

TRANSNET ENGINEERING
RESEARCH AND DEVELOPMENT MECHANICAL

CONVEYOR SHAFTS SPECIFICATION
RDM_KDS_SPEC_2012

Revision 01

Date of release: 15 February 2024

COMPILED BY:

A handwritten signature in black ink, appearing to read "Mokgosi", written over a horizontal line.

KGOSITSHWENE MOKGOSI

Engineer in Training

Research and Development

Transnet Engineering

Date: 15 February 2024

APPROVED BY:

A handwritten signature in black ink, appearing to read "J. A. Kruger", written over a horizontal line.

JOHAN KRUGER, Pr.Eng

Senior Engineer

Research and Development

Transnet Engineering

Date: 15 / 02 / 2024

Bidder Signature: _____

1. SCOPE

This specification states the minimum requirements relating to the services required and in no way absolves the contractor from responsibility for sound engineering practice. Any omissions or sub-standard requirements of this specification must be brought to the attention of Transnet Engineering at tender stage and optional prices for addressing such omissions must be provided. The Supplier shall supply all the labour, tools, material, equipment, consumables, facilities, testing, and supervision required for servicing the specified equipment on site.

2. INFORMATION REQUIRED

- 2.1. Tenders shall provide enough details at the tendering stage to enable the Transnet Technical Officers the opportunity to assess each offer properly.
- 2.2. Tenders shall complete the relevant questionnaire in full and must indicate whether their offer complies with each item of the specification.
- 2.3. Should there be insufficient space for providing full details, bidders shall provide the additional details in their covering letter. The additional details shall be numbered in accordance with the applicable clause specified in the specification.

3. GENERAL REQUIREMENT

- 3.1. Suppliers shall comply with the Occupational Health and Safety Act (Act 85 of 1993), as amended. This applies to any work done as well as any equipment supplied.
- 3.2. The dedicated supplier personnel shall complete a SAFETY INDUCTION and have valid permits when entering Transnet Engineering's facilities.
- 3.3. Supplier personnel shall always wear the appropriate personal protective equipment (PPE) on site.
- 3.4. Supplier shall have a valid Letter of Good standing with the Workman's Compensation Fund.
- 3.5. Supplier shall comply with the last version of Transnet Engineering's Safety, Health and Environment (SHE) Specification for contract work.

Bidder Signature: _____

4. SPECIFICATION:

The following list of items below details the products required for Conveyor manufacturing:

4.1. Conveyor Belts and Chain

Component Details	Specification	QTY	Comply (YES/NO)
Bottom Conveyor - Drive Shaft	Material: EN19T Drawing: RDM_G181_0017	1	
Bottom Conveyor - Driven Shaft	Material: EN19T Drawing: RDM_G181_0016	1	
Top Conveyor - Drive Shaft	Material: EN19T Drawing: RDM_G182_0011	1	
Top Conveyor - Driven Shaft	Material: EN19T Drawing: RDM_G182_0014	1	

Bidder Signature: _____

5. DELIVERY ADDRESS

Price should include delivery to the following address:

Research & Development
Mechanical Department
Transnet Engineering, Bay 8
Koedoespoort, Pretoria
Gauteng
0184

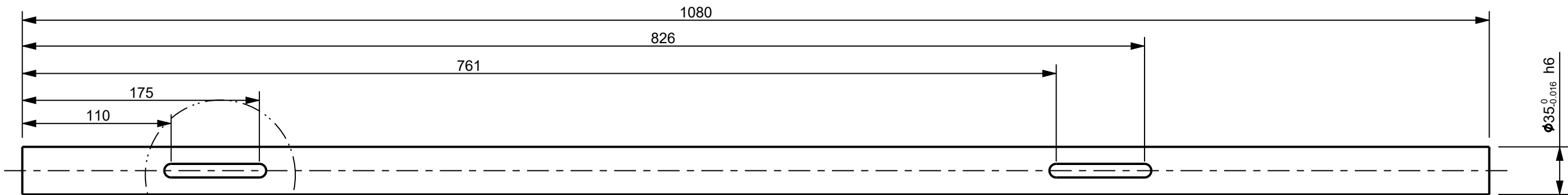
Note: Delivery date to be communicate with Transnet before date of delivery to ensure that staff are available to receive items. Please note, no delivery will be taken after 15:00.

Bidder Signature: _____

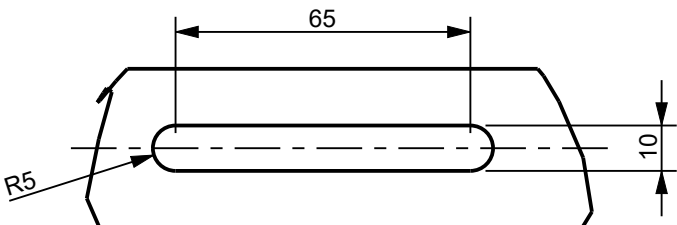
FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

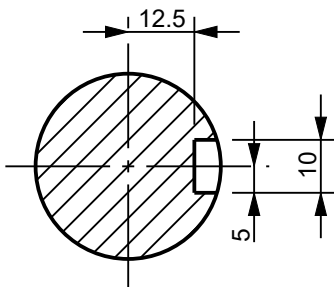
2D STATUS



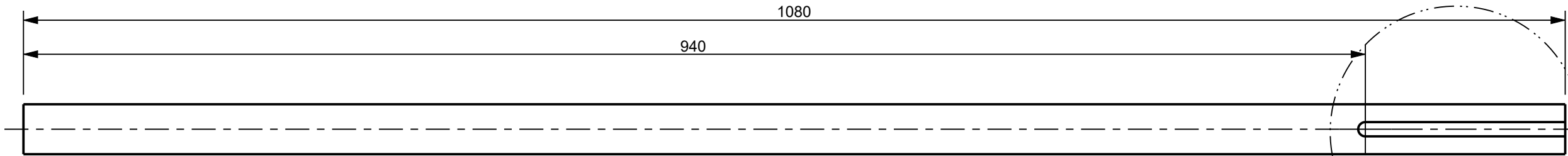
SEE DETAIL A



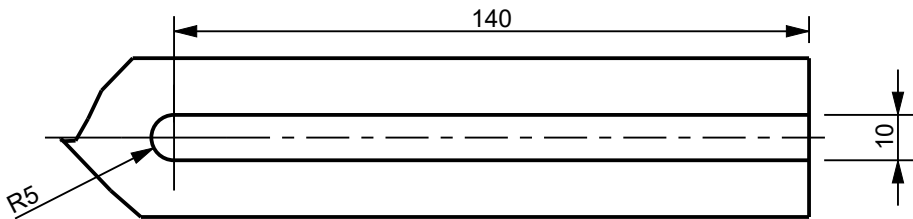
DETAIL A
SCALE 3:5



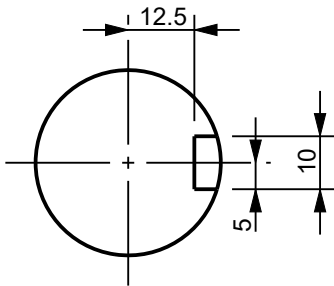
SECTION A-A
SCALE 7:10



SEE DETAIL B



DETAIL B
SCALE 3:5



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TRANSNET ENGINEERING

ASSEMBLY DRG No. RDM_G181_0000

DRAWN

K.M

CHECKED

V.M

CLASS

APPROVED

J.K

TYPE

DATE

06/02/2024

SCALE

1:10

KOEDOESPOORT

R&D

BC DRIVE SHAFT

BC CONVEYOR

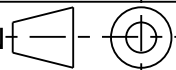
MATERIAL

EN19T

SHEET 1 OF 1

A-3

PROJECTION



DOCUMENT REFERENCE No.

G180-CA2208-0168

TRANSNET ENGINEERING

No.

RDM_G181_0017

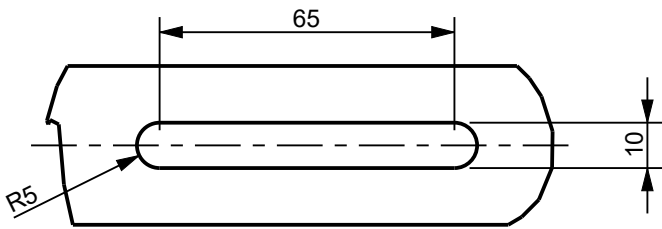
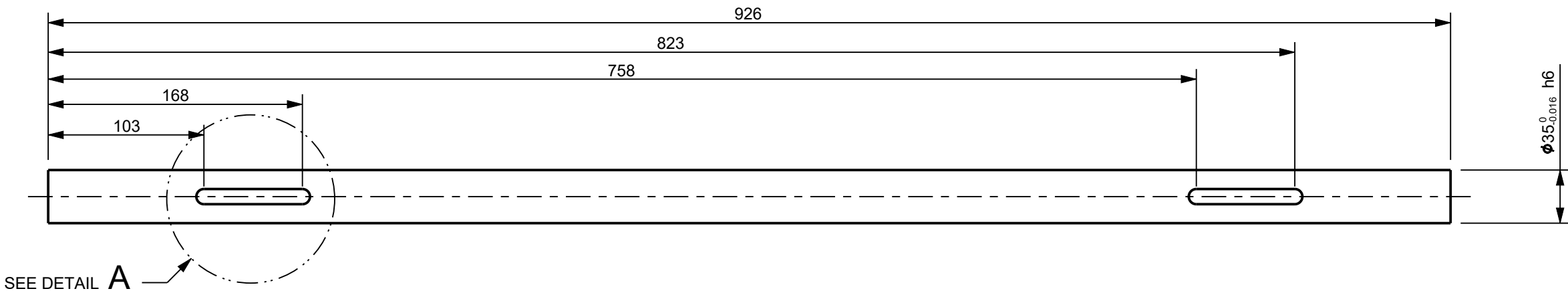
REV. 0

AMENDMENTS	
MASS	8.05 Kg

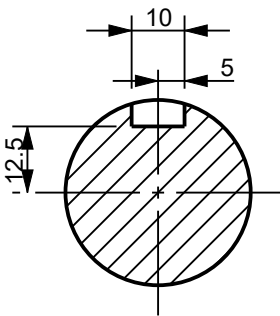
FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

2D STATUS



DETAIL A
SCALE 3:5



SECTION A-A
SCALE 7:10

AMENDMENTS	
MASS	6.94 Kg

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DRAWN K.M

CHECKED V.M

CLASS

APPROVED J.K

TYPE

DATE 06/02/2024

SCALE 1:10

KOEDOESPOORT R&D

BC DRIVEN SHAFT
BC CONVEYOR

MATERIAL

EN19T

SHEET 1 OF 1

A-3 PROJECTION

DOCUMENT REFERENCE No.

G180-CA2208-0168

TRANSNET ENGINEERING

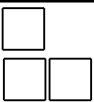
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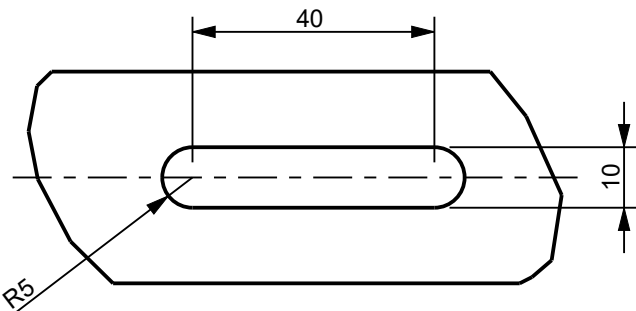
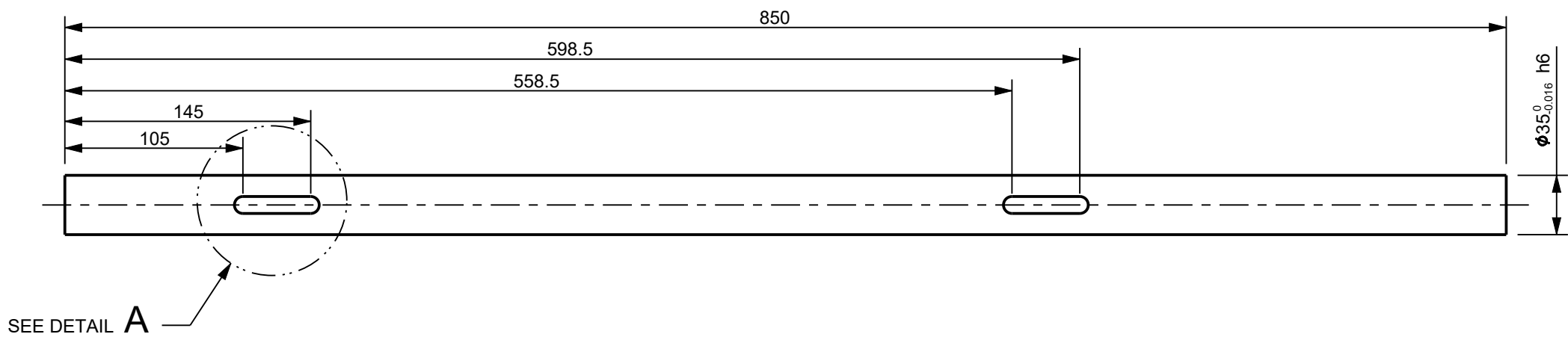
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FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1:
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

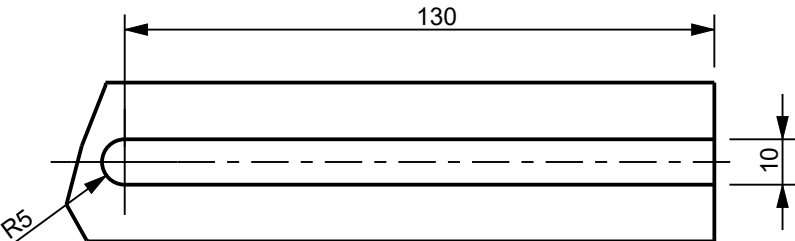
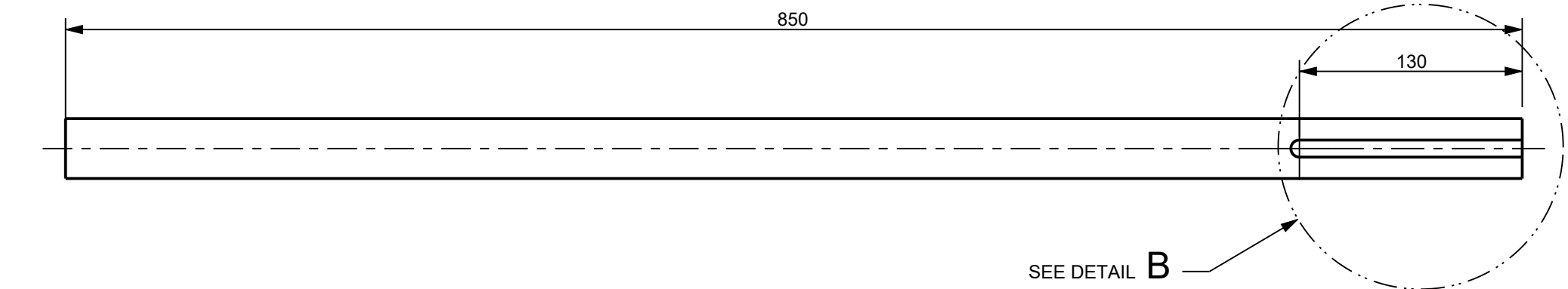
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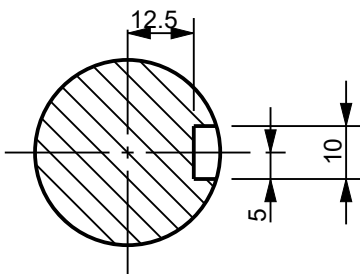
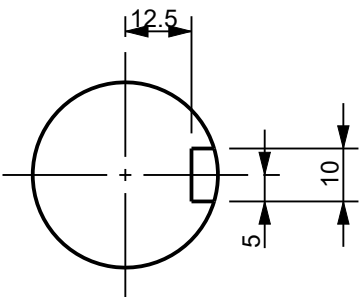
2D STATUS



DETAIL A
SCALE 4:5



DETAIL B
SCALE 3:5



SECTION A-A
SCALE 7:10

AMENDMENTS	
MASS	6.33 Kg

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DRAWN K.M

CHECKED V.M

CLASS

APPROVED J.K

TYPE

DATE 06/02/2024

SCALE 1:10

KOEDOESPOORT

R&D

SC DRIVE SHAFT
TOP CONVEYOR

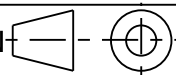
MATERIAL

EN19T

SHEET 1 OF 1

A-3

PROJECTION



DOCUMENT REFERENCE No.

G180-CA2208-0168

TRANSNET ENGINEERING

No.

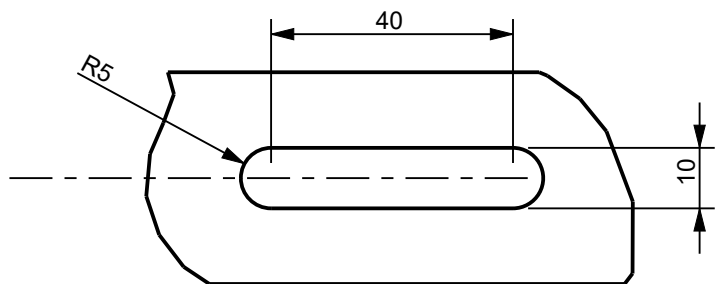
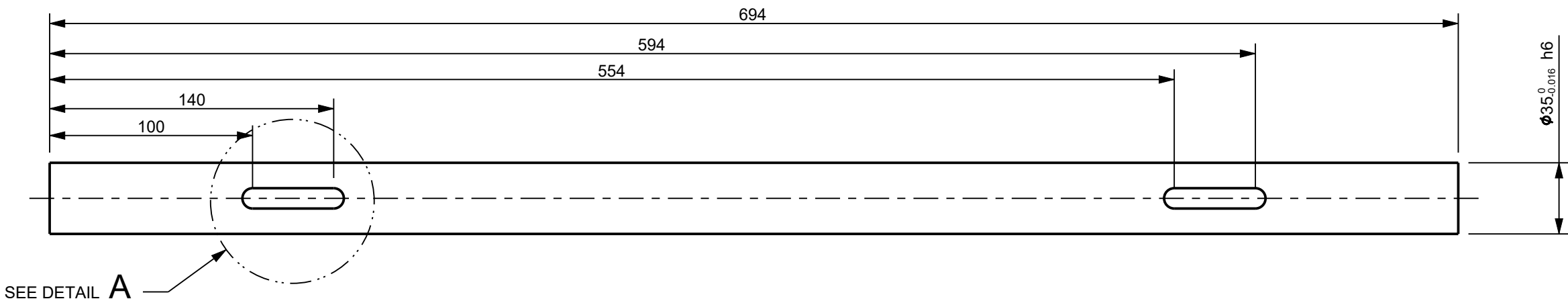
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REV. 1

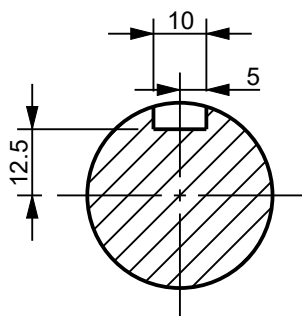
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FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

DESIGNATION

2D STATUS



DETAIL A
SCALE 4:5



SECTION A-A
SCALE 7:10

AMENDMENTS	
MASS	5.21 Kg

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CHECKED V.M

CLASS

APPROVED J.K

TYPE

DATE 06/02/2024

SCALE 1:5

KOEDOESPOORT R&D

SC DRIVEN SHAFT
TOP CONVEYOR

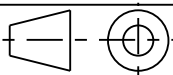
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EN19T

SHEET 1 OF 1

A-3

PROJECTION



DOCUMENT REFERENCE No.

G180-CA2208-0168

TRANSNET ENGINEERING

No.

RDM_G182_0014

REV. 1