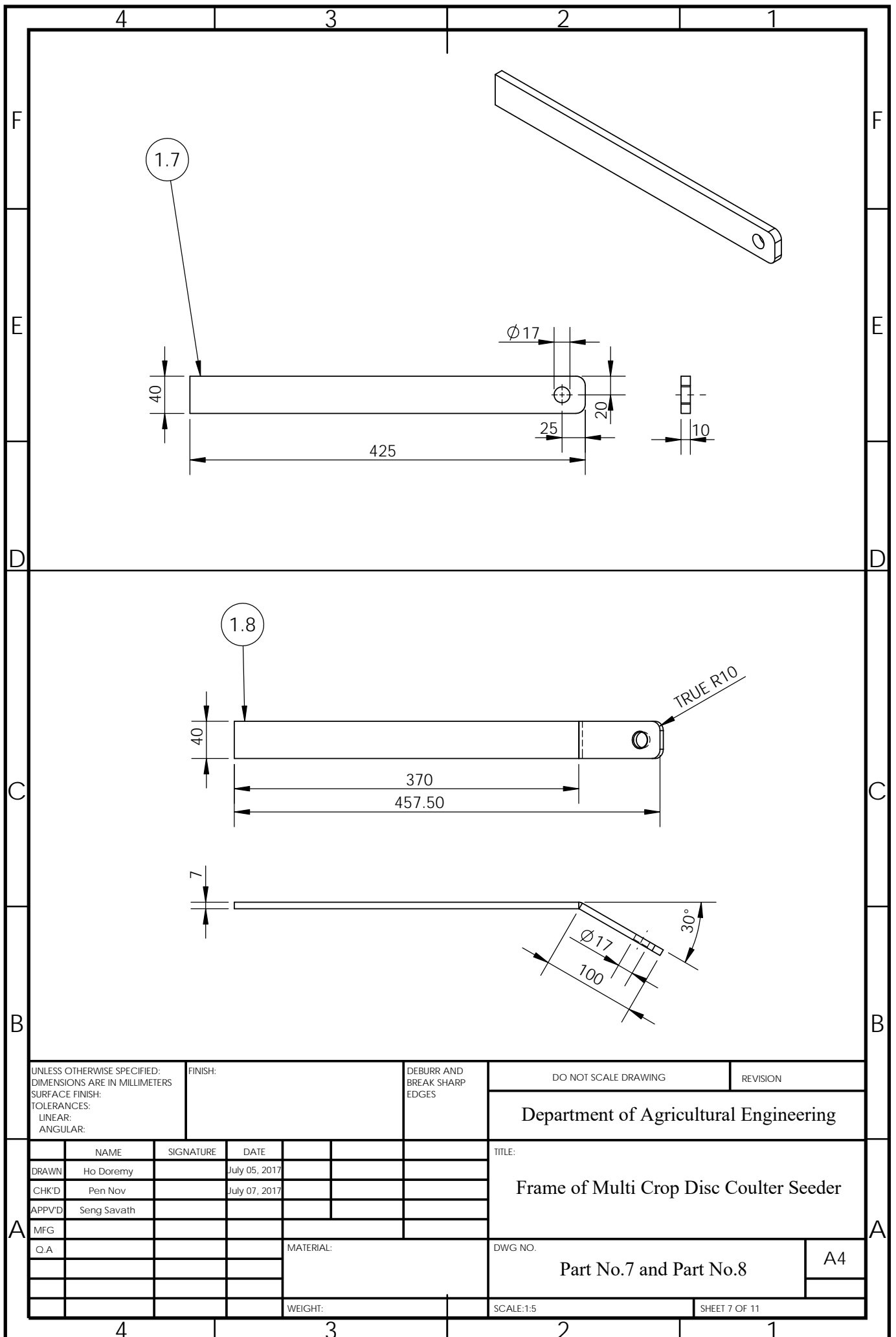
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1.2	Part No.2, Square Tube (2 unit)	40x40x4x1165	2
1.3	Part No.3, V steel L(2 unit)	40 x 40 x 4 x 240	2
1.4	Part No.4, V steel part (2 unit)	40 x 40 x 4 x 265	2
1.5	Part No.5, Steel plate (2 unit)	40 x 6 x 265	2
1.6	Part No.6, V steel part (2 unit)	40 x 40 x 4 x 257	1
1.7	Part No. 7, Steel piece (1 unit)	40 x 10 x 425	1
1.8	Part No. 8, Plate steel (2 unit)	40 x 10 x 473	2
1.9	Part No. 9	30 x 5 x 70	4
1.10	Part No. 10, Steel piece	30 x 5 x 60	2
1.11	Part No. 11, Angle steel (2 unit)	30 x 5 x 180	2
1.12	Part No. 12, Steel piece (50 x 12 x 90)	50 x 12 x 90	1
1.13	Part No. 13, V steel part (2 unit)	40 x 40 x 4 x 70	1
1.14	Part No. 14, V steel part (right)	40 x 40 x 4 x 70	1
1.15	Part No. 15, V steel part	40 x 40 x 4 x 257	1

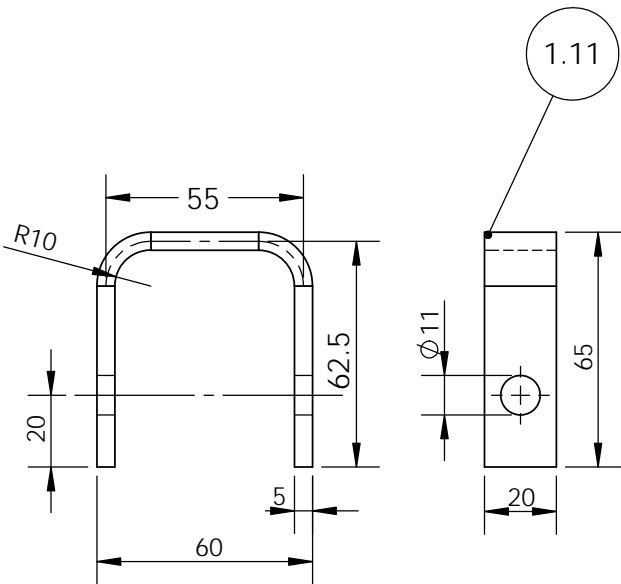
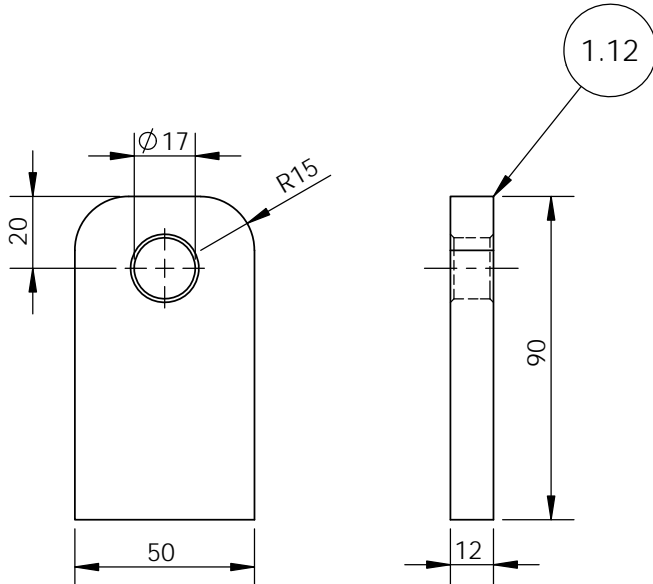
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						Department of Agricultural Engineering			
						TITLE:			
						Frame of Multi Crop Disc Coulter Seeder			
						DWG NO.			
						Exploded View of Frame			
						A4			
						SCALE:1:12			
						SHEET 2 OF 11			

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A	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	
	DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	
	REVISION		Department of Agricultural Engineering Title: Frame of Multi Crop Disc Coulter Seeder	
	NAME	SIGNATURE		DATE
	DRAWN	Ho Doremy		July 05, 2017
	CHK'D	Pen Nov		July 07, 2017
	APPV'D	Seng Savath		
	MFG			
	Q.A			
	MATERIAL:		DWG NO.	Parts: No.1&No.2
WEIGHT:		SCALE:1:10		
		SHEET 4 OF 11	A4	
4	3	2	1	



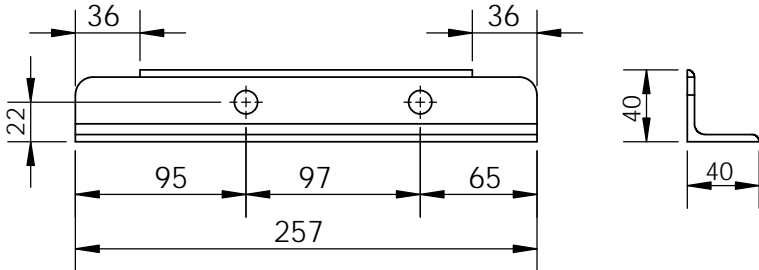




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							Department of Agricultural Engineering				
							TITLE:				
							Frame of Multi Crop Disc Coulter Seeder				
							DWG NO.				
							Parts No.11&No.12				
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							SHEET 9 OF 11				
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION																																																																																																																								
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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
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DEBURR AND
BREAK SHARP
EDGES

DO NOT SCALE DRAWING

REVISION

Department of Agricultural Engineering

TITLE: **Frame of Multi Crop Disc Coulter Seeder**

Frame of Multi Crop Disc Coulter Seeder

	NAME	SIGNATURE	DATE			
DRAWN	Ho Doremy		July 05, 2017			
CHK'D	Pen Nov		July 07, 2017			
APPV'D	Seng Savath					
MFG						
Q.A				MATERIAL:		
				WEIGHT:		

DWG NO.		Part No.15	A4
SCALE:1:4			
		SHEET 11 OF 11	

Part No.15

A4

WEIGHT: _____

SCALE:1:4	SHEET 11 OF 11
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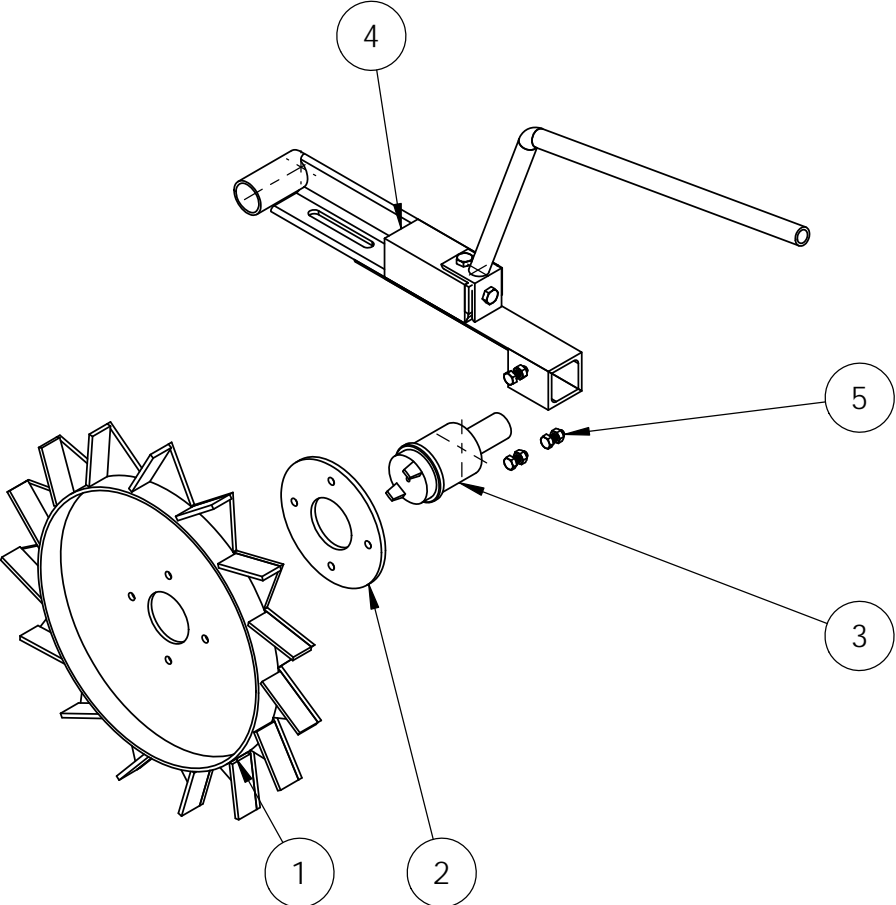
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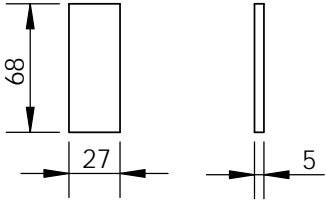
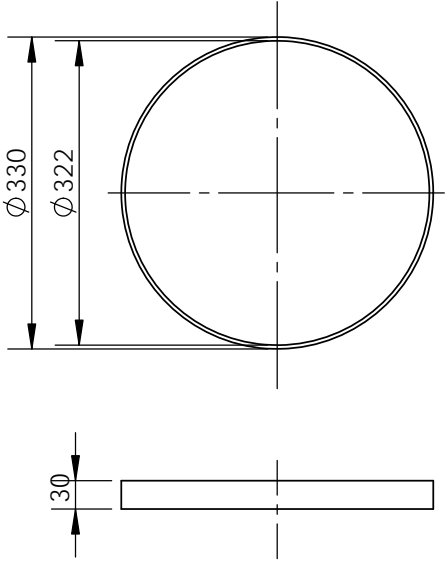
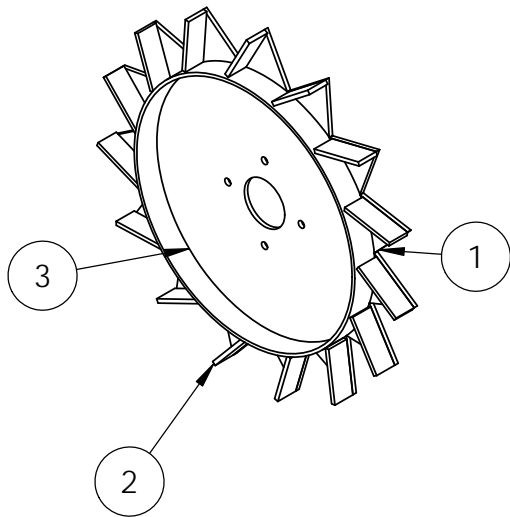
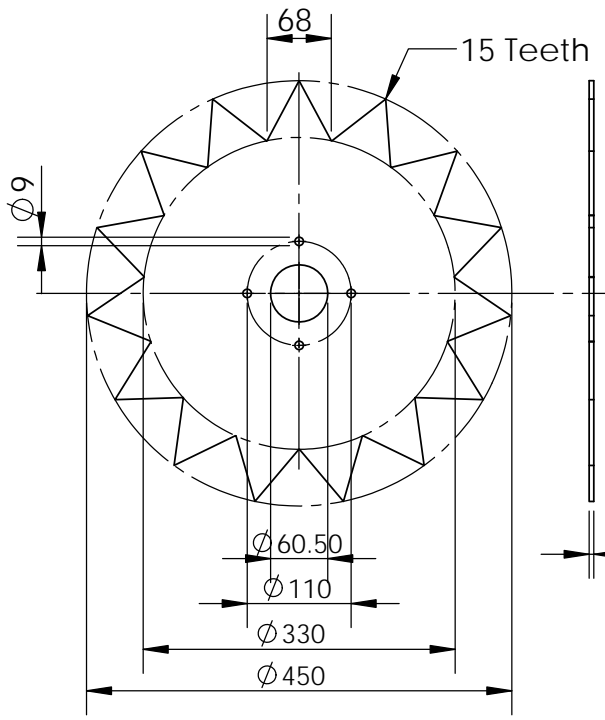
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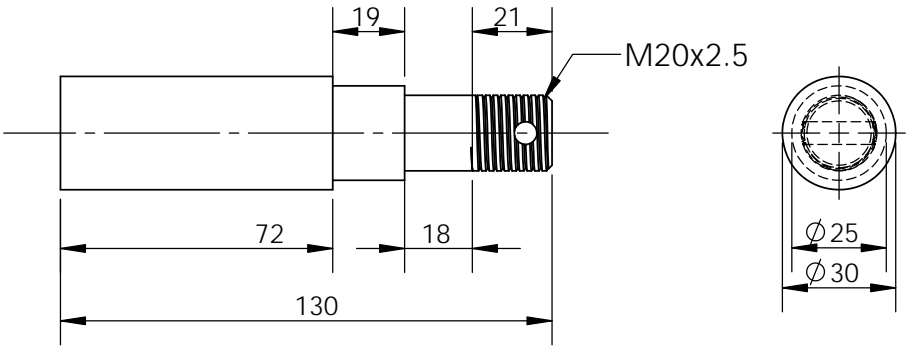
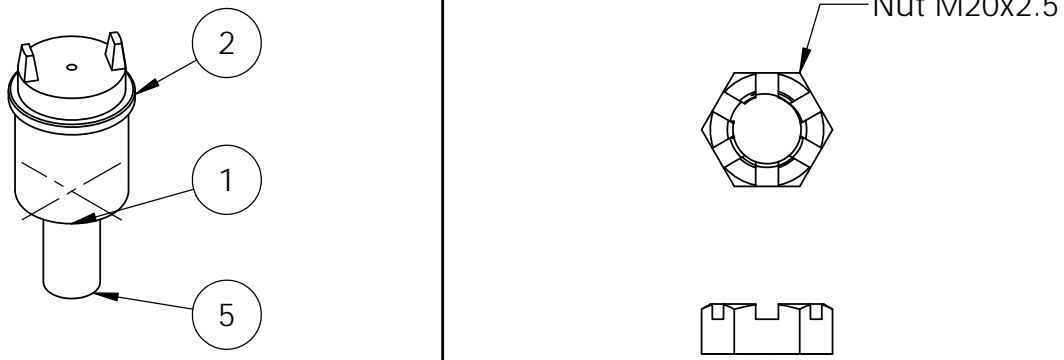
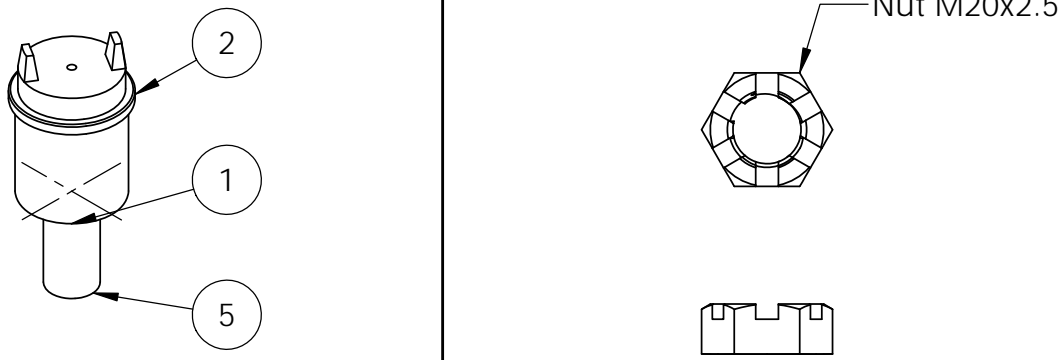
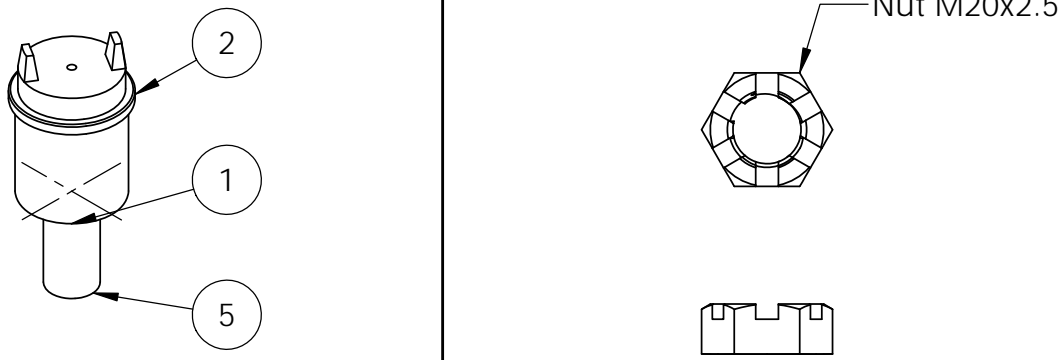
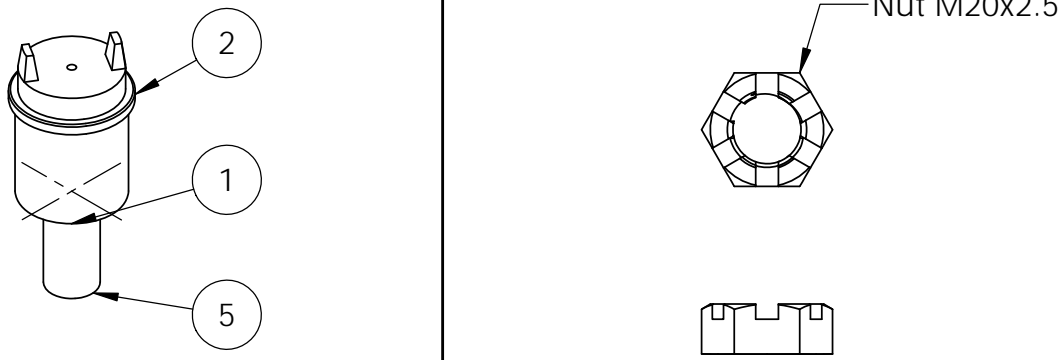
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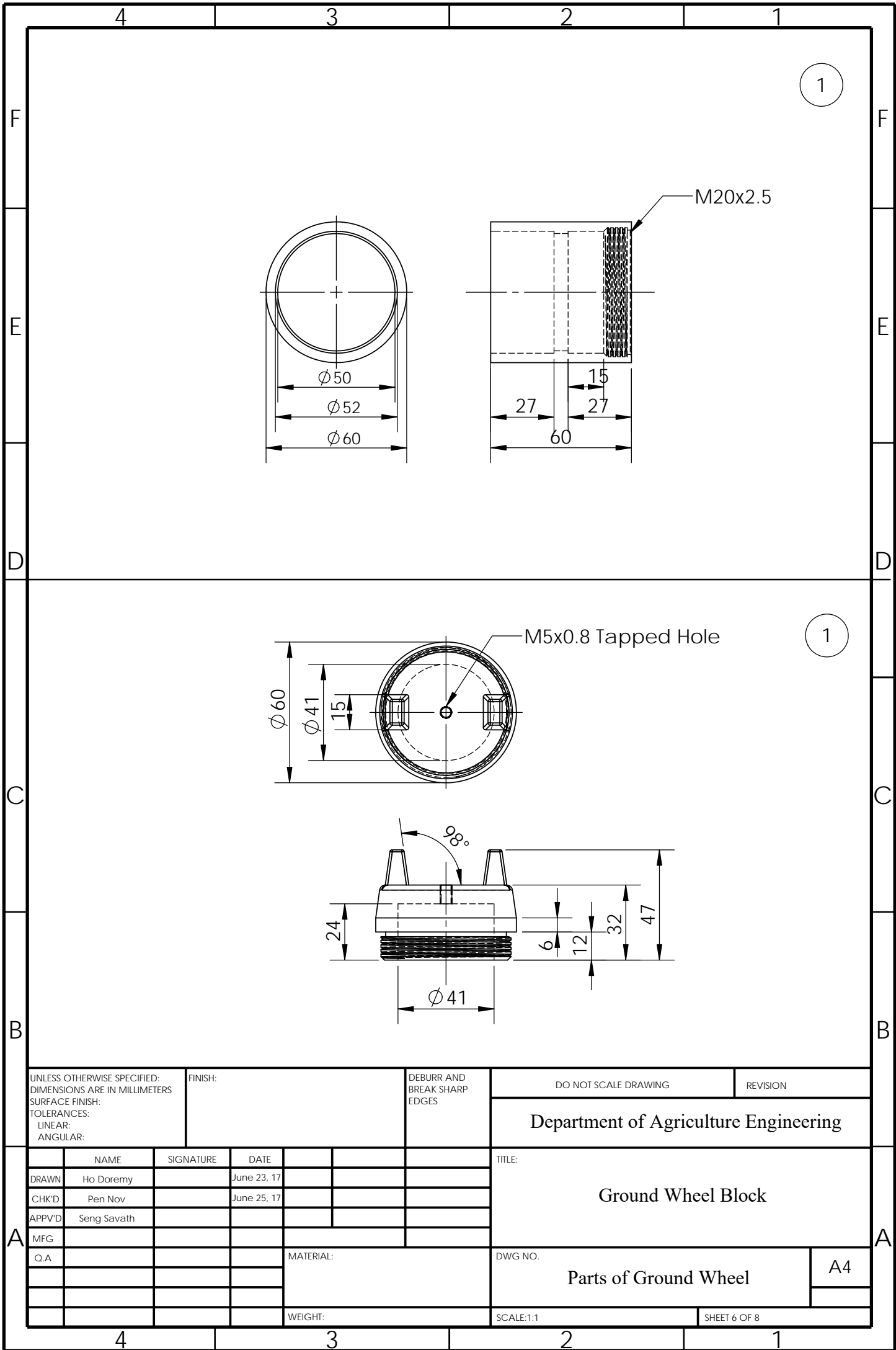
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UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION																																																																		
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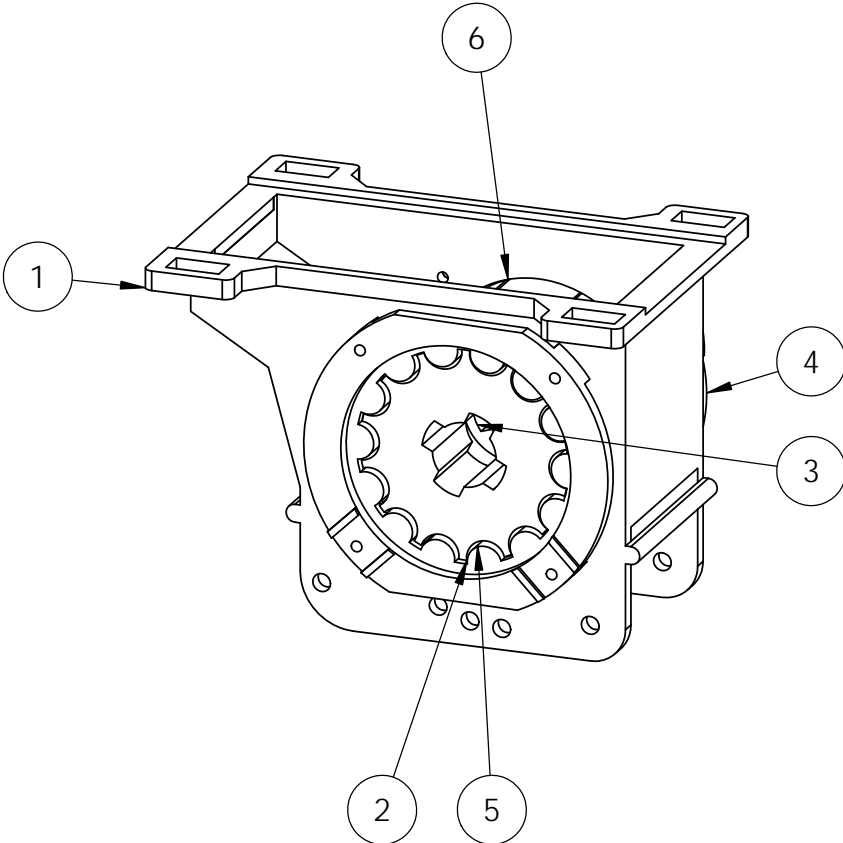
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2	Piece for support disc	5 x 27 x 68	15																			
3	Ring 330dia (30 x 4)	30 x ID322 x OD330	1																			
A	<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:</small>		<small>FINISH:</small>	<small>DEBURR AND BREAK SHARP EDGES</small>	<small>DO NOT SCALE DRAWING</small>	<small>REVISION</small>																
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	NAME	SIGNATURE	DATE																			
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MFG																						
Q.A																						
<small>MATERIAL:</small>																						
<small>WEIGHT:</small>		<small>DWG NO.</small> <div style="text-align: center; font-size: 1.2em;">Ground wheel</div>	<div style="text-align: center; font-size: 1.2em;">A4</div>																			
		<small>SCALE:1:4</small>	<small>SHEET 3 OF 8</small>																			
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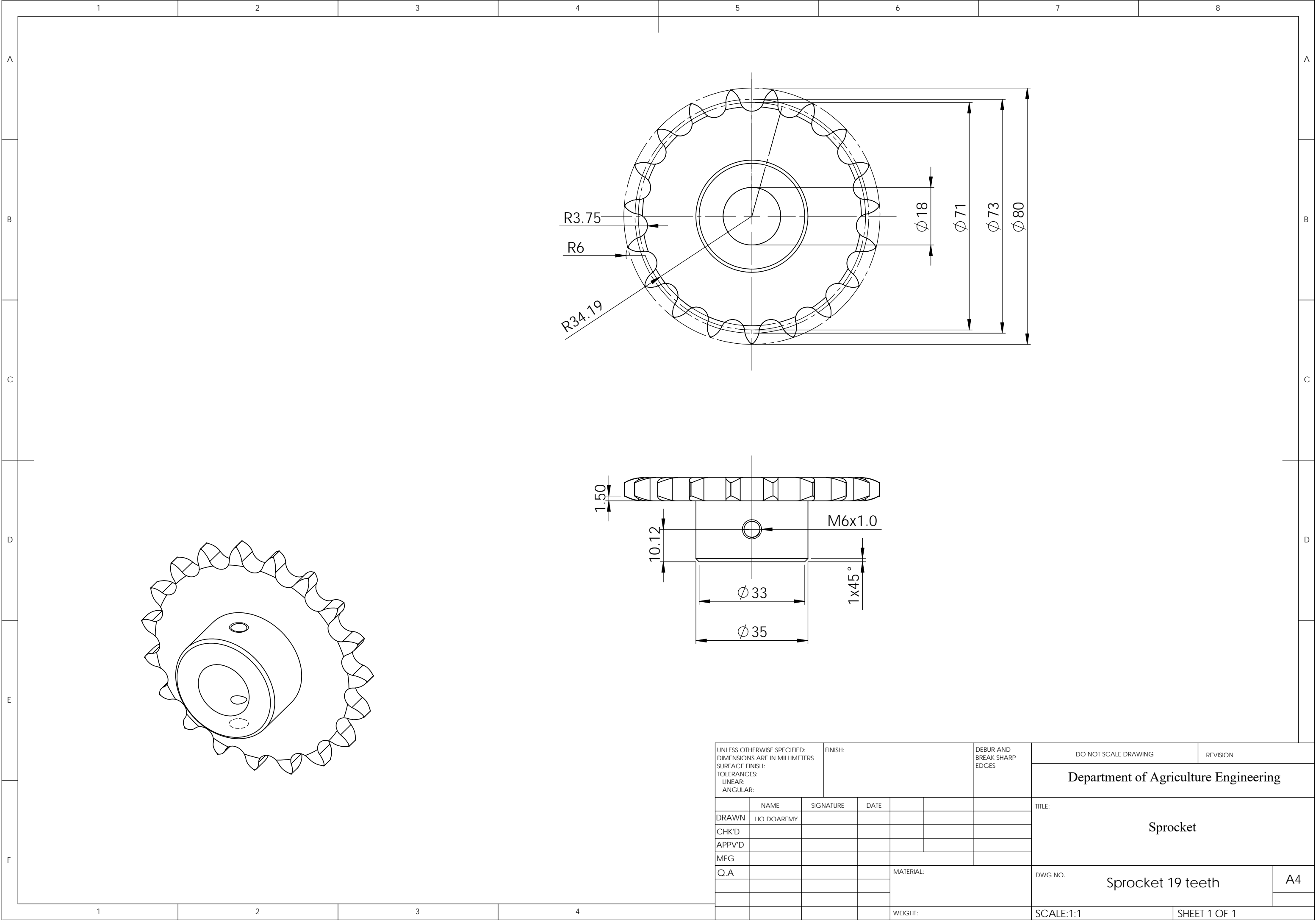
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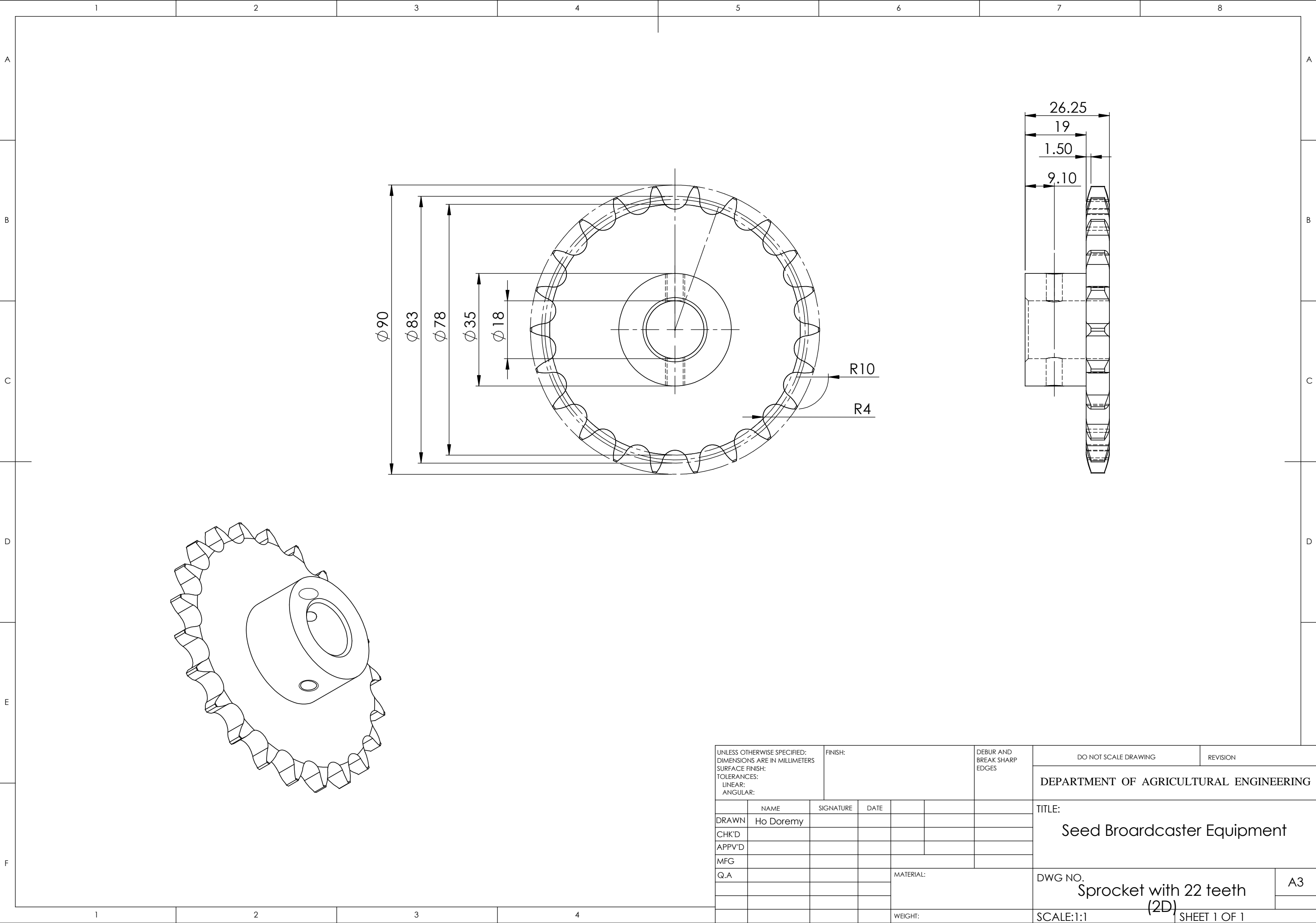
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									Department of Agriculture Engineering	
	NAME	SIGNATURE	DATE						TITLE: Sprocket	
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CHK'D										
APPV'D										
MFG										
Q.A									DWG NO. Sprocket 19 teeth	
									SCALE:1:1	
									SHEET 1 OF 1	



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	NAME	SIGNATURE	DATE				TITLE: Seed Broadcaster Equipment				
DRAWN	Ho Doremy										
CHK'D											
APPV'D											
MFG											
Q.A				MATERIAL:			DWG NO. Sprocket with 22 teeth (2D)				A3
				WEIGHT:			SCALE:1:1		SHEET 1 OF 1		