

Rail Coach Factory, Kapurthala

MD46131

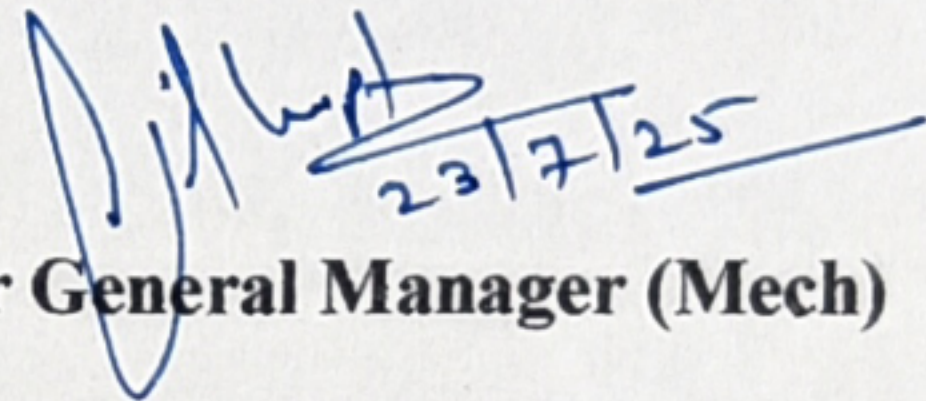
Dated : 23.07.2025

**Sub.: Corrigendum to CAI/RCF/MECH/LHB/066 Rev. Nil issued on 03.06.2024
(enclosed).**

In partial modification to CAI/RCF/MECH/LHB/066 Rev. Nil, issued on 03.06.24. the modification in above CAI has been carried out :-

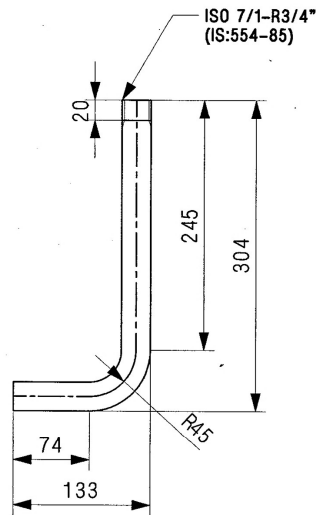
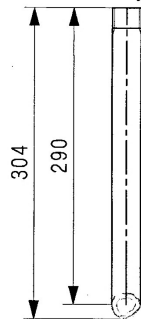
In Annexure – A, alt of drawing no. LW36324 for item no. 5 & drawing no. LW36325 for item no. 6 to be read as alt. 'a' in place of alt. 'Nil'.

DA/As above.


23/7/25
For General Manager (Mech)

Encl:-

- i) Drg. No. LW36324 alt 'a' & LW36325 alt a
- ii) CAI/RCF/MECH/LHB/066 Rev. Nil



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
a	08/06/2024	C-5	PIPE THREAD PROVIDE ON OTHER END ACCORDINGLY DRG REVISED.	DY. CME/D/S&PA B

22 JUN 2024

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NIL	PIPE ZONBX390	NIL	NIL	RDSO/SPEC/04-MB 02	ASTM-A312, Schd. 40S A181-304 (SEAMLESS)
-----	---------------	-----	-----	-----------------------	---

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP AIRBRAKE				
WEIGHT	FILE	Z:\lw36325a.prt(3D)				
0.920	KG					
S. AREA						
NIL	M ²					
LENGTH / -D+A						
0.390	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

RAIL COACH FACTORY, KAPURTHALA

रेल कोच फैक्टरी कपूरथला

IRS

PL NO. NIL

DRG.NO. LW36325

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 27/05/2024

CGM BY

1

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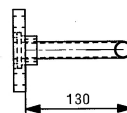
9

10


11

12

13



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FOR UNTOLERANCED DIMENSIONS REFER MDG0008	DATE OF FIRST ISSUE	27/05/2024	CGM

		4	PIPE 20 BORE	1	LW36325	NIL	NIL						
		3	FLANGE	1	CC36674	NIL	NIL						
		2	SOCKET	1	CC36675	NIL	NIL						
		1	SEALING RING	1	CC36318	NIL	NIL						
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS			QSSITY	DETAIL DRG	MATL. & SPEC.	REMARKS					
NIL	M	GROUP	AIR BRAKE			SUPERSEDES: LW36324 ALT NIL							
WEIGHT	FILE	//LW36324a.prt (3D)											
0.750	KG	PIPE WITH FLANGE (PIPE TO EQUIPMENT FOR 20 NB PIPE)					SCALE	ESE/REC					
S.AREA													
NIL	M ²												
LENGTH	+/-A												
NIL	M												
		RAIL COACH FACTORY, KAPURTHALA											
WIDTH	+/-THICK	रेल कोच फैक्टरी कपूरथला					IRS	REF. DRG. NO.	cc36478.prt a11-s				
NIL	M							PL NO.	00000000				
HEIGHT								DRG. NO.	LW36324				
NTI	M	ADE/SME	BY	QY	CME	N. R	CDE	ALT.	a	SIZE	A3	SHEET	1/1

रेल डिब्बा कारखाना, कपूरथला
RAIL COACH FACTORY, KAPURTHALA

MD46131

Dated: 02/08/2024

Corrigendum to CAI/RCF/MECH/LHB/066 Rev Nil issued on 03.06.24 (enclosed)

In partial modification to CAI/RCF/MECH/LHB/066 Rev Nil issued on 03.06.24. The modification CAI has been carried out :-

1. In para Additional/New items for modifications, Item No 17 of drawing no LW11290 Alt 'i' is replaced with item no 29 & 30 of drawing no LW11290 Alt 'j'.
2. Quantity of item no 17 of Drg No LW11290 Alt 'j', has been changed from 6 Nos to 1 No.
3. Item No 28 of Drawing No LW11290 Alt 'j' is deleted and Item 29 to 33 are added.


For General Manager (Mech)

Encl:

- i. Drg No LW11290 Alt 'j' (with Part Drgs No LW36337 Alt nil, LW36338 Alt nil, LW36339 Alt nil, LW36340 Alt nil & LW36341 Alt nil)
- ii. Main Assy Drg No LW36243 Alt 'i'.
- iii. CAI/RCF/MECH/LHB/066 Rev Nil issued on 03.06.24

Copy to:

The General Manager/Mechanical, Mechanical Branch, HQ Office:

1. Central Railway, Mumbai CST-400001
2. Eastern Railway, Fairlie Place, Kolkata-700001
3. Eastern Railway, Baroda House, New Delhi-110001
4. North Eastern Railway, HQ Office, Gorakhpur-273001
5. Northeast Frontier Railway, Maligaon, Guwahati-781011
6. Southern Railway, NGO Annexe, Park Town, Chennai-600003
7. South Central Railway, Rail Nilayam, Secunderabad-500371
8. South Eastern Railway, Garden Reach, Kolkata-700 043
9. Western Railway, Churchgate, Mumbai-400 020
10. West Central Railway, HQ Office, Jabalpur (MP)-462 001
11. East Central Railway, HQ Office, Hajipur-844 101
12. East Coast Railway, HQ Office, Rail Vihar, B-2, Chandrasekharapur, Bhubaneswar-751 001.
13. South Western Railway, New Zonal Headquarters Office, Gadag Road, Hubli-580 023
14. North Western Railway, HQ office, Jaipur-302 006
15. North Central Railway, HQ office, Allahabad-211 001
16. South East Central Railway, Bilaspur (Chhattisgarh)-495 004

The Chief Workshop Manager, Carriage & Wagon Workshop:

17. Matunga, Central Railway, Mumbai-400 019.
18. Bhopal, West Central Railway, Nishatpura, M.P.-462 001.
19. Lilluah, Eastern Railway, Howrah-711 204.
20. Gorakhpur, North Eastern Railway-273 001.
21. New Bongaigaon, North East Frontier Railway-783 381.
22. Perambur, Southern Railway, Chennai-600 023
23. Golden Rock, Tiruchirapalli-620 004.
24. Ashokapuram, South Western Railway, Mysore South-570 008.
25. Tirupati, South Central Railway-517 506.
26. Hubli, South Western Railway-580020
27. Mancheswar, East Coast Railway, Bhubaneswar-751 017.
28. Kharagpur, South Eastern Railway-721 301.
29. Lower Parel, N.M.Joshi Marg, Western Railway, Mumbai-400 013.
30. Jagadhari, Northern Railway-135 003.
31. Alambagh, Northern Railway, Lucknow-226 005.
32. Lallaguda, South Central Railway, Secunderabad-500 017.
33. Western Railway, Ajmer, Rajasthan.
34. North East Frontier Railway, Dibrugarh, Assam-786 001

Copy to: for kind information

1. EDME (W), Railway Board, New Delhi-110001.
2. EDME (Coaching), Railway Board, New Delhi-110001.
3. Director General/Carriage, RDSO, Manak Nagar, Lucknow-226 011.

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DATE OF FIRST ISSUE 22/03/2018 CGM BY

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	FILE	\\LW11290s2J.prt (3D)	SUPERSEDES: LW11290 ALT 1	
WEIGHT	KG	51.170	S.AREA	NIL	NIL	NIL
LENGTH/DIA	M	NIL	WIDTH/THICK.	NIL	NIL	NIL
HEIGHT	M	NIL	AD/SME	DRG	PL NO. NIL	DRG.NO. LW11290
					ALT.	SIZE

LOCATION OF HOLES AND WELDING PARTS COMPLETE ON U/F FOR AC/NAC SLEEPER EOG (LHB TYPE) COACH.

RAIL COACH FACTORY, KAPURTHALA

रेलकोच फेक्टरी कपूरथला

IRS

SCALE 1/15 CHD TARG PAWD

REF.DRG.No. NIL

PL NO. NIL

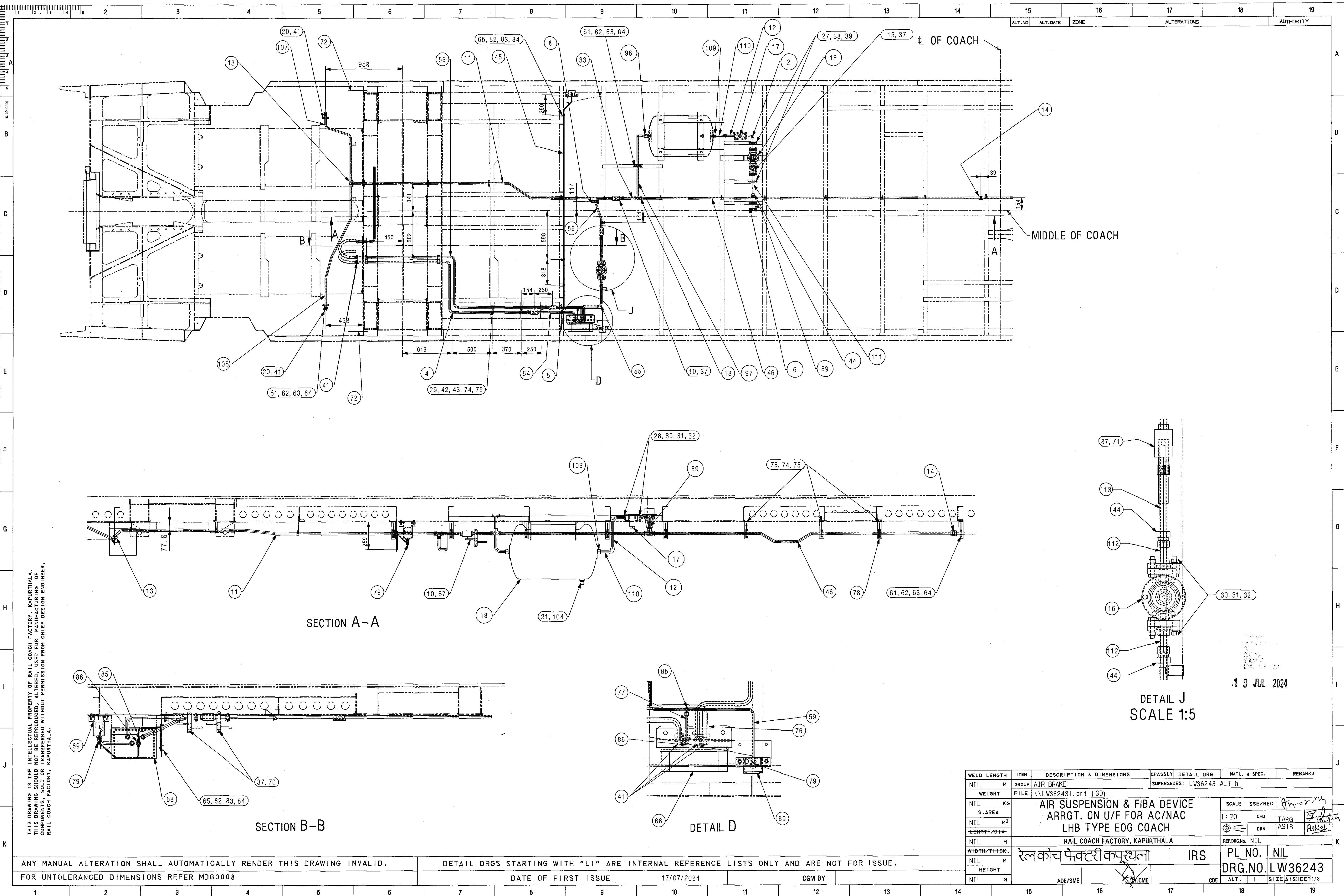
DRG.NO. LW11290

ALT. J SIZE A1 SHEET 2/2

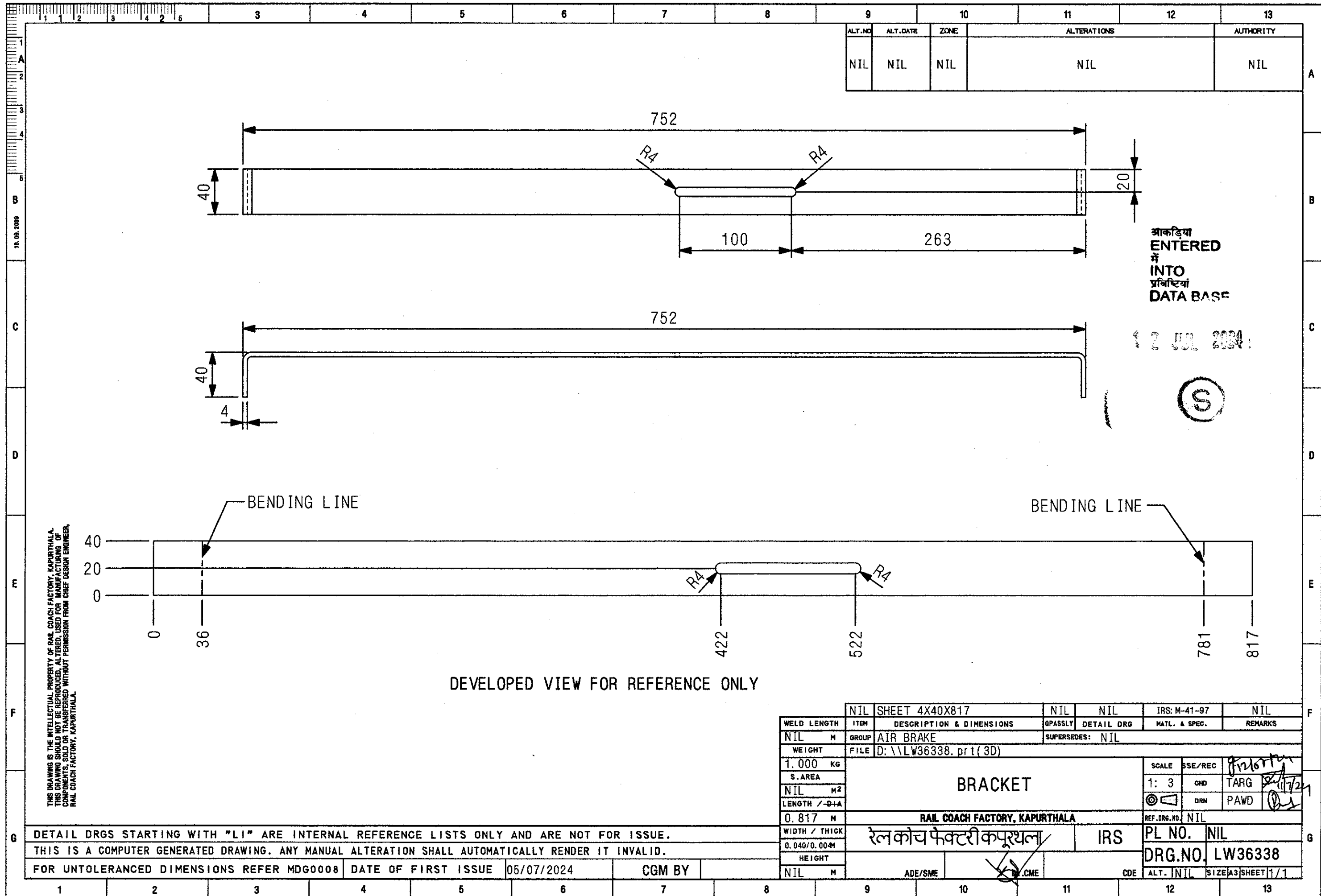
33	BRACKET	1	LW36341	NIL	NIL
32	BRACKET	1	LW36340	NIL	NIL
31	BRACKET	1	LW36339	NIL	NIL
30	BRACKET	1	LW36338	NIL	NIL
29	BRACKET	3	LW36337	NIL	NIL
28	BRACKET LONG	2	LW11309	NIL	NIL
27	BRACKET SHORT	4	LW11307	NIL	NIL
26	BRACKET COMPLETE	1	3 10113.0. 03.035.028	NIL	NIL
25	BRACKET	1	LW11298	NIL	NIL
24	INDICATOR BRACKET	1	LW11297	NIL	NIL
23	BRACKET	1	LW11300	NIL	NIL
22	INDICATOR BRACKET	1	LW11299	NIL	NIL
21	ANGLE 6X50X50 L=198	4	NIL	IRS: M41-97	NIL
20	BRACKET COMPLETE	2	LW11301	NIL	NIL
19	BRACKET	1	LW36176	NIL	NIL
18	BRACKET	1	LW11304	NIL	NIL
17	BRACKET	4	LW11316	NIL	NIL
16	PLATE 4X50X50	2	NIL	IRS: M41-97	NIL
15	BRACKET	2	ETH1139	NIL	NIL
14	ANGLE 5X30X45 L=454	2	NIL	IRS: M41-97	NIL
13	BRACKET	1	LW36281	NIL	NIL
12	BRACKET	1	LW36174	NIL	NIL
11	BRACKET	1	LA11111	NIL	NIL
10	BRACKET	2	L6H1354	NIL	NIL
9	BRACKET	3	L6H1353	NIL	NIL
8	BRACKET	4	LW11294	NIL	NIL
7	BRACKET	4	LE11376	NIL	NIL
6	BRACKET	2	LW11295	NIL	NIL
5	BRACKET	1	LW11292	NIL	NIL
4	BRACKET	2	LW11291	NIL	NIL
3	BRACKET	4	LW11293	NIL	NIL
2	BRACKET	2	L036389	NIL	NIL
1	BRACKET	4	LW36232	NIL	NIL

ENTERED INTO DATA BASE
2 JUL 2024
S

ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
i	27/05/2024	ALL	1. QTY OF ITEM NO. 16 WAS 6. 2. DETAIL DRG OF ITEM NO. 17 WAS LW11305 & QTY WAS 4.	DY CME/D/S&B
J	05/07/2024	ALL	1. QTY OF ITEM NO. 17 WAS 6. 2. ITEM NO. 28 IS DELETED 3. ITEM NO. 29 TO 33 ARE ADDED.	DY CME/D/S&B



[illegible]



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													B
													C
													D
													E
													F
													G

ALT.NO	ALT.DATE	ZONE	ALTERATIONS		AUTHORITY
NIL	NIL	NIL	NIL		NIL

752

40

R4

168

446

20

ENTERED INTO DATA BASE

12 JUL 2024

S

BENDING LINE

40

20

0

36

DEVELOPED VIEW FOR REFERENCE ONLY

478

646

781

817

BENDING LINE

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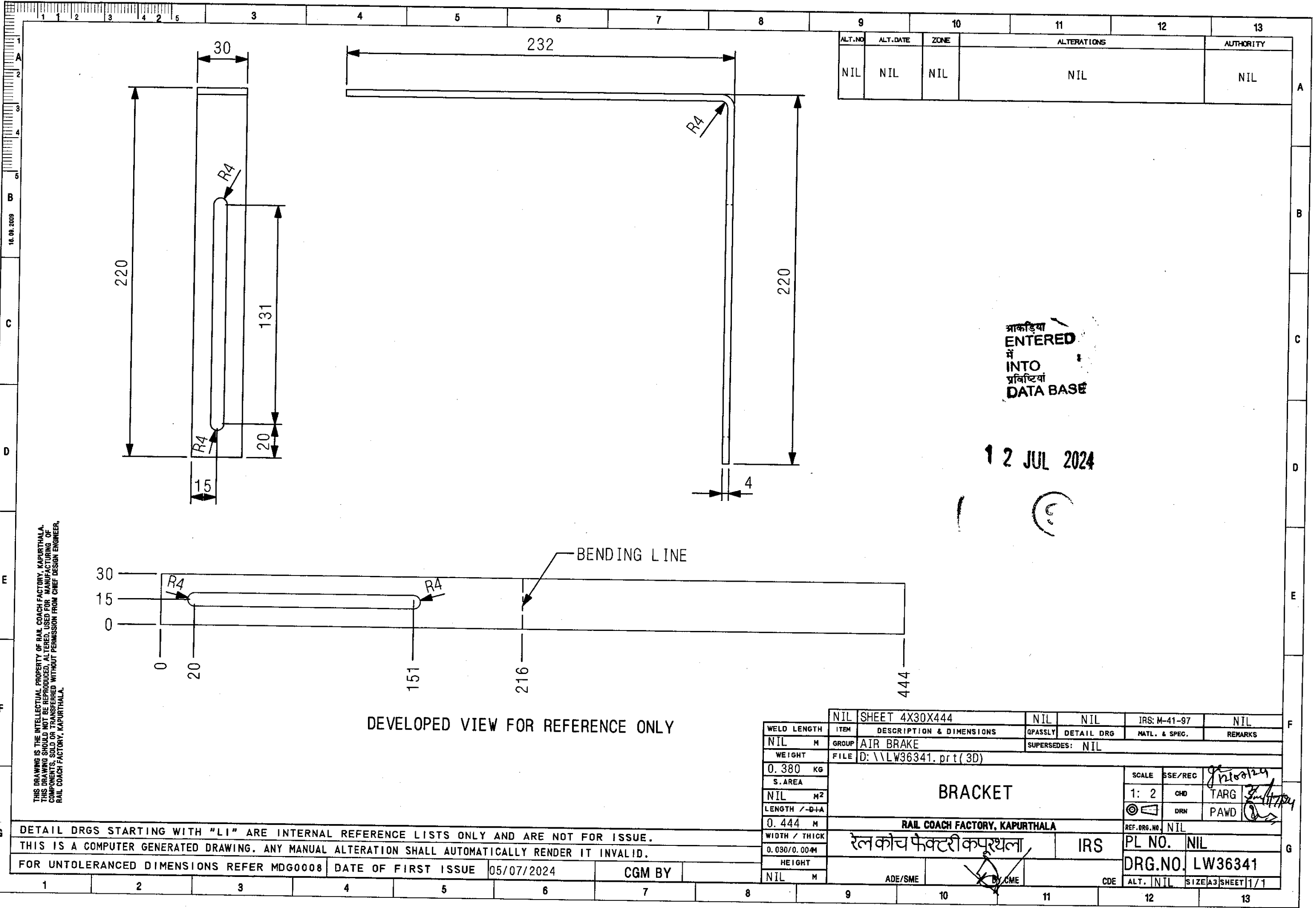
DATE OF FIRST ISSUE 05/07/2024

CGM BY

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL		M	GROUP AIR BRAKE		SUPERSEDES: NIL			
WEIGHT		FILE D:\LW36339.prt(3D)						
1.000		KG						
S.AREA								
NIL		M ²						
LENGTH / -D+A								
0.817		M						
WIDTH / THICK								
0.040/0.004								
HEIGHT								
NIL		M						

BRACKET		SCALE	SSE/REC	TARG	PAWD
1: 3		CHD	DRN	PAWD	
REF.DRG.NO		NIL			
PL NO.		NIL			
DRG.NO.		LW36339			
ALT.		NIL			
SIZE		A3 SHEET 1/1			

ADE/SME		S.Y.CME		CDE	
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ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL

आकडिया
ENTERED
में
INTO
प्रविष्टियां
DATA BASE

12 JUL 2024

BENDING LINE

DEVELOPED VIEW FOR REFERENCE ONLY

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	AIR BRAKE	SUPERSEDES:	NIL	
WEIGHT	FILE	D:\LW36341.prt (3D)				
0.380	KG					
S.AREA						
NIL	M ²					
LENGTH / -DIA						
0.444	M					
WIDTH / THICK						
0.030/0.004M						
HEIGHT						
NIL	M					
ADE/SME						
CDE						

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 05/07/2024

CGM BY

RAIL COACH FACTORY, KAPURTHALA

रेल कोच फैक्टरी कपूरथला

IRS

SCALE	SSE/REC	TARG	PAWD
1: 2	CHD	3/11/24	3/11/24
REF.DRG.NO	NIL	PL NO.	NIL
ALT.	NIL	DRG.NO.	LW36341
SIZE	A3	SHEET	1/1

RAIL COACH FACTORY, KAPURTHALA

MD46131

Dated:03/06/2024

COACH ALTERATION INSTRUCTIONS

1. **CAI No.** : **CAI/RCF/MECH/LHB/066**
2. **Group** : **LHB-Air brake.**
3. **Description** : **Modification in feed pipe line and air suspension line for
Connecting 150 L auxiliary reservoir in LHB coaches.**
4. **Authority for CAI** : **ED/Carriage's Letter no.SV.FIAT dated 09.04.2024.**
5. **Drawing nos.** :

#	Drawing No	Alt	Description
1	LW36243	h	Air suspension and FIBA arrgt. on u/f for AC / NAC LHB type EOG Coaches.
2	LW36164	c	Pipe
3	LW36283	Nil	Pipe with flange
4	LW36323	Nil	Tube 22 mm OD
5	LW36324	Nil	Pipe with flange for 20 NB
6	LW36325	Nil	Pipe 20 NB
7	LE36332	a	Pipe
8	LW11290	i	Location of holes and welding parts complete on u/f
9	LW11316	Nil	Bracket
10	CC36960	Nil	Pipe
11	CC36929	b	Elbow union
12	LW63110	Nil	Full clamp
13	ICF/SK3-3-5-004	d	Flange joint 20 bore (equip. to equip.)
14	LW36286	a	Pipe with flange

6. **Detail of Modifications** :

- 6.1. Pipe connection from Feed pipe line to Air suspension line modified and height of equipments raised; to avoid leakage from T- ferrule joint during train run.
6.2. Additional support brackets are provided for pipe clamp to secure pipes/equipment.

7. **Reason for modification:**

- 7.1. Working out of ferrule in air supply line due to this there is air leakage from T-ferrule joint of feed pipe line connecting 150 Liter auxiliary reservoir.
7.2. Frequently blast hit to deep overhang of metallic pipe connection between feed pipe line and 150-liter auxiliary reservoir.

8. **Coach concerned :**

LWFAC	LWFCWAC	LWACCW	LWACC
LFCZACHX (TEJAS),	LSCZACHX(TEJAS)	LWCBAC	LWSCZAC
LWFCZAC (LHB type EOG COACH).			

9. Implementation stage:

CAI is being issued to Railways and workshops to carry out the modification during IOH/POH.

10. Category of CAI:

A	B ✓
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~~A- Modifications shall be implemented immediately by user Railways.~~

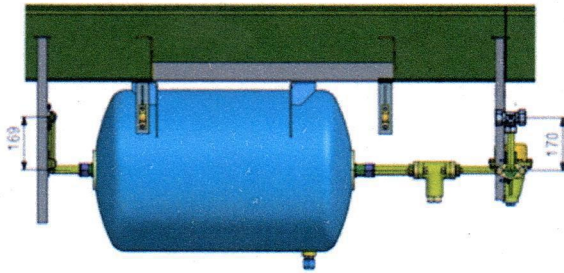
B- Modifications shall be implemented by user Railways as and when convenient.

Procedure for modification:-

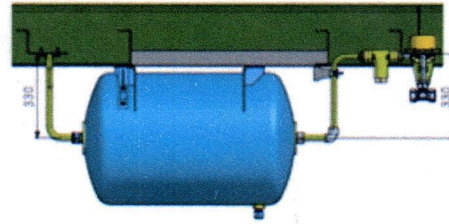
Items to be removed :					
1	Items are to be removed from the coach, reference drawing no. LW11290 alt. 'h'	Item	Description	QPC	Drawing no. /spec.no.
		16	Plate 4x50x50	4	IRS : M41-97
		17	Bracket	4	LW11305
2	Items are to be removed, reference drawing no. LW36243 alt. 'g'.	12	Flange welded joint	1	LW36285
		27	U- clamp for 20 NB pipe	3	CC36922
		38	Hex. Nut M10	6	-----
		39	Spring washer B10	6	-----
		89	Pipe	1	LW36264
Additional/New items for modifications :					
1	Drawing number LW11290 alt 'i'.	17	Bracket	6	LW11316
2	Drawing Number LW36243 alt 'h'.	2	Pipe with flange	1	LW36283
		12	Pipe with flange	1	LW36324
		61	Full Pipe clamp	3	LW63110 item-6
		63	SS Hex. Hd. Screw M6x25 mm	12	IS:1364-92,PT-2,CE
		62	SS Nyloc Nut M6	12	IS:7002-1991
		64	SS Machined washer A6.4	12	IS:2016-1967
		89	Pipe	1	LW36323
		97	Modified pipe	1	LE36332 alt. a
		110	Pipe Nipple (L=113)	1	CC36960
		111	Pipe with flange	1	LW36286 Alt 'a'
		115	Elbow union equal 20 NB	1	CC36929
		116	Flange joint 20 bore (equip. to equip.)	1	ICF/SK3-3-5-004 alt.d
		117	Pipe clamp	3	LW63110 item-8

1. Welding of additional support brackets for pipe clamping to be ensured as per modified drawing no. LW11290 alt. 'i'.
2. Fitted item on coach like Item no.2, 89, 97, 110 and 111 of drawing no. LW36243 alt 'g' to be dismantled and replaced according to with modified drawing LW36243 alt. 'h'.
3. After assembly it should be ensured that there should be no. leakage from pipe joints.

3. After assembly it should be ensured that there should be no leakage from pipe joints.



Existing pipe connections



Modified Connection (raised)

cmf
3/6/24.
for General Manager (Mech)

Encl: Above drawings

To: As per Annexure -I enclosed.

NOTE: Soft copy available at <https://rcf.indianrailways.gov.in/>

Annexure-I for mailing CAI No. CAI/RCF/MECH/LHB/060

The General Manager/Mechanical, Mechanical Branch, HQ Office:

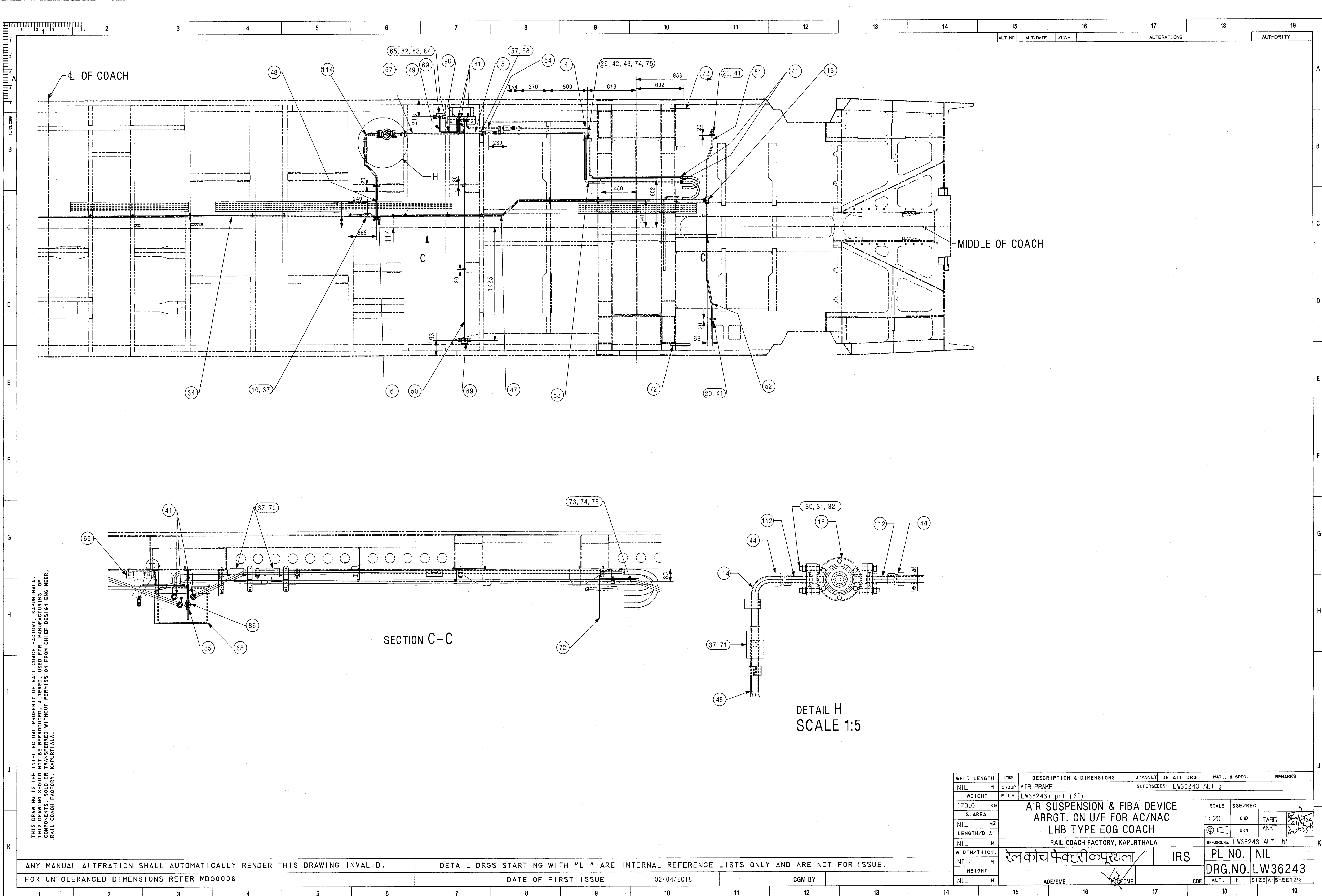
1. Central Railway, Mumbai CST-400001
2. Eastern Railway, Fairlie Place, Kolkata-700001
3. Eastern Railway, Baroda House, New Delhi-110001
4. North Eastern Railway, HQ Office, Gorakhpur-273001
5. Northeast Frontier Railway, Maligaon, Guwahati-781011
6. Southern Railway, NGO Annexe, Park Town, Chennai-600003
7. South Central Railway, Rail Nilayam, Secunderabad-500371
8. South Eastern Railway, Garden Reach, Kolkata-700 043
9. Western Railway, Churchgate, Mumbai-400 020
10. West Central Railway, HQ Office, Jabalpur (MP)-462 001
11. East Central Railway, HQ Office, Hajipur-844 101
12. East Coast Railway. HQ Office, Rail Vihar, B-2, Chandrasekharpur, Bhubaneswar-751 001.
13. South Western Railway, New Zonal Headquarters Office, Gadag Road, Hubli-580 023
14. North Western Railway, HQ office, Jaipur-302 006
15. North Central Railway, HQ office, Allahabad-211 001
16. South East Central Railway, Bilaspur (Chhattisgarh)-495 004

The Chief Workshop Manager, Carriage & Wagon Workshop:

17. Matunga, Central Railway, Mumbai-400 019.
18. Bhopal, West Central Railway, Nishatpura, M.P.-462 001.
19. Lilluah, Eastern Railway, Howrah-711 204.
20. Gorakhpur, North Eastern Railway-273 001.
21. New Bongaigaon , North East Frontier Railway-783 381.
22. Perambur, Southern Railway, Chennai-600 023
23. Golden Rock, Tiruchirapalli-620 004.
24. Ashokapuram, South Western Railway, Mysore South-570 008.
25. Tirupati, South Central Railway-517 506.
26. Hubli, South Westren Railway-580020
27. Mancheswar, East Coast Railway, Bhubaneswar-751 017.
28. Kharagpur, South Eastern Railway-721 301.
29. Lower Parel, N.M.Joshi Marg, Western Railway, Mumbai-400 013.
30. Jagadhari, Northern Railway-135 003.
31. Alambagh, Northern Railway, Lucknow-226 005.
32. Lallaguda, South Central Railway, Secunderabad-500 017.
33. Western Railway, Ajmer, Rajasthan.
34. North East Frontier Railway, Dibrugarh, Assam-786 001

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2. EDME (Coaching), Railway Board, New Delhi-110001.
3. Director General/Carriage, RDSO, Manak Nagar, Lucknow-226 011.



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DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
DATE OF FIRST ISSUE 02/04/2018 CGM BY

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP AIR BRAKE				
WEIGHT	FILE	LW36243h.prt (3D)				
120.0	KG					
S.AREA						
NIL	M2					
LENGTH/DIA						
NIL	M					
WIDTH/THICK.						
NIL	M					
HEIGHT						
NIL	M					
ADE/SME						
CDP/CME						
CDE	ALT.	h	SIZE	A1	SHEET	2/3

SCALE	SSE/REC	
1:20	CHD	TARG
	DRN	ANKT
REF.DRG.No.	LW36243	ALT 'b'
PL NO.	NIL	
DRG.NO.	LW36243	

RAIL COACH FACTORY, KAPURTHALA

IRS

रेलकोच फेक्टरी कपूरथला

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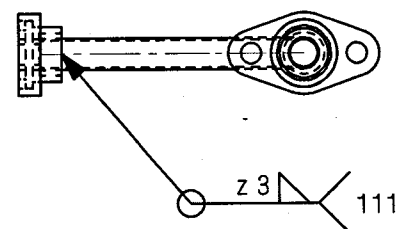
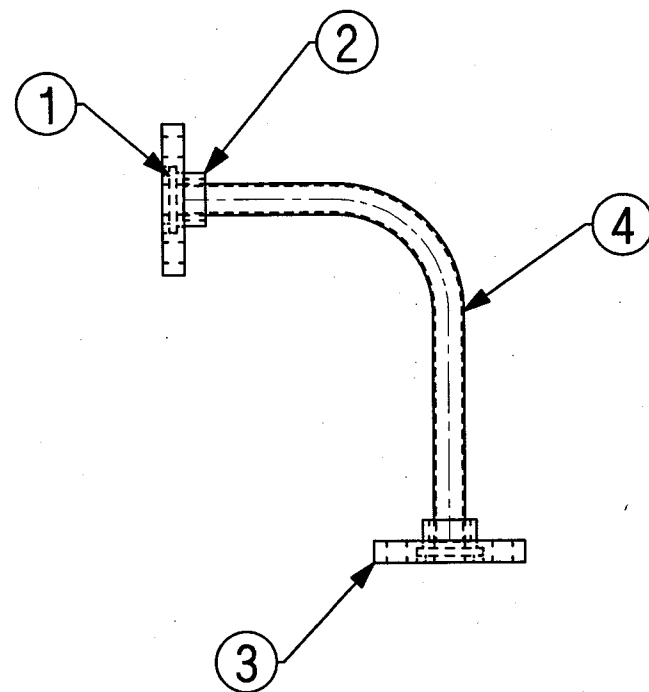
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आकड़िया
में
ENTERED
प्रविष्टियां
INTO
DATA BASE
17 APR 2021

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RAIL COACH FACTORY, KAPURTHALA.

4	PIPE 20 BORE	1	LW36164	NIL	NIL
3	FLANGE	2	CC36674	NIL	NIL
2	SOCKET	2	CC36675	NIL	NIL
1	SEALING RING	2	CC35318	NIL	NIL

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	AIR BRAKE	SUPERSEDES: NIL		
WEIGHT	FILE	//LW36283.prt(3D)				
0.9769 KG						
S.AREA						
NIL	M ²					
LENGTH / -DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

FLANGE WELDED JOINT
(PIPE TO EQUIPMENT FOR 20 NB PIPE)

RAIL COACH FACTORY, KAPURTHALA

रेल कोच फैक्टरी कपूरथला

IRS

SCALE	SSE/REC	REF.DRG.NO.	PL NO.	DRG.NO.	ALT.	SIZE	SHEET
1: 5	CHD	cc36478.prt alt-a	00000000	LW36283	NIL	A3	1/1
	DRN						

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 01/04/2021

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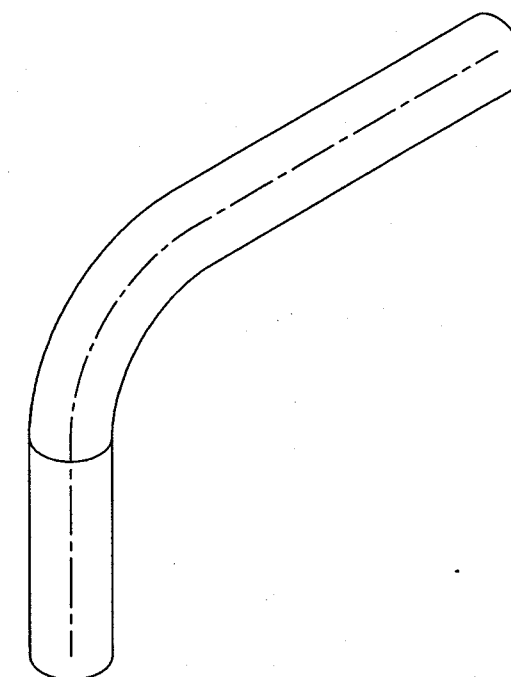
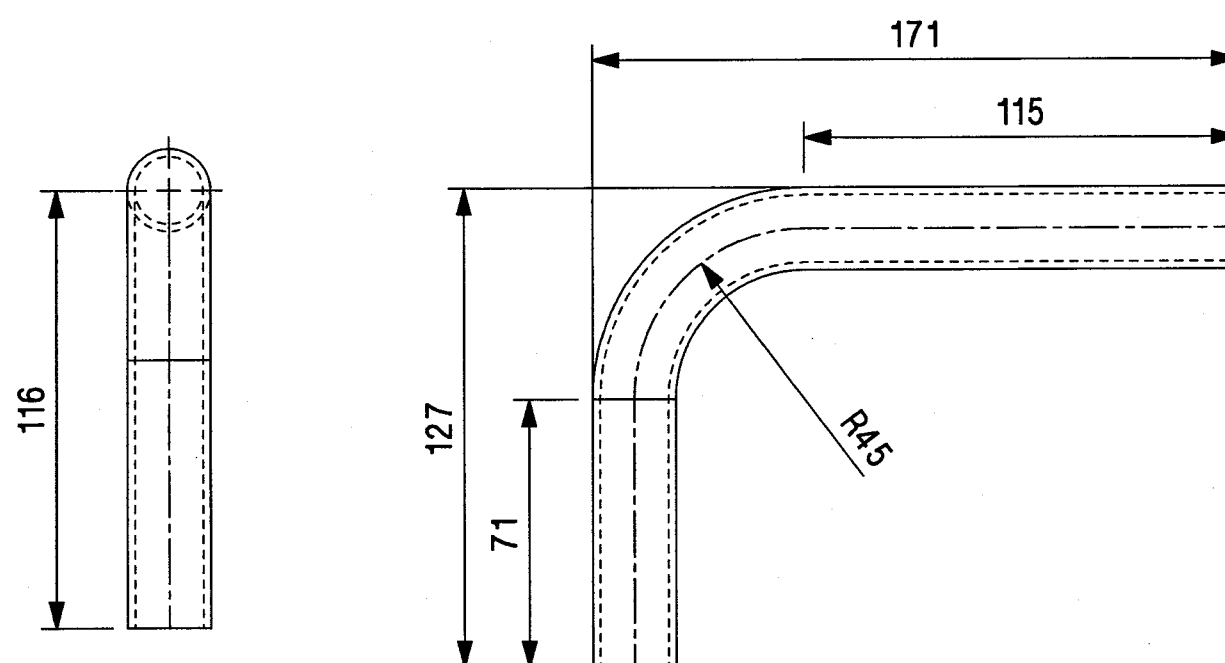
ADP/SME

DY.CME

N. R

CDE

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL



ISO VIEW

NIL	TUBE 22 MM (OD) X 257 MM	NIL	NIL	DIN2391 X5Cr Ni1810	DIN 17456 NBK3. 1BGr 1. 4301
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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS		
NIL	M	GROUP	AIR BRAKE		SUPERSEDES: NIL			
WEIGHT	FILE	C:\LW36323.prt (3D)						
0.2528	KG	TUBE 22 MM (OD)			SCALE	SSE/REG		
S.AREA					1: 2	CHD	TARG	31
NIL	M ²					DRN	ASIS	As is
LENGTH / -DIA								
0.257	M	RAIL COACH FACTORY, KAPURTHALA			REF.DRG.NO.	NIL		
WIDTH / THICK		रेल कोच फैक्टरी कपूरथला			PL NO.	NIL		
NIL	M	IRS			DRG.NO.	LW36323		
HEIGHT					CDE	ALT. NIL SIZE A3 SHEET 1/1		
NIL	M				ADE/SME	DATE		

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008	DATE OF FIRST ISSUE	24/05/2024
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CGM BY

ADE/SME

~~DN/CME~~

CDE

ALT.	NIL
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SIZE	A3	SHEET	1 / 1
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			3	4	5	6	7	8	9	10	11	12	13
									ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
									NIL	NIL	NIL	NIL	NIL

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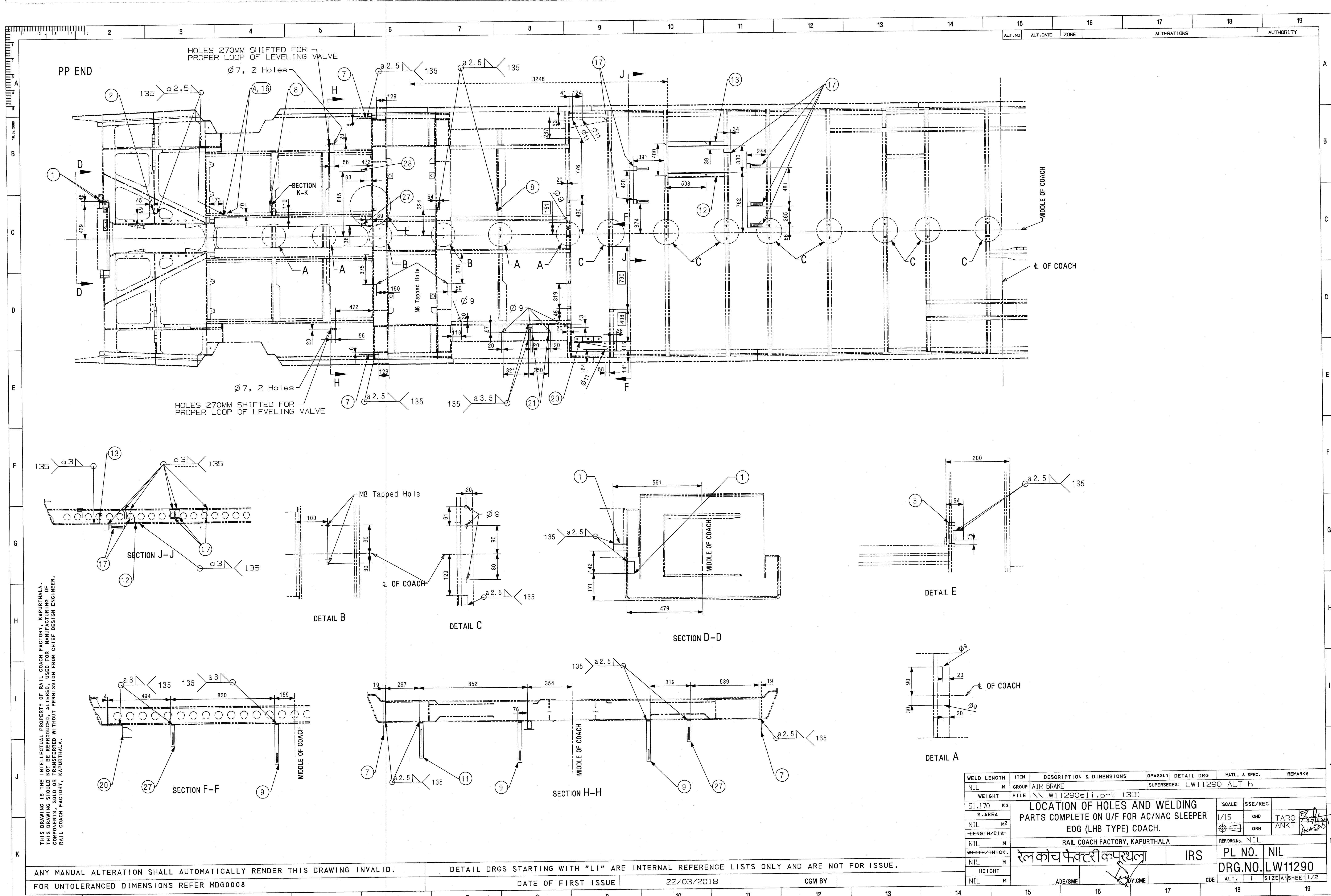
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FOR UNTOLERANCED DIMENSIONS REFER MDG0008	DATE OF FIRST ISSUE	27/05/2024	CGM BY

1	2	3	4	5	6	7	8	9	10	11	12	13
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WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP	AIR BRAKE	SUPERSEDES: NIL		
WEIGHT	FILE	//LW36324.prt(3D)				
0.750	KG					
S.AREA						
NIL	M2					
LENGTH / DIA						
NIL	M					
WIDTH / THICK						
NIL	M					
HEIGHT						
NIL	M					

PIPE WITH FLANGE (PIPE TO EQUIPMENT FOR 20 NB PIPE)				SCALE	SSE/REC	
				1: 5	CHD	TARG
					DRN	ANKT
RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.		
रेल कोच फैक्टरी कपूरथला				IRS	PL NO. 00000000	
					DRG.NO. LW36324	
ADE/SME				N. R	CDE	ALT. NIL
					SIZE A3 SHEET 1/1	

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DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.
DATE OF FIRST ISSUE 22/03/2018 CGM BY

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	QPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	M	GROUP AIR BRAKE				
WEIGHT	FILE	\\LW11290sli.prt (3D)				
SI.170	KG					
S.AREA						
NIL	M ²					
LENGTH/DIA						
NIL	M					
WIDTH/THICK.						
NIL	M					
HEIGHT						
NIL	M					
	ADE/SME	BY.CME				

SCALE	SSE/REC	TARG	ANKT
1/15	CHD		
REF.DRG.No.	NIL	PL NO.	NIL
		DRG.NO.	LW11290
ALT.	i	SIZE	A1/SHEET 1/2

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

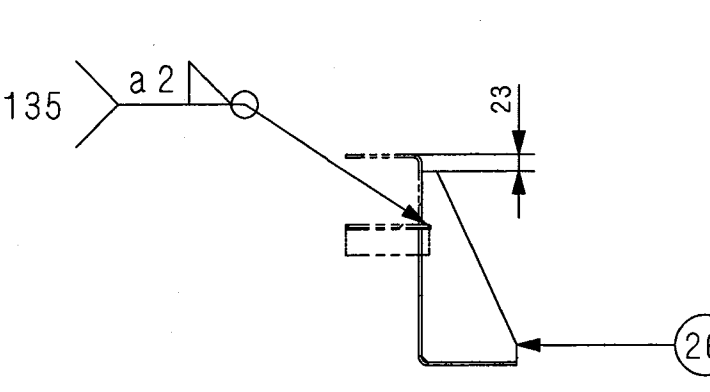
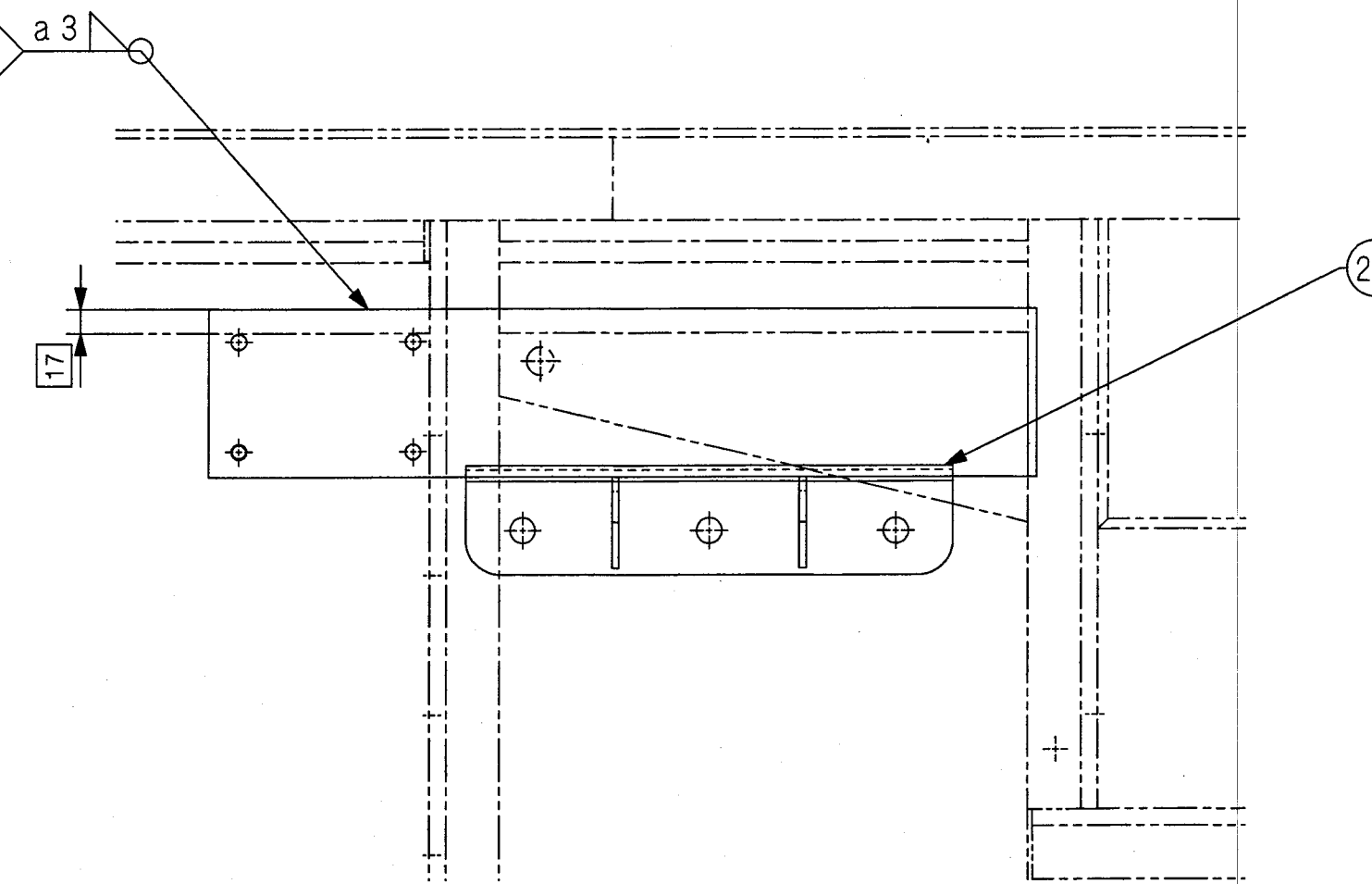
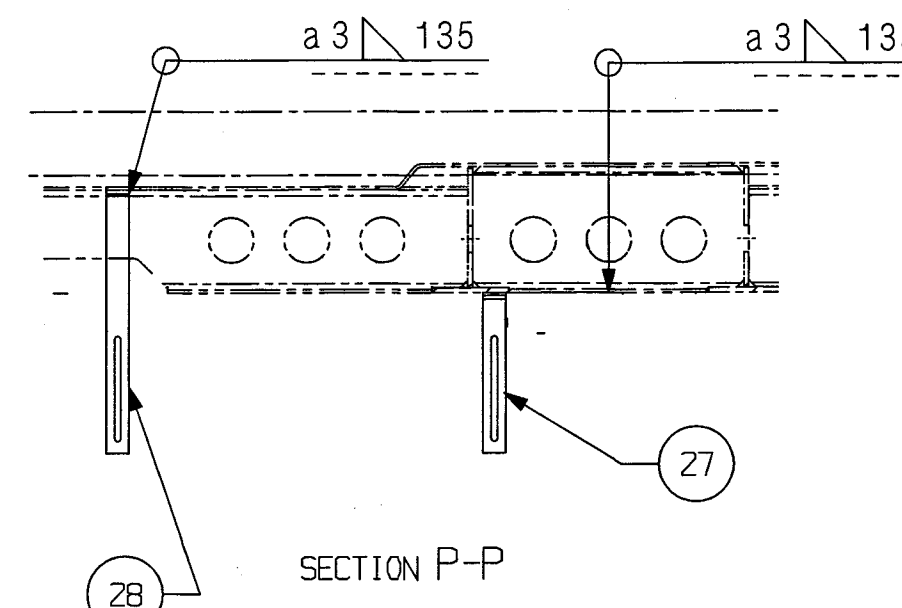
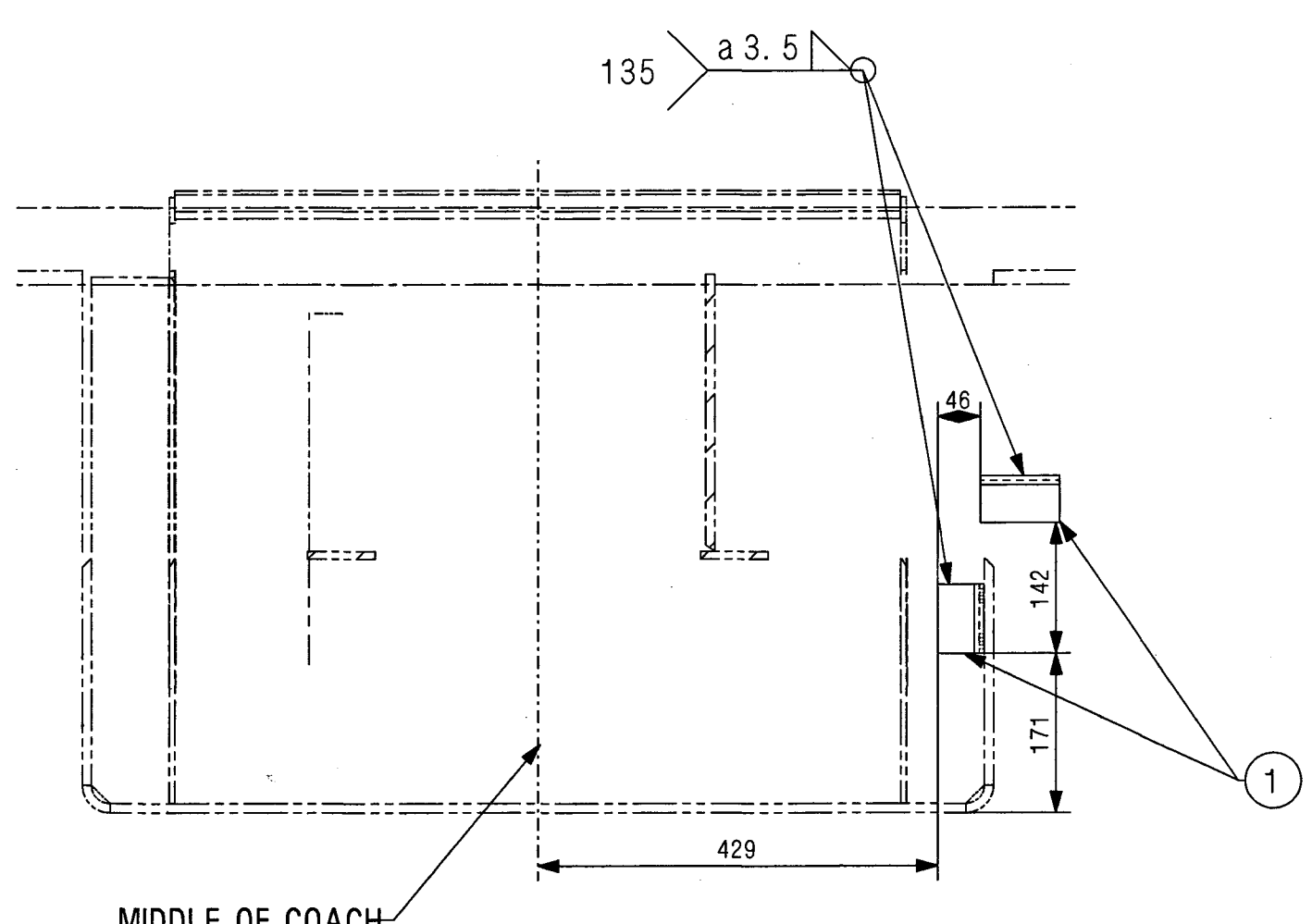
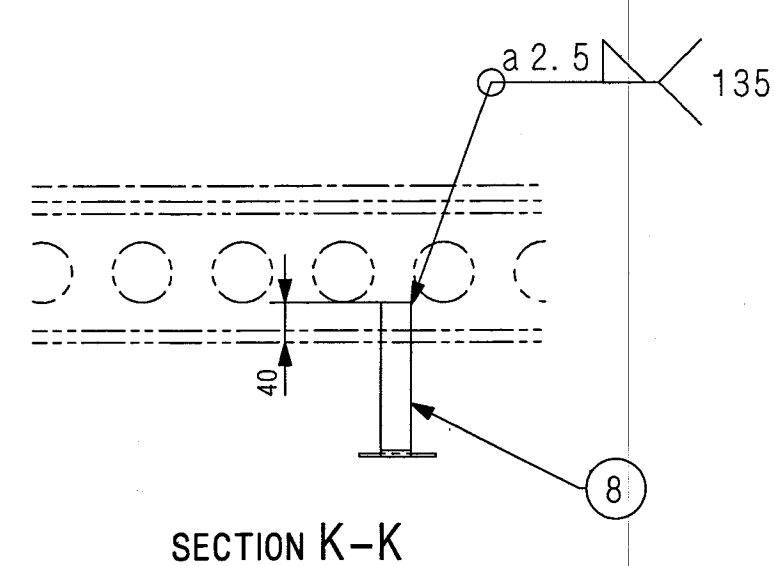
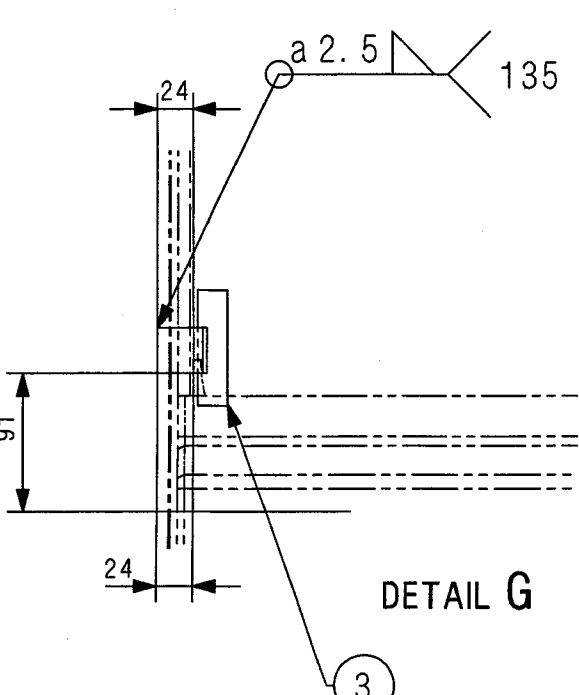
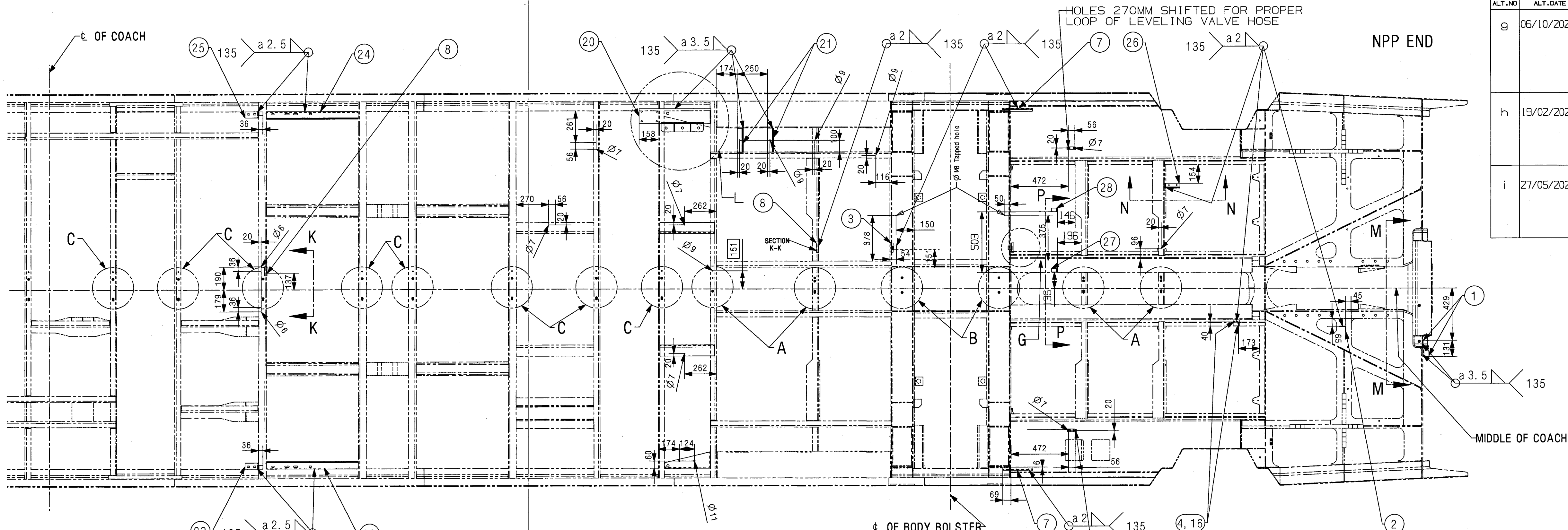
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DATE OF FIRST ISSUE

22/03/2018

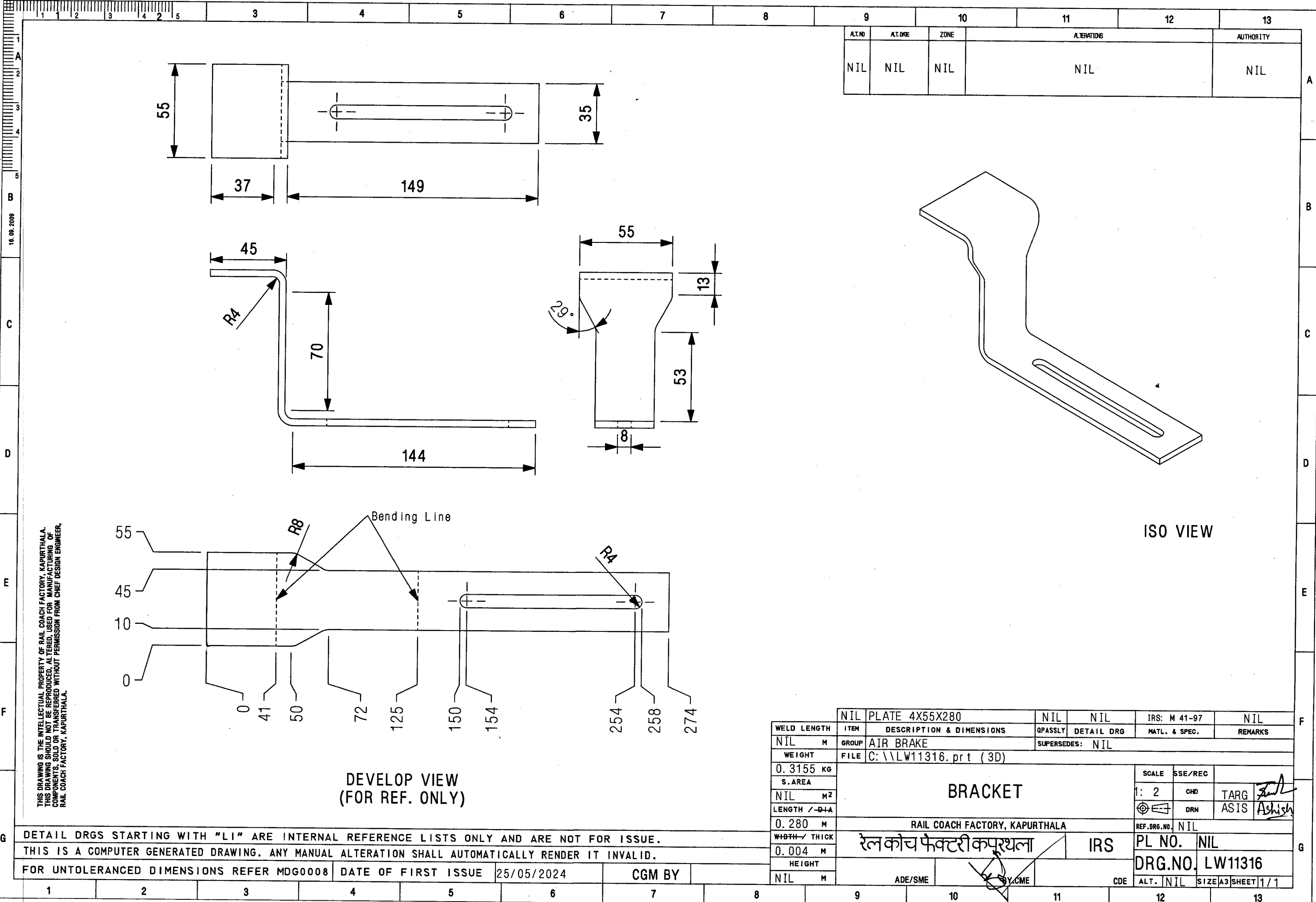
CGM BY

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS		QPASSLY	DETAIL DRG	MATL. & SPEC.		REMARKS		
NIL		M	GROUP	AIR BRAKE		SUPERSEDES: LW11290 ALT h					
WEIGHT		FILE		\\LW11290s2i.prt (3D)							
51.170		KG		LOCATION OF HOLES AND WELDING				SCALE		SSE/REC	
S.AREA		PARTS COMPLETE ON U/F FOR AC/NAC SLEEPER				1/15		CHD		TARG	
NIL		M ²		EOG (LHB TYPE) COACH.				DRN		ANKT	
LENGTH/B+A											
NIL		M		RAIL COACH FACTORY, KAPURTHALA				REF.DRG.No.		NIL	
WIDTH/TH+OK.		रेल कोच फैक्टरी कपूरथला				IRS		PL NO.		NIL	
NIL								DRG.No.		LW11290	
HEIGHT								ALT.		i	
NIL		M		ADE/SME		CME		CDE		SIZE/A \$HEET/2/2	



28	BRACKET LONG	2	LW11308	NIL	NIL
27	BRACKET SHORT	4	LW11307	NIL	NIL
26	BRACKET COMPLETE	1	3 10113.0. 03.095.028	NIL	NIL
25	BRACKET	1	LW11298	NIL	NIL
24	INDICATOR BRACKET	1	LW11297	NIL	NIL
23	BRACKET	1	LW11300	NIL	NIL
22	INDICATOR BRACKET	1	LW11299	NIL	NIL
21	ANGLE 6X50X50 L=198	4	NIL	IRS:M41-97	NIL
20	BRACKET COMPLETE	2	LW11301	NIL	NIL
19	BRACKET	1	LW36176	NIL	NIL
18	BRACKET	4	LW11304	NIL	NIL
17	BRACKET	6	LW11316	NIL	NIL
16	PLATE 4X50X50	2	NIL	IRS:M41-97	NIL
15	BRACKET	2	ETH1133	NIL	NIL
14	ANGLE 5X30X45 L=454	2	NIL	IRS:M41-97	NIL
13	BRACKET	1	LW36281	NIL	NIL
12	BRACKET	1	LW36174	NIL	NIL
11	BRACKET	1	LA11111	NIL	NIL
10	BRACKET	2	LG11354	NIL	NIL
9	BRACKET	3	LG11353	NIL	NIL
8	BRACKET	4	LW11294	NIL	NIL
7	BRACKET	4	LE11376	NIL	NIL
6	BRACKET	2	LW11295	NIL	NIL
5	BRACKET	1	LW11292	NIL	NIL
4	BRACKET	2	LW11291	NIL	NIL
3	BRACKET	4	LW11293	NIL	NIL
2	BRACKET	2	LD36389	NIL	NIL
1	BRACKET	4	LW36232	NIL	NIL

ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
g	06/10/2021	ALL	1.ITEM NO. 17 RESTORED 2.ITEM NO. 10 & 18 ARE DELETED 3.QPC OF ITEM NO 17 &27 WAS 1&2 RESPECTIVELY	DY CME/D2
h	19/02/2024	ALL	QTY OF ITEM NO. 9 WAS 2.	DY CME/D2
i	27/05/2024	ALL	1. QTY OF ITEM NO. 16 WAS 6. 2. DETAIL DRG OF ITEM NO. 17 WAS LW11305 & QTY WAS 4.	DY CME/D/S&B



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FOR UNTOLERANCED DIMENSIONS REFER MDG0008 DATE OF FIRST ISSUE 25/05/2024 CGM BY

NIL		PLATE 4X55X280		NIL		NIL		IRS: M 41-97		NIL									
WELD LENGTH		ITEM		DESCRIPTION & DIMENSIONS				QPASSLY		DETAIL DRG		MATL. & SPEC.		REMARKS					
NIL		M		GROUP		AIR BRAKE				SUPERSEDES: NIL									
WEIGHT		FILE		C:\\\\LW11316.prt (3D)															
0.3155		KG		BRACKET								SCALE		SSE/REC					
S.AREA												1: 2		CHD		TARG		Full	
NIL		M ²												DRN		ASIS		Ashis	
LENGTH /-B+A												REF.DRG.NO.		NIL					
0.280		M		RAIL COACH FACTORY, KAPURTHALA															
WIDTH / THICK				रेल कोच फेक्टरी कपूरथला						IRS		PL NO.		NIL					
0.004		M										DRG.NO.		LW11316					
HEIGHT												ADE/SME		BY.CME		CDE		ALT.	
NIL		M								SIZE		A3		SHEET 1/1					

										9		10		11		12		13	
										ALT. NO		ALT. DATE		ZONE		ALTERATIONS		AUTHORITY	
										NIL		NIL		NIL		NIL		NIL	

ISO 7/1 R 3/4"
(IS : 554-85)

20

20

L

WELD LENGTH		ITEM		DESCRIPTION & DIMENSIONS		OPASSLY		DETAIL DRG		MATL. & SPEC.		REMARKS	
NIL		M		GROUP		AIR BRAKE		SUPERSEDES: NIL					
WEIGHT		FILE		/users1/bogl/air_brake/cc36960.prt									
NIL		KG		PIPE 20 MM (3/4")NB		SCALE		SSE/REC		Gr. TP304 (ERW)			
S. AREA		NIL		BOTH SIDE THREADED		1:1		CHD		DRN			
LENGTH / DIA		NIL		RAIL COACH FACTORY, KAPURTHALA		REF. DRG. NO.		NIL		PL NO.		00883311	
WIDTH / THICK		NIL		INDIAN RAILWAYS STANDARD		DRG. NO.		CC36960		ALT. INIL		SIZE A3 SHEET 1/1	
HEIGHT		NIL		M		DY.CME		NR		CDE			
NIL		M		M		DY.CME		NR		CDE			

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

DATE OF FIRST ISSUE 05/05/2003

CGM BY

													ALT. NO		ALT. DATE		ZONE		ALTERATIONS				AUTHORITY	
													NIL		NIL		NIL		NIL				NIL	

ITEM	d1	b	d2	h	L1	L2	r	s	Length	Weight/1000 piece in Kg	To be screwed with	To be used with outer dia. of tube
1	7			5	44	28			48	8.5		5.5 to 7
2	9			6	48	32			53	9.4		above 7 to 9
3	13	16	5.5	9	52	36		1.5	61	10.9	M 5	9.5 to 13
4	15.5			12	56	40			70	12.6		above 13 to 15.5
5	19			15	60	44	2.5		78	14.1		above 15.5 to 19
6	23			19	76	56			100	30.3		20 to 23
7	26	20	6.6	22	78	58		2	107	32.5	M 6	above 23 to 26
8	28.5			24	84	64			116	35.4		above 26 to 28.5
9	31			27					121	36.9		above 28.5 to 31
10	36			32	104	80			147	83.6		33 to 36
11	39			34	108	84			152	86.5	M 8	above 36 to 39
12	43	25	9	38	112	88			164	93.6		above 39 to 43
13	46			41	114				170	97.1		above 43 to 46
14	49			44	118		4		179	122		above 46 to 49
15	58			52				3	211	144	M 10	53 to 58
16	61	30	11	56	138	110			218	150		above 58 to 61

NOTE:-

1. ALL DIMENSIONS ARE IN MM.

2. MAT. SPECIFICATION SHALL BE AS PER IS: 6911-92 GRADE-304 SI.

3. ALL SHARP EDGES SHOULD BE GROUNDED PROPERLY.

4. ITEMS REQUIRED TO BE DESIGNATED AS : LW63110, ALT.'NIL' ITEM-8, FOR TUBE OF DIA. 28.5 MM.

WELD LENGTH		ITEM	DESCRIPTION & DIMENSIONS		OPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL		M	GROUP	LAVTORY AND ITS FITTINGS		SUPERSEDES: NIL		
WEIGHT		FILE	/users1/b/1hb/1w/1w63110.prt					
NIL		KG	CLAMP					
S. AREA		2: 1						
NIL		M2	CHD					
LENGTH / DIA		DRN						
NIL		M	RAIL COACH FACTORY, KAPURTHALA					
WIDTH / THICK		REF.DRG.No. NIL						
NIL		M	INDIAN RAILWAYS STANDARD					
HEIGHT		PL NO. 00207937						
NIL		M	DRG. NO. LW63110					
		ALT. NIL SIZE A2 SHEET 1/1						

DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008

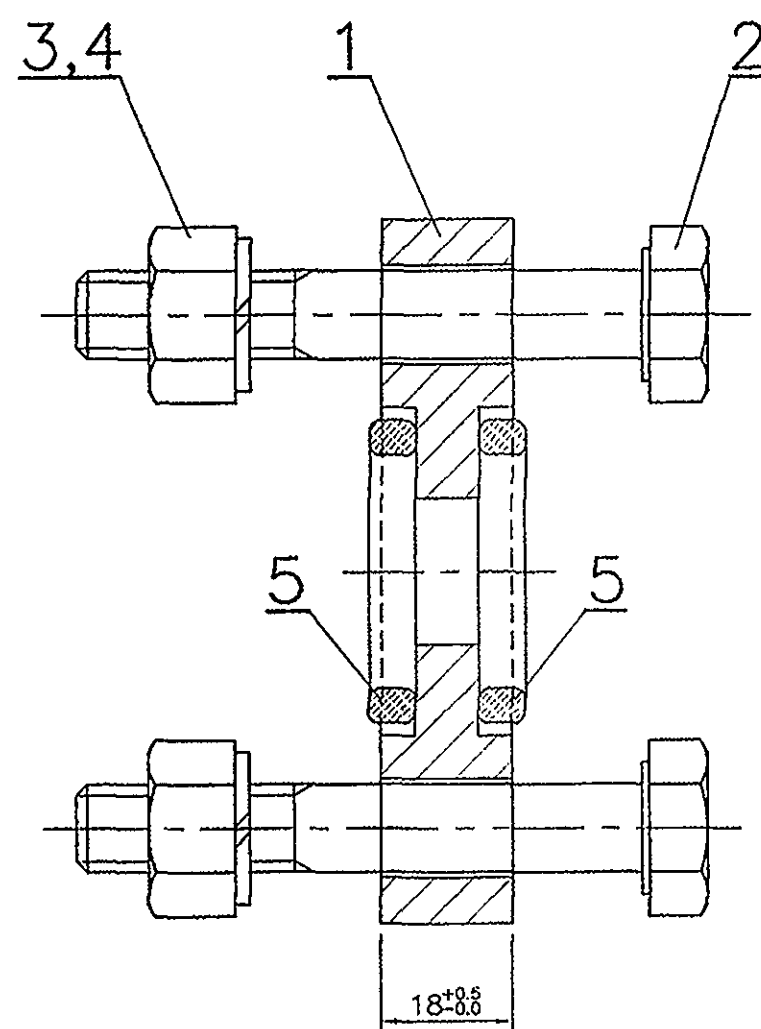
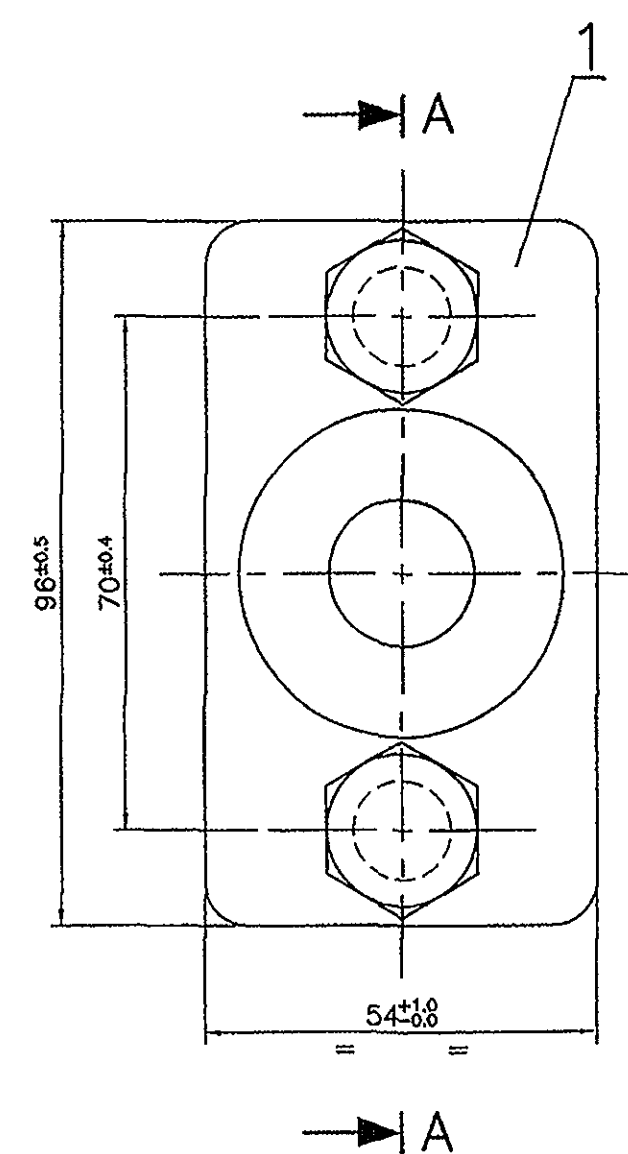
DATE OF FIRST ISSUE		18/10/2001	
FROZEN			

1		2		3		4		5		6		7		8		9		10		11		12		13	
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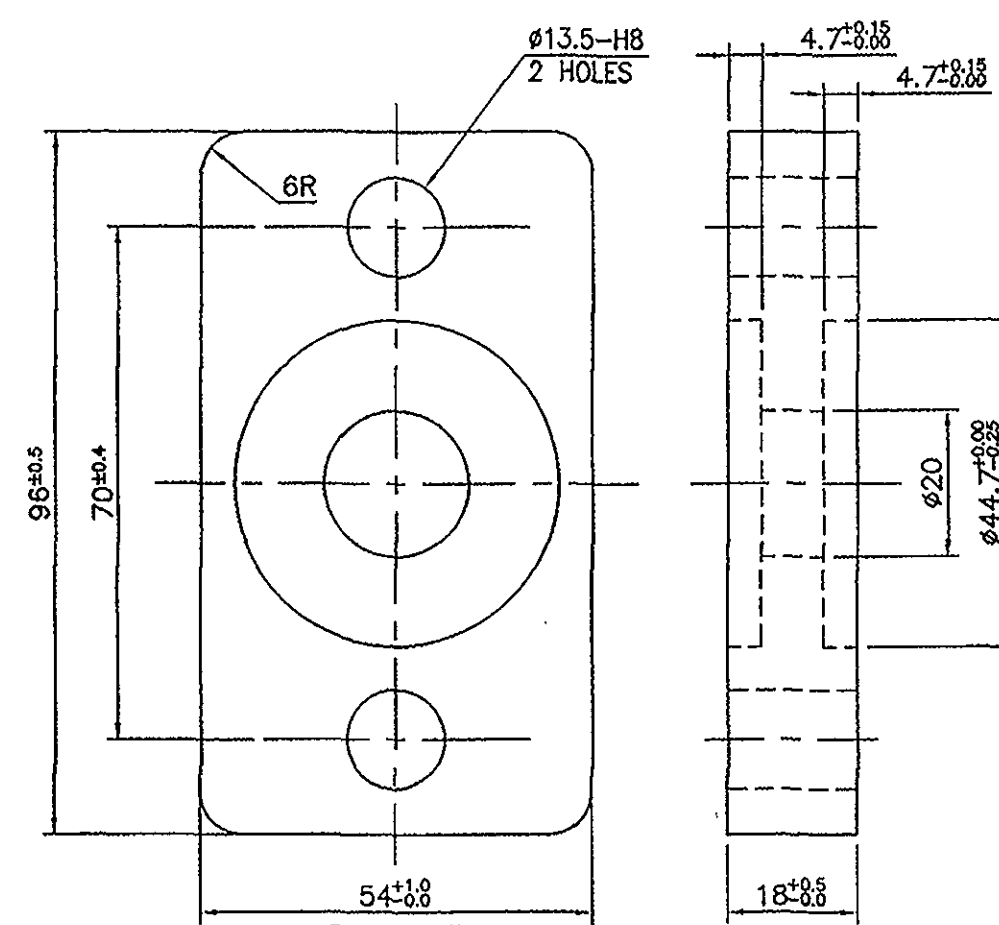
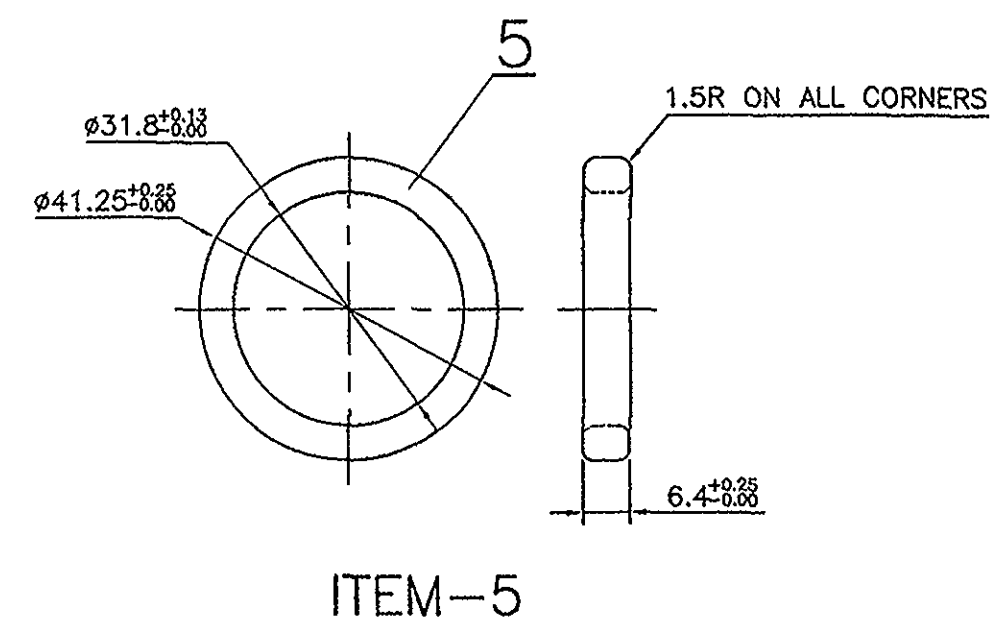
ICF/SK₃-3-5-004

▽ ROUGH MACHINED	① ROUGH CLEANING
▽▽ FINISH MACHINED	
▽▽▽ FINE FINISH MACHINED	

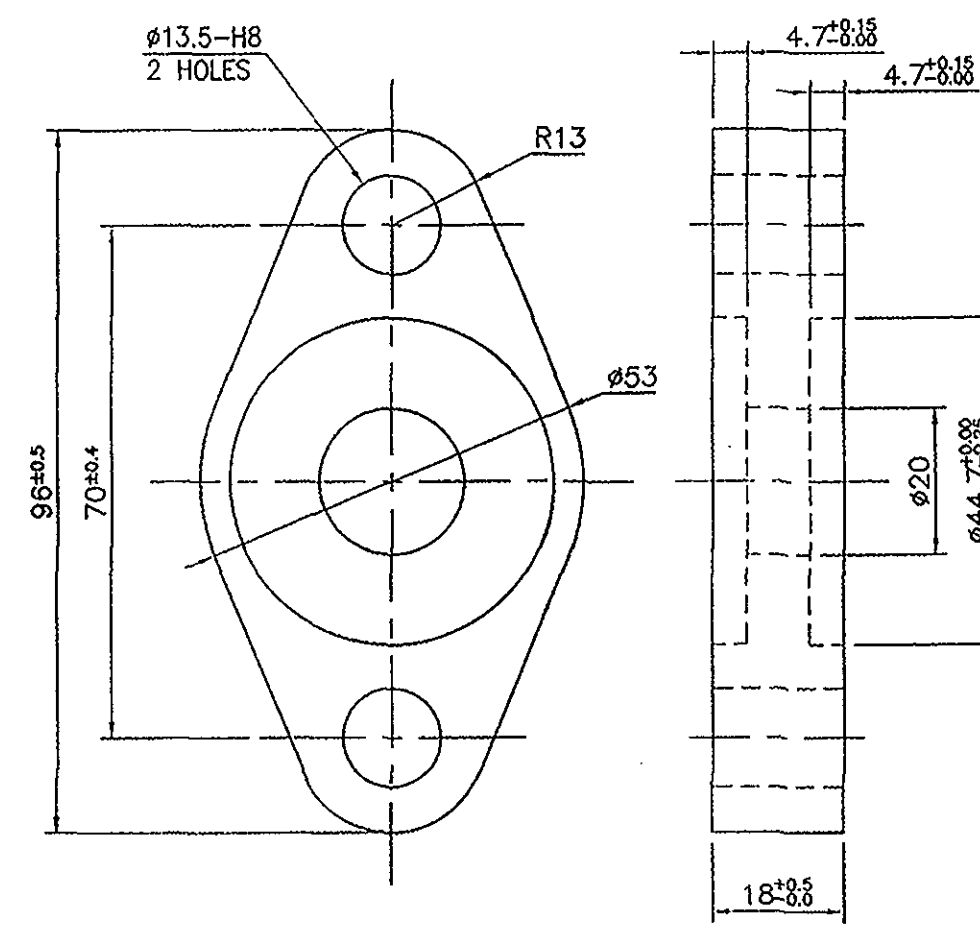
ALTERATION	
①	09/2010 DRG REVISED. Sd/- SSE/D
②	01/2011 NOTE-7 DELETED & NOTE-8 ADDED. Sd/- SSE/D
③	11/2011 IN ITEM-2 DESCRIPTION & DIMENSION ALTERED. FOR ITEMS 3 & 4 QTY ALTERED FROM 2 TO 4. REF:FMM/F004/37/45 Dt-24-10-2011 Sd/- SSE/D
④	08/2013 ALTERNATE DESIGN FOR ITEM-1 AND NOTE-9&10 ADDED. Sd/- SSE/D



SECTION-AA



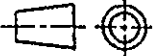
ITEM-1



ALTERNATE DESIGN FOR ITEM-1

NOTE :-

- THIS FITTING SHALL CONFIRM TO ICF/MD/SPEC.-166 (LATEST REVISION)
- REMOVE ALL BURRS AND SHARP CORNERS.
- ISO 7/1 & ISO 228/1 FOR TAPER AND PARALLEL THREADS RESPECTIVELY.
- ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED.
- QTY. SHALL BE AS PER RELEVANT ASSEMBLY DRAWINGS.
- ITEMS SHALL BE PROCURED FROM APPROVED SOURCES ONLY.
- GALVANIZING TO SPECN- IS:1573-86-TO-SERVICE-GRADE No.2-OF-TAB-2-
- ALTERNATIVELY TEFLON SHALL ALSO BE USED.
- REFERENCE-RDSO DRG. No. SK-85187.
- ALTERNATE DESIGN FOR ITEM-1 IS ALSO ACCEPTABLE.

				2	GASKET	5	IRS:R-48-88 GRADE-E		*	
				4	S.S SPRING WASHER M12	4	IS:3063-94 TAB-1A,TYPE-B	AISI-304		
				2	S.S HEX. NUT M12	3	IS:1364-02,4 PART-3,TAB-1	IS:1367-84 PART-14,Gr-A2-70		
				2	S.S HEX. HD. SCREW M12 x 110	2	IS:1363-02 PART-2	IS:1367-84 PART-14,Gr-A2-70		
				1	FLANGE 18 x 53 x 96	1	ICF/MD/SPEC.-166			
No. OFF					DESCRIPTION & DIMENSIONS	ITEM	REF. DRG.	MATL. & SPECN.	WEIGHT/UNIT	REMARKS
V	IV	III	II	I	GROUP: 3-5, BRAKE PIPING				SUPERSEDED BY: SUPERSEDES:ICF/SK ₃ -3-5-004 Alt.c/-	
					FLANGE JOINT 20 BORE (EQPT. TO EQPT.)				SCALE 1:1 SSE/D CHD ALT DRN J. GUNASEKARAN V. K. Venkateswaraman	
					CAD FILE: C:\MD-CAD\329\3-5\004-SD00.DWG				ALT. a b c d	
					DATA CODE No. 329		INDIAN RAILWAY STANDARDS		SHEET 1 OF 1	
									INTEGRAL COACH FACTORY CHENNAI-38	
									ICF/SK ₃ -3-5-004	

