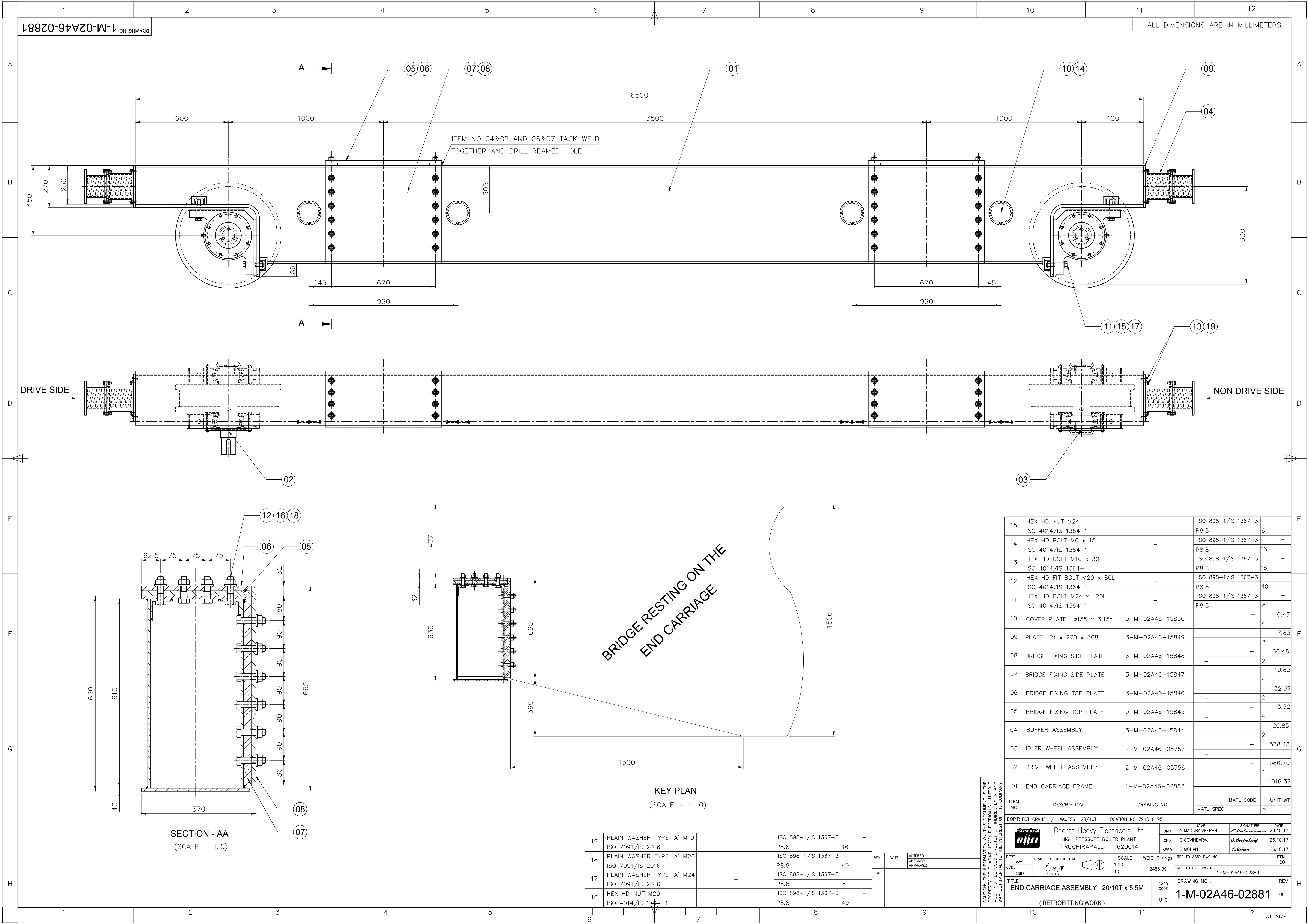




1-M-02A46-02881
DRAWING NO.

ALL DIMENSIONS ARE IN MILLIMETERS

ITEM NO 04&05 AND 06&07 TACK WELD
TOGETHER AND DRILL REAMED HOLE

BRIDGE RESTING ON THE
END CARRIAGE

SECTION - AA
(SCALE - 1:5)

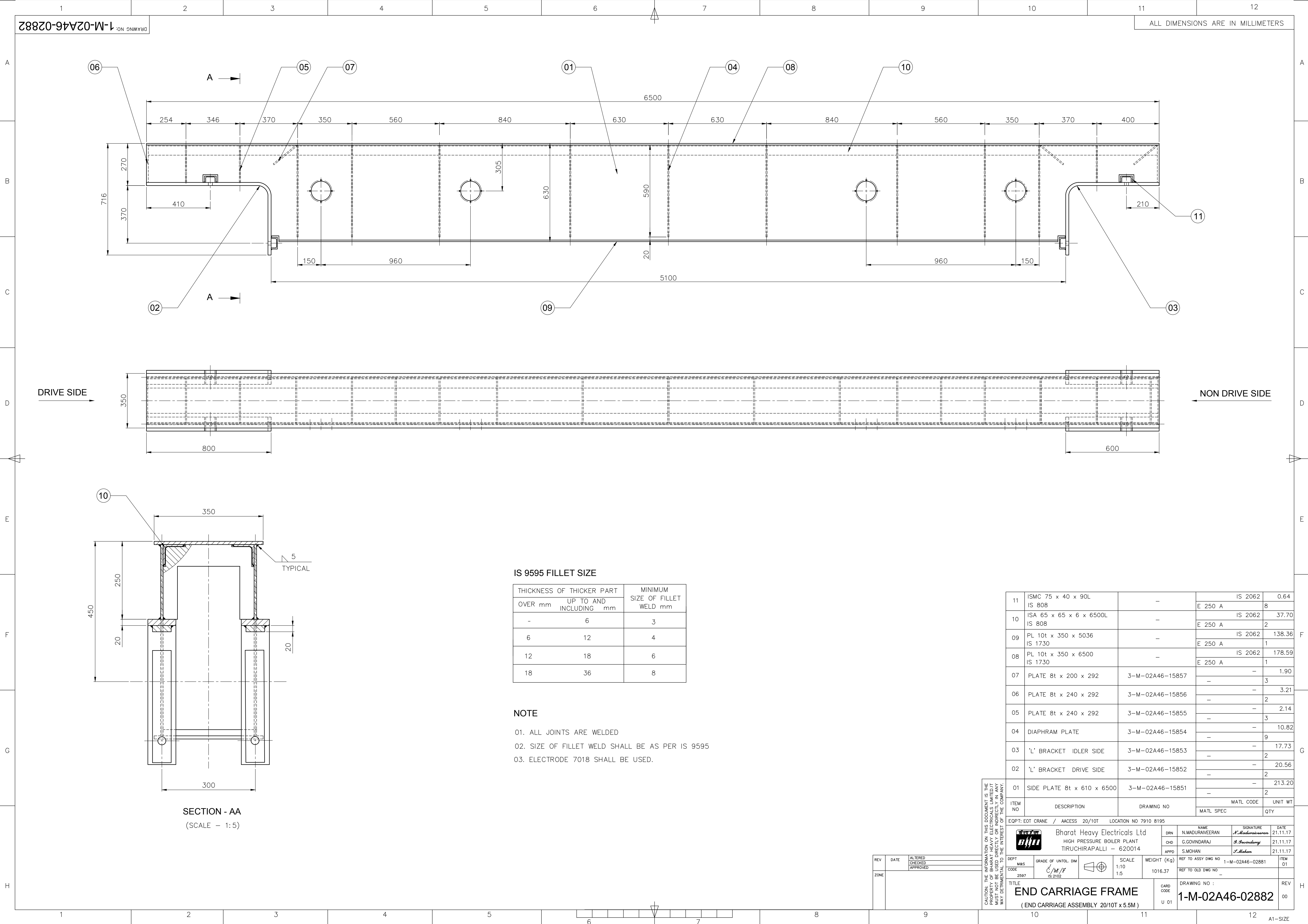
KEY PLAN
(SCALE - 1:10)

19	PLAIN WASHER TYPE 'A' M10 ISO 7091/IS 2016	-	ISO 898-1/IS 1367-3 P8.8	16	-
18	PLAIN WASHER TYPE 'A' M20 ISO 7091/IS 2016	-	ISO 898-1/IS 1367-3 P8.8	40	-
17	PLAIN WASHER TYPE 'A' M24 ISO 7091/IS 2016	-	ISO 898-1/IS 1367-3 P8.8	8	-
16	HEX HD NUT M20 ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	40	-

15	HEX HD NUT M24 ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	8	-
14	HEX HD BOLT M6 x 15L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	16	-
13	HEX HD BOLT M10 x 30L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	16	-
12	HEX HD FIT BOLT M20 x 80L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	40	-
11	HEX HD BOLT M24 x 120L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	8	-
10	COVER PLATE $\phi 155$ x 3.15t	3-M-02A46-15850	-	4	0.47
09	PLATE 12t x 270 x 308	3-M-02A46-15849	-	2	7.83
08	BRIDGE FIXING SIDE PLATE	3-M-02A46-15848	-	2	60.48
07	BRIDGE FIXING SIDE PLATE	3-M-02A46-15847	-	4	10.83
06	BRIDGE FIXING TOP PLATE	3-M-02A46-15846	-	2	32.97
05	BRIDGE FIXING TOP PLATE	3-M-02A46-15845	-	4	3.52
04	BUFFER ASSEMBLY	3-M-02A46-15844	-	2	20.85
03	IDLER WHEEL ASSEMBLY	2-M-02A46-05757	-	1	578.48
02	DRIVE WHEEL ASSEMBLY	2-M-02A46-05756	-	1	586.70
01	END CARRIAGE FRAME	1-M-02A46-02882	-	1	1016.37
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT	QTY
			MATL SPEC		

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WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

DEPT	M/S	GRADE OF UNTOOL DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO	ITEM NO
2597	C/M/F	IS:2102	1:10 1:5	2485.09	1-M-02A46-02880	00
TITLE	CARD CODE	DRAWING NO :	REV			
END CARRIAGE ASSEMBLY 20/10T x 5.5M (RETROFITTING WORK)	U 01	1-M-02A46-02881	00			



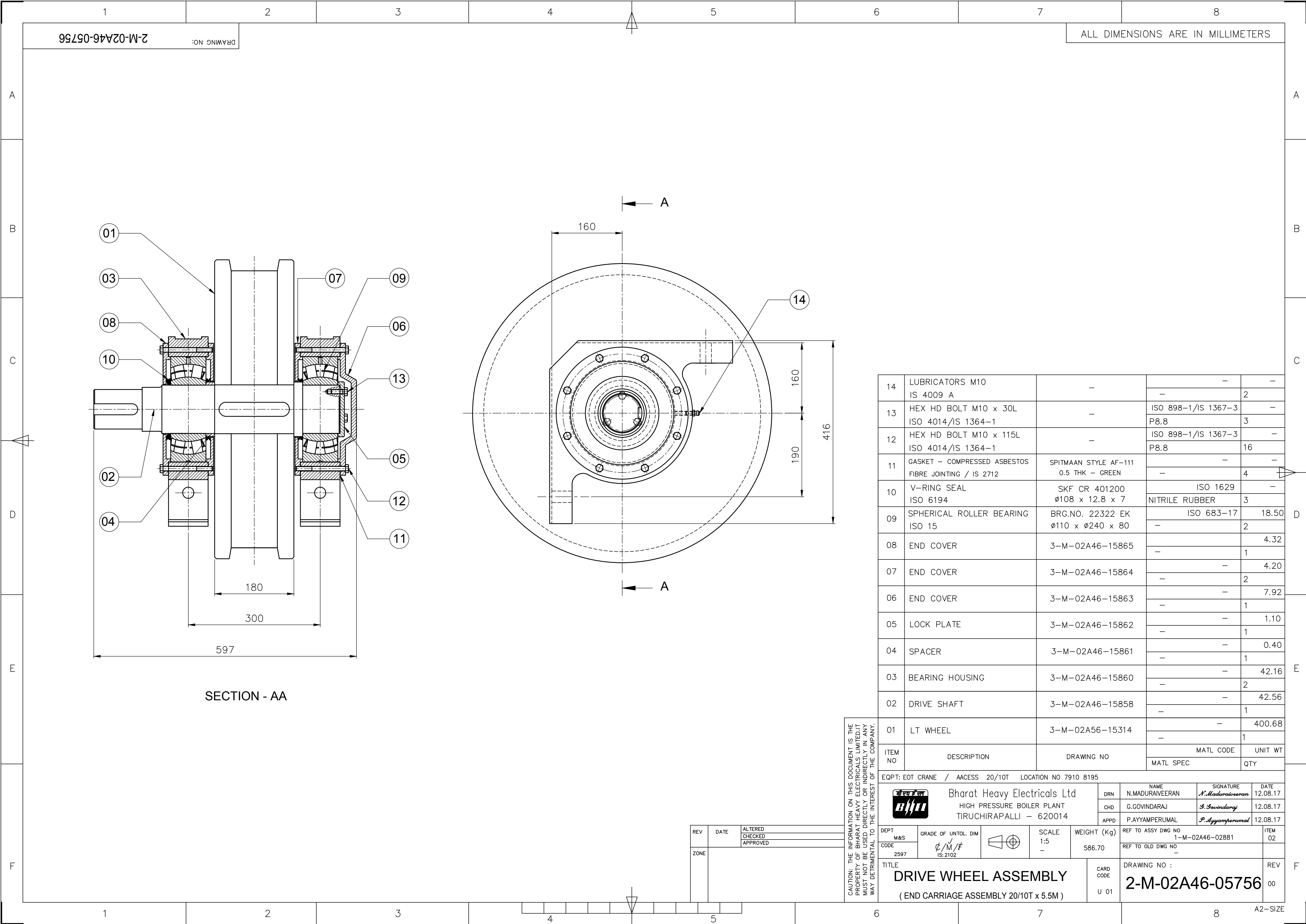
IS 9595 FILLET SIZE

THICKNESS OF THICKER PART OVER mm	UP TO AND INCLUDING mm	MINIMUM SIZE OF FILLET WELD mm
-	6	3
6	12	4
12	18	6
18	36	8

NOTE

01. ALL JOINTS ARE WELDED
02. SIZE OF FILLET WELD SHALL BE AS PER IS 9595
03. ELECTRODE 7018 SHALL BE USED.

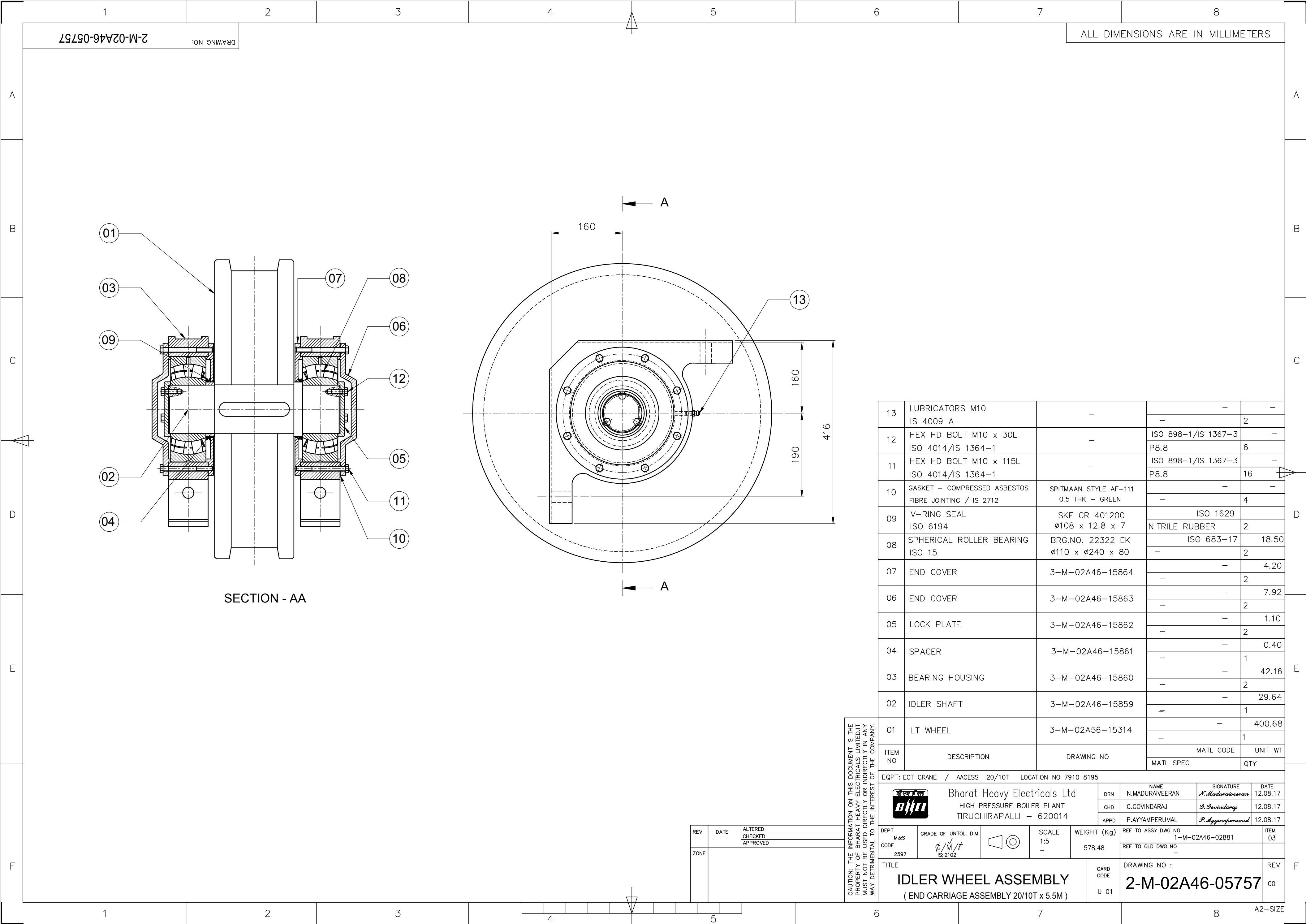
11	ISMC 75 x 40 x 90L IS 808	-	IS 2062	0.64
10	ISA 65 x 65 x 6 x 6500L IS 808	-	IS 2062	37.70
09	PL 10t x 350 x 5036 IS 1730	-	E 250 A	2
08	PL 10t x 350 x 6500 IS 1730	-	IS 2062	138.36
07	PLATE 8t x 200 x 292	3-M-02A46-15857	E 250 A	1
06	PLATE 8t x 240 x 292	3-M-02A46-15856	IS 2062	178.59
05	PLATE 8t x 240 x 292	3-M-02A46-15855	E 250 A	1
04	DIAPHRAM PLATE	3-M-02A46-15854	-	1.90
03	'L' BRACKET IDLER SIDE	3-M-02A46-15853	-	3.21
02	'L' BRACKET DRIVE SIDE	3-M-02A46-15852	-	2
01	SIDE PLATE 8t x 610 x 6500	3-M-02A46-15851	-	2.14
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: EOT CRANE / ACCESS 20/10T LOCATION NO 7910 8195				
DEPT	M/S	GRADE OF UNTOL DIM	SCALE	WEIGHT (Kg)
2597	CH/M/F	IS:2102	1:10 1:5	1016.37
TITLE	END CARRIAGE FRAME (END CARRIAGE ASSEMBLY 20/10T x 5.5M)			
CARD CODE	U 01	DRAWING NO :	1-M-02A46-02882	REV 00
DRN	N.MADURAVEERAN	SIGNATURE	S. Maduraveeran	DATE 21.11.17
CHD	G.GOVINDARAJ	SIGNATURE	S. Govindaraj	DATE 21.11.17
APPD	S.MOHAN	SIGNATURE	S. Mohan	DATE 21.11.17



14	LUBRICATORS M10 IS 4009 A	-	-	2
13	HEX HD BOLT M10 x 30L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	3
12	HEX HD BOLT M10 x 115L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	16
11	GASKET - COMPRESSED ASBESTOS FIBRE JOINTING / IS 2712	SPITMAAN STYLE AF-111 0.5 THK - GREEN	-	4
10	V-RING SEAL ISO 6194	SKF CR 401200 ø108 x 12.8 x 7	ISO 1629 NITRILE RUBBER	3
09	SPHERICAL ROLLER BEARING ISO 15	BRG.NO. 22322 EK ø110 x ø240 x 80	ISO 683-17	18.50
08	END COVER	3-M-02A46-15865	-	4.32
07	END COVER	3-M-02A46-15864	-	4.20
06	END COVER	3-M-02A46-15863	-	7.92
05	LOCK PLATE	3-M-02A46-15862	-	1.10
04	SPACER	3-M-02A46-15861	-	0.40
03	BEARING HOUSING	3-M-02A46-15860	-	42.16
02	DRIVE SHAFT	3-M-02A46-15858	-	42.56
01	LT WHEEL	3-M-02A56-15314	-	400.68
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

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EQPT: EOT CRANE / AACCESS 20/10T LOCATION NO 7910 8195		NAME N.MADURAIVEERAN		SIGNATURE <i>N. Maduraiveeran</i>	DATE 12.08.17	
CHD G.GOVINDARAJ		G.GOVINDARAJ		<i>G. Govindaraj</i>		12.08.17
APPD P.AYYAMPERUMAL		P.AYYAMPERUMAL		<i>P. Ayyamperumal</i>		12.08.17
DEPT M&S	GRADE OF UNTOL. DIM ø / M / # IS: 2102	SCALE 1:5	WEIGHT (Kg) 586.70	REF TO ASSY DWG NO 1-M-02A46-02881	ITEM 02	
CODE 2597				REF TO OLD DWG NO -		
TITLE DRIVE WHEEL ASSEMBLY (END CARRIAGE ASSEMBLY 20/10T x 5.5M)			CARD CODE U 01	DRAWING NO : 2-M-02A46-05756	REV 00	



2-M-02A46-05757

DRAWING NO.:

ALL DIMENSIONS ARE IN MILLIMETERS

SECTION - AA

13	LUBRICATORS M10 IS 4009 A	-	-	-
			-	2
12	HEX HD BOLT M10 x 30L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	-
			-	6
11	HEX HD BOLT M10 x 115L ISO 4014/IS 1364-1	-	ISO 898-1/IS 1367-3 P8.8	-
			-	16
10	GASKET - COMPRESSED ASBESTOS FIBRE JOINTING / IS 2712	SPITMAAN STYLE AF-111 0.5 THK - GREEN	-	-
			-	4
09	V-RING SEAL ISO 6194	SKF CR 401200 ø108 x 12.8 x 7	ISO 1629	-
			NITRILE RUBBER	2
08	SPHERICAL ROLLER BEARING ISO 15	BRG.NO. 22322 EK ø110 x ø240 x 80	ISO 683-17	18.50
			-	2
07	END COVER	3-M-02A46-15864	-	4.20
			-	2
06	END COVER	3-M-02A46-15863	-	7.92
			-	2
05	LOCK PLATE	3-M-02A46-15862	-	1.10
			-	2
04	SPACER	3-M-02A46-15861	-	0.40
			-	1
03	BEARING HOUSING	3-M-02A46-15860	-	42.16
			-	2
02	IDLER SHAFT	3-M-02A46-15859	-	29.64
			-	1
01	LT WHEEL	3-M-02A56-15314	-	400.68
			-	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: EOT CRANE / AACCESS 20/10T LOCATION NO 7910 8195



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME N.MADURAIVEERAN	SIGNATURE <i>N. Maduraiveeran</i>	DATE 12.08.17
CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	12.08.17
APPD	P.AYYAMPERUMAL	<i>P. Ayyamperumal</i>	12.08.17

DEPT M&S	GRADE OF UNTOL. DIM ø / M / # IS: 2102	SCALE 1:5 -	WEIGHT (Kg) 578.48	REF TO ASSY DWG NO 1-M-02A46-02881	ITEM 03
CODE 2597				REF TO OLD DWG NO -	

TITLE IDLER WHEEL ASSEMBLY (END CARRIAGE ASSEMBLY 20/10T x 5.5M)	CARD CODE U 01	DRAWING NO : 2-M-02A46-05757	REV 00
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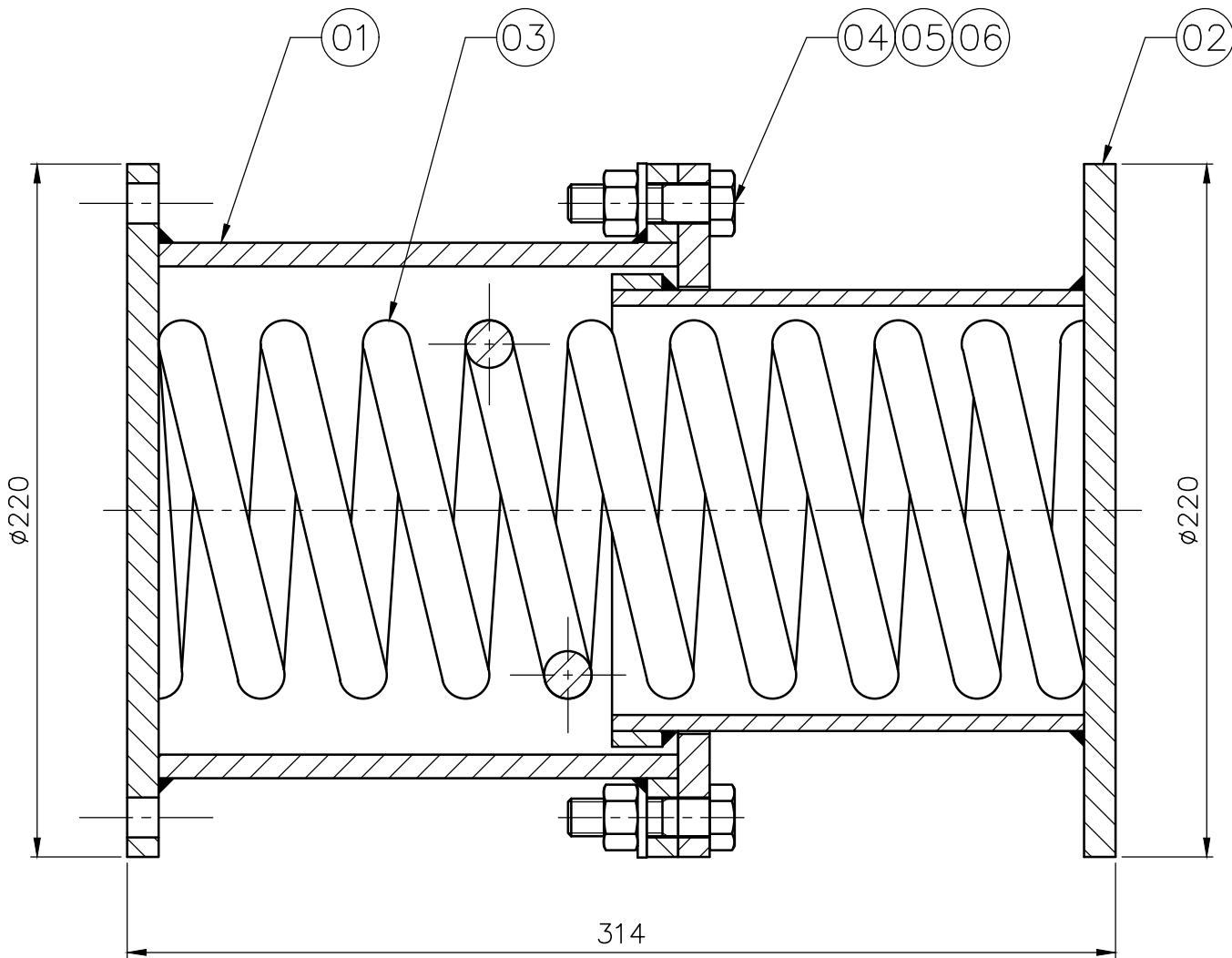
REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

3-M-02A46-15844

DRAWING NO:



06	PLAIN WASHER TYPE 'A' M12 ISO 7091/IS 2016	—	ISO 898-1/IS 1367-3	—
			P8.8	4
05	HEX HD NUT M12 ISO 4014/IS 1364-1	—	ISO 898-1/IS 1367-3	—
			P8.8	4
04	HEX HD BOLT M12 x 45L ISO 4014/IS 1364-1	—	ISO 898-1/IS 1367-3	—
			P8.8	4
03	COMPRESSION SPRING	3-M-02A46-15868	IS 3431	4.14
			SPRING STEEL 55 Si 7	1
02	BUFFER INNER HOUSING	3-M-02A46-15867	—	7.14
			—	1
01	BUFFER OUTER HOUSING	3-M-02A46-15866	—	9.30
			—	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 17.02.18
CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	17.02.18
APPD	S.MOAHN	<i>S.Mohan</i>	17.02.18

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

DEPT M&S	GRADE OF UNTOL. DIM φ/√M/√	SCALE 1:2	WEIGHT (Kg) 20.85	REF TO ASSY DWG NO 1-M-02A46-02881	ITEM 04
CODE 2597	IS: 2102			REF TO OLD DWG NO —	
TITLE BUFFER ASSEMBLY (END CARRIAGE ASSEMBLY 20/10T x 5.5M)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15844	REV 00

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A3-SIZE

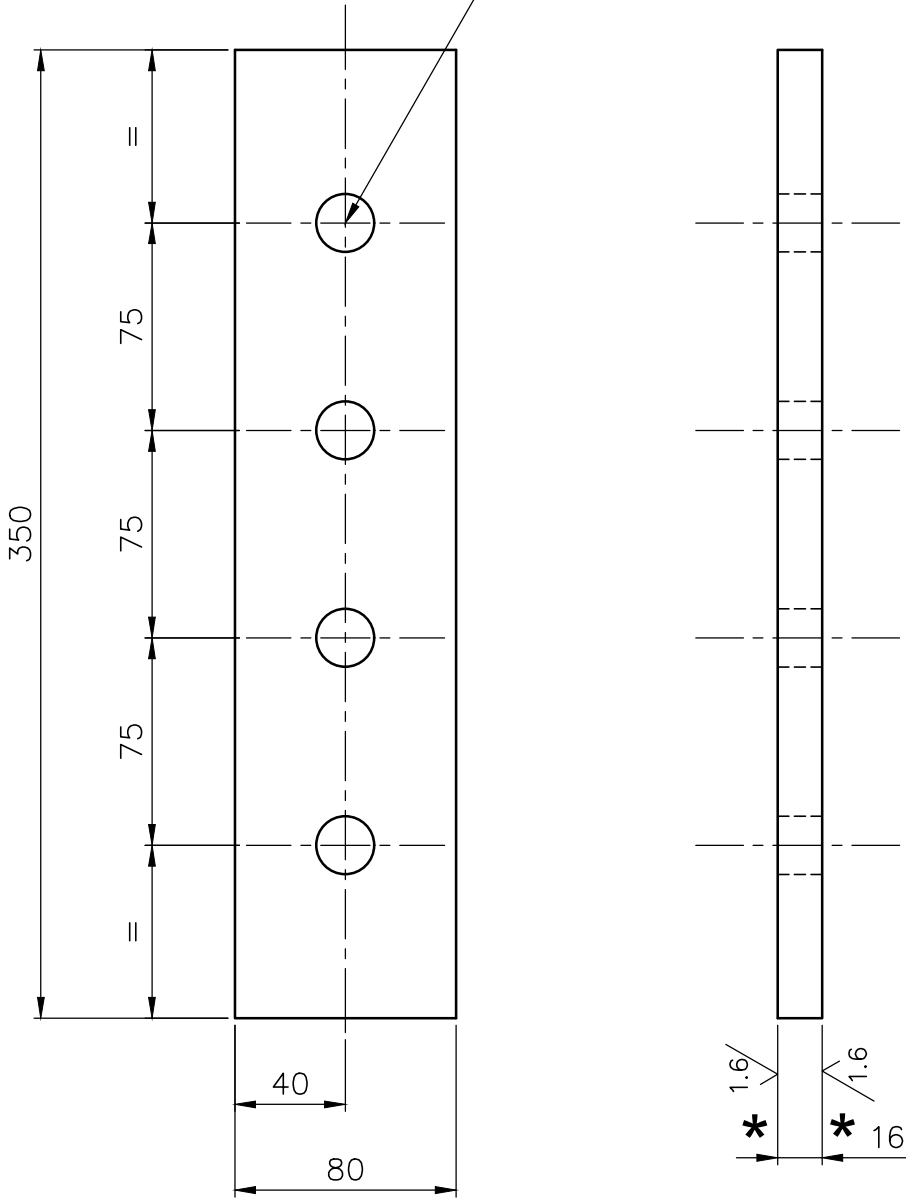
ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15845

DRAWING NO:

4NOS REAMED HOLE Ø21

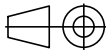


NOTE: –

* SKIN MILL TO 0.1 – 0.2mm ENSURE ADEQUATE CONTACT AREA.
SHARP EDGES TO BE REMOVED.

REV	DATE	ALTERED
		CHECKED
ZONE		APPROVED

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—	PL 16t x 80 x 350 IS 1730	—	IS 2062		3.52		
			E 250 A		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N. maduraiveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S. Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:2.5 —	WEIGHT (Kg) 3.52	REF TO ASSY DWG NO 1—M—02A46—02881		ITEM 05
CODE 2597	Ø/√/≠ IS: 2102				REF TO OLD DWG NO —		
TITLE BRIDGE FIXING TOP PLATE 16t x 80 x 350 (END CARRIAGE ASSEMBLY 20/10T x 5.5M)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15845		REV 00

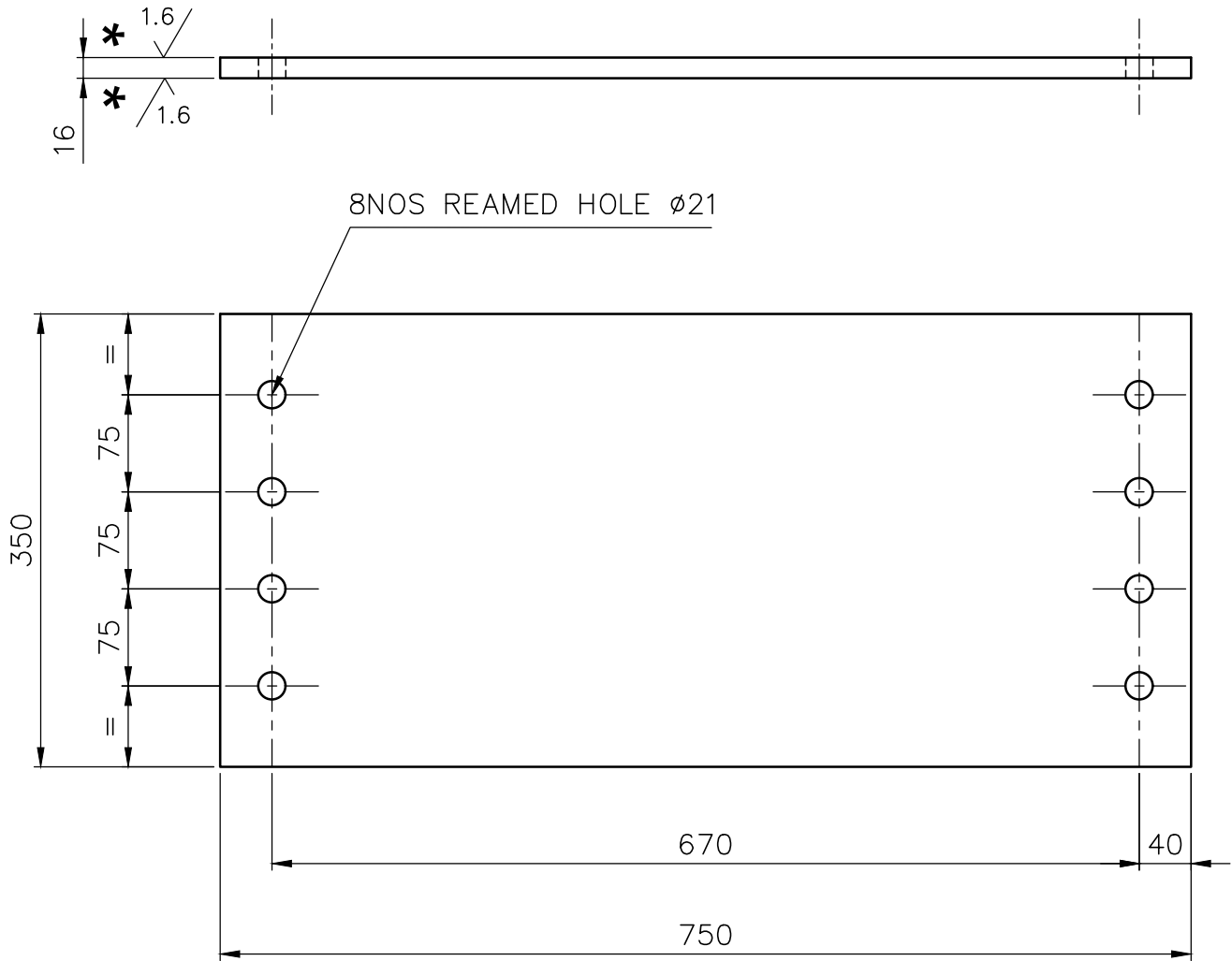
A3–SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15846

DRAWING NO:



NOTE: –
* SKIN MILL TO 0.1 – 0.2mm ENSURE ADEQUATE CONTACT AREA.
SHARP EDGES TO BE REMOVED.

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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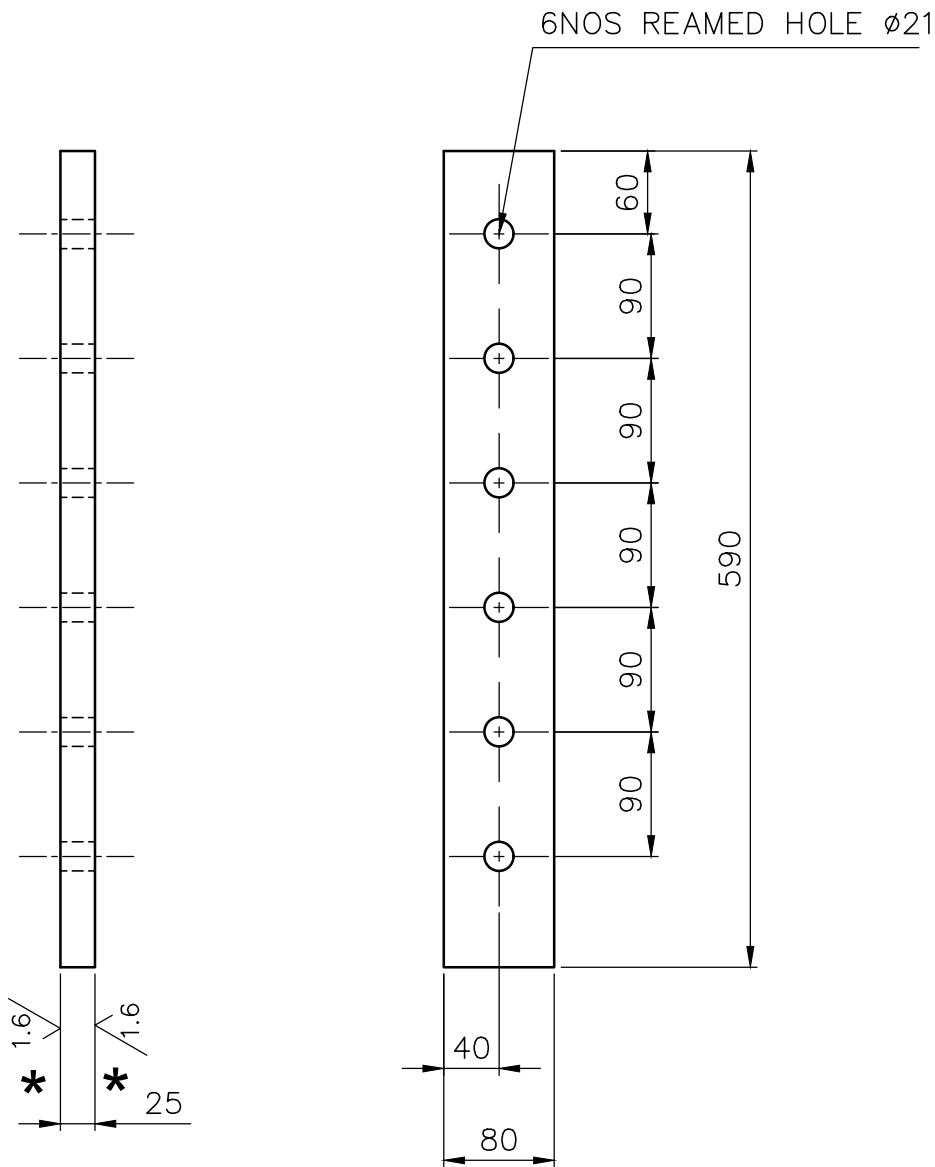
—	PL 16t x 350 x 750 IS 1730	—	IS 2062		32.97	
			E 250 A		1	
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT	
			MATL SPEC		QTY	
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195						
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N. maduraiveeran</i>	DATE 15.11.17	
		CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17	
		APPD	S.MOAHN	<i>S. Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:5 —	WEIGHT (Kg) 32.97	REF TO ASSY DWG NO 1—M—02A46—02881	ITEM 06
CODE 2597	Ø / M / # IS: 2102		REF TO OLD DWG NO —			
TITLE BRIDGE FIXING TOP PLATE 16t x 350 x 750 (END CARRIAGE ASSEMBLY 20/10T x 5.5M)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15846	REV 00

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15847

DRAWING NO:

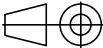


NOTE: –

* SKIN MILL TO 0.1 – 0.2mm ENSURE ADEQUATE CONTACT AREA.
SHARP EDGES TO BE REMOVED.

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PL 25t x 80 x 690 IS 1730	—	IS 2062		10.83		
			E 250 A		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N. maduraiveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S. Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM $\phi / M / \#$ IS: 2102		SCALE 1:5 —	WEIGHT (Kg) 10.83	REF TO ASSY DWG NO 1—M—02A46—02881		ITEM 07
CODE 2597					REF TO OLD DWG NO —		
TITLE BRIDGE FIXING SIDE PLATE 25t x 80 x 590 (END CARRIAGE ASSEMBLY 20/10T x 5.5M)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15847		REV 00

A3–SIZE

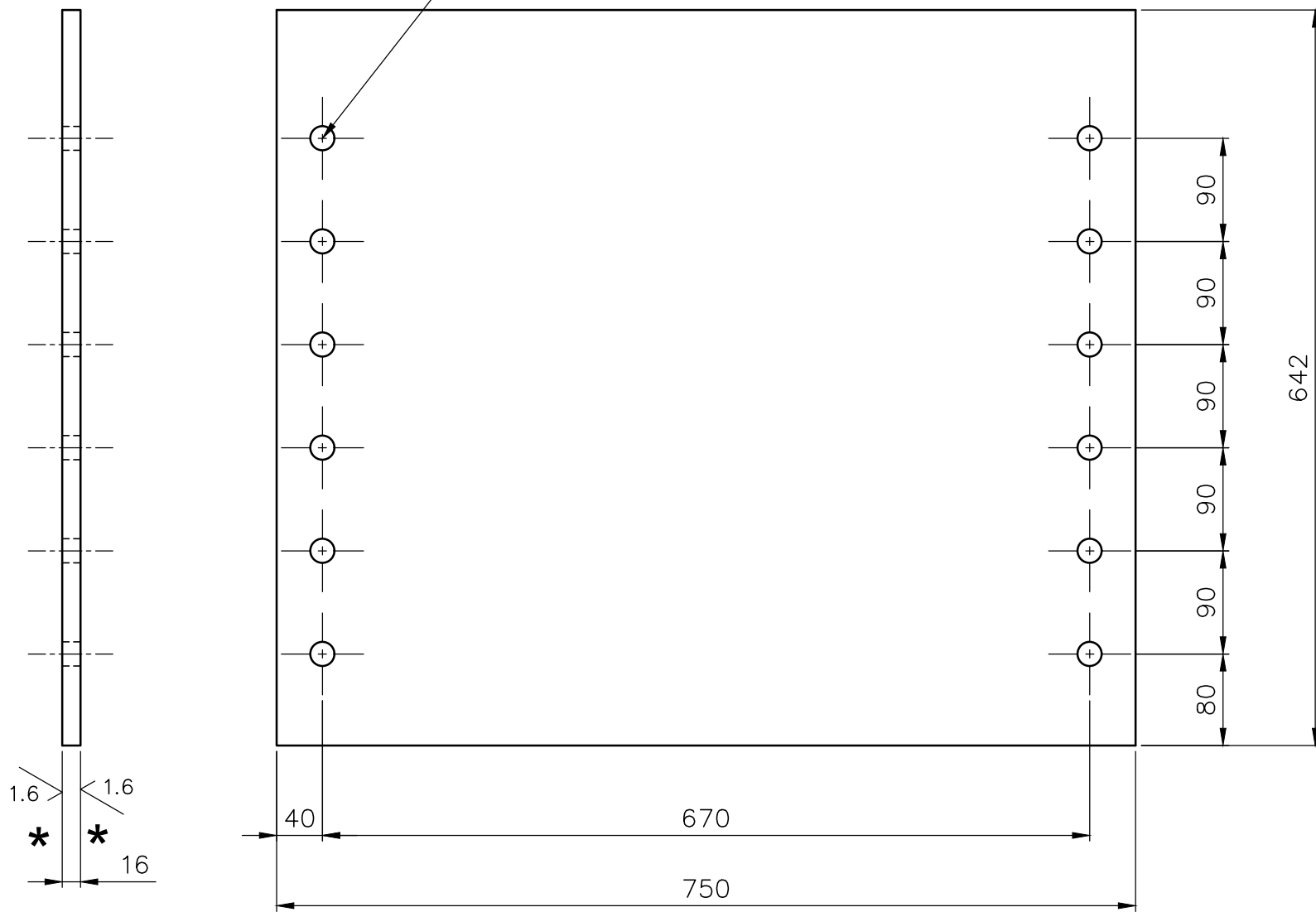
ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15848

DRAWING NO:

12NOS REAMED HOLE ϕ 21



NOTE: -

* SKIN MILL TO 0.1 - 0.2mm ENSURE ADEQUATE CONTACT AREA.
SHARP EDGES TO BE REMOVED.

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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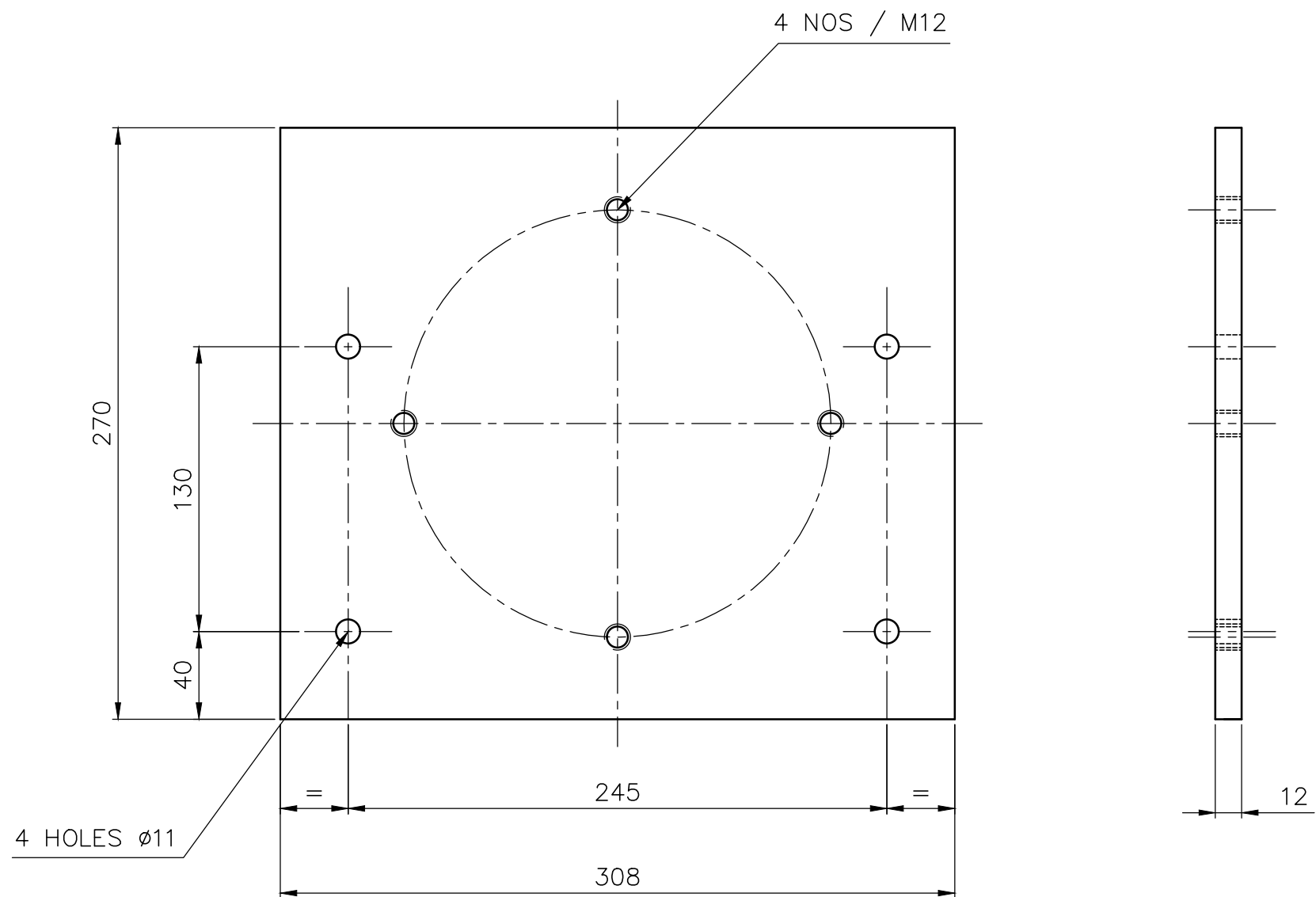
-	PL 16t x 642 x 750 IS 1730	-	IS 2062	60.48
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195				
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME N.MADURAVEERAN
			CHD	G.GOVINDARAJ
			APPD	S.MOAHN
DEPT M&S	GRADE OF UNTOL. DIM ϕ /M/F IS: 2102	SCALE 1:5 -	WEIGHT (Kg) 60.48	REF TO ASSY DWG NO 1-M-02A46-02881
CODE 2597				REF TO OLD DWG NO -
TITLE BRIDGE FIXING SIDE PLATE 16t x 642 x 750 (END CARRIAGE ASSEMBLY 20/10T x 5.5M)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15848
				REV 00

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

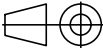
3-M-02A46-15849

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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-		PL 12t x 270 x 308 IS 1730		-		IS 2062 E 250 A		7.83 1	
ITEM NO		DESCRIPTION		DRAWING NO		MATL CODE MATL SPEC		UNIT WT QTY	
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195									
		Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014			DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
					CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
					APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:2.5 -	WEIGHT (Kg) 7.83	REF TO ASSY DWG NO 1-M-02A46-02881			ITEM 09	
CODE 2597	$\phi/\overset{\vee}{M}/\text{F}$ IS: 2102				REF TO OLD DWG NO -				
TITLE PLATE 12t x 270 x 308 (END CARRIAGE ASSEMBLY 20/10T x 5.5M)					CARD CODE U 01	DRAWING NO : 3-M-02A46-15849			REV 00

A3-SIZE

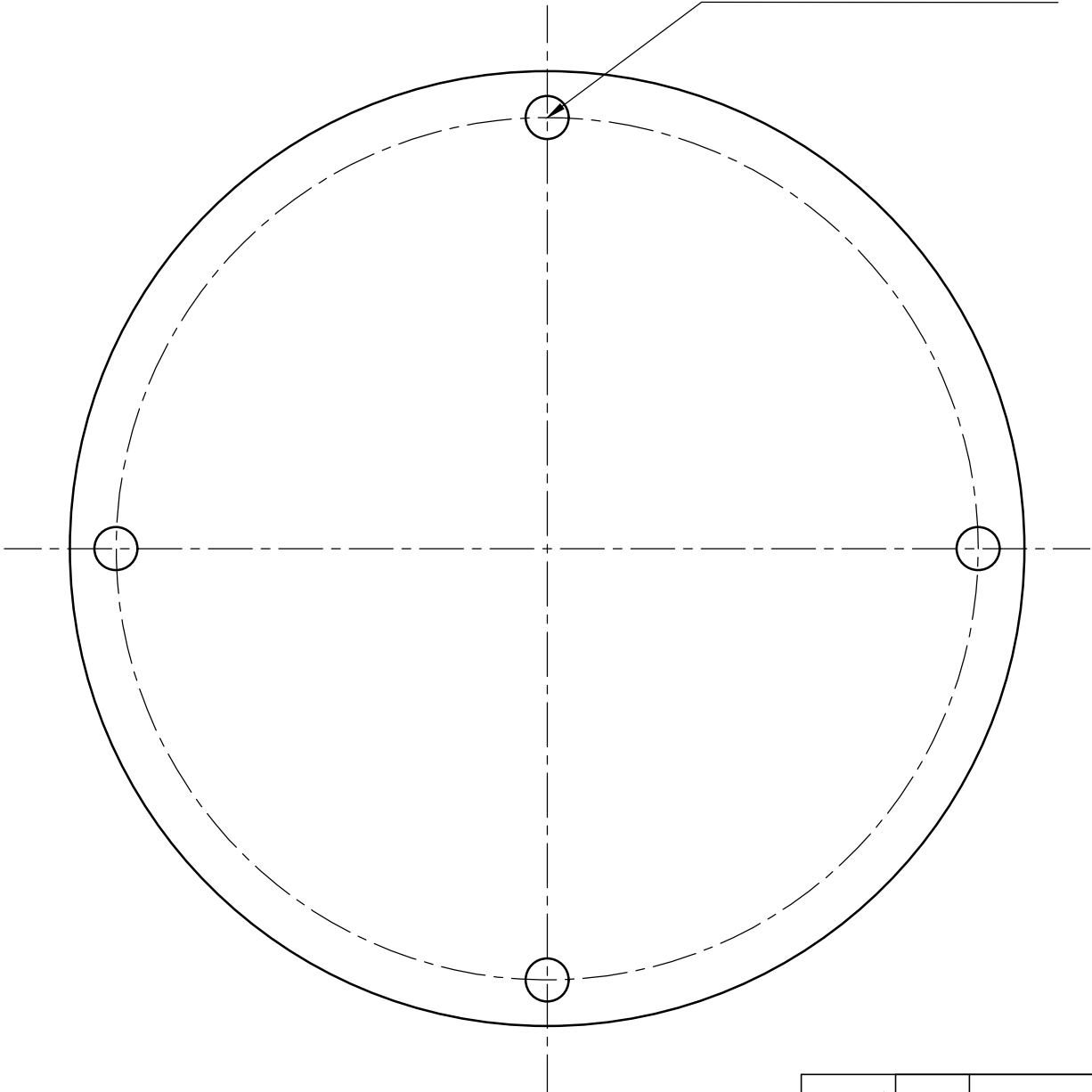
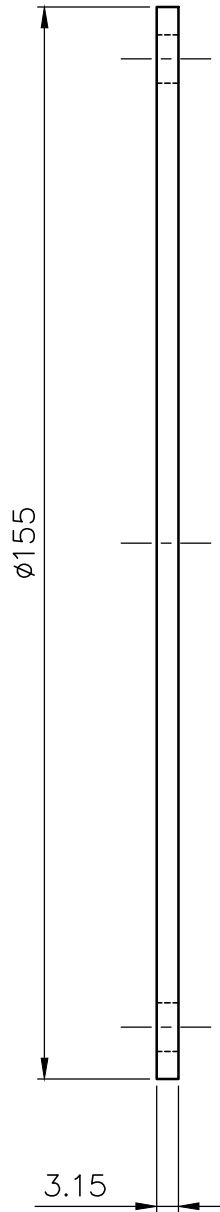
ALL DIMENSIONS ARE IN MILLIMETRES

3.2

3-M-02A46-15850

DRAWING NO:

4HOLES Ø7 ON PCD 140

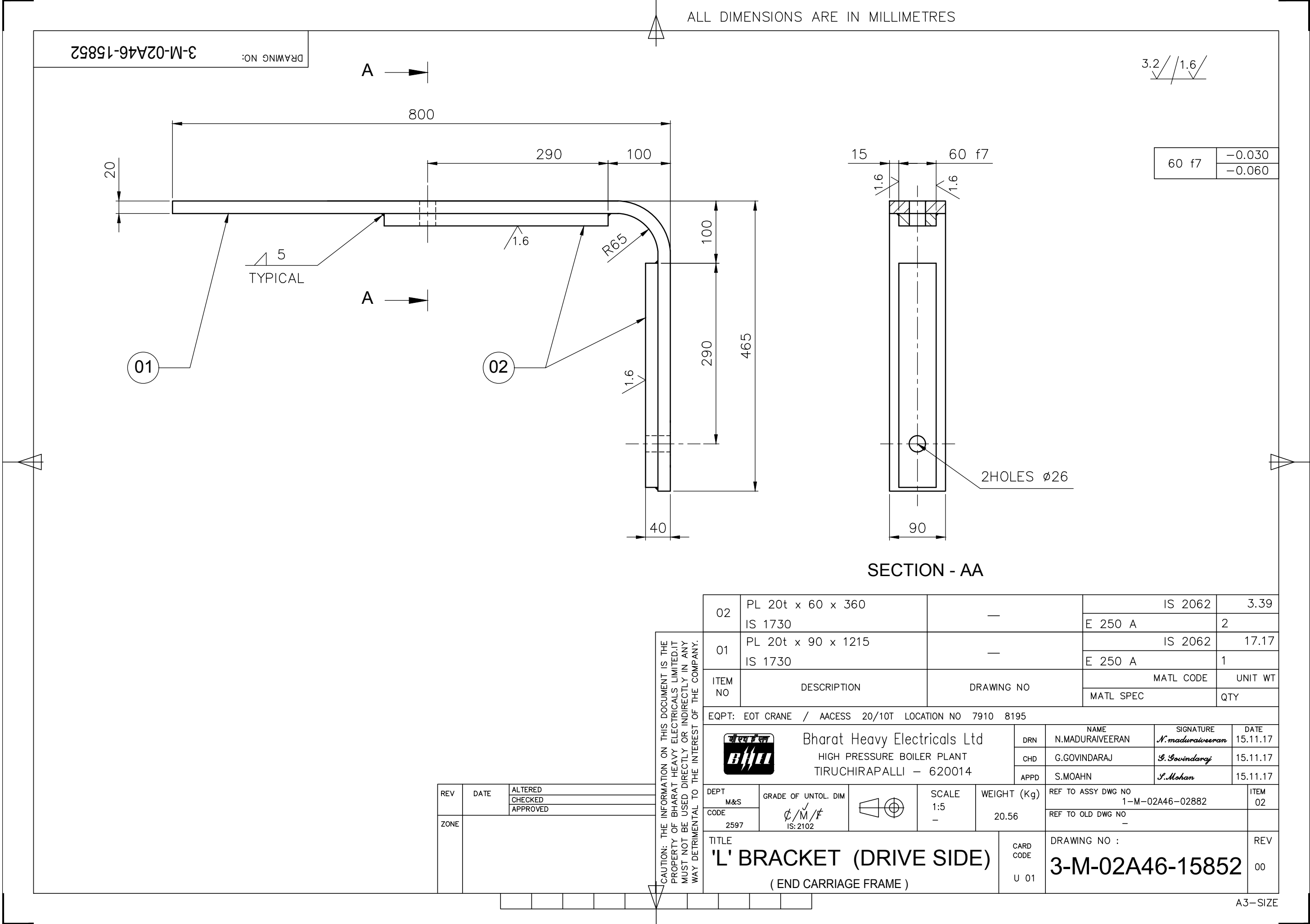


REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	St.3.15 x Ø155	—	IS 1079		0.47		
			St.34		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195							
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N. maduraiveeran</i>	DATE 15.11.17		
		CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17		
		APPD	S.MOAHN	<i>S. Mohan</i>	15.11.17		
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:1	WEIGHT (Kg) 0.47	REF TO ASSY DWG NO 1—M—02A46—02881	ITEM 10	
CODE 2597	Ø/□/∠ IS: 2102		—		REF TO OLD DWG NO —		
TITLE COVER PLATE Ø155 x 3.15t (END CARRIAGE ASSEMBLY 20/10T x 5.5M)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15850		REV 00

A3—SIZE

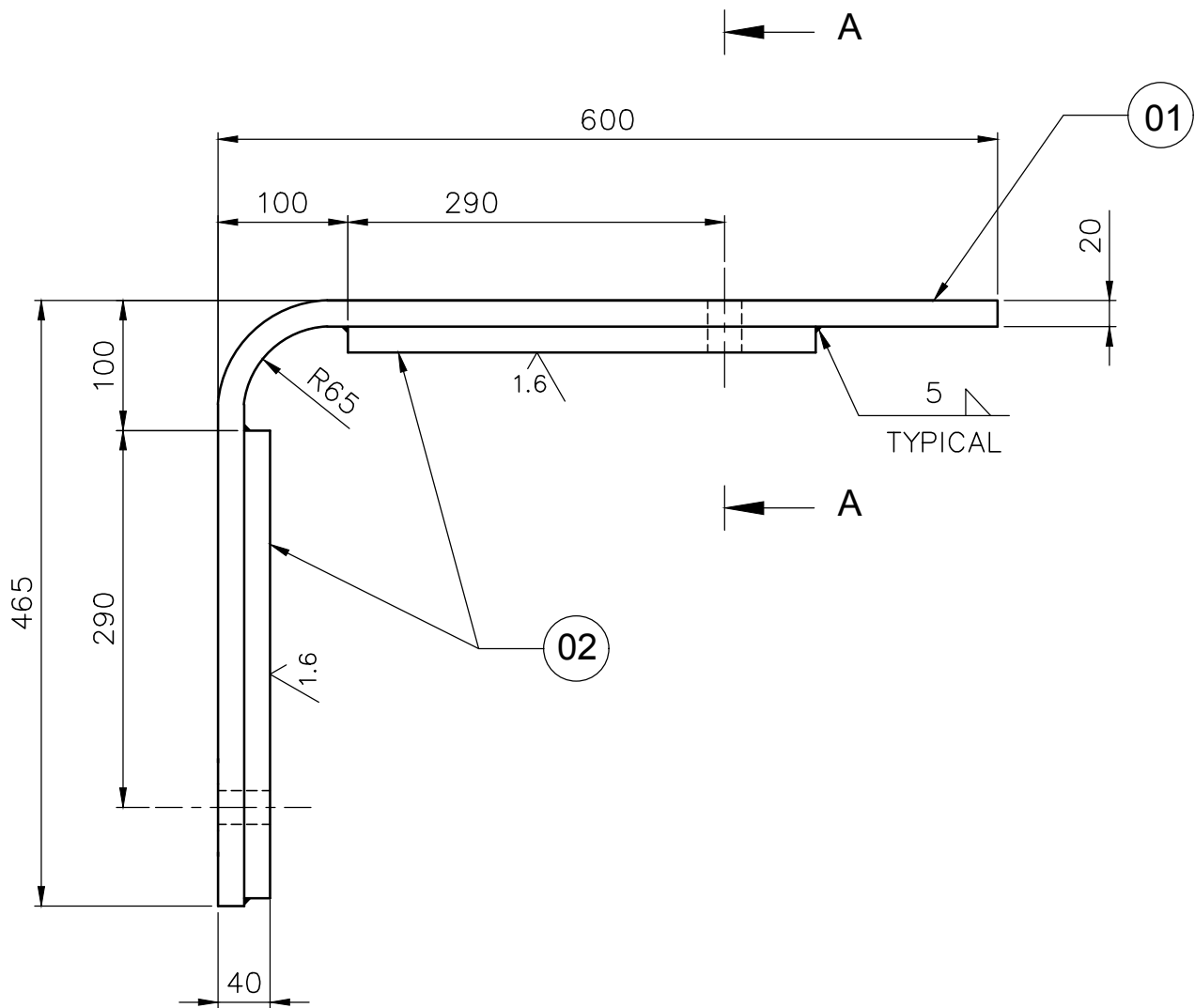
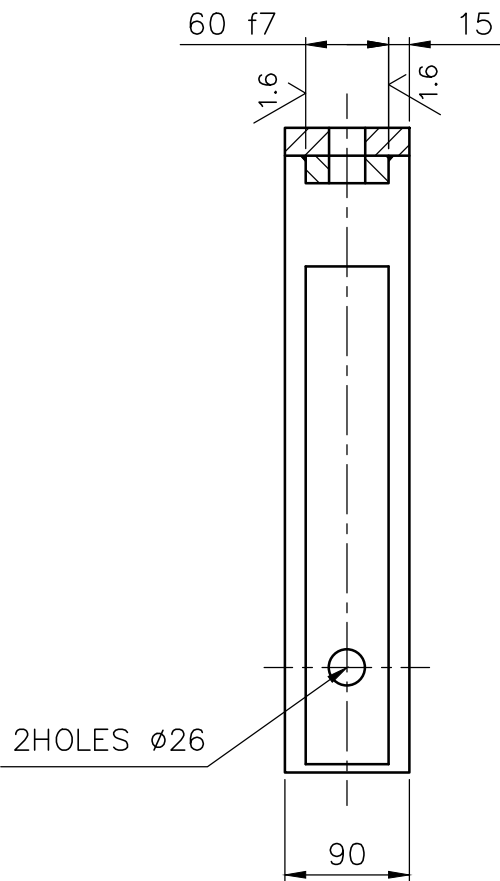


3-M-02A46-15853

DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6



60 f7	-0.030
	-0.060

SECTION - AA

02	PL 20t x 60 x 360 IS 1730	—	IS 2062	3.39
			E 250 A	2
01	PL 20t x 90 x 1015 IS 1730	—	IS 2062	14.34
			E 250 A	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME	SIGNATURE	DATE
	N.MADURAVEERAN	<i>N. maduraiveeran</i>	15.11.17
	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17
CHD	S.MOAHN	<i>S. Mohan</i>	15.11.17

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

DEPT	GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO	ITEM
M&S	2597	1:5	17.73	1-M-02A46-02882	03
CODE	IS: 2102			REF TO OLD DWG NO	
TITLE				DRAWING NO :	REV
'L' BRACKET (IDLER SIDE)				3-M-02A46-15853	00
(END CARRIAGE FRAME)					

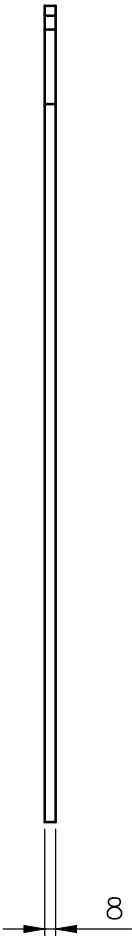
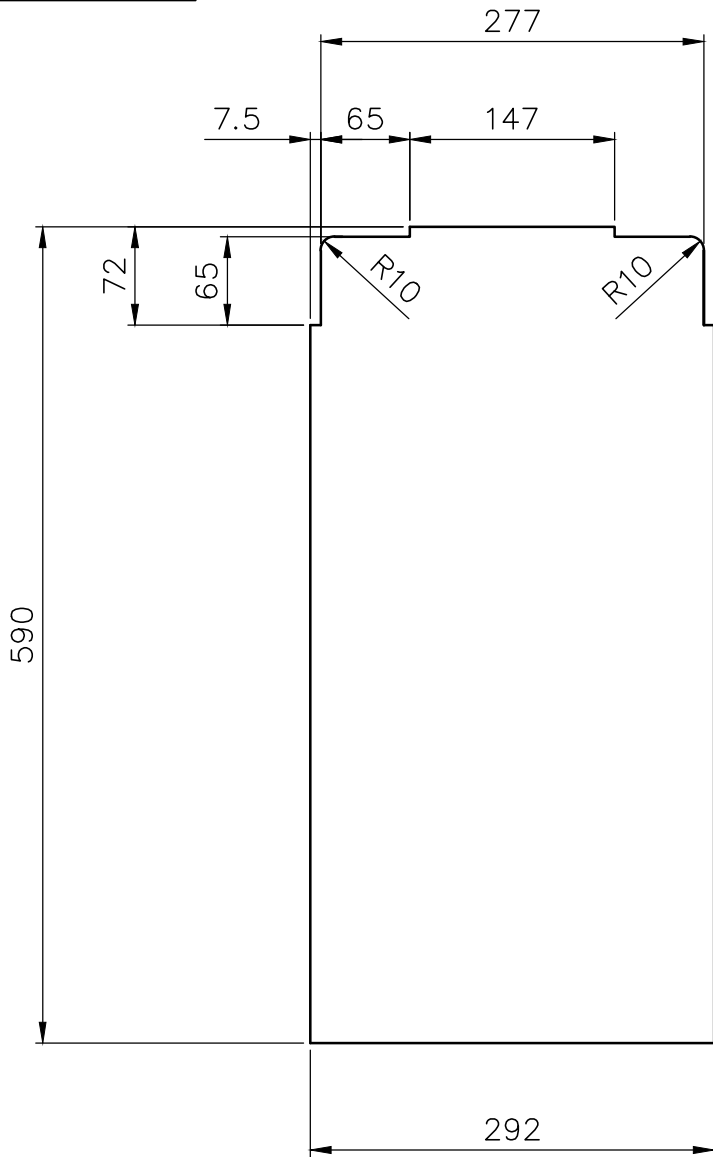
A3-SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2

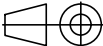
3-M-02A46-15854

DRAWING NO:



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		CHECKED
		APPROVED
ZONE		

—	PL 8t x 292 x 590 IS 1730	—	IS 2062		10.82		
			E 250 A		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	<i>N.maduraveeran</i>	15.11.17	
			CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM ϕ/√/≠ IS: 2102		SCALE 1:5 —	WEIGHT (Kg) 10.82	REF TO ASSY DWG NO 1—M—02A46—02882		ITEM 04
CODE 2597					REF TO OLD DWG NO —		
TITLE DIAPHRAM PLATE (END CARRIAGE FRAME)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15854		REV 00

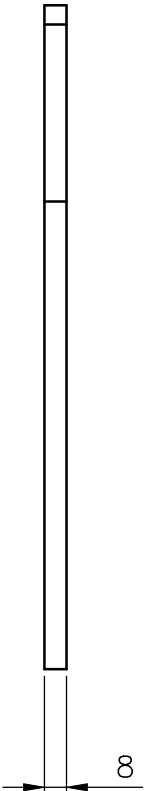
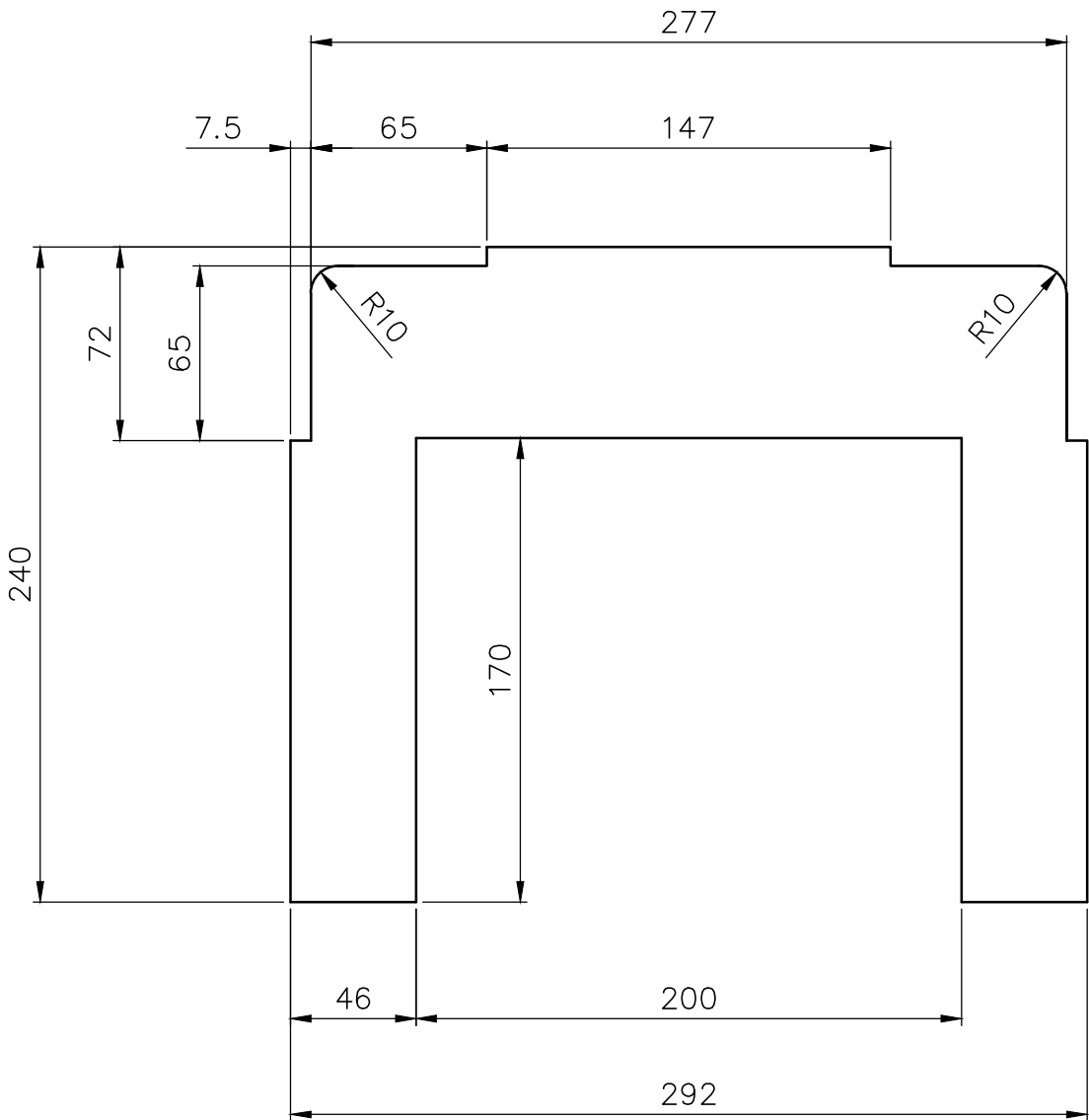
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

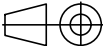
3-M-02A46-15855

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PL 8t x 240 x 292 IS 1730	—	IS 2062		2.14		
ITEM NO	DESCRIPTION	DRAWING NO	E 250 A		1		
			MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:2.5 —	WEIGHT (Kg) 2.14	REF TO ASSY DWG NO 1—M—02A46—02882		ITEM 05
CODE 2597	Ø/√/≠ IS: 2102		REF TO OLD DWG NO —				
TITLE PLATE 8t x 240 x 292 (END CARRIAGE FRAME)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15855			REV 00

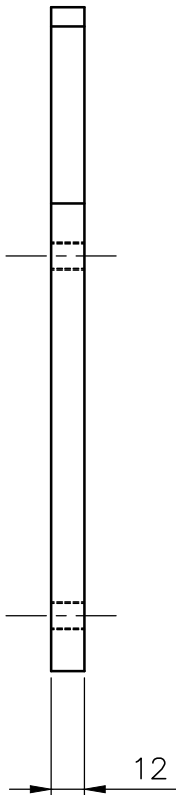
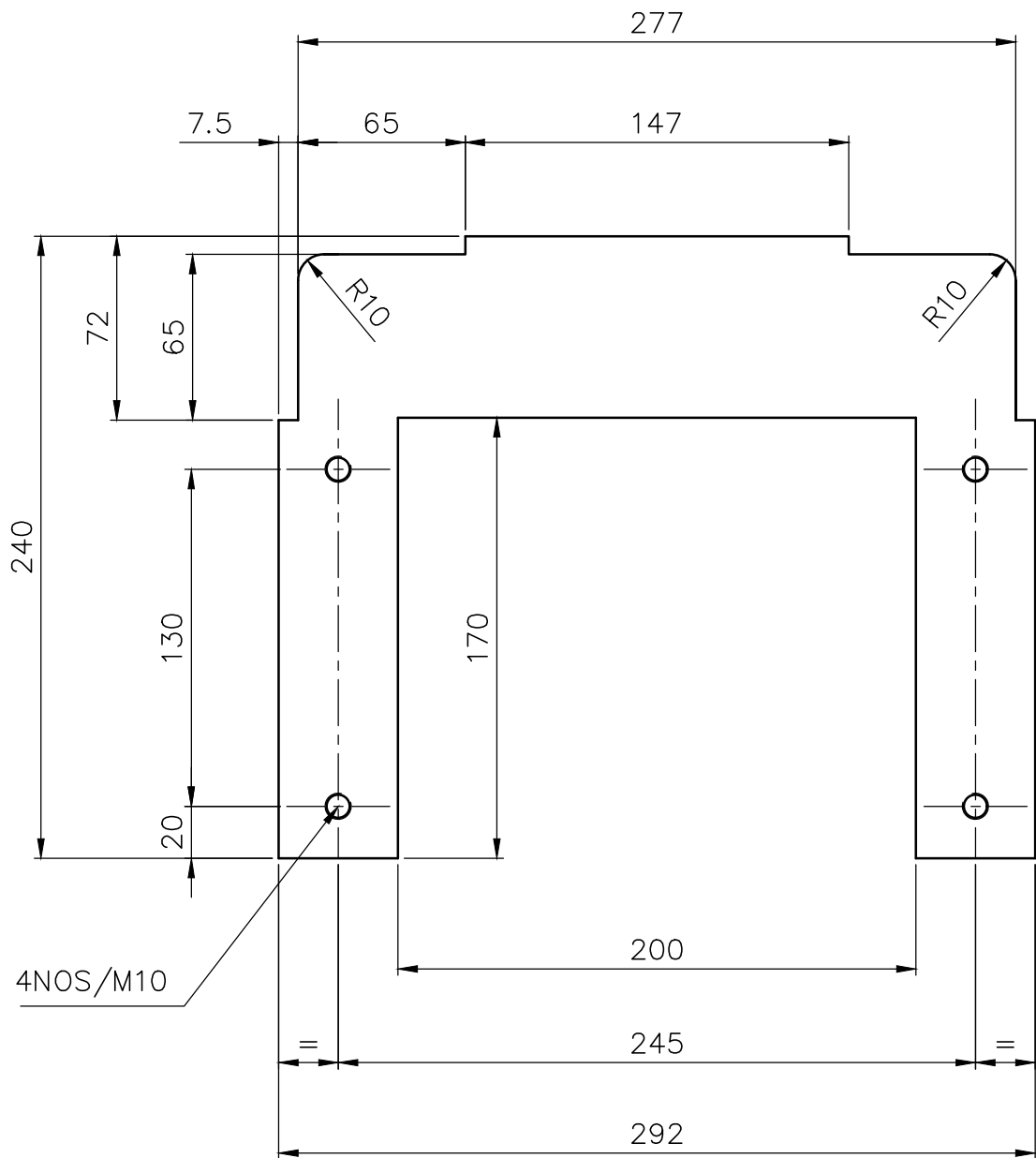
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2

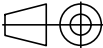
3-M-02A46-15856

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
ZONE		APPROVED

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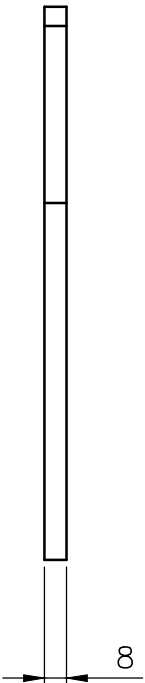
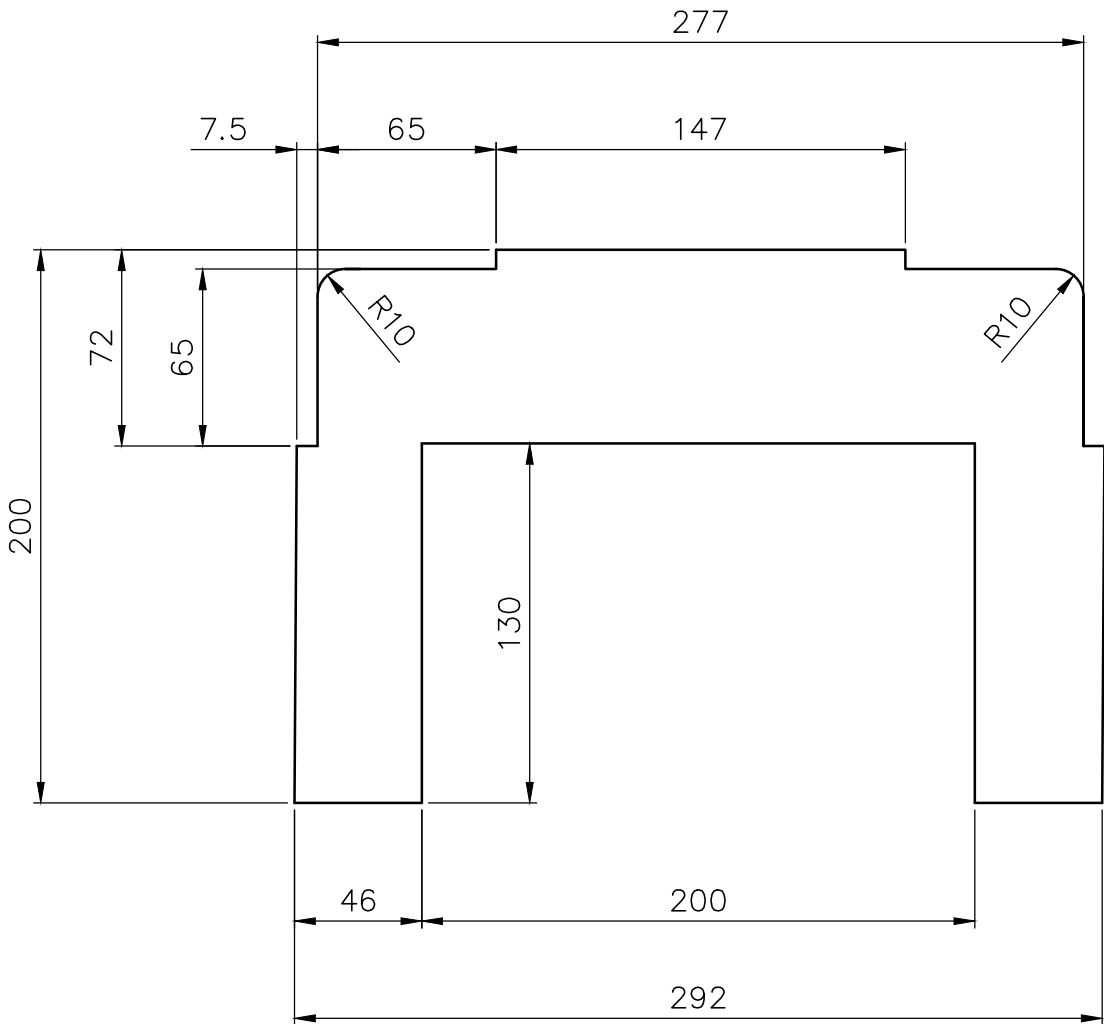
—	PL 12t x 240 x 292 IS 1730	—	IS 2062		3.21		
			E 250 A		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM $\phi/\overset{\vee}{M}/\text{\textasciitimes}$ IS: 2102		SCALE 1:2.5 —	WEIGHT (Kg) 3.21	REF TO ASSY DWG NO 1—M—02A46—02882		ITEM 06
CODE 2597					REF TO OLD DWG NO —		
TITLE PLATE 12t x 240 x 292 (END CARRIAGE FRAME)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15856		REV 00	

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

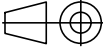
3-M-02A46-15857

DRAWING NO:



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REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

—	PL 8t x 200 x 292 IS 1730	—	IS 2062		1.90		
			E 250 A		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:2.5 —	WEIGHT (Kg) 1.90	REF TO ASSY DWG NO 1—M—02A46—02882		ITEM 07
CODE 2597	Ø/√/≠ IS: 2102				REF TO OLD DWG NO —		
TITLE PLATE 8t x 200 x 292 (END CARRIAGE FRAME)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15857		REV 00	

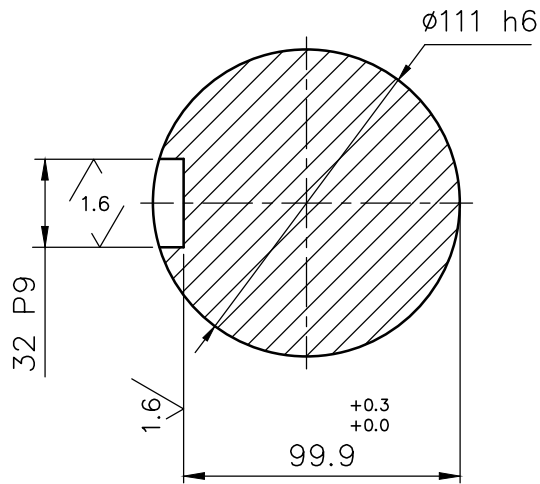
A3-SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

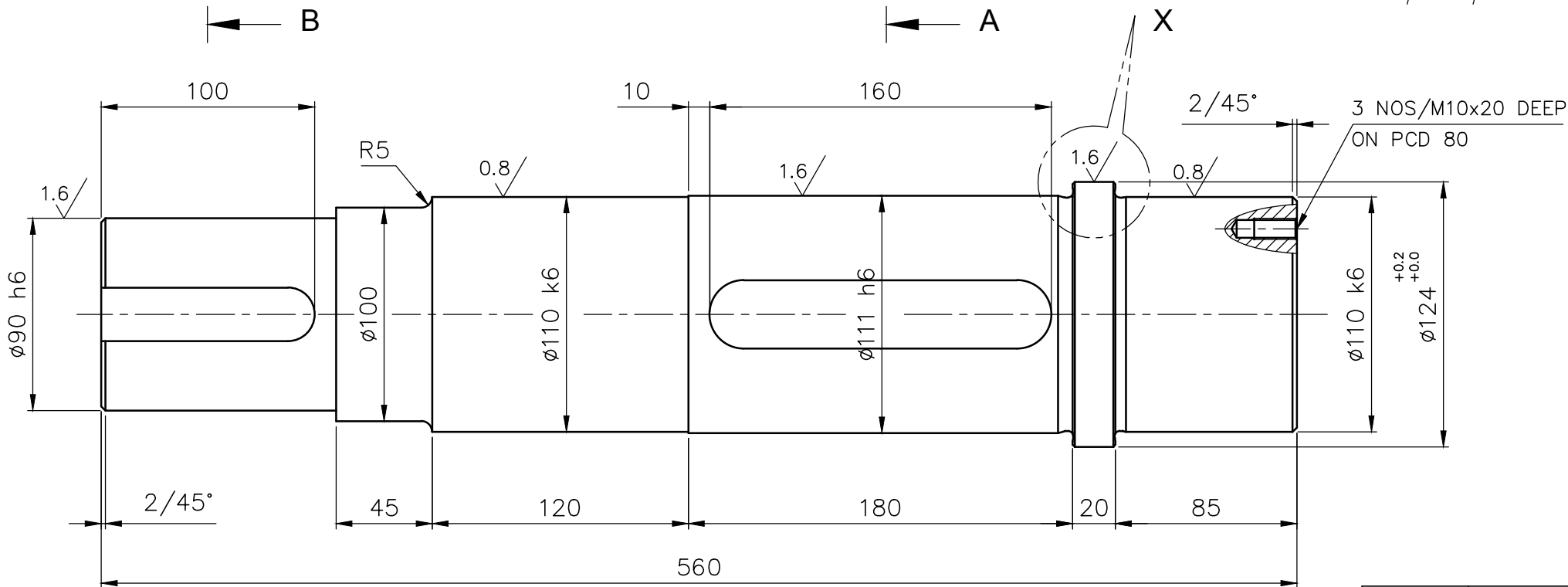
3-M-02A46-15858

DRAWING NO:

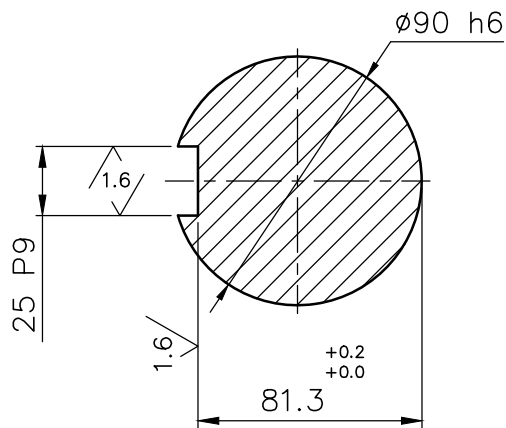
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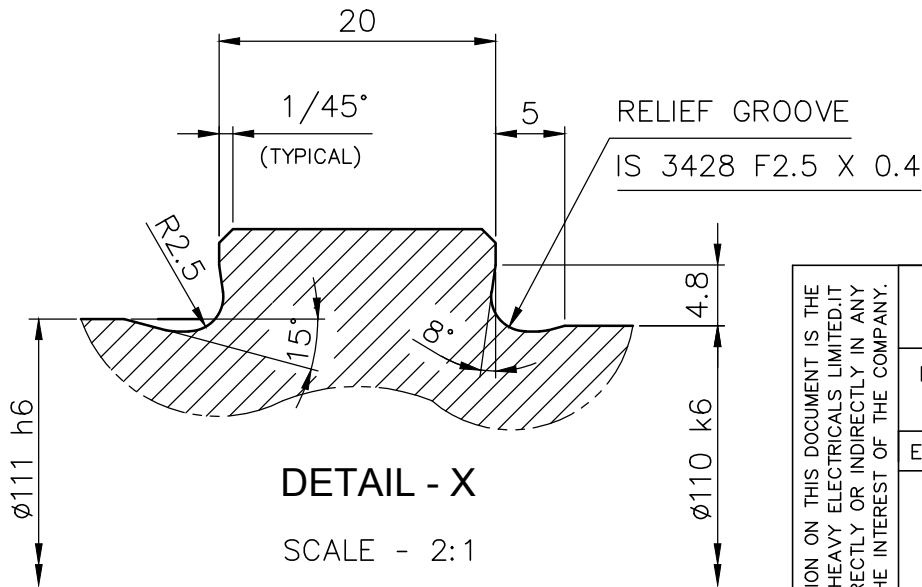
SECTION - AA



Ø111 h6	-0.000
Ø111 h6	-0.022
Ø90 h6	-0.000
Ø90 h6	-0.022
Ø110 k6	+0.025
Ø110 k6	+0.003
32 P9	-0.026
32 P9	-0.088
25 P9	-0.022
25 P9	-0.074



SECTION - BB



DETAIL - X

SCALE - 2:1

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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ITEM NO	DESCRIPTION	DRAWING NO	ASME	42.56
			SA 105	1
			MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195				
Bharat Heavy Electricals Ltd		DRN	NAME	SIGNATURE
HIGH PRESSURE BOILER PLANT		CHD	N.MADURAVEERAN	N.maduraveeran
TIRUCHIRAPALLI - 620014		APPD	G.GOVINDARAJ	G.Govindaraj
			S.MOAHN	S.Mohan
DEPT	GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO
M&S	φ/Μ/£	1:2.5	42.56	2-M-02A46-05756
CODE	IS: 2102	2:1		REF TO OLD DWG NO
2597				-
TITLE			CARD CODE	DRAWING NO :
DRIVE SHAFT Ø124 x 560L			U 01	3-M-02A46-15858
(DRIVE WHEEL ASSEMBLY)				REV
				00

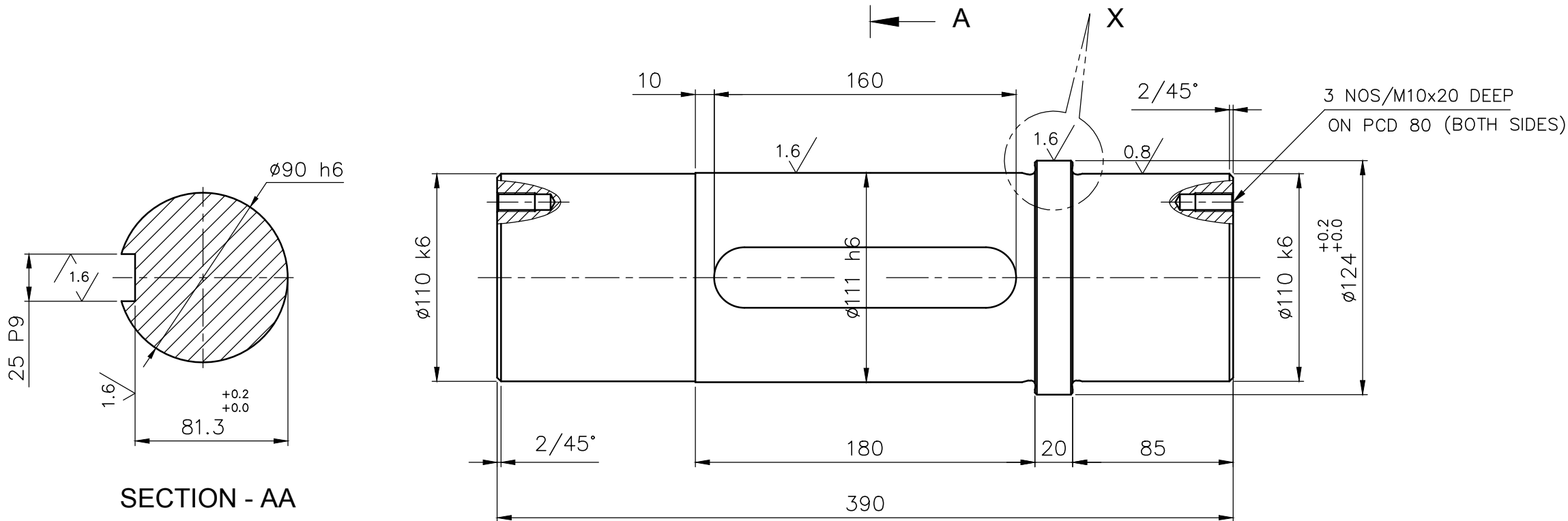
A3-SIZE

3-M-02A46-15859

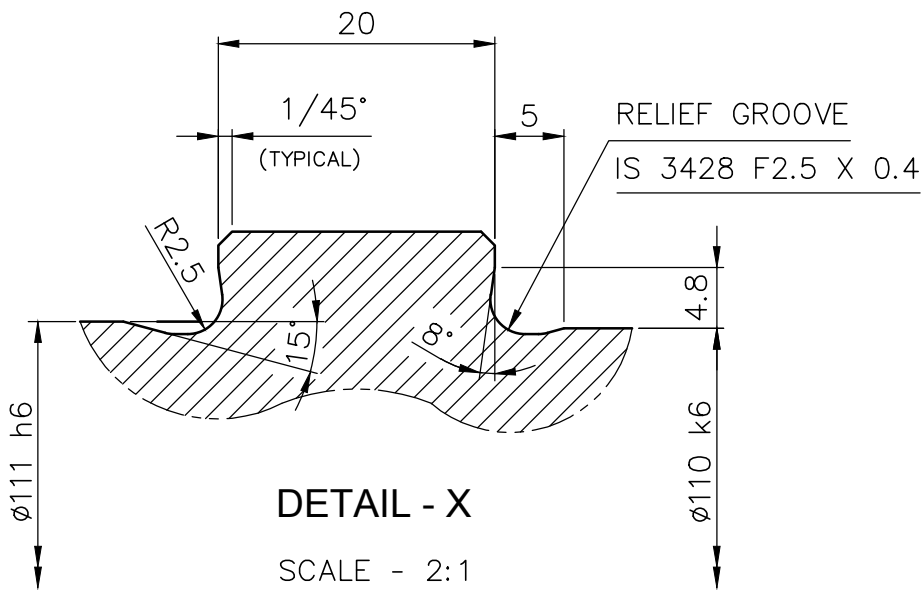
DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6 / 0.8

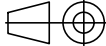


Ø111 h6	-0.000
	-0.022
Ø110 k6	+0.025
	+0.003
25 P9	-0.022
	-0.074



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	ROD Ø125 x 390L	—	ASME		29.64	
			SA 105		1	
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT	
			MATL SPEC		QTY	
EQPT: EOT CRANE / AACCESS 20/10T LOCATION NO 7910 8195						
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
		CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
		APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM Ø/M/£ IS: 2102		SCALE 1:2.5 2:1	WEIGHT (Kg) 29.64	REF TO ASSY DWG NO 2-M-02A46-05757	ITEM 02
CODE 2597					REF TO OLD DWG NO —	
TITLE IDLER SHAFT Ø124 x 390L (IDLER WHEEL ASSEMBLY)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15859	REV 00

A3-SIZE

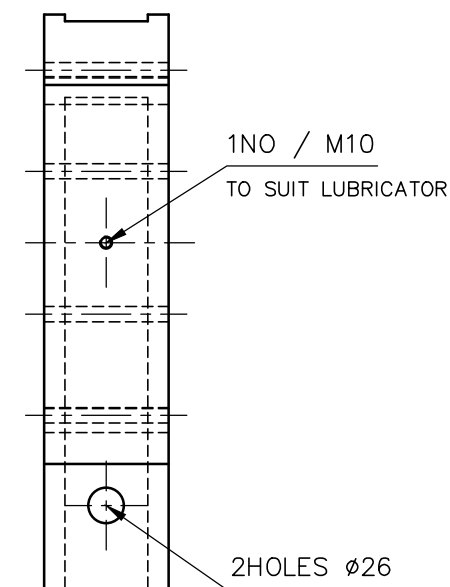
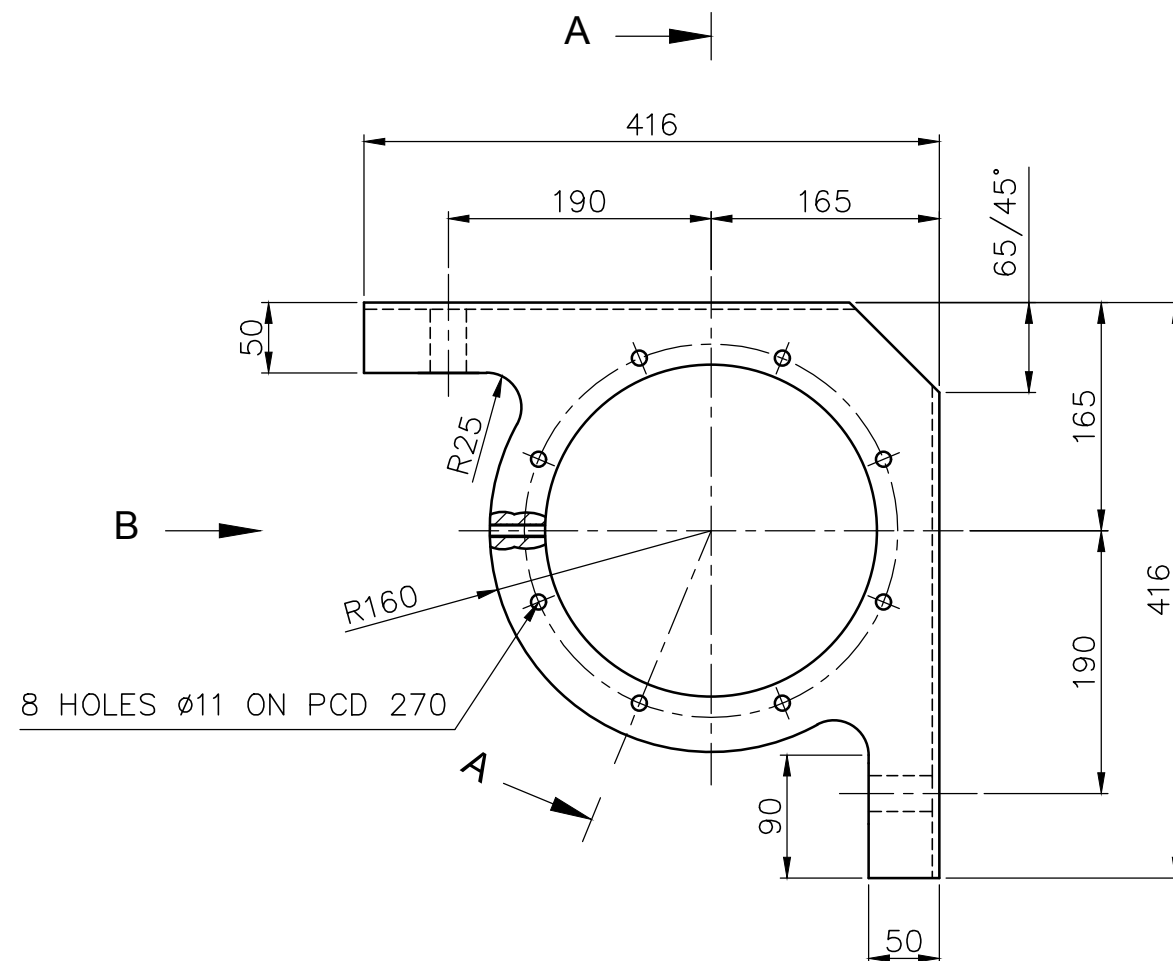
3-M-02A46-15860

DRAWING NO:

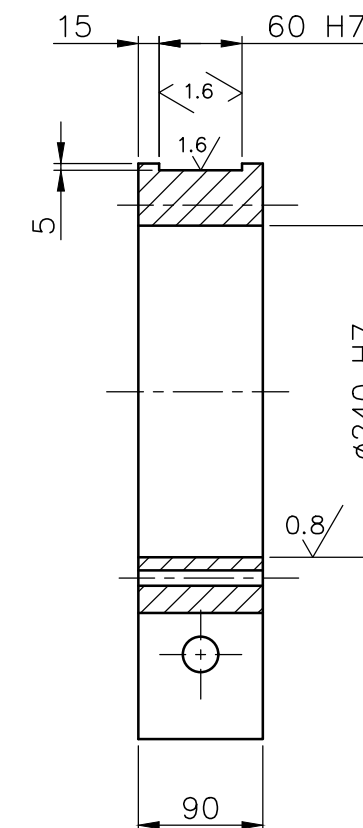
ALL DIMENSIONS ARE IN MILLIMETRES

ø240 H7	+0.046
	0.000
60 H7	+0.030
	0.000

3.2 / 1.6 / 0.8



VIEW -B



SECTION - AA

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PL 90 x 416 x 416	—		ASME		42.16	
				SA 299		1	
ITEM NO	DESCRIPTION	DRAWING NO		MATL CODE		UNIT WT	
				MATL SPEC		QTY	
EQPT: EOT CRANE / AACCESS 20/10T LOCATION NO 7910 8195							
		Bharat Heavy Electricals Ltd		DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N. maduraiveeran</i>	DATE 15.11.17
		HIGH PRESSURE BOILER PLANT		CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>	15.11.17
		TIRUCHIRAPALLI — 620014		APPD	S.MOAHN	<i>S. Mohan</i>	15.11.17
DEPT M&S	GRADE OF UNTOL. DIM		SCALE 1:5	WEIGHT (Kg) 42.16	REF TO ASSY DWG NO 2-M-02A46-05756 , 2-M-02A46-05757		ITEM 03
CODE 2597	ϕ /M/F IS: 2102		—		REF TO OLD DWG NO —		
TITLE BEARING HOUSING (DRIVE AND IDLER WHEEL ASSEMBLY)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15860		REV 00

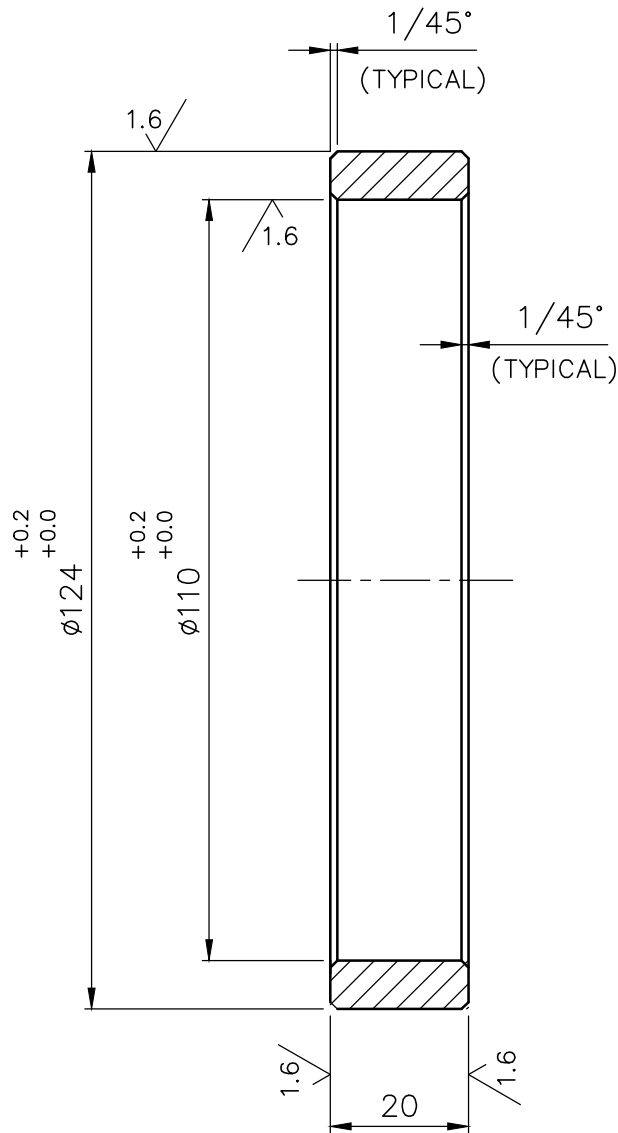
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

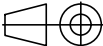
3-M-02A46-15861

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PIPE Ø127 x 12.5t x 20L	—	ASME		0.40		
			SA 106 Gr B		1		
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT		
			MATL SPEC		QTY		
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195							
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
			CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
			APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM Ø/√M/√ IS: 2102		SCALE 1:1 —	WEIGHT (Kg) 0.40	REF TO ASSY DWG NO 2-M-02A46-05756 , 2-M-02A46-05757		ITEM 04
CODE 2597					REF TO OLD DWG NO —		
TITLE SPACER Ø124 x Ø110 x 20 (DRIVE AND IDLER WHEEL ASSEMBLY)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15861		REV 00

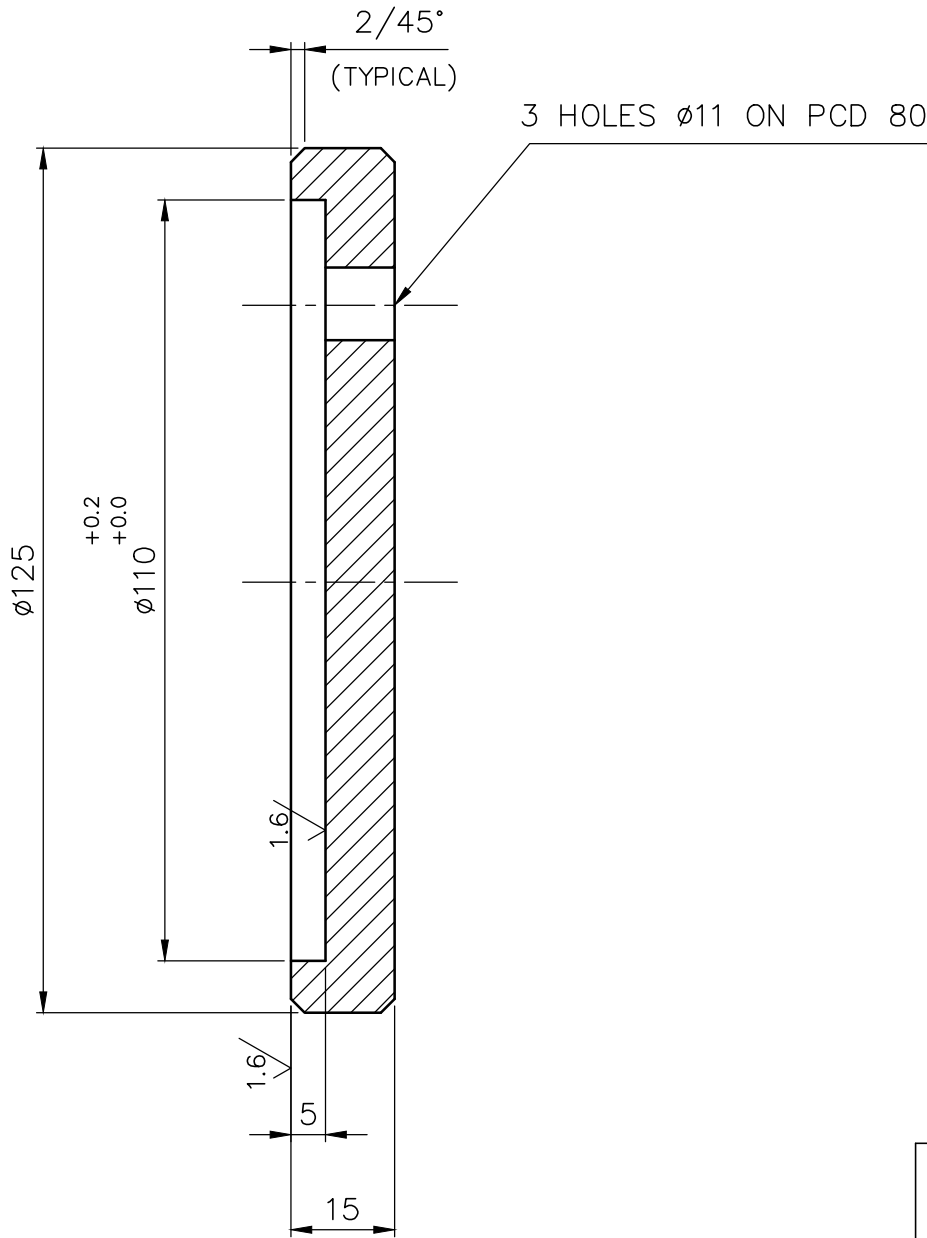
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

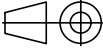
3-M-02A46-15862

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PL 16t x Ø125 IS 1730	—	IS 2062		1.10	
			E 250 A		1	
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE		UNIT WT	
			MATL SPEC		QTY	
EQPT: EOT CRANE / AACCESS 20/10T LOCATION NO 7910 8195						
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 15.11.17	
		CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	15.11.17	
		APPD	S.MOAHN	<i>S.Mohan</i>	15.11.17	
DEPT M&S	GRADE OF UNTOL. DIM ϕ / M / F IS: 2102		SCALE 1:1 —	WEIGHT (Kg) 1.10	REF TO ASSY DWG NO 2-M-02A46-05756 , 2-M-02A46-05757	ITEM 05
CODE 2597					REF TO OLD DWG NO —	
TITLE LOCK PLATE Ø125 x 15t (DRIVE AND IDLER WHEEL ASSEMBLY)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15862	REV 00

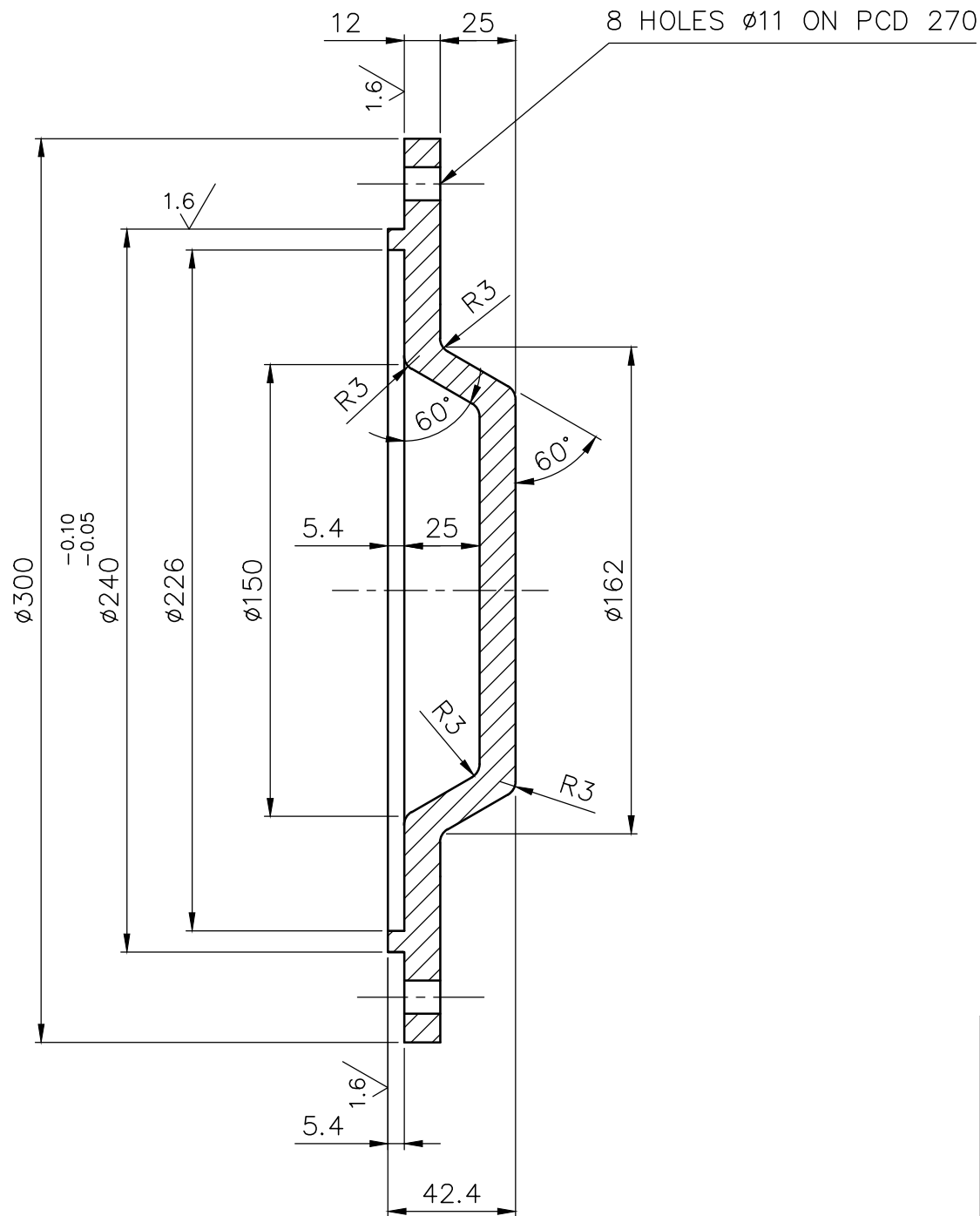
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15863

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—	PL 50t x Ø300 IS 1730	—	IS 2062	7.92
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195				
	Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014		DRN	NAME N.MADURAVEERAN
			CHD	G.GOVINDARAJ
			APPD	S.MOAHN
DEPT M&S	GRADE OF UNTOL. DIM φ/∅/∅	SCALE 1:2	WEIGHT (Kg)	REF TO ASSY DWG NO 2-M-02A46-05756 , 2-M-02A46-05757
CODE 2597	IS: 2102	—	7.92	REF TO OLD DWG NO —
TITLE END COVER Ø300 x 42.4t (DRIVE AND IDLER WHEEL ASSEMBLY)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15863
				ITEM 06
				REV 00

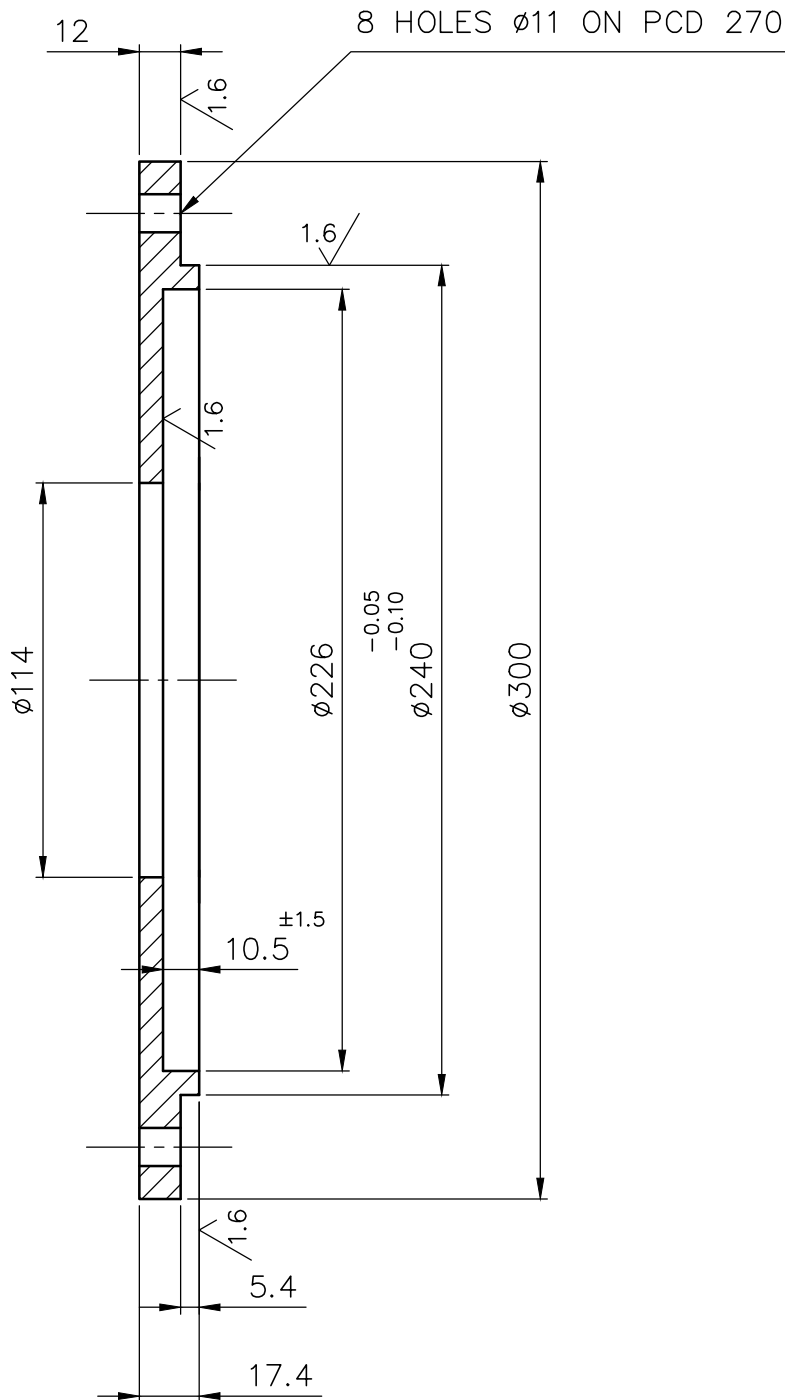
A3—SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6

3-M-02A46-15865

DRAWING NO:



REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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ITEM NO	PL 20t x 300 IS 1730	DRAWING NO	IS 2062	4.32
			E 250 A	1
			MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195				
Bharat Heavy Electricals Ltd		DRN	NAME	SIGNATURE
HIGH PRESSURE BOILER PLANT		CHD	N.MADURAVEERAN	N.maduraveeran
TIRUCHIRAPALLI - 620014		APPD	G.GOVINDARAJ	G.Govindaraj
			S.MOAHN	S.Mohan
DEPT	GRADE OF UNTOL. DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DWG NO
M&S	2597	1:2	4.32	2-M-02A46-05756
				REF TO OLD DWG NO
TITLE			CARD CODE	DRAWING NO :
END COVER 300 x 17.4t			U 01	3-M-02A46-15865
(DRIVE WHEEL ASSEMBLY)				REV
				00

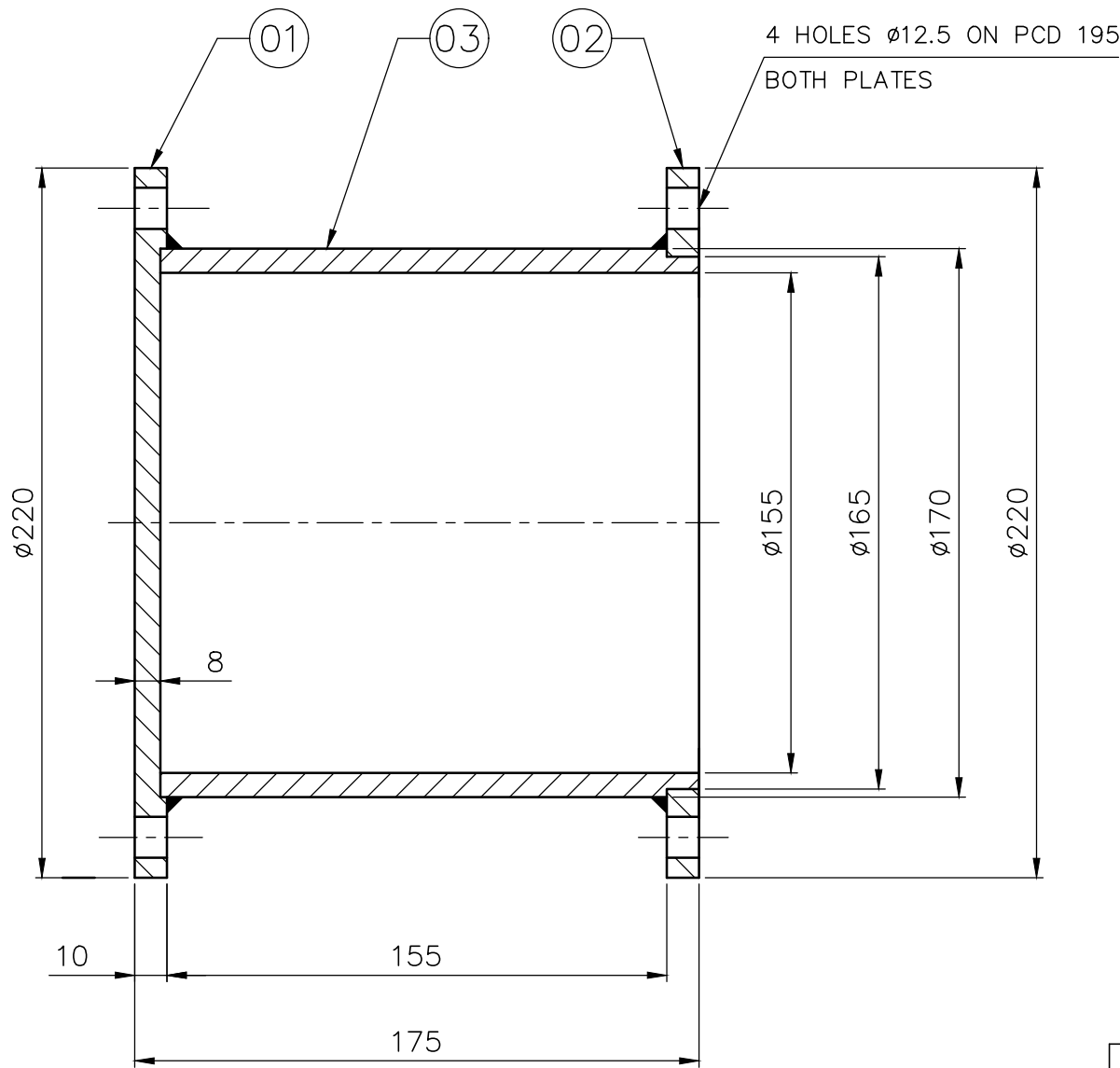
A3-SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

3-M-02A46-15866

DRAWING NO:



NOTE: –
01. ALL JOINTS ARE WELDED.
02. SHARP EDGES TO BE REMOVED.

03	PIPE ø177.8 x 18t x 167L	–	ASME	5.02
			SA 106 Gr C	1
02	PL 10t x ø220 IS 1730	–	IS 2062	1.30
			E 250 A	1
01	PL 10t x ø220 IS 1730	–	IS 2062	2.98
			E 250 A	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

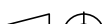
EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI – 620014

DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 17.02.18
CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	17.02.18
APPD	S.MOAHN	<i>S.Mohan</i>	17.02.18

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

DEPT M&S	GRADE OF UNTOL. DIM Ø/√M/√F IS: 2102		SCALE 1:2 —	WEIGHT (Kg) 9.30	REF TO ASSY DWG NO 3-M-02A46-15844	ITEM 01
CODE 2597			REF TO OLD DWG NO —			
TITLE BUFFER OUTER HOUSING (BUFFER ASSEMBLY)				CARD CODE U 01	DRAWING NO : 3-M-02A46-15866	REV 00

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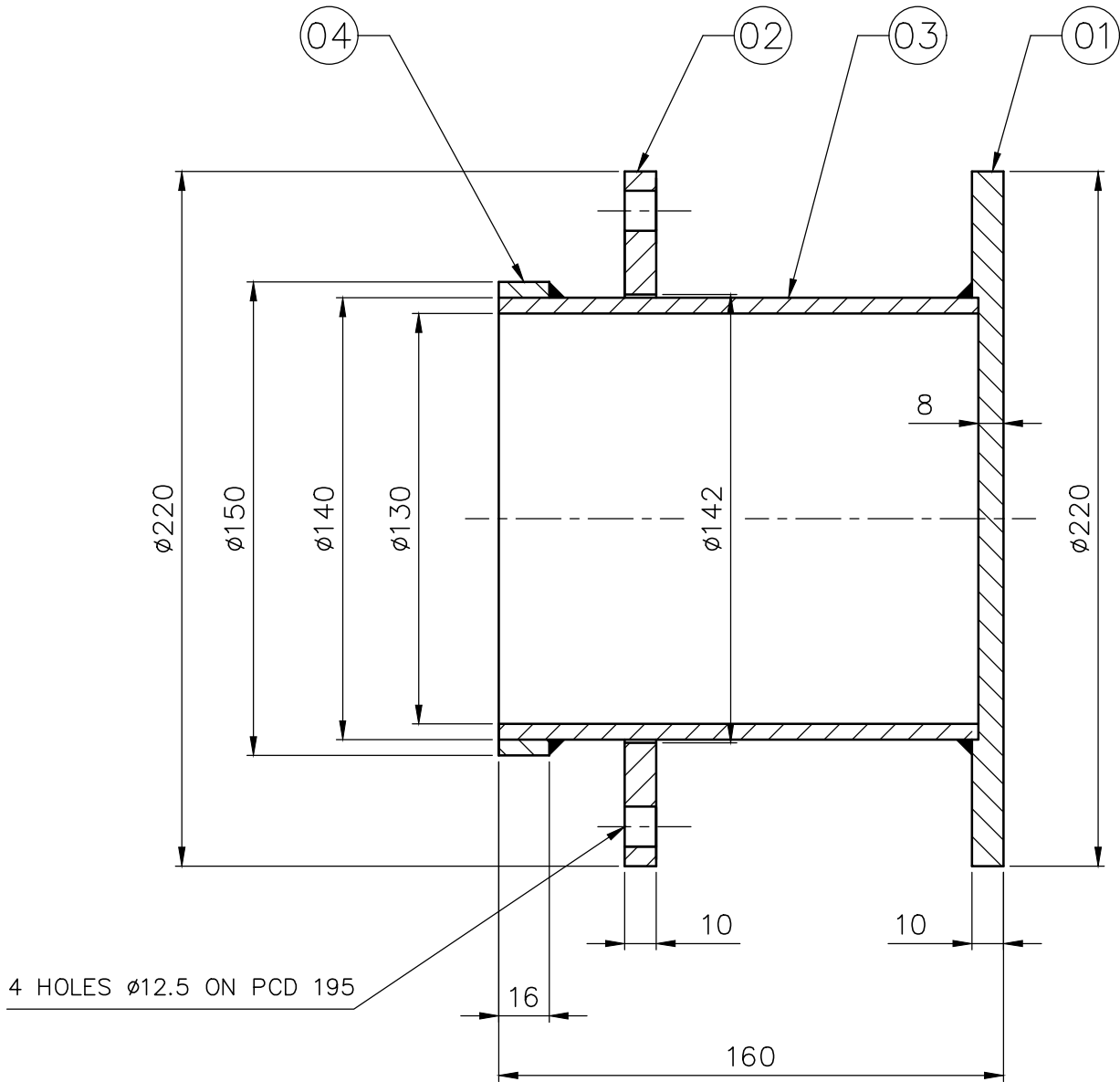
A3–SIZE

ALL DIMENSIONS ARE IN MILLIMETRES

3.2/

3-M-02A46-15867

DRAWING NO:



NOTE: -

01. ALL JOINTS ARE WELDED.

02. SHARP EDGES TO BE REMOVED.

04	PIPE $\phi 159 \times 15t \times 16L$	-	ASME	0.18
			SA 106 Gr C	
03	PIPE $\phi 159 \times 15t \times 152L$	-	ASME	2.53
			SA 106 Gr C	1
02	PL 10t x $\phi 220$ IS 1730	-	IS 2062	1.74
			E 250 A	1
01	PL 10t x $\phi 220$ IS 1730	-	IS 2062	2.98
			E 250 A	1
ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY

EQPT: EOT CRANE / ACESS 20/10T LOCATION NO 7910 8195



Bharat Heavy Electricals Ltd
HIGH PRESSURE BOILER PLANT
TIRUCHIRAPALLI - 620014

DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 17.02.18
CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	17.02.18
APPD	S.MOAHN	<i>S.Mohan</i>	17.02.18

DEPT M&S	GRADE OF UNTOL. DIM $\phi / M / \#$ IS: 2102	SCALE 1:2 -	WEIGHT (Kg) 7.37	REF TO ASSY DWG NO 3-M-02A46-15844	ITEM 02
CODE 2597				REF TO OLD DWG NO -	
TITLE BUFFER INNER HOUSING (BUFFER ASSEMBLY)			CARD CODE U 01	DRAWING NO : 3-M-02A46-15867	REV 00

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REV	DATE	ALTERED CHECKED APPROVED
ZONE		

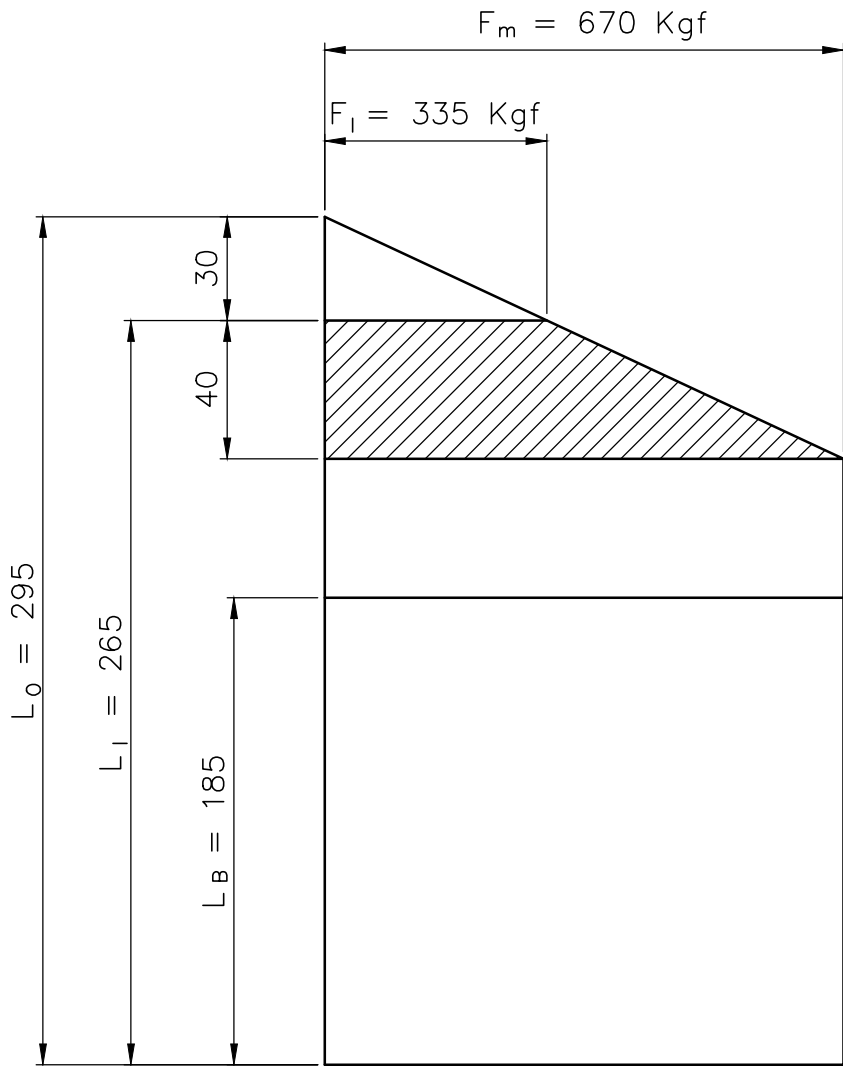
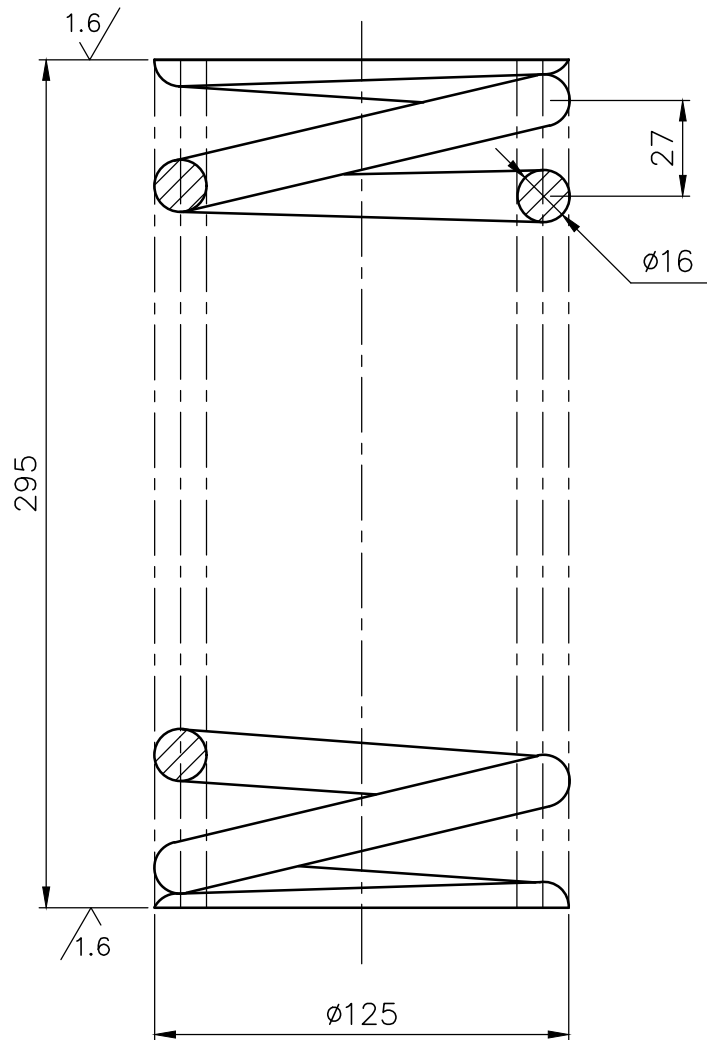
A3-SIZE

3-M-02A46-15868

DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETRES

3.2 / 1.6



SPRING DETAILS

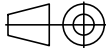
SPRING OD	ø125
WIRE DIA	ø16
NO.OF COIL	10 NOS.
EFFECTIVE COIL	8 NOS.
PITCH	27
FREE LENGTH	295
ENDS	CLOSED AND SQUARED BY GRINDING HARDENED AND TEMPERED.
SPRING RATE	6.7 Kgf
BLOCK LENGTH	135

LOAD vs DEFLECTION CURVE

NOMENCLATURE AS PER IS 7906 - II

REV	DATE	ALTERED
		CHECKED
		APPROVED
ZONE		

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—		ROD Ø16 x 2983L IS 3431		—		IS 3431		4.14		
						SPRING STEEL 55 Si 7		1		
ITEM NO		DESCRIPTION		DRAWING NO		MATL CODE		UNIT WT		
						MATL SPEC		QTY		
EQPT: EOT CRANE / AACESS 20/10T LOCATION NO 7910 8195										
 Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI — 620014				DRN	NAME N.MADURAVEERAN	SIGNATURE <i>N.maduraveeran</i>	DATE 17.02.18			
				CHD	G.GOVINDARAJ	<i>G.Govindaraj</i>	17.02.18			
				APPD	S.MOAHN	<i>S.Mohan</i>	17.02.18			
DEPT M&S		GRADE OF UNTOL. DIM			SCALE 1:2 —	WEIGHT (Kg) 4.14	REF TO ASSY DWG NO 3-M-02A46-15844			ITEM 03
CODE 2597		Ø / M / F IS: 2102					REF TO OLD DWG NO —			
TITLE COMPRESSION SRRING Ø125 x Ø16 x 295 (BUFFER ASSEMBLY)						CARD CODE U 01	DRAWING NO : 3-M-02A46-15868			REV 00

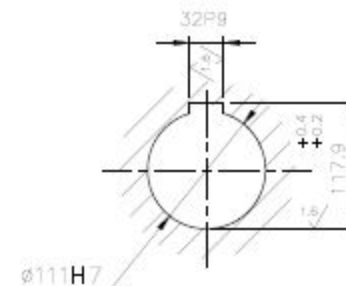
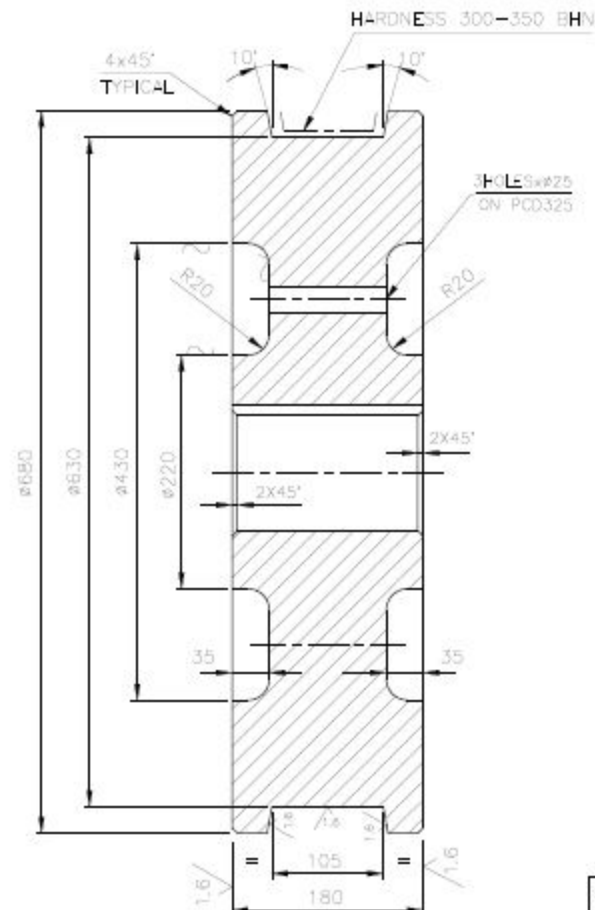
ALL DIMENSIONS ARE IN MILLIMETRES

3-M-02A56-15314

DRAWING NO.

32P9	-0.026	ø111H7	+0.035
	-0.088		+0.000

3.2/1.6



SUPERCEDED BY DRG. NO.: 4M02A5629292

NOTE:-

01. RAW MATERIAL OF SUITABLE SIZE SHALL BE SELECTED
02. TREAD DIAMETER AND FLANGE SURFACE TO BE HARDENED 300 TO 350 BHN TO A DEPTH OF 15-20MM

REV	DATE	ALTERED CHECKED APPROVED

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ITEM NO	DESCRIPTION	DRAWING NO	IS 5517	400.68
	BAR ø680 x 180 IS 1875		55 C8	1
			MATL CODE	UNIT WT
			MATL SPEC	QTY
EQUIP: EOT CRANE / UNICON 20T/10T/28.65M				
Bharat Heavy Electricals Ltd		DRN	G. GOVINDARAJ	SIGNATURE
HIGH PRESSURE BOILER PLANT		CHD	R. RAMAMURTHY	DATE
TIRUCHIRAPALLI - 620014		APPD	G. THAGARAJAN	05.08.14
ITEM NO	GRADE OF UNTIL DIM	SCALE	WEIGHT (Kg)	REF TO ASSY DRG NO
2597	ø/M/F IS 2102	1:5	400.68	REF TO OLD DRG NO
TITLE			CARD CODE	REV
LT WHEEL Ø680xØ111 x180			U 01	00
DRAWING NO :			3-M-02A56-15314	

A3-SIZE