

ITEM NO.
 BT DRW. REV_A

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

DESIGNATION

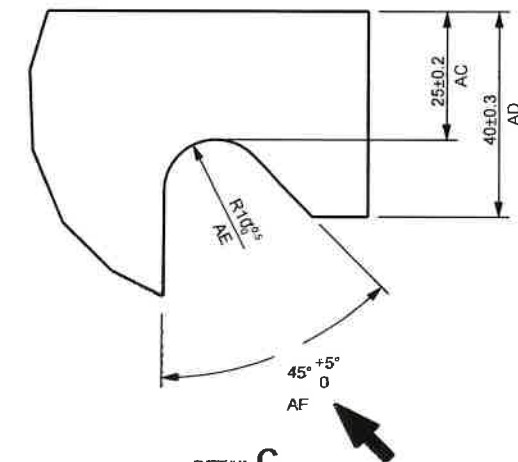
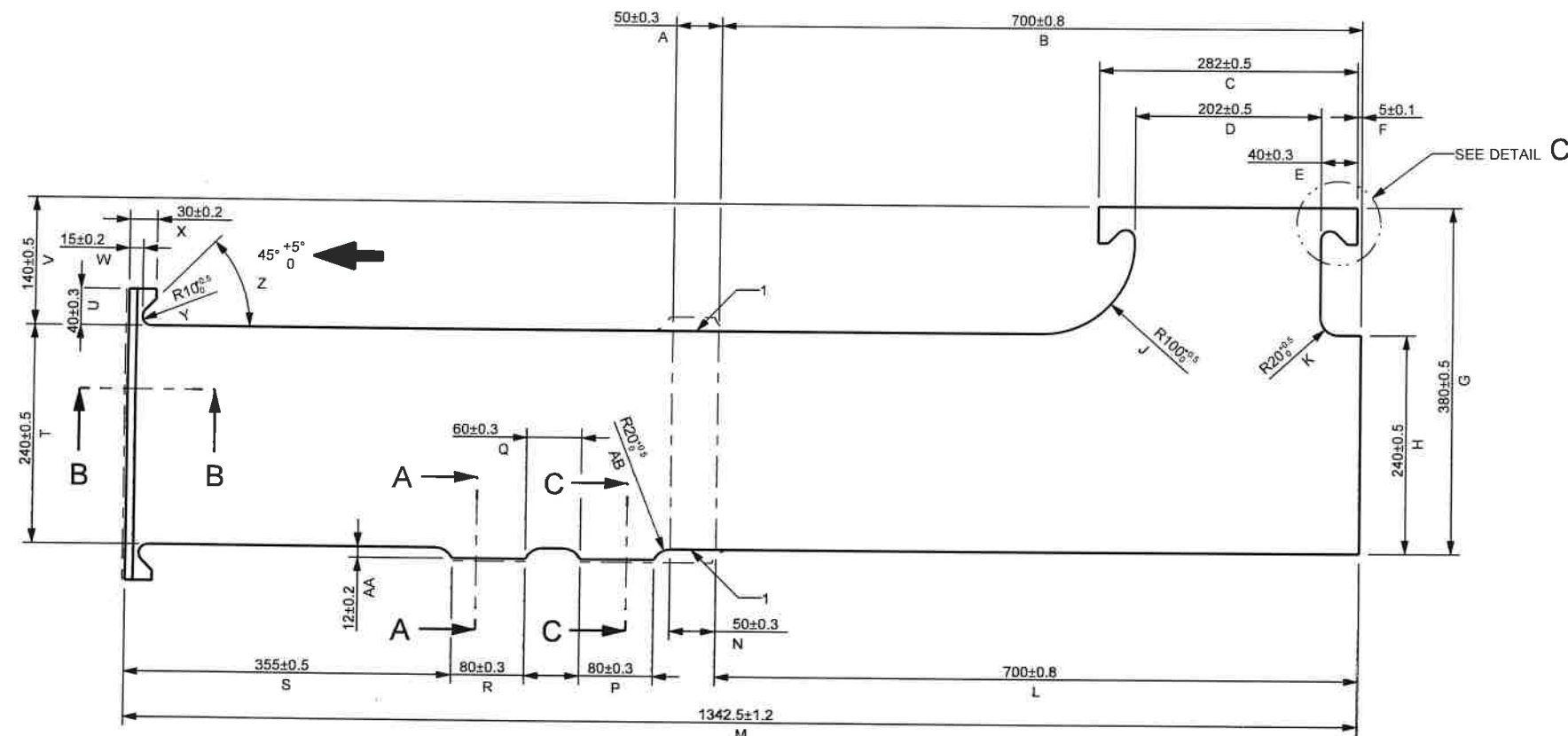
M

2D STATUS

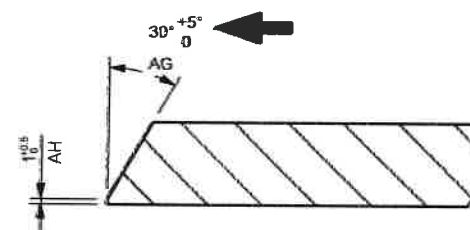
IN WORK

GENERAL TOLERANCES

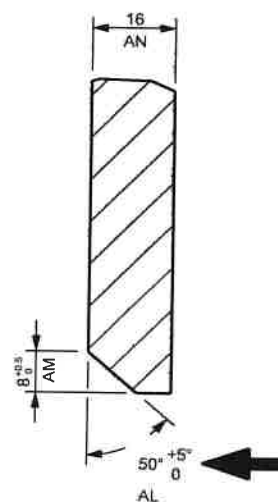
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



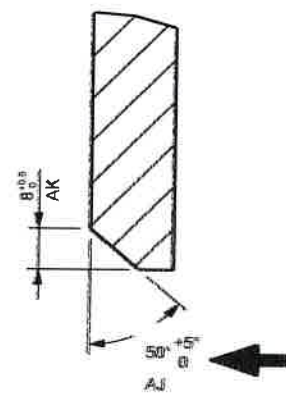
DETAIL C
SCALE 1:1



SECTION B-B
SCALE 1:1



SECTION A-A
SCALE 1:1

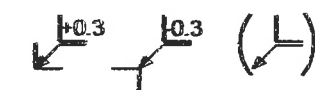


SECTION C-C
SCALE 1:1

NOTE:

- THE HEAT AFFECTING ZONES IN THE BENDING AREAS HAVE TO BE REMOVED BY GRINDING RESPECTIVELY MACHINING BEFORE BENDING.
- FOR CUTTING, REFER TO DRAWING NO: CUT_22A0107

12.5 ✓ 3.2 ✓



PART EDGES ISO 13715

REV 6
TOLERANCES ALTERED.
PD_PEL_KLP_DRW_23E.
2019-04-15 S.W.S.

REV 5
TOLERANCE REMOVED
FROM PLATE THICKNESS
PD_PEL_KLP_DRW_23E
2016-07-11 S.W.S.

REV 4
MATERIAL GRADE
AMENDED
PD_PEL_KLP_DRW_23E
2016-04-05 M.P.T.

REV 3
DIMENSION ALTERED.
MATCHING SKETCH
ADDED AND TOLERANCES
ALTERED
PD_PEL_KLP_DRW_23E.
2015-11-06 M.J.M.

REV 2
LETTERS ADDED FOR
SOP.
PD_PEL_KLP_DRW_23E.
2015-08-06 M.J.M.

REV 1
MACHINING SKETCH
ADDED
PD_PEL_KLP_DRW_23E
23-06-2015 M.J.M.

AMENDMENTS
MASS 44.91 Kg

COPYRIGHT
THIS DRAWING TOGETHER WITH THE COPYRIGHT
IS THE PROPERTY OF
TRANSNET
THIS DRAWING OR ANY PART THEREOF IS NOT
TO BE COPIED OR OTHERWISE REPRODUCED
OR USED FOR MANUFACTURE OR ANY OTHER
PURPOSE WITHOUT THE WRITTEN PERMISSION
FROM
CHIEF EXECUTIVE
TRANSNET ENGINEERING

A-2 PROJECTION

ASSEMBLY DRG No.
CLASS Z3E
TYPE ELECTRIC LOCOMOTIVE
DOCUMENT REFERENCE No.
PD_PEL_KLP_DRW_23E

DRAWN M.J.M.
CHECKED M.J.M.
APPROVED G.E.D.
DATE
SCALE 1:5

KILNER PARK
LOCOMOTIVES
UPPER FLANGE

TRANSNET ENGINEERING

MATERIAL
STEEL
SANS 50025 GRADE S355 J2C+N
PLATE 16
1348 x 420

SHEET 1 OF 1

No.

MAC_22A0107 REV. -6

ITEM NO.

BT DRW. REV_A

Group 1.1

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

DESIGNATION

M

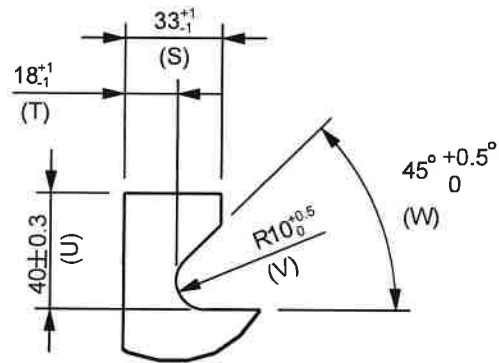
A E

2D STATUS

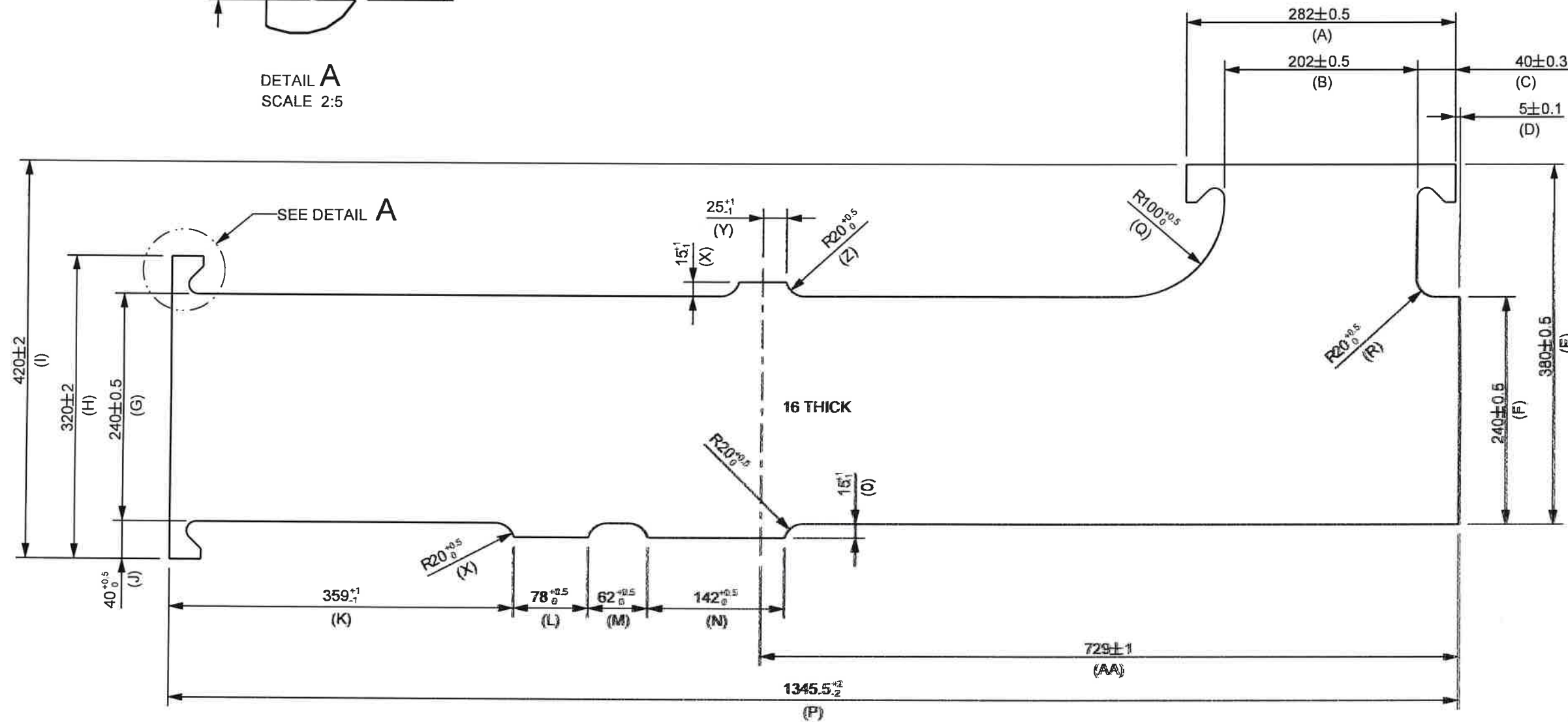
IN WORK

GENERAL TOLERANCES

ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



DETAIL A
SCALE 2:5



REV_6
BT DRW UPDATED
PD_PEL_KLP_DRW_23E
2016-07-04 S.W.S.

REV_5
MATERIAL GRADE
AMENDED
PD_PEL_KLP_DRW_23E
2016-04-05 M.P.T.

REV_4
DRAWING ALTERED
PD_PEL_KLP_DRW_23E
2015-10-06 M.J.M.

REV_3
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-08-27 M.J.M.

REV_2
TOLERANCE HAS BEEN
AMENDED.
PD_PEL_KLP_DRW_23E
2015-05-18 M.N.N.

REV_1
CUTTING MARGINS ADDED
PD_PEL_KLP_DRW_23E
2015-05-04 M.J.M.

AMENDMENTS

PART EDGES ISO 13715

MASS 45.54 Kg

COPYRIGHT
THIS DRAWING TOGETHER WITH THE COPYRIGHT
IS THE PROPERTY OF
TRANSNET
THIS DRAWING OR ANY PART THEREOF IS NOT
TO BE COPIED OR OTHERWISE REPRODUCED
OR USED FOR MANUFACTURE OR ANY OTHER
PURPOSE WITHOUT THE WRITTEN PERMISSION
FROM
CHIEF EXECUTIVE,
TRANSNET ENGINEERING

ASSEMBLY DRG No.

DRAWN

M.J.M.

CHECKED

M.N.N.

CLASS 23E

APPROVED

B.E.D.

TYPE ELECTRIC LOCOMOTIVE

DATE

SCALE

1:5

KILNER PARK

LOCOMOTIVES

UPPER FLANGE

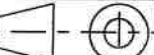
SIDE BEAM RIGHT

MATERIAL

STEEL
SANS 50025 GRADE S355 J2C+N
PLATE 16
1346 x 420

SHEET 1 OF 1

A-3 PROJECTION



DOCUMENT REFERENCE No.

PD_PEL_KLP_DRW_23E

TRANSNET ENGINEERING

No.

CUT_22A0107 REV. -6

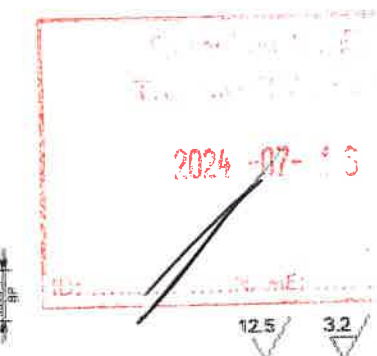
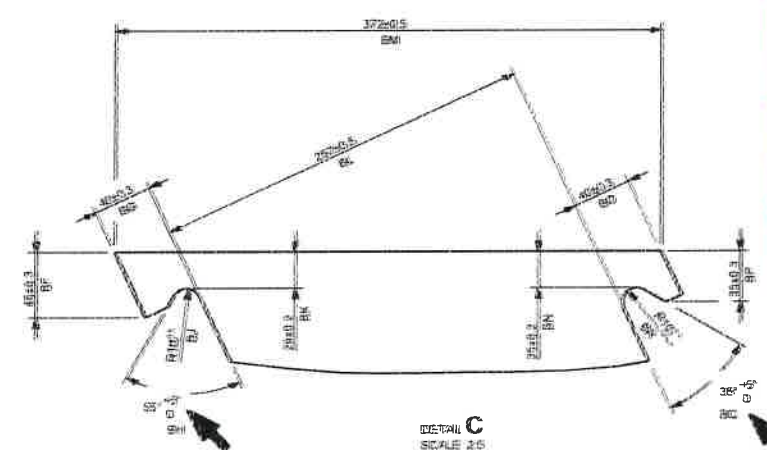
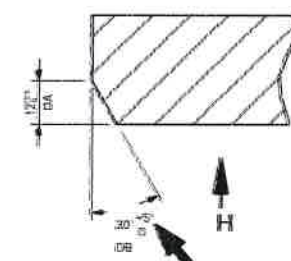
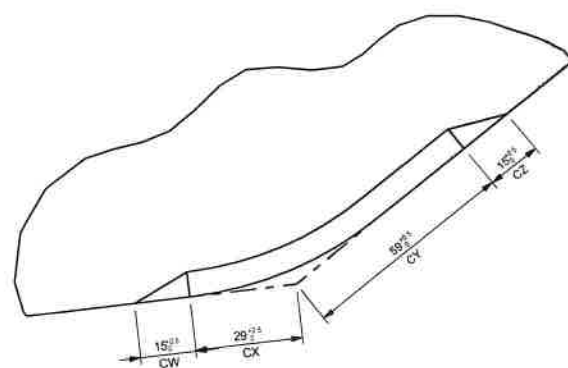
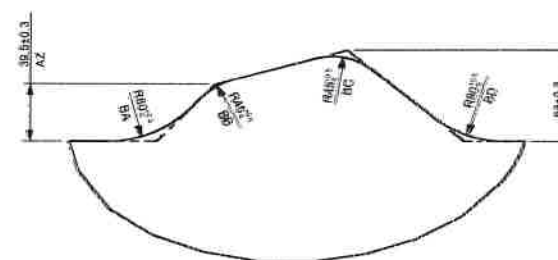
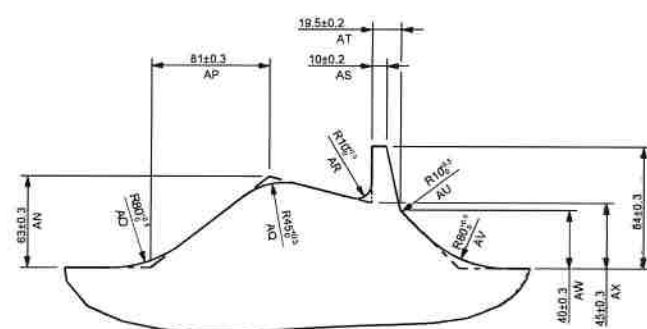
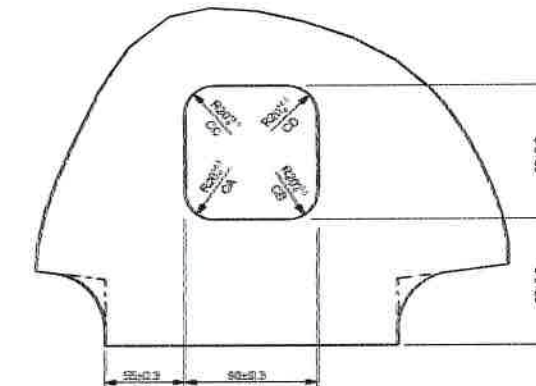
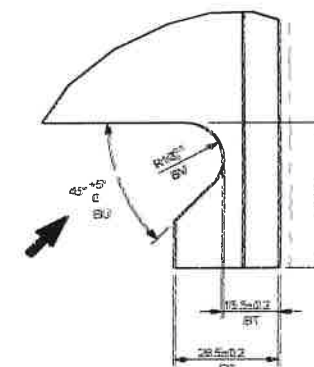
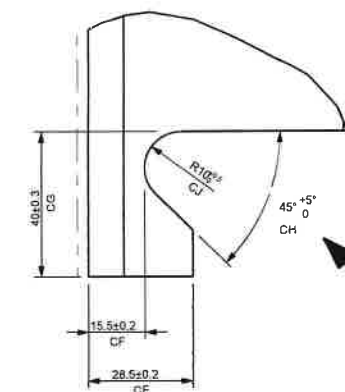
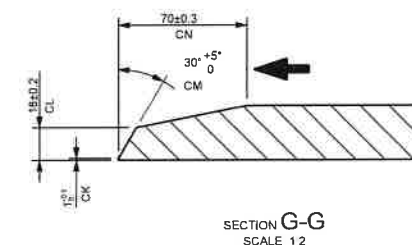
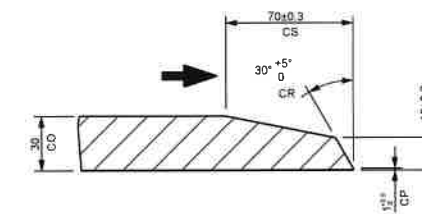
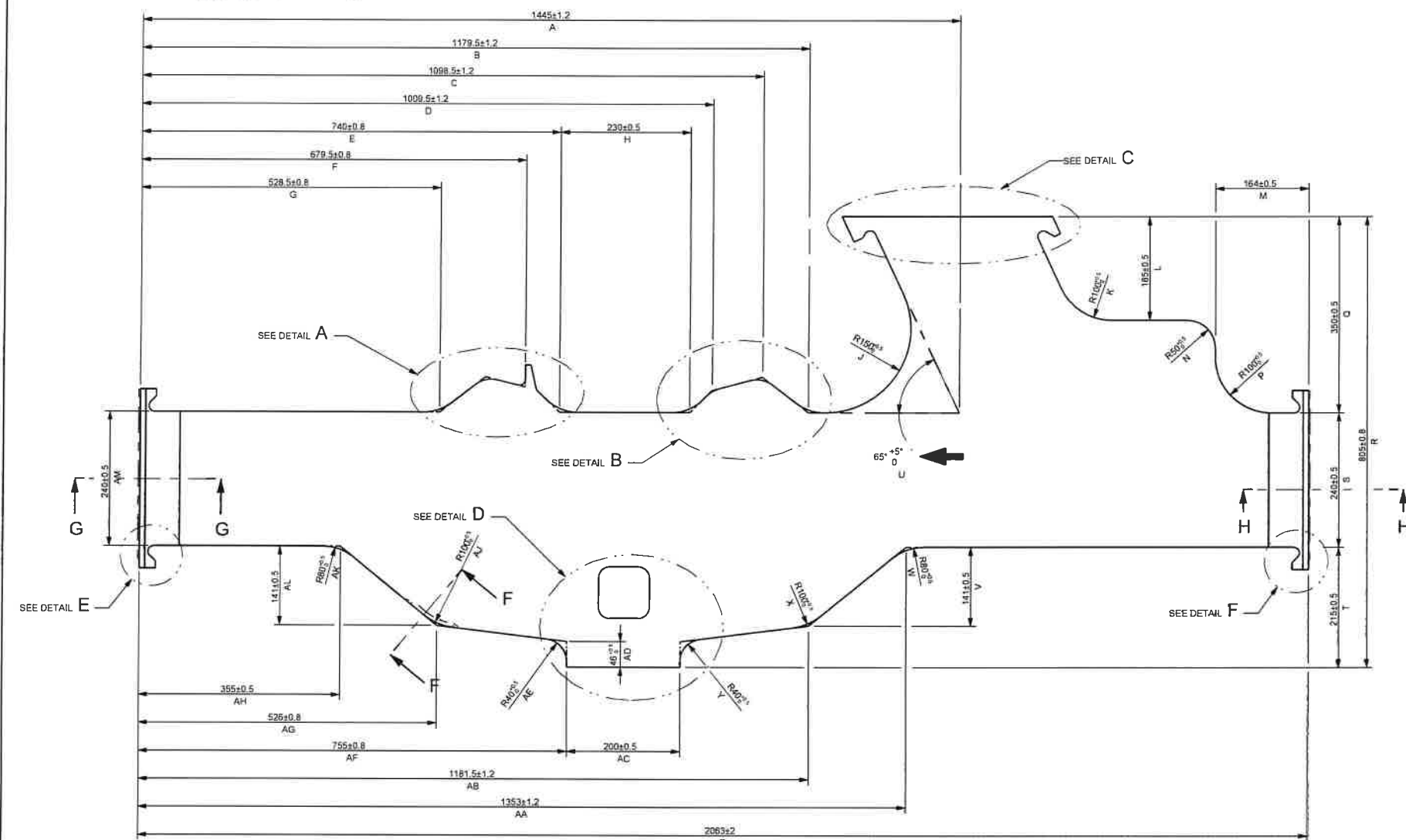
GROUP 1.2

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

M

2D STATUS IN WORK

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDEDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mk-E LINEAR DIMENSIONS SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



PART EDGES ISO 13715

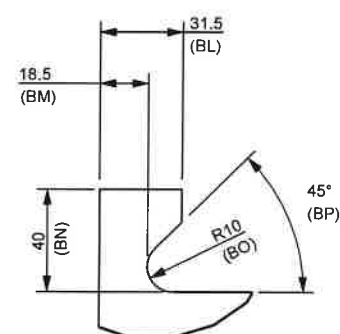
NOTE:
FOR CUTTING, REFER TO DRAWING NO: CUT_22A0109

COPYRIGHT THIS DRAWING IS THE PROPERTY OF TRANSNET THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM CHIEF EXECUTIVE TRANSNET ENGINEERING		ASSEMBLY ORG No	DRAWN M.J.M.	KILNER PARK LOCOMOTIVES		MATERIAL	
CLASS 23E		CHECKED M.J.M.	APPROVED B.E.D.	UPPER FLANGE		STEEL	
TYPE ELECTRIC LOCOMOTIVE		DATE	SCALE 1:5	TRANSNET ENGINEERING		SANS 50025 GRADE S355 J2+N	
DOCUMENT REFERENCE No		PD_PEL_KLP_DRW_23E		No		MAC 22A0109	
A-1 PROJECTION				SHEET 1 OF 1		REV. 7	

M	
A	E

GENERAL TOLERANCES

PART EDGES: ISO 13715	MASS	188.23 Kg
-----------------------	------	-----------



Technical drawing of a mechanical part with dimensions and tolerances:

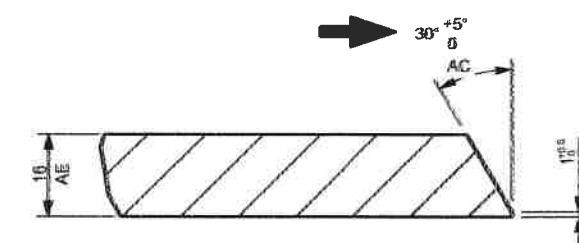
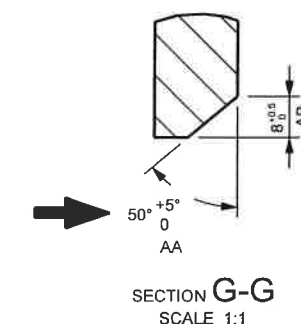
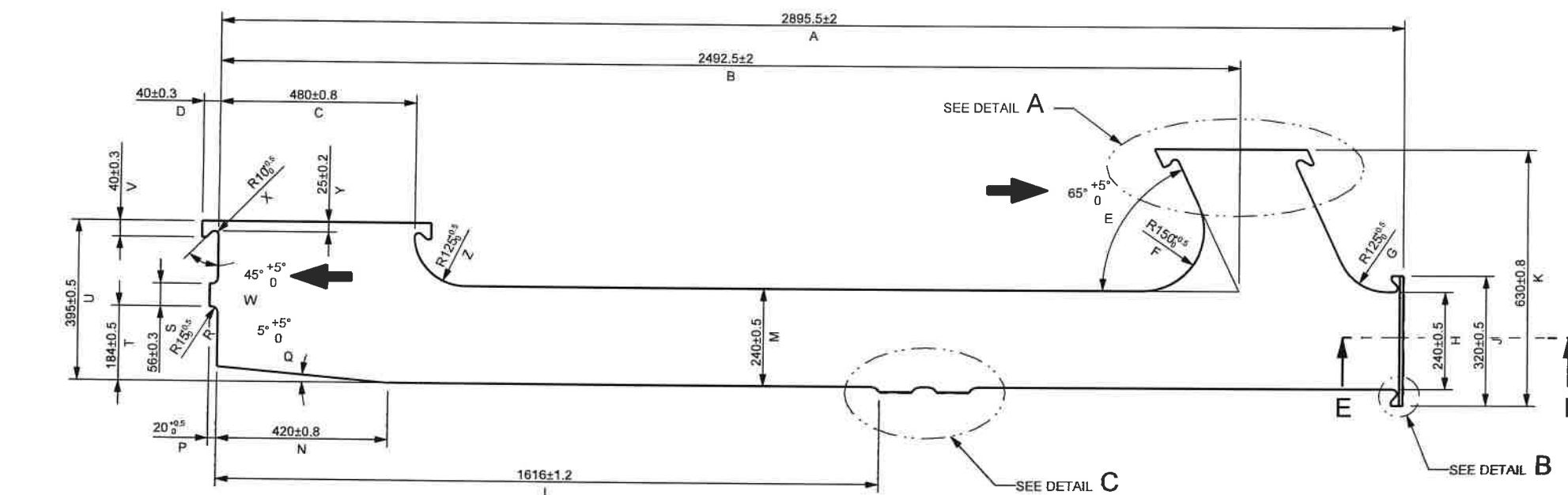
- Top horizontal dimensions: 55 ± 0.3 (BD) and 90 ± 0.3 (BE).
- Internal circular feature: $\varnothing 20 \pm 0.3$ (BG).
- Bottom horizontal dimension: 40 ± 0.3 (BH).
- Left slanted dimension: 100 ± 0.3 (BF).
- Right slanted dimension: 100 ± 0.3 (BK).

CUT 22A0109 REV. -6

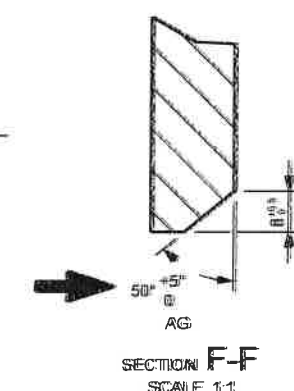
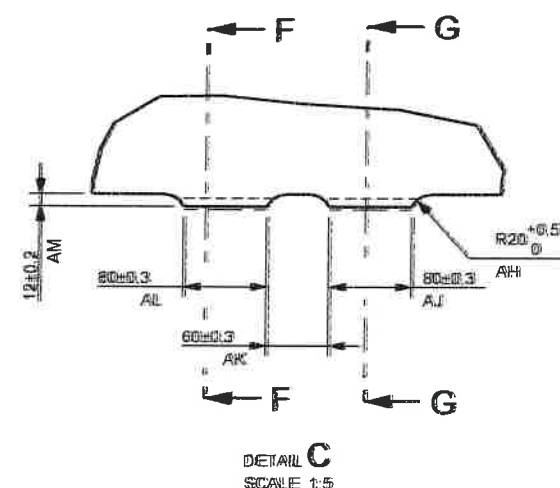
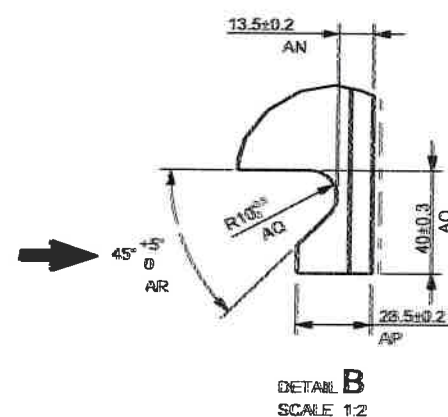
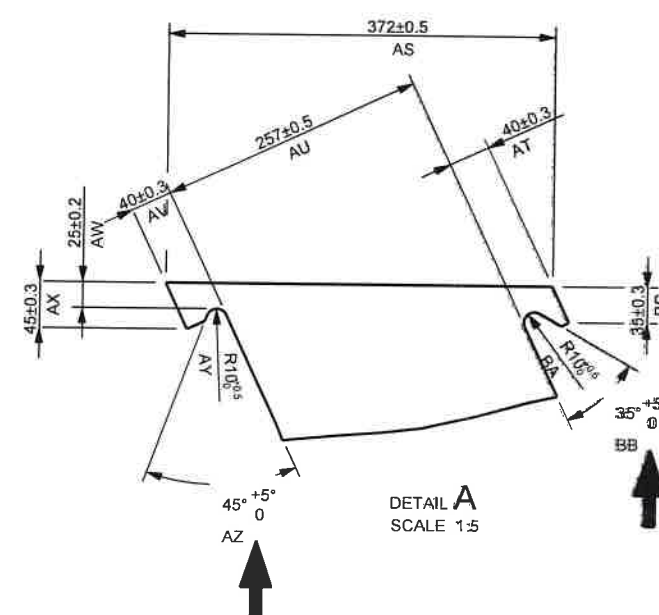
M	

GENERAL TOLERANCES

GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	




SECTION E-E
SCALE 1:1



SECTION F-F
SCALE 1:1

12.5 ✓ 3.2

NOTE:
FOR CUTTING, REFER TO DRAWING NO: CUT 22A0110

<p>COPYRIGHT</p> <p>THIS DRAWING TOGETHER WITH THE COPYRIGHT IS THE PROPERTY OF</p> <p>TRANSET</p> <p>THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM</p> <p>CHIEF EXECUTIVE TRANSET ENGINEERING</p>		<p>ASSEMBLY DRG NO.</p> <p>CLASS 23E</p> <p>TYPE ELECTRIC LOCOMOTIVE</p>		<p>DRAWN M.M.M.</p> <p>CHECKED M.M.M.</p> <p>APPROVED B.E.D.</p> <p>DATE</p> <p>SCALE 1:10</p>	
<p>A-2 PROJECTION </p>		<p>DOCUMENT REFERENCE No.</p>		<p>PD PEL K.P. DRW 23E</p>	

UPPER FLANGE

PART EDGES ISO 13715

MATERIAL

STEEL
SANS 50025 GRADE S355 J2+N
PLATE 16
2936 x 630

SHEET 1 OF 2

TRANSNET ENGINEERING

N

MAC 22A0110

REV. 5-

GROUP 1.3

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

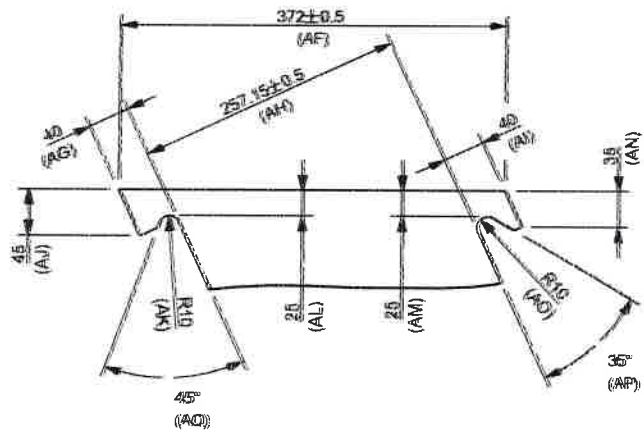
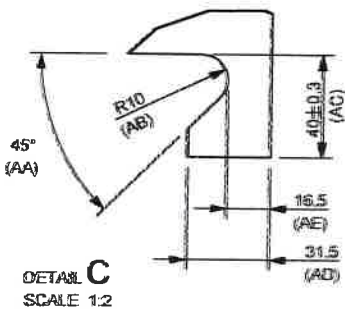
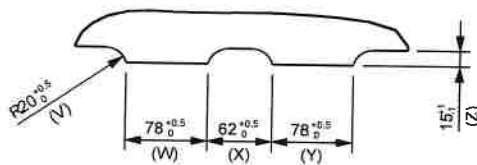
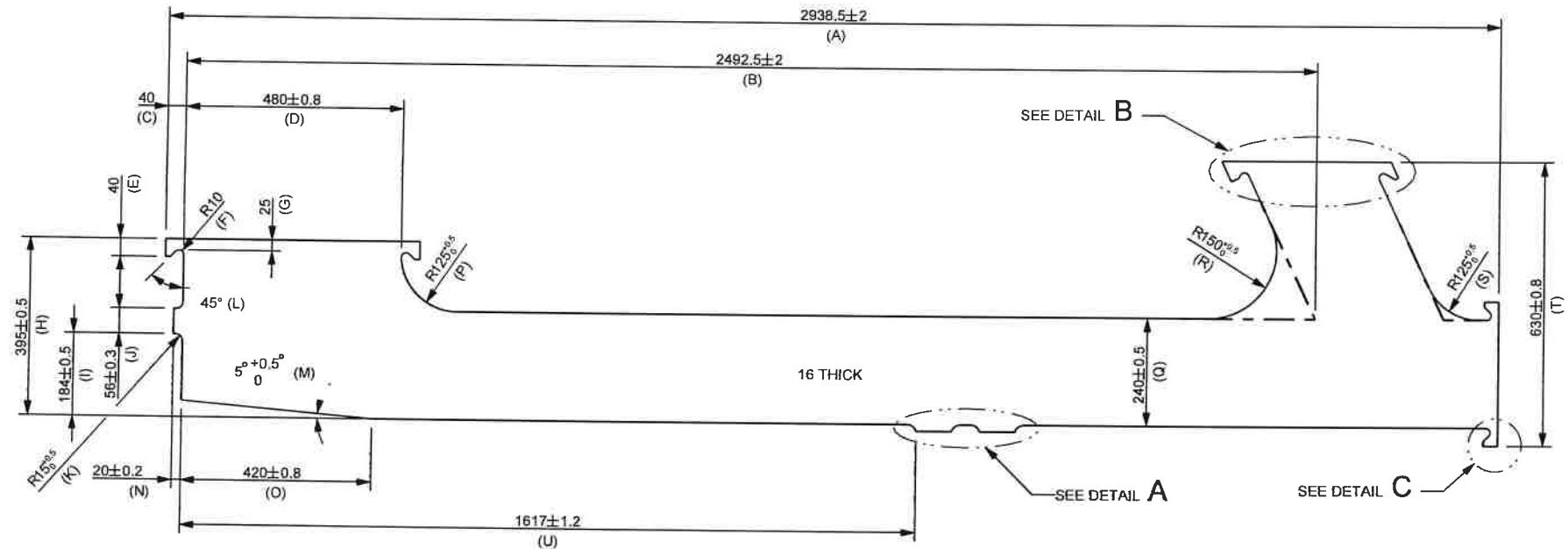
M
 A E

2D STATUS

IN WORK

GENERAL TOLERANCES

ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



0.3 0.3 (L)

PART EDGES ISO 13715

REV. 5
BT DRW UPDATED
PD_PEL_KLP_DRW_23E
2016-07-04 S.W.S.
REV. 4
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-10-23 M.J.M.
REV. 3
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-08-27 M.J.M.
REV. 2
TOLERANCE HAS BEEN
AMENDED.
PD_PEL_KLP_DRW_23E
2015-05-18 M.N.N.
REV. 1
CUTTING MARGINS ADDED
PD_PEL_KLP_DRW_23E
2015-05-04 M.J.M.

AMENDMENTS

MASS 111.79 Kg

COPYRIGHT
THIS DRAWING TOGETHER WITH THE COPYRIGHT
IS THE PROPERTY OF
TRANSNET
THIS DRAWING OR ANY PART THEREOF IS NOT
TO BE COPIED OR OTHERWISE REPRODUCED
OR USED FOR MANUFACTURE OR ANY OTHER
PURPOSE WITHOUT THE WRITTEN PERMISSION
FROM
CHIEF EXECUTIVE,
TRANSNET ENGINEERING

ASSEMBLY DRG No.

DRAWN

M.J.M.

CHECKED

M.N.N.

APPROVED

B.E.D.

CLASS 23E

TYPE ELECTRIC LOCOMOTIVE

DATE

SCALE

1:10

KILNER PARK

LOCOMOTIVES

UPPER FLANGE
SIDE BEAM RIGHT

MATERIAL

STEEL
SANS 50025 GRADE S355 J2+N
PLATE 16
2939 x 630

SHEET 1 OF 1

A-2

PROJECTION



DOCUMENT REFERENCE No.

PD_PEL_KLP_DRW_23E

TRANSNET ENGINEERING

No.

CUT_22A0110

REV.

-5

GROUP 1.4

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

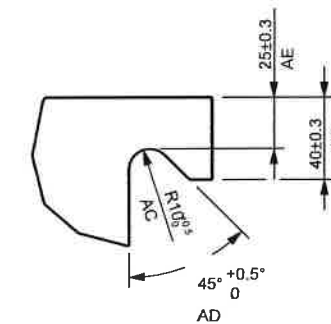
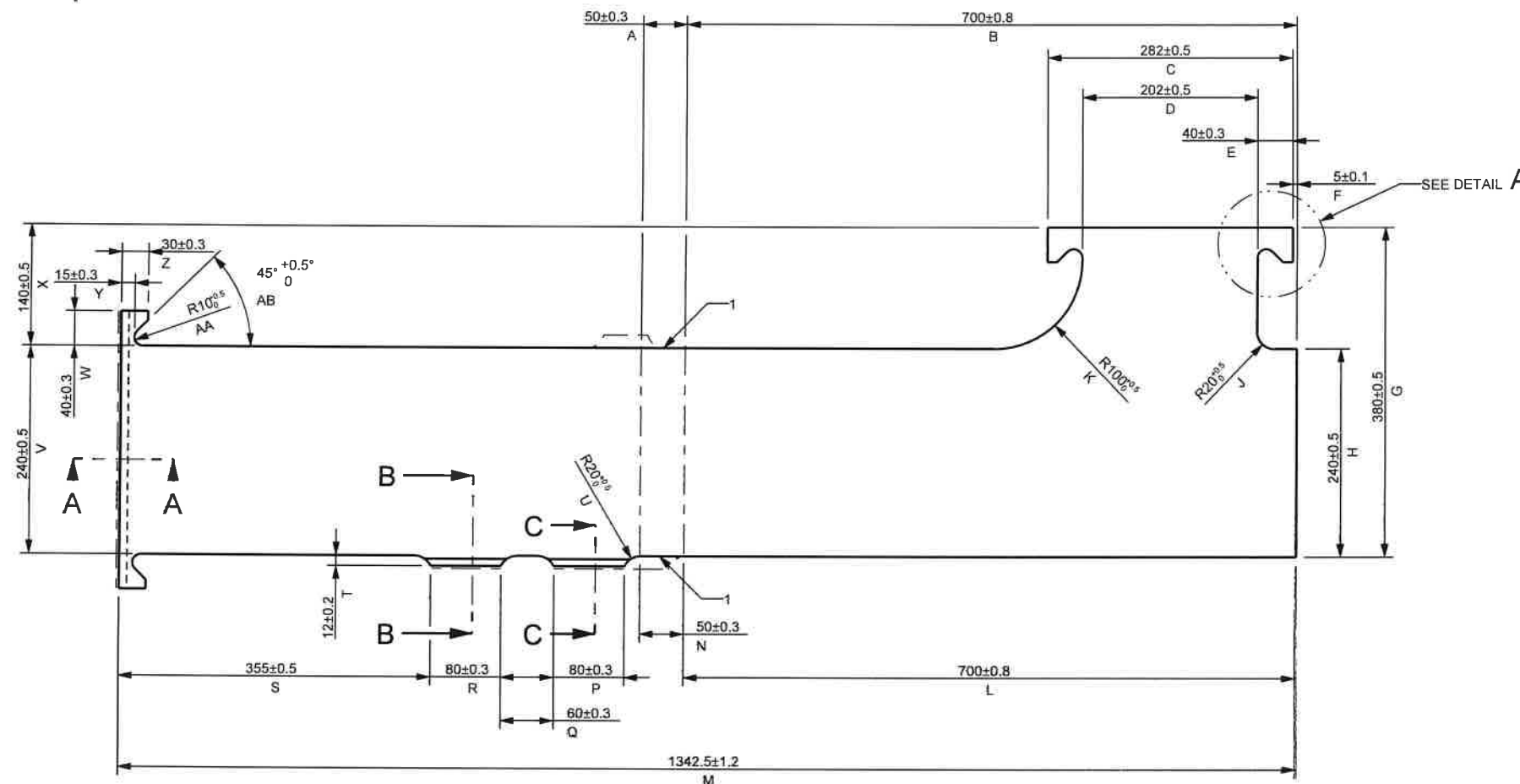
M
 A E

2D STATUS

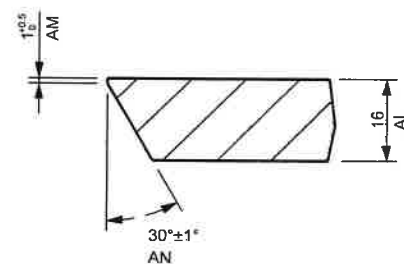
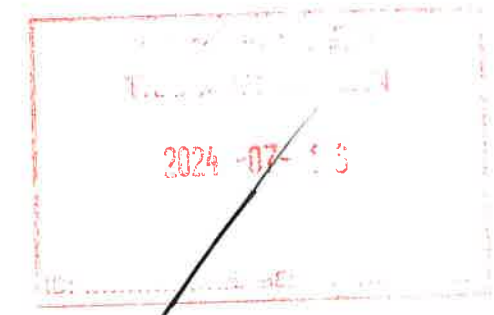
IN WORK

GENERAL TOLERANCES

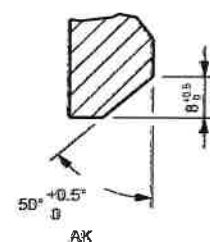
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



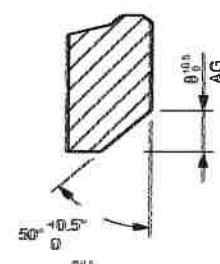
DETAIL A
 SCALE 2:5



SECTION A-A
 SCALE 1:1



SECTION B-B
 SCALE 1:1

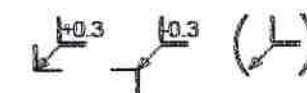


SECTION C-C
 SCALE 1:1

NOTE:

1. THE HEAT AFFECTING ZONES IN THE BENDING AREAS HAVE TO BE REMOVED BY GRINDING RESPECTIVELY MACHINING BEFORE BENDING.
2. FOR CUTTING, REFER TO DRAWING NO: CUT_22A0207

12.5
 3.2



PART EDGES ISO 13715

REV. 5
 TOLERANCE REMOVED
 FROM PLATE THICKNESS
 PD_PEL_KLP_DRW_23E
 2016-07-13 S.W.S

REV. 4
 MATERIAL GRADE
 AMENDED
 PD_PEL_KLP_DRW_23E
 2016-04-06 M.P.T.

REV. 3
 TOLERANCE ALTERED
 DIMENSION ADDED
 PD_PEL_KLP_DRW_23E
 2015-11-06 M.J.M.

REV. 2
 LETTERS ADDED FOR
 SOP.
 PD_PEL_KLP_DRW_23E
 2015-08-07 M.J.M.

REV. 1
 MACHINING SKETCH
 ADDED
 PD_PEL_KLP_DRW_23E
 23-06-2015 M.J.M.

AMENDMENTS
 MASS 44.91 Kg

COPYRIGHT
 THIS DRAWING TOGETHER WITH THE COPYRIGHT
 IS THE PROPERTY OF
 TRANSNET
 THIS DRAWING OR ANY PART THEREOF IS NOT
 TO BE COPIED OR OTHERWISE REPRODUCED
 OR USED FOR MANUFACTURE OR ANY OTHER
 PURPOSE WITHOUT THE WRITTEN PERMISSION
 FROM
 CHIEF EXECUTIVE
 TRANSNET ENGINEERING

A-2 PROJECTION

ASSEMBLY DRG No.	DRAWN	M.J.M.
	CHECKED	M.N.N.
CLASS 23E	APPROVED	S.E.D.
TYPE ELECTRIC LOCOMOTIVE	DATE	
	SCALE	1:5
DOCUMENT REFERENCE No.	PD_PEL_KLP_DRW_23E	

KILNER PARK

LOCOMOTIVES

UPPER FLANGE

TRANSNET ENGINEERING

No.

SHEET 1 OF 1

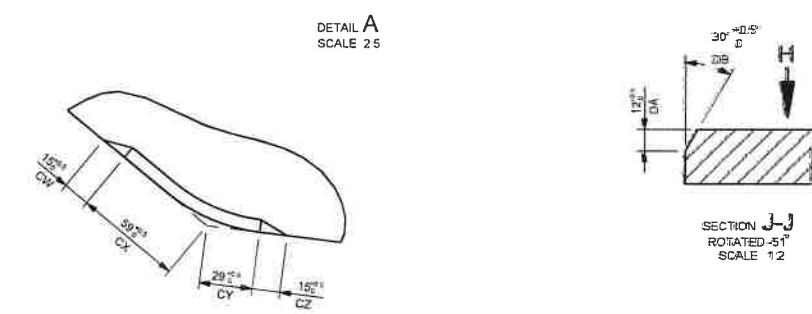
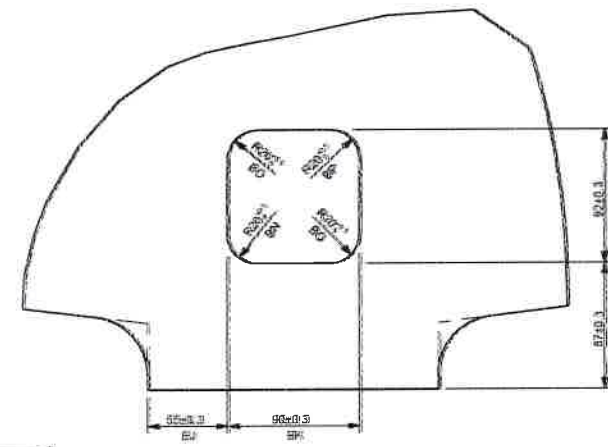
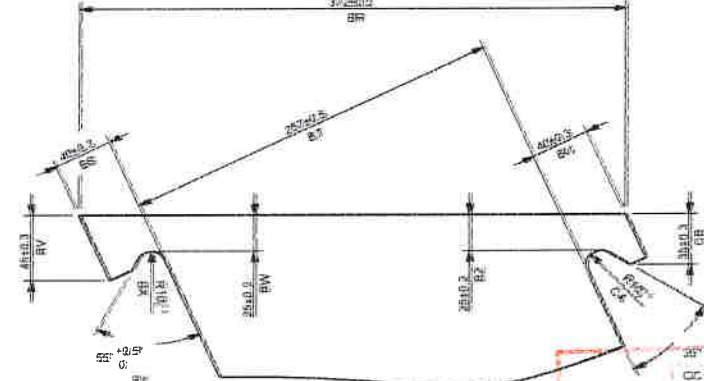
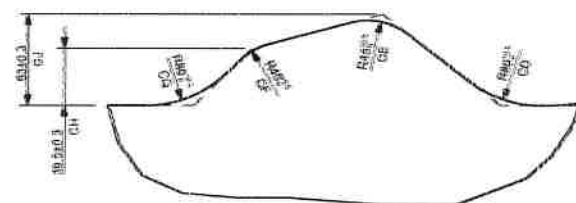
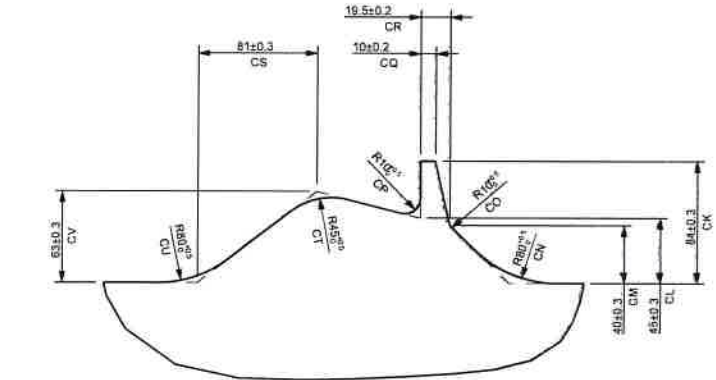
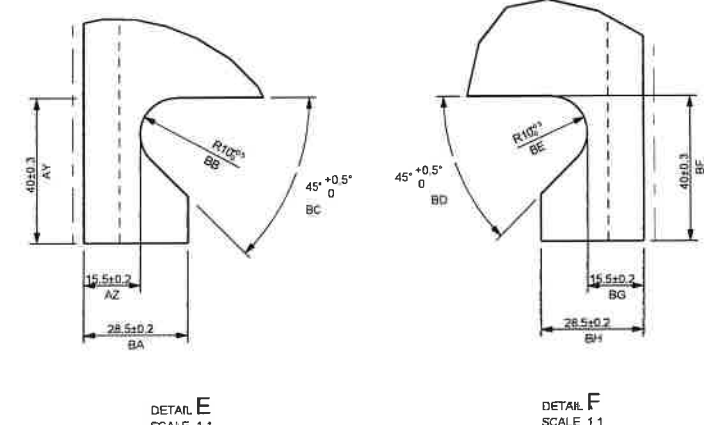
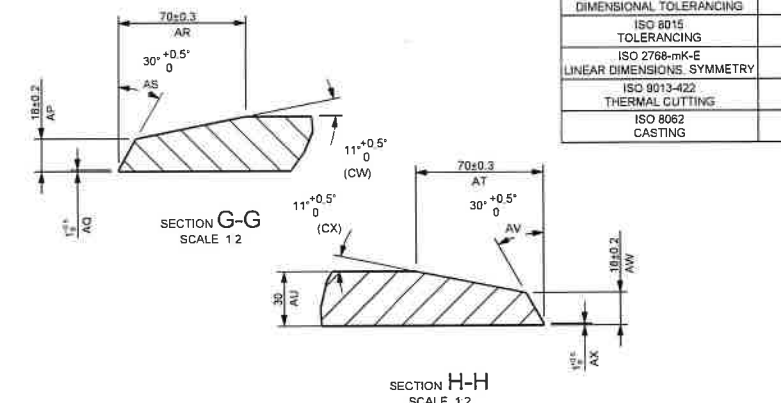
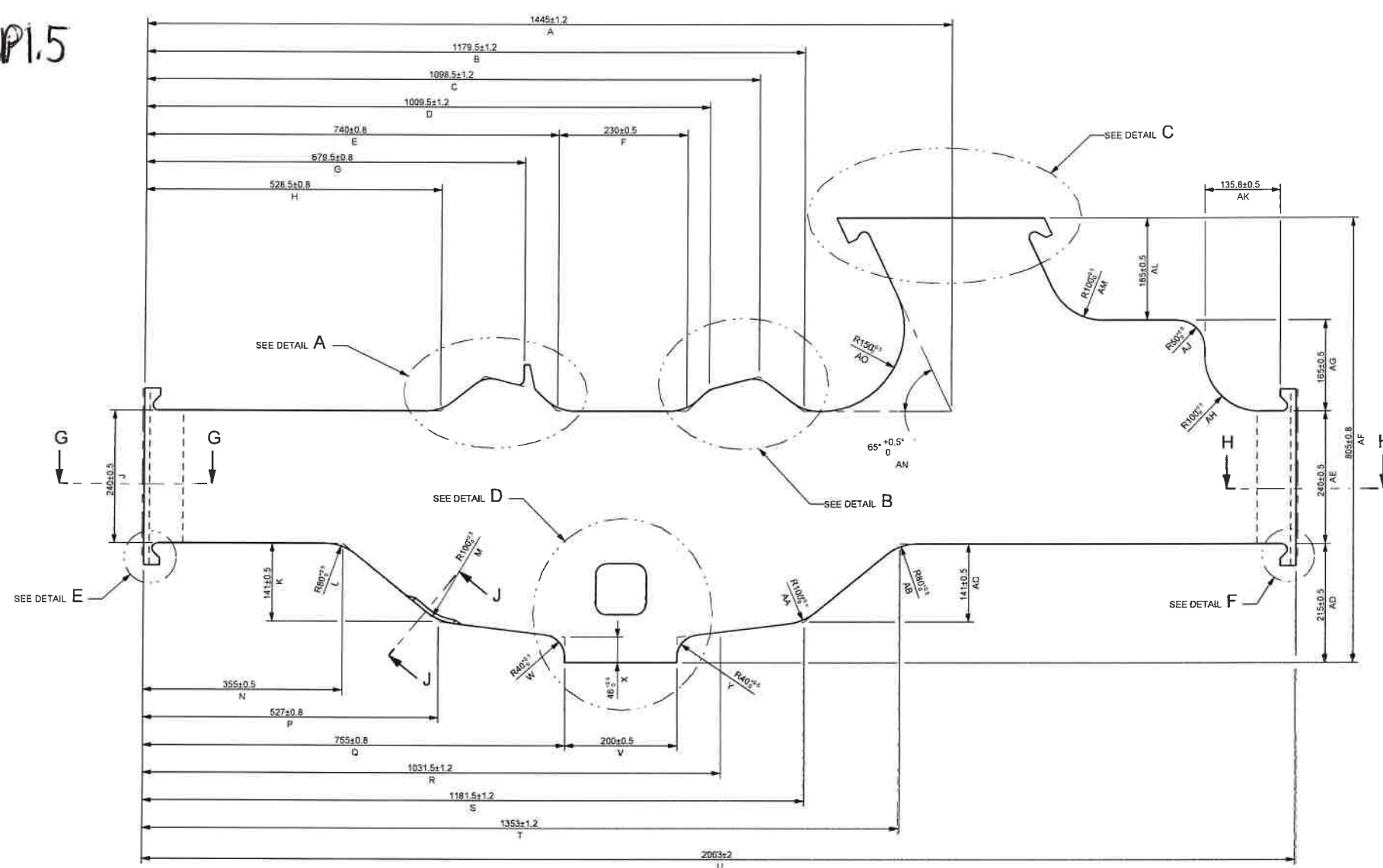
MAC_22A0207 REV. -5

MATERIAL
 STEEL
 SANS 50025 GRADE S355 J2C+N
 PLATE 16
 1348 x 420

GROUP 1.5

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

2D STATUS	IN WORK
GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDEDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



VIEW H
ROTATED 79°
SCALE 1:2

NOTE:
FOR CUTTING, REFER TO DRAWING NO: CUT_22A0209

COPYRIGHT THIS DRAWING IS THE PROPERTY OF TRANSNET THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM CHIEF EXECUTIVE TRANSNET ENGINEERING		ASSEMBLY ORIGIN CLASS 23E TYPE ELECTRIC LOCOMOTIVE SCALE 1:5	DRAWN M.J.M. CHECKED M.J.M. APPROVED B.E.D. DATE SCALE 1:5	2024-07-15 KILLNER PARK LOCOMOTIVES UPPER FLANGE	MATERIAL STEEL SANS 50025 GRADE S355 J2+N PLATE 16 2053 x 805	REVISIONS REV. 6 BT DRW UPDATED PD_PEL_KLP_DRW_23E 2016-07-11 S.W.S. REV. 5 DIMENSION ADDED PD_PEL_KLP_DRW_23E 2015-11-06 M.J.M. REV. 4 DESIGN CHANGE BT DRW. REV. A PD_PEL_KLP_DRW_23E 2015-10-27 M.J.M. REV. 3 DIMENSION ADDED PD_PEL_KLP_DRW_23E 2015-09-29 M.J.M. REV. 2 LETTERS ADDED FOR SOP PD_PEL_KLP_DRW_23E 2015-08-07 M.J.M. REV. 1 MACHINING SKETCH ADDED PD_PEL_KLP_DRW_23E 23-06-2015 M.J.M.	AMENDMENTS MASS 185.21 Kg	SHEET 1 OF 1 MAC 22A0209 REV -6
--	--	---	--	---	---	---	------------------------------	---------------------------------------

Group 1.5

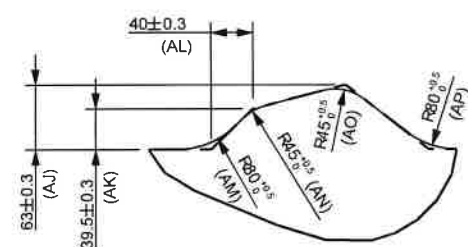
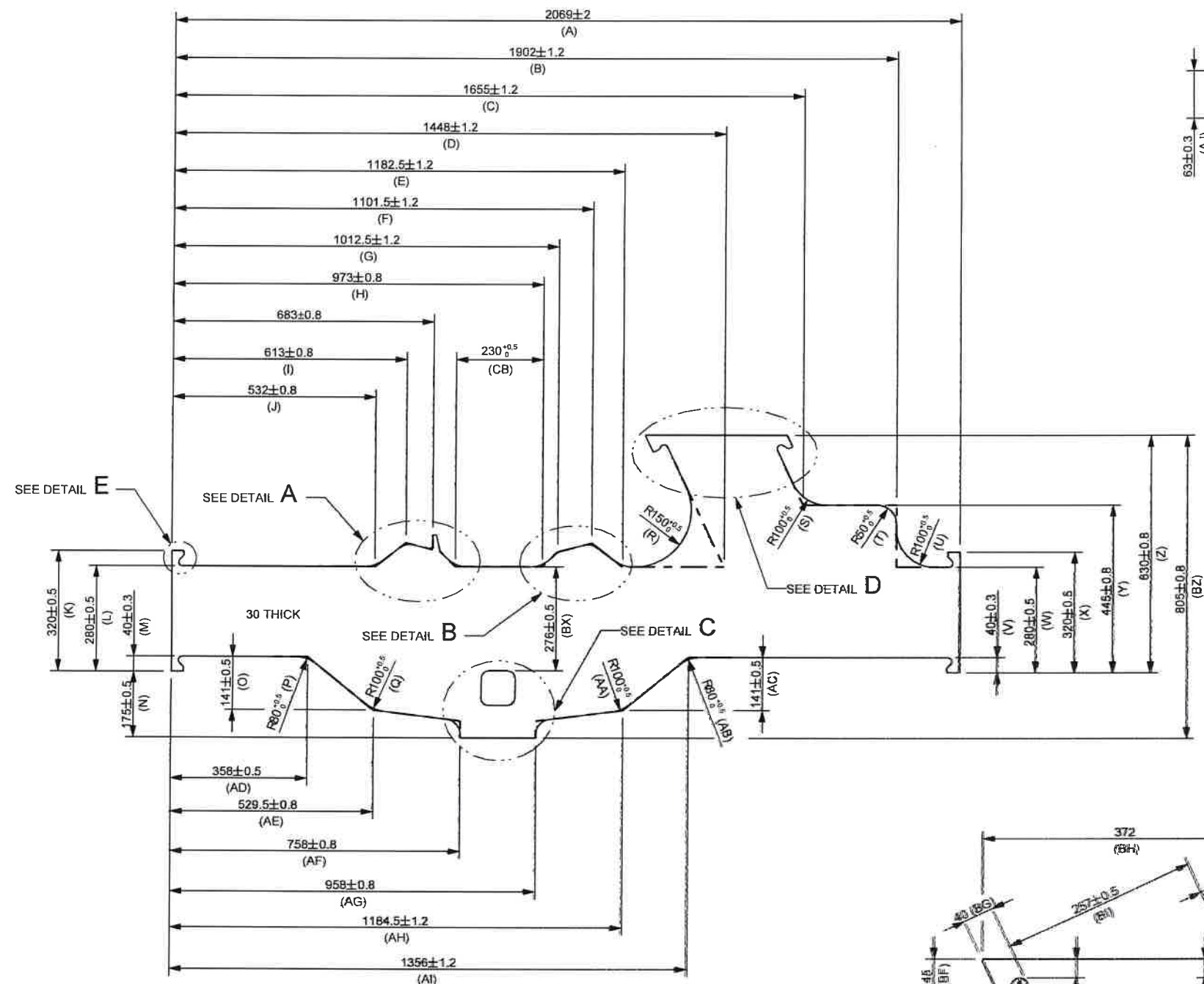
FOR UNTOLERANCED DIMENSIONS SEE ISO 2768-1: DESIGNATION
FOR GENERAL TOLERANCE ON WELDED CONSTRUCTIONS SEE ISO 13920: CLASS

M
A
E

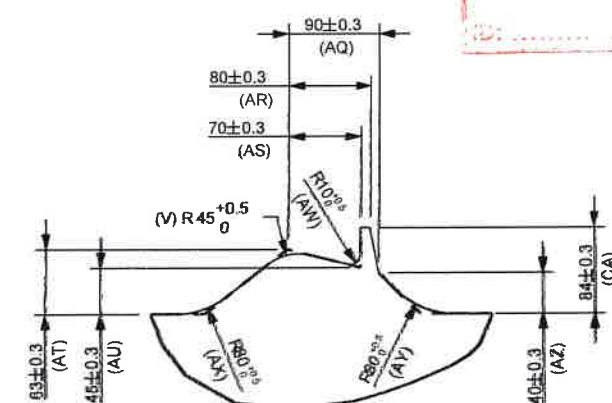
2D STATUS

IN WORK

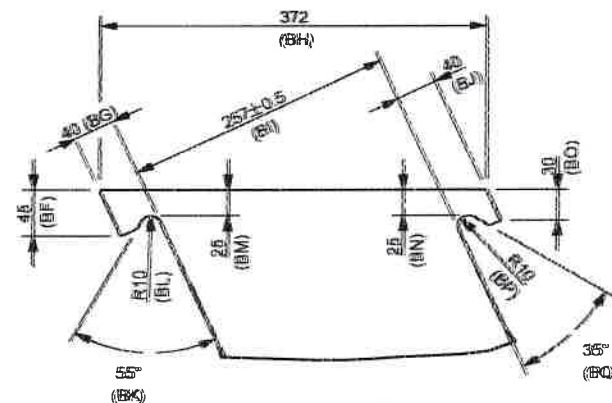
GENERAL TOLERANCES	
ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	



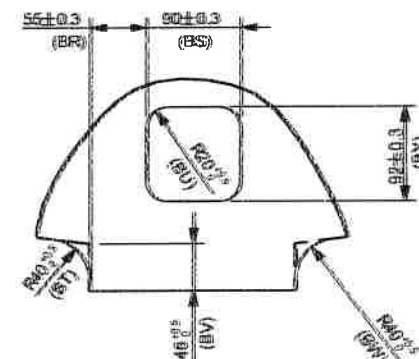
DETAIL B
SCALE 1:5



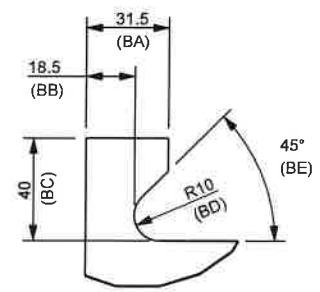
DETAIL A
SCALE 1:5



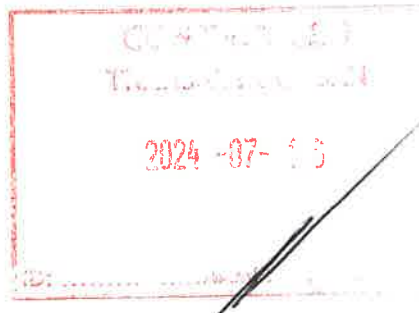
DETAIL D
SCALE 1:5



DETAIL C
SCALE 1:5



DETAIL E
SCALE 1:2



REV. 6
DIMENSION (BJ) ALTERED
BT DRW UPDATED
PD_PEL_KLP_DRW_23E
2016-08-09 S.V.S

REV. 5
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-11-06 M.J.M.

REV. 4
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-10-07 M.J.M.

REV. 3
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-08-27 M.J.M.

REV. 2
TOLERANCE HAS BEEN
AMENDED
PD_PEL_KLP_DRW_23E
2015-05-18 M.P.T.

REV. 1
CUTTING MARGINS ADDED
PD_PEL_KLP_DRW_23E
2015-05-05 M.N.N.

AMENDMENTS
MASS 188.23 Kg

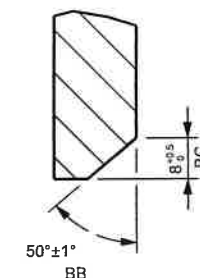
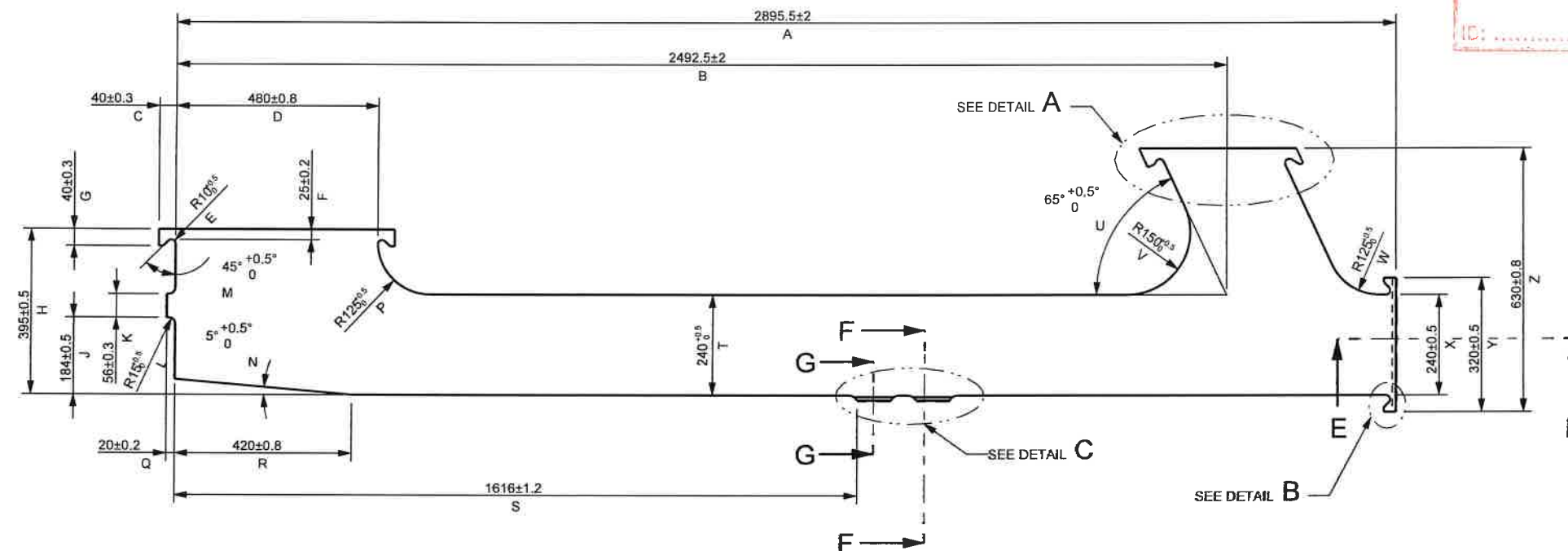
COPYRIGHT THIS DRAWING TOGETHER WITH THE COPYRIGHT IS THE PROPERTY OF TRANSNET THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM CHIEF EXECUTIVE TRANSNET ENGINEERING	ASSEMBLY ORG No.	DRAWN	M.J.M.
	CLASS 23E	CHECKED	M.N.N.
	TYPE ELECTRIC LOCOMOTIVE	APPROVED	B.E.D.
	DATE	SCALE	1:10
	DOCUMENT REFERENCE No.	PD_PEL_KLP_DRW_23E	

KILNER PARK LOCOMOTIVES	
UPPER FLANGE	
SIDE BEAM RIGHT	
TRANSNET ENGINEERING	No.

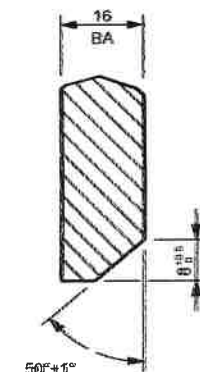
MATERIAL	
STEEL SANS 50025 GRADE S355 J2+N PLATE 30 2063 x 805	
SHEET 1 OF 1	REV. -6

ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

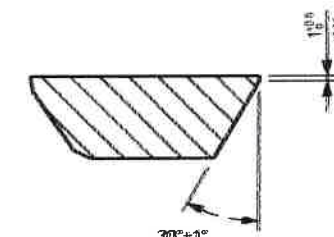
GROUP 1.6



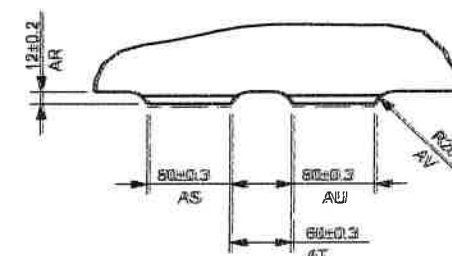
SECTION G-G
SCALE 1:1



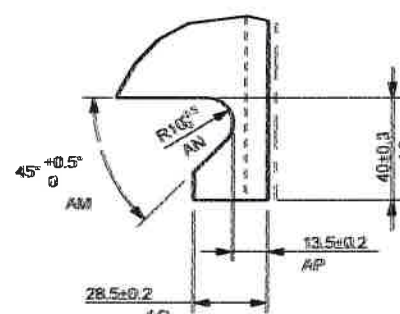
SECTION F-F
SCALE 1:1



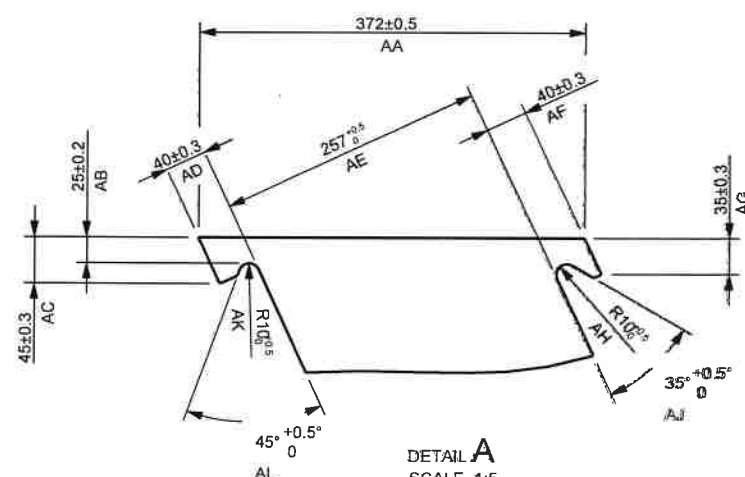
SECTION E-E
SCALE 1:1



DETAIL C
SCALE 1:5



DETAIL B
SCALE 1:2



DETAIL A
SCALE 1:5

12.5 ✓ 3.2 ✓



PART EDGES ISO 13715

REV 6
TOLERANCE REMOVED
FROM PLATE THICKNESS
PD_PEL_KLP_DRW_23E
2016-07-13 S.W.S

REV 5
DIMENSION ALTERED
PD_PEL_KLP_DRW_23E
2016-04-14 M.P.T.

REV 4
DIMENSION ALTERED.
PD_PEL_KLP_DRW_23E.
2015-11-06 M.J.M.


REV 3
TOLERANCE ALTERED
PD_PEL_KLP_DRW_23E
2015-10-27 M.J.M.

REV 2
LETTERS ADDED FOR
SOP.
PD_PEL_KLP_DRW_23E.
2015-08-07 M.J.M.

REV 1
MACHINING SKETCH
ADDED
PD_PEL_KLP_DRW_23E
23-06-2015 M.J.M.

AMENDMENTS
MASS 111.40 Kg

NOTE:
FOR CUTTING, REFER TO DRAWING NO: CUT_22A0210

<div>COPYRIGHT</div> <div>THIS DRAWING TOGETHER WITH THE COPYRIGHT IS THE PROPERTY OF</div> <div>TRANSNET</div> <div>THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM</div> <div>CHIEF EXECUTIVE, TRANSNET ENGINEERING</div>		ASSEMBLY DRG No.		DRAWN	M.J.M.	KILNER PARK		LOCOMOTIVES		MATERIAL						
				CHECKED	M.N.N.	UPPER FLANGE										
		CLASS 23E		APPROVED	B.E.D.											
		TYPE ELECTRIC LOCOMOTIVE		DATE			STEEL									
		SCALE	1:10		SANS 50025 GRADE S355 J2+N											
						PLATE 30										
						2936 x 630										
						SHEET 1 OF 1										
A-2		PROJECTION				DOCUMENT REFERENCE No.		PD_PEL_KLP_DRW_23E		TRANSNET ENGINEERING		No.	MAC 22A0210		REV.	-6

ITEM NO.
BT DRW. REV_A

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

M
A E

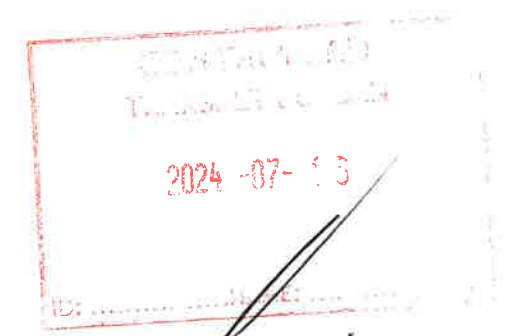
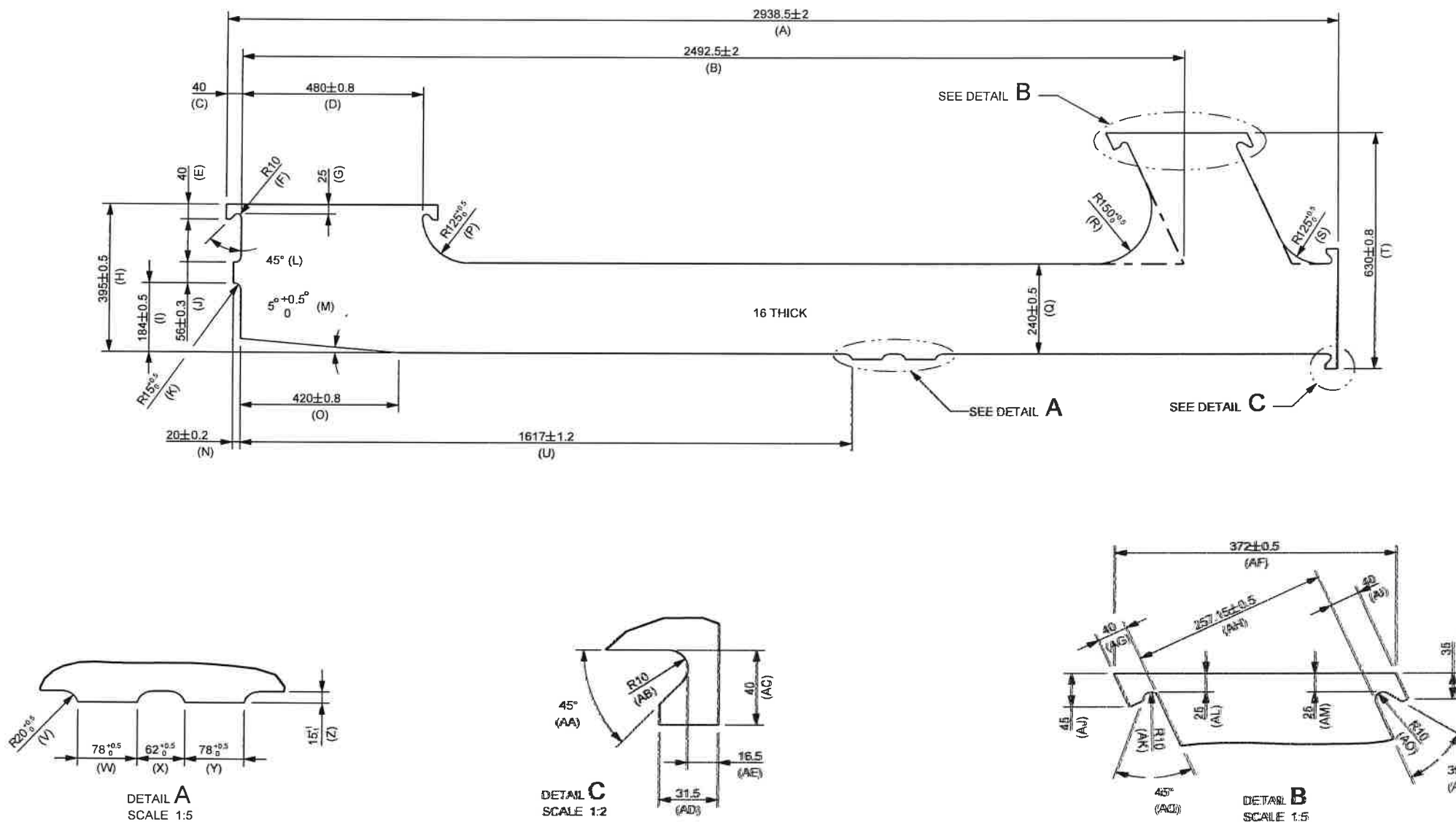
2D STATUS

IN WORK

GENERAL TOLERANCES

ISO 14405-1 DIMENSIONAL TOLERANCING	ISO 13920-B F WELDMENTS
ISO 8015 TOLERANCING	EN 10243-F FORGING
ISO 2768-mK-E LINEAR DIMENSIONS, SYMMETRY	DIN 6935 COLD BENDING
ISO 9013-422 THERMAL CUTTING	DIN 6930-m STAMPING
ISO 8062 CASTING	

GROUP 1.6



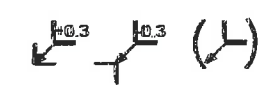
REV 5
BT DRW UPDATED
PD_PEL_KLP_DRW_23E
2016-07-04 S.W.S.

REV 4
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-10-07 M.J.M.

REV 3
TOLERANCES ALTERED
PD_PEL_KLP_DRW_23E
2015-08-27 M.J.M.

REV 2
TOLERANCE HAS BEEN
AMENDED
PD_PEL_KLP_DRW_23E
2015-05-18 M.P.T.

REV 1
CUTTING MARGINS ADDED
PD_PEL_KLP_DRW_23E
2015-05-05 M.N.N.



PART EDGES ISO 13715

AMENDMENTS
MASS 111.79 Kg

COPYRIGHT THIS DRAWING TOGETHER WITH THE COPYRIGHT IS THE PROPERTY OF TRANSNET THIS DRAWING OR ANY PART THEREOF IS NOT TO BE COPIED OR OTHERWISE REPRODUCED OR USED FOR MANUFACTURE OR ANY OTHER PURPOSE WITHOUT THE WRITTEN PERMISSION FROM CHIEF EXECUTIVE TRANSNET ENGINEERING	ASSEMBLY DRG No.	DRAWN	M.J.M.
		CHECKED	M.N.N.
	CLASS 23E	APPROVED	B.E.D.
	TYPE ELECTRIC LOCOMOTIVE	DATE	
		SCALE	1:10
A-2	PROJECTION	DOCUMENT REFERENCE No.	PD_PEL_KLP_DRW_23E

KILNER PARK	LOCOMOTIVES
UPPER FLANGE	
SIDE BEAM RIGHT	
SHEET 1 OF 1	
TRANSNET ENGINEERING	No.

MATERIAL
STEEL
SANS 50025 GRADE S355 J2+N
PLATE 16
2938 x 630
CUT_22A0210
REV. -5