

AAE15043

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

①b BURRS REMOVED

⑱ CHAMFERED

REVISIONS

ALT.

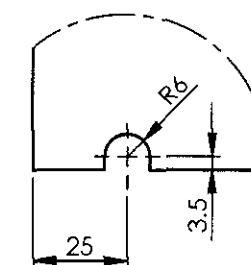
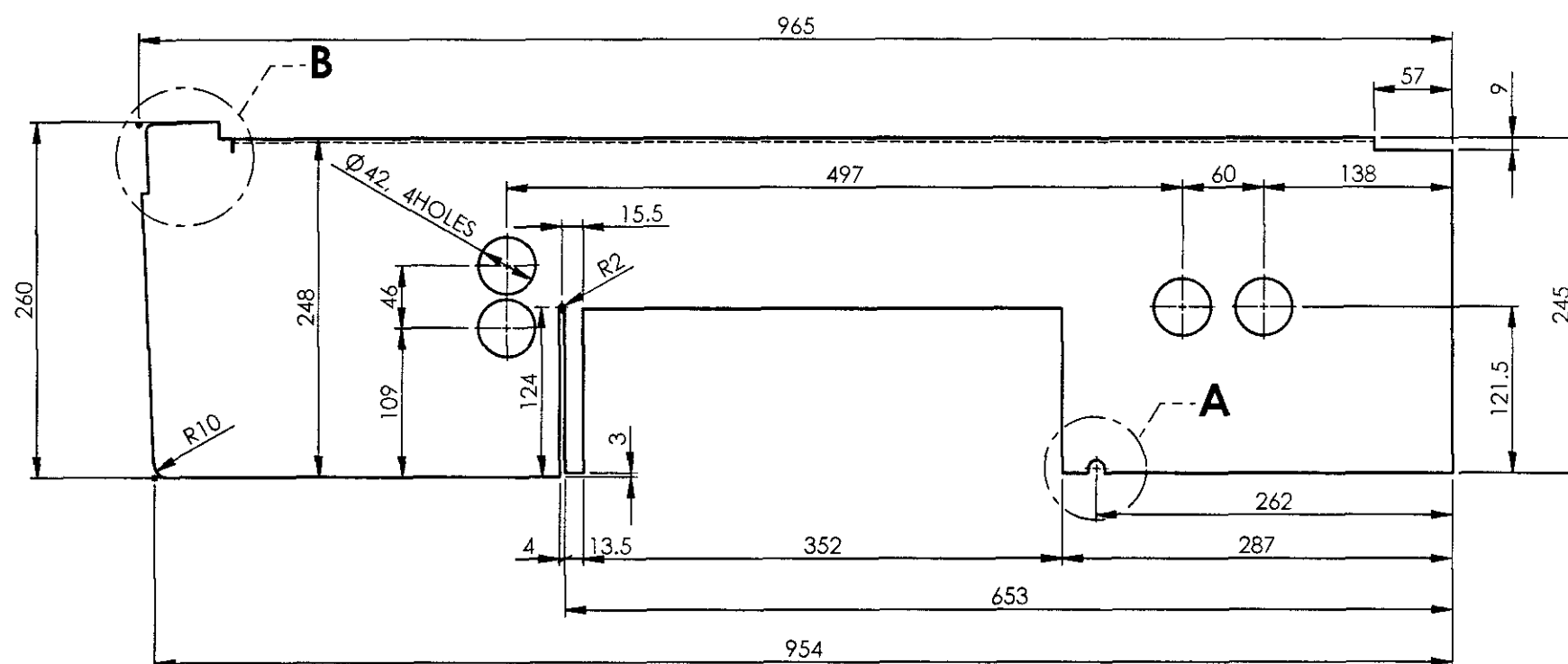
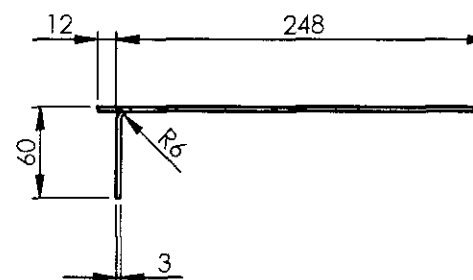
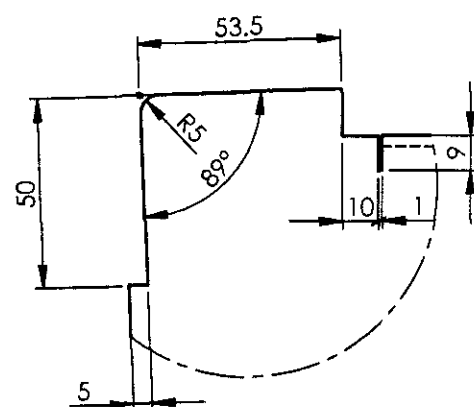
ZONE


DESCRIPTION

APPROVED &
DATE

1

839

DETAIL A
SCALE 1 : 2DETAIL B
SCALE 1 : 2

1	FLANGE	3 x 303 x 945	1		RDSO/SPEC C-K201 X2CrNi12	5.586	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B Singh
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15043		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

30-07-2025

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

AME/SME

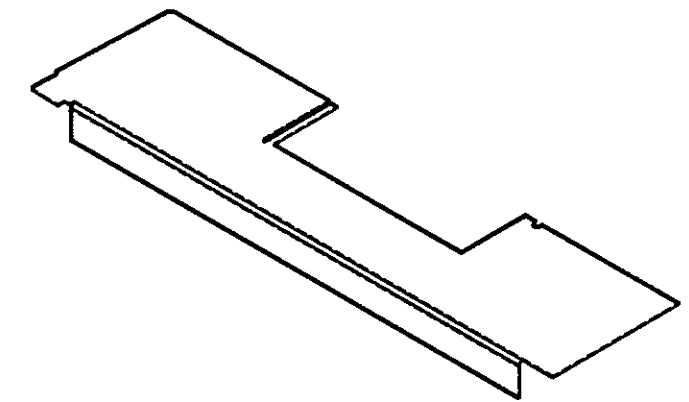
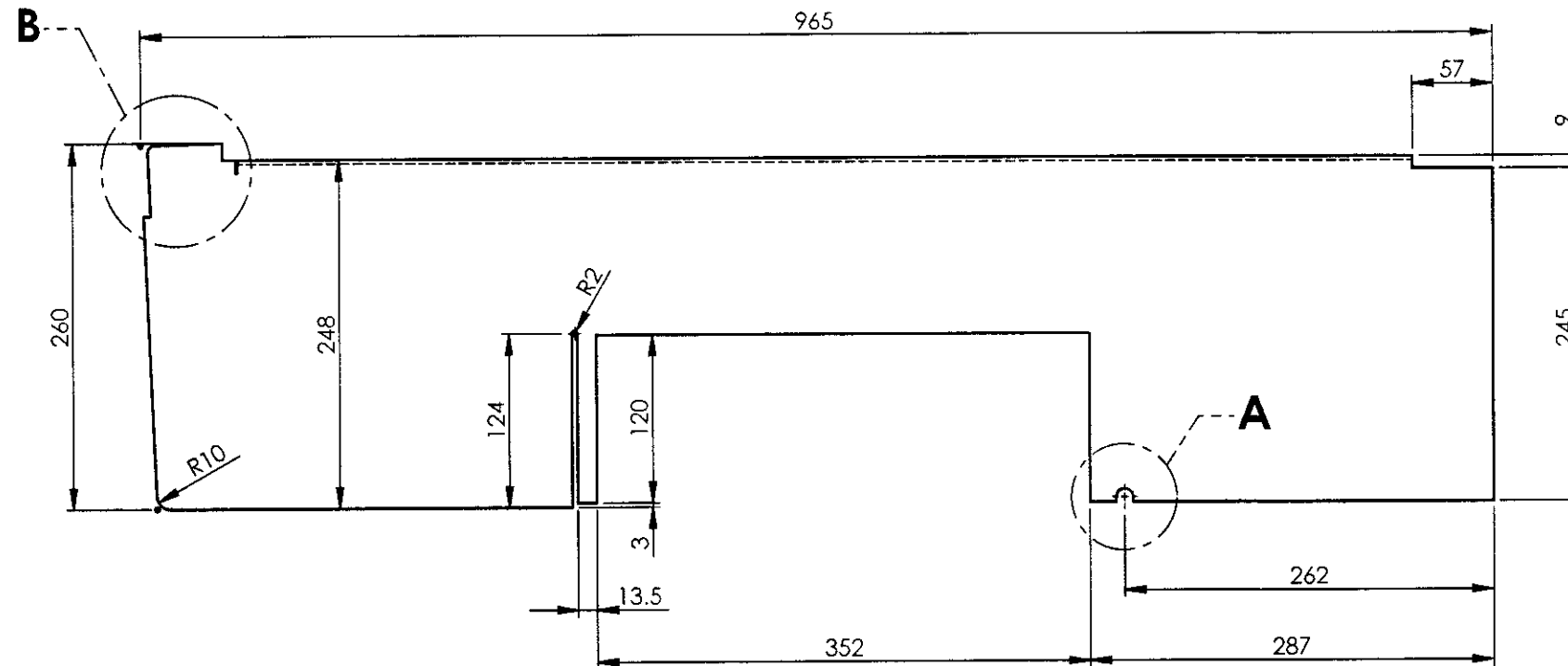
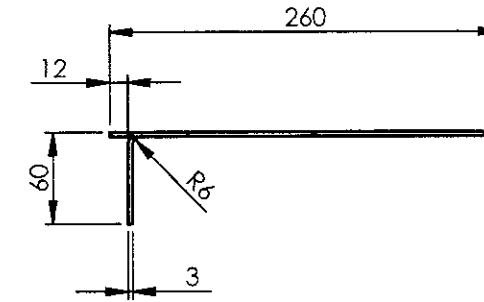
AAE15044

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

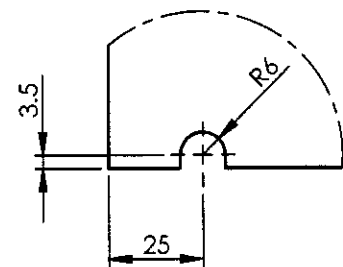
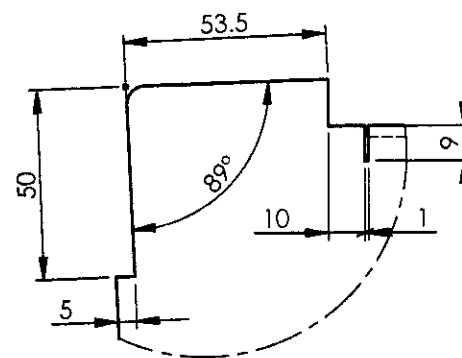
REVISIONS

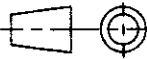
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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1



ISOMETRIC VIEW

DETAIL A
SCALE 1 : 2DETAIL B
SCALE 1 : 2

1	FLANGE	3x303x965	1		RDSO/SPEC C-K201 X2CrNi12	5.719	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B. Anub
					1:5	CHD	
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
					AAE15044		A3
INTEGRAL COACH FACTORY CHENNAI - 600038							

AAE15046

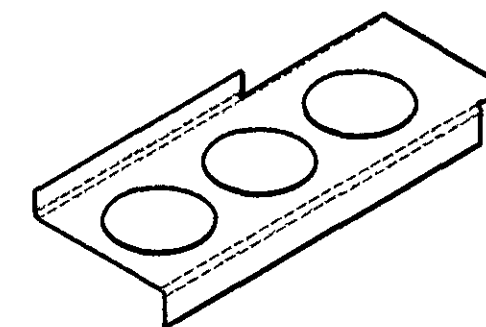
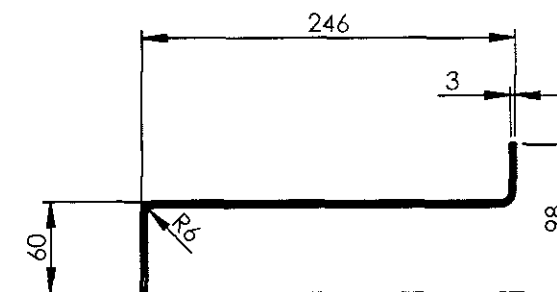
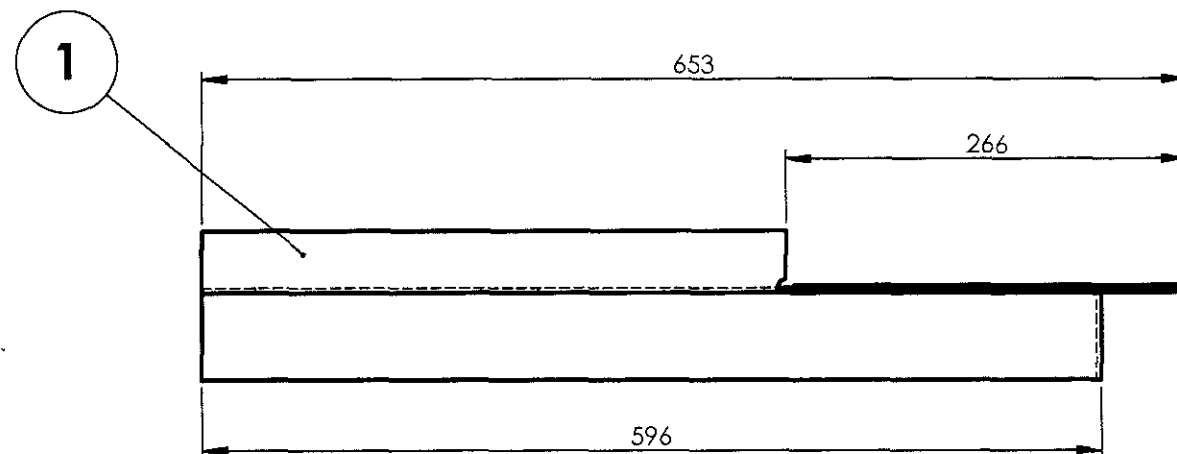
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

REVISIONS

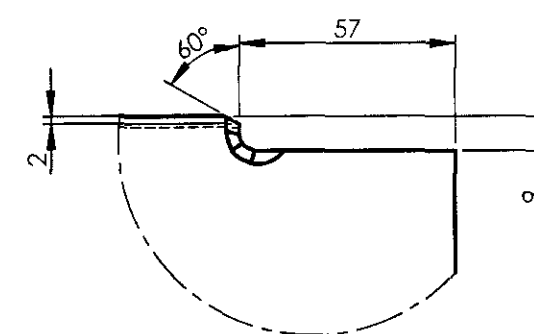
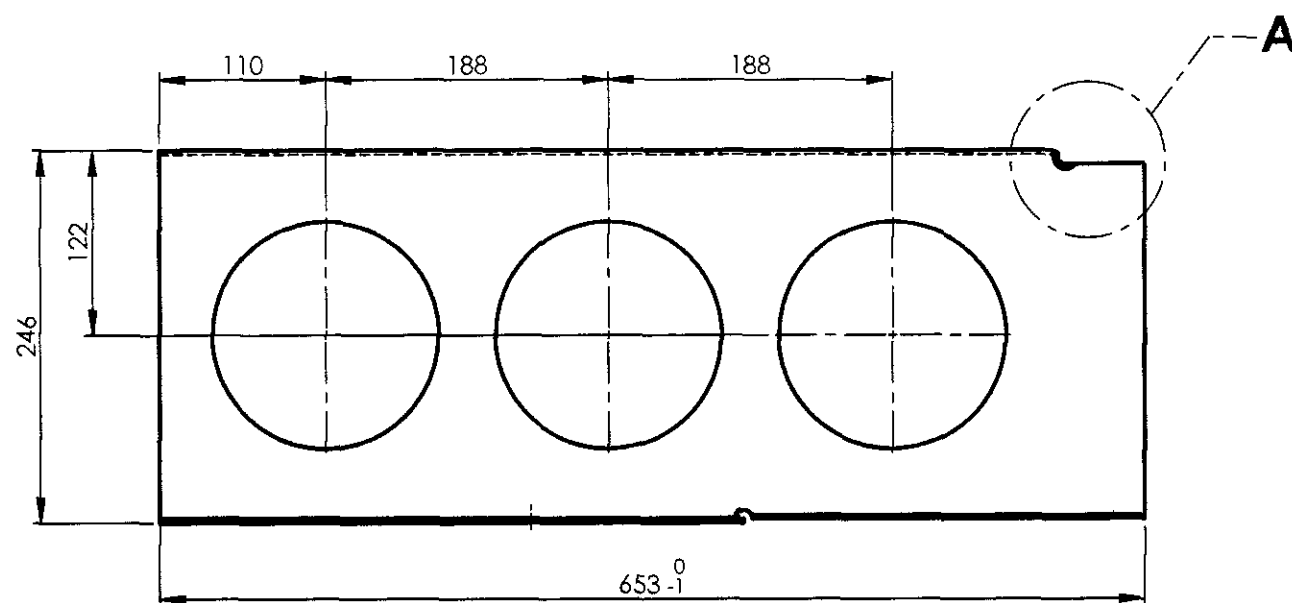
ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

ISOMETRIC VIEW

DETAIL A
SCALE 1 : 2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

	201-07-25	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

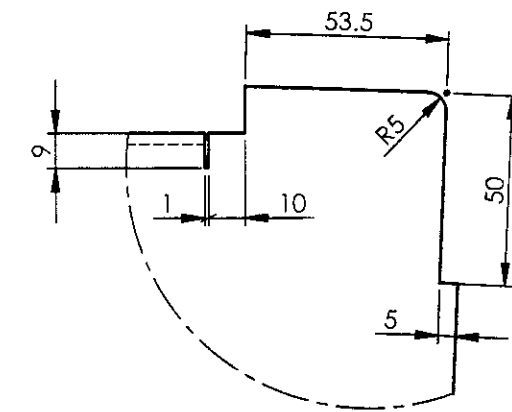
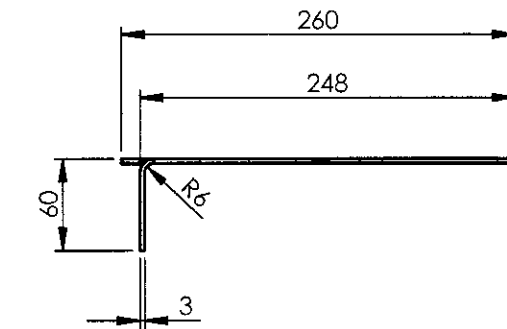
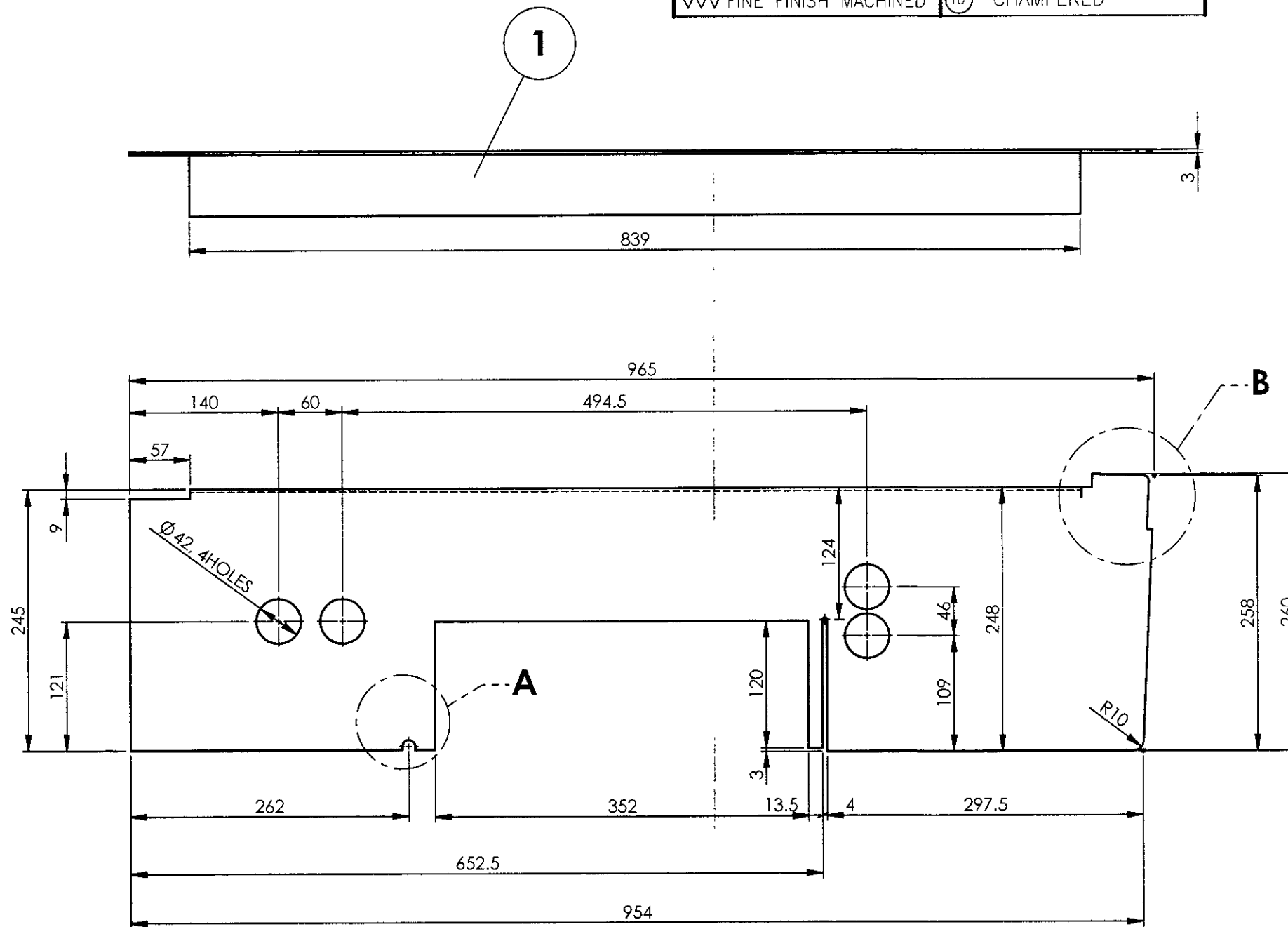
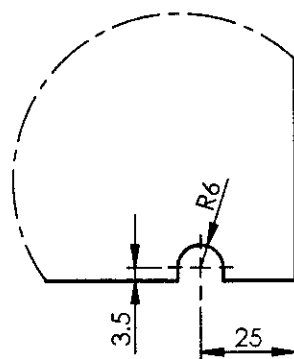
1	FLANGE LH	3x335x453	1		RDSO SPEC C-K201 X2 Cr Ni 12	3.64	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE LH					SCALE 1:5	SSE/D CHD	B. Suresh
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAE15046	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

AAE15047

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①B CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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DETAIL B
SCALE 1 : 2DETAIL A
SCALE 1 : 2

1	FLANGE	3 x 303 x 945	1		RDSO/SPEC C-K201 X2CrNi12	5.581	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE 1:5	SSE/D	B. Suresh
					ALT.	CHD	
						ALTD	
INDIAN RAILWAY STANDARDS					DRN	B.Suresh	
					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15047		A3

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REF.DRG.NO.

DATE OF LATEST ALT.	30-07-2025	AME/SME
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AAE15048

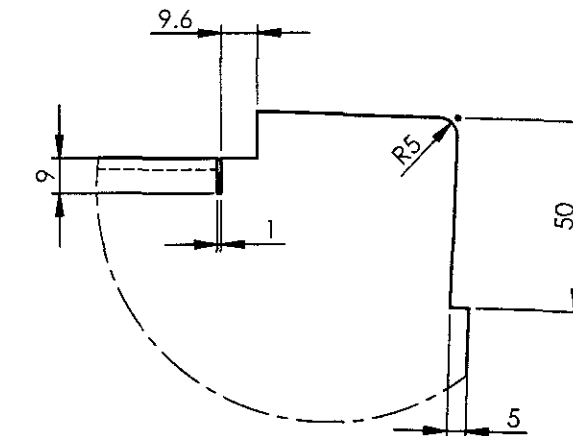
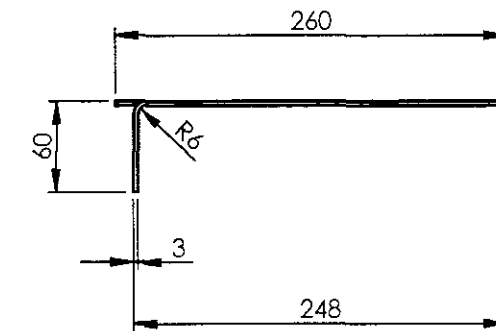
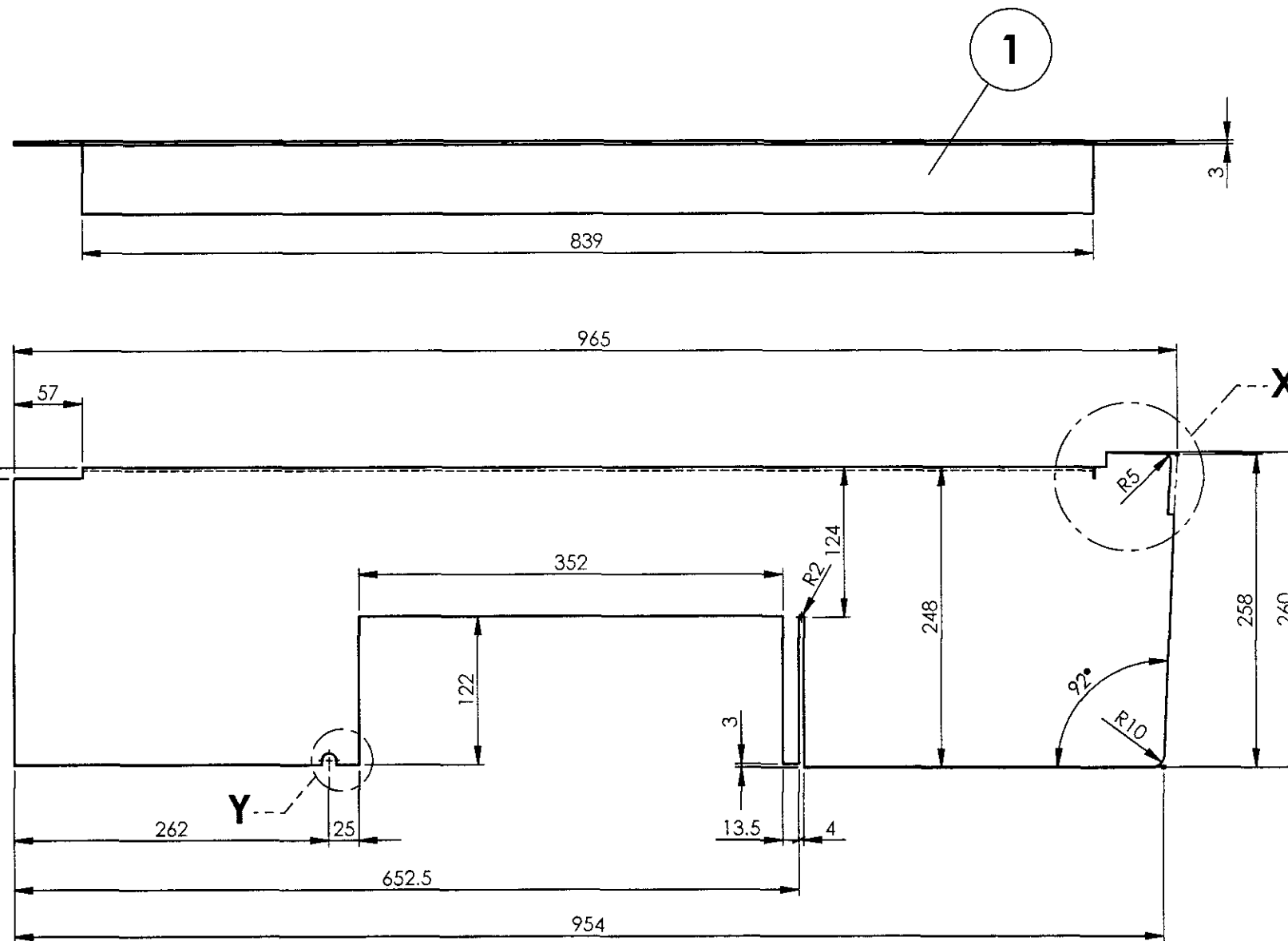
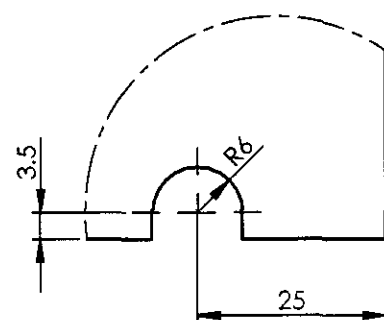
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS

ALT.

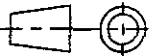
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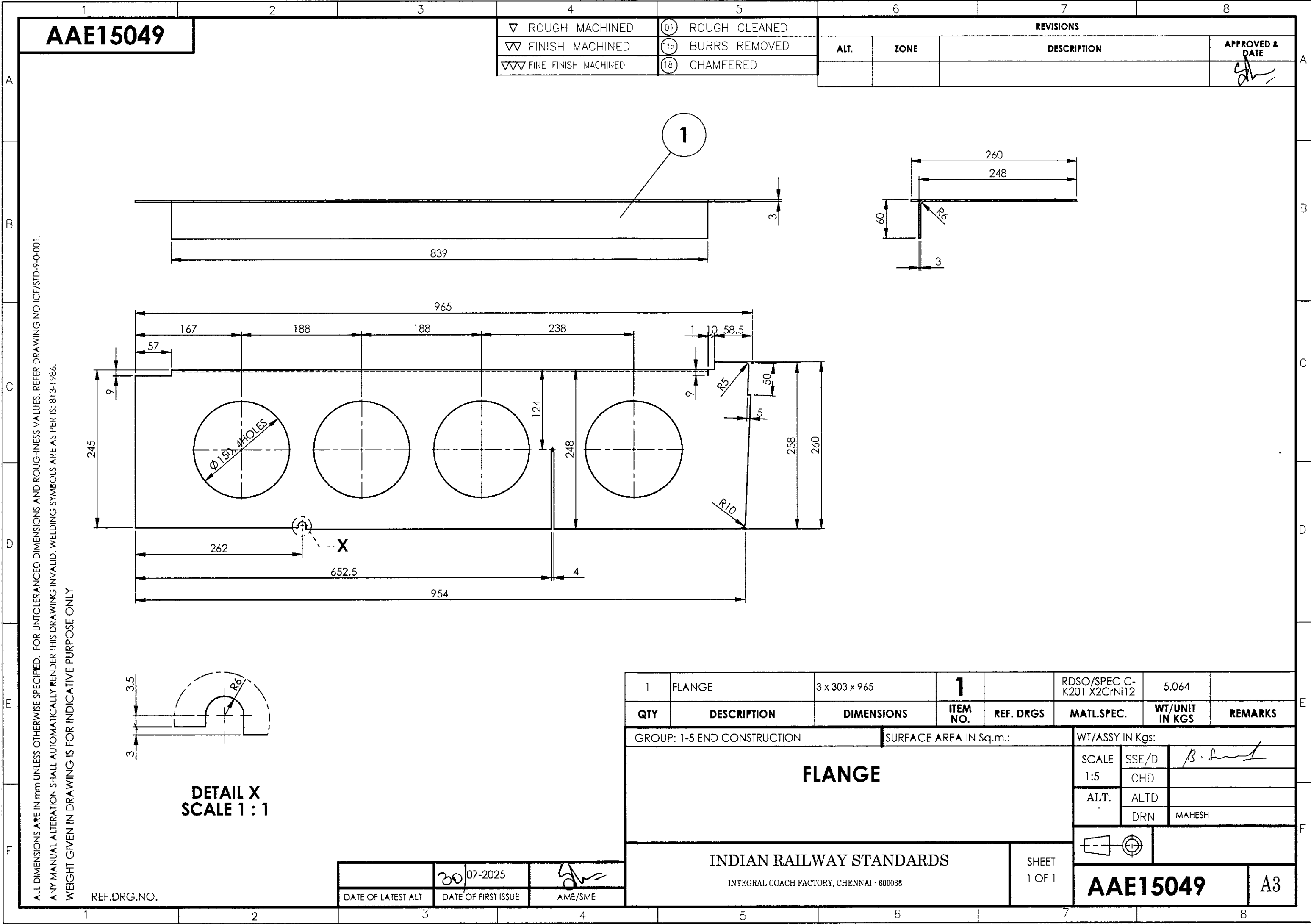
DESCRIPTION

APPROVED &
DATEDETAIL X
SCALE 1 : 2DETAIL Y
SCALE 1 : 1

REF.DRG.NO.

DATE OF LATEST ALT.	30-07-2025	AME/SME
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1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C-K201 X2CrNi12	5.702	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
FLANGE					SCALE	SSE/D	B. Suresh
					1:5	CHD	
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAE15048		A3



AAE15049

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①① CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
			<i>[Signature]</i>

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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

DETAIL X
SCALE 1 : 1

1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C-K201 X2CrNi12	5.064	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE 1:5	SSE/D CHD	<i>[Signature]</i>
					ALT.	ALTD	
						DRN	MAHESH
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAE15049	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

	30	07-2025	<i>[Signature]</i>
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME	

AAE15050

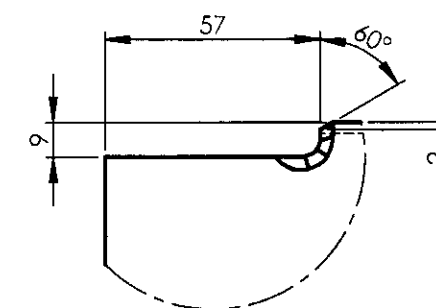
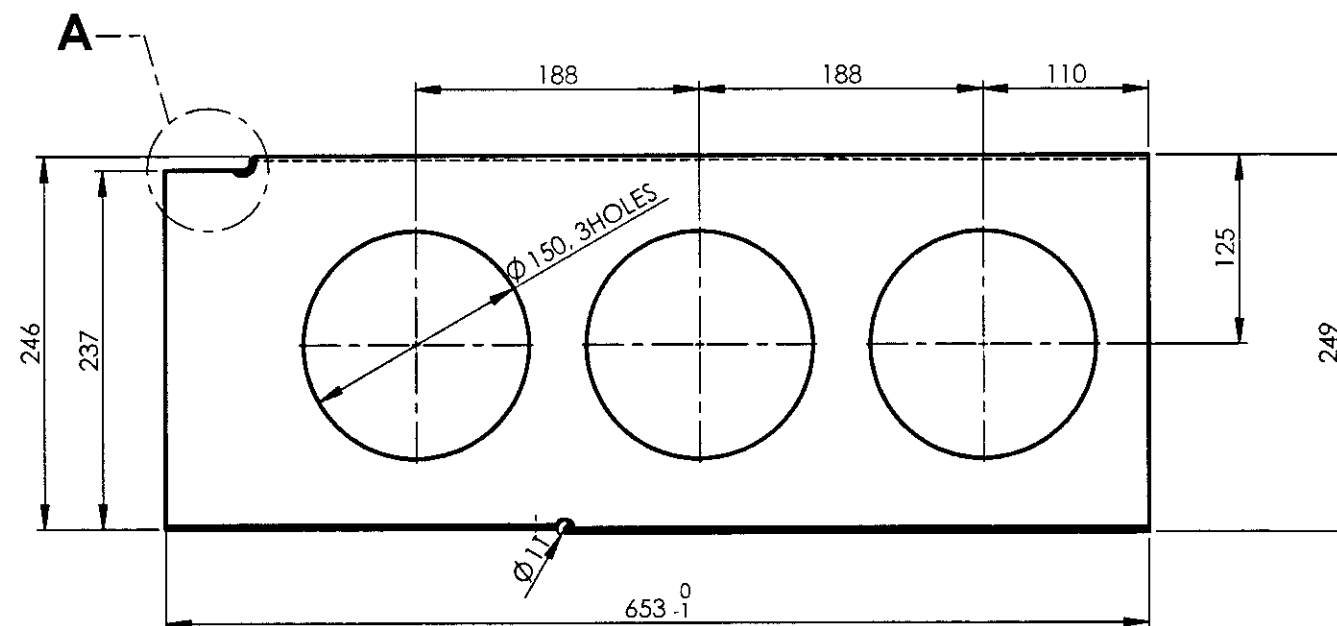
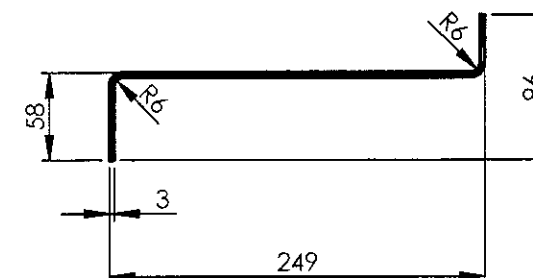
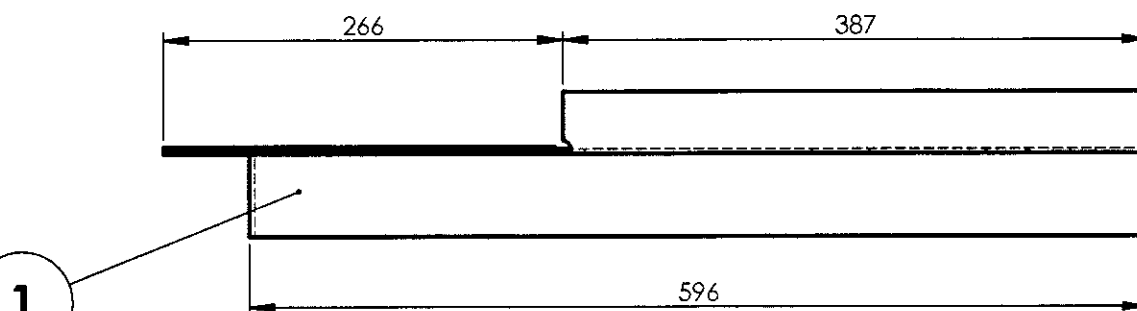
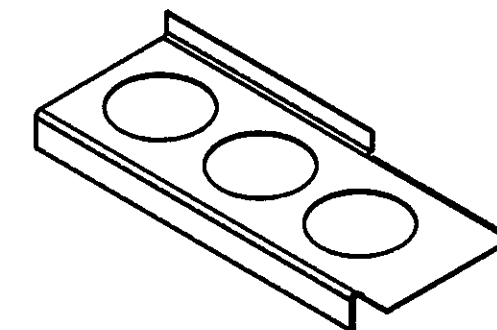
▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	01b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	18 CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATEDETAIL A
SCALE 1 : 2

ISOMETRIC VIEW

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
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REF.DRG.NO.LZ15107

-	30-07-25	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	FLANGE RH	3x335x653	1		RDSO SPEC C-K201 X2 Cr Ni 12	3.65	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE RH					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15050		A3

AAE15065

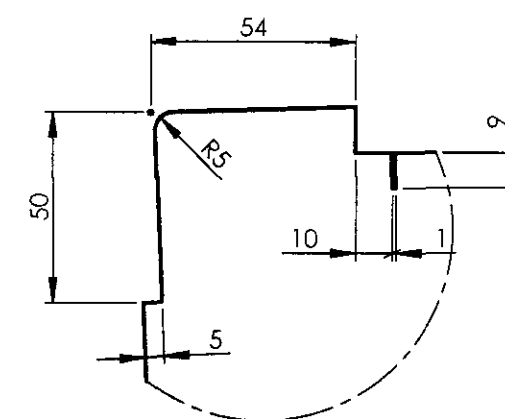
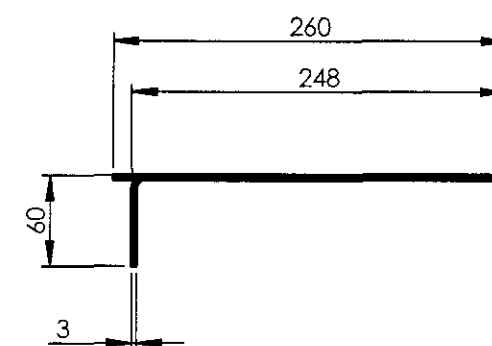
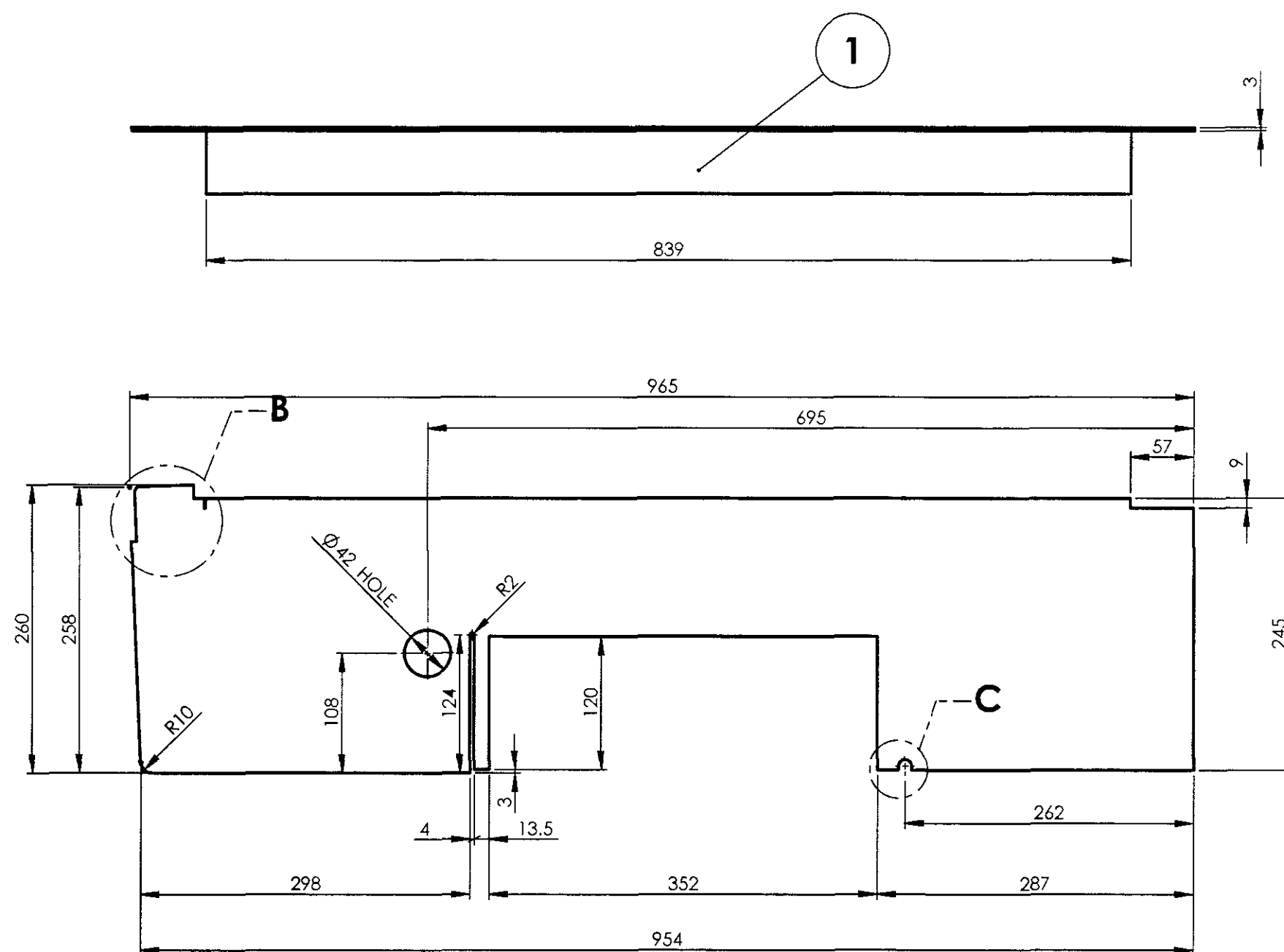
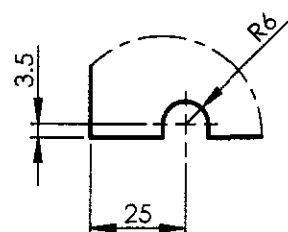
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATEDETAIL B
SCALE 1 : 2DETAIL C
SCALE 1 : 2

1	FLANGE	3 x 303 x 965	1		RDSO/SPEC C- K201 X2CrNi12	5.686	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE	SSE/D	B. L.
					1:10	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					DRN	SURESH B	
					A3		
SHEET 1 OF 1					AAE15065		
DATE OF LATEST ALT.					DATE OF FIRST ISSUE		
AME/SME							

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REF.DRG.NO.

AAE15066

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

①b BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

①8 CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1

839

260

248

60

R6

3

965

57

9

245

124

Ø 42 HOLE

120

109

3

38

4

297.5

13.5

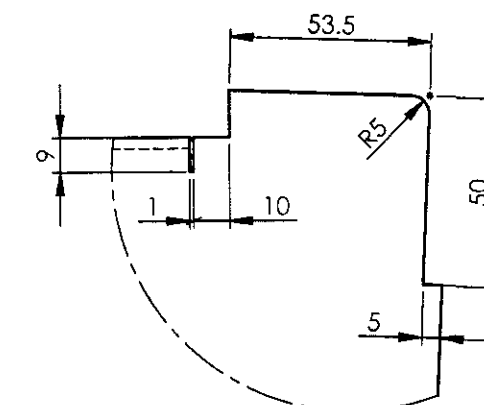
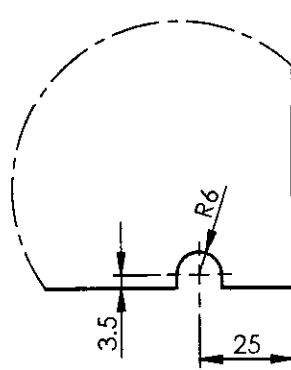
352

262

652.5

954

R10

DETAIL B
SCALE 1 : 2DETAIL A
SCALE 1 : 2

1	FLANGE	3 x 303 x 945	1		RDSO/SPEC C-K201 X2CrNi12	5.681	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE					SCALE 1:5	SSE/D CHD	R Suresh B
					ALT.	ALTD	
						DRN	SURESH B
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAE15066		
					A3		

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DATE OF LATEST ALT

30-07-2025

DATE OF FIRST ISSUE

AME/SME

1		2		3		4		5		6		7		8																																																																							
AAE15086				▽ ROUGH MACHINED		⑨① ROUGH CLEANED		REVISIONS																																																																													
				▽▽ FINISH MACHINED		⑨② BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																																							
				▽▽▽ FINE FINISH MACHINED		⑨③ CHAMFERED																																																																															
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001 ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div></div>																																																																																					
<table><tr><td>1</td><td>BRACKET FOR DRAIN PIPE FIXING</td><td>3 x 40 x 266</td><td>1</td><td></td><td>RDSO SPEC C-K201 X2 Cr Ni 12</td><td>0.25</td><td></td></tr><tr><td>QTY</td><td>DESCRIPTION</td><td>DIMENSIONS</td><td>ITEM NO.</td><td>REF. DRGS</td><td>MATL.SPEC.</td><td>WT/UNIT IN KGS</td><td>REMARKS</td></tr><tr><td colspan="4">GROUP: 1-5 End Construction</td><td colspan="2">SURFACE AREA IN Sq.m.:</td><td colspan="2">WT/ASSY IN Kgs:</td></tr><tr><td colspan="6" rowspan="4">BRACKET FOR DRAIN PIPE FIXING</td><td>SCALE 1:1</td><td>SSE/D CHD</td><td>L. Pandurang Rao</td></tr><tr><td>ALT.</td><td>ALTD</td><td></td></tr><tr><td>DRN</td><td>H. Irshath Ahamed</td><td></td></tr><tr><td colspan="2">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td colspan="2">AAE15086</td><td>A3</td></tr><tr><td colspan="2"></td><td colspan="2">22/8/25</td><td colspan="2">[Signature]</td><td colspan="2"></td></tr><tr><td colspan="2">DATE OF LATEST ALT.</td><td colspan="2">DATE OF FIRST ISSUE</td><td colspan="2">AME/SME</td><td colspan="2"></td></tr><tr><td colspan="2">REF.DRG.NO.-</td><td colspan="2"></td><td colspan="2"></td><td colspan="2"></td></tr></table>																1	BRACKET FOR DRAIN PIPE FIXING	3 x 40 x 266	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.25		QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:		BRACKET FOR DRAIN PIPE FIXING						SCALE 1:1	SSE/D CHD	L. Pandurang Rao	ALT.	ALTD		DRN	H. Irshath Ahamed		INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		AAE15086		A3			22/8/25		[Signature]				DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME				REF.DRG.NO.-							
1	BRACKET FOR DRAIN PIPE FIXING	3 x 40 x 266	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.25																																																																															
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																														
GROUP: 1-5 End Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:																																																																															
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		22/8/25		[Signature]																																																																																	
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1		2		3		4		5		6		7		8																																																																							

SSA10019

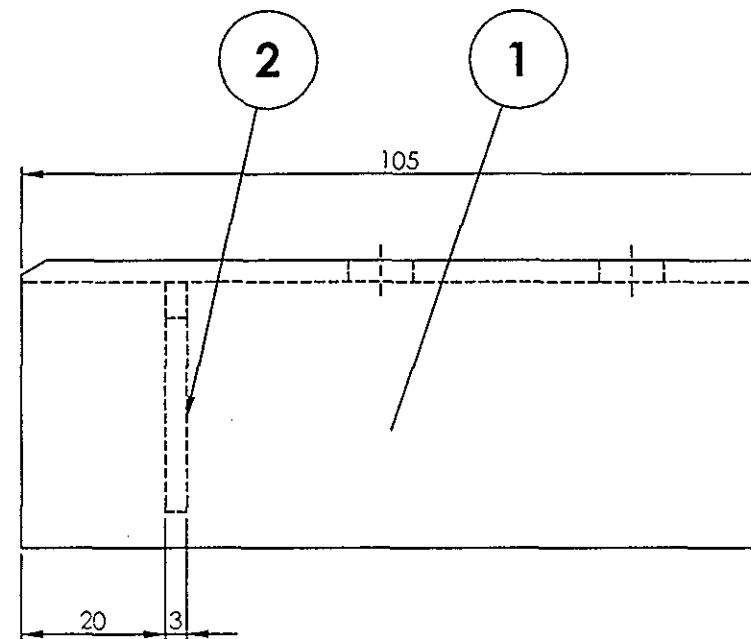
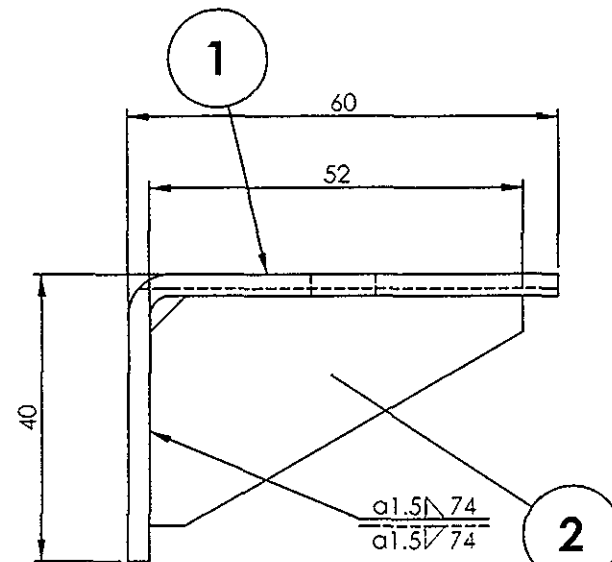
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▽▽ FINISH MACHINED	⊙⊙ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊙⊙ CHAMFERED

REVISIONS

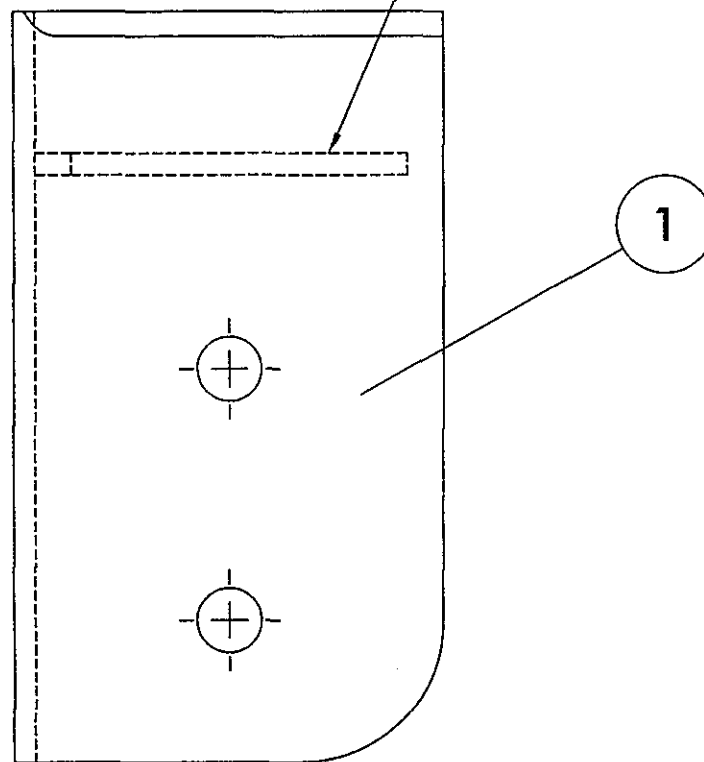
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ZONE

DESCRIPTION

APPROVED &
DATE**NOTE:**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.



1	WEB		2	AAA10974		0.024	
1	ANGLE		1	AAA10975		0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.023			WT/ASSY IN Kgs:0.257		
BRACKET					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	L.PANDURANGA RAO
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							-
					SHEET 1 OF 1		SSA10019

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

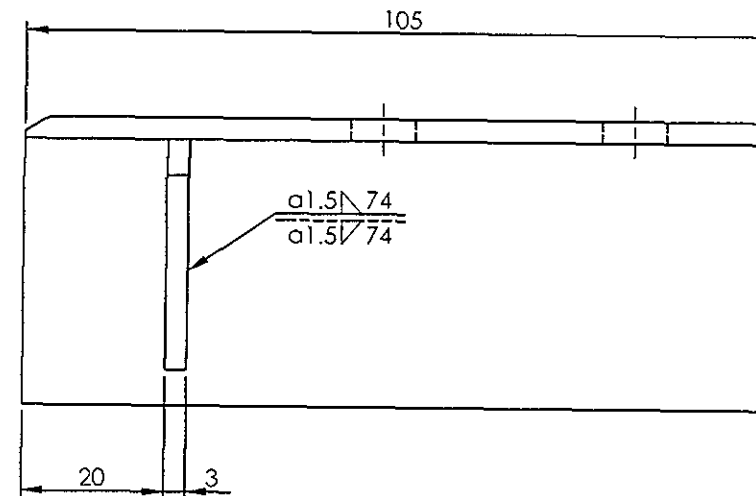
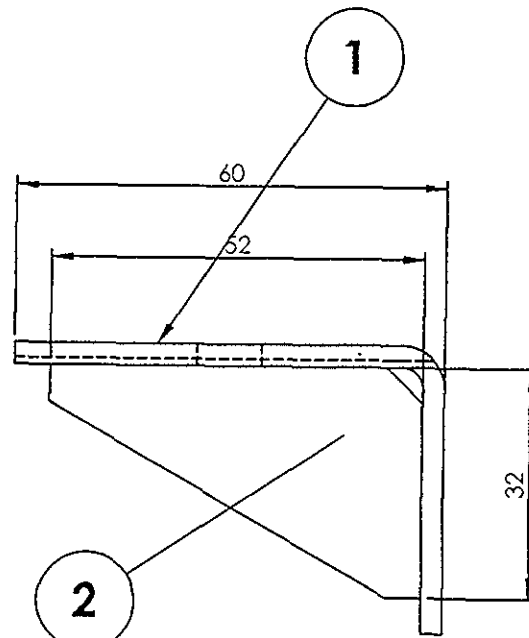
REF.DRG.NO.3 10113.0.20.095.018

	10-04-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

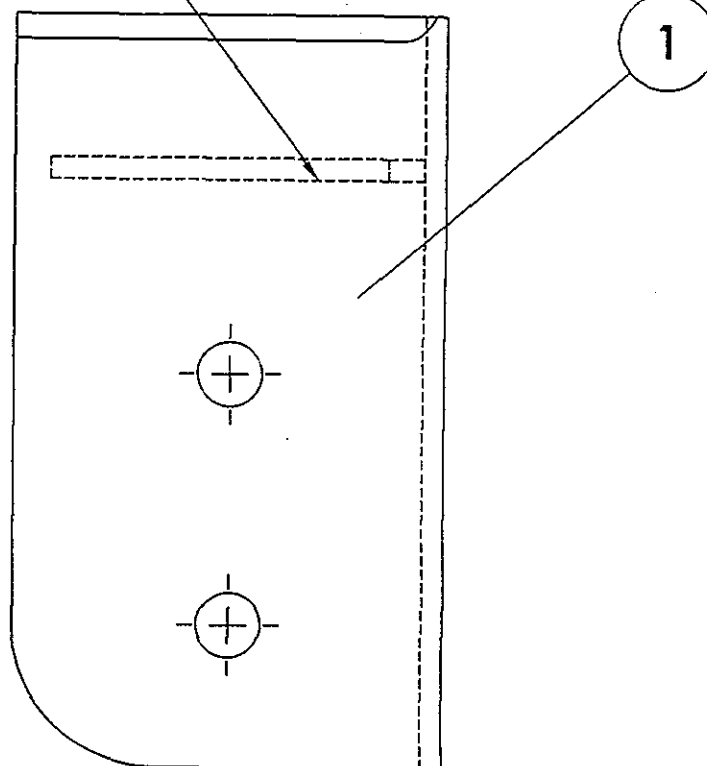
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▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

**NOTE:**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.



1	WEB		2	AAA10974		0.024	
1	ANGLE		1	AAA10973		0.233	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-0

SURFACE AREA IN Sq.m.:0.023

WT/ASSY IN Kgs:0.257

BRACKET

SCALE	SSE/D	<i>h. Panduranga Rao</i>
1:1	CHD	
ALT.	ALTD	
	DRN	L.PANDURANGA RAO

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

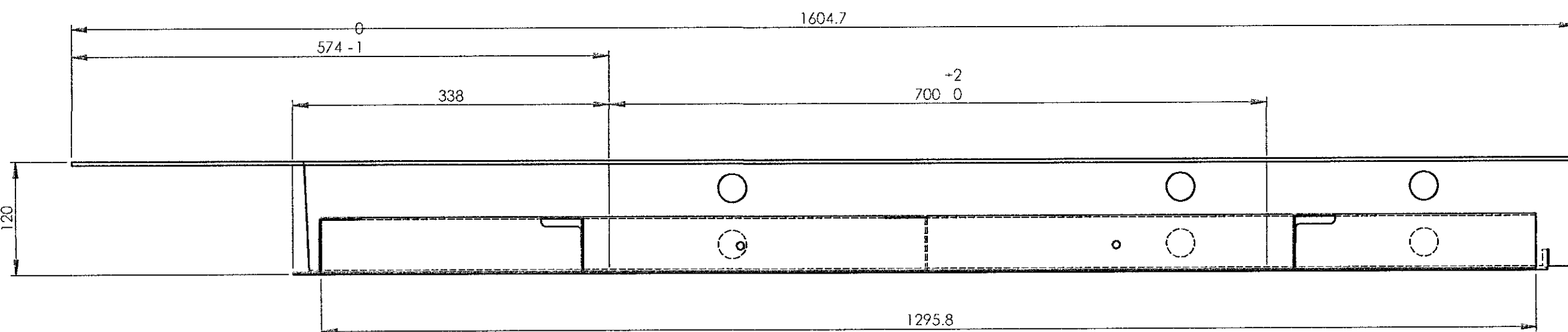
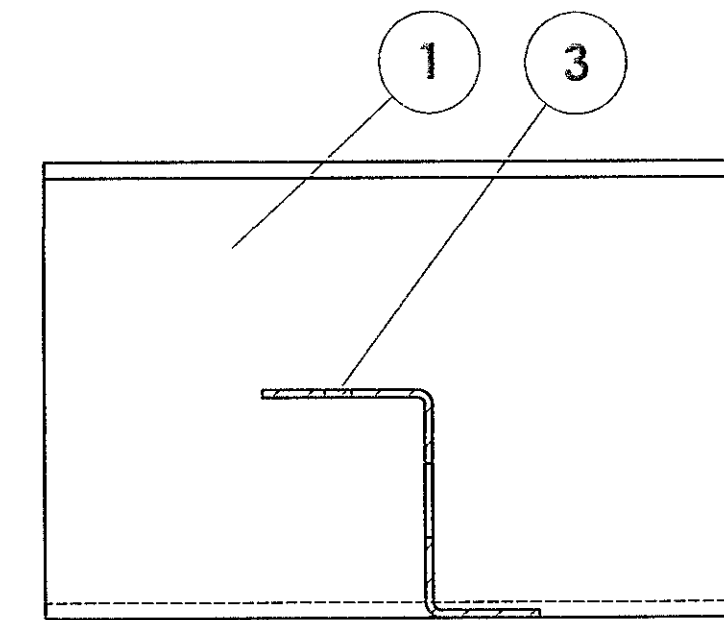
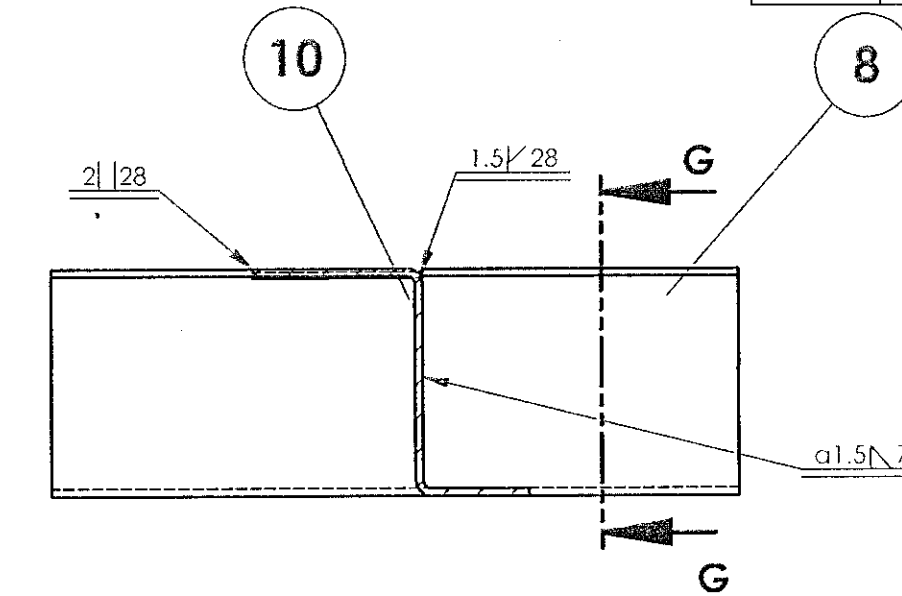
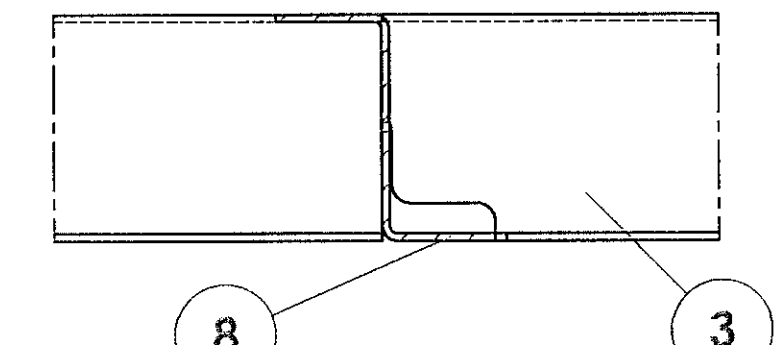
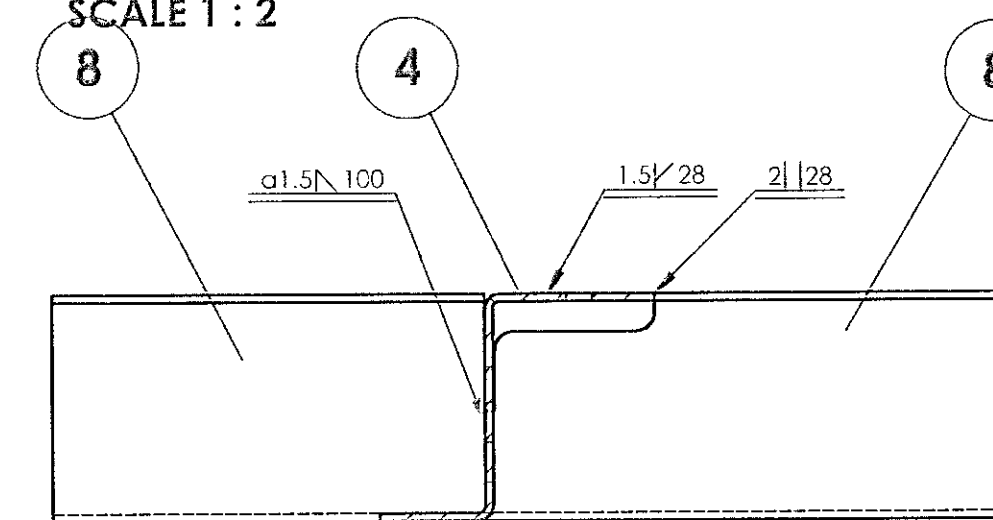
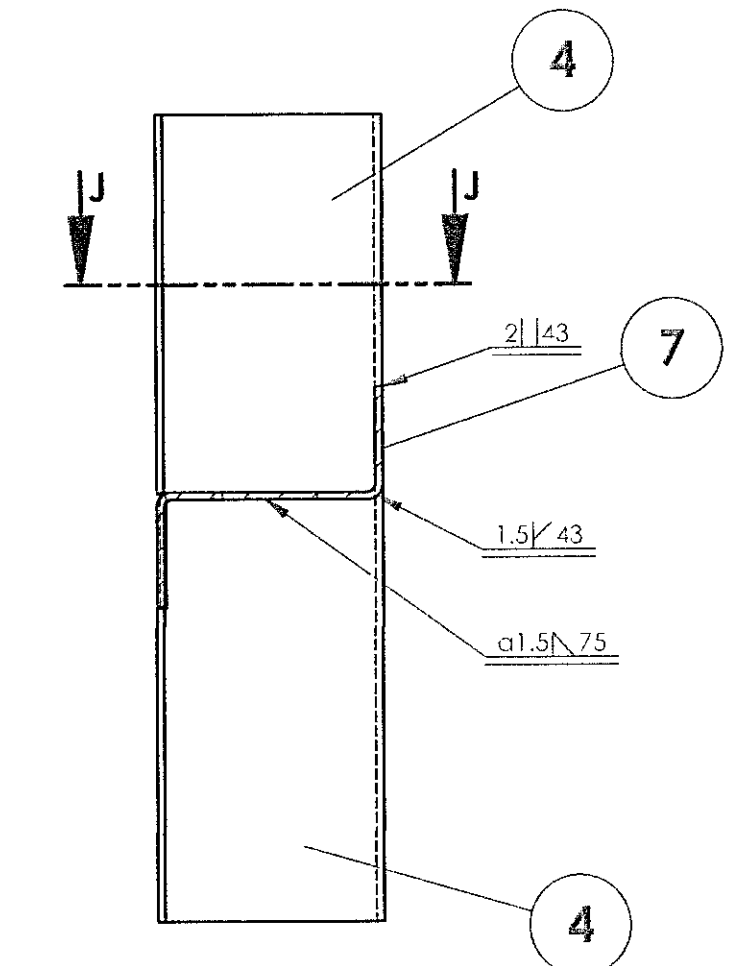
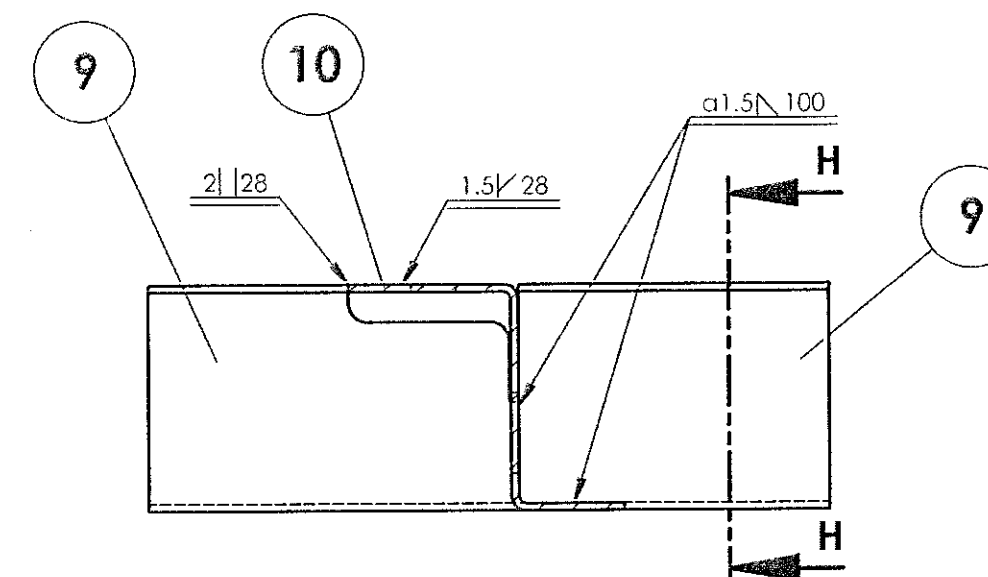
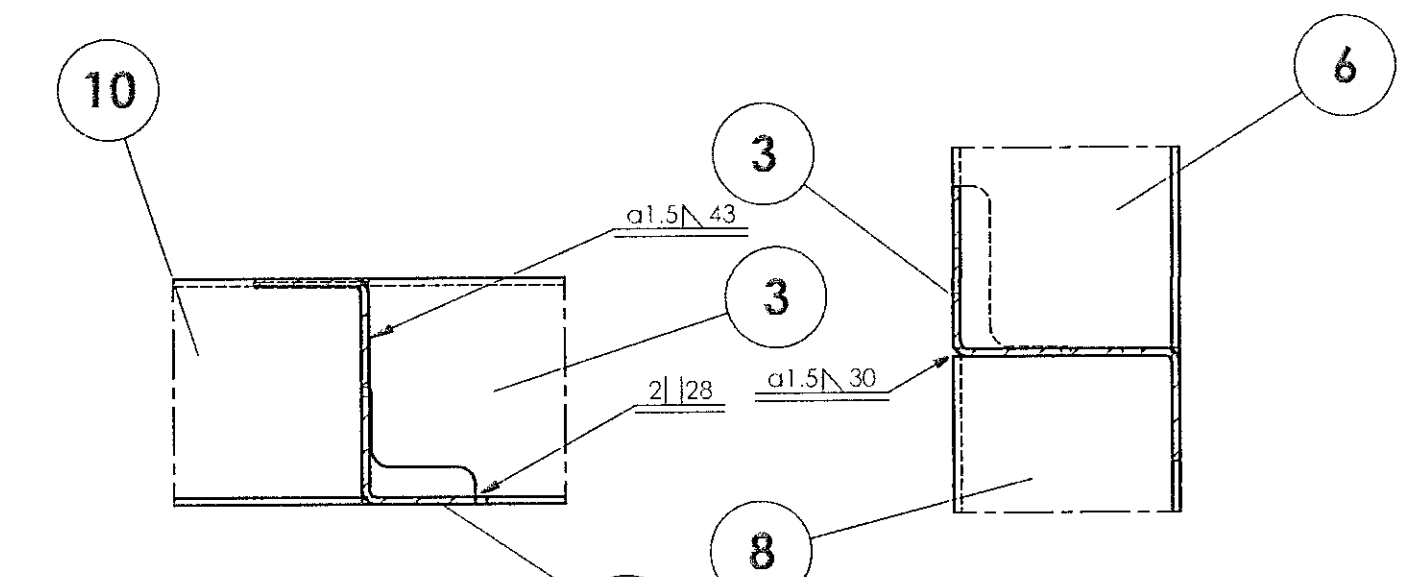
SHEET
1 OF 1**SSA10020****A3**

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD 9 0 001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813:1986.

REF.DRG.NO.3 10113.0.20.095.019

	10-04-2013	<i>100</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

49514021

SECTION A-A
SCALE 1 : 5SECTION B-B
SCALE 1 : 2SECTION C-C
SCALE 1 : 2SECTION G-G
SCALE 1 : 2SECTION D-D
SCALE 1 : 2SECTION F-F
SCALE 1 : 2SECTION E-E
SCALE 1 : 2SECTION H-H
SCALE 1 : 2SECTION J-J
SCALE 1 : 2

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	VERTICAL PILLAR		11	AAA14380		0.543	
1	VERTICAL PILLAR		10	AAA14377		1.459	
1	HORIZONTAL MEMBER		9	AAA14375		2.270	
1	HORIZONTAL MEMBER		8	AAA14374		2.277	
1	HORIZONTAL MEMBER		7	AAA14373		0.460	
1	HORIZONTAL MEMBER		6	AAA14372		0.505	
1	HORIZONTAL MEMBER		5	AAA14371		2.275	
1	VERTICAL PILLAR		4	AAA14376		4.066	
1	VERTICAL PILLAR		3	AAA14378		4.066	
1	VERTICAL PILLAR		2	AAA14379		3.936	
1	ROOF FLANGE		1	AAA14370		8.984	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS.	MATL SPEC	WT/UNIT IN KGS	REMARKS

GROUP: 1-4		SURFACE AREA IN Sq.m: 3.370		WI/ASSY IN Kgs:	
SCALE: 1:20		SSE/D		CHD	
ALT. a		ALTD		VIJAYAKUMAR R	
DRN		K.Sethuraman		LWGSCWAC2	
INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		49514021	
INTEGRAL COACH FACTORY, CHENNAI - 600038		A1			

08-01-2026
DATE OF LATEST ALT.24-12-2009
DATE OF FIRST ISSUE

AME/SME

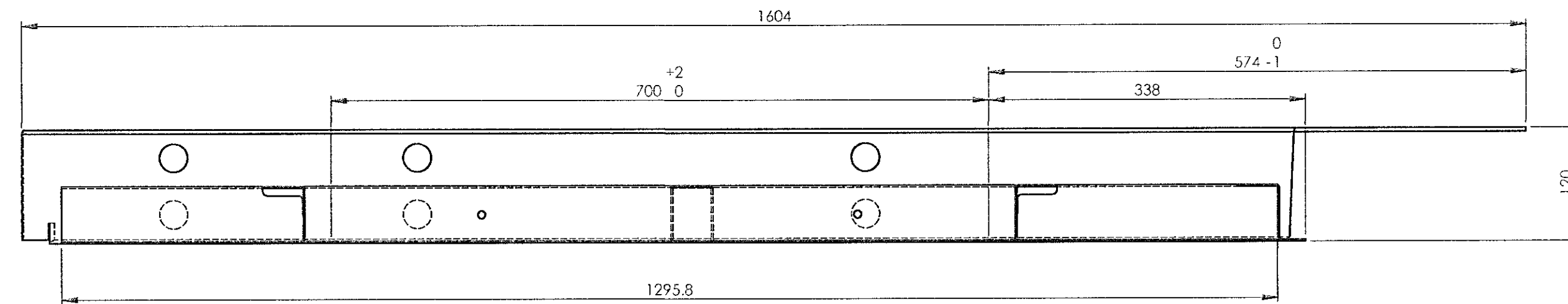
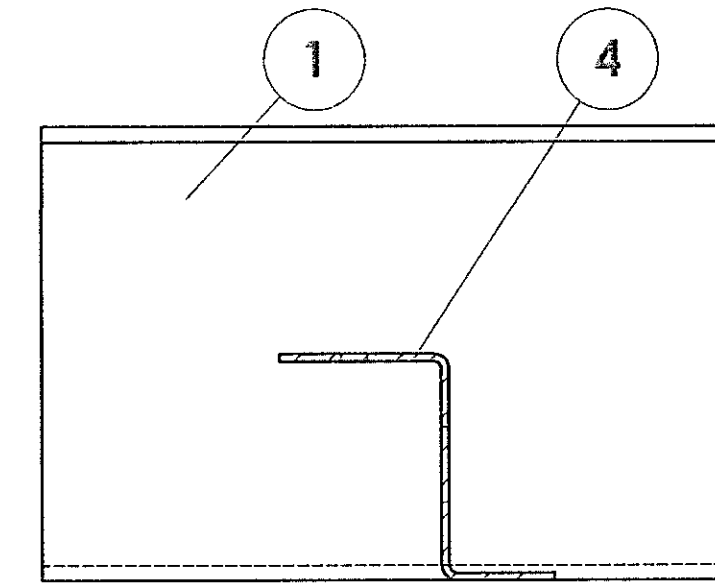
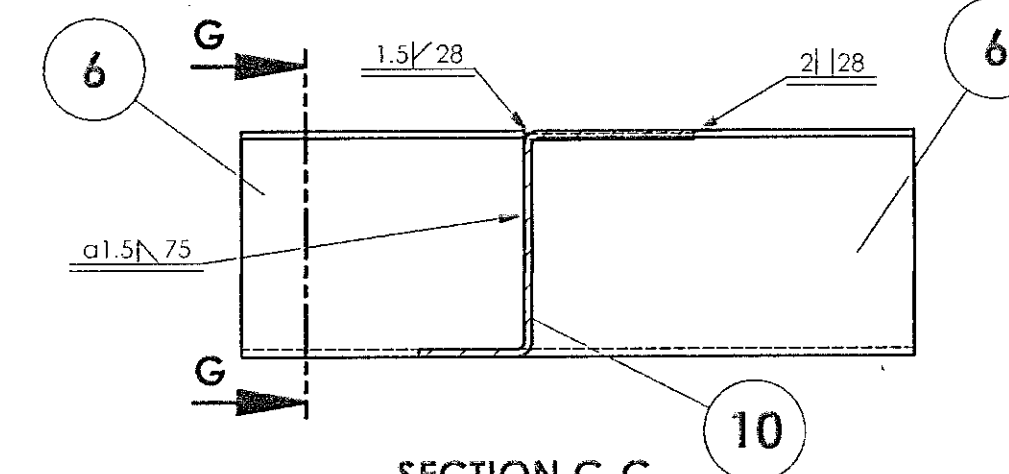
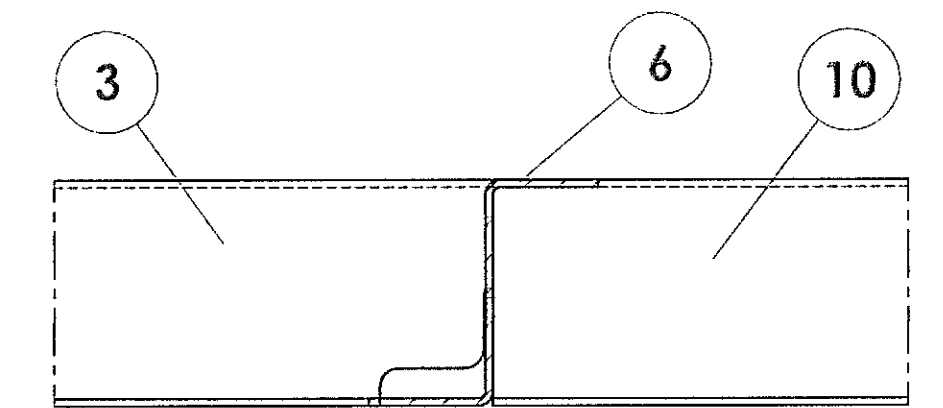
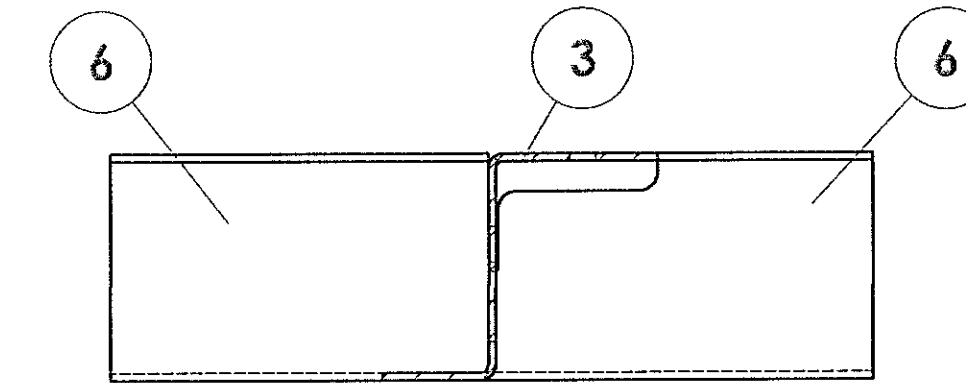
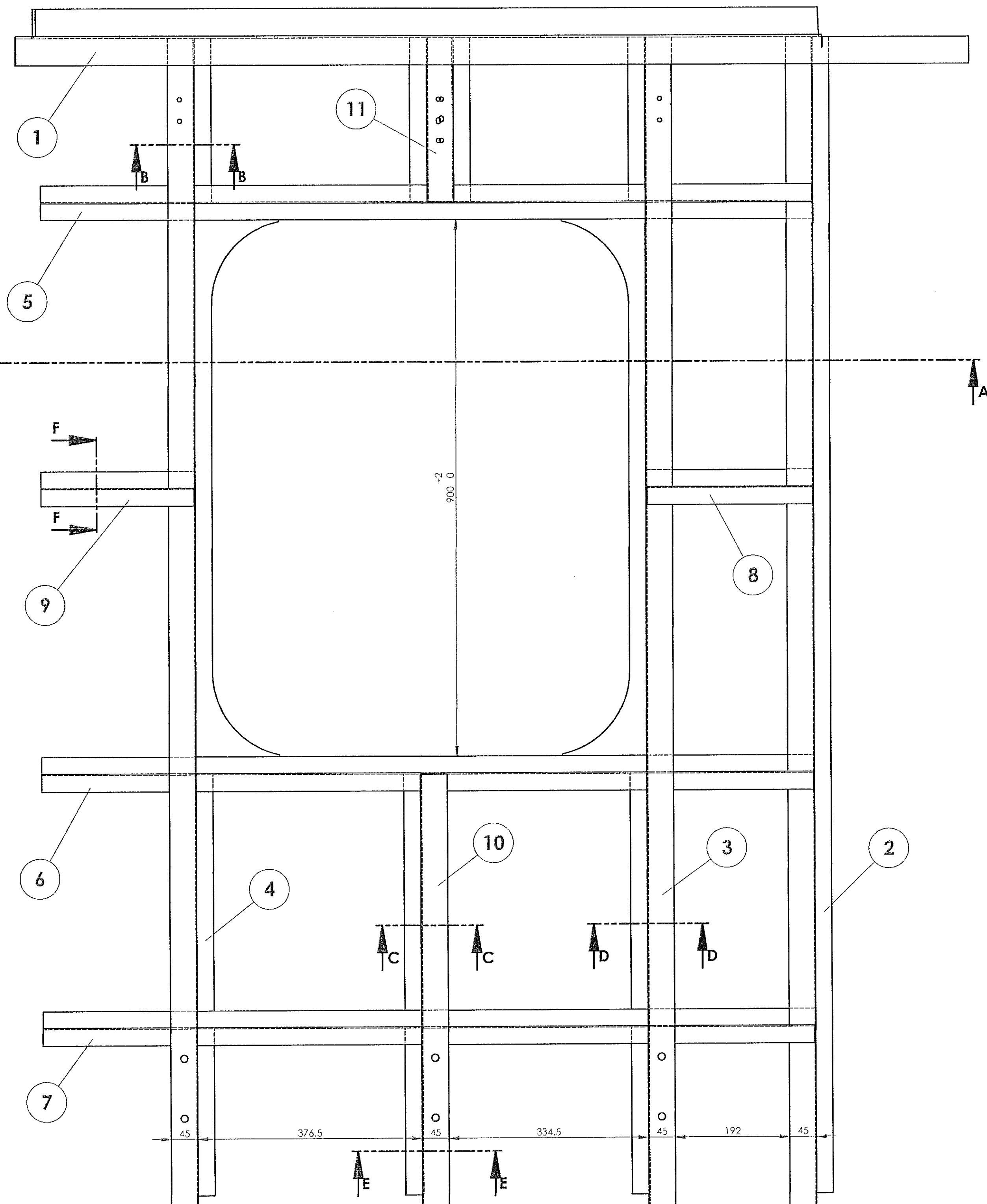
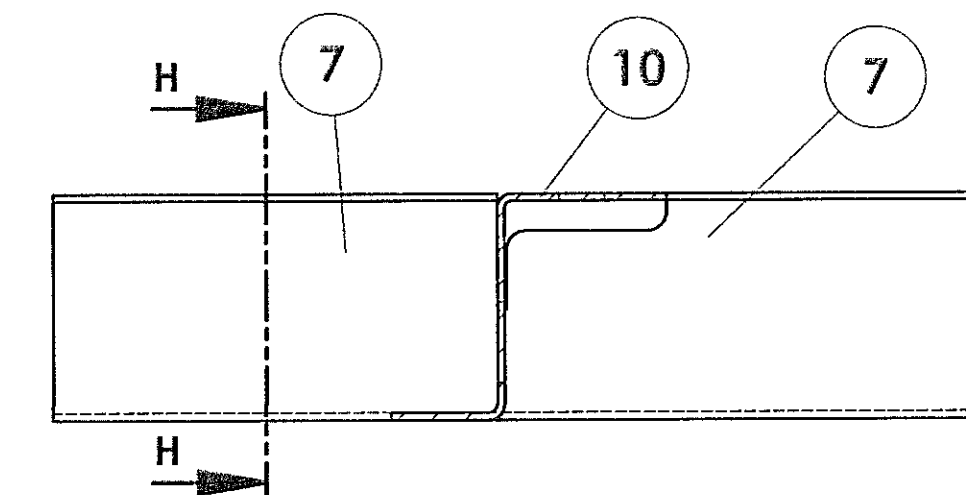
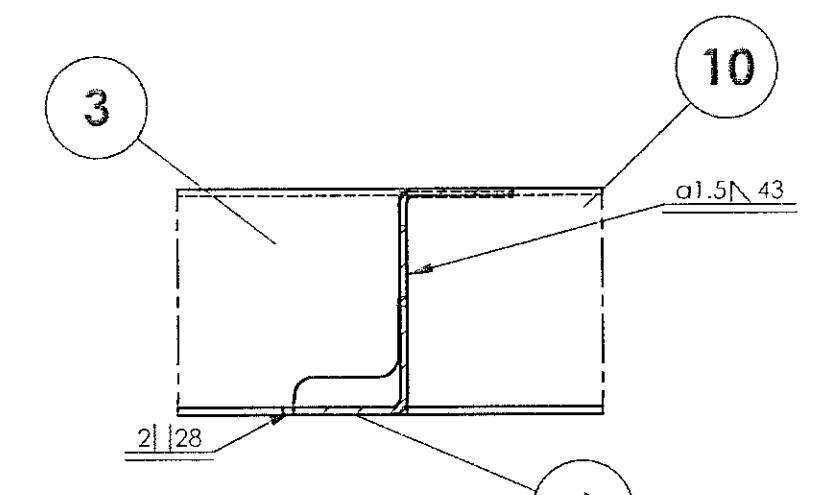
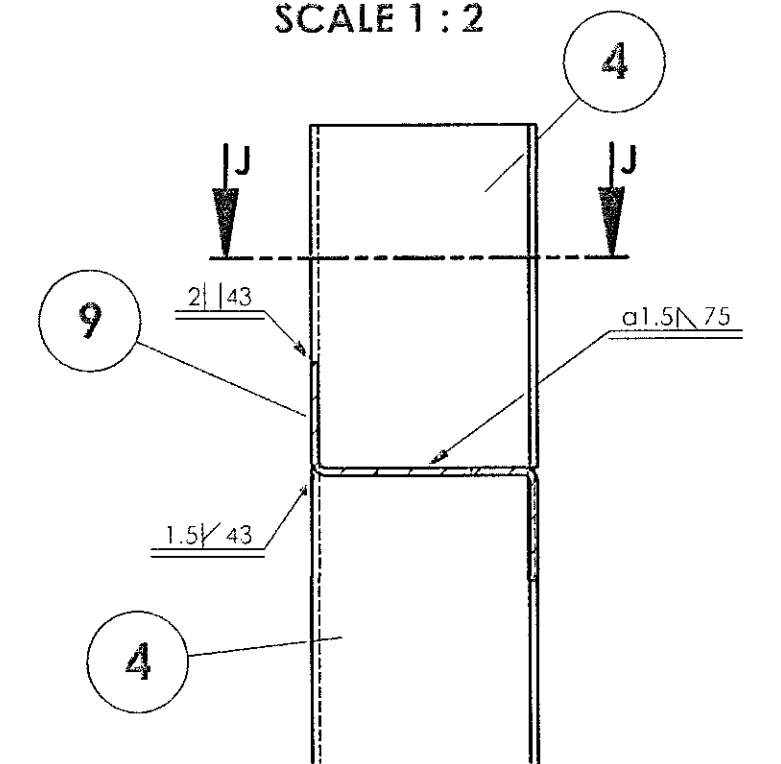
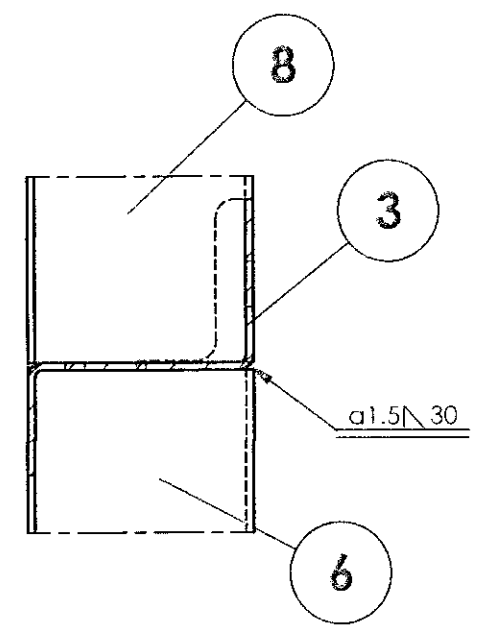
REF.DRG.NO.

49514023

▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

(01) ROUGH CLEANED
(01b) BURRS REMOVED
(01c) CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		VERTICAL PILLAR LOCATING DIMENSION & NOTE ADDED.		

SECTION A-A
SCALE 1:5SECTION B-B
SCALE 1:2SECTION C-C
SCALE 1:2SECTION G-G
SCALE 1:2SECTION D-D
SCALE 1:2SECTION E-E
SCALE 1:2SECTION H-H
SCALE 1:2SECTION F-F
SCALE 1:2SECTION J-J
SCALE 1:2

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	VERTICAL PILLAR		11	AAA14380		0.563	
1	VERTICAL PILLAR		10	AAA14385		1.459	
1	HORIZONTAL MEMBER		9	AAA14373		0.460	
1	HORIZONTAL MEMBER		8	AAA14372		0.505	
1	HORIZONTAL MEMBER		7	AAA14382		2.268	
1	HORIZONTAL MEMBER		6	AAA14383		2.269	
1	HORIZONTAL MEMBER		5	AAA14384		2.275	
1	VERTICAL PILLAR		4	AAA14378		4.066	
1	VERTICAL PILLAR		3	AAA14376		4.066	
1	VERTICAL PILLAR		2	AAA14386		3.936	
1	ROOF FLANGE		1	AAA14381		8.985	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4				SURFACE AREA IN Sq.m.: 3.442		WT/ASSY IN Kgs:	
				SCALE: 1:20		SSE/JO	
						C/D	
						ALT.	
						ALTD	
						DRN	
						VJAYAKUMAR R	
						K.Sethuraman	
						LWGSCWAC2	
						49514023	
						A1	

INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038SHEET
1 OF 1

49514023


A1

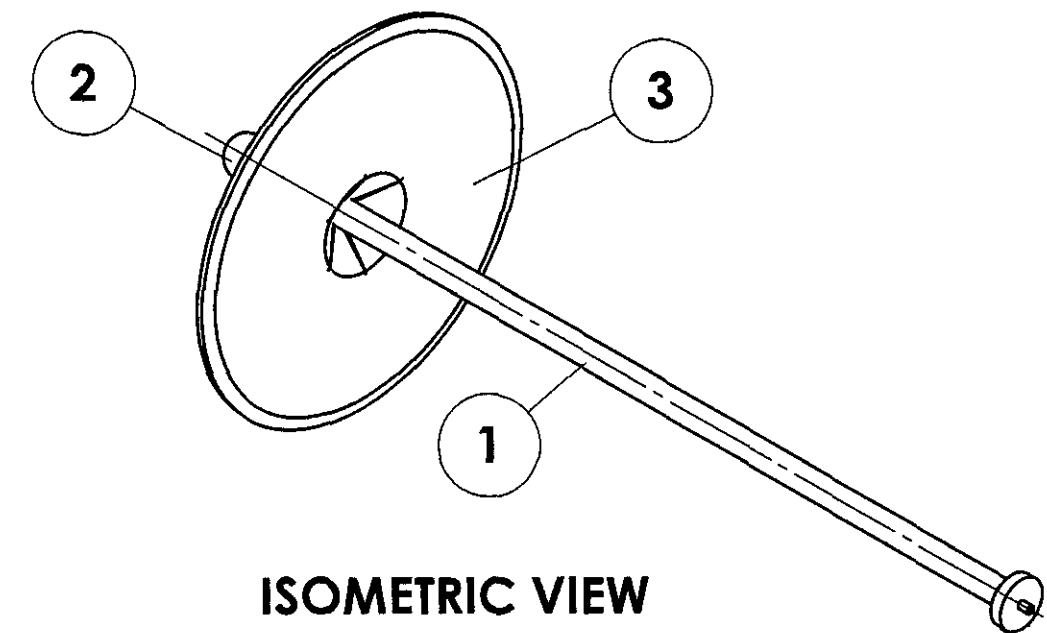
REF.DRG.NO.

08-01-2026 24-12-2009
DATE OF LATEST ALT. DATE OF FIRST ISSUE AWE/SME

49516008

▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	01b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	18 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE REVISED. VIEWS UPDATED AS PER DETAIL.	



ISOMETRIC VIEW

NOTE:

- ITEM-1 TO BE RESISTANCE WELDED AS SHOWN IN THE RESPECTIVE DRAWING AND ITEMS-2&3 TO BE SUPPLIED IN LOOSE (TO BE ASSEMBLED IN FURNISHING AFTER INSERTING THERMAL INSULATION).
- 5% EXCESS QTY OF ITEMS-2&3 TO BE SUPPLIED AGAINST THE QTY CALLED FOR IN THE RESPECTIVE ASSEMBLY DRAWINGS.

1	SERRATED SPRING WASHER		3	AAA16495		0.003	
1	CAP		2	AAA16494		0.000	
1	WELDING PIN		1	AAA16493		0.002	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 ROOF CONSTRUCTION

SURFACE AREA IN Sq.m.:0.002

WT/ASSY IN Kgs:

WELDING PIN ASSEMBLY

SCALE 1:1	SSE/D CHD	
ALT. a	ALTD DRN	A.Palanichamy 3D:A.Palanichamy 2D:P.Murugan

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

LWGSCWAC2

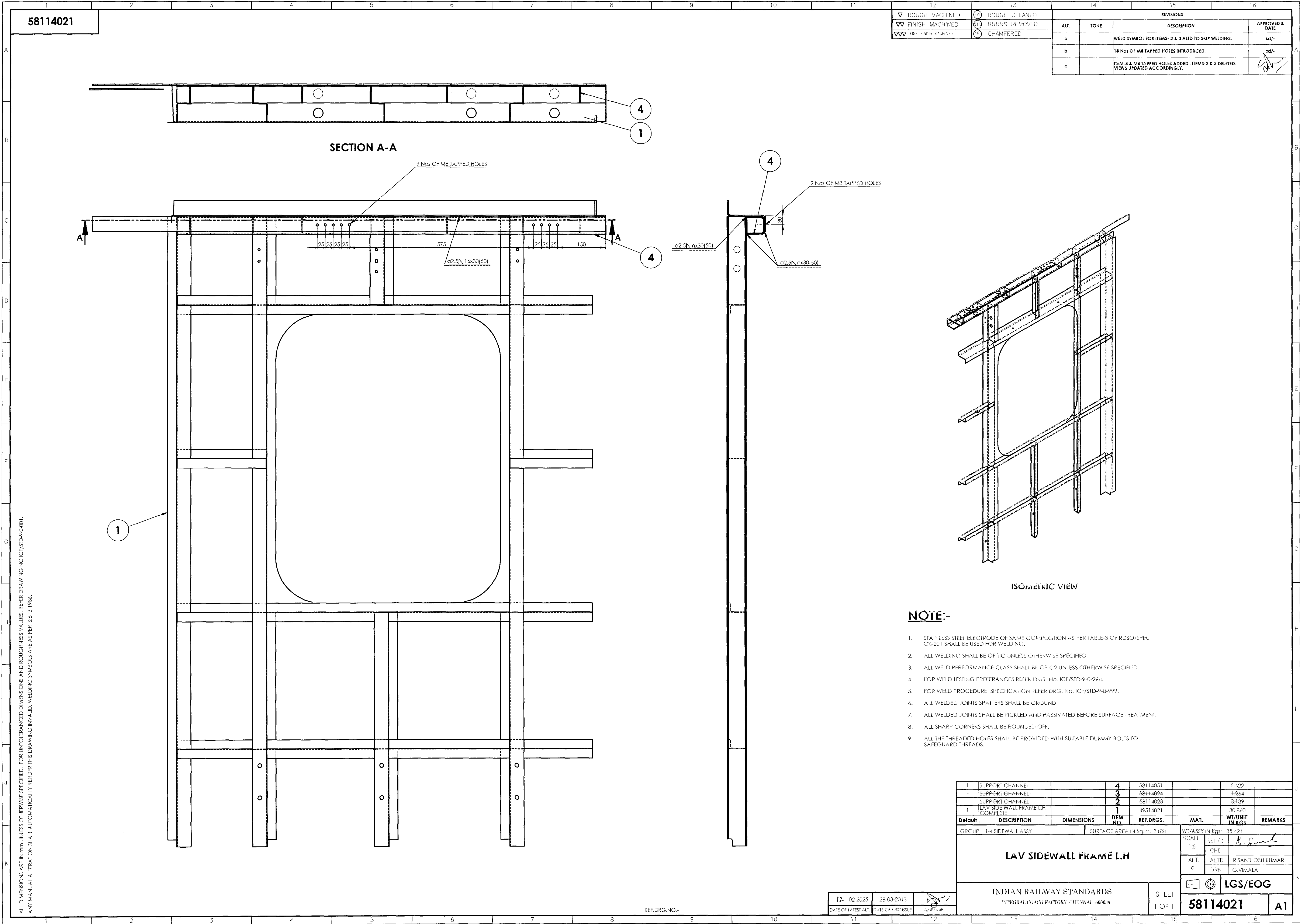
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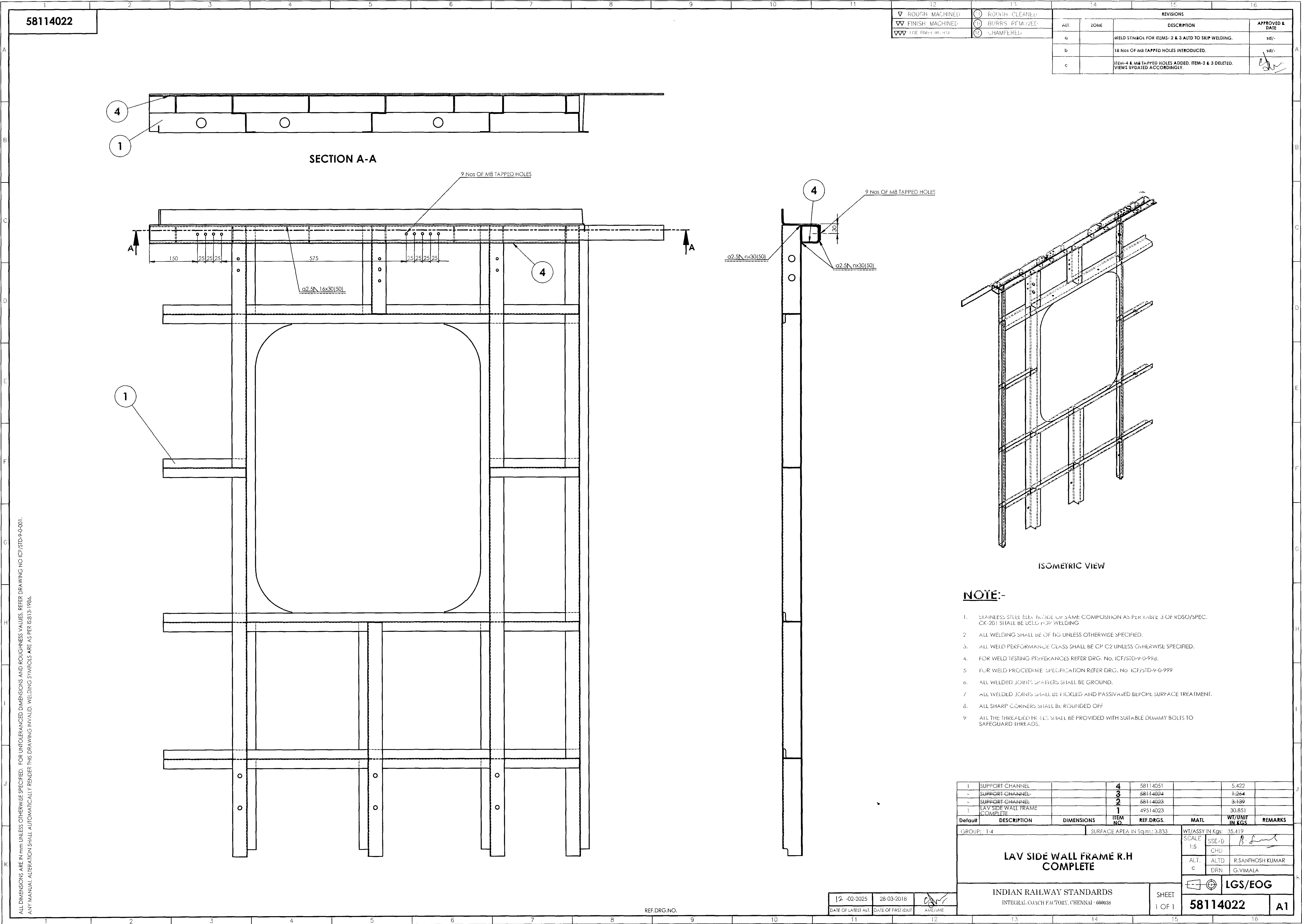
A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.mi005176

06-02-2024	19-07-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

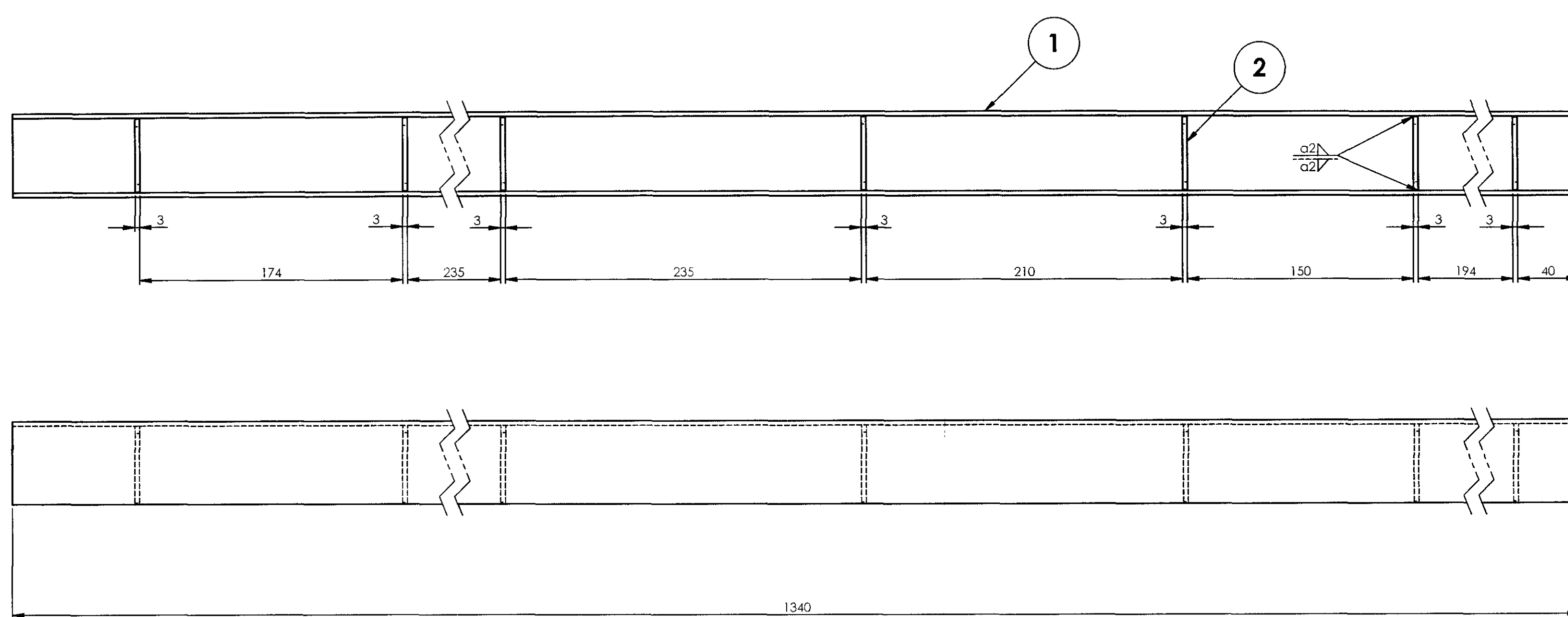




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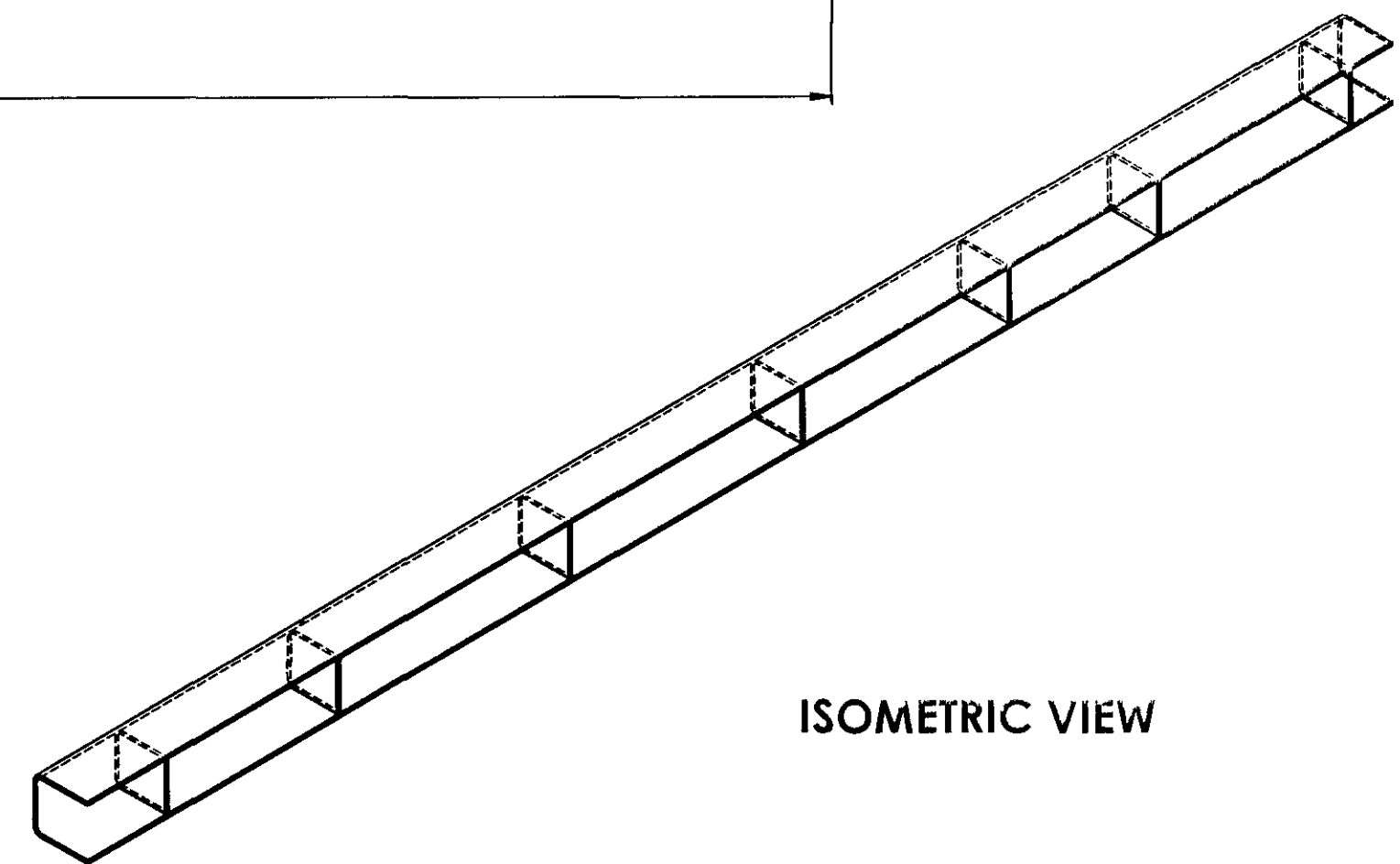
▽ ROUGH MACHINED	⊖ ROUGH CLEANED
▽▽ FINISH MACHINED	⊖⊖ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊖⊖⊖ CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



NOTE:-

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
2. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
3. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
4. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
5. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
6. ALL WELDED JOINTS SPATTERS SHALL BE GROUND.
7. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
8. ALL SHARP CORNERS SHALL BE ROUNDED OFF.



ISOMETRIC VIEW

8	RIB		2	AAA14750		0.061	
1	CHANNEL		1	AAK14209		4.934	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.. 0.464		WT/ASSY IN Kgs:	
SUPPORT CHANNEL					SCALE 1:2.5	SSE/D	B. Senthil
					CHD		
					ALT	ALTD	-
					DRN		R. SANTHOSH KUMAR
INDIAN RAILWAY STANDARDS					LGS/EOG		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	58114051	A2

REF.DRG.NO.58114023

-	12-02-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

58126002

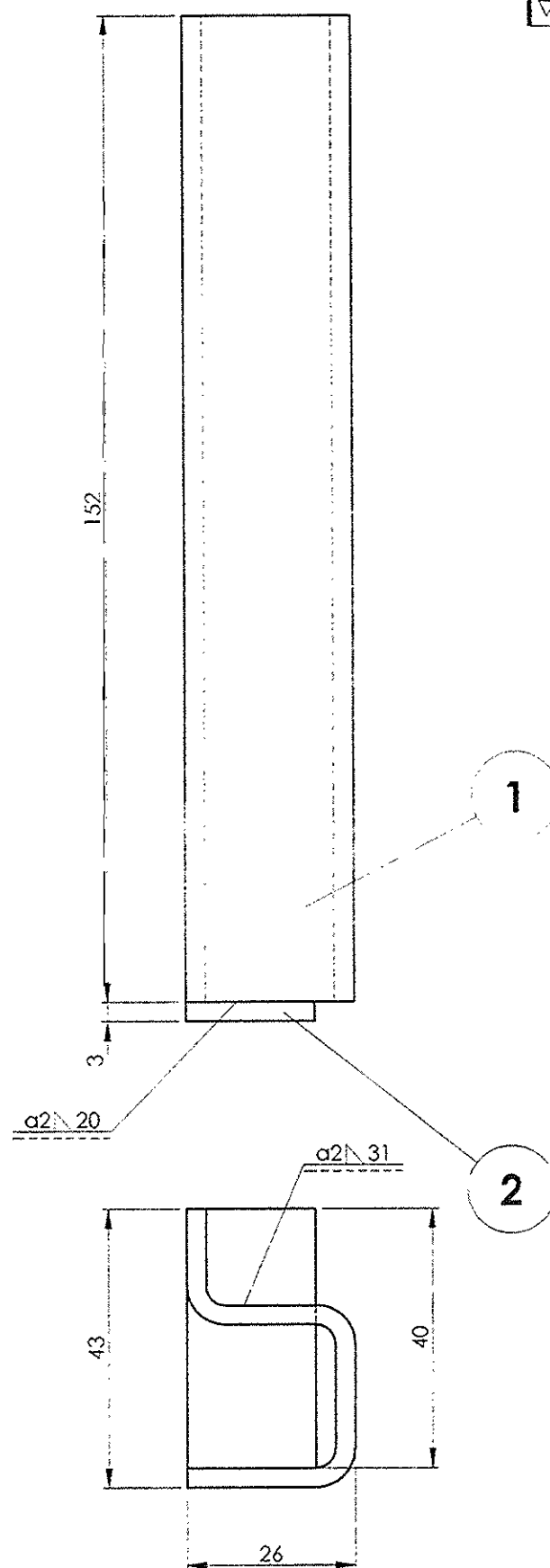
▽ ROUGH MACHINED	⊙ ROUGH CLEANED
▽▽ FINISH MACHINED	⊙ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊙ CHAMFERED

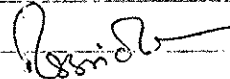

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &
DATE

1	FLAT		2	AAA26073		0.019	
1	CHANNEL		1	AAA26071		0.304	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 2-6		SURFACE AREA IN Sq.m.:0.029			WT/ASSY IN Kgs:0.323		
BRACKET FOR DESTINATION BOARD R.H					SCALE	SSP/D	
					1:1	CHD	
					ALT.	ALTO	
						DRN	3D G.VIMALA 2D Palanichamy
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600008							LGS/EOG
					SHEET 1 OF 1		58126002

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND REFERENCE VALUES, REFER DRAWING NO ICF/SID-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

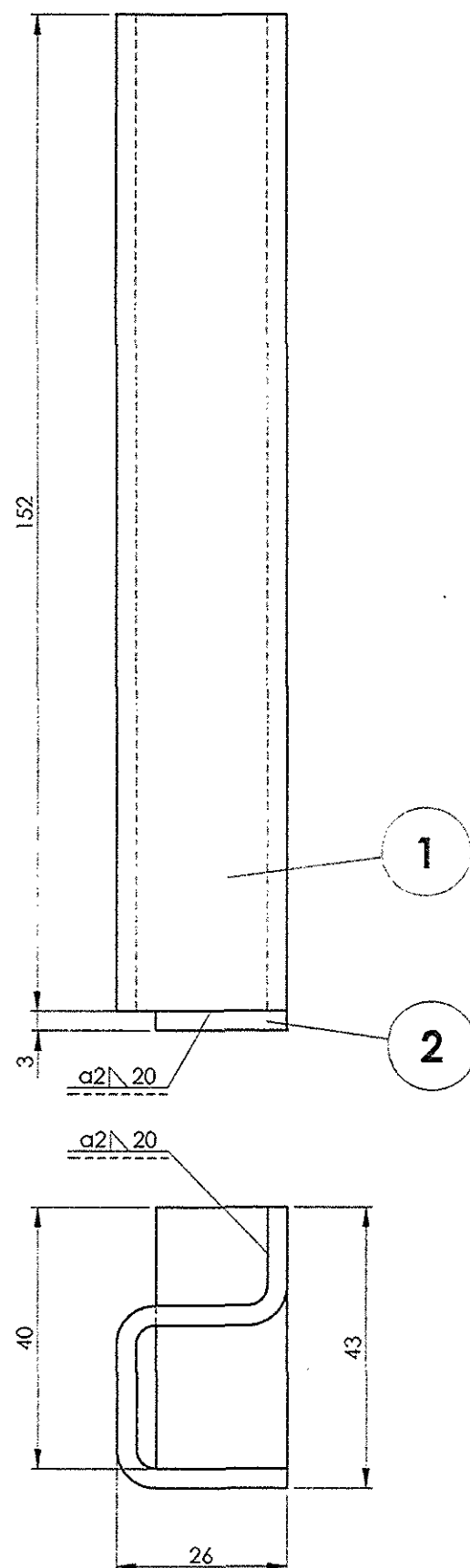
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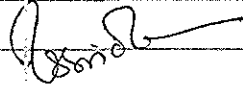
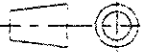
	21-12-12	10219
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

58126003

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		



1	FLAT		2	AAA26073		0.019	
1	CHANNEL		1	AAA26071		0.304	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 2-6		SURFACE AREA IN Sq.m.:0.029			WT/ASSY IN Kgs:0.323		
BRACKET FOR DESTINATION BOARD L.H					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	3D:3.VIMALA 2D Palanichamy
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							LGS/EOG
					SHEET 1 OF 1		
					58126003		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.LG10220

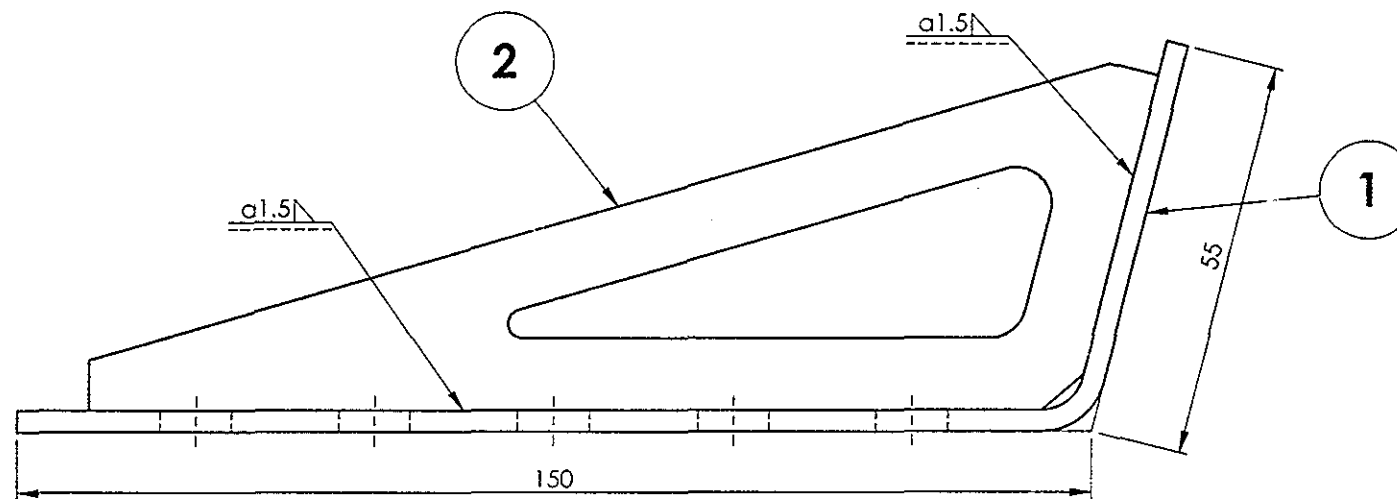
DATE OF LATEST ALT.	2-12-12	AME/SME
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59316012

▽ ROUGH MACHINED	③ ROUGH CLEANED
▽▽ FINISH MACHINED	④ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑤ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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NOTE:

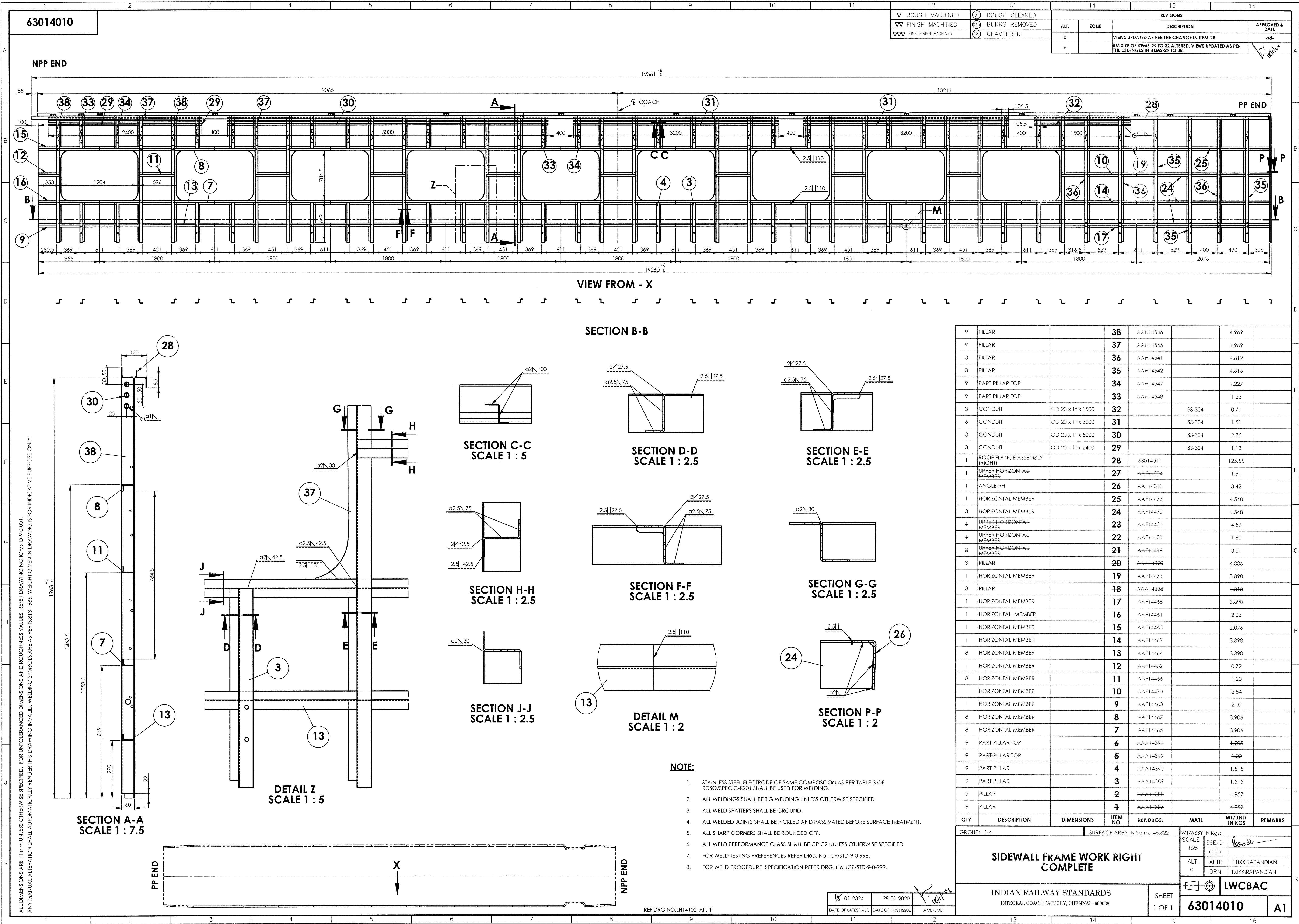
1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
6. ALL BUTT WELDINGS TO BE DONE AT COACH OUTSIDE AND ROUGH GRINDING TO BE DONE ON THE SAME SIDE. PENETRATION SHOULD NOT BE GROUND.

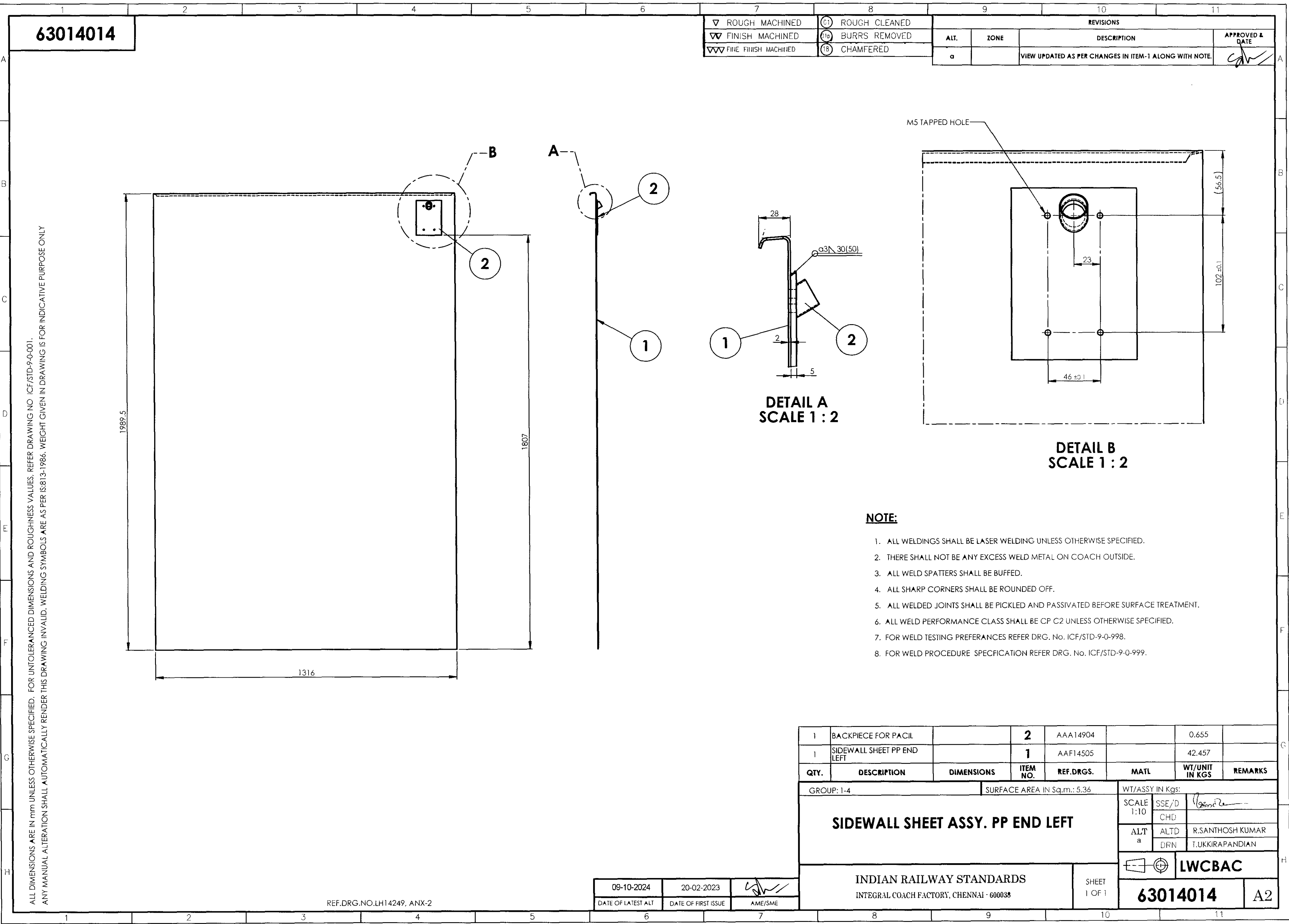
1	WEB		2	AAA16915		0.070	
1	ANGLE		1	AAA16916		0.336	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY				SURFACE AREA IN Sq.m.:0.039		WT/ASSY IN Kgs:0.406	
BRACKET COMPLETE					SCALE	SSE/D	K.Sriram
					1:1	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS					DRN	K.Sriram	
					LWSCWAC/EOG		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	59316012	A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.3.10113.0.20.095.017

	22-03-2013	10/22/13
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME





63014014

REVISIONS		APPROVED & DATE	
ALT.	ZONE	DESCRIPTION	
a		VIEW UPDATED AS PER CHANGES IN ITEM-1 ALONG WITH NOTE.	

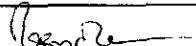
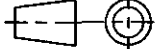
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

MS TAPPED HOLE

DETAIL A
SCALE 1 : 2

DETAIL B
SCALE 1 : 2

- NOTE:**
1. ALL WELDINGS SHALL BE LASER WELDING UNLESS OTHERWISE SPECIFIED.
 2. THERE SHALL NOT BE ANY EXCESS WELD METAL ON COACH OUTSIDE.
 3. ALL WELD SPATTERS SHALL BE BUFFED.
 4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
 5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
 6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
 7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
 8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	BACKPIECE FOR PACIL		2	AAA14904		0.655	
1	SIDEWALL SHEET PP END LEFT		1	AAF14505		42.457	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.: 5.36			WT/ASSY IN Kgs:		
SIDEWALL SHEET ASSY. PP END LEFT					SCALE 1:10	SSE/D	
						CHD	
					ALT a	ALTD	R.SANTHOSH KUMAR
						DRN	T.UKKIRAPANDIAN
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		LWCBAC	
						63014014	
							A2

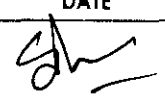
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

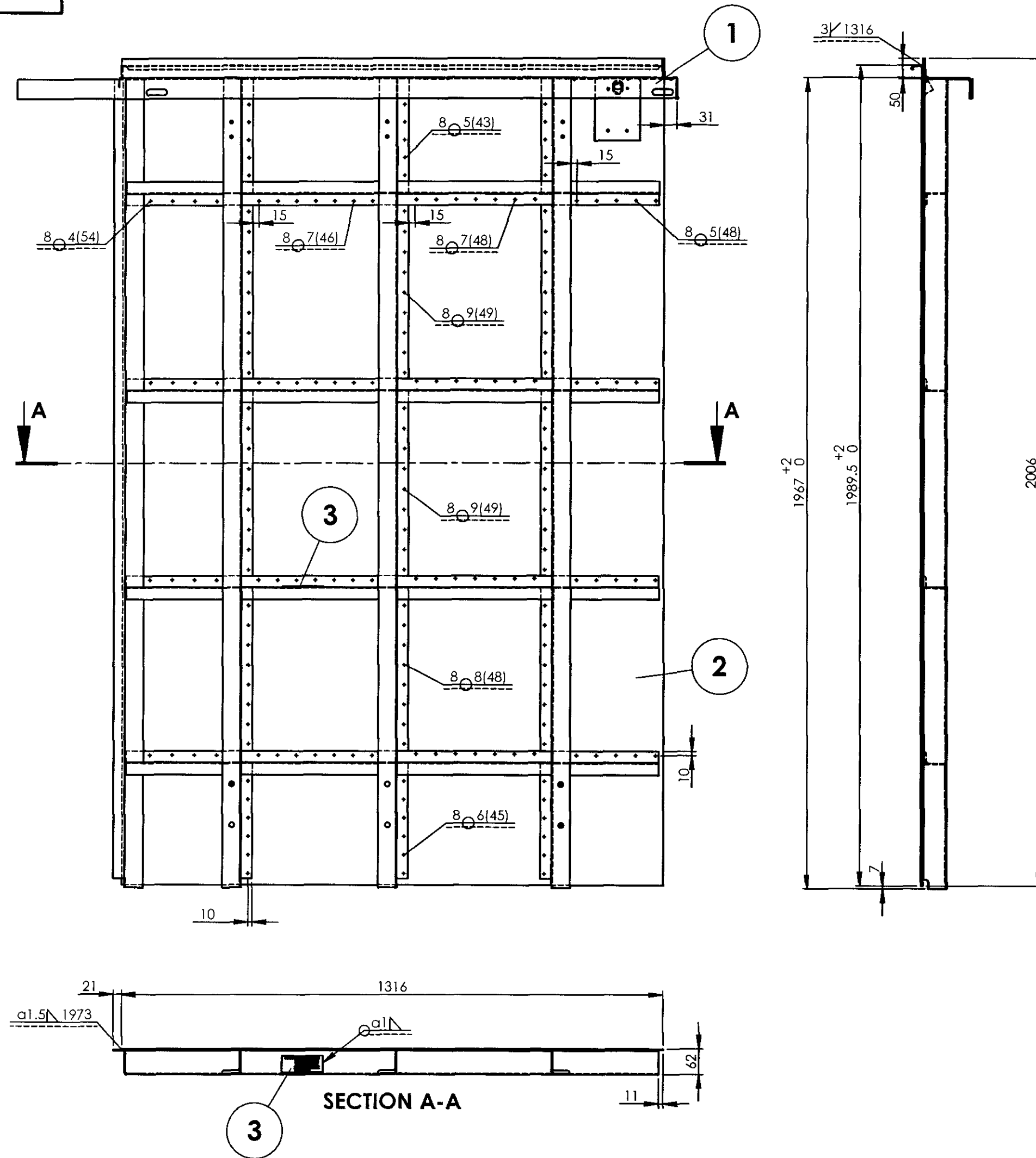
REF.DRG.NO.LH14249, ANX-2

09-10-2024	20-02-2023	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

63014015

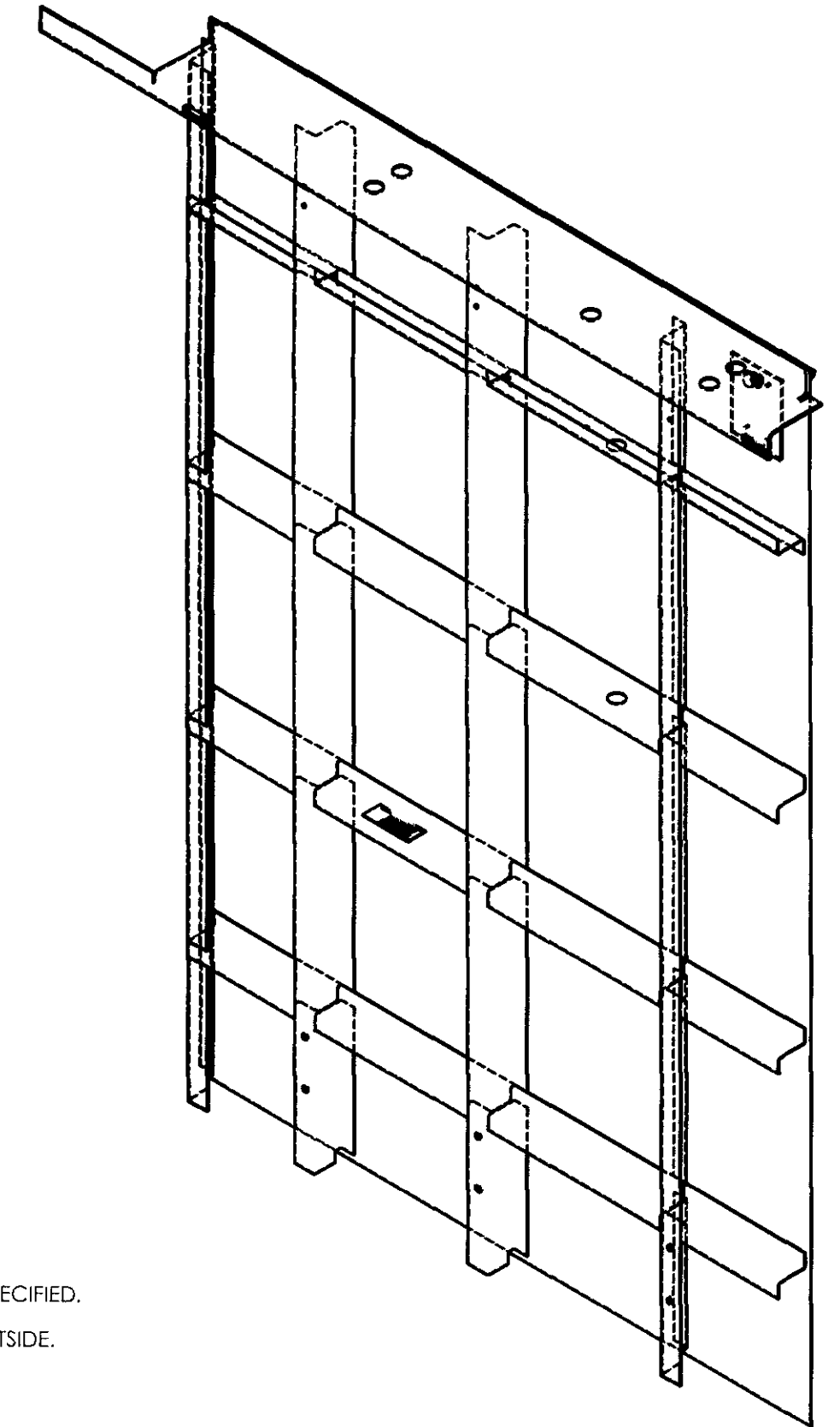
▽ ROUGH MACHINED	⊙ ROUGH CLEANED
▽▽ FINISH MACHINED	⊙ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊙ CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		VIEWS UPDATED AS PER CHANGES IN ITEM-2 ALONG WITH NOTE. SPOT WELDING DIA. ALTERED TO 8mm.	

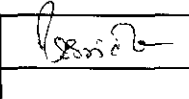


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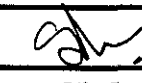
1. ALL WELDINGS SHALL BE LASER WELDING UNLESS OTHERWISE SPECIFIED.
2. THERE SHALL NOT BE ANY EXCESS WELD METAL ON COACH OUTSIDE.
3. ALL WELD SPATTERS SHALL BE BUFFED.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.



ISOMETRIC VIEW

1	NAME PLATE		3	AAA51072		0.063	
1	SIDEWALL SHEET ASSY. PP END LEFT		2	63014014		43109.34	
1	SIDEWALL FRAME WORK LEFT COMPLETE (PP END)		1	63014016		39.561	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 SIDEWALL COMPLETE				SURFACE AREA IN Sq.m.: 9.084		WT/ASSY IN Kgs:	
SIDEWALL PP END LEFT COMPLETE					SCALE 1:10	SSE/D	
						CHD	
					ALT a	ALTD	R.SANTHOSH KUMAR
						DRN	T.UKKIRAPANDIAN
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					63014015		
					A2		

REF.DRG.NO.LH14248, ANX-2

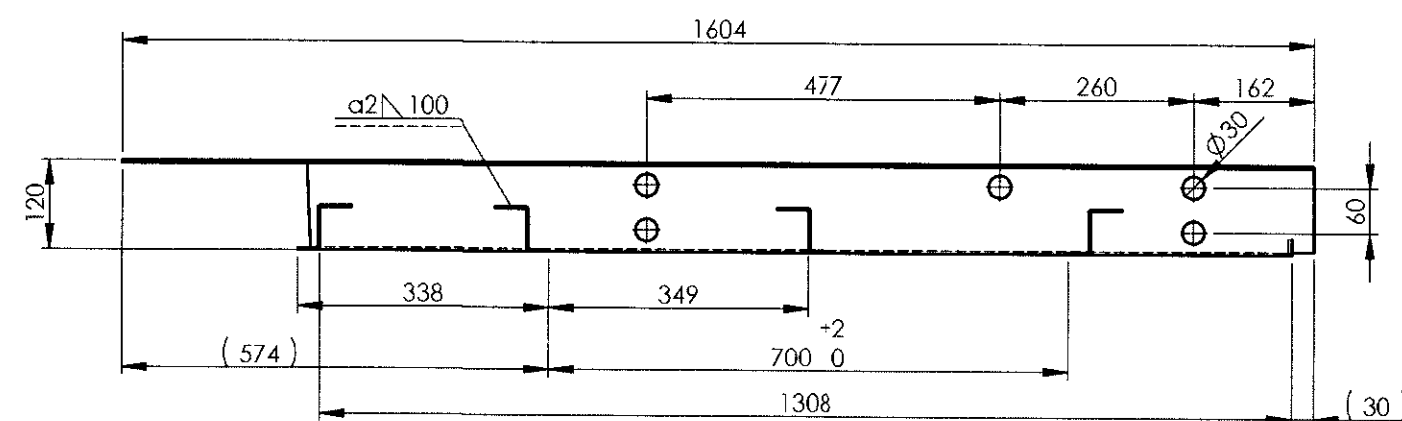
09-10-2024	20-02-2023	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

63014016

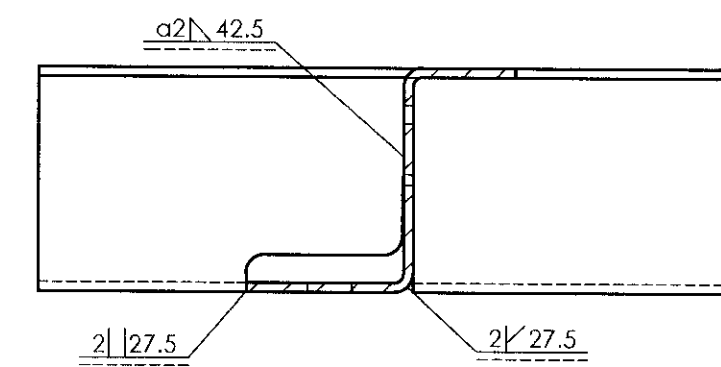
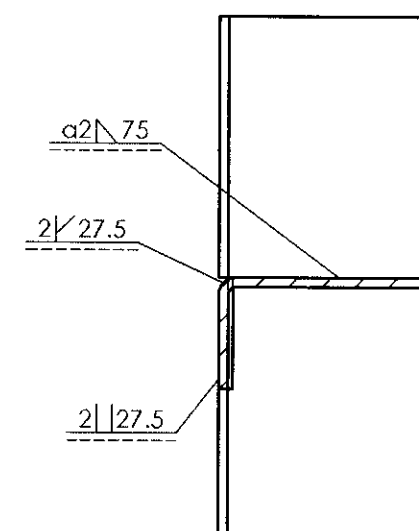
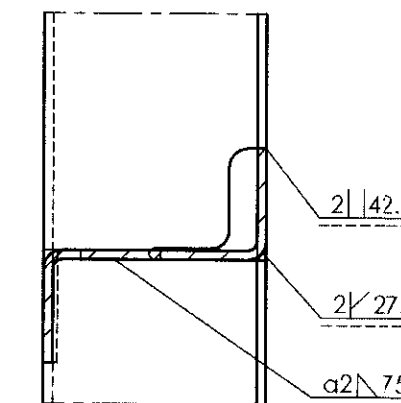
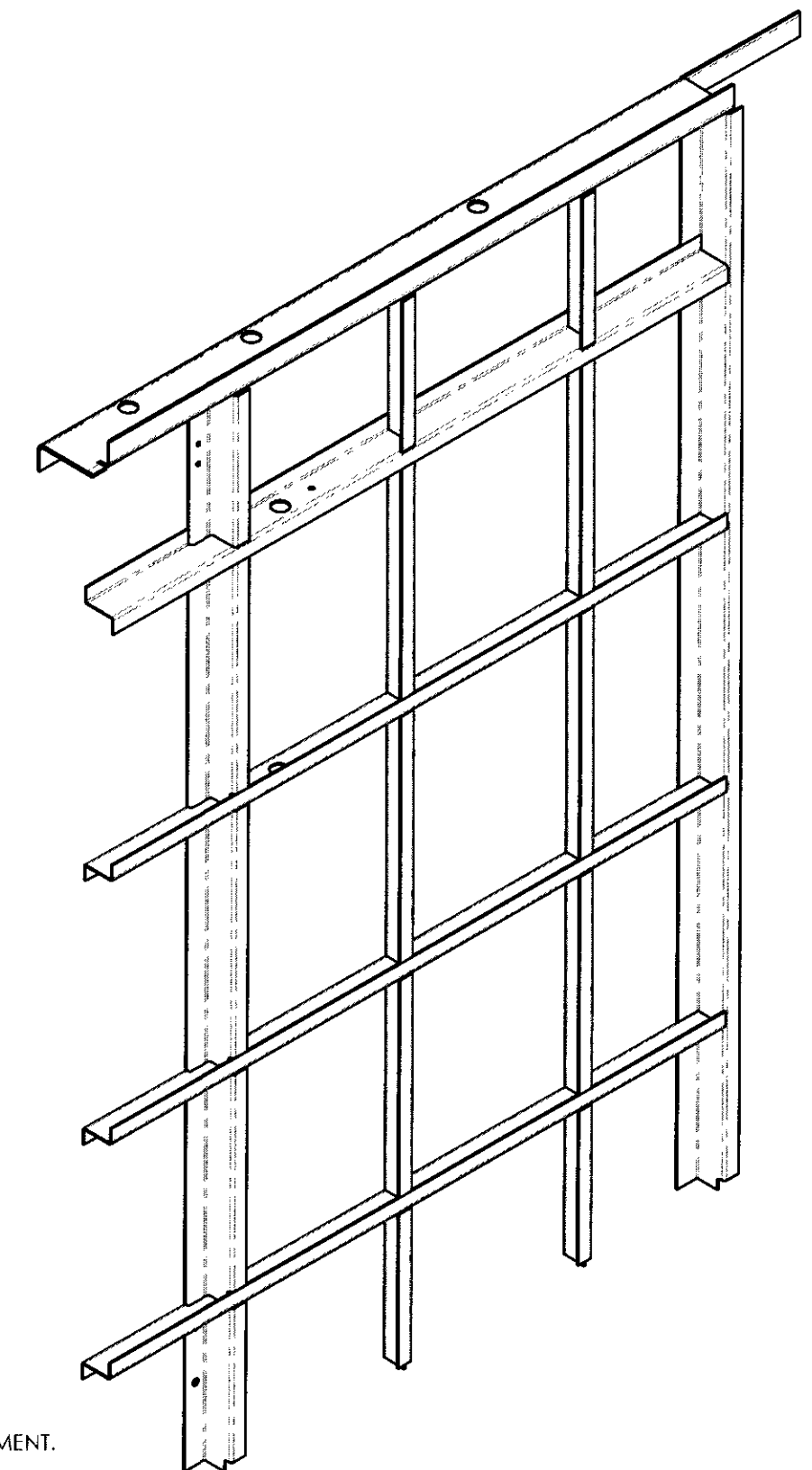
▽ ROUGH MACHINED	⊕ ROUGH CLEANED
▽ FINISH MACHINED	⊖ BURRS REMOVED
▽ FINE FINISH MACHINED	⊙ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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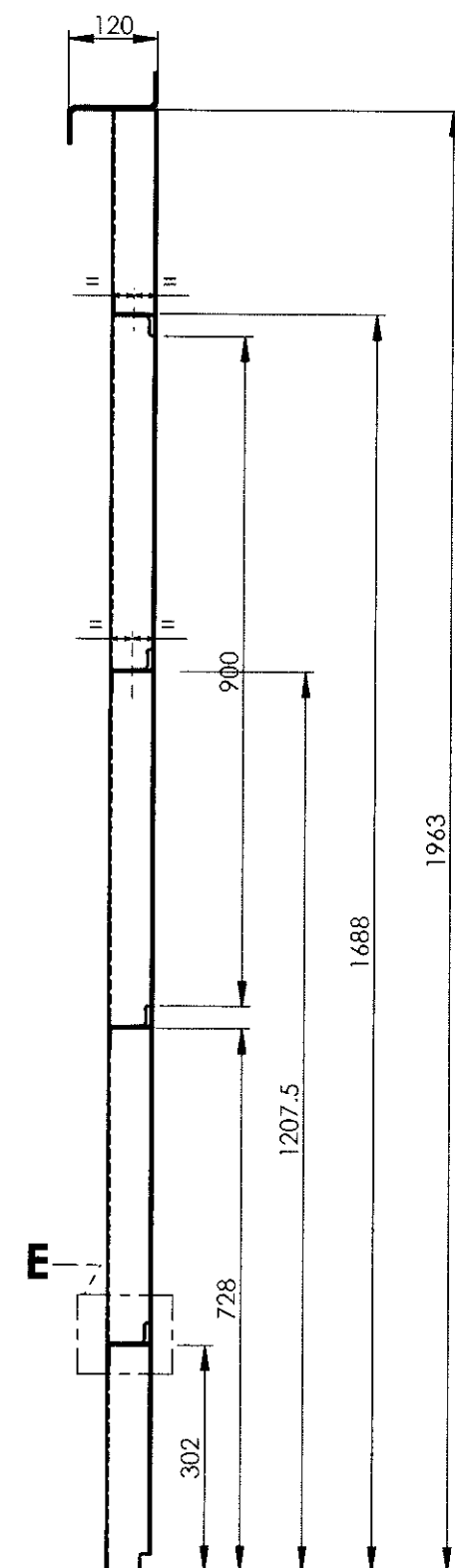
SECTION C-C

SECTION D-D
SCALE 1 : 2SECTION G-G
SCALE 1 : 2DETAIL E
SCALE 1 : 2

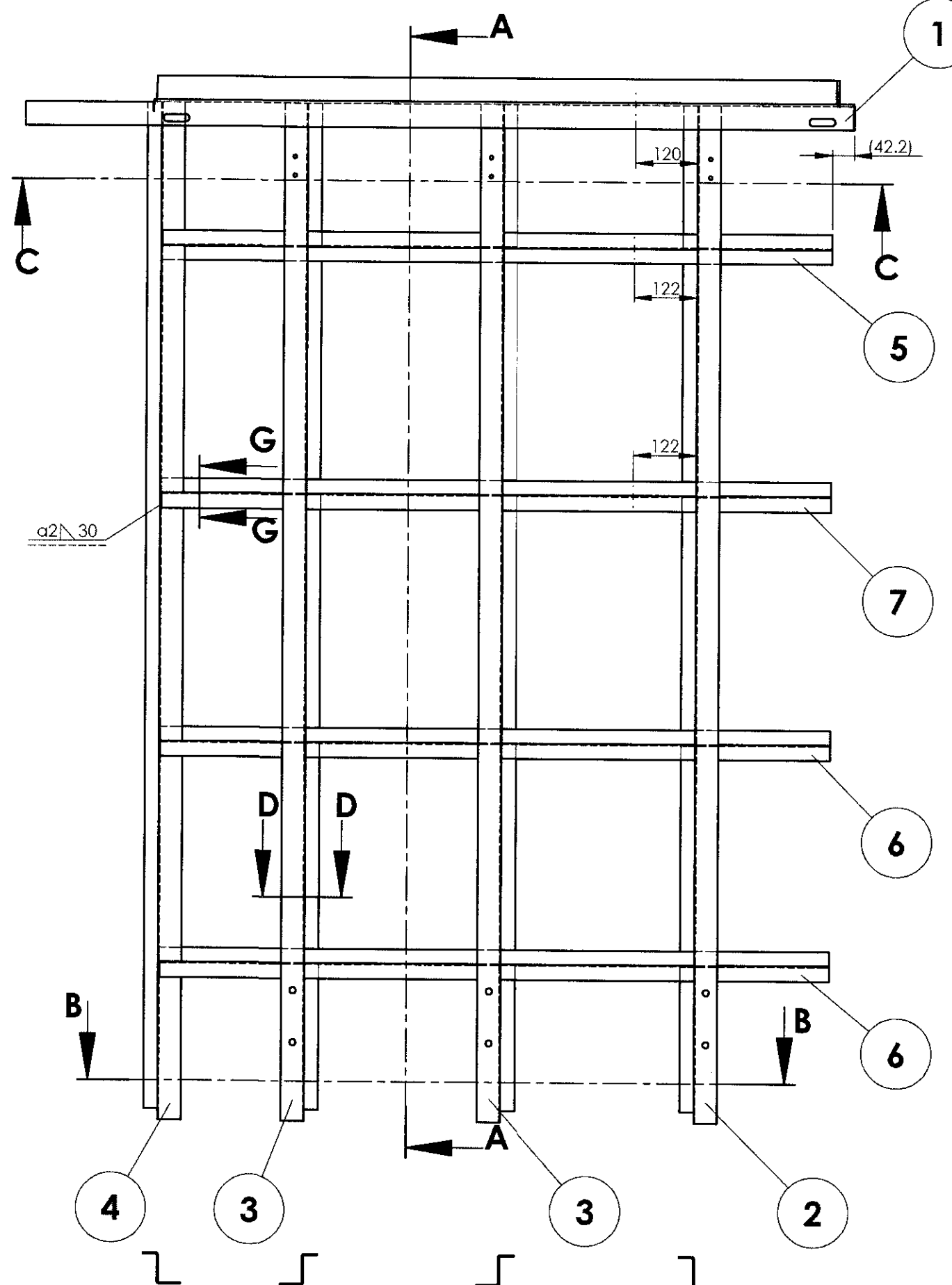
ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELD SPATTERS SHALL BE GROUND.
3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.



SECTION A-A



SECTION B-B

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
1	HORIZONTAL MEMBER		7	AAD14186		2.782	
2	HORIZONTAL MEMBER		6	AAA14949		2.796	
1	HORIZONTAL MEMBER		5	AAA14953		2.781	
1	PILLAR		4	AAA14938		4.854	
2	PILLAR		3	AAA14932		4.862	
1	PILLAR		2	AAA14931		4.862	
1	ROOF FLANGE		1	AAF14738		8.964	

GROUP: 1-4

SURFACE AREA IN Sq.m.: 3.716

WT/ASSY IN Kgs:

SIDEWALL FRAME WORK LEFT
COMPLETE (PP END)SCALE
1:10

SSE/D

CHD

ALT

ALTD

DRN

T.UKKIRAPANDIAN

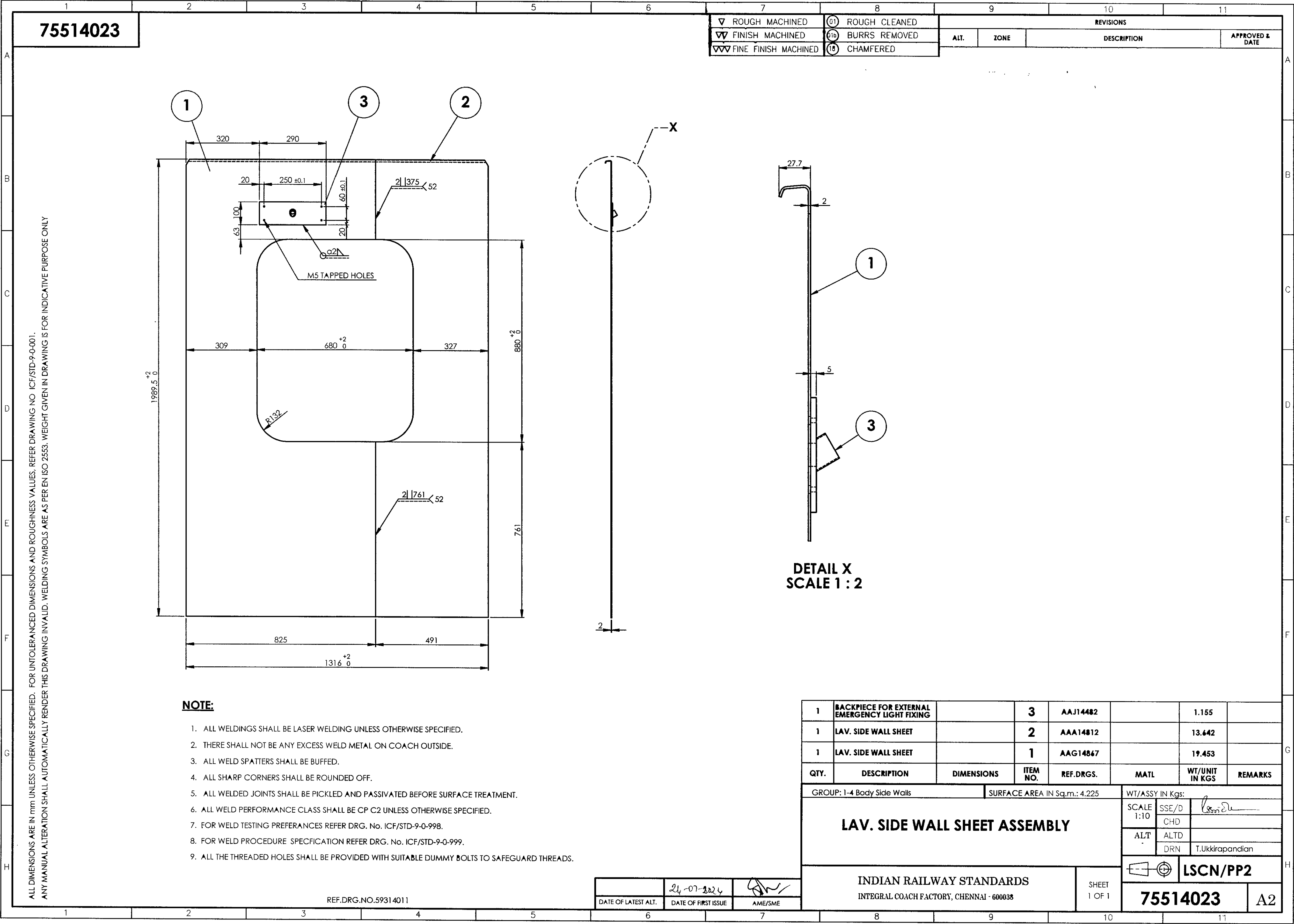
INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038SHEET
1 OF 1

63014016

A2

REF.DRG.NO.

DATE OF LATEST ALT.	20-02-2020	AME/SME
DATE OF FIRST ISSUE		



75514023

▽ ROUGH MACHINED	① ROUGH CLEANED
▽ FINISH MACHINED	①b BURRS REMOVED
▽ FINE FINISH MACHINED	①b CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			

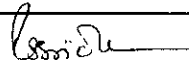

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

NOTE:

1. ALL WELDINGS SHALL BE LASER WELDING UNLESS OTHERWISE SPECIFIED.
2. THERE SHALL NOT BE ANY EXCESS WELD METAL ON COACH OUTSIDE.
3. ALL WELD SPATTERS SHALL BE BUFFED.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. ALL THE THREADED HOLES SHALL BE PROVIDED WITH SUITABLE DUMMY BOLTS TO SAFEGUARD THREADS.

REF.DRG.NO.59314011

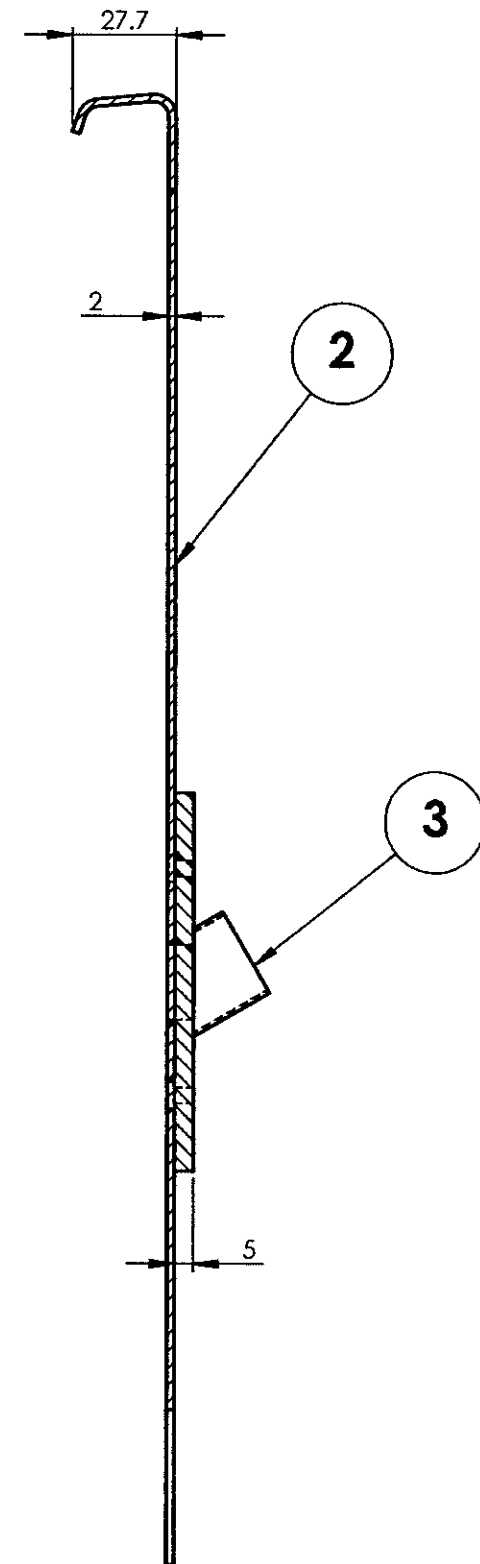
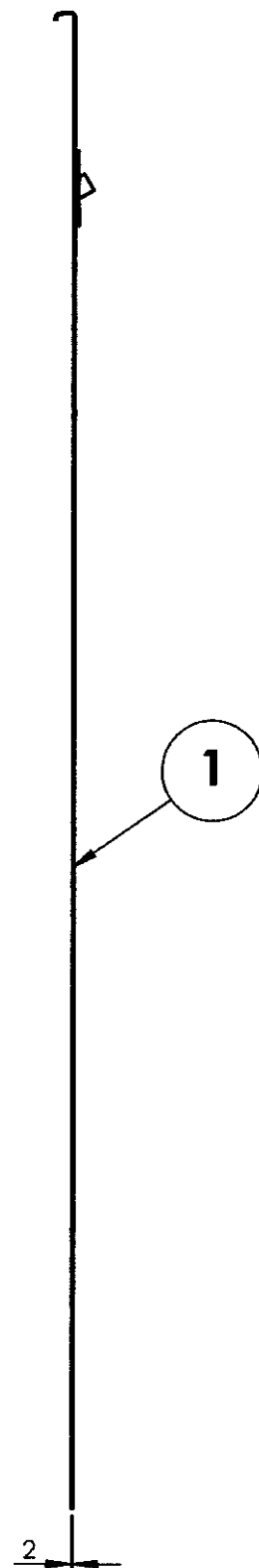
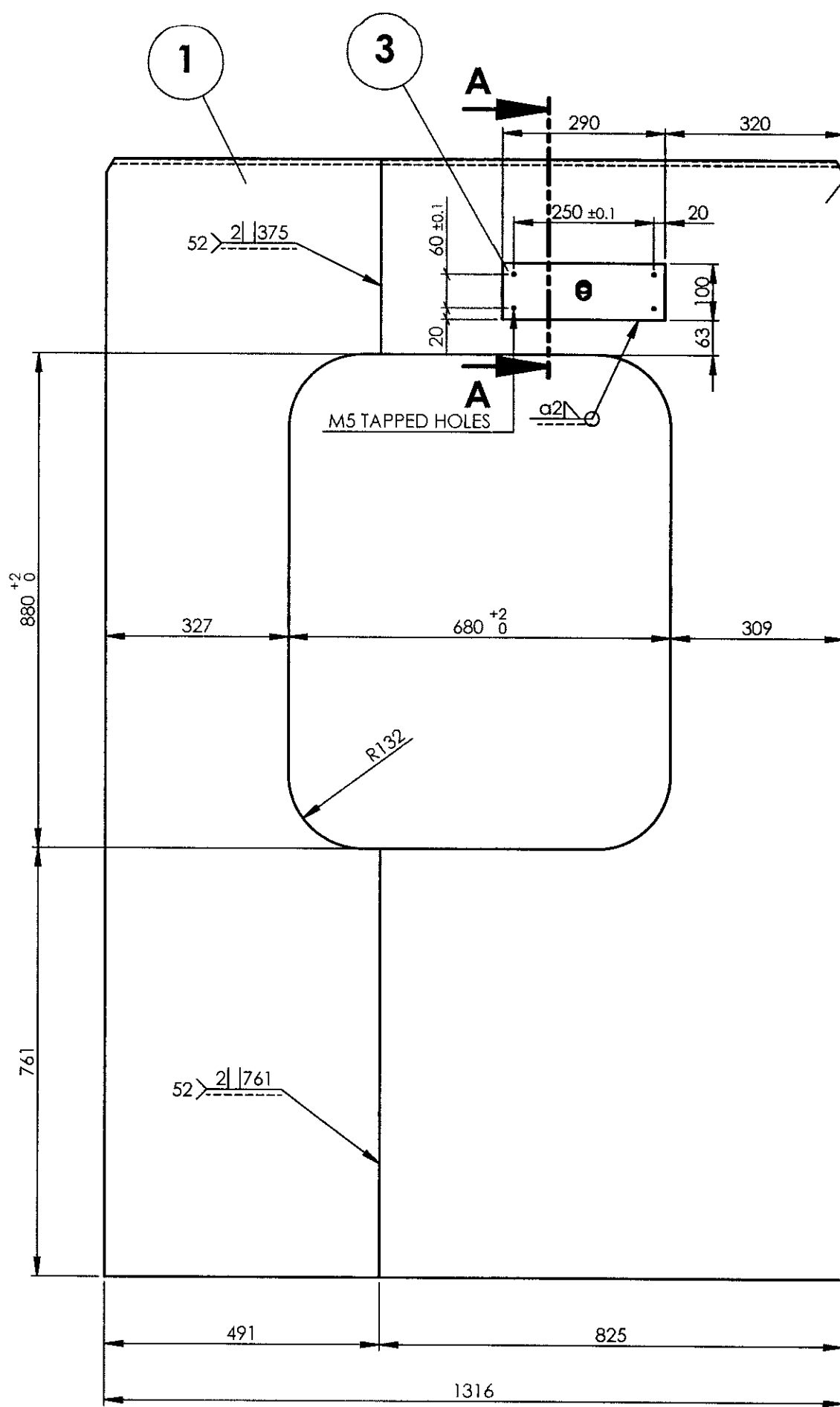
DATE OF LATEST ALT.	24-07-2024	AME/SME
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1	BACKPIECE FOR EXTERNAL EMERGENCY LIGHT FIXING		3	AAJ14482		1.155	
1	LAV. SIDE WALL SHEET		2	AAA14812		13.642	
1	LAV. SIDE WALL SHEET		1	AAG14867		19.453	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.: 4.225			WT/ASSY IN Kgs:		
LAV. SIDE WALL SHEET ASSEMBLY					SCALE 1:10	SSE/D	
						CHD	
					ALT	ALTD	T. Ukkirapandian
						DRN	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600035					LSCN/PP2		
					75514023		
				SHEET 1 OF 1	A2		

75514024

▽ ROUGH MACHINED	ⓐ1 ROUGH CLEANED
▽▽ FINISH MACHINED	ⓐ1b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	ⓐ1c CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			

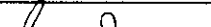



SECTION A-A
SCALE 1 : 2

NOTE:

1. ALL WELDINGS SHALL BE LASER WELDING UNLESS OTHERWISE SPECIFIED.
2. THERE SHALL NOT BE ANY EXCESS WELD METAL ON COACH OUTSIDE.
3. ALL WELD SPATTERS SHALL BE BUFFED.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. ALL THE THREADED HOLES SHALL BE PROVIDED WITH SUITABLE DUMMY BOLTS TO SAFEGUARD THREADS.

1	BACKPIECE FOR EXTERNAL EMERGENCY LIGHT FIXING		3	AAJ14482		1.155	
1	LAV. SIDE WALL SHEET		2	AAG14869		19.453	
1	LAV. SIDE WALL SHEET		1	AAA14810		13.642	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

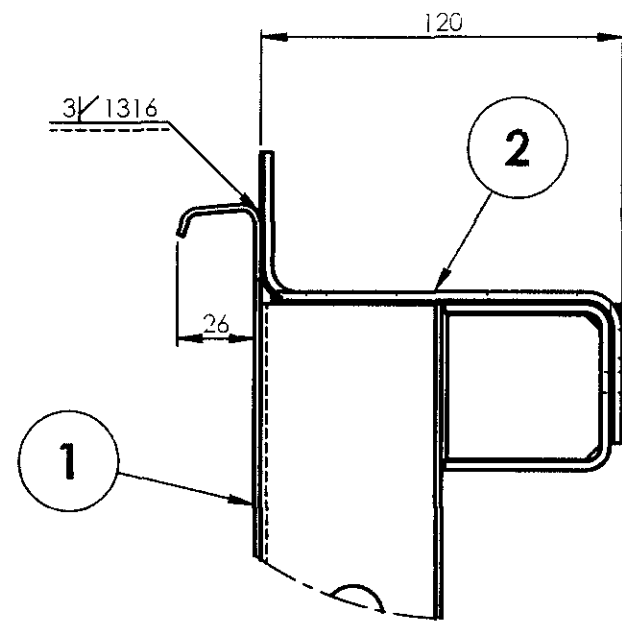
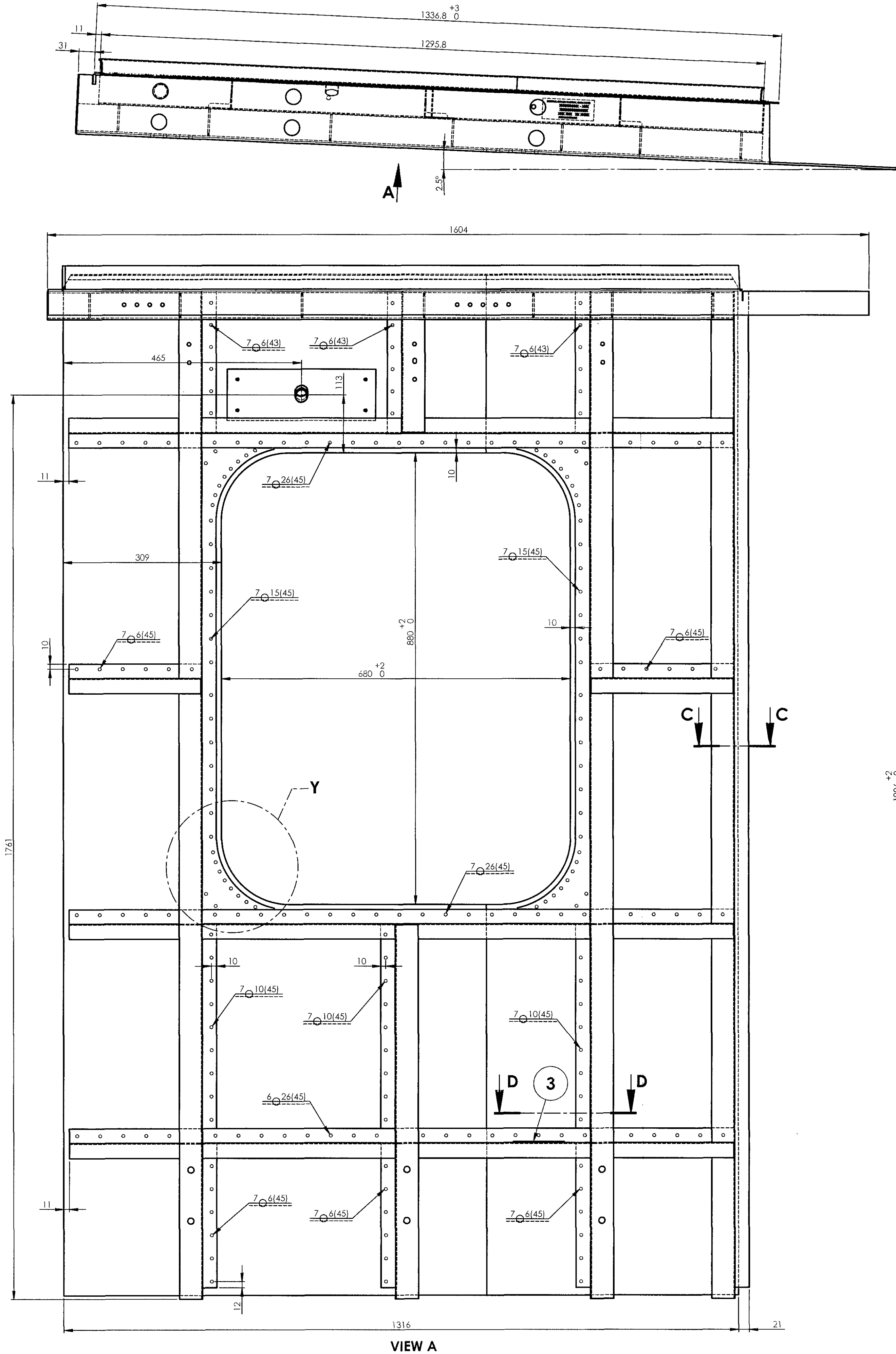
GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.: 4.163		WT/ASSY IN Kgs:	
LAV SIDE WALL SHEET ASSEMBLY				SCALE 1:10	SSE/D 
				CHD	
				ALT	ALTD
				DRN	T.Ukkirapandian
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					LSCN/PP2
					75514024
				SHEET 1 OF 1	A2

DATE OF LATEST ALT.	24-07-2024	AME/SME
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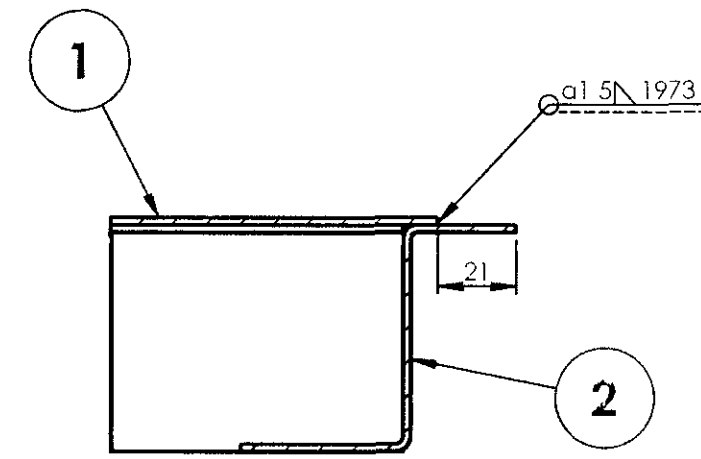
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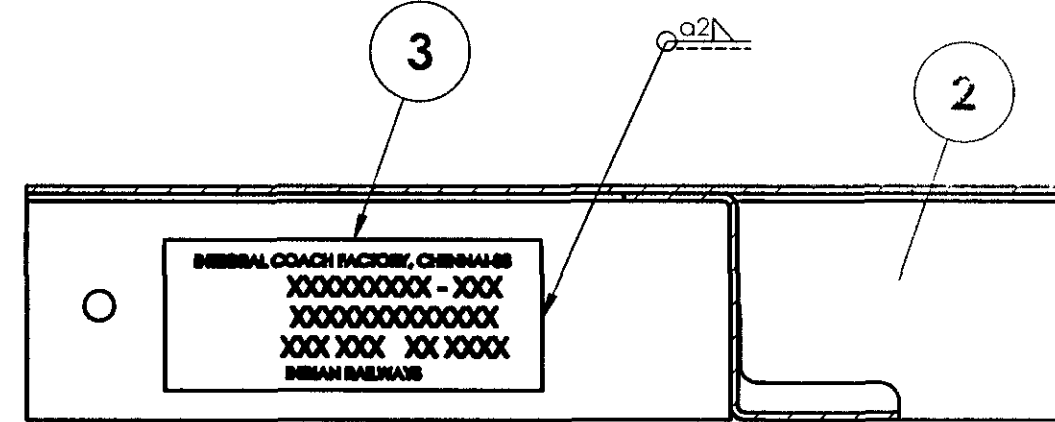
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▽ ROUGH MACHINED		① ROUGH CLEANED		ALT		ZONE		REVISIONS	
▽▽ FINISH MACHINED		② BURRS REMOVED						DESCRIPTION	
▽▽▽ FINE FINISH MACHINED		③ CHAMFERED						APPROVED & DATE	
				a				VIEWS UPDATED AS PER CHANGE IN ITEM-2.	



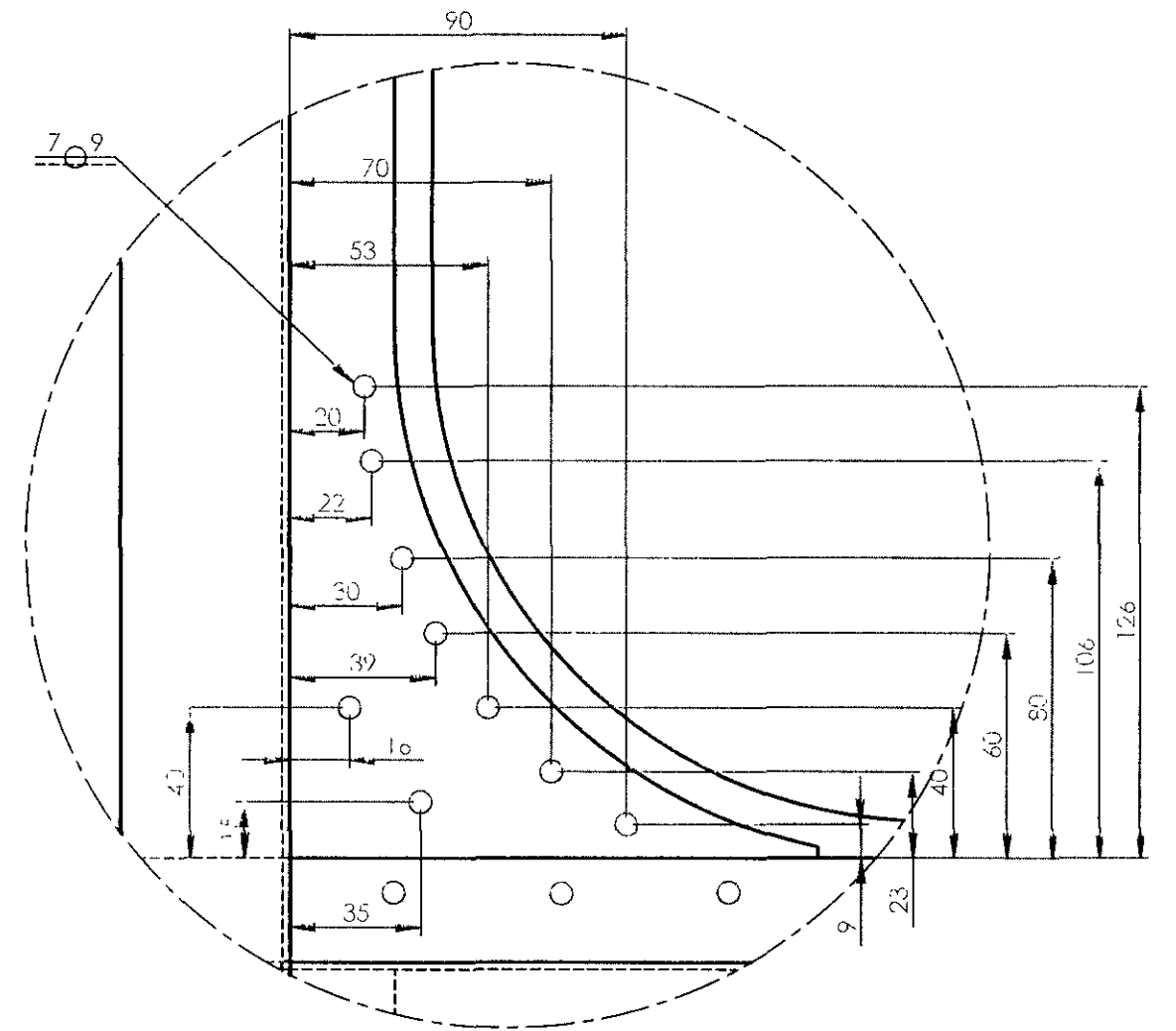
DETAIL B
SCALE 2 : 5



SECTION C-C
SCALE 1 : 2



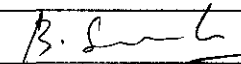
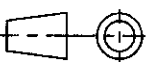
SECTION D-D
SCALE 1 : 2



DETAIL Y
SCALE 1 : 2

NOTE:


1. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE 3 OF RDSO/SPEC C-8201 SHALL BE USED FOR WELDING.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.
7. ITEM-3 (NAME PLATE) SHALL BE WELDED OR RIVETTED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
8. ALL WELD PERFORMANCE CLASSES SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
9. FOR WELD TESTING REFERENCES REFER DRG. NO. ICF/STD-9-0-996.
10. FOR WELD PROCEDURE SPECIFICATION REFER DRG. NO. ICF/STD-9-0-999.

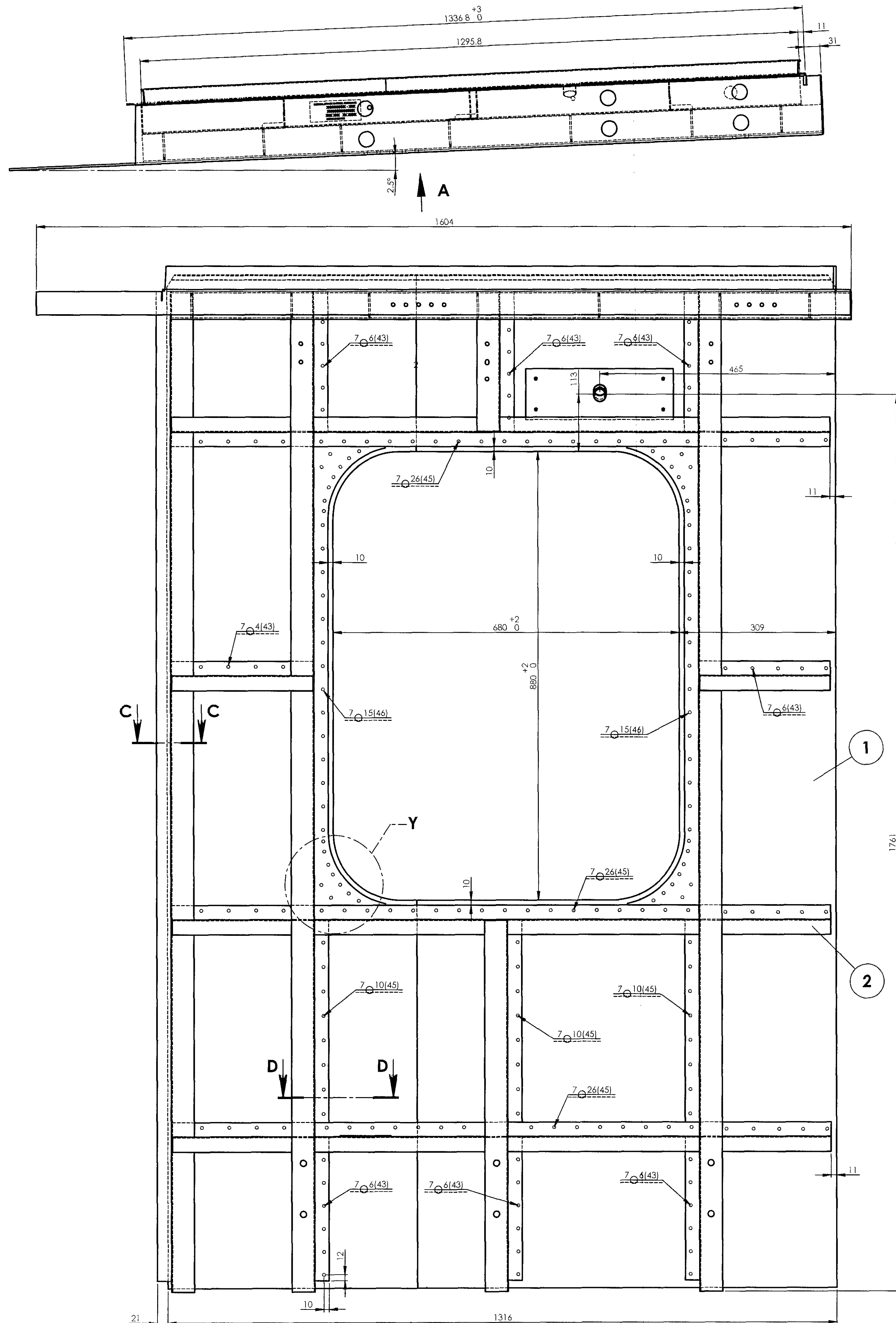
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		3	AAA51072		0.043	
1	LAV SIDE WALL FRAME COMPLETE		2	58114022		34.254	
1	LAV. SIDE WALL SHEET ASSEMBLY		1	75514023		34.250	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls			SURFACE AREA IN Sq.m.: 3.068		WT/ASSY IN Kgs:		
LAV SIDEWALL COMPLETE (LEFT) NPP END					SCALE		
					1:5		
					SSE-D	R.SANTHOSH KUMAR	
					CHD		
					ALT.	ALTD	
a	Di-N	T.Ukkirapandian					
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						LSCN/PP2	
SHEET 1 OF 1					75514027		A1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

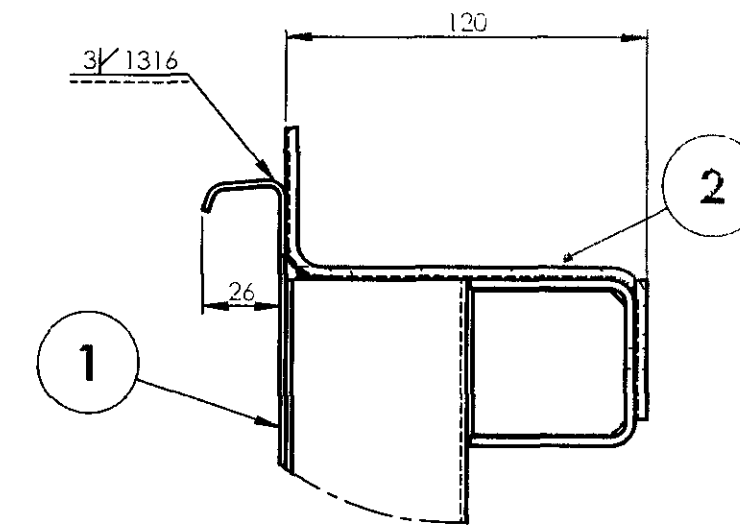
REF.DRG.NO.75214013

75514028

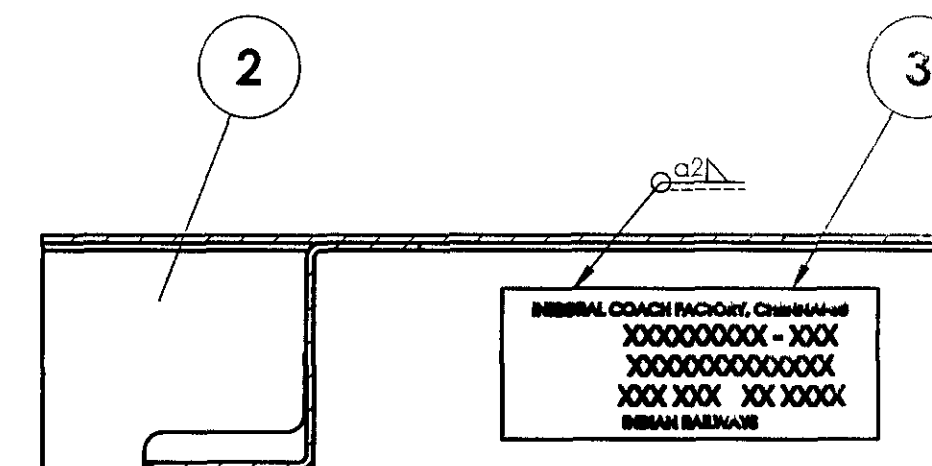
12		13		14		15		16	
▽ ROUGH MACHINED		○ ROUGH CLEANED		REVISIONS					
▽▽ FINISH MACHINED		⊖ BURRS REMOVED		ALT.	ZONE	DESCRIPTION			APPROVED & DATE
▽▽▽ FINE FINISH MACHINED		⊖ CHAMFERED		u		VIEWS UPDATED AS PER CHANGE IN ITEM-2.			



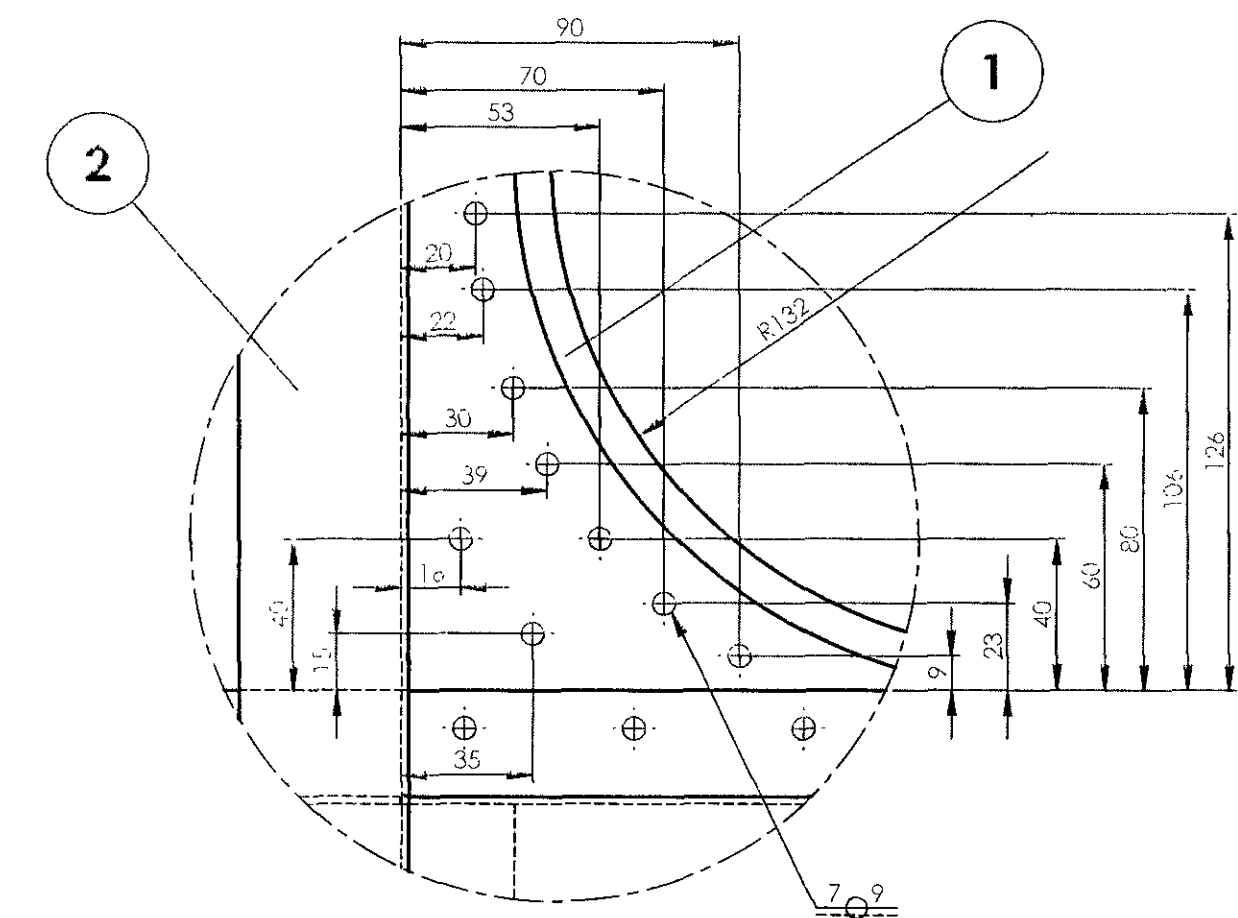
VIEW A



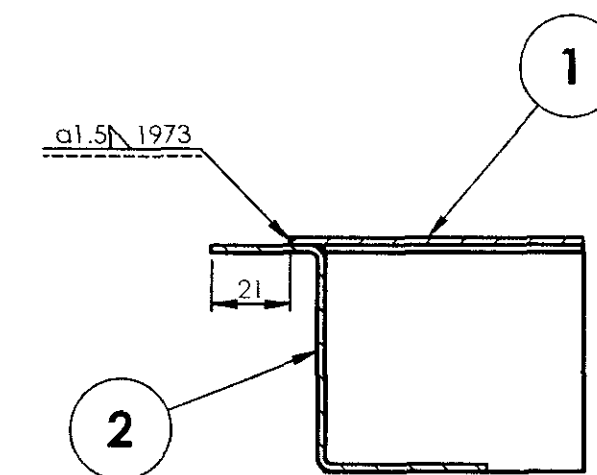
DETAIL B
SCALE 2 : 5



SECTION D-D
SCALE 1 : 2



DETAIL Y
SCALE 1 : 2



SECTION C-C
SCALE 1 : 2

NOTE:

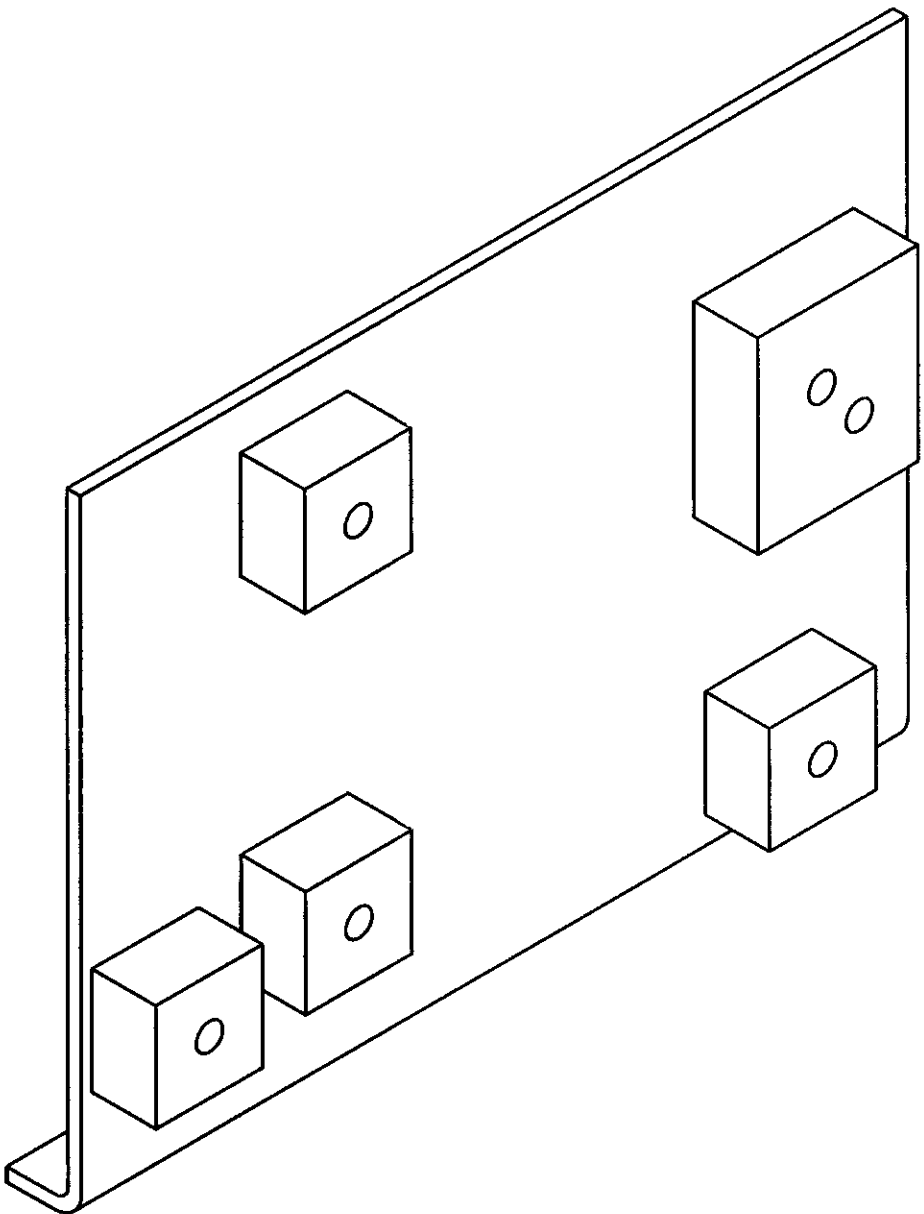
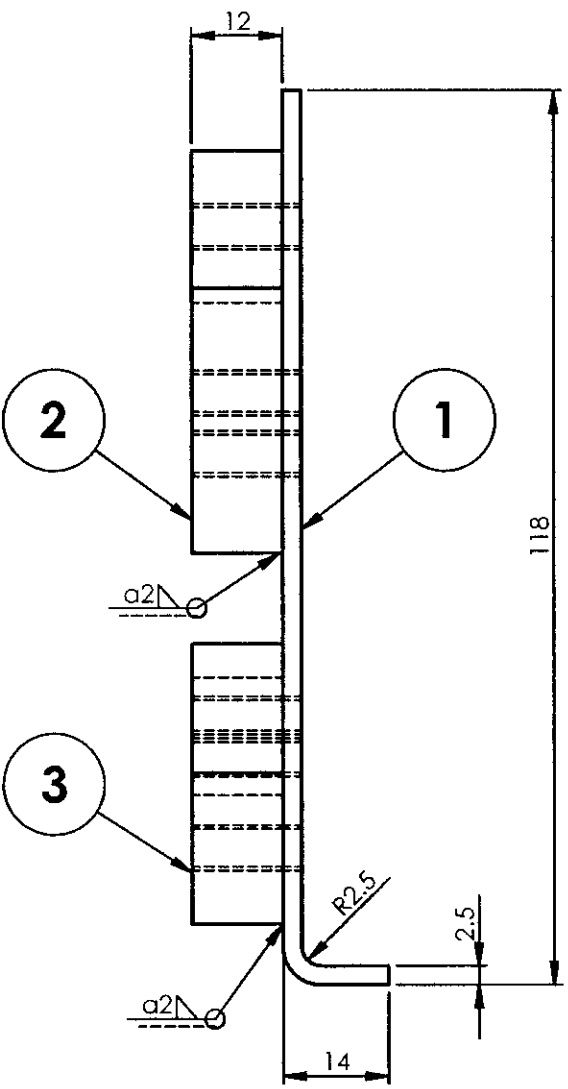
1. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF PDSC/SPEC C-K201 SHALL BE USED FOR WELDING.
3. ALL WELD SPATERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-031.
7. ITEM-3 (NAME PLATE) SHALL BE WELDED OR RIVETTED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
8. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
9. FOR WELD TESTING PREFERENCES REFER DRG. NO. ICF/STD-9-0-998.
10. FOR WELD PROCEDURE SPECIFICATION REFER DRG. NO. ICF/STD-9-0-999.

1	NAME PLATE FOR SUPPLIER IDENTIFICATION	3	AAAS1072		0.063	
1	LAV SIDEWALL FRAME L.H	2	58114021		36.264	
1	LAV SIDE WALL SHEET ASSEMBLY	1	75514024		34.250	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS
GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.: 8.069		WT/ASSY IN Kgs:		
LAV SIDEWALL (RIGHT) NPP END		SCALE 1:5	CHD	B. Senthil Kumar		
		ALT. a	ALTD	R.SANTHOSH KUMAR		
			DRN	T.Ukrapandian		
				LSCN/PP2		
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1	75514028	A1
INTEGRAL COACH FACTORY, CHENNAI - 600038						
12-02-2025		24-07-2024				
DATE OF LATEST ALT.		DATE OF FIRST ISSUE				
		AME/SME				

REF.DRG.NO.75214014


75514030		▽ ROUGH MACHINED ▽▽ FINISH MACHINED ▽▽▽ FINE FINISH MACHINED		⊖1 ROUGH CLEANED ⊖1c BURRS REMOVED ⊖18 CHAMFERED		REVISIONS		ALT. ZONE DESCRIPTION APPROVED & DATE													
						ISOMETRIC VIEW															
NOTE:		1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.		2. ALL WELD SPATTERS SHALL BE GROUND.		3. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.		4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.		5. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.		6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.		7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.		8. FOR WELD PROCEDURE SPECIFICATION REFER DRG.No. ICF/STD-9-0-999.		9. TAPPING TO BE DONE AFTER WELDING ITEMS- 2 & 3 TO ITEM-1		10. ALL TAPPED HOLES SHALL BE PROTECTED WITH SUITABLE DUMMY BOLTS.	
REF.DRG.NO.LG36116 Alt b/-		DATE OF LATEST ALT.		29-11-24		AME/SME		INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		75514030		A2							

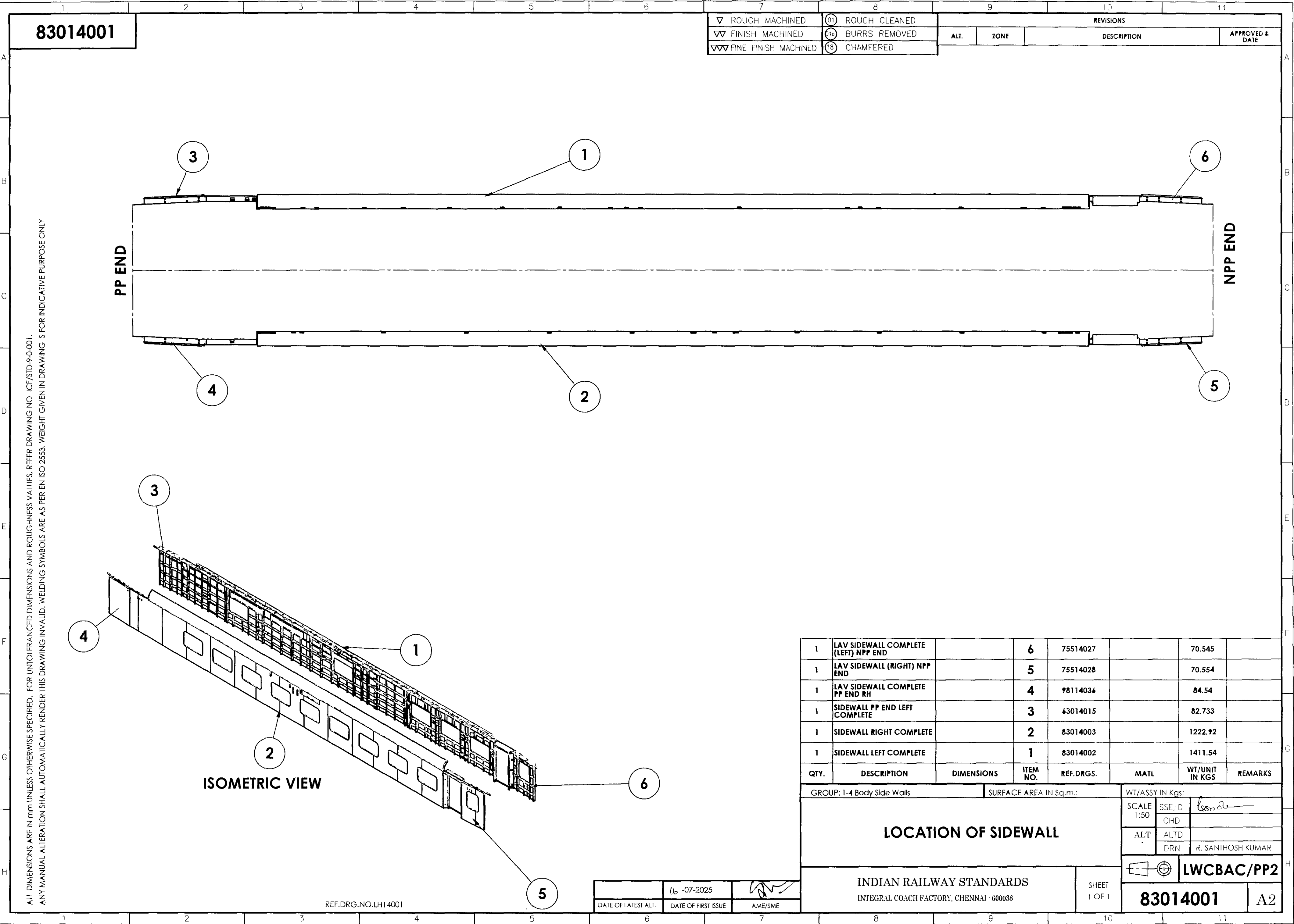
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



NOTE:

- | 4 | SCREWING PIECE | 12x20x20 | 3 | | SS-304 | 0.04 | |
|------|----------------|-------------|----------|-----------|------------------------------|----------------|---------|
| 1 | SCREWING PIECE | 12x30x35 | 2 | | SS-304 | 0.10 | |
| 1 | ANGLE | 2.5x127x155 | 1 | | RDSO SPEC C-K201 X2 Cr Ni 12 | 0.39 | |
| QTY. | DESCRIPTION | DIMENSIONS | ITEM NO. | REF. DRGS | MATERIAL | WT/UNIT IN KGS | REMARKS |

-	29-11-24	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME



83014001

▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	010 BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	018 CHAMFERED

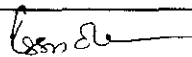
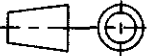
REVISIONS			APPROVED & DATE	
ALT.	ZONE	DESCRIPTION		

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

PP END

NPP END


ISOMETRIC VIEW

1	LAV SIDEWALL COMPLETE (LEFT) NPP END		6	75514027		70.545	
1	LAV SIDEWALL (RIGHT) NPP END		5	75514028		70.554	
1	LAV SIDEWALL COMPLETE PP END RH		4	98114034		84.54	
1	SIDEWALL PP END LEFT COMPLETE		3	43014015		82.733	
1	SIDEWALL RIGHT COMPLETE		2	83014003		1222.92	
1	SIDEWALL LEFT COMPLETE		1	83014002		1411.54	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls			SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:		
LOCATION OF SIDEWALL					SCALE 1:50	SSE/D	
						CHD	
					ALT	ALTD	
						DRN	R. SANTHOSH KUMAR
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						LWCBAC/PP2	
						83014001	
					SHEET 1 OF 1	A2	


REF.DRG.NO.LH14001

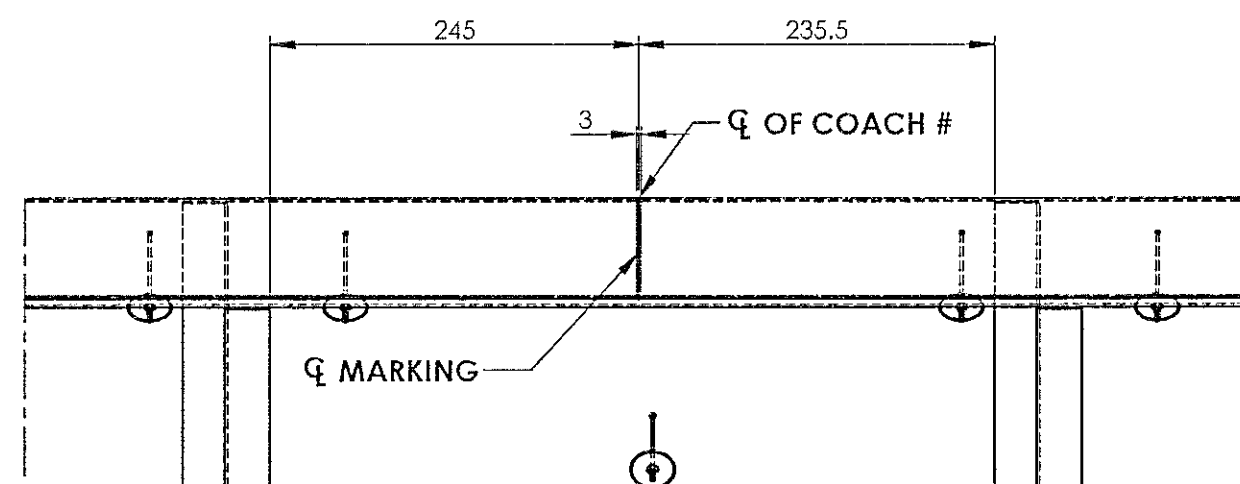
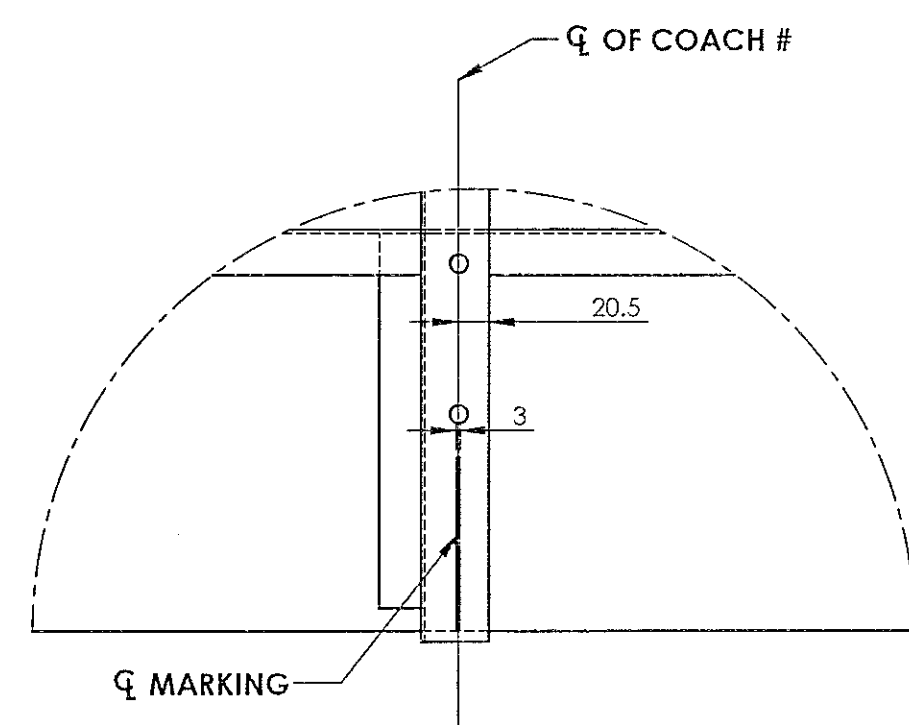
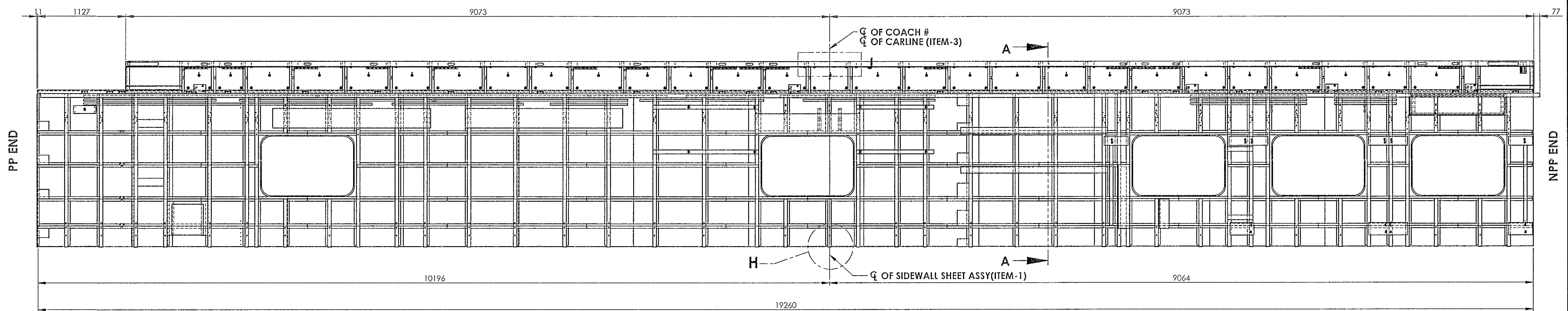
12	13
▽ ROUGH MACHINED	①1 ROUGH CLEANED
▽▽ FINISH MACHINED	①1b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①18 CHAMFERED



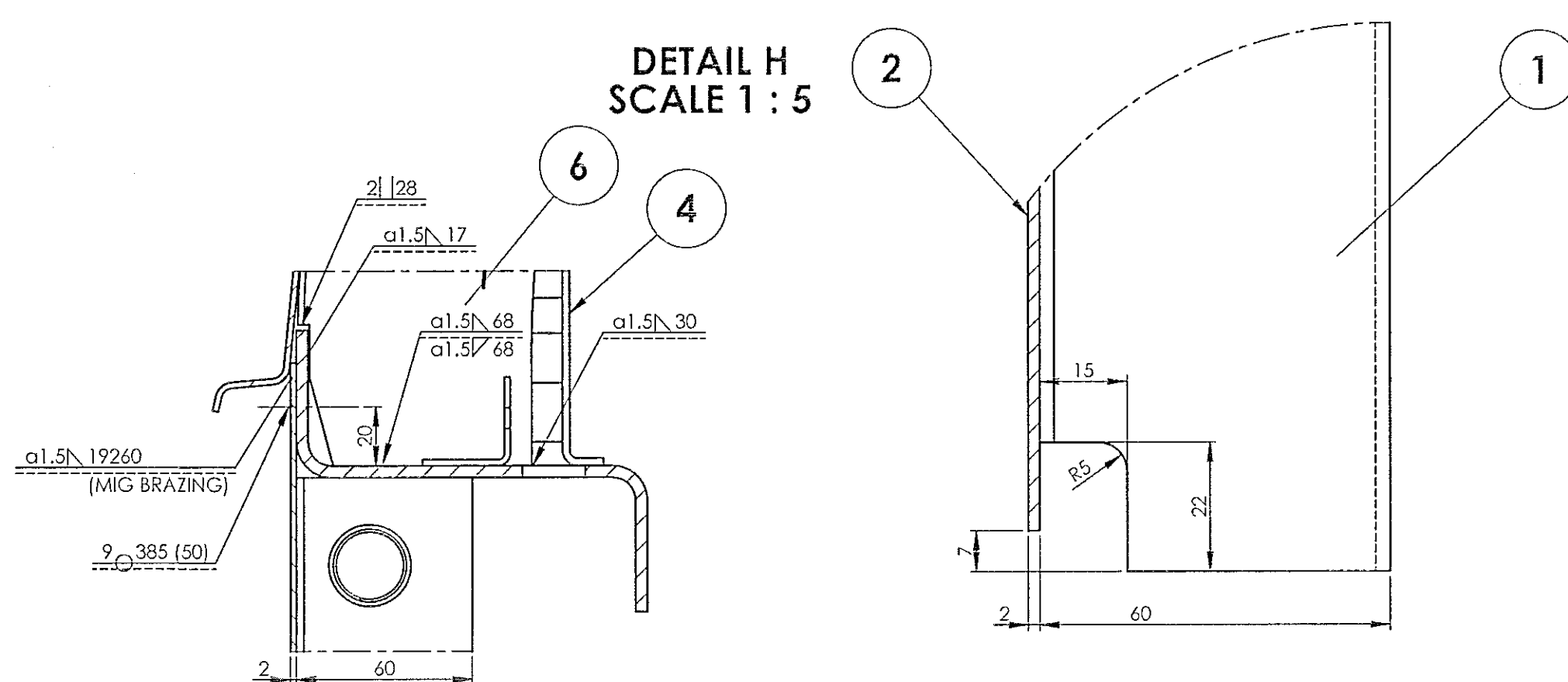
GROUP: 1-4 Body Side Walls	SURFACE AREA IN Sq.m.: 157.78	WT/ASSY IN Kgs:	
SIDEWALL LEFT COMPLETE		SCALE	<i>Ravi</i>
		1:27	SSE/D
			CHD
		ALT.	R. SANTHOSH KUMAR
		DRN	R.SANTHOSH KUMAR
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038	SHEET 1 OF 2	 IWCBC/PP2	
		83014002	A1

ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. C/J-STD-9-0001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER S8.3-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

▽ ROUGH MACHINED	(01) ROUGH CLEANED	REVISIONS			
▽▽ FINISH MACHINED	(01b) BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED	(18) CHAMFERED	a		VIEW'S UPDATED AS PER CHANGE IN ITEM - 4.	



DETAIL J
SCALE 1 : 5



DETAIL H
SCALE 1 : 5

DETAIL L
SCALE 1 : 1

DETAIL K
SCALE 1 : 2

CENTERLINE MARKING NOTE:

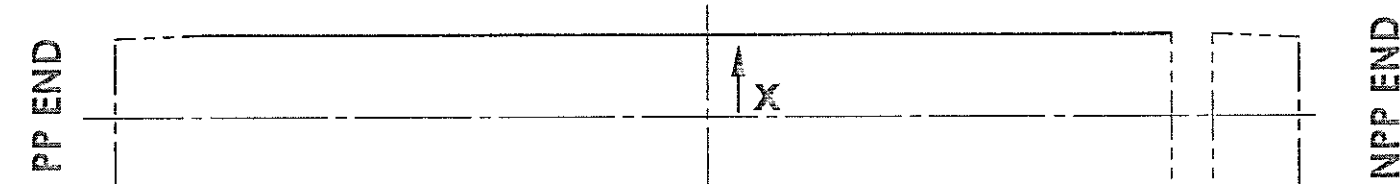
CENTER LINE OF COACH TO BE MARKED ON BOTH SIDES OF SIDEWALL

LENGTH OF MARKING - 80 mm
COLOUR OF MARKING-RED
WIDTH OF MARKING -2 TO 3 mm

CENTERLINE TO BE MARKED AFTER WELDING
THE RESPECTIVE WELD PARTS.

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-99B.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.
10. ITEMS MARKED THUS @ TO BE SUPPLIED LOOSE AND WELDED AT BODY SHELL STAGE.
11. SCHEDULE OF REQUIREMENTS FOR MANUFACTURE OF SIDEWALL ASSEMBLY SHALL COMPLY TO ICF/MD/SPEC-200 LATEST REVISION.
12. ITEM-4 (NAME PLATE) SHALL BE WELDED OR RIVETTED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING PROCURED FROM TRADE.



REF. DIAGRAM

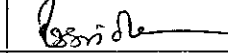
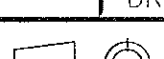
REF.DRG.NO.LH14101 'f

5-11-2025	16-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
2 OF 2

83014002	A1
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1	CARLINE COMPLETE LEFT		6	83014012			210.494	
1	DOOR CUT OUT ASSEMBLY		5	SSA14032			60.148	
1	LOCATION OF BACKPIECES ON SIDEWALL (PANTRY SIDE)		4	83014004			103.16	
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		3	AAA51072			0.063	
1	SIDEWALL SHEET ASSY		2	83014006			550.18	
1	SIDEWALL FRAME WORK LEFT COMPLETE		1	83014008			487.843	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS	
GROUP: 1-4 Body Side Walls			SURFACE AREA IN Sq.m.: 157.78		WT/ASSY IN Kgs:			
SIDEWALL LEFT COMPLETE					SCALE	SSE/D		
					1:30	CHD		
					ALT.	ALTD	R. SANTHOSH KUMAR	
					a	DRN	R.SANTHOSH KUMAR	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						LWCBC/PP2		
						83014002		
					SHEET			A1
					2 OF 2			

