DECLARATION: I declare the enclosed assignment is my own work and has not previously been submitted for assessment. This work complies with Curtin University rules concerning plagiarism and copyright. I have retained a copy of this assignment for my own records.

Signed: RYAN COBLE-NEAL Date: 23.09.2022



School of Civil and Mechanical Engineering

Engineering Graphics (MCEN2005)

Dr. Ilyas Mazhar

Assignment

DETAIL AND ASSEMBLY DRAWINGS

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Due: 23 September 2022 @5pm

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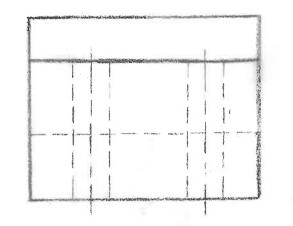
Assumptions/Explanations

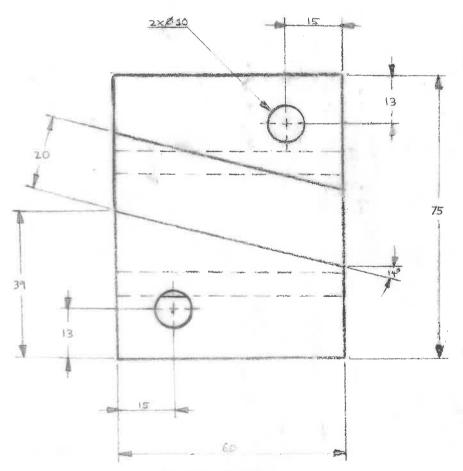
The hidden details in the sectioned half of Question 3 are omitted as they do not add clarity and instead clutter the section.

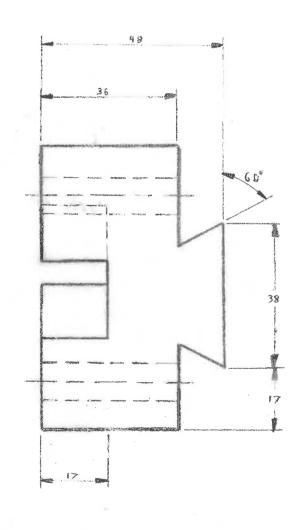
The auxiliary views in Question 4 are partial auxiliary views as the hidden details do not add any further clarity. Additionally, a dimension note "ROUND" is added as the round that it points to cannot be shown with a simple auxiliary view as it would be hidden. The 30 degree angular dimension is shown inside the view as it would result in an unnecessarily long extension line if it were taken outside of the view. Further to this it is taken as a direct dimension from the draft.

The dimensions shown inside the view in Question 5 are done so because to have them outside of the view would lead to multiple extension lines cutting not only other dimension lines but also dimension text. Additionally, the repetition of the size 32 dimension is shown as it is a direct dimension taken from the draft and adds clarity as determining its size from the drawing is difficult due to the slight offset between the end of that dimension and the diameter of the larger circular feature.

The knurling shown in Question 6 is visible as the shaft is not sectioned, hence its outer surface should be visible. Additionally a dimension note for the size of chamfers is given. No dimensions are shown as it is a general assembly. Since we are asked to provide an assembly drawing simply to show the working relationship of the parts an envelope dimension is not needed either.







ALL DIMENSIONS IN MILLIMETERS

DRAFTER: RYAN COBLE-NEAL

CHECKER: DR. ILYAS MAZHAR

APPROVER: DR. ILYAS MAZHAR

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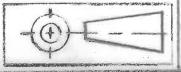
DOVETAIL SLIDE

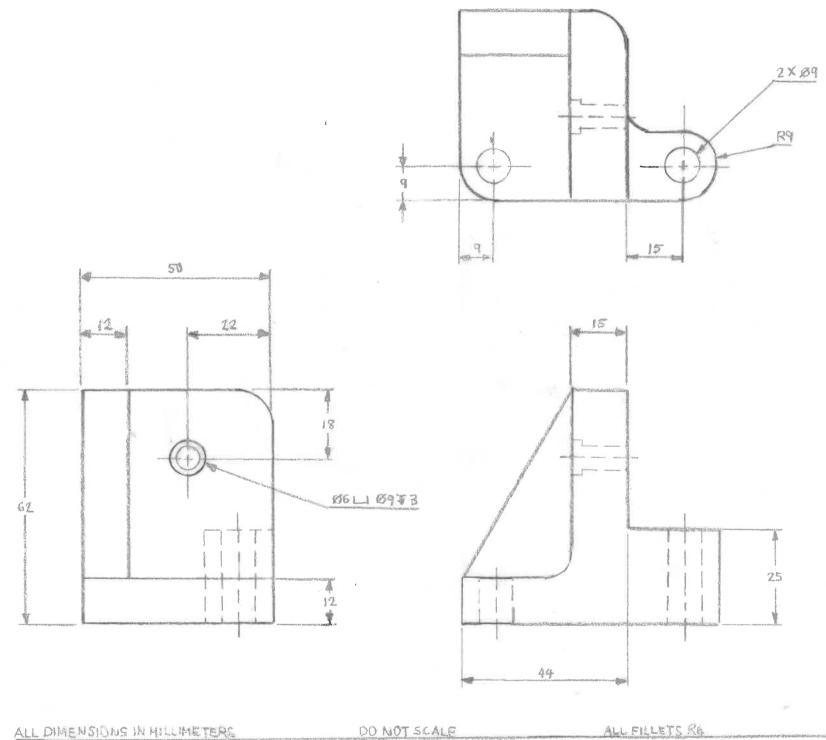
MCEN2005

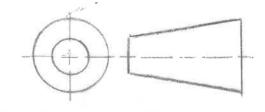
AMT/OTS/021

5CALE 1:1

MILO STEEL







DRAWN BY 19182641 RYAN COBLE-NEAL PONT PATE 23/07/2022

CHECKEPBY. DR. LUYAS MAZHAR

APPROVED BY: OR ILYAS MAZHAR CURTIN UNIVERSITY

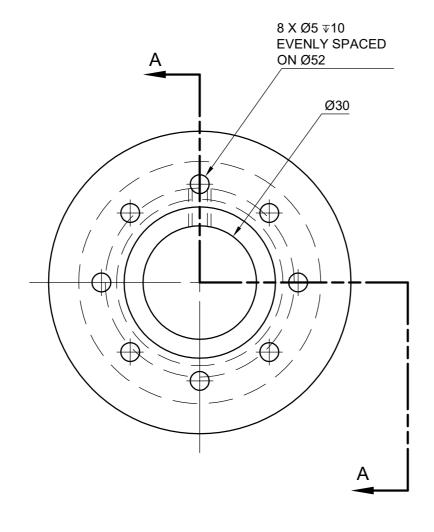
SADDLE BASE

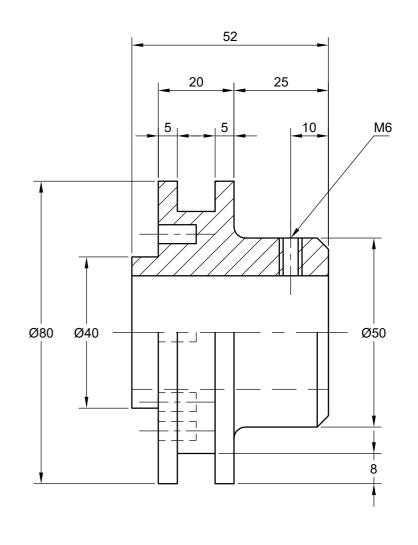
AMT / SDB / 013 SCALE FI

A3

CASTIRON

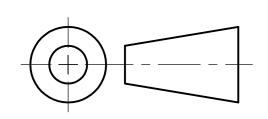
ALLKOUNDS RO





LEFT VIEW

SECTION A-A



ALL DIMENSIONS IN MILLIMETERS	DO NOT SC	ALE
DRAWN BY: 19182641 RYAN COBLE-NEAL		CURTIN (
DATE: 15/09/2022 CHECKED BY:		HEAV
DR. ILYAS MAZHAR APPROVED BY:		
DR. ILYAS MAZHAR		SCALE 1:1

URTIN UNIVERSITY

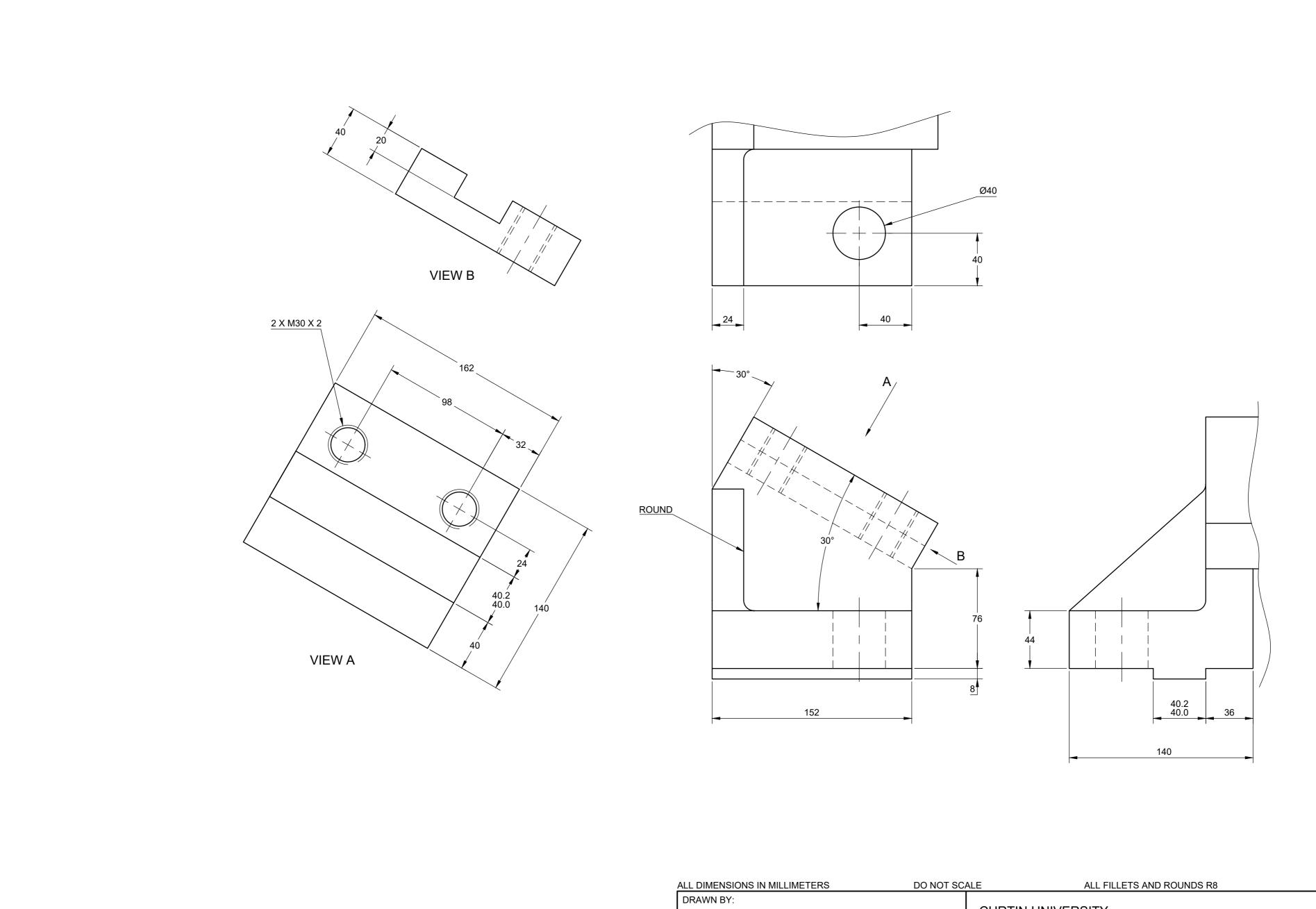
ALL CHAMFERS 3 X 45°

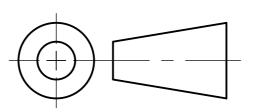
HEAVY DUTY PULLEY

AMT / HDP / 071A

ALL FILLETS R3

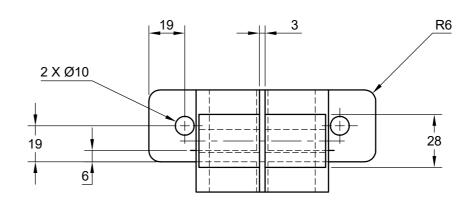
A3

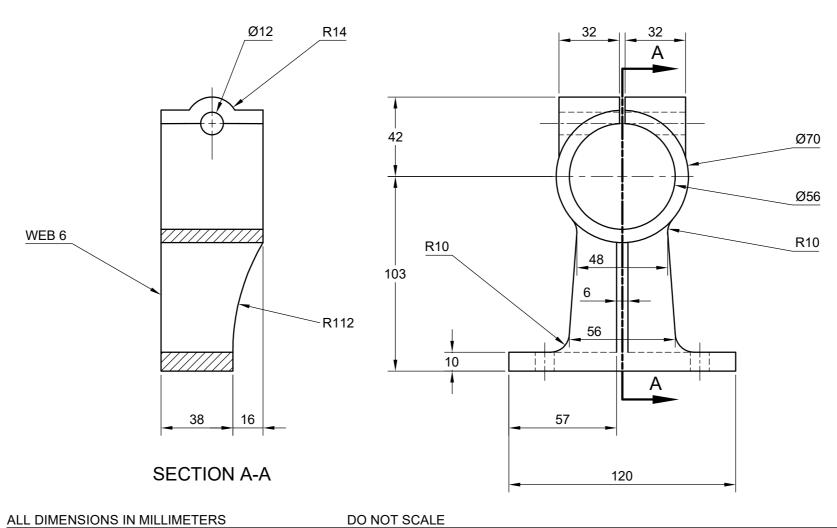


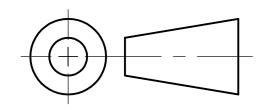


	ALL DIMENSIONS IN MILLIMETERS	DO NOT SCALE	ALL FILLE	ETS AND ROUNDS R8
	DRAWN BY: 19182641 RYAN COBLE-NEAL	C	CURTIN UNIVERSITY ANGULAR SLIDE	
	DATE: 22/09/2022	A		
CHECKED BY: DR. ILYAS MAZHAR APPROVED BY: DR. ILYAS MAZHAR				
			AMT / ASD / 033	
			AWI / ASD / 033	
	SC	CALE 1:2	1040 STEEL	

A2







DO NOT SCALI

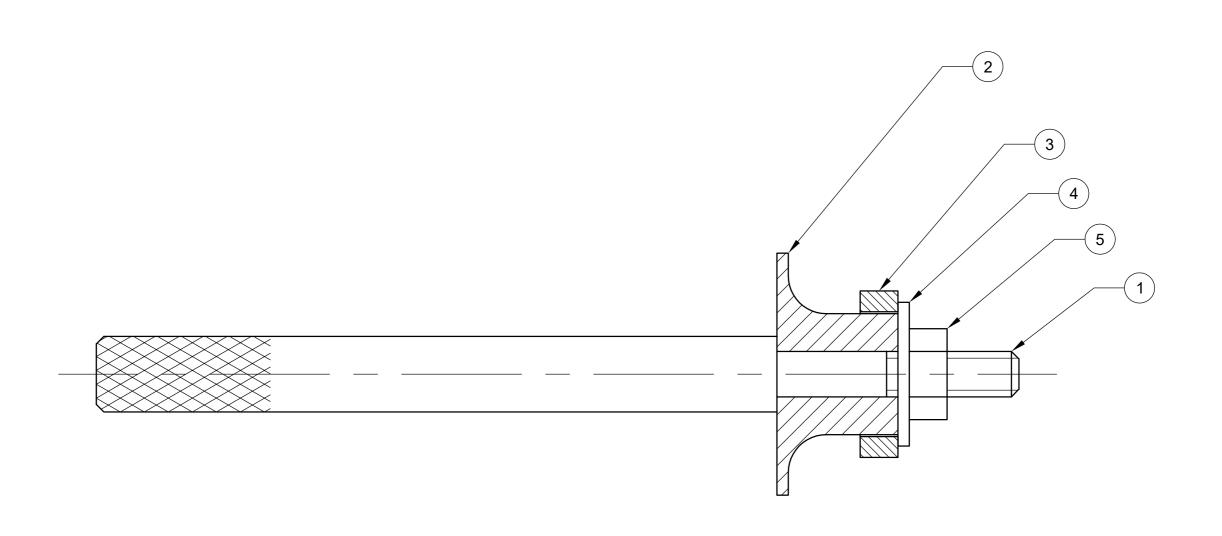
DRAWN BY: 19182641 RYAN COBLE-NEAL	CURTIN
DATE: 23/09/2022	SHAF [*]
CHECKED BY: DR. ILYAS MAZHAR	
APPROVED BY: DR. ILYAS MAZHAR	
DIV. IETAO WAZITAN	SCALE 1:2

CURTIN UNIVERSITY

SHAFT BRACKET

AMT / STB / 018 1020 STEEL

A3



1	STEEL	HEX NUT M12x1.75	5
1	STEEL	WASHER	4
1	1040 STEEL	COLLAR	3
2	1020 STEEL	FLANGE	2
1	1040 STEEL	BOLT	1
QTY	MATERIAL	DESCRIPTION	P.NO

	ALL DIMENSIONS IN MILLIMETERS	DO NOT SCAL	LE ALL CI	HAMFERS 2 x 2
	DRAWN BY: 19182641 RYAN COBLE-NEAL		CURTIN UNIVERSITY	
	DATE: 21/09/2022		FLANGE JIG AS	SEMBLY
	CHECKED BY: DR. ILYAS MAZHAR APPROVED BY:			
-				AMT / F
	DR. ILYAS MAZHAR	F	SCALE 1:1	

AMT / FJA / 032 **A3** SCALE 1:1

