

A	
B	
C	
D	
E	
F	
G	
H	



C



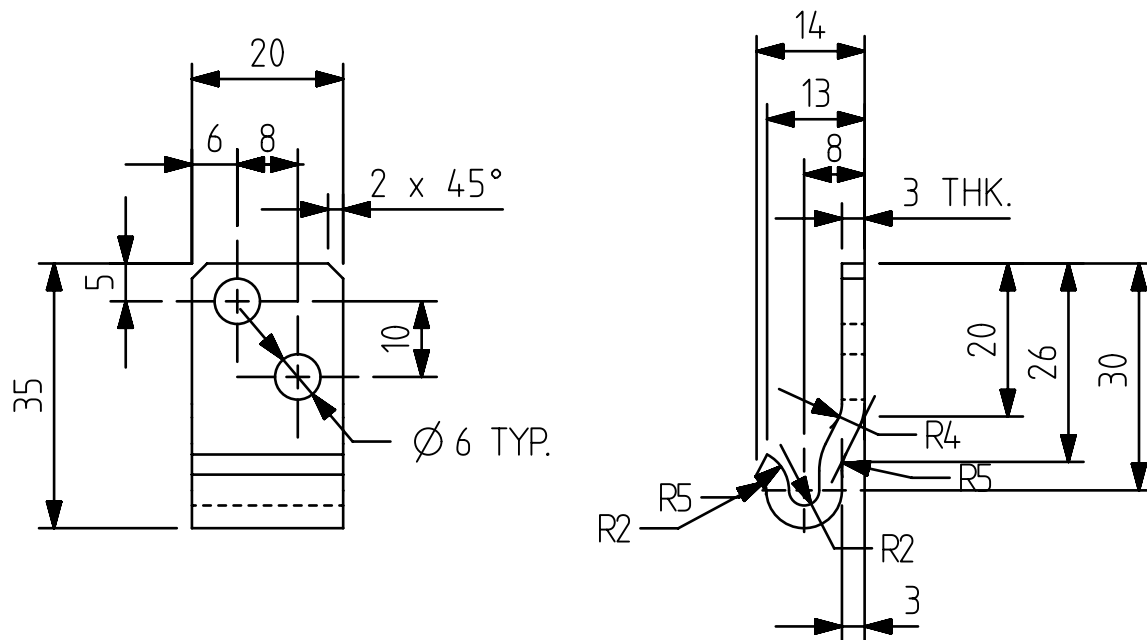
- FOLLOWING
TOLERANCE

209-08.3

H

A
B
C
D
E
F
G
H

SURFACE ROUGHNESS Ra VALUES IN μm
REMOVE ALL BURRS AND SHARP EDGES



1. ALL DIMENSIONS ARE IN mm
2. NEXT ASSLY. DRG. NO- SBMA_001
3. MATL.:STEEL
4. SPECN: IS:2062:2011 Gr.E250 QUALITY-C KILLED NORMALIZED
5. QTY/LOCO.:08 NO.
6. UNSPECIFIED TOLERANCE IN THE DIMENSIONS MENTIONED AT DRAWINGS TO BE FOLLOWED AS PER IS:2102 (PART 1):1993-TOLERANCE CLASS-MEDIUM OF TABLE-1
7. USED FOR LOCO-WAG-9 HC

CHITTARANJAN LOCOMOTIVE WORKS

FIRST ISSUED

CHECKED BY

APPROVED BY

HOOK

HOK_001

SIZE

A4

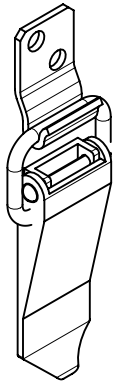
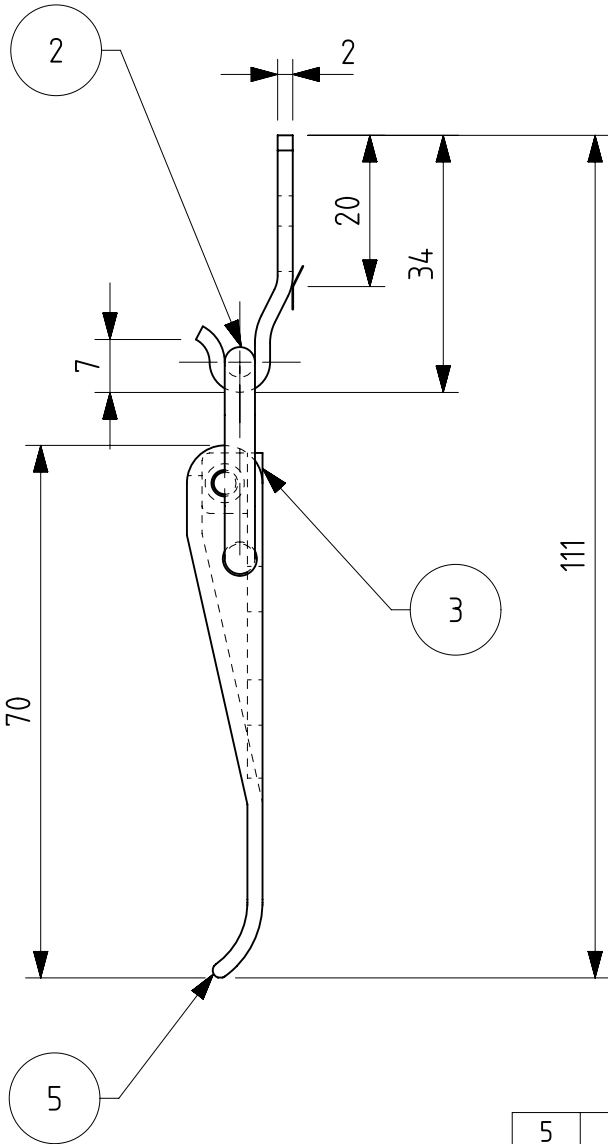
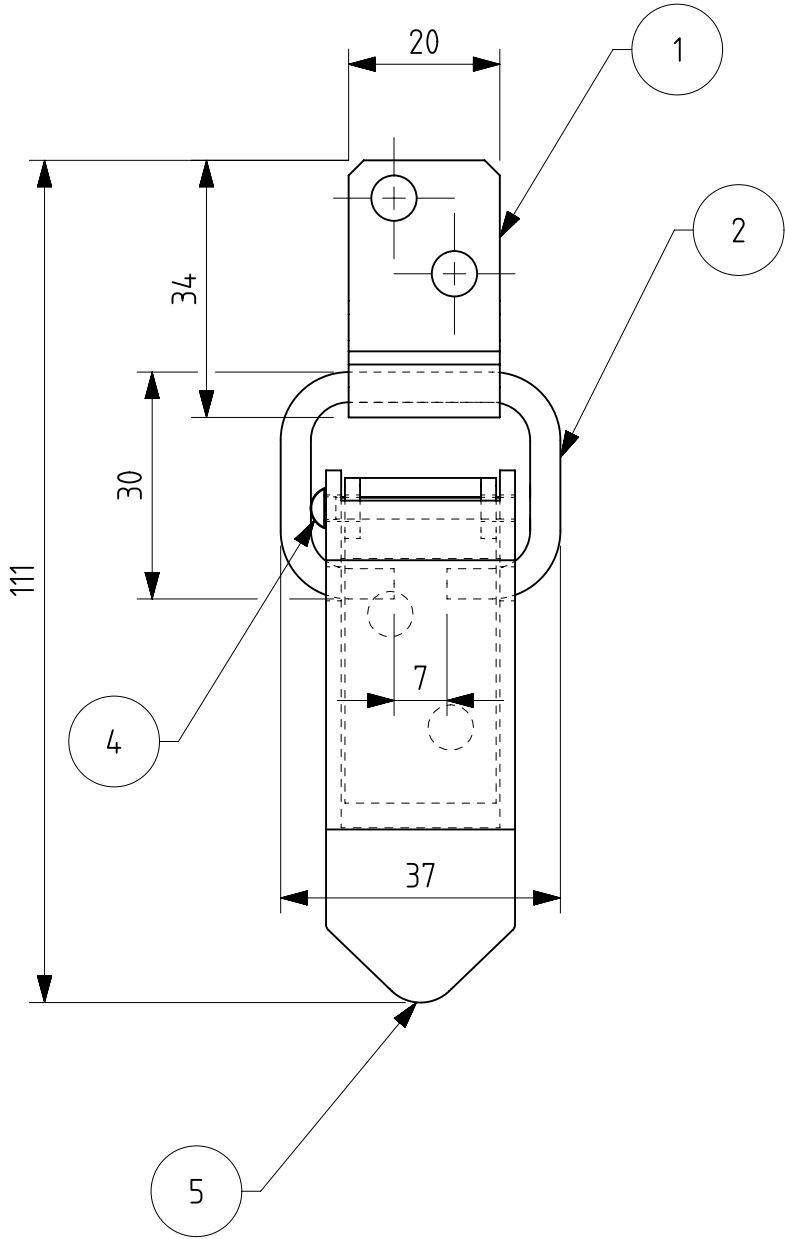
SCALE 1:1

SHEET REV

-

SHEET 1 OF 1

SURFACE ROUGHNESS Ra VALUES IN μm
REMOVE ALL BURRS AND SHARP EDGES


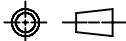


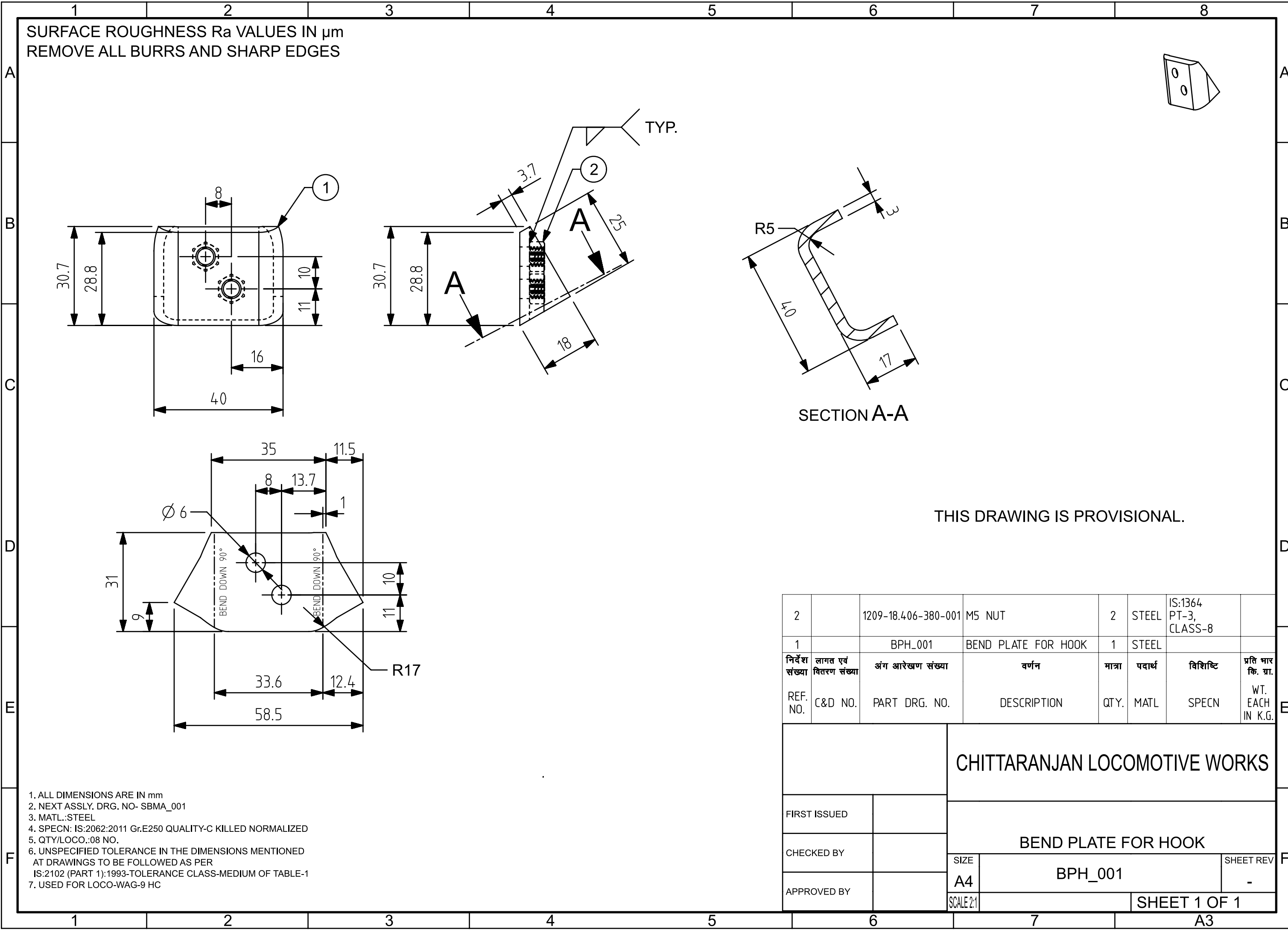
- ALL DIMENSIONS ARE IN mm
- NEXT ASSLY. DRG. NO-1209-08.331-351,1209-02.127-422
- C&D NO-/
- QTY./LOCO-03 NOS.
- USED FOR LOCO:WAG-9HC, WAP-7
- UNSPECIFIED TOLERANCE IN THE DIMENSIONS MENTIONED AT DRAWINGS TO BE FOLLOWED AS PER IS:2102 (PART 1):1993-TOLERANCE CLASS-MEDIUM OF TABLE-1

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. :2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12
	Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250
	Ra μm	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
सतह - रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	चिन्ह SYMBOL												

परिवर्तन संख्या	प्राधिकार	वर्णन	DESCRIPTION	दिनांकित आधार
ALT. NO.	AUTHY			DATED INITIAL

5	/	1209-08.431-363	TOP PLATE	1	STEEL	IS:1079 Gr. HR2	0.03
4	/	1209-08.431-361	RIVET	1	STEEL	IS:1148	
3	/	1209-08.431-362	BOTTOM PLATE	1	STEEL	IS:1079 GR. HR2	0.01
2	/	1209-08.431-360	CLIP	1	SPRING STEEL	IS:4454 (PART-I):2001 GR. DM	0.01
1	/	1209-08.431-359	BRACKET	1	STEEL	IS:1079 GR. HR2	0.01
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्ट	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G.

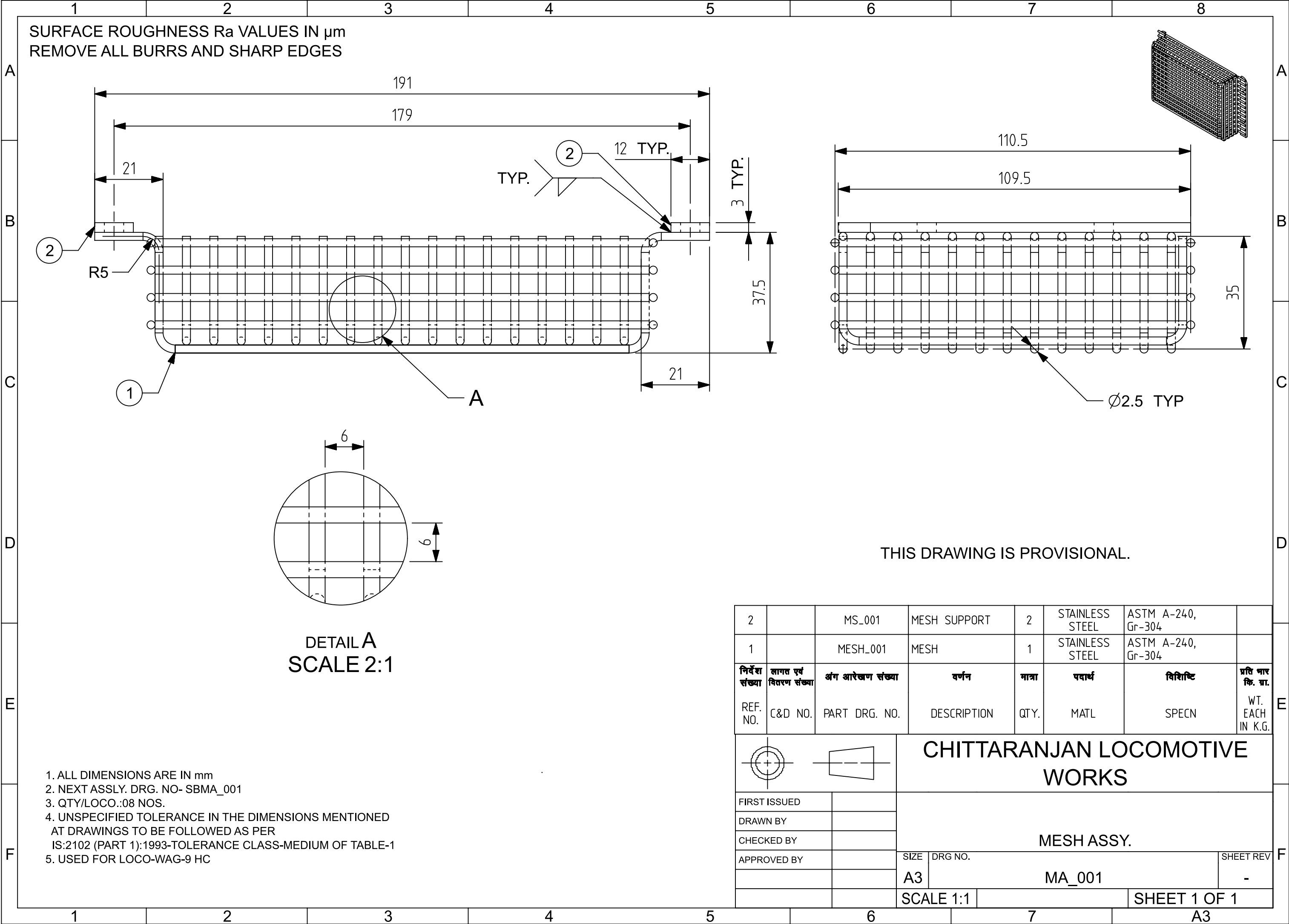
अधिकृतियत DGN			चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA			
जोचा व.अ.अ. CHD SSE	Bikash Naik <small>Digitally signed by Bikash Naik Date: 2025.03.13 17:45:58 +05'30'</small>		पदार्थ MATL		प्रति भार कि. ग्रा. WT. EACH IN KG	
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE			विशिष्टि SPECN			
अनुमोदित च.मु.वि.अ. APPROVED DYCEE	AMIT AGGARWAL <small>Digitally signed by AMIT AGGARWAL Date: 2025.03.13 17:55:47 +05'30'</small>		वर्णन DESCRIPTION			
दिनांक DATE			CLAMP ASSEMBLY			
रैखिक अनुपात SCALE	1:1	आरेखण संख्या DRAWING NO.		1209-08.331-358		
संदर्भ / REF.			परिवर्तन संख्या ALTERATION NO.	पर्ण SHEET	A3	
ALT-			0	1 OF 1		

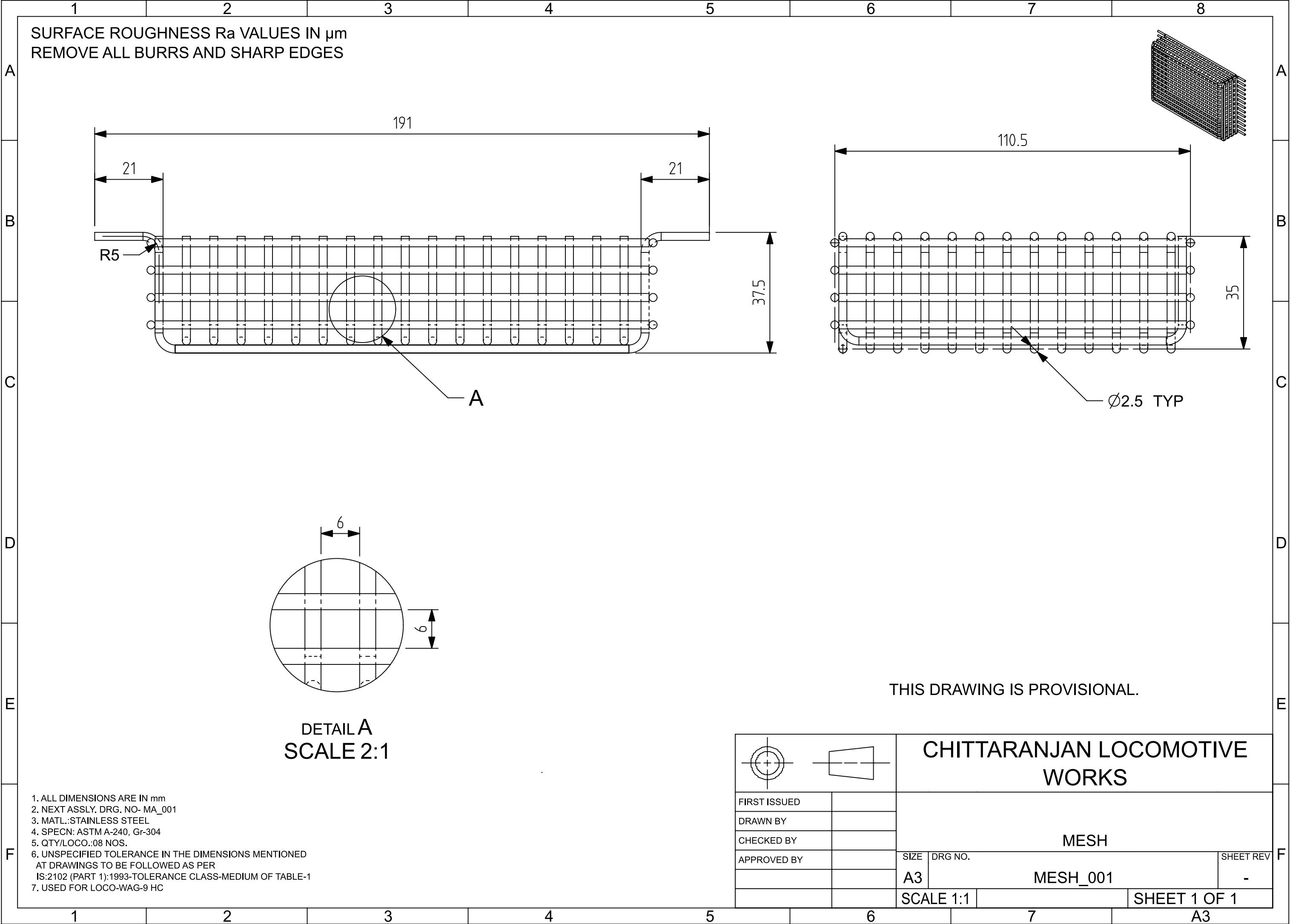


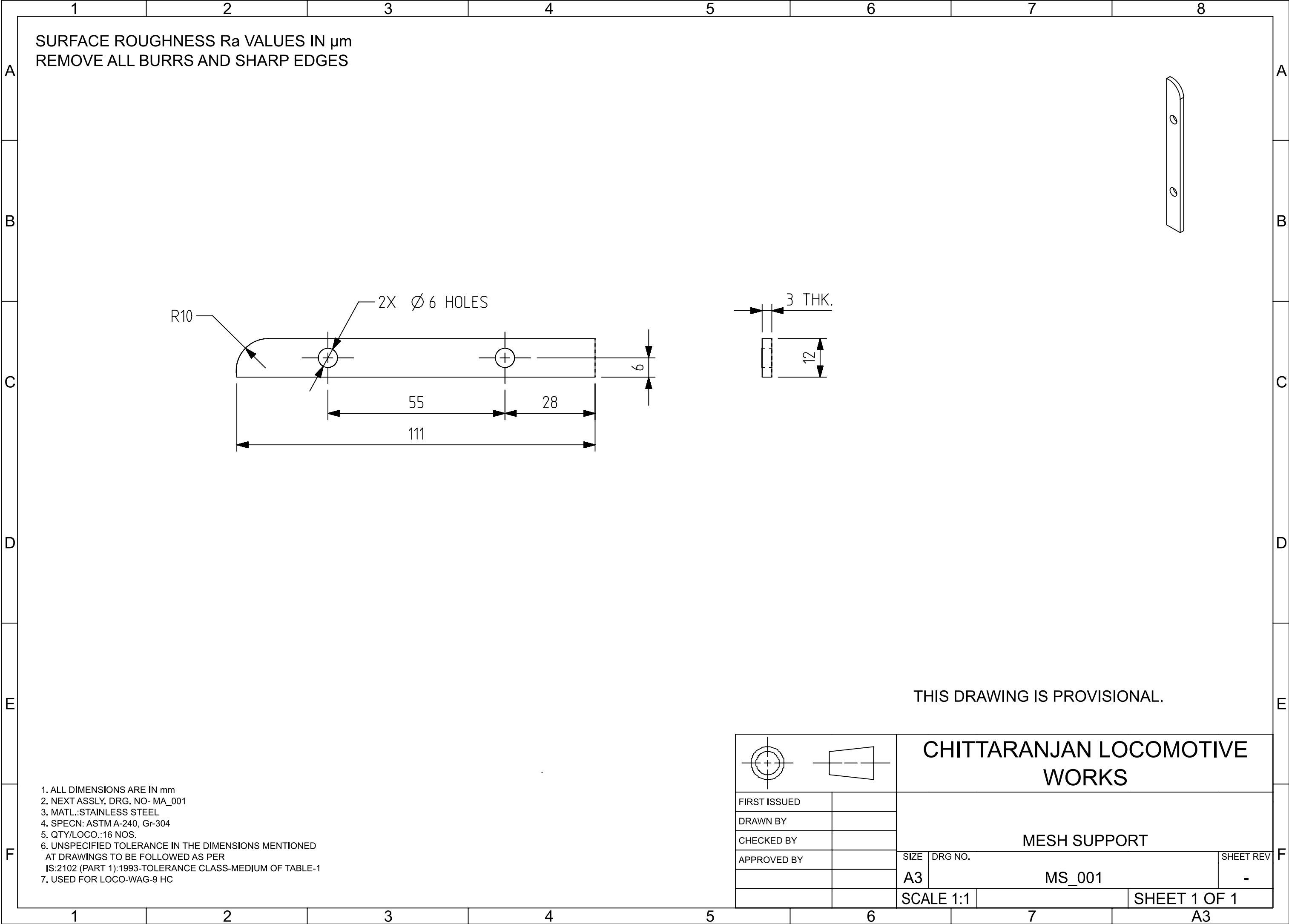
THIS DRAWING IS PROVISIONAL.

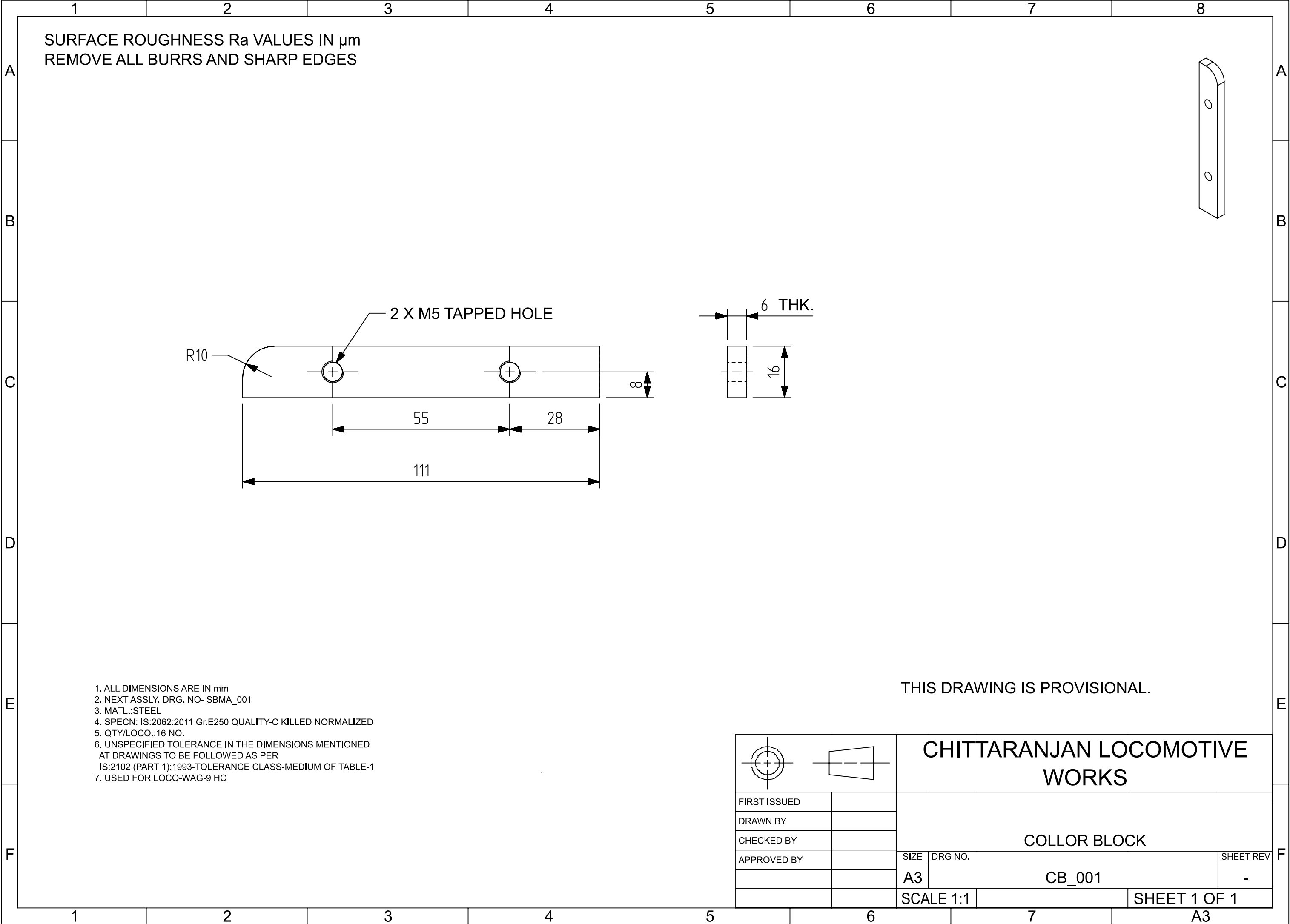
2		1209-18.406-380-001	M5 NUT	2	STEEL	IS:1364 PT-3, CLASS-8	
1		BPH_001	BEND PLATE FOR HOOK	1	STEEL		
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्टि	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G.
			CHITTARANJAN LOCOMOTIVE WORKS				
FIRST ISSUED							
CHECKED BY		BEND PLATE FOR HOOK					
		SIZE					SHEET REV
APPROVED BY		A4	BPH_001				-
		SCALE 2:1				SHEET 1 OF 1	

1. ALL DIMENSIONS ARE IN mm
2. NEXT ASSLY. DRG. NO- SBMA_001
3. MATL.:STEEL
4. SPECN: IS:2062:2011 Gr.E250 QUALITY-C KILLED NORMALIZED
5. QTY/LOCO.:08 NO.
6. UNSPECIFIED TOLERANCE IN THE DIMENSIONS MENTIONED AT DRAWINGS TO BE FOLLOWED AS PER IS:2102 (PART 1):1993-TOLERANCE CLASS-MEDIUM OF TABLE-1
7. USED FOR LOCO-WAG-9 HC

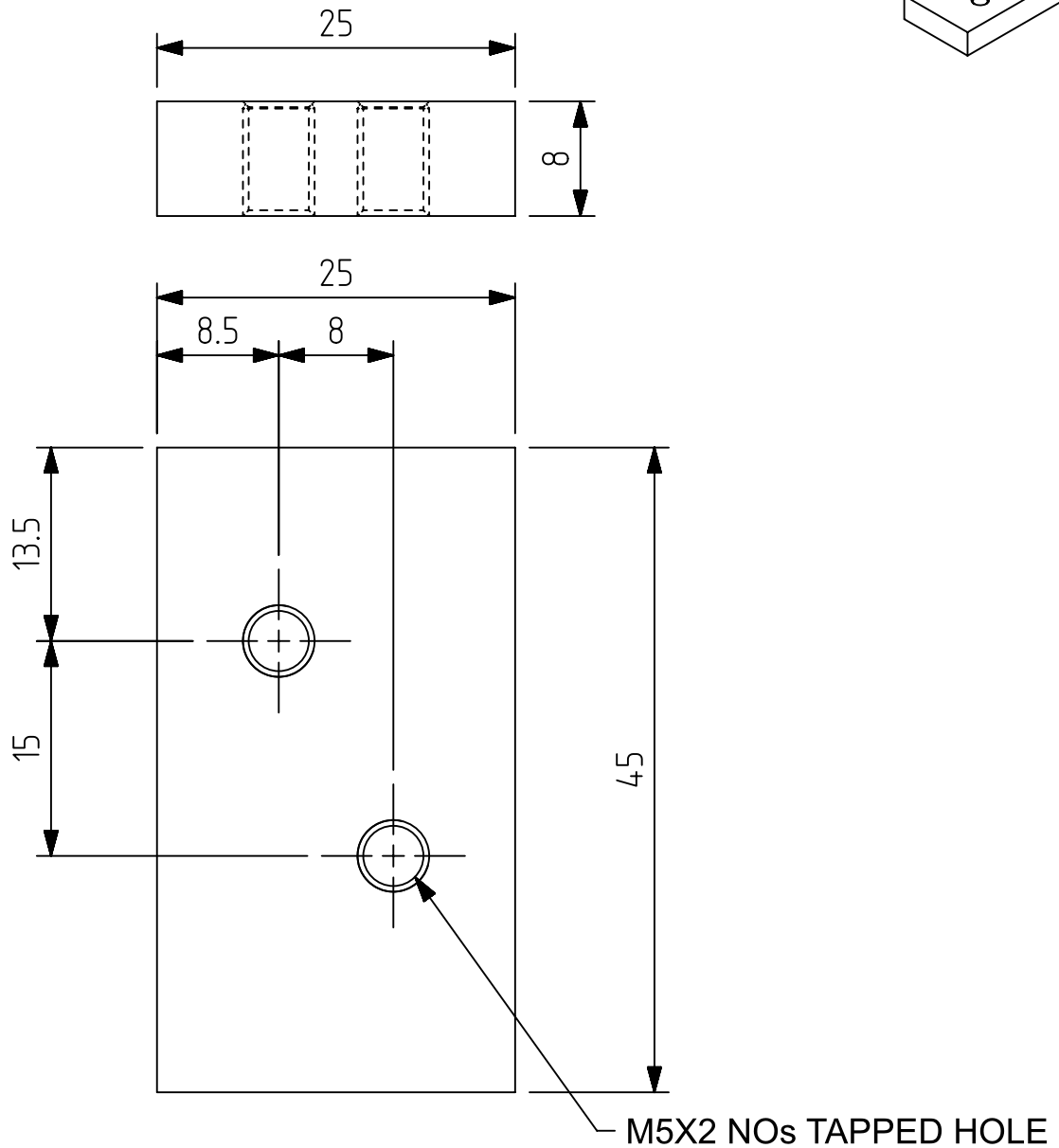
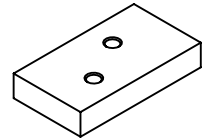








SURFACE ROUGHNESS Ra VALUES IN μm
REMOVE ALL BURRS AND SHARP EDGES



1. ALL DIMENSIONS ARE IN mm
2. NEXT ASSLY. DRG. NO- SBMA_001
3. MATL.:STEEL
4. SPECN: IS:2062:2011 Gr.E250 QUALITY-C KILLED NORMALIZED
5. QTY/LOCO.:08 NO.
6. UNSPECIFIED TOLERANCE IN THE DIMENSIONS MENTIONED AT DRAWINGS TO BE FOLLOWED AS PER IS:2102 (PART 1):1993-TOLERANCE CLASS-MEDIUM OF TABLE-1
7. USED FOR LOCO-WAG-9 HC

THIS DRAWING IS PROVISIONAL.

CHITTARANJAN LOCOMOTIVE WORKS

FIRST ISSUED

CHECKED BY

APPROVED BY

BLOCK

SIZE

A4

SCALE 2:1

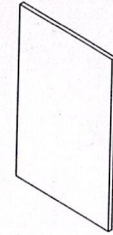
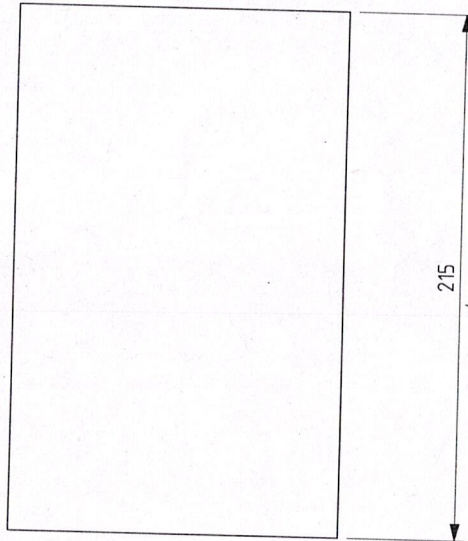
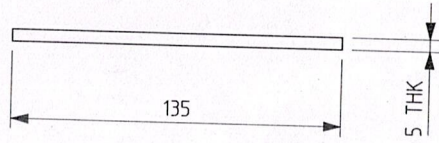
BL_001

SHEET REV

-

SHEET 1 OF 1

SURFACE ROUGHNESS Ra VALUES IN μm
REMOVE ALL BURRS AND SHARPE EDGES



1. ALL DIMENSIONS ARE IN mm.
2. NEXT ASSEMBLY DRG. NO. - 1209-01.138-031
3. C & D NO. -
4. QUANTITY PER LOCO - 08
5. USED FOR LOCO WAG-9HC AND WAP- 7
6. UNSPECIFIED TOLERANCE IN THE DIMENSIONS MENTIONED AT DRAWINGS TO BE FOLLOWED AS PER IS:2102(PART 1):1993-TOLERANCE CLASS-MEDIUM OF TABLE-1

घातु-वेल्डन चिन्ह		अनिर्दिष्ट सघ - सीमा भा. मा. : 2102 / अ. मा. सं. : 2768												TOL.
मा. मा. : 813 / अ. मा. सं. : 2553		UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												CLS.
WELDING SYMBOLS TO IS 813 / ISO 2553		पदक	सं1	सं2	सं3	सं4	सं5	सं6	सं7	सं8	सं9	सं10	सं11	सं12
		GRADE NO.	N1	N2	N3	N4	N5	N6	N7	N8	N9	N10	N11	N12
Rz		0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.0	5.0-6.3	8.0-10	16-25	30-40	50-63	75-100	160-250	
Ra μm		0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	
चिन्ह		चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह	चिन्ह
SYMBOL		SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL	SYMBOL

1. 100% MATERIAL SPECN MENTIONED

अधिकृत DGN	चितारंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA		
ऑफ व.ज.व. CHD SSE	RAJEEV KUMAR	पदार्थ MATERIAL	RUBBER
समीक्षित रा.वि.ज. / व.वि.ज. REVIEWED AEE / SEE	RAJEEV KUMAR	प्रति भार कि. ग्र. WT. EACH IN KG	0.2
अनुमोदित च.पु.वि.ज. APPROVED DYCEE	PAJKA KUMAR	वर्णन DESCRIPTION	CHLORO PRENE
दिनांक DATE	11.07.2023	आरेखण संख्या DRAWING NO.	1209-06.338-121
स्केल अनुपात SCALE	1:1	परिवर्तन संख्या ALTERATION NO.	1 OF 1
संदर्भ / REF. ALT.		परिपत्र SHEET	A3

RED WORK

307