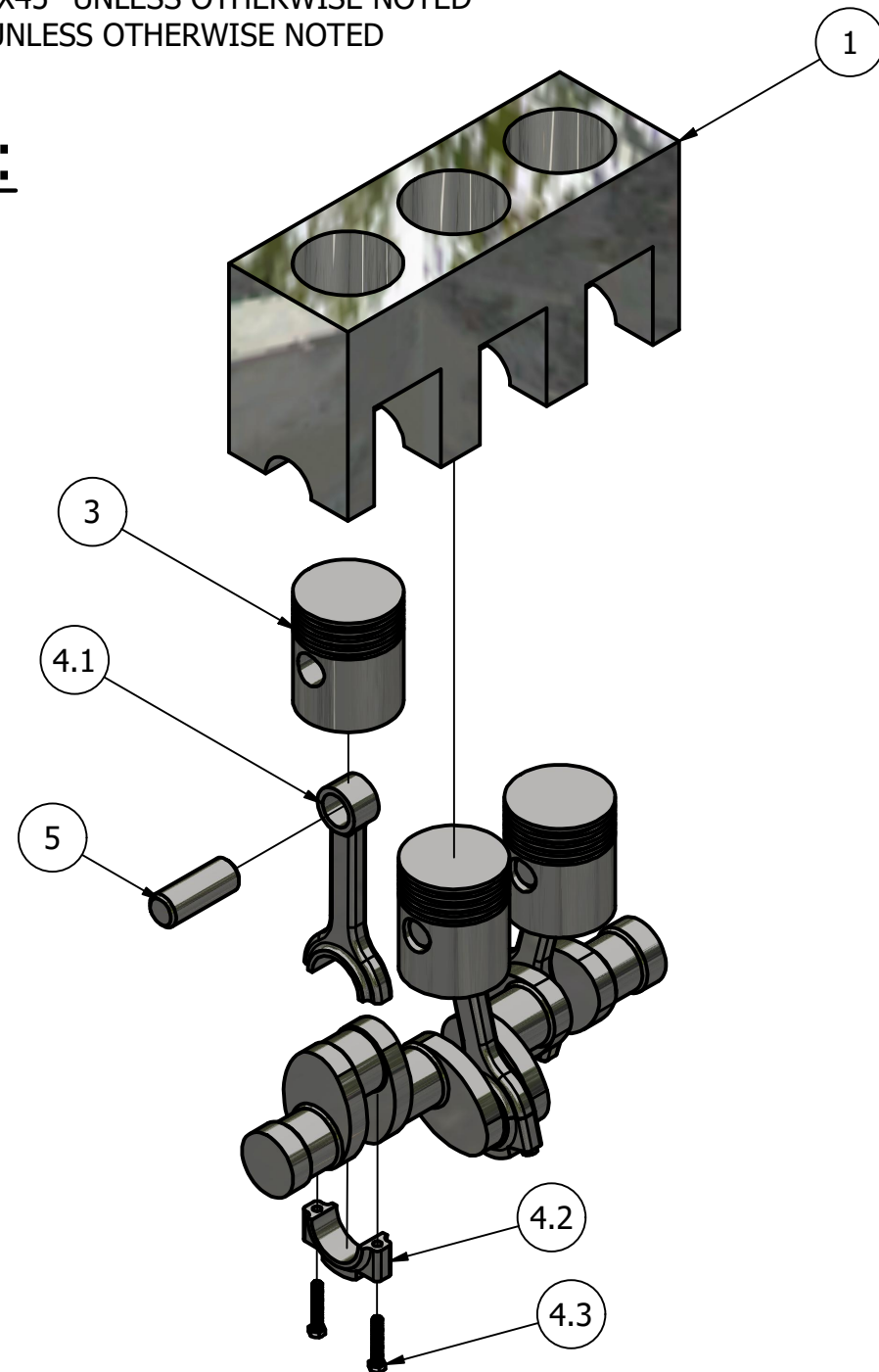


GENERAL NOTES:

ALL CHAMFERS 2X45° UNLESS OTHERWISE NOTED
 ALL FILLETS R3 UNLESS OTHERWISE NOTED

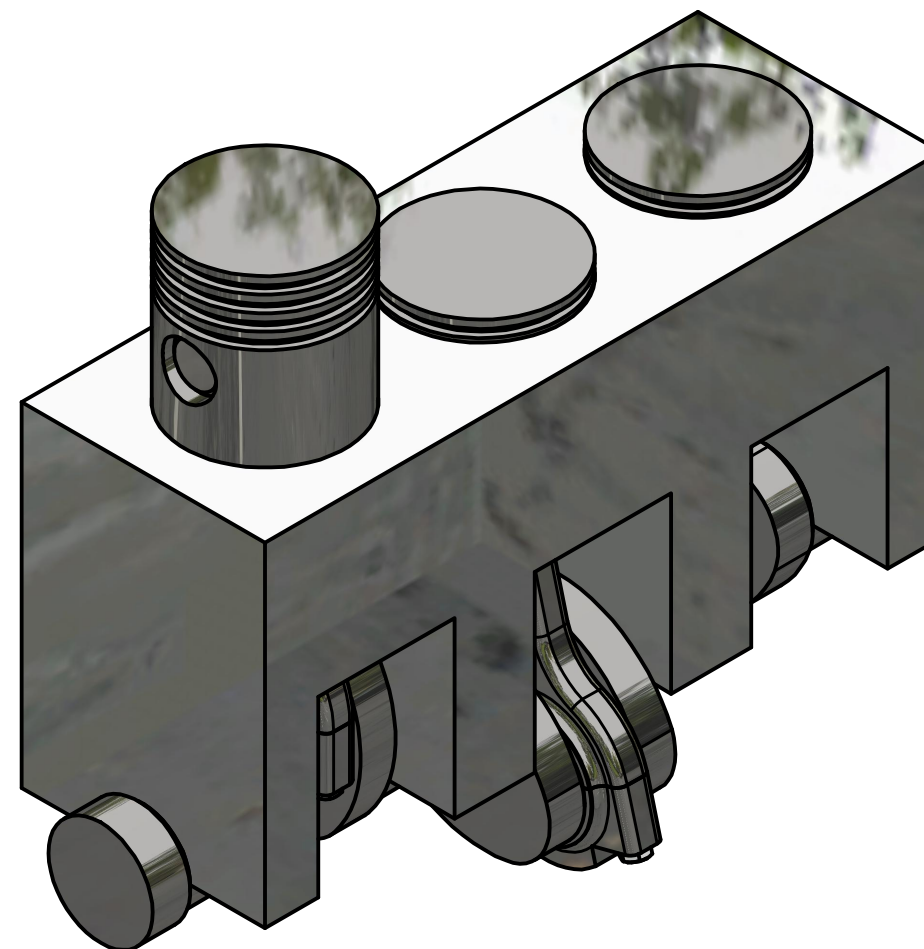
LEGEND:

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ∇ DEPTH



EXPLODED ENGINE ASSEMBLY
 SCALE 1 / 4

PARTS LIST				
ITEM	QTY	PART NUMBER	MATERIAL	DESCRIPTION
1	1	ENGINE BLOCK	ALUMINUM	
2	1	CRANK SHAFT	STEEL	
3	3	PISTON	STEEL	
4.1	3	CONNECTING ROD TOP	STEEL	
4.2	3	CONNECTING ROD BOTTOM	STEEL	
4.3	6	HEX HEAD BOLT	STAINLESS STEEL	M5 X .8 X 30 MC MASTER CARR #91287A127
5	3	PISTON PIN	STEEL	



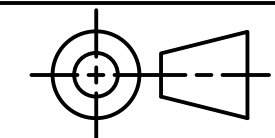
ENGINE ASSEMBLY
 SCALE 1 / 2

METRIC



DIGITAL DESIGN
 GRAPHIC
 TECHNOLOGY

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TOLERANCES UNLESS SPECIFIED
 MILLIMETERS:
 WHOLE NUMBERS = ±.5
 X = ±.25
 XX = ±.12
 FRACTIONAL ±1/64"
 ANGLES ±1 DEGREE
 SURFACES ³²∇

CLASS: DDGT 240

ASSIGNMENT NUMBER: 64

INVENTOR DRAWING NAME:
 ENGINE

FIG #: 20.69

MANAGER: G. STROMMEN

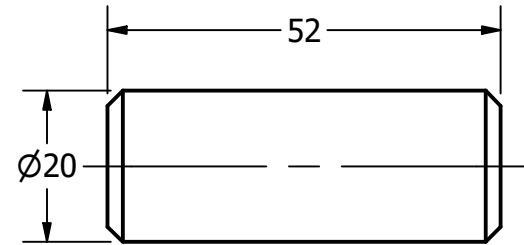
DRAFTER: G. RAMIREZ

DATE: 10/27/2024

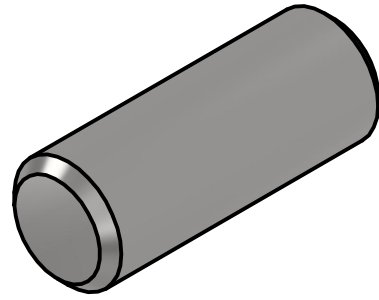
SCALE: AS NOTED

PAGE #: 1 OF 3

METRIC



PISTON PIN
SCALE 1 : 1



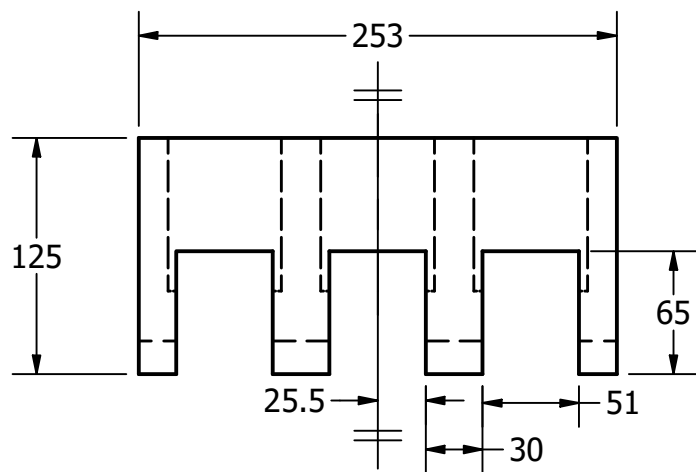
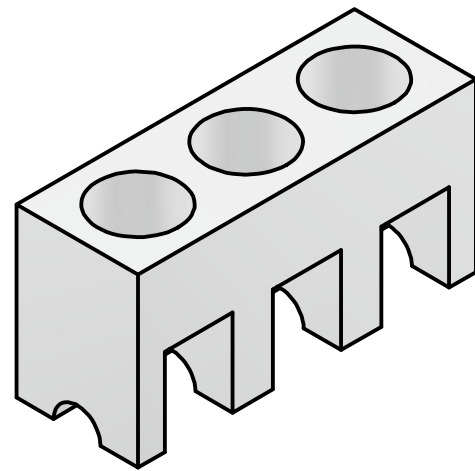
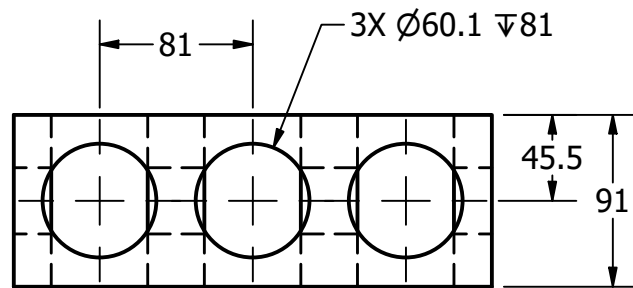
LEGEND:

- Ø DIAMETER
- R RADIUS
- ° DEGREES
- ∇ DEPTH

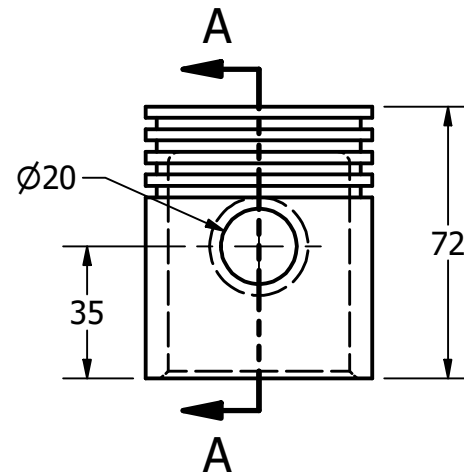
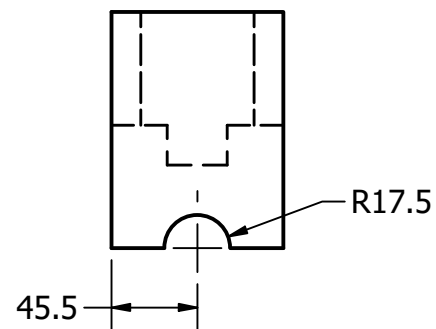
PARTS LIST		
ITEM	QTY	PART NUMBER
1	1	ENGINE BLOCK
3	3	PISTON
5	3	PISTON PIN

GENERAL NOTES:

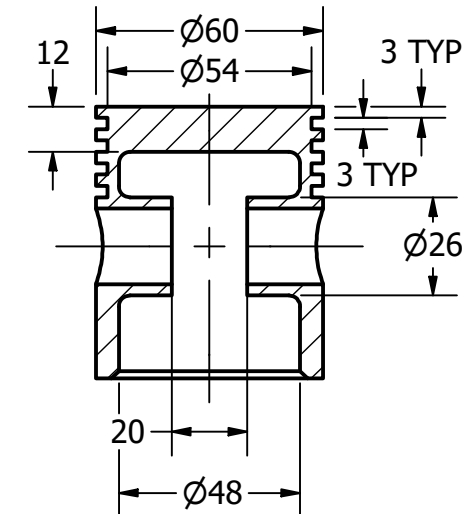
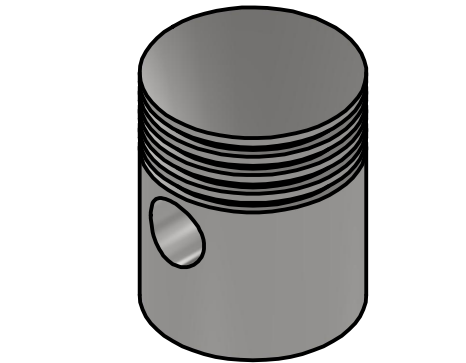
ALL CHAMFERS 2X45° UNLESS OTHERWISE NOTED
ALL FILLETS R3 UNLESS OTHERWISE NOTED



ENGINE BLOCK
SCALE 1 / 4



PISTON
SCALE 1 / 2

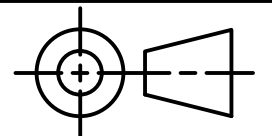


SECTION A-A
SCALE 1 / 2



DIGITAL DESIGN
GRAPHIC
TECHNOLOGY

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MILLIMETERS:
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FRACTIONAL ±1/64"
ANGLES ±1 DEGREE
SURFACES ³²√

CLASS: DDGT 240

ASSIGNMENT NUMBER: 64

INVENTOR DRAWING NAME:

ENGINE

FIG #: 20.69

MANAGER: G. STROMMEN

DRAFTER: G. RAMIREZ

DATE: 10/27/2024

SCALE: AS NOTED

PAGE #: 2 OF 3

LEGEND:

- ∅ DIAMETER
- R RADIUS
- ° DEGREES
- ∇ DEPTH

GENERAL NOTES:

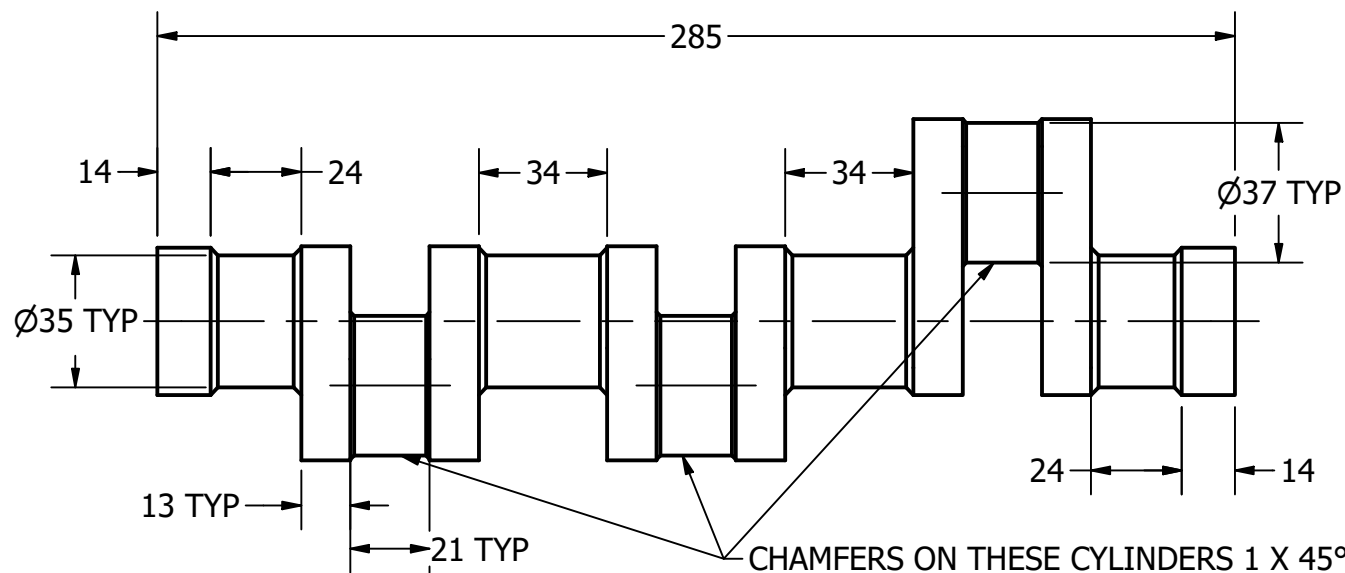
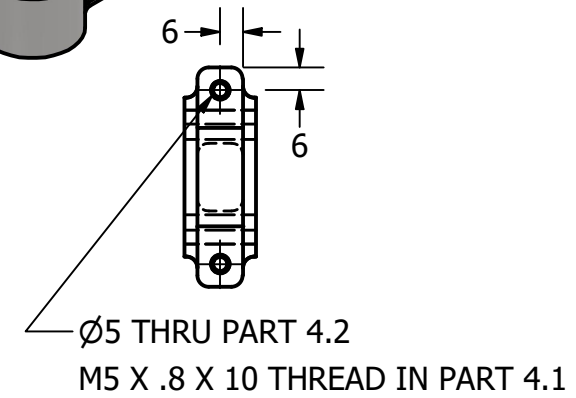
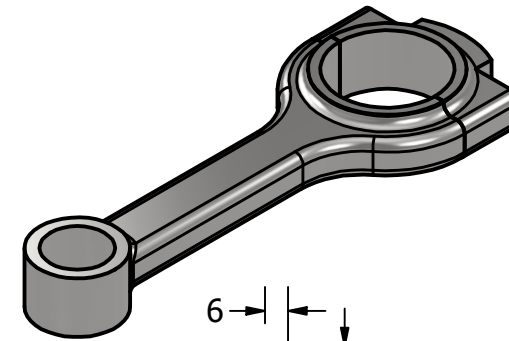
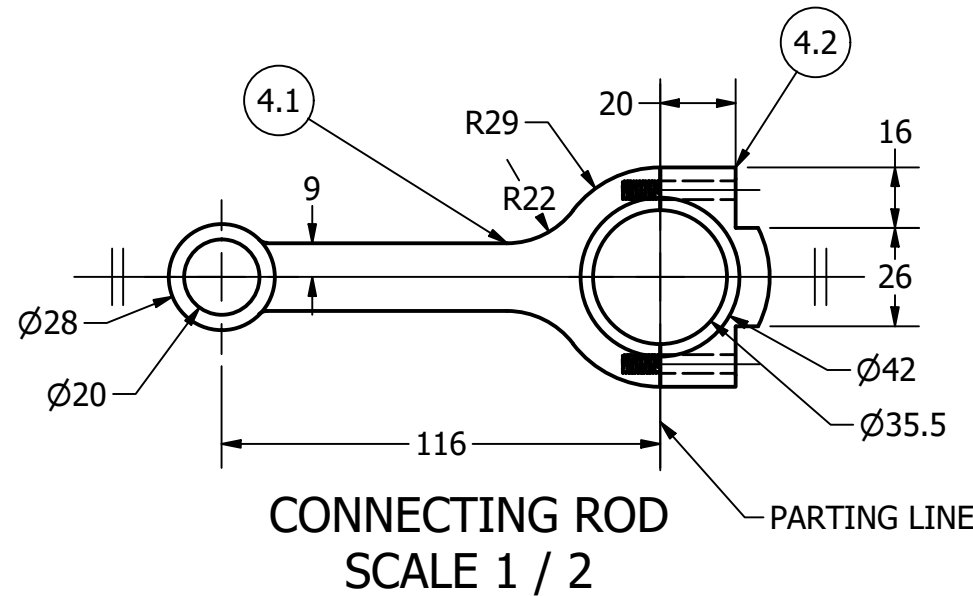
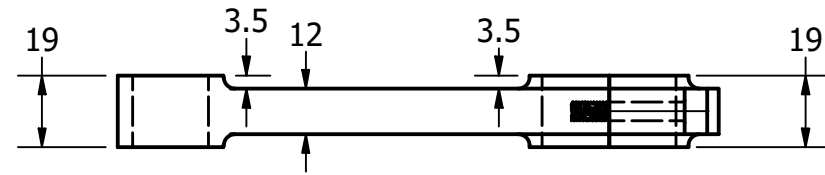
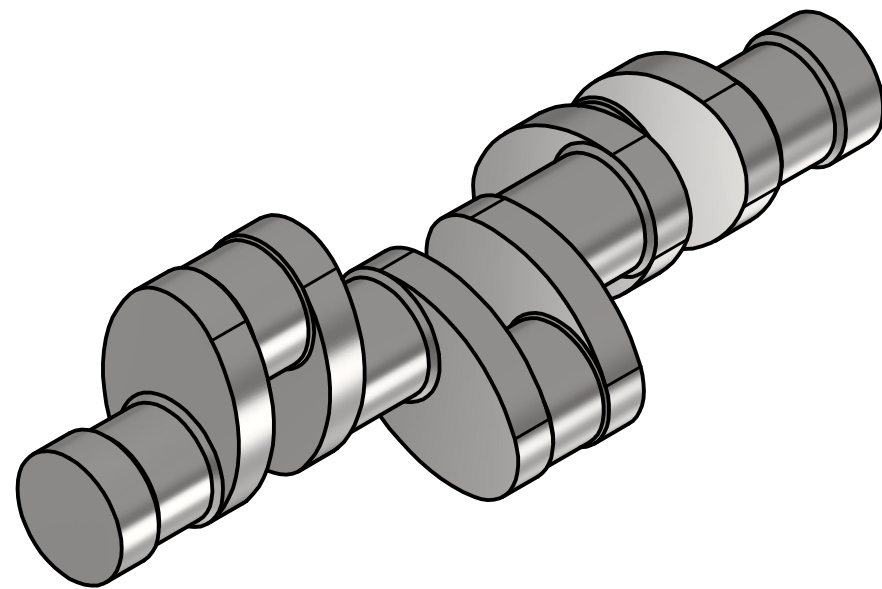
ALL CHAMFERS 2X45° UNLESS OTHERWISE NOTED
 ALL FILLETS R3 UNLESS OTHERWISE NOTED

PARTS LIST		
ITEM	QTY	PART NUMBER
2	1	CRANK SHAFT
4.1	3	CONNECTING ROD TOP
4.2	3	CONNECTING ROD BOTTOM

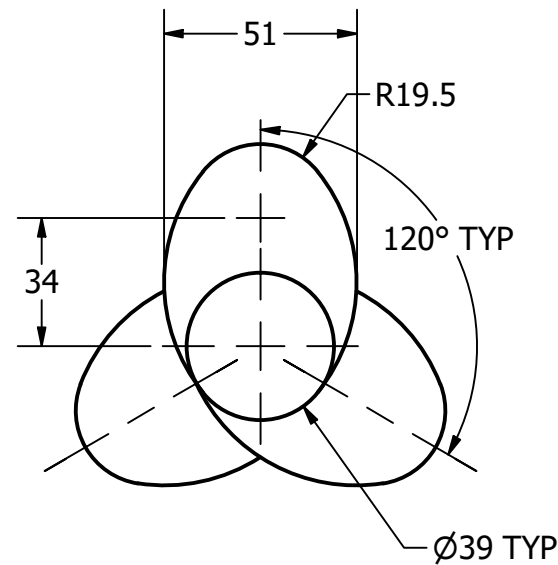


DIGITAL DESIGN
 GRAPHIC
 TECHNOLOGY

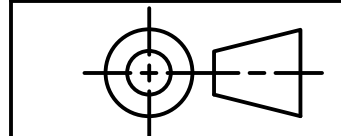
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CRANK SHAFT
 SCALE 1 / 2



METRIC



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 ANGLES ±1 DEGREE
 SURFACES ³²∇

CLASS: DDGT 240

ASSIGNMENT NUMBER: 64

INVENTOR DRAWING NAME:
 ENGINE

FIG #: 20.69

MANAGER: G. STROMMEN

DRAFTER: G. RAMIREZ

DATE: 10/27/2024

SCALE: AS NOTED

PAGE #: 3 OF 3