

RAIL COACH FACTORY, KAPURTHALA
(Coach Alteration Instruction)

CAI/RCF/MECH/R-SS/003

MD46251

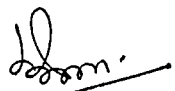
Date: 06.05.06

1. **Description:** Provision of Additional Drain Hole in FRP Shower Room for effective drainage in RCF Stainless Steel FAC coach (Rajdhani Rake).

2. **Drawing No:**

S. No.	Description	Drawing No. & alt
1	Drain in Shower Room	MI004371 alt 'a'
2	Drainage piping arrangement	MI004693 alt 'nil'
3	Location of drain hole in under frame	LE11284 alt 'b' and LE11285 alt 'b'

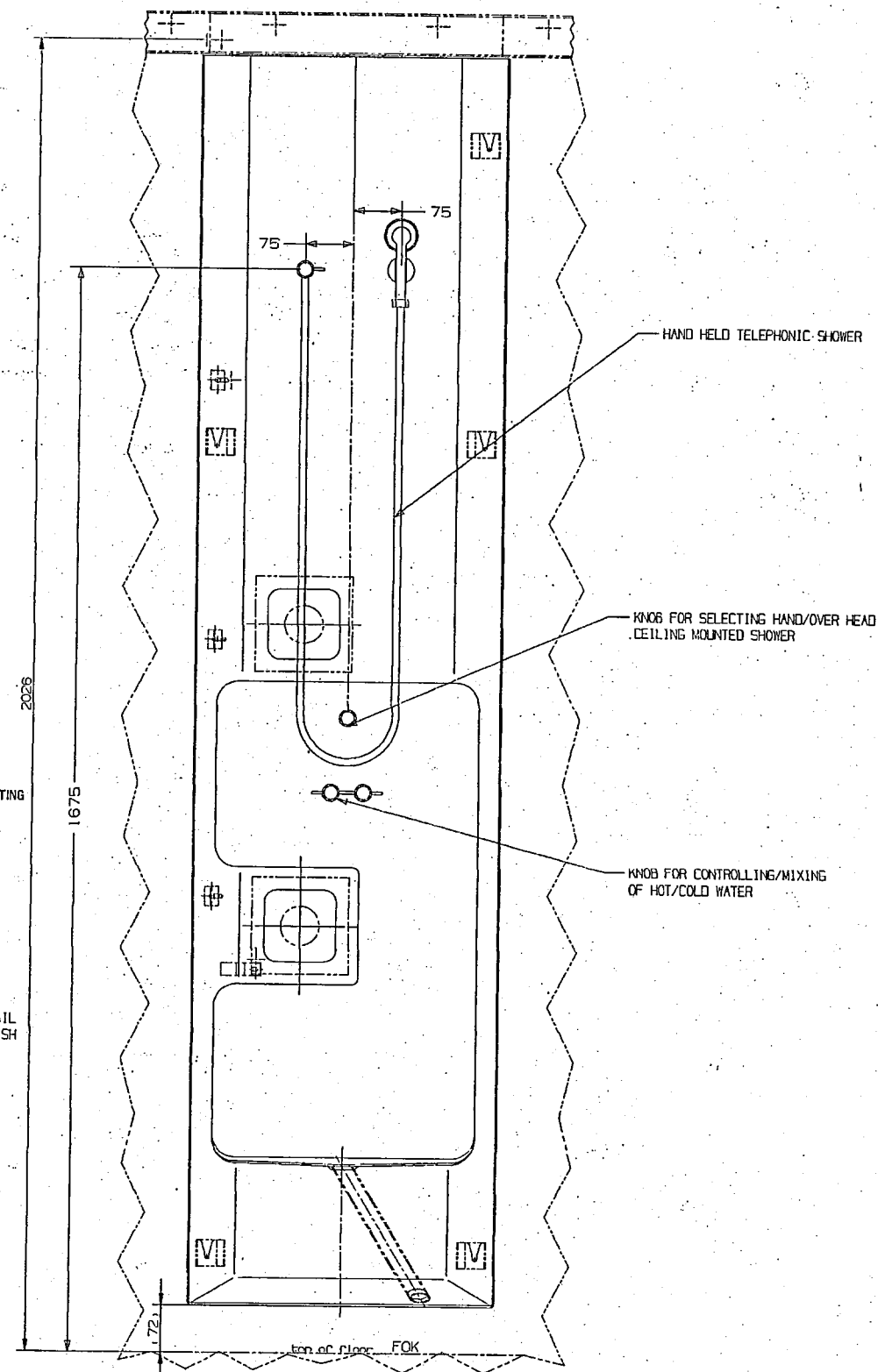
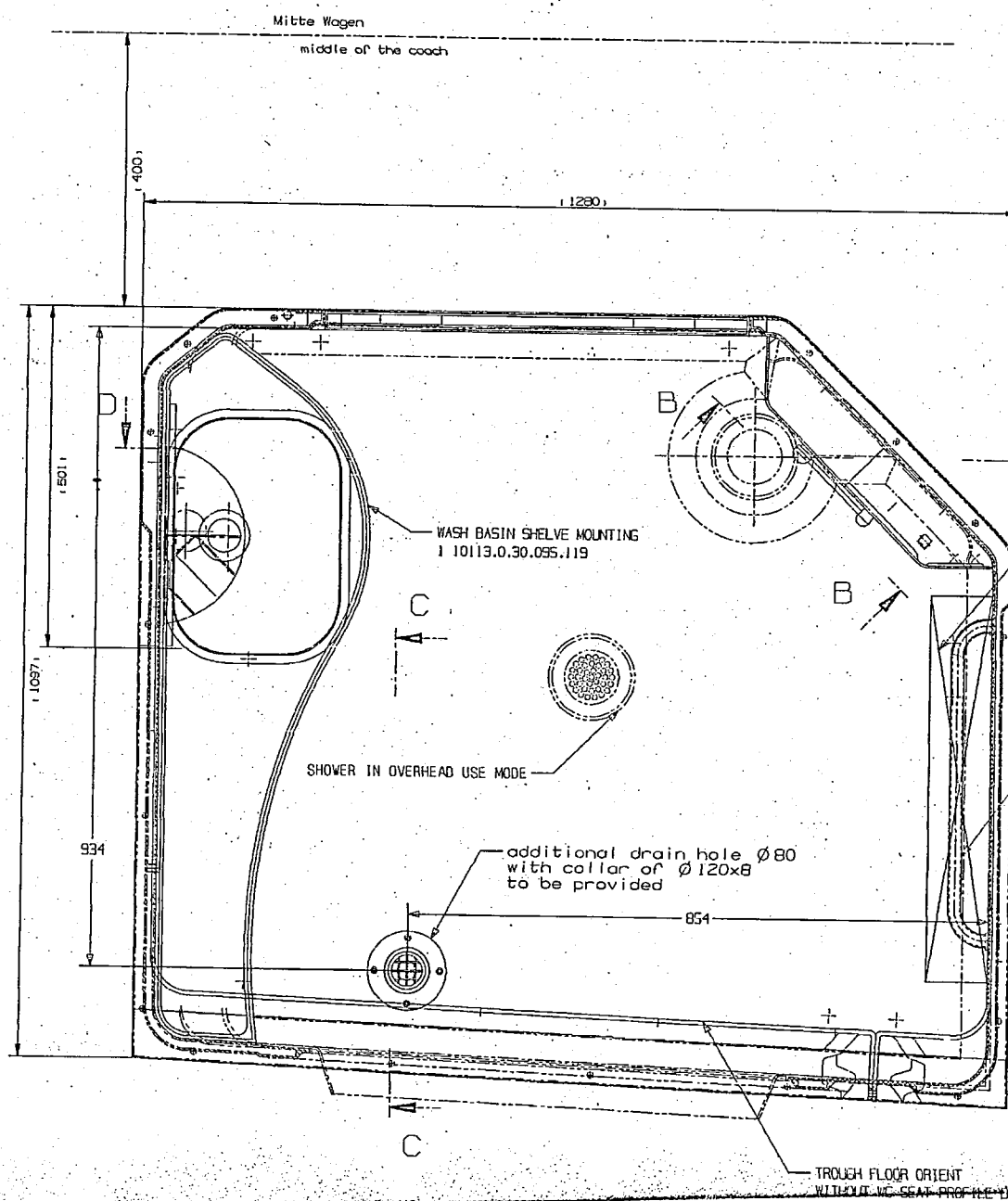
3. **Alteration:** To make the drainage system effective in FRP Shower Room, additional drain hole and drainage piping arrangement has been incorporated.
4. **Coach type:** RCF Stainless Steel FAC coach.
5. **To be carried out:** During IOH/POH or unscheduled repair in sick line.
6. **Special Instructions:**
- Cut a through hole of $\varnothing$ 80mm with collar of $\varnothing$ 120x8mm for additional drain hole in FRP Lavatory module as per location given in drawing No. MI004694.
 - Cut a through hole of $\varnothing$ 90mm in the head stock sheet as per location given in drawing No. **LE11284 alt 'b' and LE11285 alt 'b'.**
 - Mount drain and drain pipe as per drawing no. MI004693 with adhesive Sika252 or Teroson 92 or Totalseal 42 or 3M55560
 - To eliminate water seepage, proper finish to be given to the collar made to match with the floor, by using a suitable FRP compound.
 - Use electrode 1.4370/MAG for welding of steel parts


For General Manager (Mech.)

Encls:

MI004371 alt 'a'
MI004693 alt 'nil'
LE11284 alt 'b'
LE11285 alt 'b'

Chief Mechanical Engineer/Western Railway
Chief Mechanical Engineer/Eastern Railway



24 MAR 2006

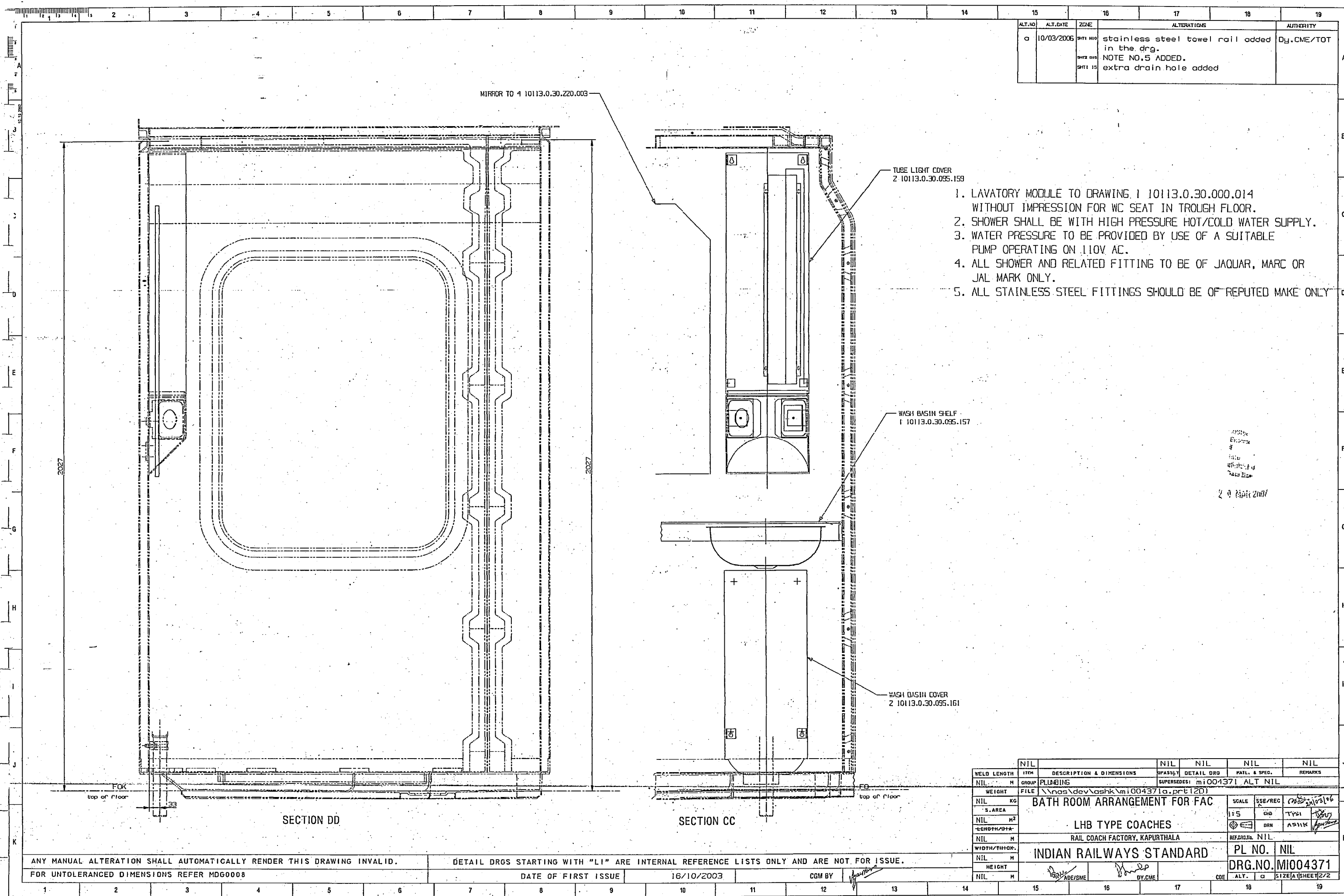
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.
FOR UNTOLERANCED DIMENSIONS REFER MDG0008

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

DATE OF FIRST ISSUE 16/10/2003

CGM BY

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	SCALE	SSE/REC	DATE	REMARKS
NIL	M	GROUP PLUMBING	1:5	CHD	21/03/06	
WEIGHT	FILE	\\nas\dev\ashk\m1004371a.prt (20)	DRN	ASHK		
NIL	KG	BATH ROOM ARRANGEMENT FOR FAC				
S.AREA		LHB TYPE COACHES				
NIL	M ²	RAIL COACH FACTORY, KAPURTHALA				
LENGTH/ST		INDIAN RAILWAYS STANDARD				
NIL	M	REF.DWG. NIL				
WIDTH/THICK.		PL NO. NIL				
NIL	M	DRG.NO. M1004371				
HEIGHT		ALT. 0				
NIL	M	SIZE A1 SHEET 1/2				



ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
a	10/03/2006	SH1 H10 SH2 D15 SH11 15	stainless steel towel rail added in the drg. NOTE NO.5 ADDED. extra drain hole added	Dy.CME/TOT

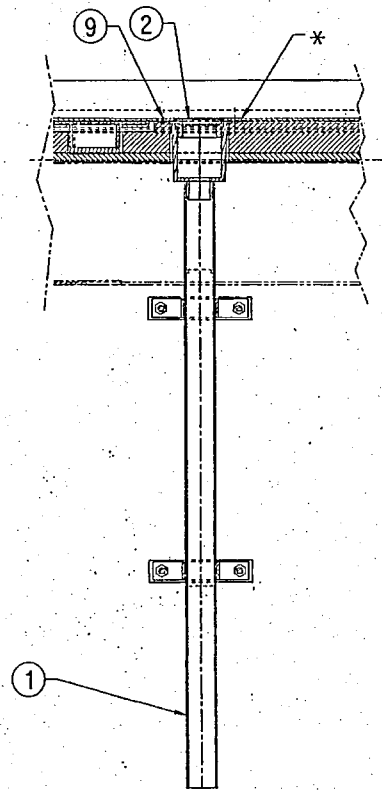
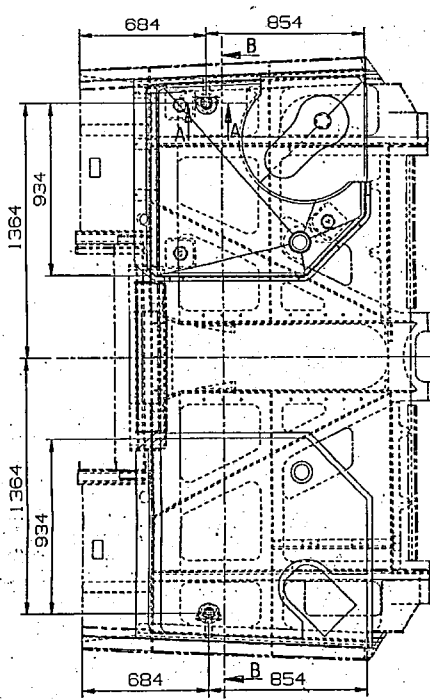
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS
NIL	M	GROUP PLUMBING	NIL	M	GROUP PLUMBING	NIL	M	GROUP PLUMBING	NIL	M	GROUP PLUMBING
WEIGHT	FILE	\\nas\dev\ashk\m\004371a.prt (20)	WEIGHT	FILE	\\nas\dev\ashk\m\004371a.prt (20)	WEIGHT	FILE	\\nas\dev\ashk\m\004371a.prt (20)	WEIGHT	FILE	\\nas\dev\ashk\m\004371a.prt (20)
S. AREA			S. AREA			S. AREA			S. AREA		
LENGTH/ADTA			LENGTH/ADTA			LENGTH/ADTA			LENGTH/ADTA		
WIDTH/THICK.			WIDTH/THICK.			WIDTH/THICK.			WIDTH/THICK.		
HEIGHT			HEIGHT			HEIGHT			HEIGHT		

SCALE	1:5	SS/REC	CHD	TPSI	ASIK
REF. DRG. NO.	NIL	PL NO.	NIL	DRG. NO.	MI004371
ALT.	a	SIZE	A	SHEET	2/2

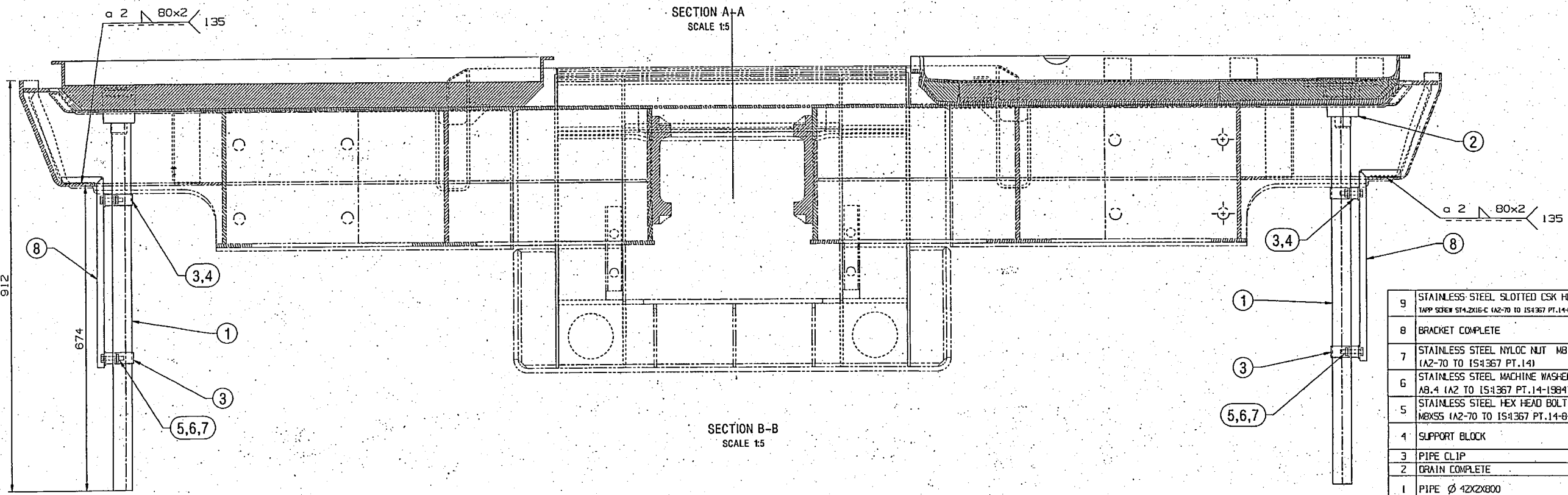
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ALT. NO.	ALT. DATE	ZONE	ALTERATIONS	AUTHORITY
NIL	NIL	NIL	NIL	NIL



SECTION A-A
SCALE 1:5



SECTION B-B
SCALE 1:5

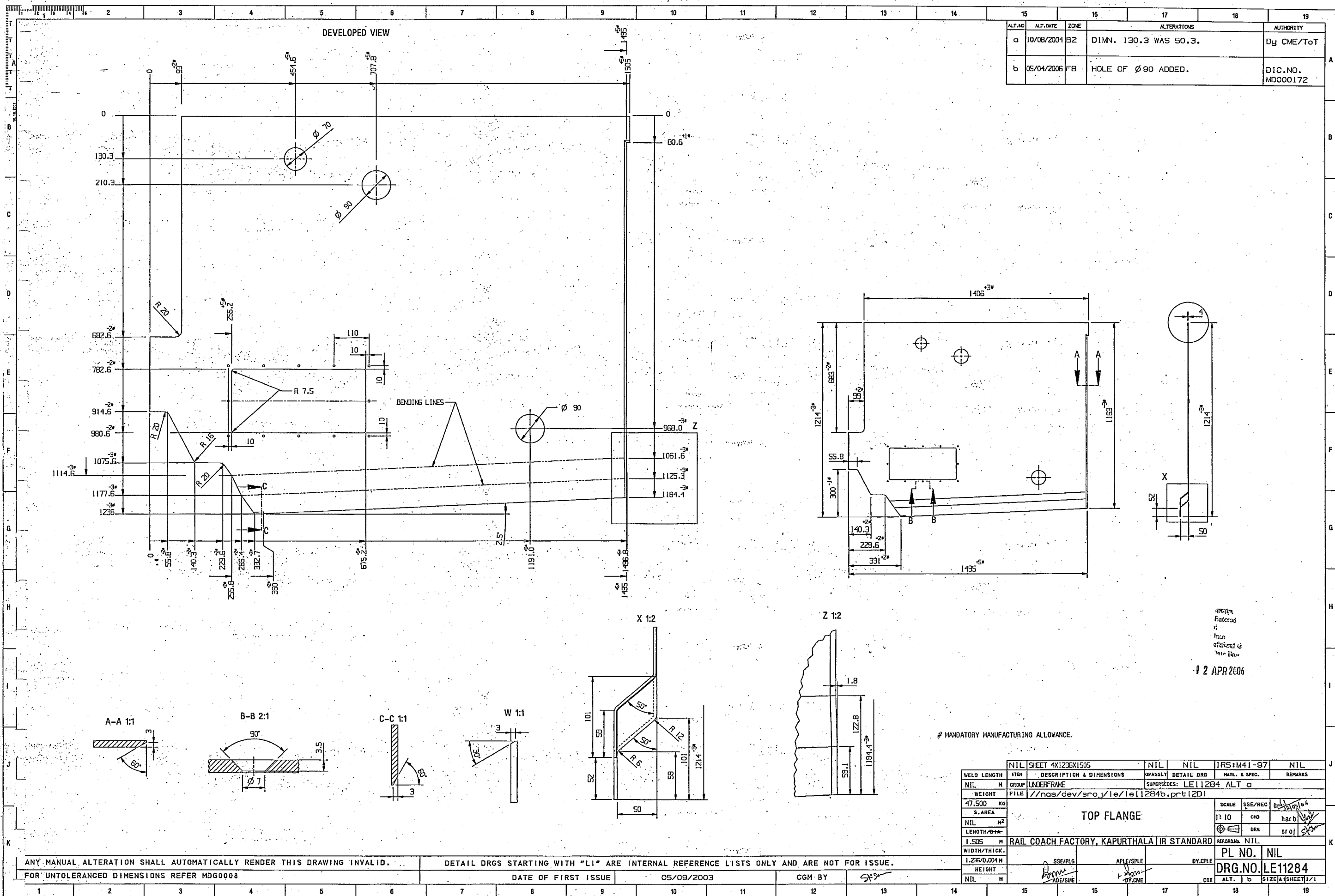
9	STAINLESS STEEL SLOTTED CSK HD TAPP SCREW ST4.2X16-C (A2-70 TO IS4367 PT.14-84)	8	LIHWSS03	15: 7170-1989, IS 0-1482	ITEM-6
8	BRACKET COMPLETE	2	3 10113.0. 03.095.034	NIL	NIL
7	STAINLESS STEEL NYLOC NUT M8 (A2-70 TO IS4367 PT.14)	8	LIHWSS08	IS: 7002-1991 DIN962	ITEM-8 COATING TO MOTS 057
6	STAINLESS STEEL MACHINE WASHER A8.4 (A2 TO IS4367 PT.14-1984)	16	LIHWSS09	IS: 2016-1967 DIN125	ITEM-5
5	STAINLESS STEEL HEX HEAD BOLT M8X55 (A2-70 TO IS4367 PT.14-84)	8	LIHWSS01	IS: 1364 PT.1-92 CE	ITEM-3 COATING TO MOTS 057
4	SUPPORT BLOCK	4	4 10113.0. 30.095.093	NIL	NIL
3	PIPE CLIP	4	LW63110	NIL	ITEM-12
2	DRAIN COMPLETE	2	LW63138	NIL	NIL
1	PIPE Ø 42X2800	2	NIL	DIN2391-C X05C-NI 1810	DIN17456, GR. 1.4301, NSK 3.18

WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	SPASSLY	DETAIL DRG	MATL. & SPEC.	REMARKS
NIL	N	GROUP	SUPERSEDES:	NIL		

- NOTE:-
- 1. ITEM NO.2 SHALL BE INSTALLED AFTER SUITABLE CUT AND Ø 80 HOLE PROVIDING IN LAVATORY TROUGH AND TOP PLATE OF UNDERFRAME AS PER DRG. NO.MI004694..
 - 2. AFTER FIXING OF ITEM NO.2 PROPER SEALING WITH SIKAFLEX 521 OR ANY OTHER SUITABLE SEALANT SHOULD BE DONE OF LAVATORY TROUGH TO PREVENT INGRESS OF WATER.

WASTE WATER PIPING OF EXTRA DRAIN HOLE IN LAVATORY MODULES FOR LHB TYPE COACHES.		SCALE: SSE/REC 1:10	CHKD: T.P.SI
RAIL COACH FACTORY, KAPURTHALA		REF.DRAWL: NIL	ASHK
INDIAN RAILWAYS STANDARD		PL NO. NIL	
		DRG.NO. MI004693	
		ALT. NIL	SIZE A/SHEET 1/1

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FOR UNTOLERANCED DIMENSIONS REFER MDG0008			DATE OF FIRST ISSUE	08/03/2006	CGM BY: [Signature]



ALT.NO	ALT.DATE	ZONE	ALTERATIONS	AUTHORITY
a	10/08/2004	B2	DIMN. 130.3 WAS 50.3.	Dy CME/ToT
b	05/04/2006	F8	HOLE OF Ø 90 ADDED.	DIC.NO. MD000172

संशोधन
एकत्रित
दिनांक
2 APR 2006

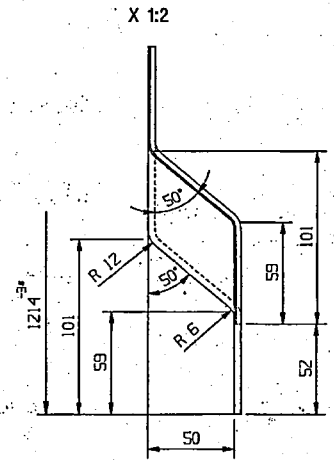
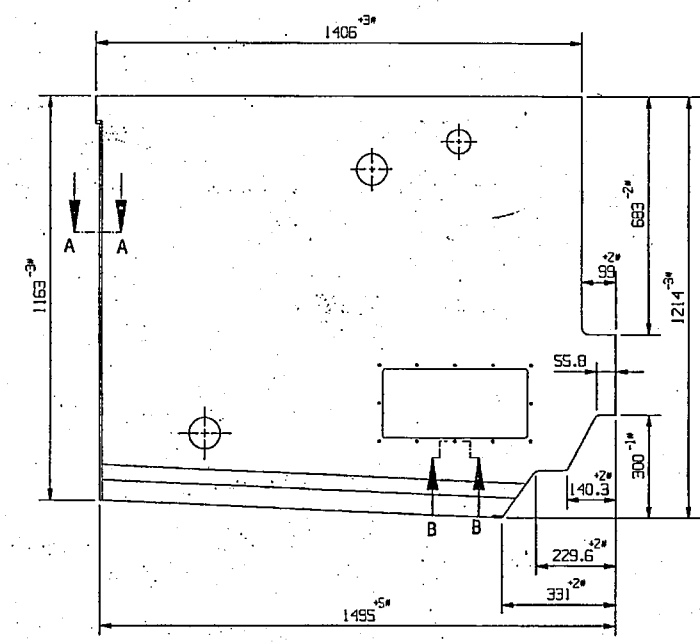
MANDATORY MANUFACTURING ALLOWANCE.

NIL SHEET 4X1236X1505		NIL	NIL	IRS:M41-97	NIL
WELD LENGTH	ITEM	DESCRIPTION & DIMENSIONS	OPASSLY	DETAIL DRG	MATL. & SPEC.
NIL	M	GROUP	UNDERFRAME	SUPERSEDES:	LE11284 ALT a
WEIGHT		FILE //nas/dev/sro/j/e/le11284b.prt (2D)			
47.500	KG				
S. AREA					
NIL	M ²				
LENGTH/Ø**					
1.505	M	RAIL COACH FACTORY, KAPURTHALA IR STANDARD			
WIDTH/THICK.		REF.DRG. NO. NIL			
1.236/0.004	M				
HEIGHT					
NIL	M				
SSE/PLG		APLE/SPL		DY.CPLE	
ABE/SME		DY.CME		CDE	
PL NO.		NIL		DRG.NO. LE11284	
ALT.		b		SIZE(A)SHEET(1/1)	

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DATE OF FIRST ISSUE 05/09/2003 CGM BY



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Entered
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into
विनिर्देशों में
Date Recd.

09 APR 2006

NIL		SHEET 4X1236X1505		NIL		NIL		IRS:M41-97		NIL	
WELD LENGTH		ITEM		DESCRIPTION & DIMENSIONS		SPASSLY		DETAIL DRG		MATERIAL & SPEC.	
NIL		M		GROUP		UNDERFRAME		SUPERSEDES:		LE11285 ALT a	
WEIGHT		FILE		//nas/dev/sra_v/le/le112855.prt(20)							
47.500 KG		S.AREA		TOP FLANGE							
NIL		M2									
LENGTH/DIA											
1.505 M		RAIL COACH FACTORY, KAPURTHALA		IR STANDARD				REF.DRAWING: NIL			
WIDTH/THICK.		SSE/PLD		APLE/SPL		DY.CPLE		PL NO. NIL			
1.236/0.004 M		HEIGHT		DY.CME		CDE		DRG.NO. LE11285			
NIL		M		ADE/SME		DY.CME		ALT. b SIZE(A)SHEET/1			

NY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.		DETAIL DRGS STARTING WITH "LI" ARE INTERNAL REFERENCE LISTS ONLY AND ARE NOT FOR ISSUE.			
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