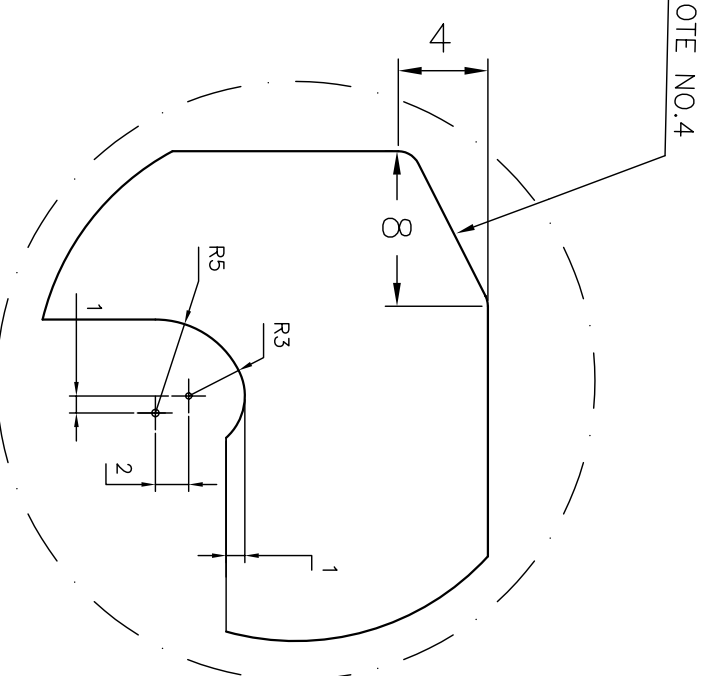
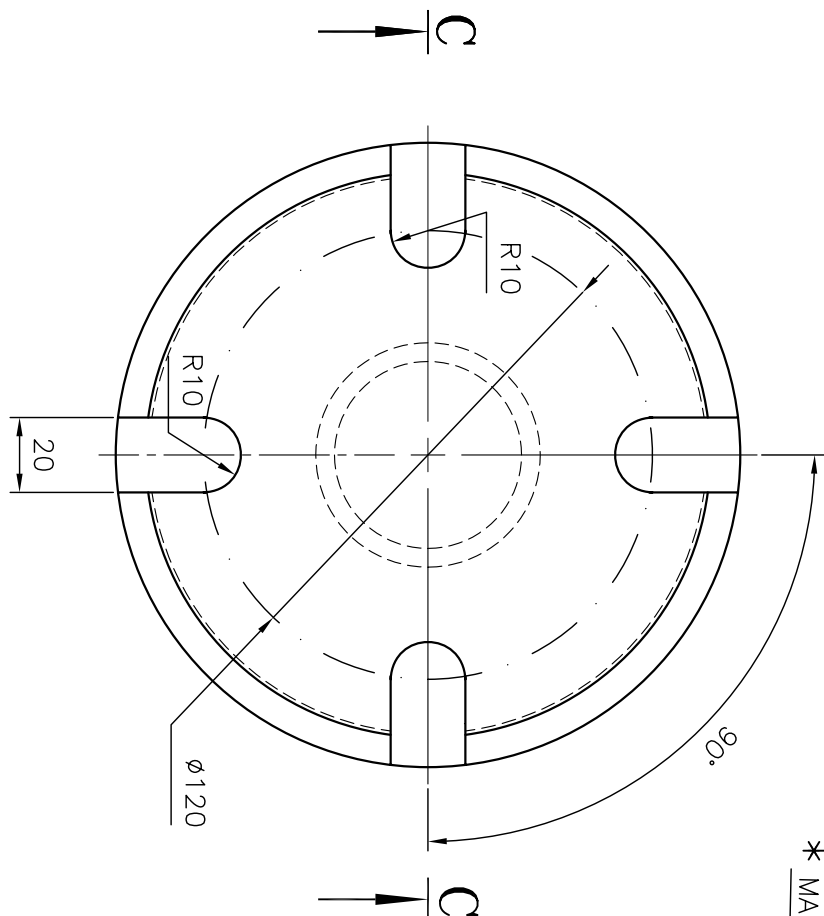
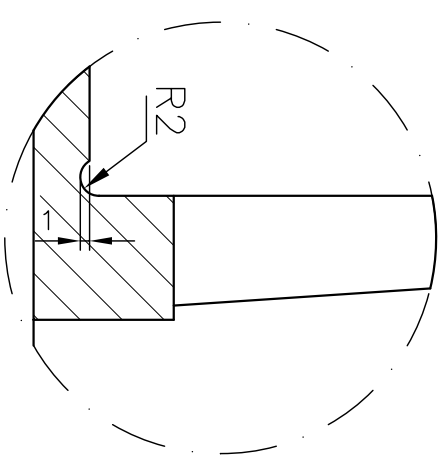
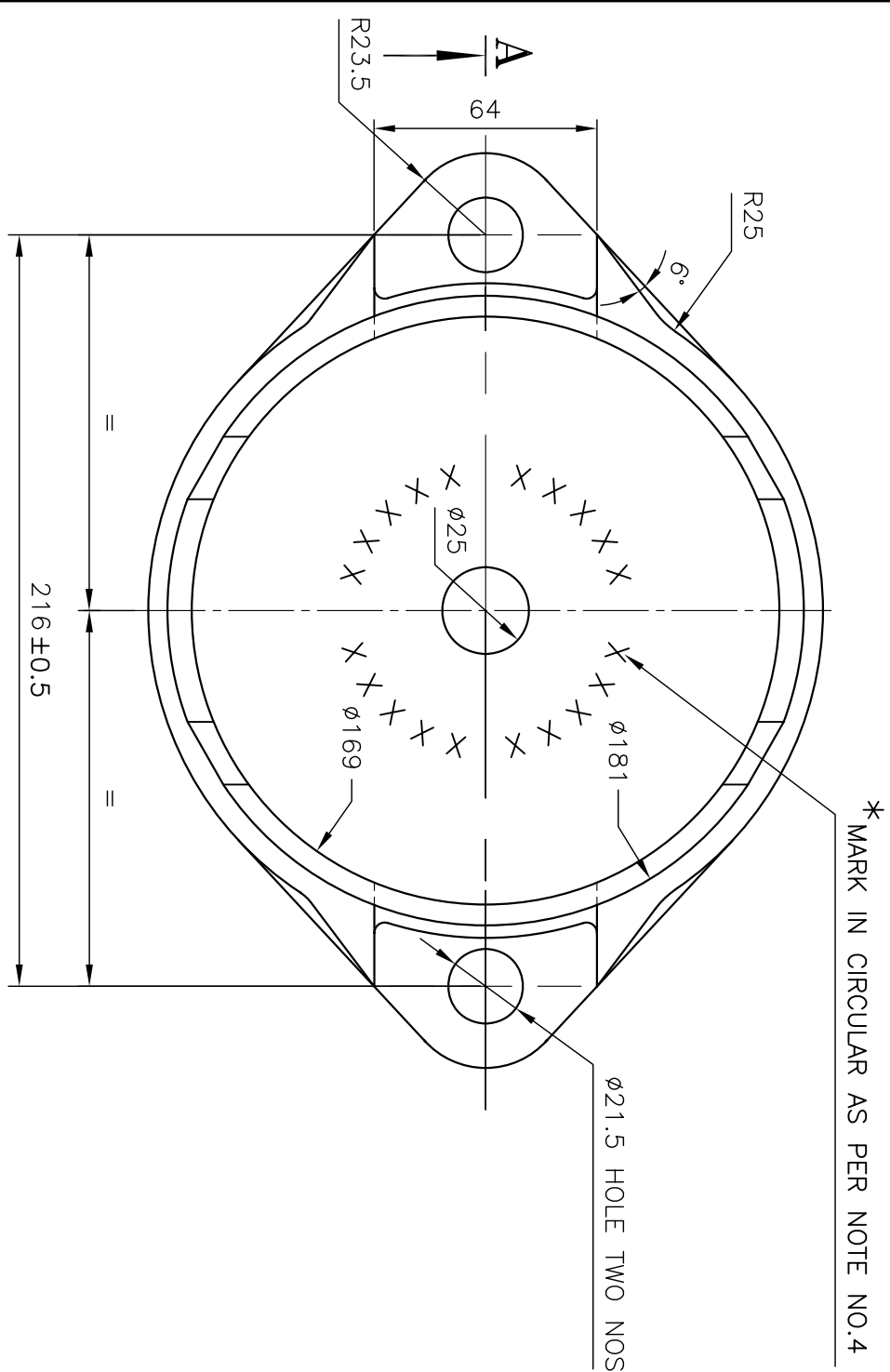


SECTION - 'AA'

SECTION – ‘BB’

SECTION - 'CC'



ENLARGED DETAIL AT-'A'

DESCRIPTION	OUTER SPRING	INNER SPRING
FREE HEIGHT (Hf) (mm)	143±1	143±1
SOLID HEIGHT (Hs) (mm)	86.50	86.50
DEFLECTION FREE TO SOLID (mm)	56.50	56.50
WIRE DIA (d) (mm)	21.00	15.00
OUTER DIA OF COILS (D) (mm)	144.5	97.5
NO. OF EFFECTIVE COILS	3.02	4.66
SOLID CAPACITY (kg)	1930	1090
SCRAG TEST LOAD (Kg)	1930	1090
VERTICAL STIFFNESS (Kg/mm)	34.22	19.33
WINDING	R.H.	L.H.
WORKING HEIGHT (mm)	108.5	108.5

SPRING DESIGN DATA TABLE

PARAMETERS	VALUE
FREE HEIGHT	163±1.5 mm
TEST SET UP HEIGHT	128.5 mm
SOLID HEIGHT	112.5 mm
PRE LOAD	1850±100 Kg
WEIGHT OF ASSEMBLY	16.4 kg (Approx)

DESIGN PARAMETERS OF CCSB

7. FOR FORGED HOUSINGS, FIRM SHALL SUBMIT THEIR OWN DRAWING INDICATING RAW MATERIAL SPECIFICATION, FINAL PROPERTIES OF THE FINISHED HOUSINGS AND TEST METHODS.

8. THE SPRINGS SHALL BE MANUFACTURED & INSPECTED AS PER RD50 SPECIFICATION WD-01-HLS-94 (LATEST) WITH REQUIREMENTS OF THIS DRAWING AND SOURCED FROM R.D.S.O. APPROVED VENDOR.

NOTE:

1. SURFACE ROUGHNESS VALUES TO IS:3073.
2. UNSPECIFIED TOLERANCE ON CASTING DIMENSIONS SHALL BE AS PER IS:4887 CLASS-I CATEGORY.
3. UNSPECIFIED TOLERANCE ON MACHINED DIMENSIONS SHALL BE AS PER IS:2102 MEDIUM CLASS. ALL SHARP CORNERS TO BE ROUNDED OFF.

- *4. MARKING ON BOTH (TOP & BOTTOM) HOUSINGS SHALL BE "WD-62-MISC-17", "MANUFACTURER'S INITIAL" AND "MONTH & YEAR OF MANUFACTURE" IN DEPRESSED (1-2 mm AFTER MACHINING) LETTERS OF AT LEAST 5mm HEIGHT AT LOCATIONS AS INDICATED.
5. SIDE BEARER ASSEMBLY SHALL ALSO BE TESTED AT THE VERTICAL FORCE OF 94.8t THROUGH TOP SURFACE OF THE TOP HOUSING FOR ABOUT ONE MINUTE WITHOUT EXPERIENCING ANY CATASTROPHIC FAILURE OR PERMANENT SET.
- ** 6. ITEM NO. 1 & 2 SHALL BE ADI CASTING AS PER ASTM SPECIFICATION A897/A897M GRADE-1050/750/7 OR ONE GRADE HIGHER AND SOURCED FROM R.D.S.O. APPROVED VENDOR. FORGE HOUSINGS OF EQUIVALENT PROPERTIES CAN BE USED WITH PRIOR APPROVAL OF R.D.S.O.

ITEM	DESCRIPTION & DIMENSIONS	NO. OF PER BOGE	REF. DRG.	WGT NO. OF (KG)	MAT. & SPEC.	REMARKS
8	ø4 SPLIT PIN	4	-	-	IS:549	-
7	M20 CASTLE NUT	4	-	0.1	IS:2232	-
6	SPRING WASHER	4	-	0.03	IS:2016	-
5	HIGH TENSILE BOLT M20X80-8.8	4	-	0.3	IS:1363	-
4	INNER SPRING	2	-	2.1	IS:3195 GR.52C4Mo2V	-
3	OUTER SPRING	2	-	4.5	GR.52C4Mo2V IS:3195	-
2	TOP HOUSING	2	-	4.9	**	SEE NOTE 6
1	BOTTOM HOUSING	2	-	4.5	**	SEE NOTE 6

HEIGHT (mm)	OUTER SPRING	135.69	128.39	121.09	113.78	106.48	99.18	86.5
	INNER SPRING	130.07	117.14	104.21	91.28	–	–	86.5
LOAD (TONNES)	0.25	0.5	0.75	1.00	1.25	1.5	TEST LOAD	

TEST TABLE FOR SPRINGS

3	WD-20001	DRG. REVISED	01/20
ALT. ITEM	AUTHY.	DESCRIPTION	DATE
			ASSEMBLY DRAWING

R.D.S.O.	WD-12008-S/1
B.G.	
(w)	

ASSEMBLY OF SIDE BEARER

FOR INDIAN RAILWAY FREIGHT BOGIES
SIDE BEARER ASSEMBLY & DETAILS
(SPRING LOADED TYPE)
WD-12008-S/1