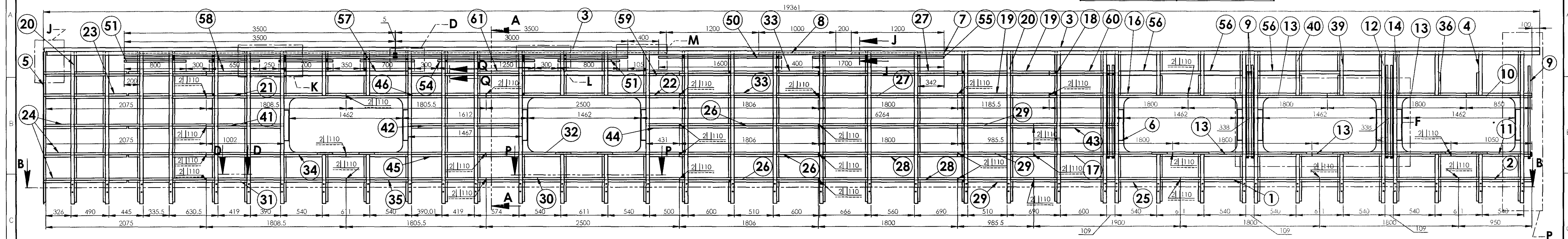
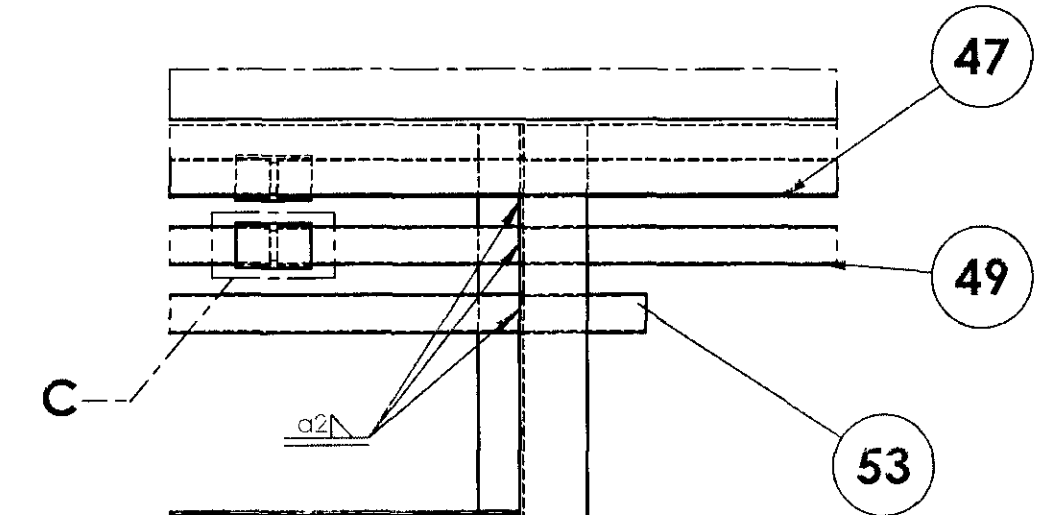
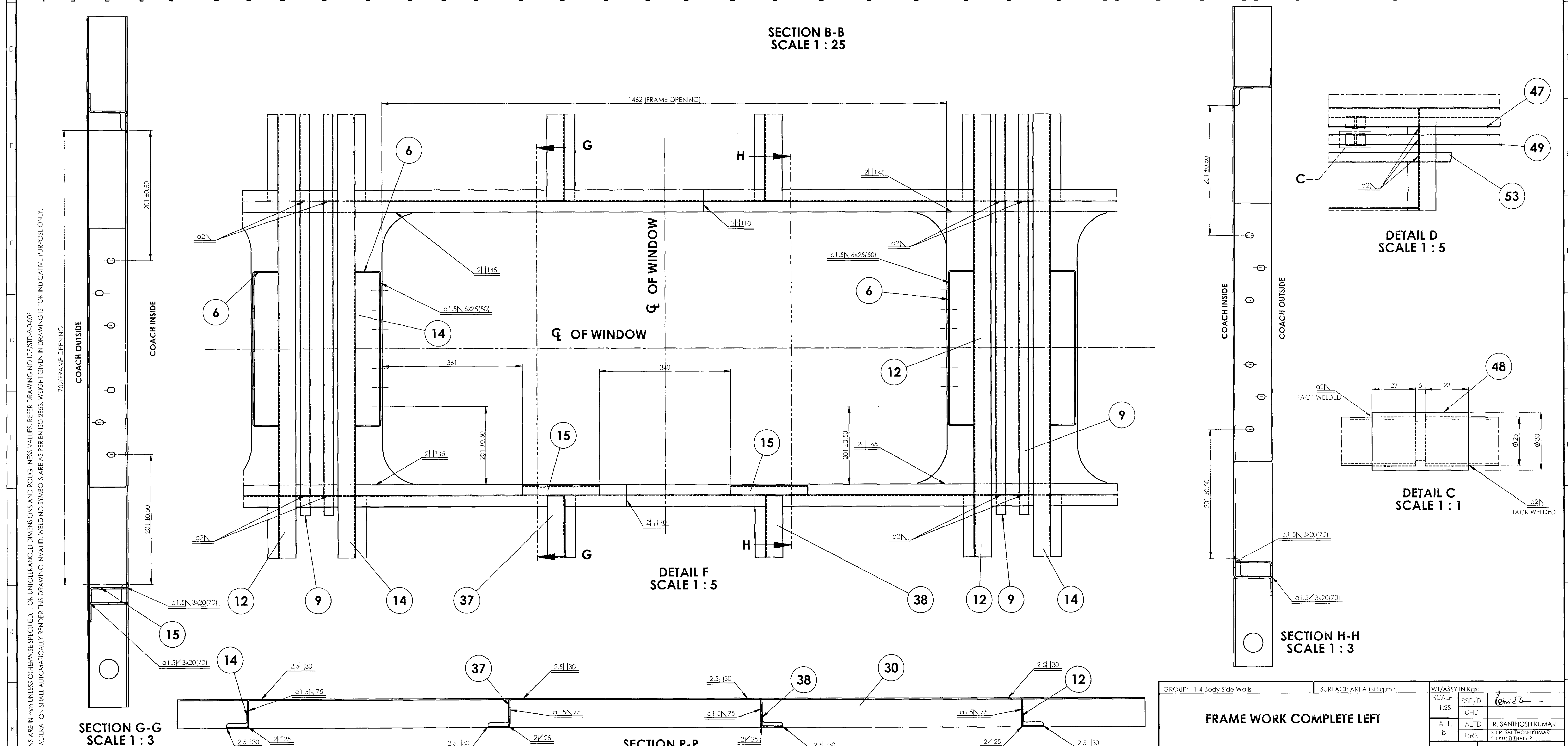
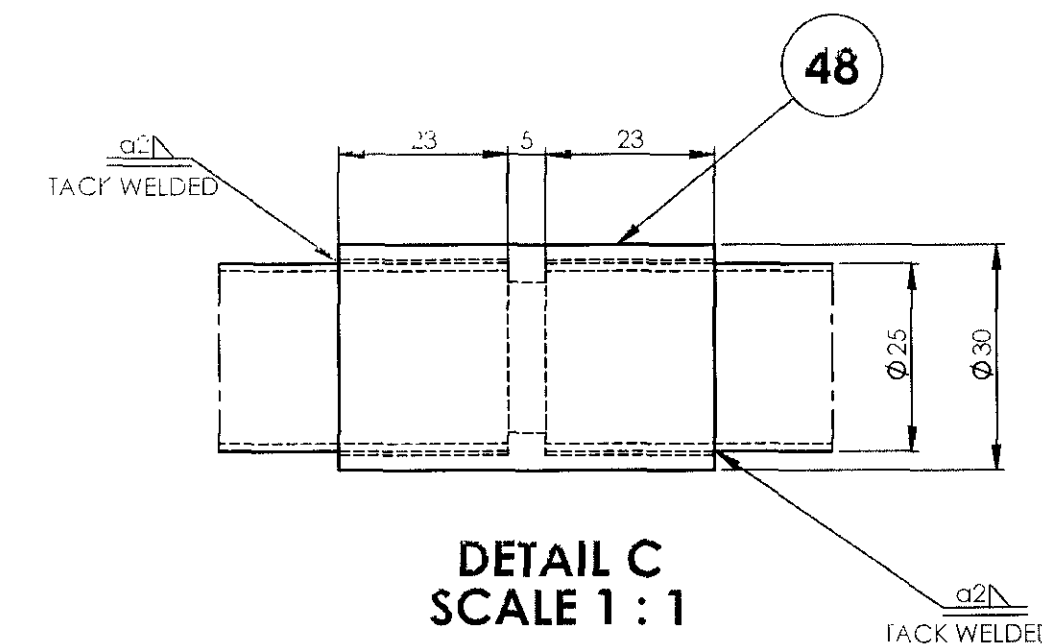
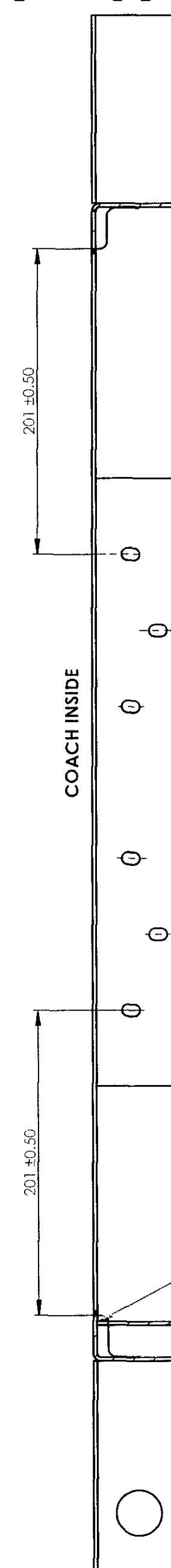


98114028

▽ RUGH MACHINED	○ RUGH CLEANED
▽▽ FINISH MACHINED	○○ BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	○○○ CHAMFERED



VIEW FROM-X

SECTION B-B  
SCALE 1 : 25DETAIL D  
SCALE 1 : 5DETAIL C  
SCALE 1 : 1SECTION H-H  
SCALE 1 : 3SECTION G-G  
SCALE 1 : 3SECTION P-P  
SCALE 1 : 4

GROUP: 1-4 Body Side Walls	SURFACE AREA IN Sq.m.:	WT/ASSY IN Kgs:
SCALE 1:25	SSE/D	CHD
ALT. b	ALTD	R. SANTHOSH KUMAR
DRN	DRN	3D-R SANTHOSH KUMAR
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		LWCB/PP
SHEET 1 OF 2		98114028 A1


12-2024	19-08-2024	AME/SME
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	

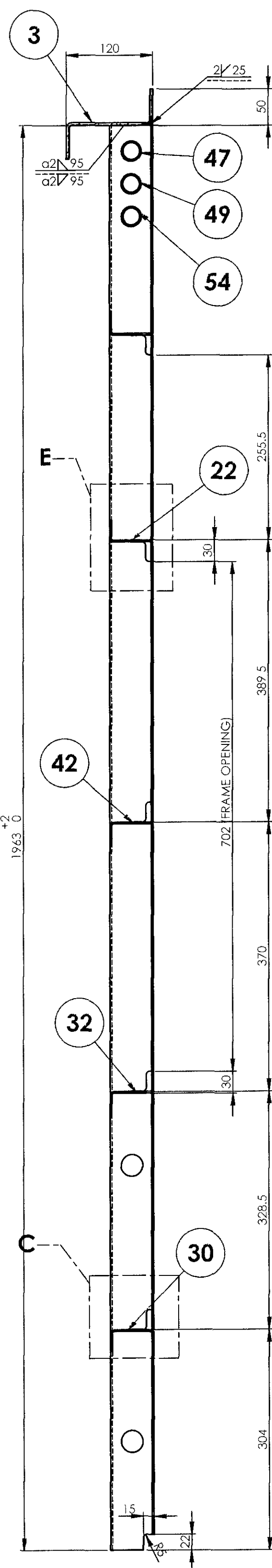
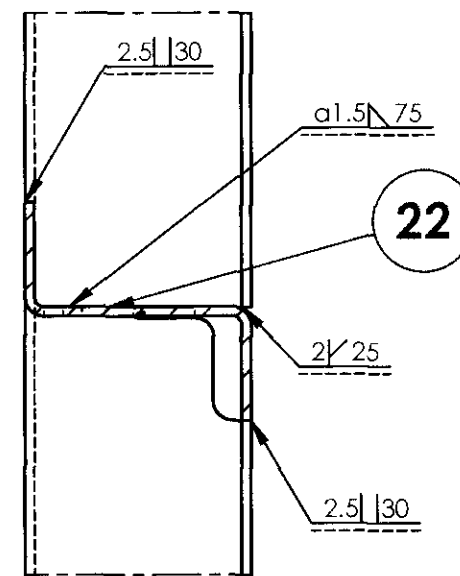
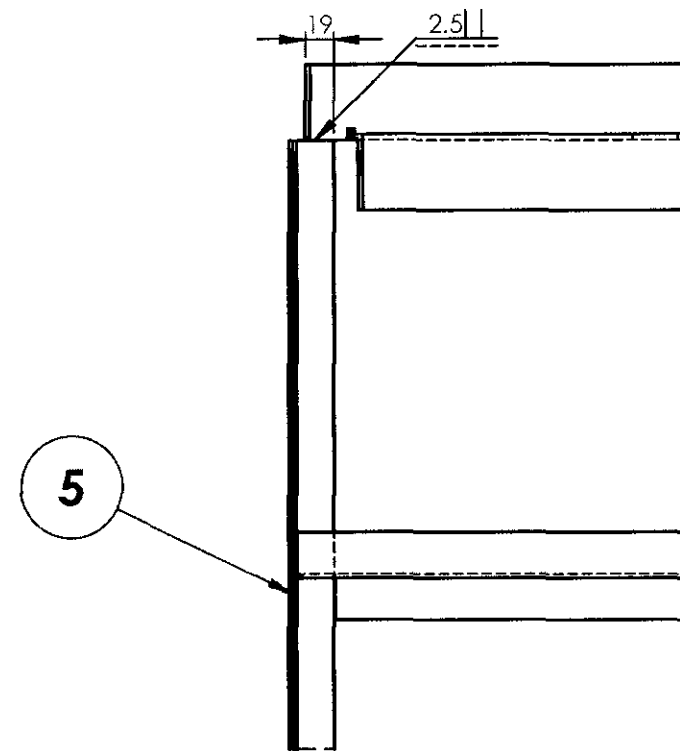
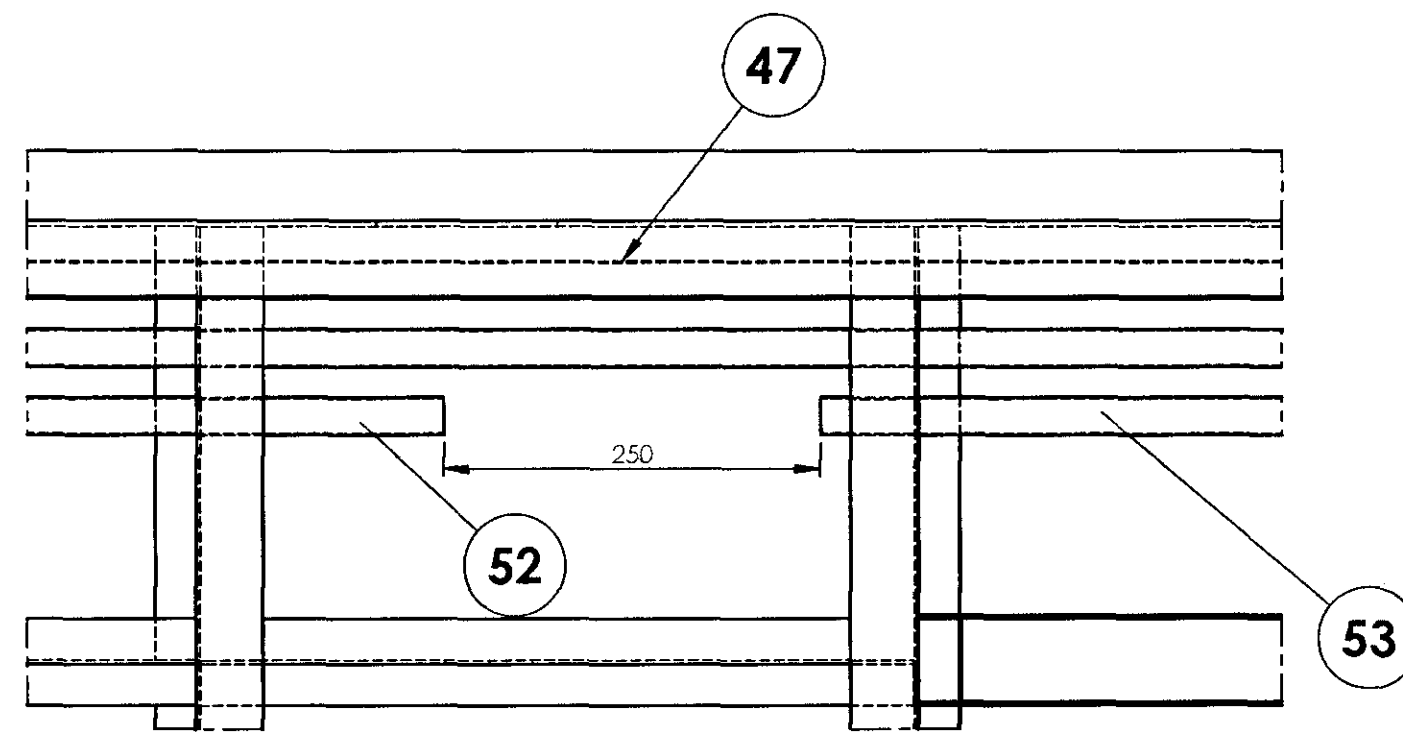
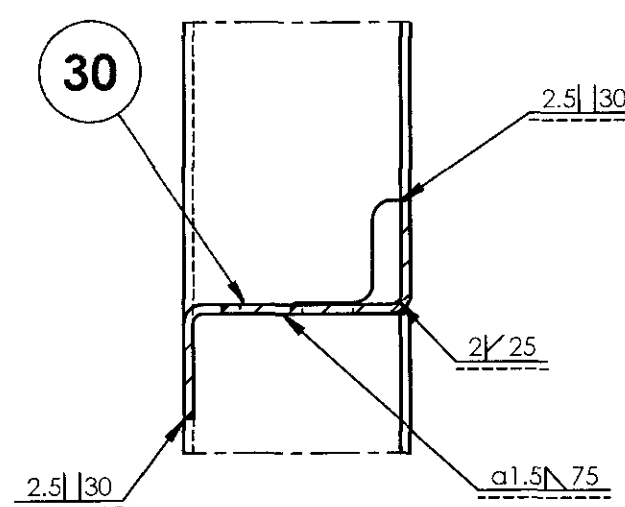
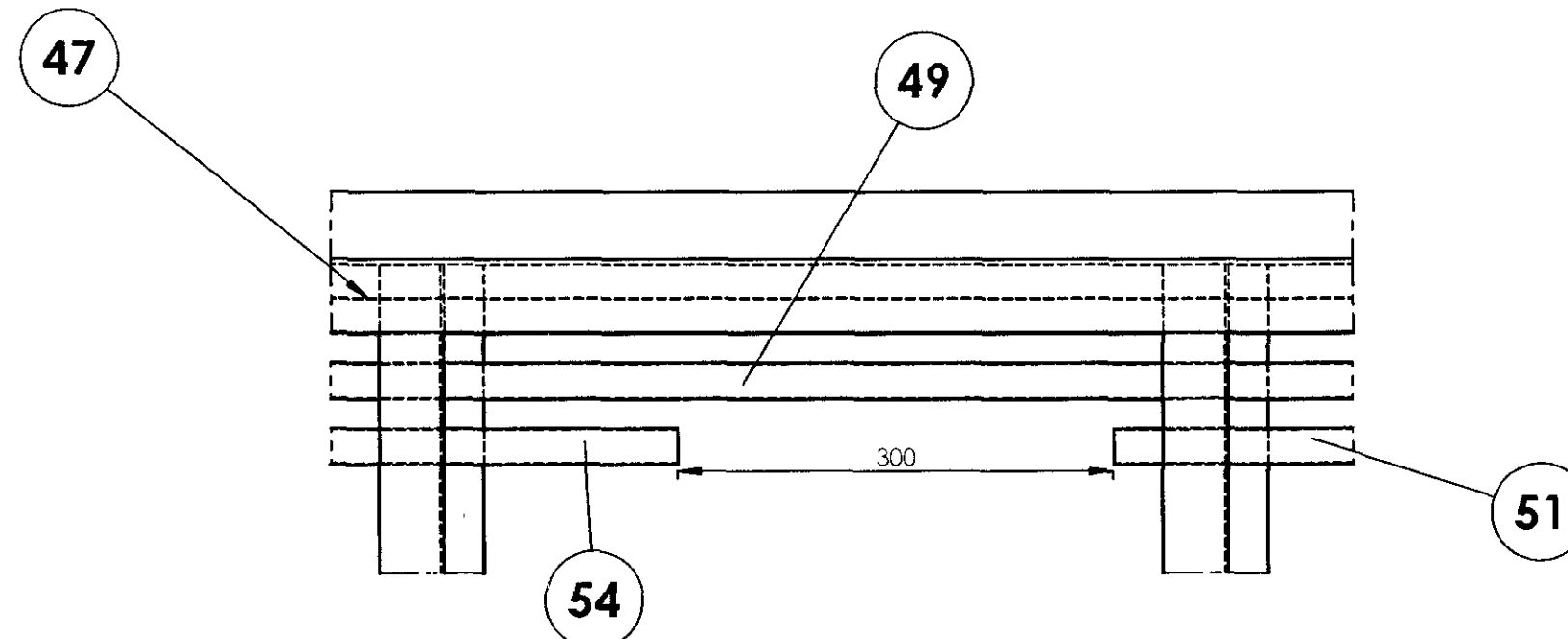
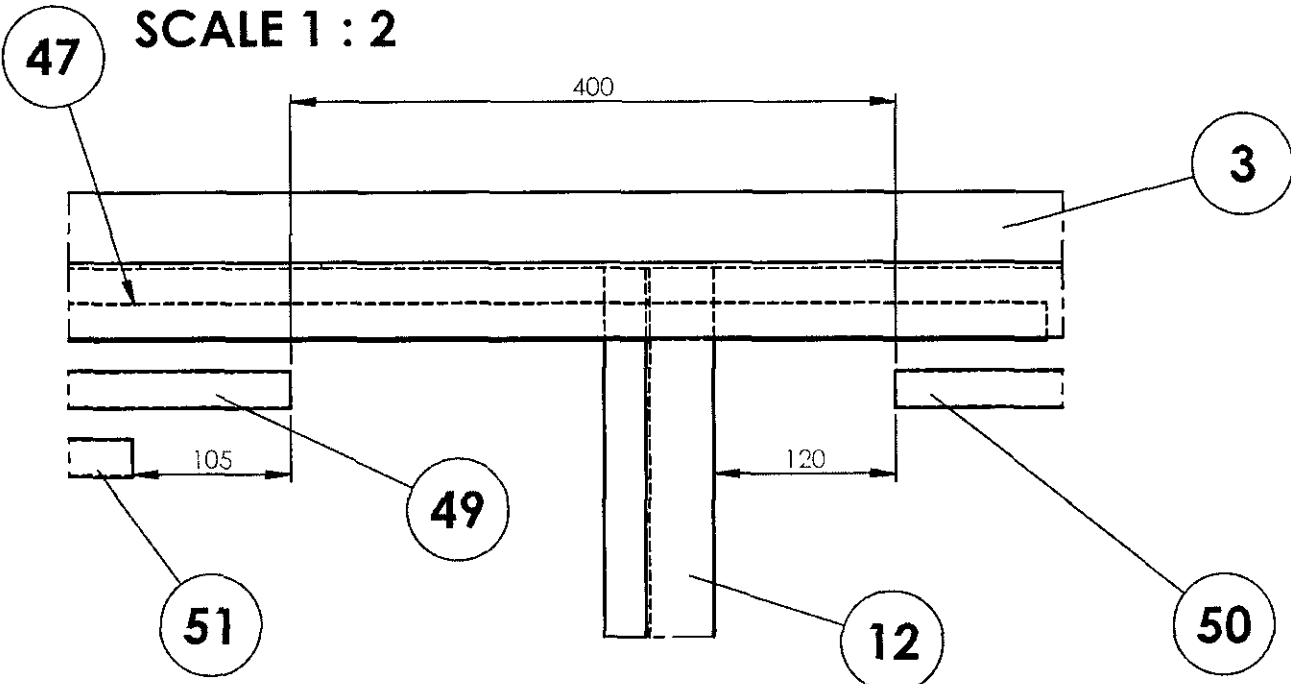
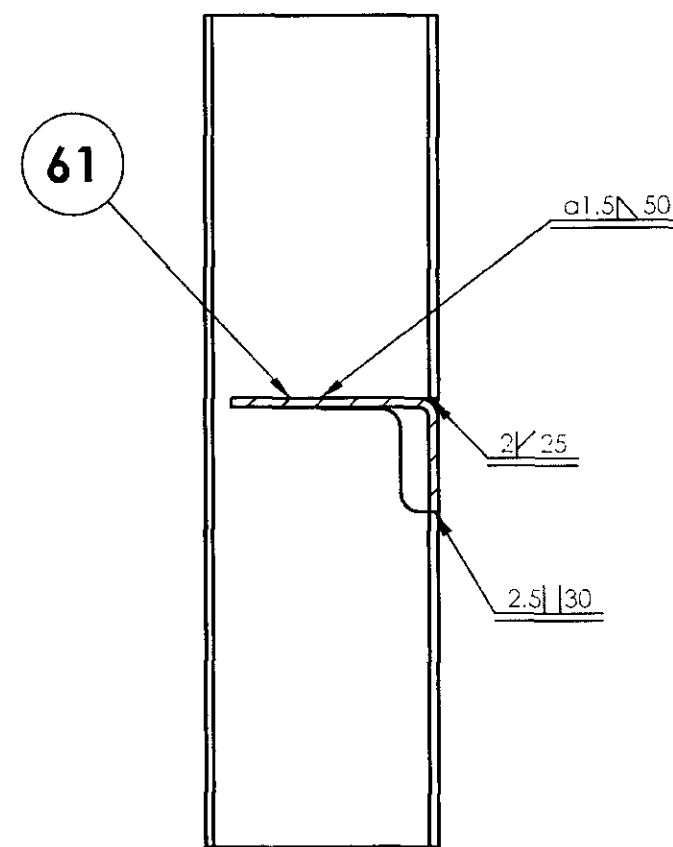
REF.DRG.NO.

98114028

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

① ROUGH CLEANED  
② BURRS REMOVED  
③ CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		QTY FOR ITEMS -19,23,27,33 ALTD FROM 1,1,1,1 TO 2,2,2,2 RESPLY: ITEMS-54 TO 41 ADDED ALONG WITH SECTION Q-Q. ITEMS-18,20,39,40 UPDATED ALONG WITH SECTION-AA.		-sd-
b		ITEMS-3,21,23,24,31,34,39,40,41 & 58 UPDATED.		

SECTION A-A  
SCALE 1 : 5DETAIL E  
SCALE 1 : 2DETAIL J  
SCALE 1 : 5DETAIL K  
SCALE 1 : 5DETAIL C  
SCALE 1 : 2DETAIL L  
SCALE 1 : 5DETAIL M  
SCALE 1 : 5SECTION Q-Q  
SCALE 1 : 2

## NOTE:

- ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
- ALL WELD SPATTERS SHALL BE GROUND.
- ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
- ALL SHARP CORNERS SHALL BE ROUNDED OFF.
- STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
- ITEMS MARKED @ THIS TO BE WELDED ONLY AFTER SPOT WELDING OF FRAME WITH SIDEWALL SHEET.
- ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
- FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
- FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	HORIZONTAL MEMBER		61	AAK14105		3.14	
1	HORIZONTAL MEMBER		60	AAK14104		1.88	
1	HORIZONTAL MEMBER		59	AAK14103		0.93	
1	HORIZONTAL MEMBER		58	AAK14102		2.11	
2	UPPER HORIZONTAL MEMBER		57	AAK14396		2.41	
2	UPPER HORIZONTAL MEMBER		56	AAK14619		2.27	
1	CONDUIT	OD 25 x 11 x 1700	55		SS-304	1.01	
1	CONDUIT	OD 25 x 11 x 1250	54		SS-304	0.74	
2	CONDUIT	OD 25 x 11 x 700	53		SS-304	0.42	
1	CONDUIT	OD 25 x 11 x 450	52		SS-304	0.39	
2	CONDUIT	OD 25 x 11 x 400	51		SS-304	0.48	
1	CONDUIT	OD 25 x 11 x 1400	50		SS-304	0.95	
1	CONDUIT	OD 25 x 11 x 3000	49		SS-304	1.79	
2	COUPLER FOR CONDUITS		48	AAC16320		0.08	
3	CONDUIT	OD 25 x 11 x 3500	47		SS-304	2.08	
1	HORIZONTAL MEMBER		46	AAK14097		3.89	
1	HORIZONTAL MEMBER		45	AAK14096		3.9	
1	HORIZONTAL MEMBER		44	AAK14088		0.93	
1	HORIZONTAL MEMBER		43	AAK14087		2.33	
1	HORIZONTAL MEMBER		42	AAK14086		3.14	
1	HORIZONTAL MEMBER		41	AAK14001		2.11	
4	PART PILLAR TOP		40	AAK14085		1.33	
4	PART PILLAR TOP		39	AAK14084		1.33	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

5	PART PILLAR RH		38	AAJ14599		1.52	
5	PART PILLAR LH		37	AAJ14600		1.52	
1	PART PILLAR TOP( L.H.)		36	AAK14083		0.97	
1	HORIZONTAL MEMBER		35	AAK14081		3.9	
1	HORIZONTAL MEMBER		34	AAK14002		3.9	
2	HORIZONTAL MEMBER		33	AAK14005		3.94	
1	HORIZONTAL MEMBER		32	AAK14004		5.47	
1	HORIZONTAL MEMBER		31	AAK14080		3.9	
1	HORIZONTAL MEMBER		30	AAK14009		5.5	
3	HORIZONTAL MEMBER		29	AAK14008		2.14	
3	HORIZONTAL MEMBER		28	AAK14007		3.92	
2	HORIZONTAL MEMBER		27	AAK14006		3.92	
3	HORIZONTAL MEMBER		26	AAJ14985		3.94	
1	HORIZONTAL MEMBER		25	AAK14079		4.09	
3	HORIZONTAL MEMBER		24	AAK14503		4.52	
2	HORIZONTAL MEMBER		23	AAK14502		4.514	
1	HORIZONTAL MEMBER		22	AAK14003		5.47	
1	HORIZONTAL MEMBER		21	AAJ14984		3.9	
8	PILLAR (L.H.)		20	AAJ14983		4.78	
2	HORIZONTAL MEMBER		19	AAJ14984		2.58	
10	PILLAR (R.H.)		18	AAJ14982		4.78	
1	HORIZONTAL MEMBER		17	AAJ14981		3.87	
1	HORIZONTAL MEMBER		16	AAJ14980		3.87	
10	ANGLE FOR WINDOW SUPPORT		15	AAJ14401		0.31	
5	PILLAR (L.H.)		14	AAJ14979		5.5	
4	HORIZONTAL MEMBER		13	AAJ14596		3.87	
5	PILLAR (R.H.)		12	AAJ14978		5.50	
1	HORIZONTAL MEMBER		11	AAJ14594		2.3	
1	HORIZONTAL MEMBER		10	AAJ14597		1.81	
7	CONDUIT	OD 25 x 11 x 1200	9		SS-304	0.71	
1	CONDUIT	OD 25 x 11 x 1000	8		SS-304	0.40	
1	CONDUIT	OD 25 x 11 x 1200	7		SS-304	0.71	
10	CHANNEL FOR WINDOW FIXING		6	AAK14984		0.70	
1	ANGLE-LH		5	AAJ14241		3.387	
1	PART PILLAR TOP (R.H.)		4	AAK14082		0.944	
1	ROOF FLANGE(CRF)		3	AAJ14204		125.14	
1	LOWER HORIZONTAL MEMBER		2	AAK14991		2.02	
2	LOWER HORIZONTAL MEMBER		1	AAK14990		3.89	
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:

FRAME WORK COMPLETE LEFT

INDIAN RAILWAY STANDARDS  
INTEGRAL COACH FACTORY, CHENNAI - 600038SHEET  
2 OF 2

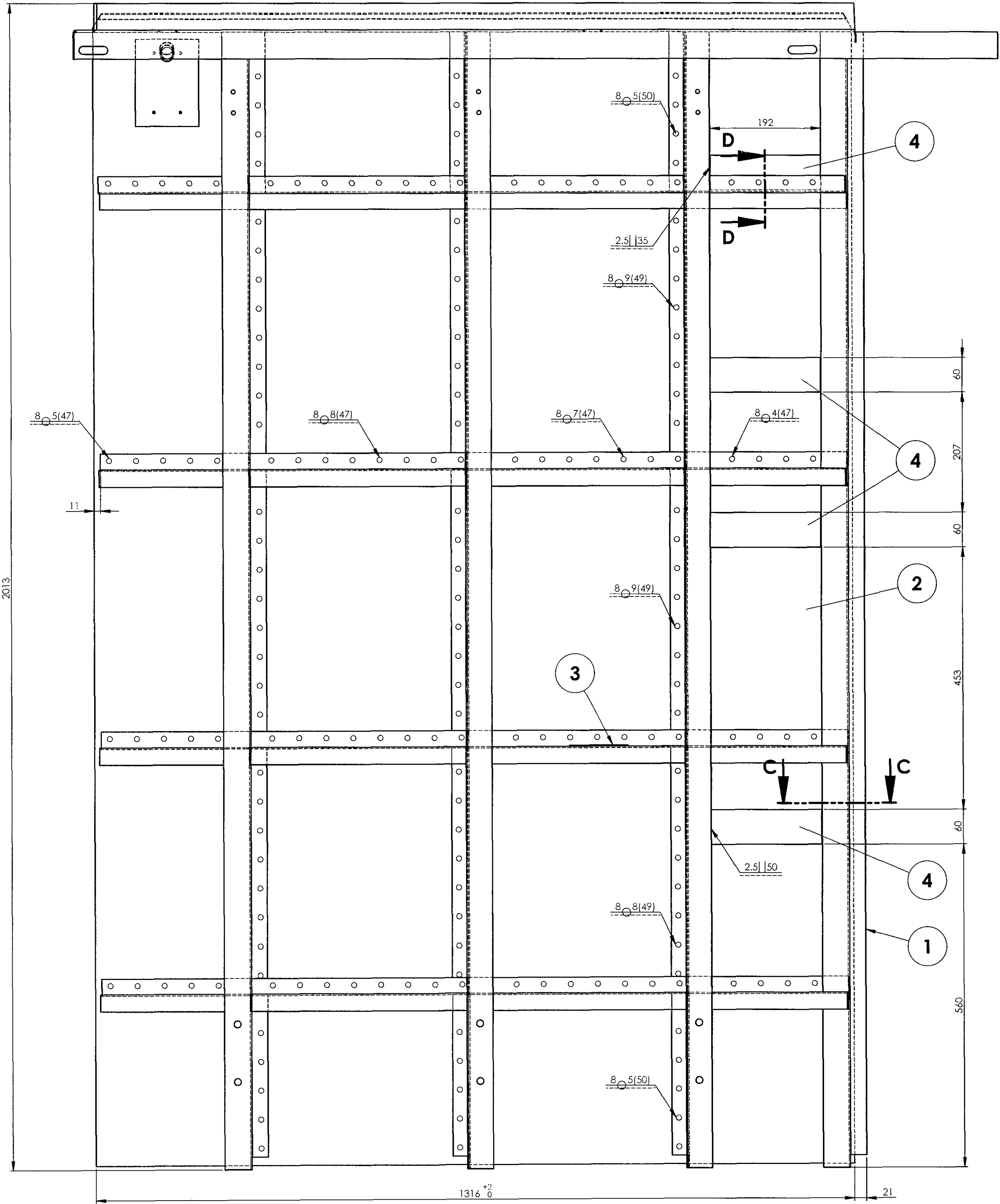
98114028

A1

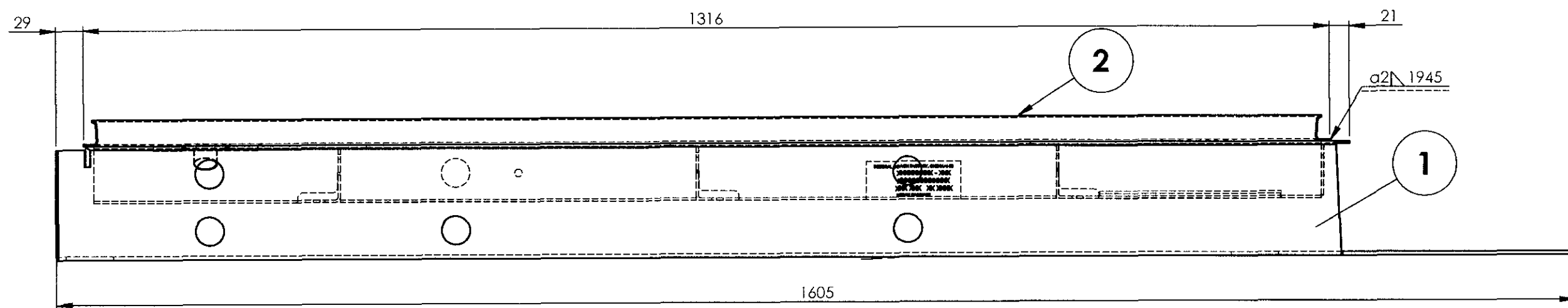


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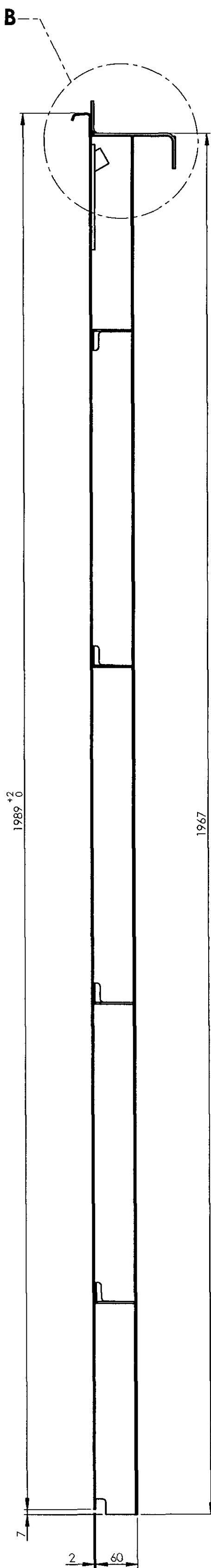
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NO.	DESCRIPTION				
1	ROUGH MACHINED	01		ROUGH CLEANED	
2	FINISH MACHINED	02		BURRS REMOVED	
3	FINE FINISH MACHINED	03		CHAMFERED	
ITEM-4 & SEC-DD ADDED. VIEWS UPDTD.					



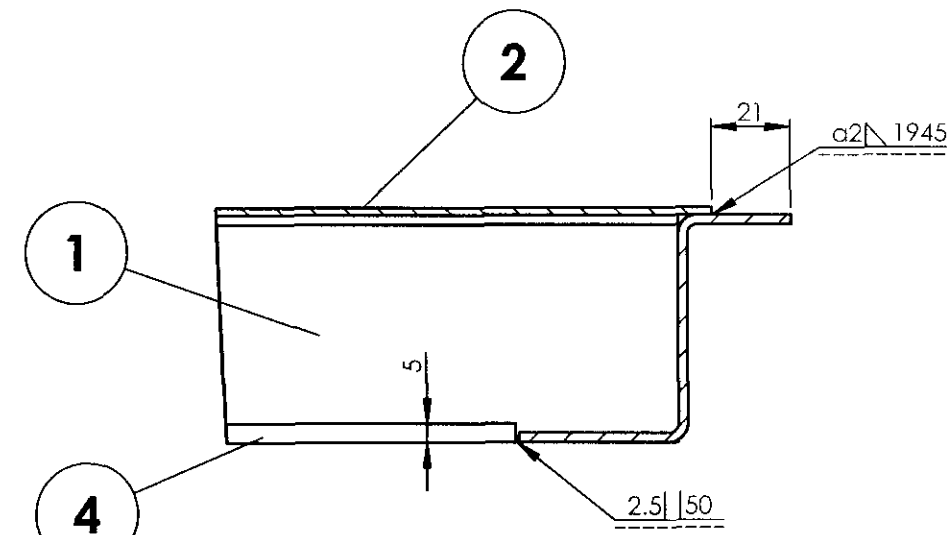
VIEW- A



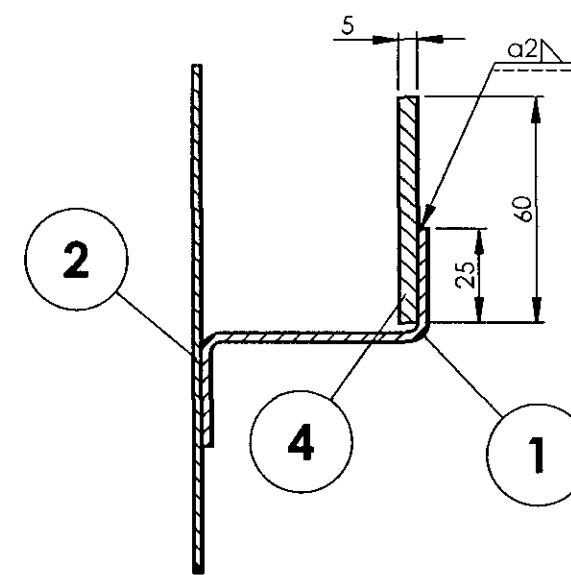
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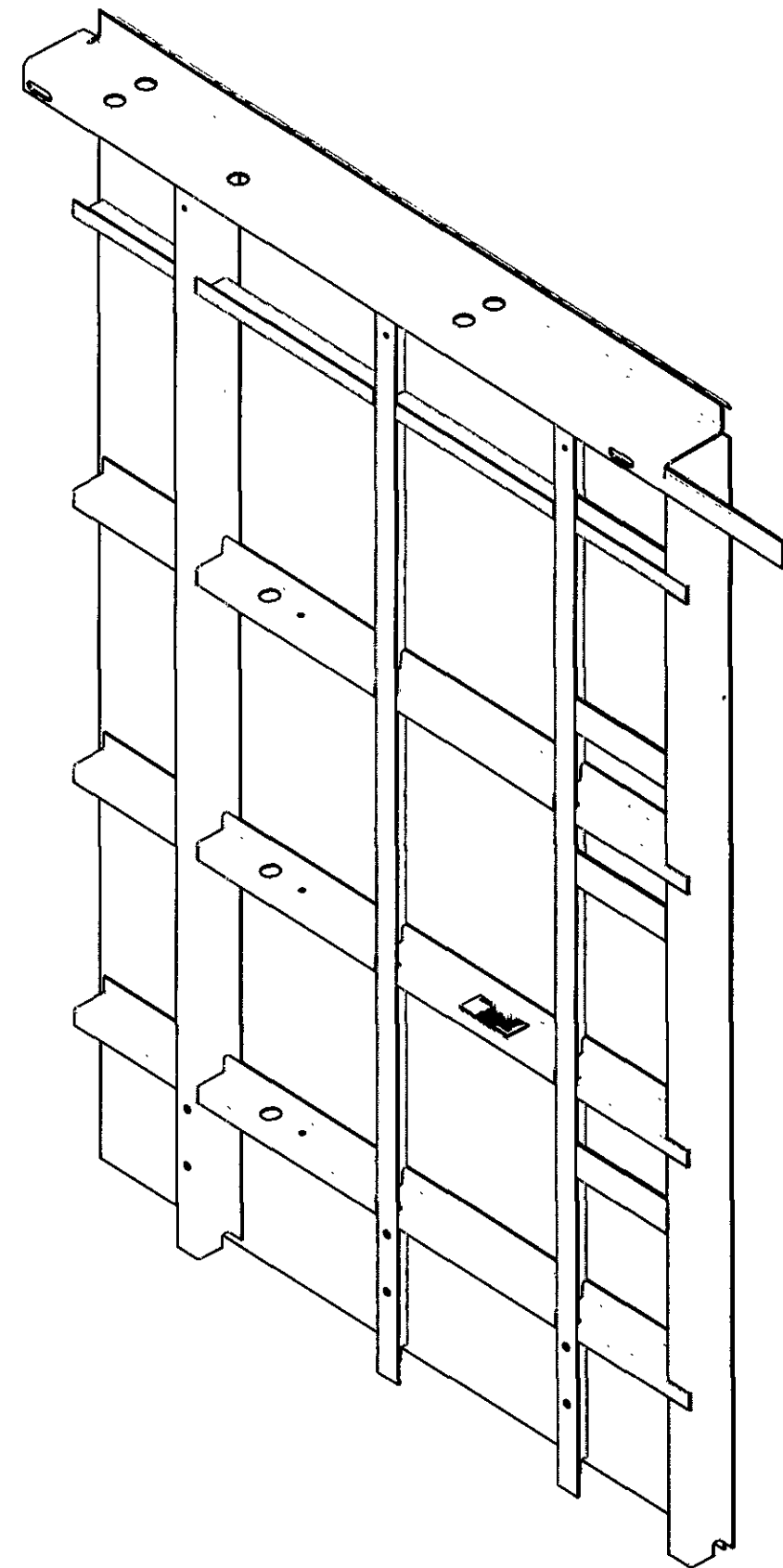
DETAIL B  
SCALE 1 : 2



SECTION C-C  
SCALE 1 : 2



SECTION D-D  
SCALE 1 : 2



ISOMETRIC VIEW

NOTE:

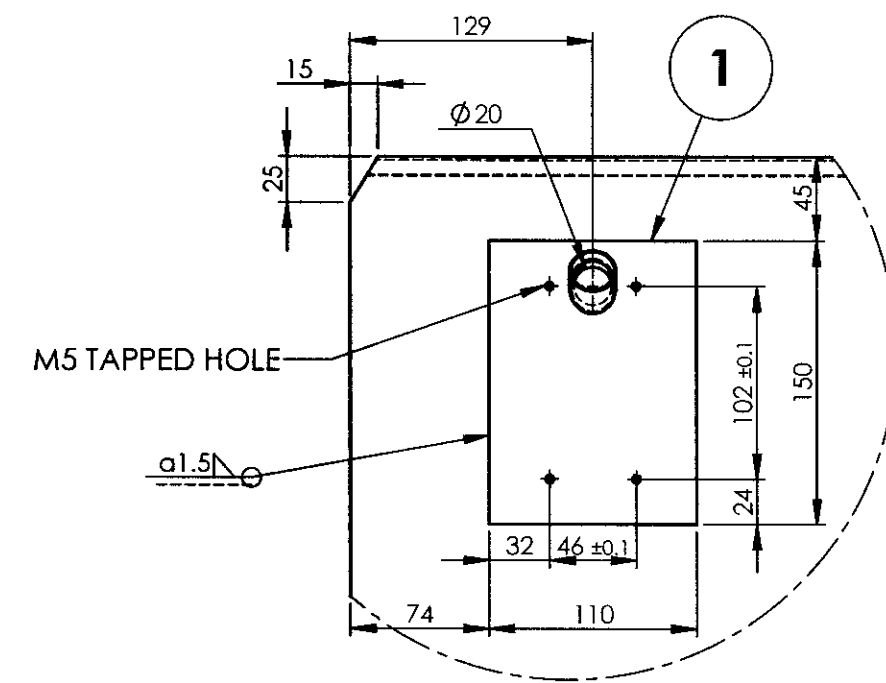
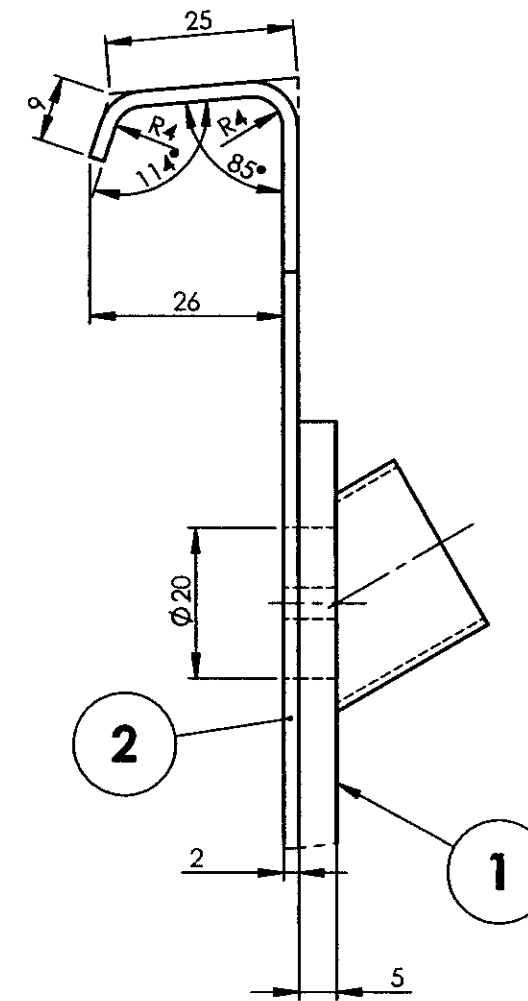
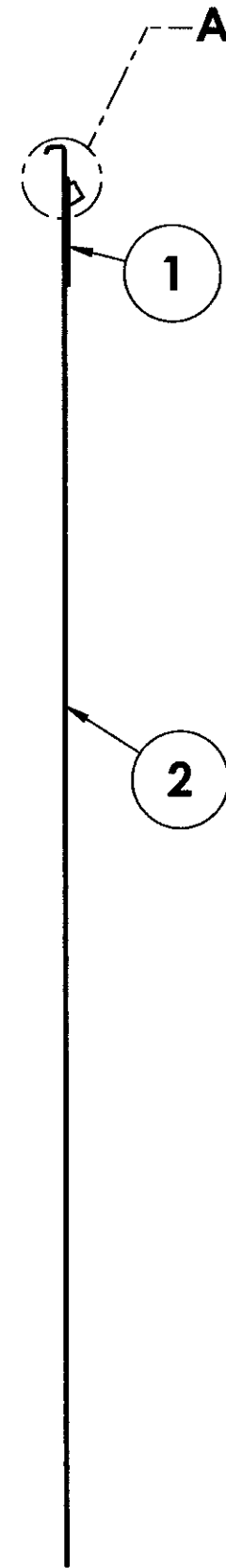
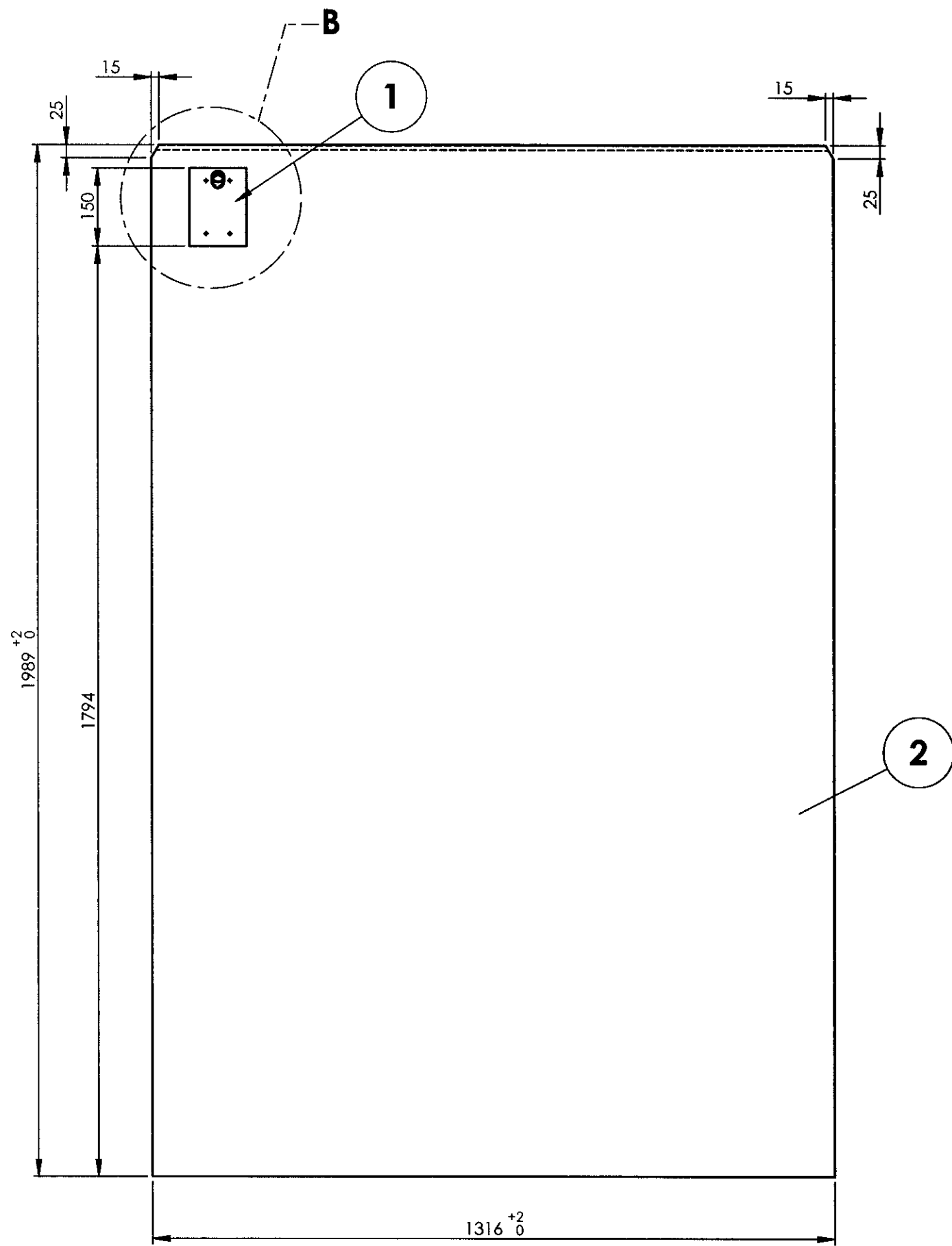
- ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
- STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
- ALL WELD SPATTERS SHALL BE GROUND.
- ALL SHARP CORNERS SHALL BE ROUNDED OFF.
- ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
- FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
- FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
- ITEM-3 (NAME PLATE) SHALL BE WELDED OR RIVETED AT SUITABLE LOCATION AS SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
- SCHEDULE OF REQUIREMENTS FOR MANUFACTURE OF SIDE WALL ASSEMBLY SHALL COMPLY TO ICF/MD/SPEC-200 LATEST REVISION.
- FINISHED ASSEMBLY SHALL BE THOROUGHLY CLEANED AND APPLIED WITH ONE ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER (AIRLESS SPRAY) TO ICF/MD/SPEC-231.

QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
4	FLAR FOR PARTITION FIXING	5x40x192	4		RDSO SPEC C- K201 X2 Cr Ni 12	0.46	
1	NAME PLATE FOR SUPPLIER IDENTIFICATION		3	AAA51072		0.043	
1	LAV SIDE WALL SHEET (RH)		2	98114037		43.086	
1	SIDEWALL FRAME WORK RIGHT COMPLETE		1	88814011		39.550	
GROUP: 1-4 Body Side Walls							
SURFACE AREA IN Sq.m:				WT/ASSY IN Kgs:			
LAV SIDEWALL COMPLETE PP END RH				SCALE 1:5	GSE/D	CHD	
				ALT. a	ALTD	URN	T.Ukkirapandian
							T.Ukkirapandian
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038				98114036			
				A1			

98114037

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



DETAIL B  
SCALE 1 : 4

**NOTE:-**

- ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
- STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
- ALL WELDED JOINTS SPATTERS SHALL BE GROUND.
- ALL SHARP CORNERS SHALL BE ROUNDED OFF.
- ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
- FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
- FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
- SIDE WALL SHEET JOINT WITH 1230mm SIZE (USING 1250mm WIDTH RM SHEET) SHALL ALSO BE PERMITTED.

REF.DRG.NO.-

1	LAV. SIDE WALL SHEET (LH)	2x1316x2019.5	2		RDSO SPEC C-K201 X2 Cr Ni 12	42.432	
1	BACKPIECE FOR PACIL		1	AAA14904		0.455	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.: 5.356		WT/ASSY IN Kgs:	
LAV SIDE WALL SHEET (RH)				SCALE 1:10	SSE/D	CHD	
				ALT	ALTD	DRN	
						T.Ukkirapandian	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1		LWCB/PP	
						98114037	
						A2	

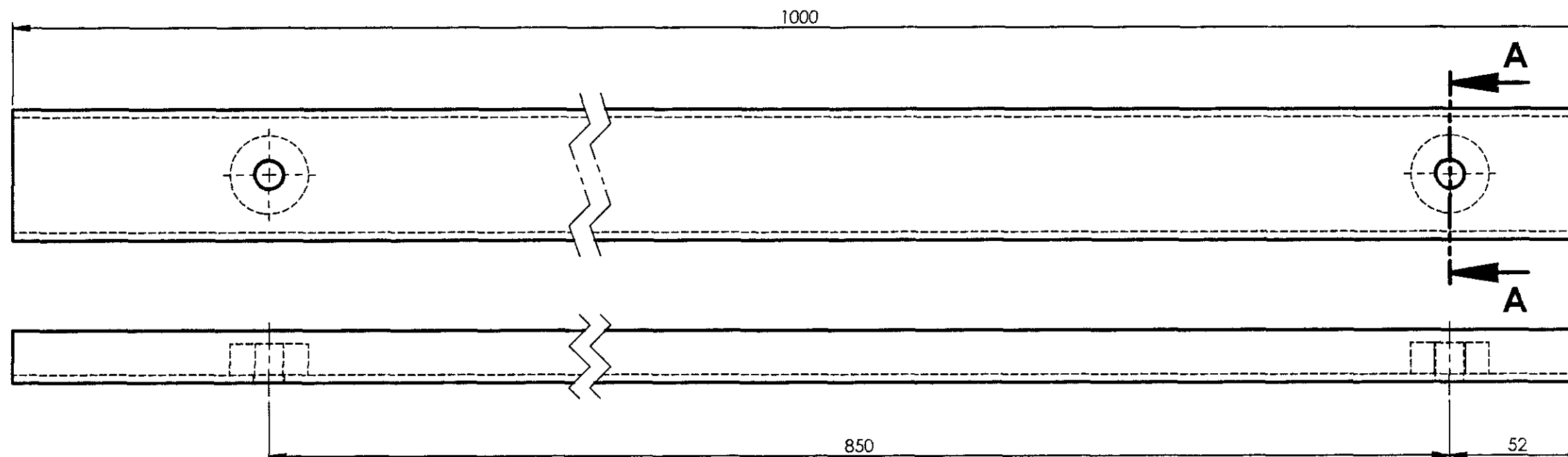
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DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

98114042

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

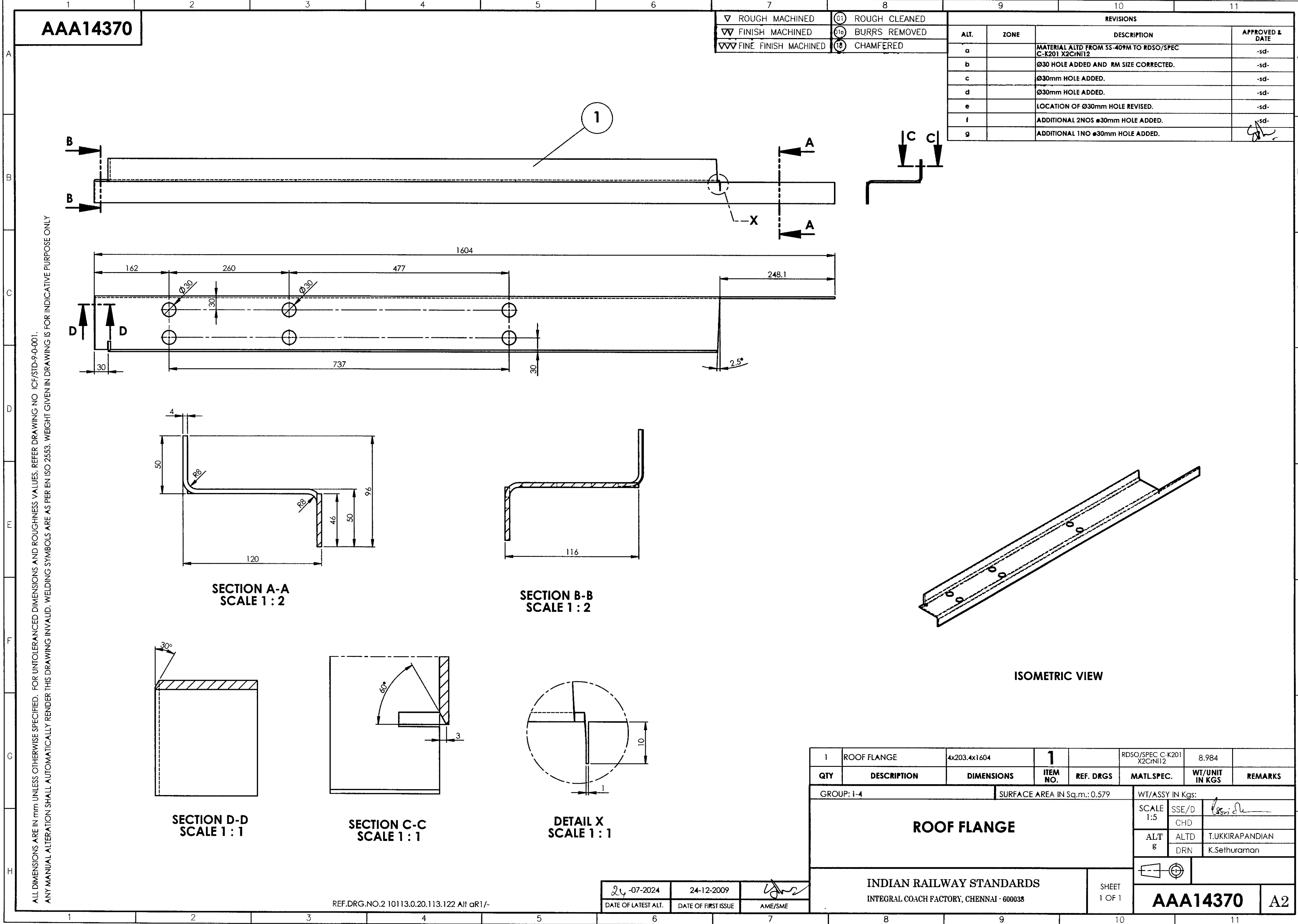
REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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**NOTE:-**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. 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.
9. ALL THE THREADED HOLES SHALL BE PROVIDED WITH SUITABLE DUMMY BOLTS TO SAFEGUARD THREADS.

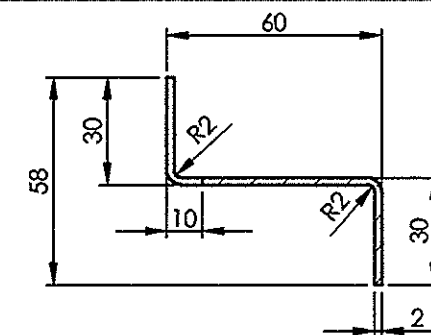
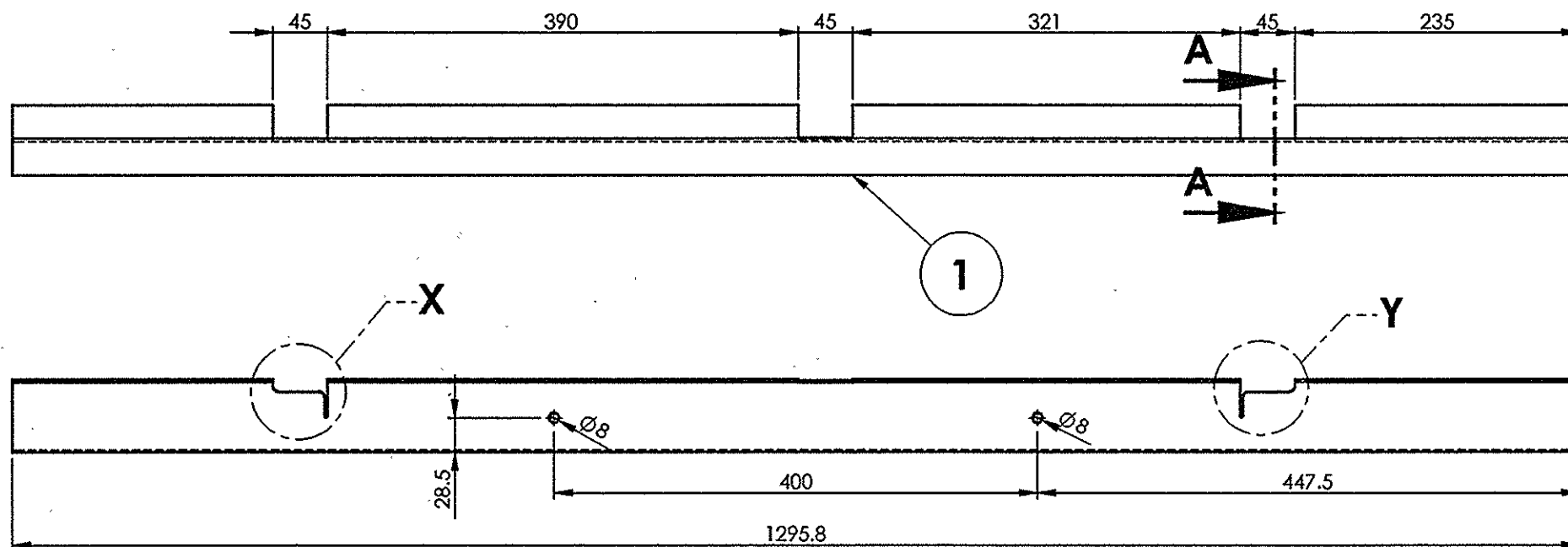
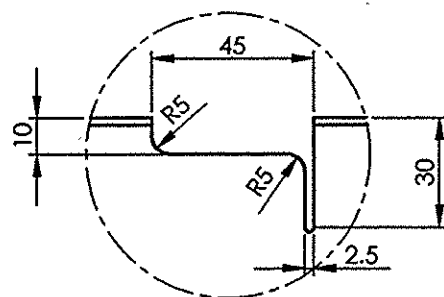
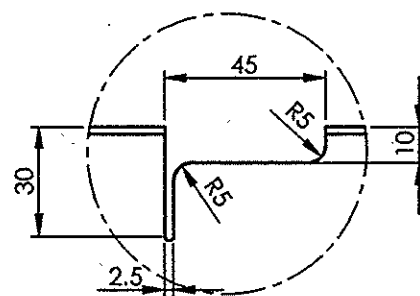
2	SCREWING PIECE		2	AAA14807		0.068	
1	CHANNEL		1	AAK14100		1.923	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4			SURFACE AREA IN Sq.m.:0.172		WT/ASSY IN Kgs:		
CHANNEL ASSEMBLY FOR WATER BOILER FIXING					SCALE	SSE/D	B. Senthil Kumar
					1:2	CHD	
					ALT.	ALTD	R. SANTHOSH KUMAR
						DRN	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1	LWCB/PP		
					98114042		
INTEGRAL COACH FACTORY, CHENNAI - 600038					A3		



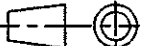
AAA14371

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a	B4	LOCATION OF MIDDLE CUTAWAY ALTD.	
b		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	<i>30/5</i>

SECTION A-A  
SCALE 1 : 2DETAIL X  
SCALE 1 : 2DETAIL Y  
SCALE 1 : 2

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

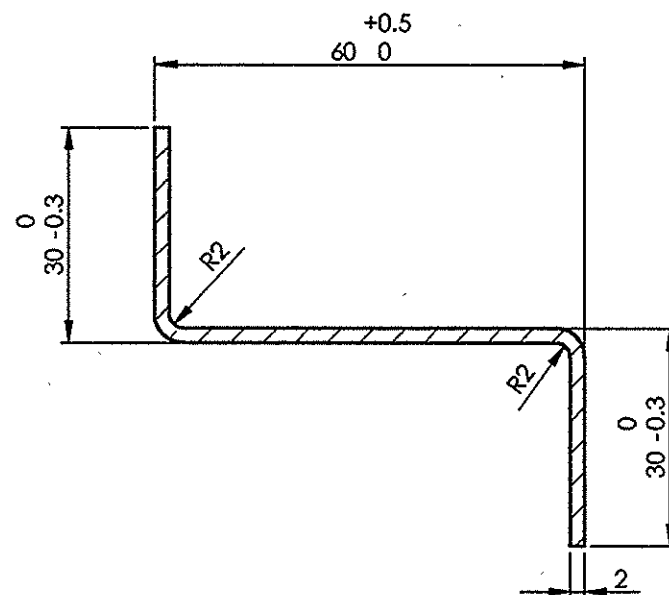
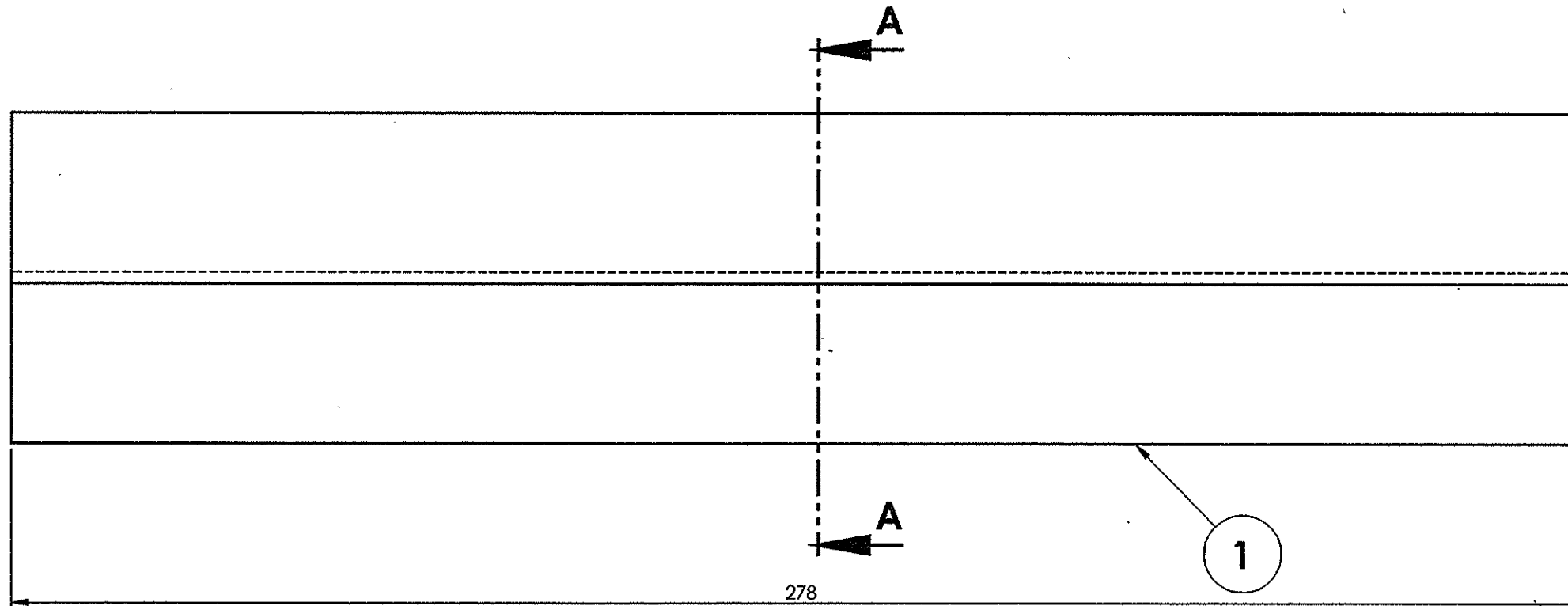
1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.275	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.291			WT/ASSY IN Kgs:2.276		
HORIZONTAL MEMBER					SCALE	SSE/D	<i>P. Kump</i>
					1:5	CHD	
					ALT. b	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
SHEET 1 OF 1					AAA14371		A3




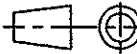
AAA14372

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

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12		10/3/25




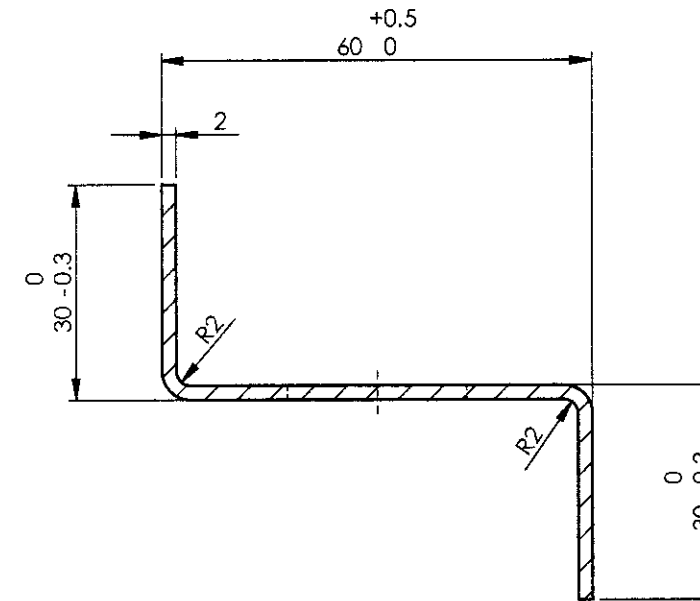
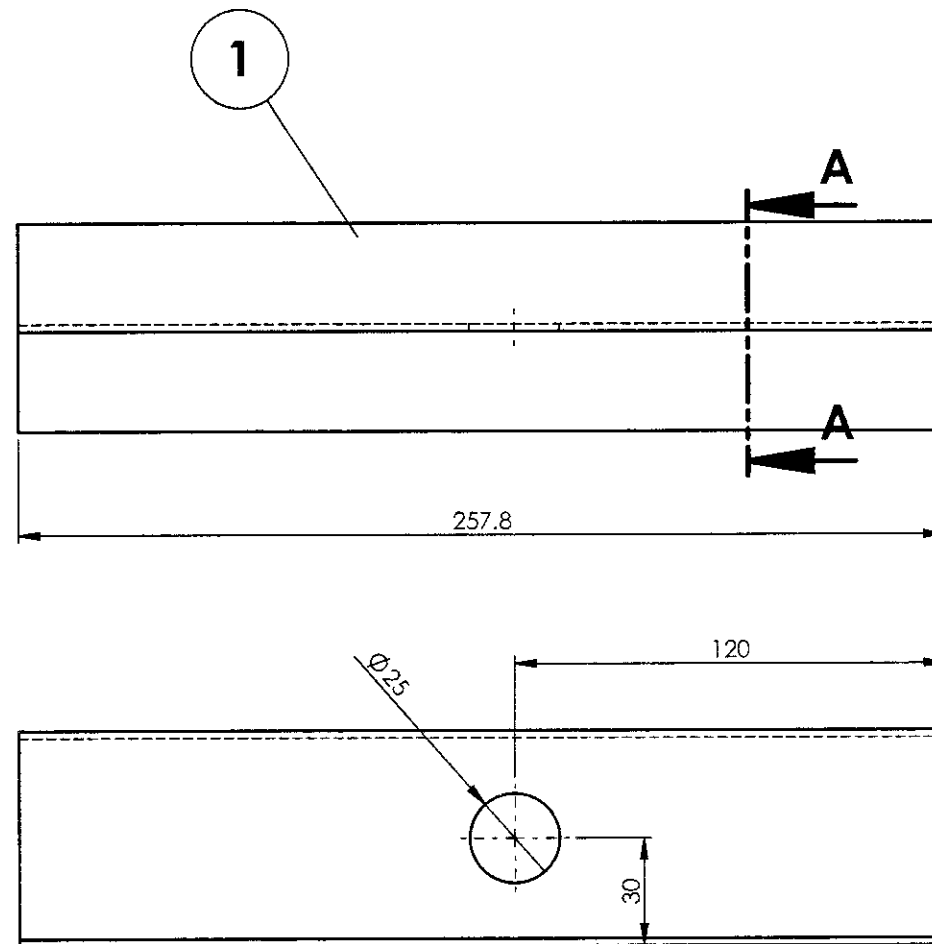
SECTION A-A

1	HORIZONTAL MEMBER	2x113.4x278	1		RDSO/SPEC C-K201 X2CrNi12	0.505		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATLSPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.064			WT/ASSY IN Kgs:0.501			
HORIZONTAL MEMBER					SCALE	SSE/D		
					1:1	CHD		
					ALT. a	ALTD	ASWIN	
						DRN	K.Sethuraman	
INDIAN RAILWAY STANDARDS								
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		AAA14372	A3

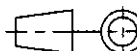
REF.DRG.NO.210113.1.20.113.156

WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	sd/-
b		Ø25 HOLE INTRODUCED. PLAN VIEW ADDED.	



**SECTION A-A**  
**SCALE 1 : 1**

1	HORIZONTAL MEMBER	2x113.4x257.8	1 ITEM NO.		RDSO/SPEC C-K201 X2CrNi12	0.460			
QTY	DESCRIPTION	DIMENSIONS		REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS		
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.059			WT/ASSY IN Kgs:				
HORIZONTAL MEMBER					SCALE	SSE/D	<i>As per</i>		
					1:2	CHD			
					ALT. b	ALTD	G.VIMALA		
						DRN	K.Sethuraman		
					INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038		AAA14373		A3					

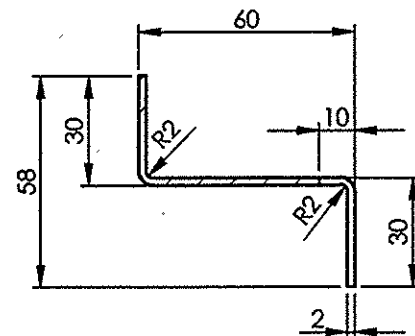
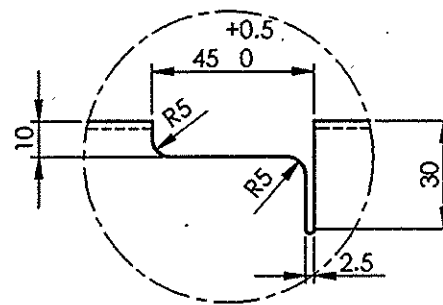
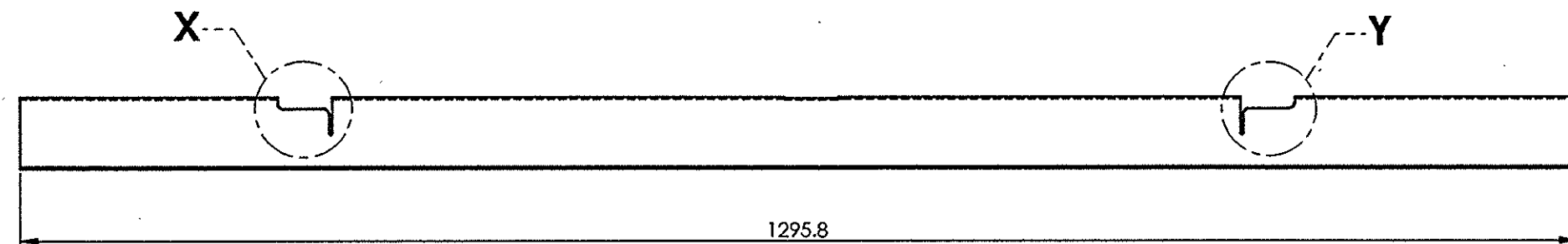
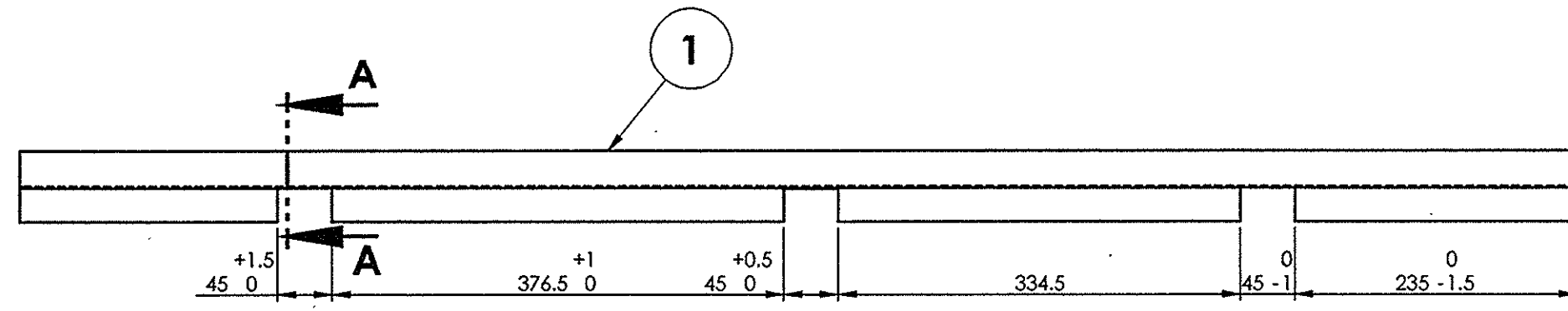
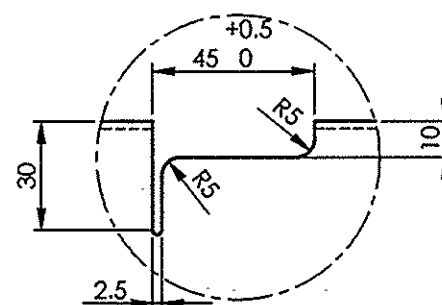
AAA14374

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


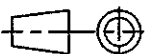
① ROUGH CLEANED  
①b BURRS REMOVED  
⑱ CHAMFERED

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	39/5

SECTION A-A  
SCALE 1 : 2DETAIL X  
SCALE 1 : 2DETAIL Y  
SCALE 1 : 2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS 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.

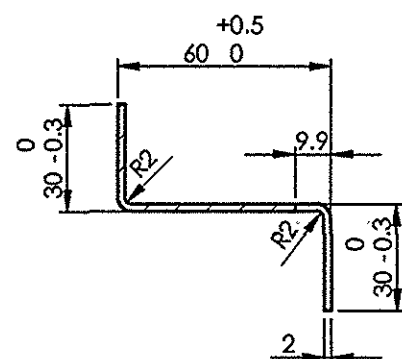
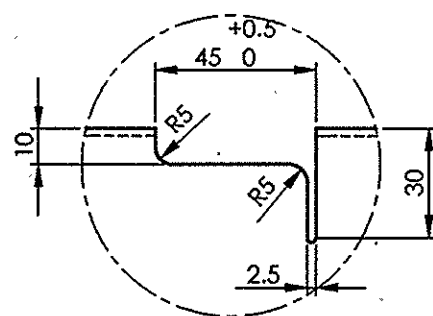
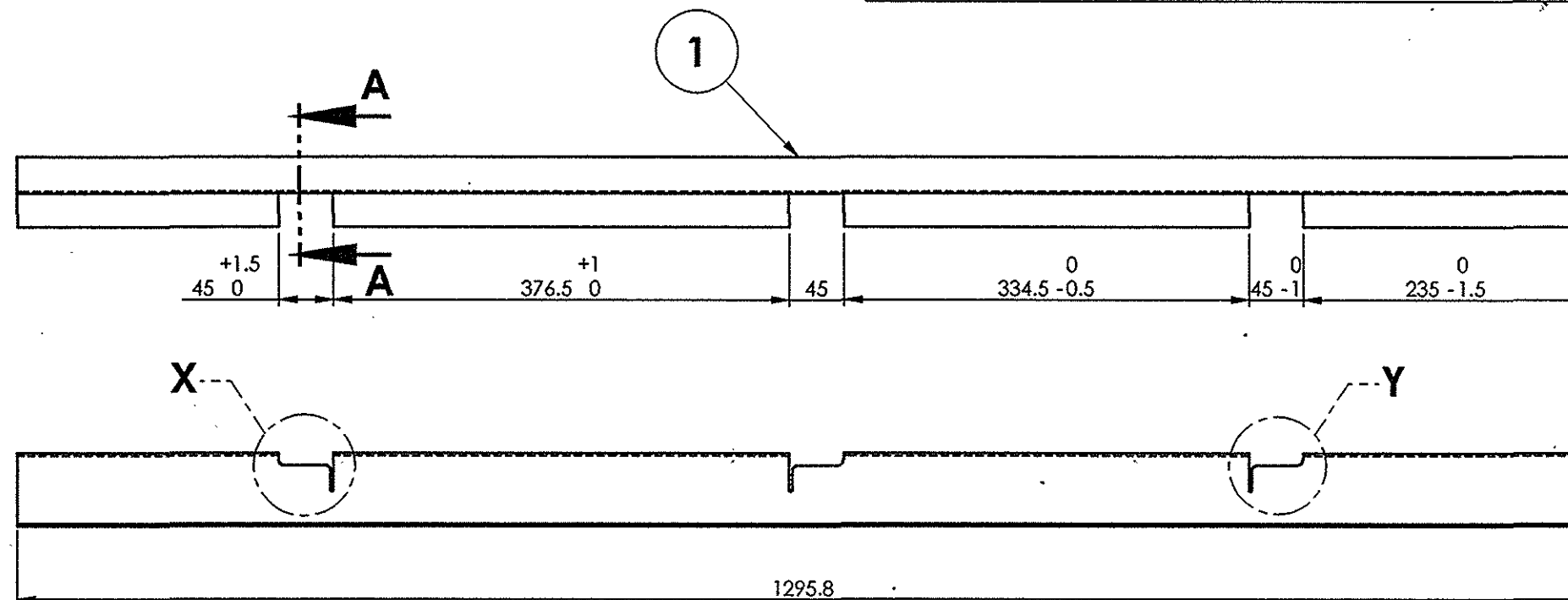
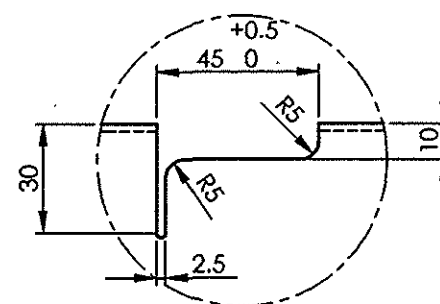
1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.277						
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS					
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.291			WT/ASSY IN Kgs:2.278							
HORIZONTAL MEMBER					SCALE 1:5	SSE/D CHD						
					ALT. a	ALTD DRN		ASWIN K.sethuraman				
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600088							A3
					SHEET 1 OF 1							

AAA14375

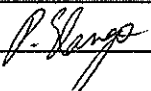
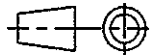
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⑱ CHAMFERED

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	<i>30/5</i>

SECTION A-A  
SCALE 1:2DETAIL X  
SCALE 1:2DETAIL Y  
SCALE 1:2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS 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.

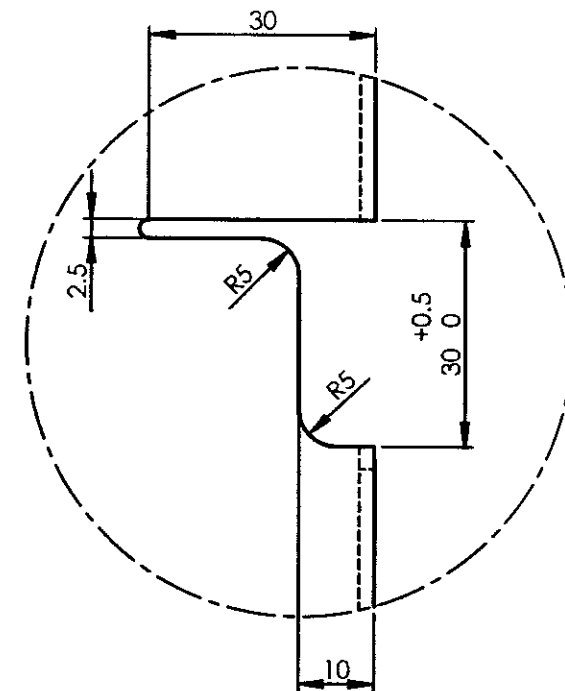
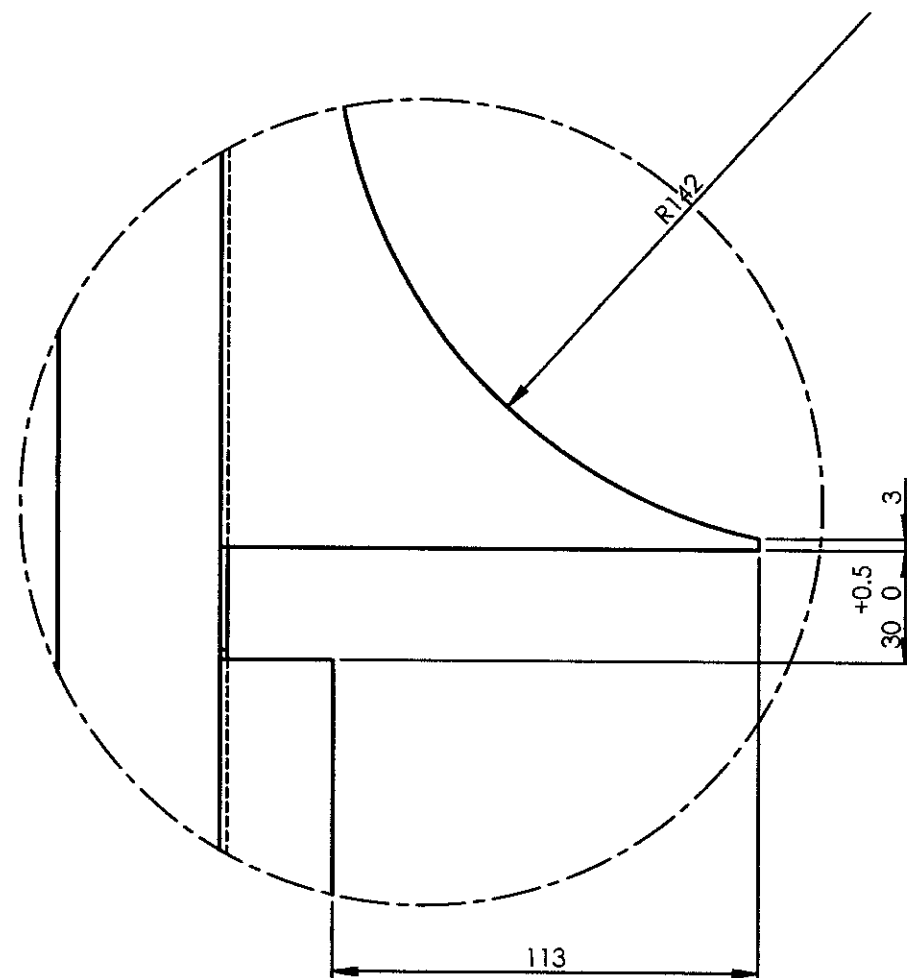
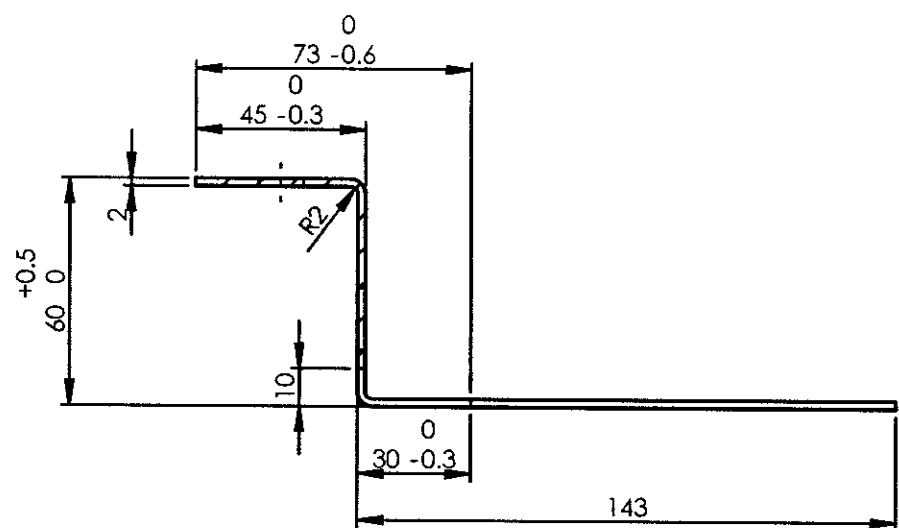
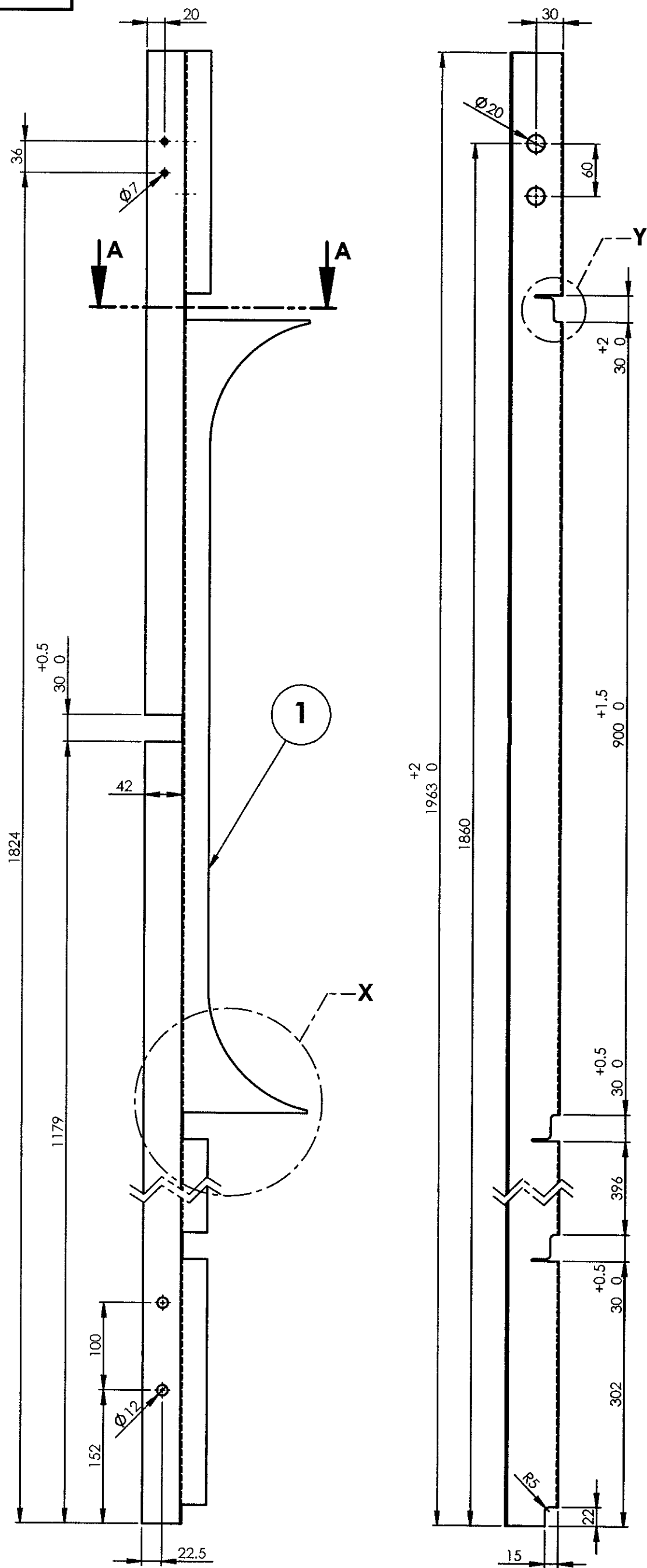
1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.270	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.290			WT/ASSY IN Kgs:2.271		
HORIZONTAL MEMBER					SCALE	SSE/D	
					1:5	CHD	
					ALT. a	ALTD	ASWIN
						DRN	K.sethuraman
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14375		A3

DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME
		<i>30/5</i>

AAA14376

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	-sd-
b		ADDITIONAL 1 NO #20mm HOLE PROVIDED.	



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.210113.1020.112.120

21-07-2024	30-05-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	VERTICAL PILLAR	2x241.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	4.066	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4				SURFACE AREA IN Sq.m.: 0.519		WT/ASSY IN Kgs:	
VERTICAL PILLAR				SCALE 1:5	SSE/D	K.sethuraman	
					CHD		
				ALT b	ALTD	T.Ukkirapandian	
					DRN	K.sethuraman	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAA14376	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A2	

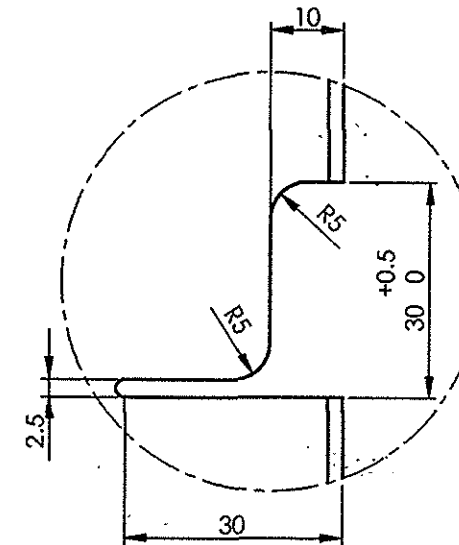
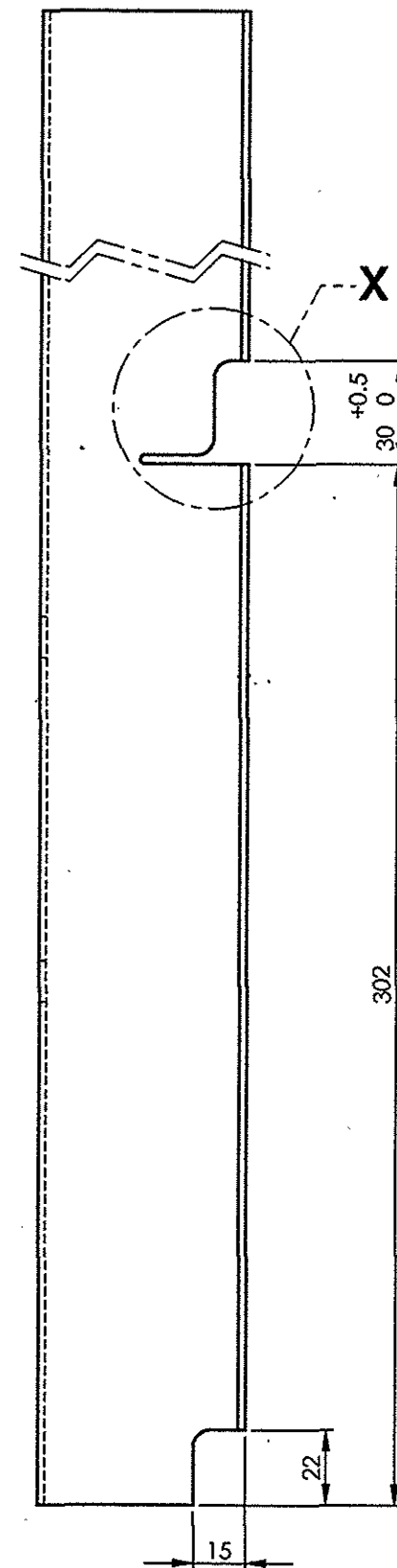
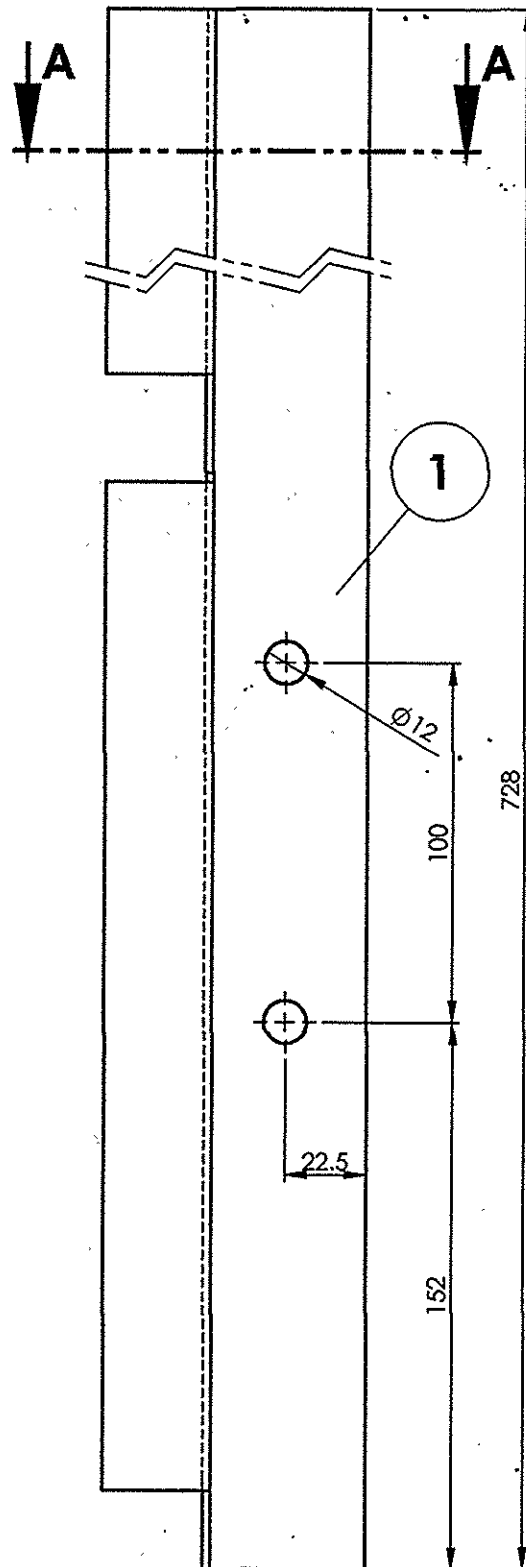
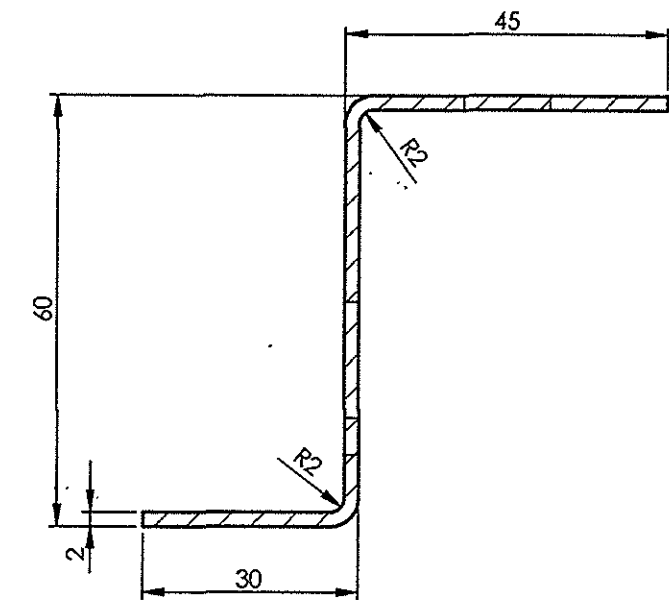


AAA14377

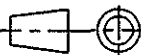
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	30/5


DETAIL X  
SCALE 1 : 1SECTION A-A  
SCALE 1 : 1

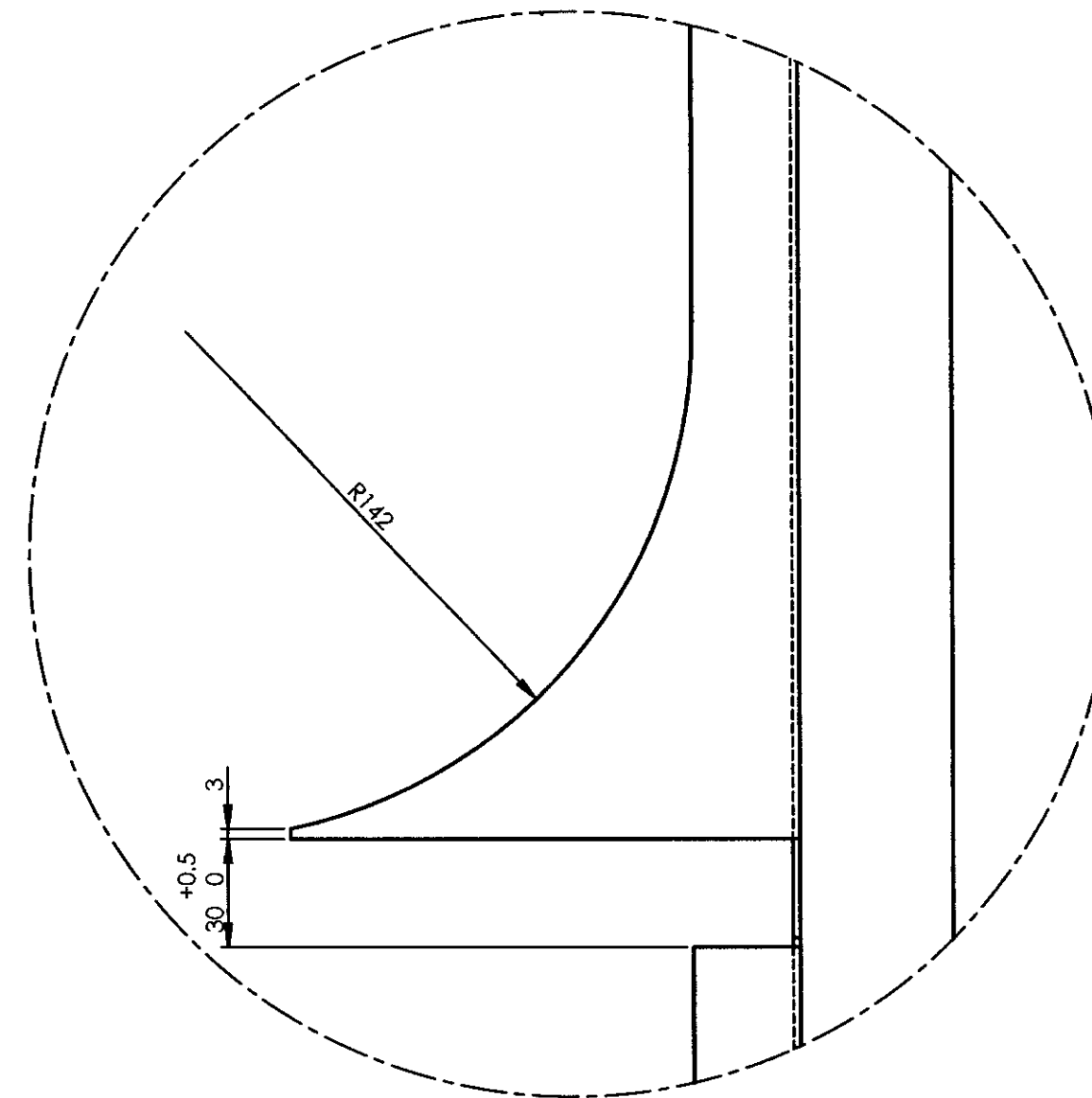
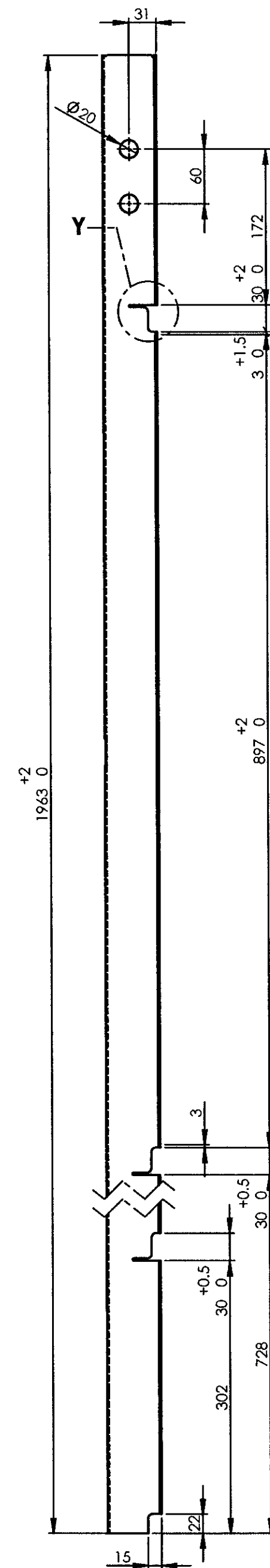
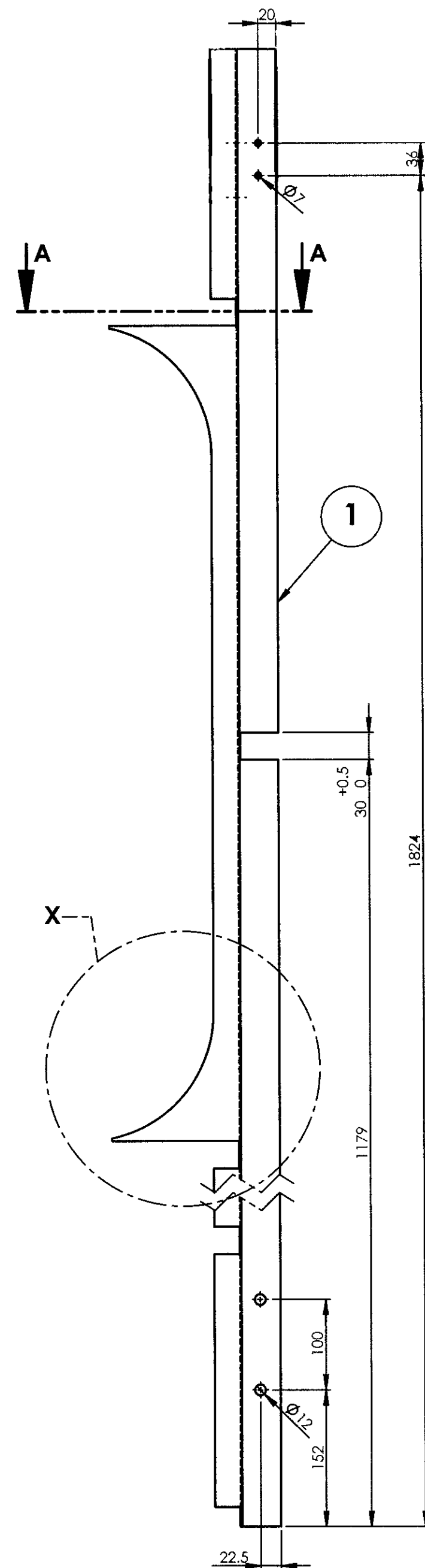
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

1	VERTICAL PILLAR	2x128.4x728	1		RDSO/SPEC C-K201 X2CrNi12	1.459	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
.GROUP: 1-4		SURFACE AREA IN Sq.m.:0.186			WT/ASSY IN Kgs:1.460		
VERTICAL PILLAR					SCALE	SSE/D	<i>P. Sango</i>
					1:2	CHD	
					ALT. a	ALTD	ASWIN
						DRN	K.sethuraman
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14377		A3

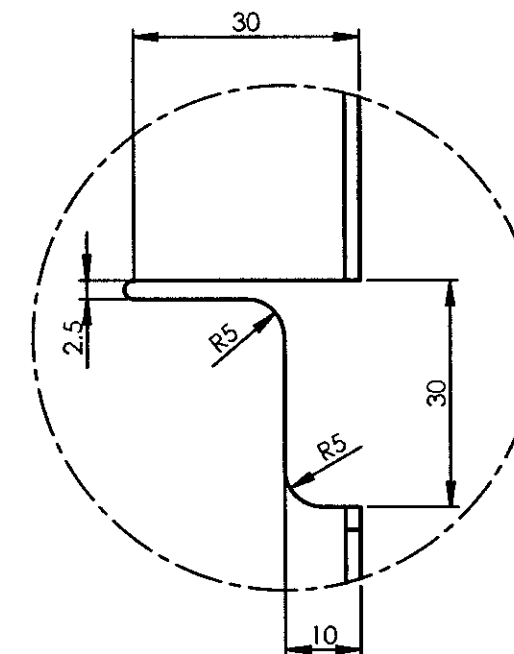
ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. 1017312-7-0001.

01	ROUGH CLEANED
010	BURRS REMOVED
18	CHAMFERED

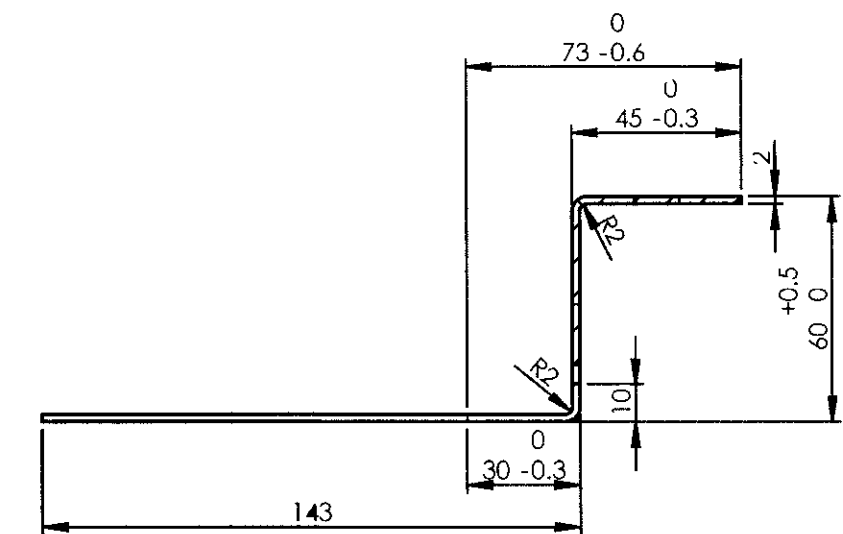
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	-sd-
b		ADDITIONAL 1NO #20mm HOLE PROVIDED.	



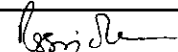
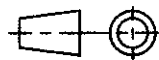
**DETAIL X**  
**SCALE 1 : 2**



**DETAIL Y**  
**SCALE 1 : 1**



**SECTION A-A**  
**SCALE 1 : 2**

I	VERTICAL PILLAR	2x241.4x1963	1		RDSO/SPEC C-K201 X2Cn112	4.071	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATLSPEC.	WT/UNIT IN KGS	REMARKS
GROUP: I-4			SURFACE AREA IN Sq.m.: 0.519			WT/ASSY IN Kgs:	
VERTICAL PILLAR					SCALE 1:5	SSE/D CHD	
					ALT/b	ALTD	T.Ukkirapandian
						DRN	K.sethuraman
							
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1	AAA14378		
				A2			

REF.DRG.NO.210113.1020.112.120

24-07-2024	30-05-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	A.M.E./SME

**INDIAN RAILWAY STANDARDS**  
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET  
1 OF 1


**AAA14378**

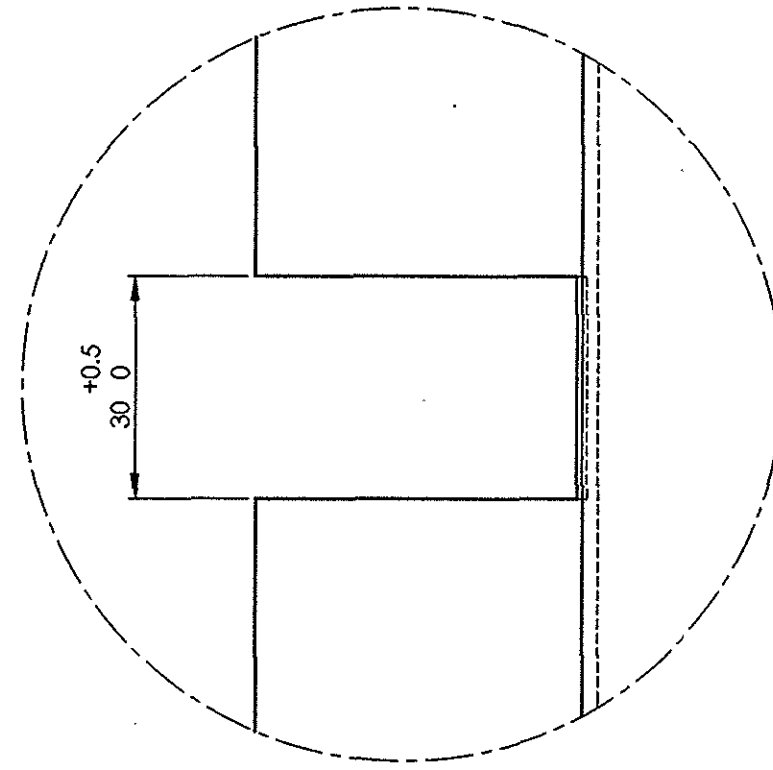
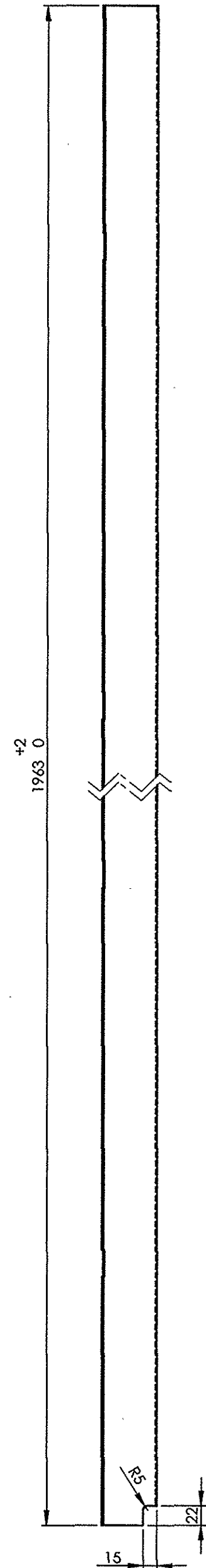
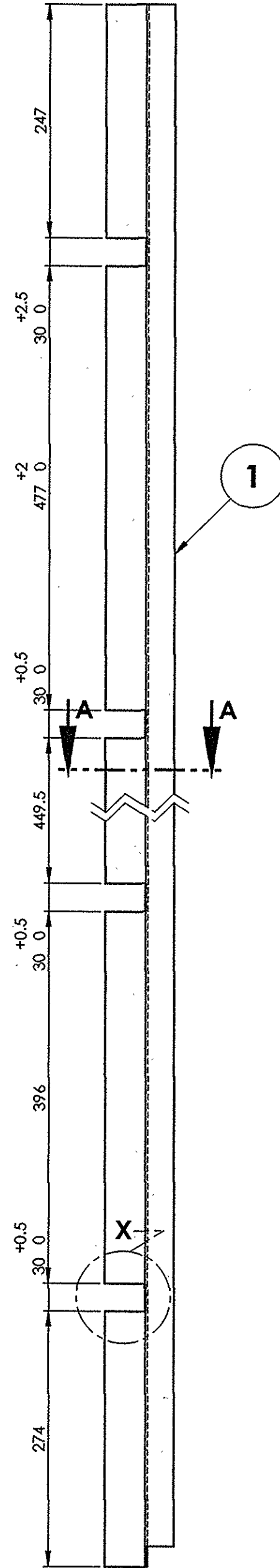
A2

AAA14379

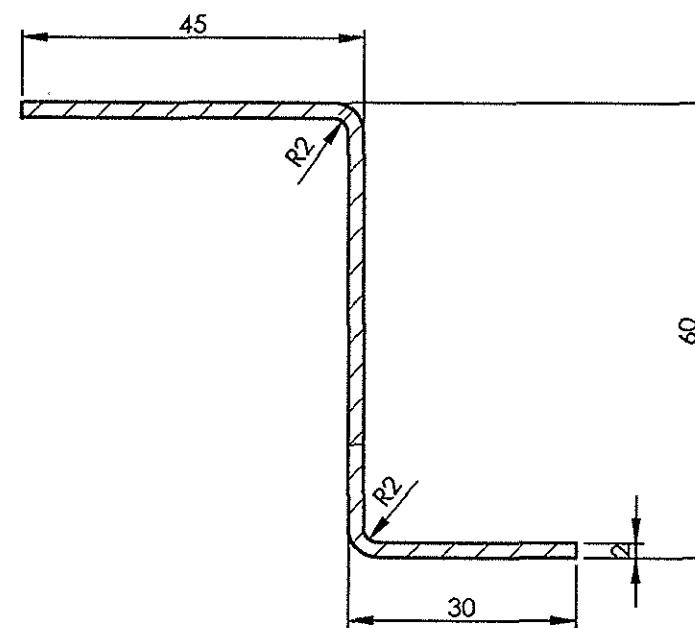
▽ ROUGH MACHINED  
▽▽ FINISH MACHINED  
▽▽▽ FINE FINISH MACHINED

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	

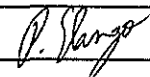



DETAIL X  
SCALE 1 : 1



SECTION A-A  
SCALE 1 : 1

30/5/13		10/2/2013
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME

1	VERTICAL PILLAR	2x128.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	3.936	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 14		SURFACE AREA IN Sq.m.: 0.501			WT/ASSY IN Kgs: 3.936		
VERTICAL PILLAR					SCALE 1:5	SSE/D	
						CHD	
					ALT a	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14379 A2		

AAA14380

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

①b BURRS REMOVED

⑱ CHAMFERED

REVISIONS

ALT.

ZONE

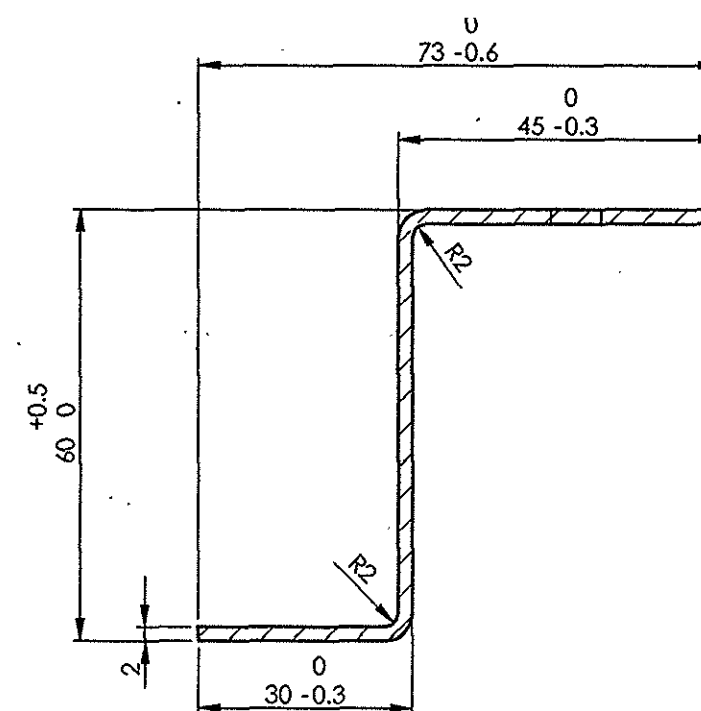
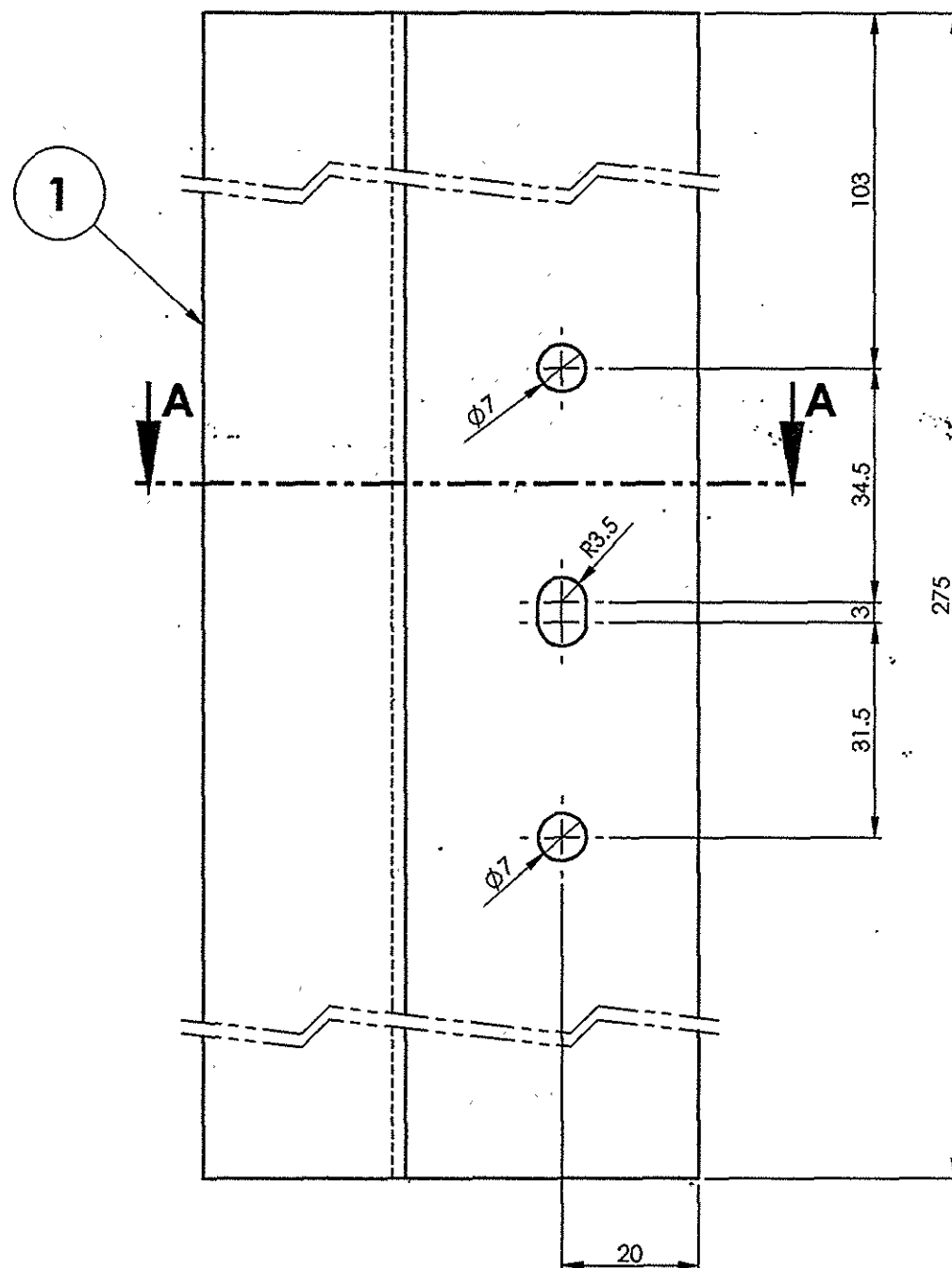
DESCRIPTION

APPROVED &  
DATE

a

MATERIAL ALTD FROM SS-409M TO RDSO/SPEC  
C-K201 X2CrNi12

30/5



SECTION A-A

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.210113.1.20.112.118

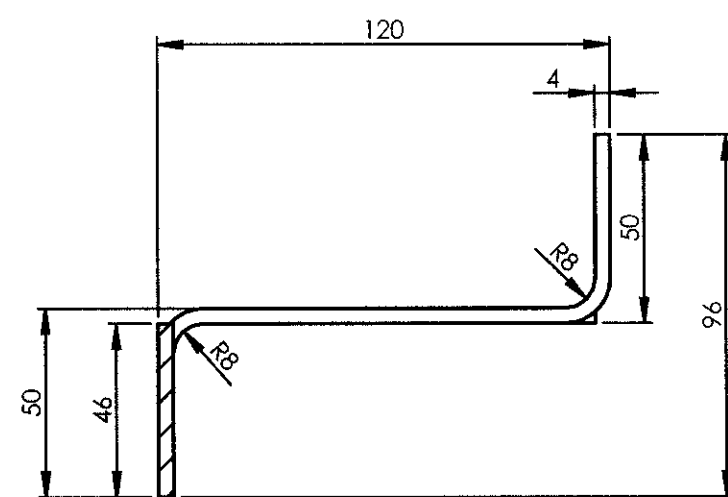
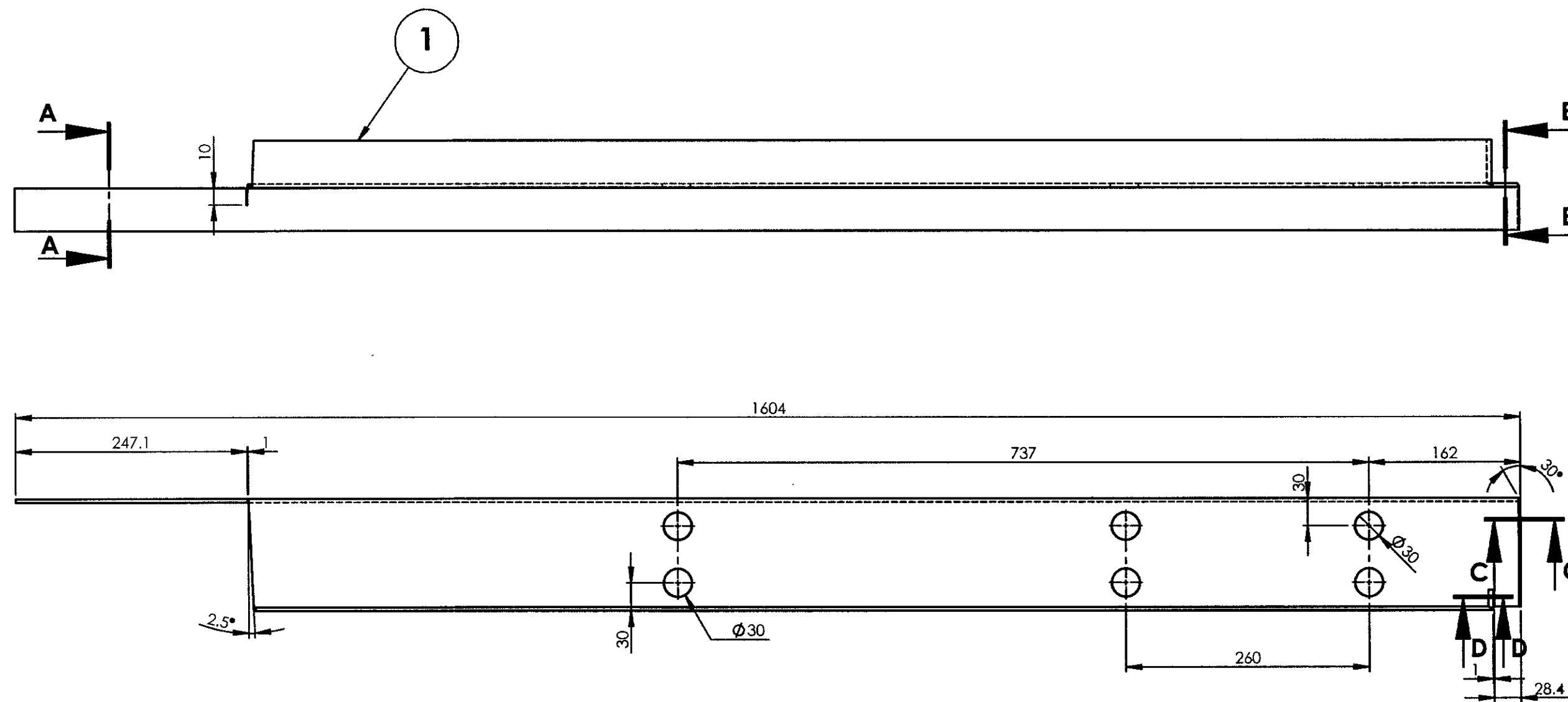
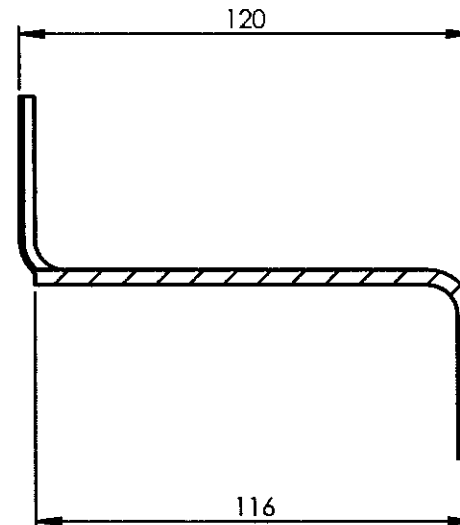
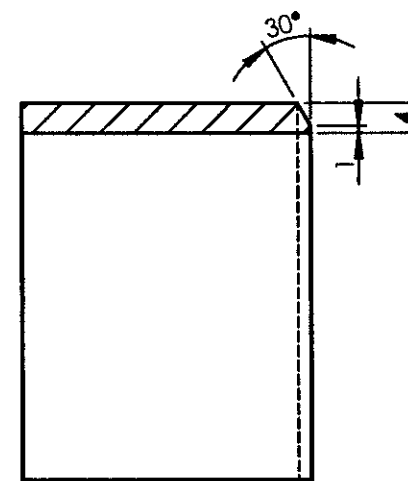
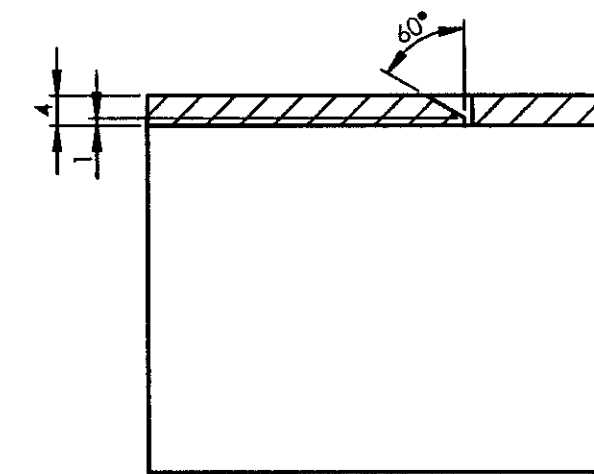
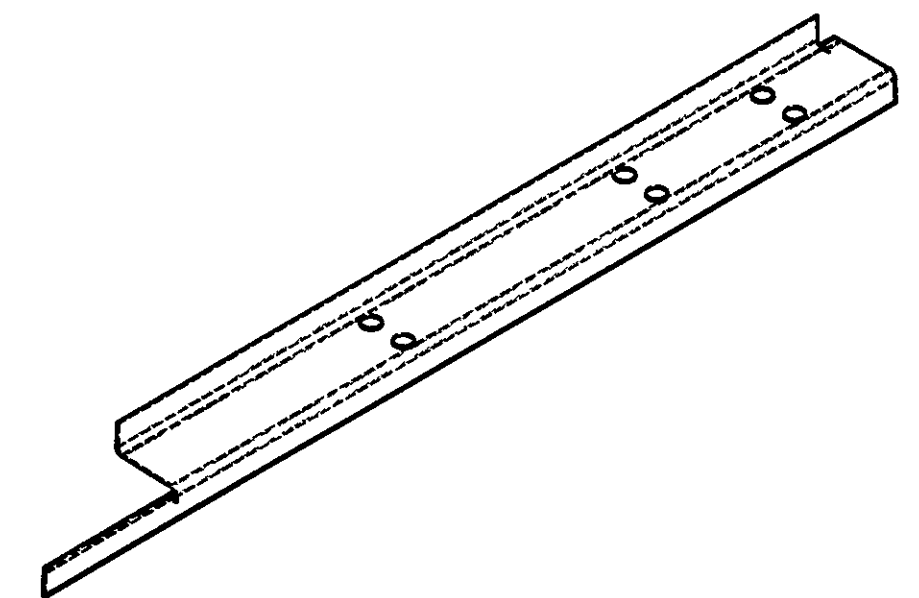
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME
		30/5



1	VERTICAL PILLAR	2x128.4x275	1		RDSO/SPEC C-K201 X2CrNi12	0.563	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:0.563	
VERTICAL PILLAR					SCALE 1:1	SSE/D CHD	<i>P. Vargo</i>
					ALT. a	ALTD DRN	ASWIN K.Sethuraman
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14380		A3

AAA14381

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	-sd-
b		Ø30 HOLE ADDED.	-sd-
c		Ø30 HOLE ADDED.	-sd-
d		LOCATION OF Ø30 HOLES REVISED.	-sd-
e		ADDITIONAL 2NOS Ø30mm HOLES ADDED.	-sd-
f		ADDITIONAL 2NOS Ø30mm HOLES ADDED.	-sd-

SECTION A-A  
SCALE 1 : 2SECTION B-B  
SCALE 1 : 2SECTION C-C  
SCALE 1 : 1SECTION D-D  
SCALE 1 : 1

1	ROOF FLANGE	4x203.4x1604	1		RDSO/SPEC C-K201 X2CrNi12	8.985		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATLSPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-4			SURFACE AREA IN Sq.m.: 0.579			WT/ASSY IN Kgs:		
ROOF FLANGE						SCALE 1:5	SSE/D 	
						CHD		
						ALT f	ALTD	T.UKKIRAPANDIAN
						DRN		K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
					AAA14381		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 EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

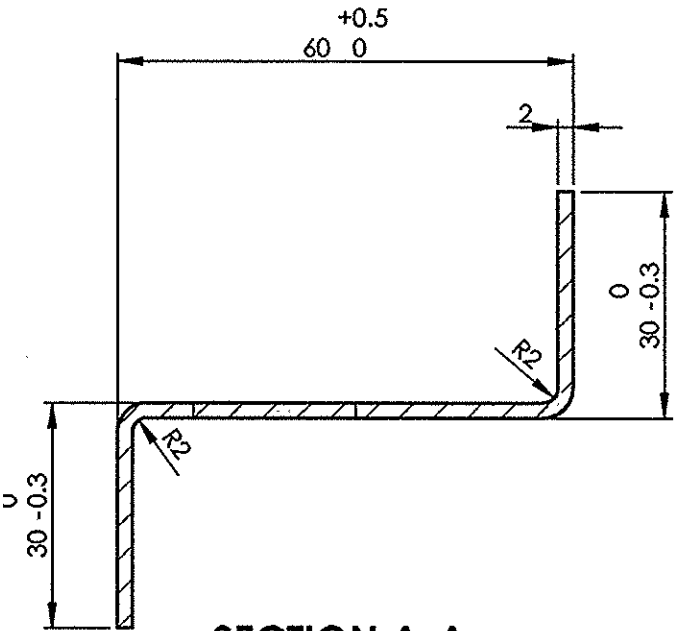
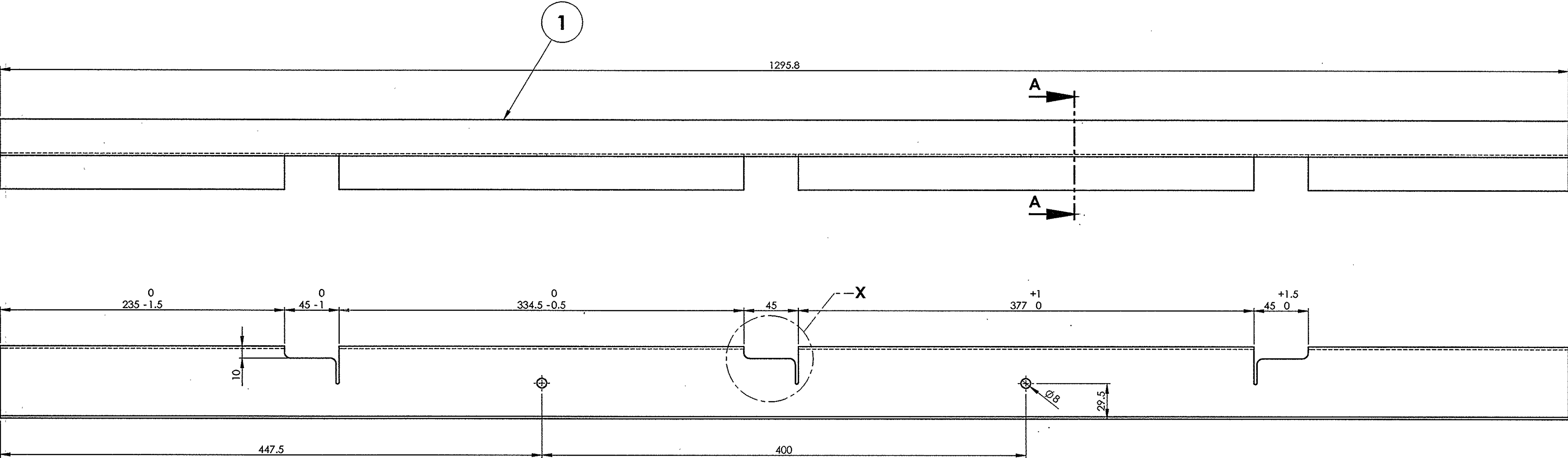
REF.DRG.NO.2 10113.0.20.113.133 Alt Ra/-

24-07-2024	16-01-2010	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

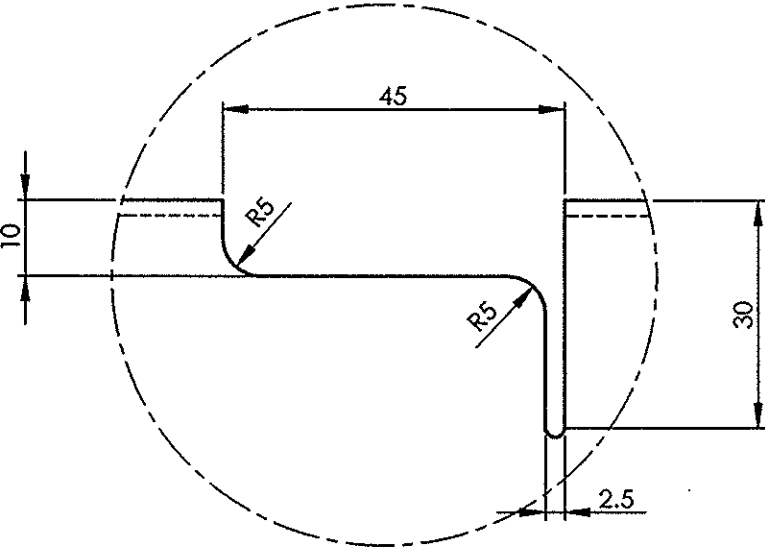


AAA14382

▽ ROUGH MACHINED	01	ROUGH CLEANED	REVISIONS			
▽▽ FINISH MACHINED	01b	BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED	18	CHAMFERED	a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	10/5/13



SECTION A-A  
SCALE 1 : 1

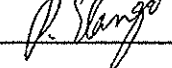



DETAIL X  
SCALE 1 : 1

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.210113.1.20.113.155\_ 'a'

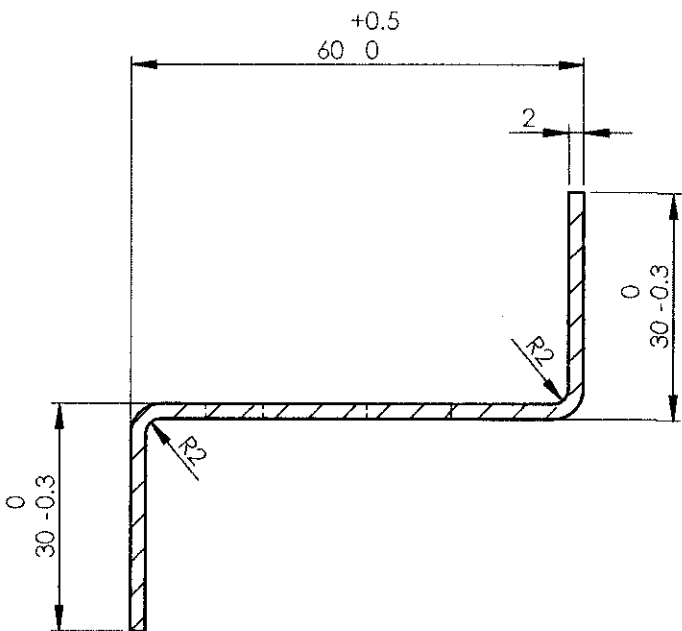
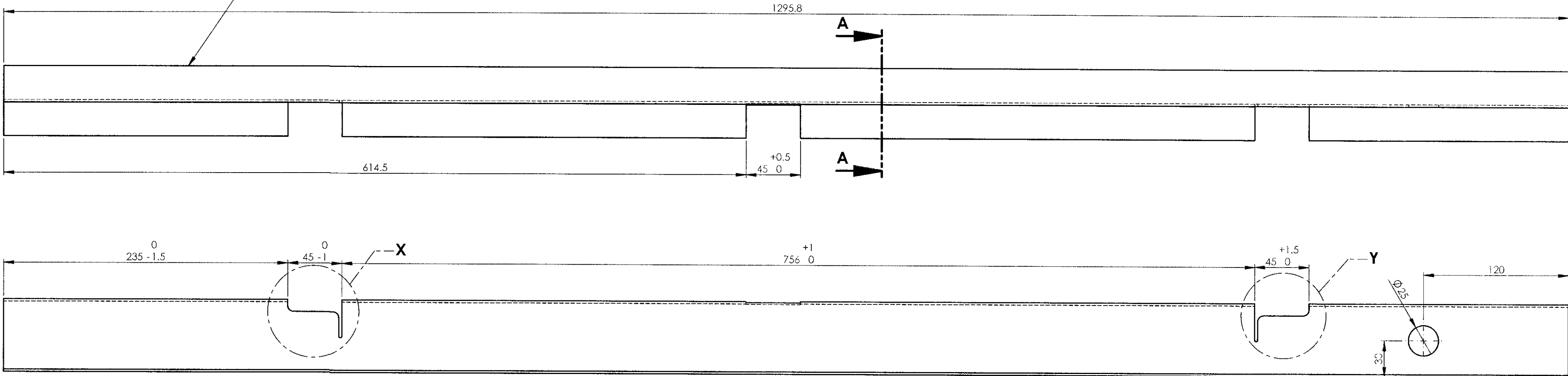
30/5/13		10/5/13
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.268	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.: 0.290			WT/ASSY IN Kgs: 2.268		
HORIZONTAL MEMBER					SCALE 1:2.5	SSE/D	
						CHD	
					ALT a	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
						SHEET 1 OF 1	
					AAA14382		A2

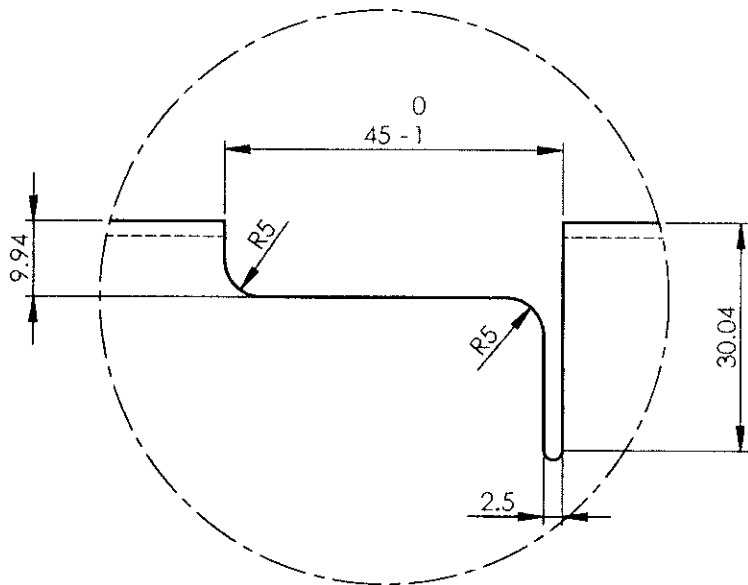
AAA14383

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

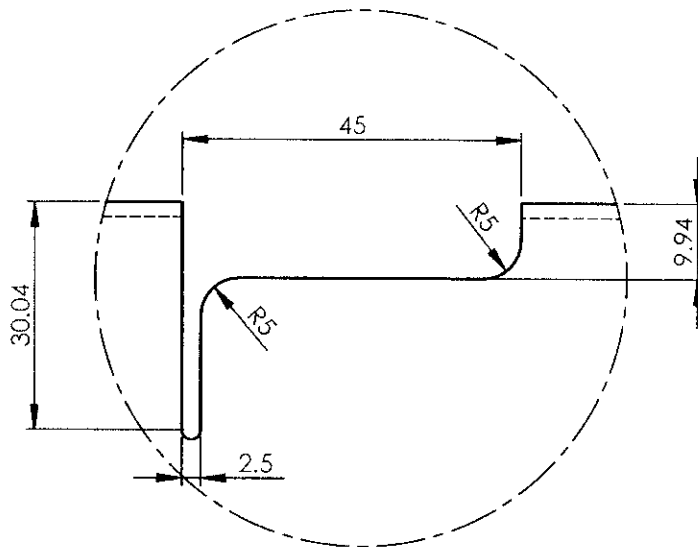
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	sd/-
b		Ø25 HOLE INTRODUCED.	



SECTION A-A  
SCALE 1 : 1



DETAIL X  
SCALE 1 : 1



DETAIL Y  
SCALE 1 : 1

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 IS813-1986.

REF.DRG.NO.210113.1.20.113.154\_'a'

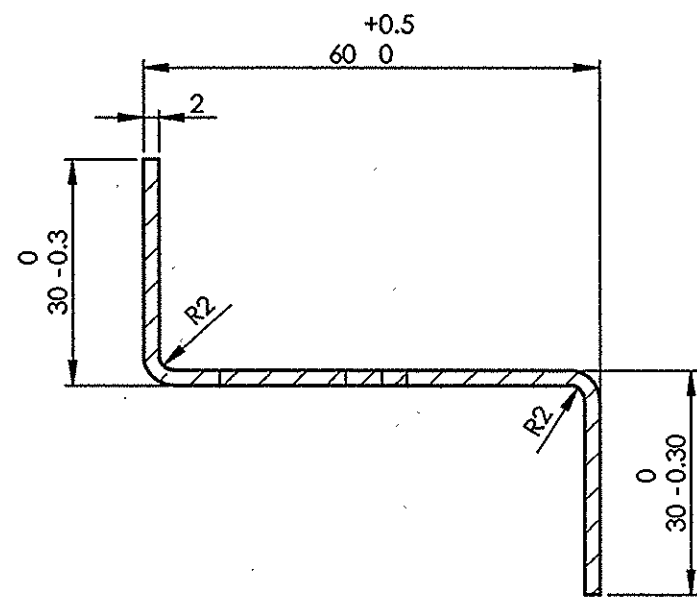
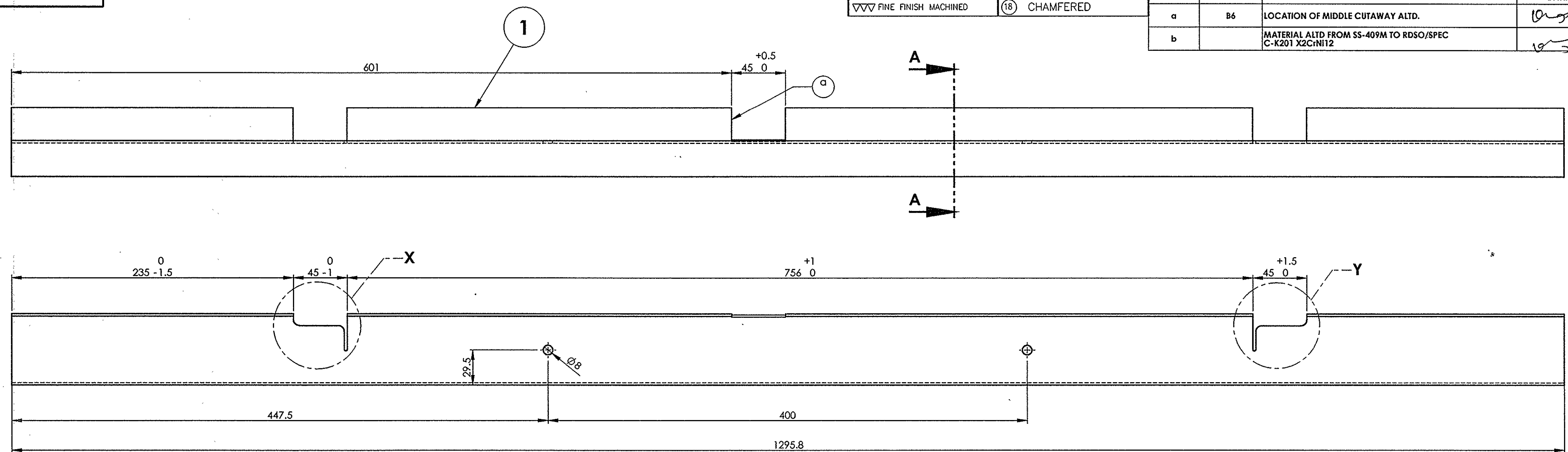
16-11-2021	18-01-2010	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.269	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATLSPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4				SURFACE AREA IN Sq.m.: 0.290			WT/ASSY IN Kgs: 2.269
HORIZONTAL MEMBER						SCALE 1:2.5	SSE/D CHD
						ALT b	ALT D G.VIMALA
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						SHEET 1 OF 1	AAA14383 A2

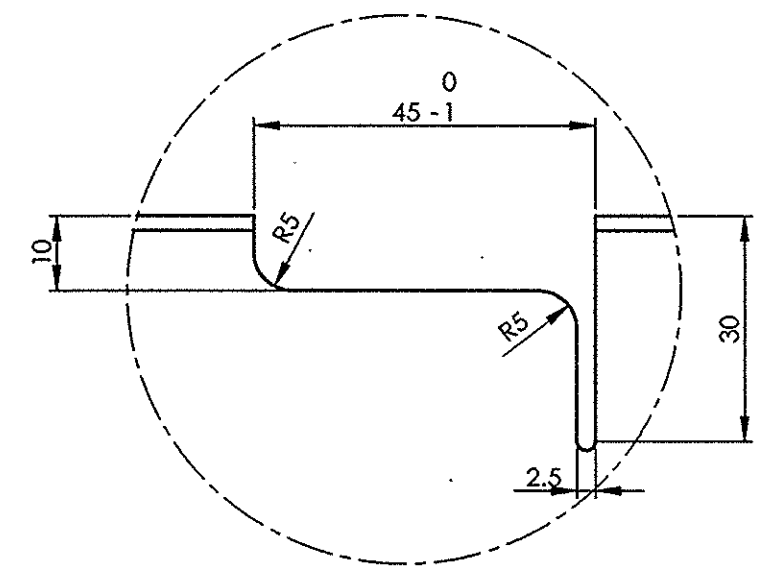
AAA14384

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

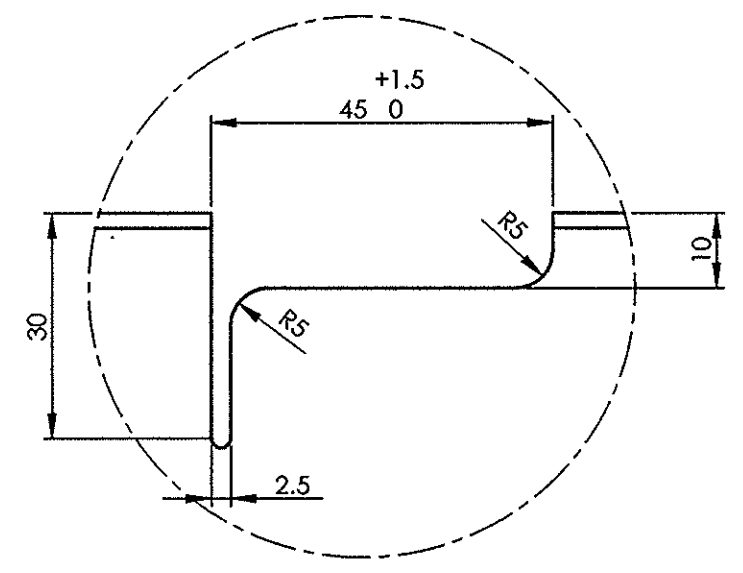
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a	B6	LOCATION OF MIDDLE CUTAWAY ALTD.	<i>[Signature]</i>
b		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	<i>[Signature]</i>



SECTION A-A  
SCALE 1:1

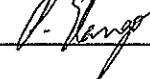
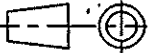


DETAIL X  
SCALE 1:1



DETAIL Y  
SCALE 1:1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS813:1986.

1	HORIZONTAL MEMBER	2x113.4x1295.8	1		RDSO/SPEC C-K201 X2CrNi12	2.275	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 14		SURFACE AREA IN Sq.m.:0.291			WT/ASSY IN Kgs:2.275		
HORIZONTAL MEMBER					SCALE 1:2.5	SSE/D	
						CHD	
					ALT <sub>b</sub>	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
						AAA14384	

3-15/13	18-1-'10	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	SME

AAA14385

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

ZONE

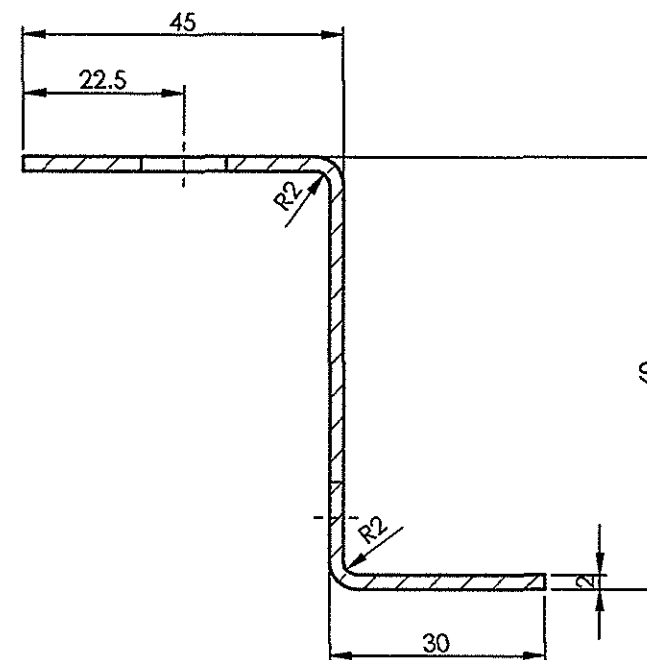
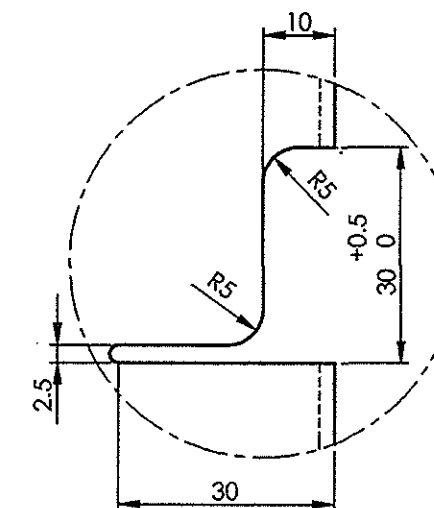
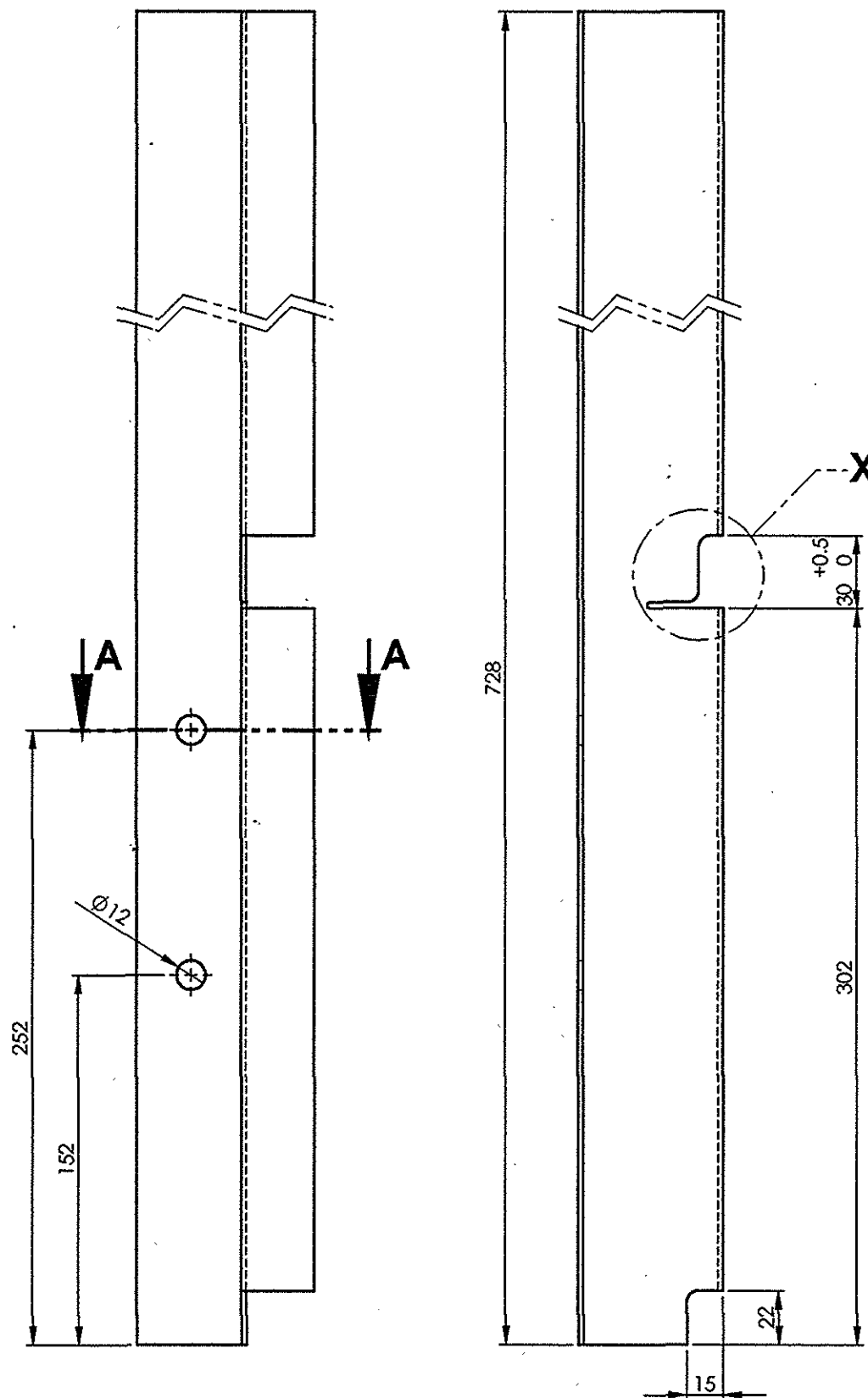
DESCRIPTION


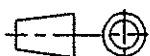
APPROVED &  
DATE

a

MATERIAL ALTD FROM SS-409M TO RDSO/SPEC  
C-K201 X2CrNi12

30/5

SECTION A-A  
SCALE 1:1DETAIL X  
SCALE 1:1

1	VERTICAL PILLAR	2x128.4x728	1		RDSO/SPEC C-K201 X2CrNi12	1.459	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.186			WT/ASSY IN Kgs:1.459		
VERTICAL PILLAR					SCALE	SSE/D	
					1:2.5	CHD	
					ALT. a	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14385		A3

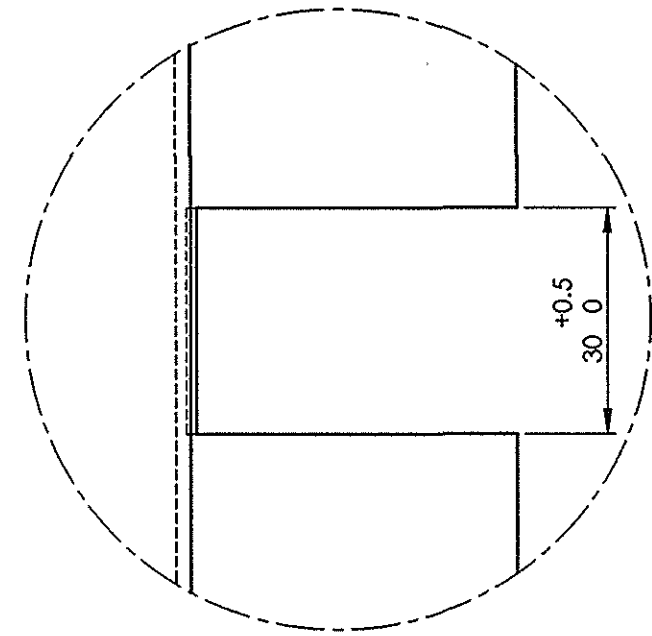
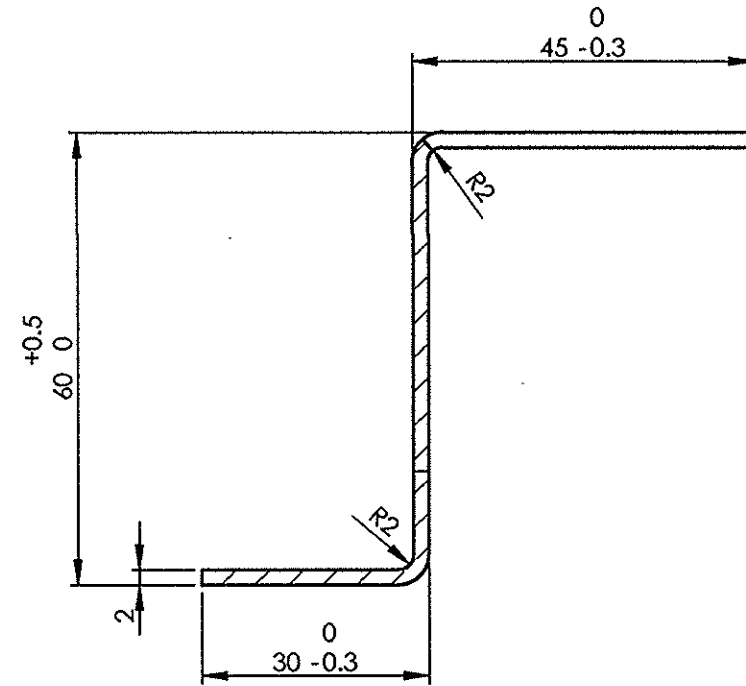
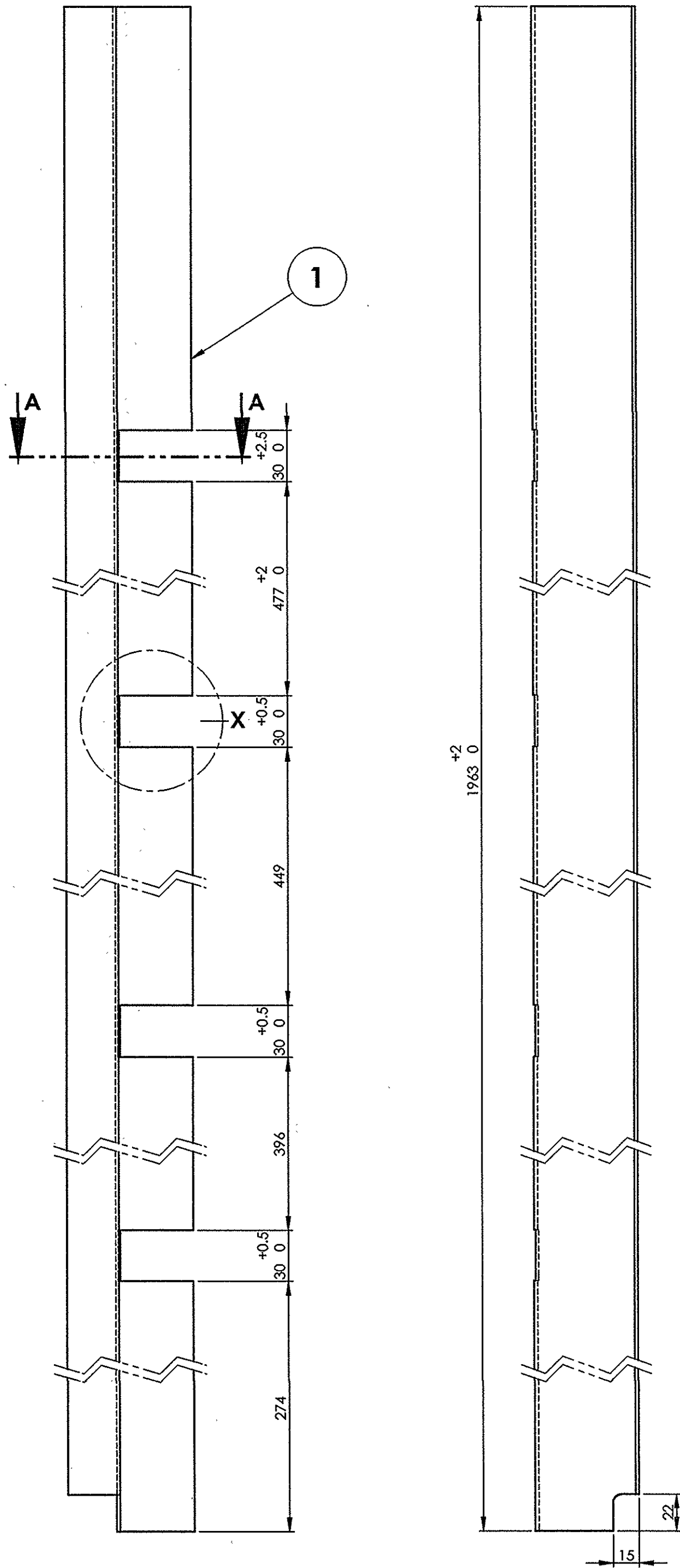
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.210113.1.20.112.117

AAA14386

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


REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATERIAL ALTD FROM SS-409M TO RDSO/SPEC C-K201 X2CrNi12	10/2015



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.210113.120.112.123

30/5/13		10/2015
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

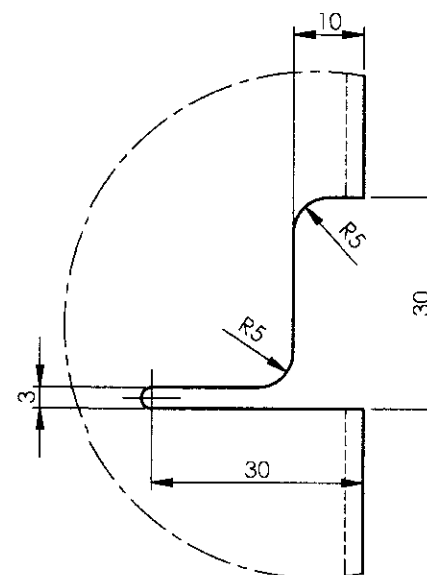
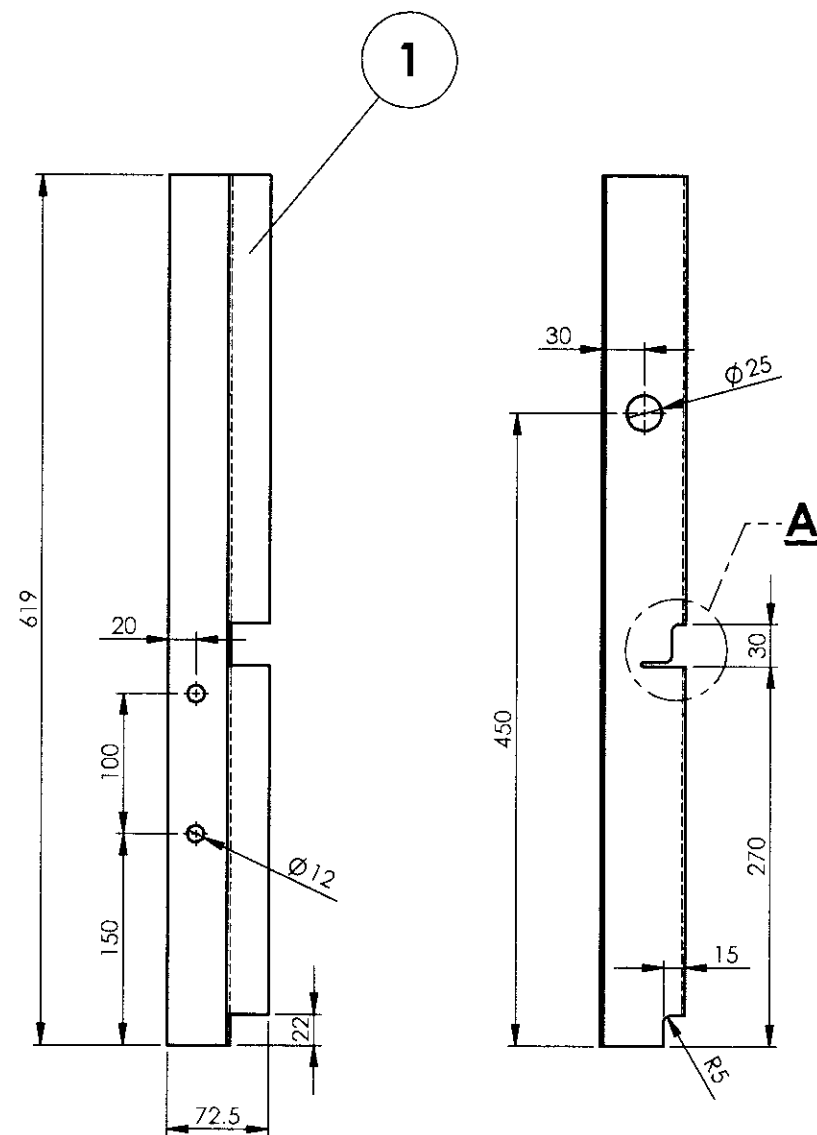
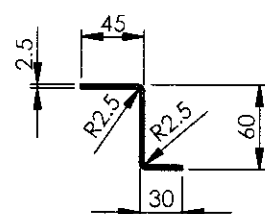
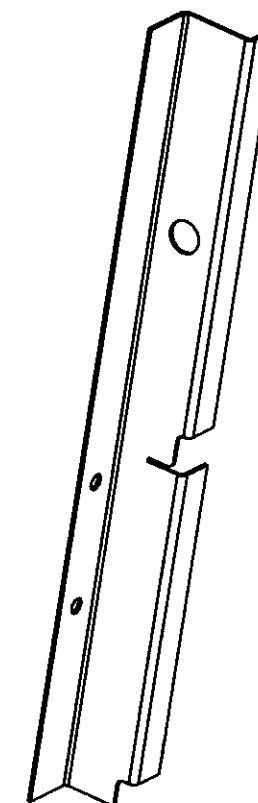
1	VERTICAL PILLAR	2x128.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	3.936	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.: 0.501			WT/ASSY IN Kgs: 3.936		
VERTICAL PILLAR					SCALE 1:2.5	SSE/D	<i>P. Shango</i>
						CHD	
					ALT a	ALTD	ASWIN
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038							
						SHEET 1 OF 1	
					AAA14386		A2



AAA14389

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

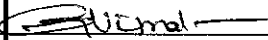
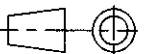
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MAT SPEC UPDATED.	sd/-
b		Ø 12 HOLES ADDED.	sd/-
c		Ø 25mm HOLE ADDED	<i>M.K.</i>

DETAIL A  
SCALE 1 : 1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/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.

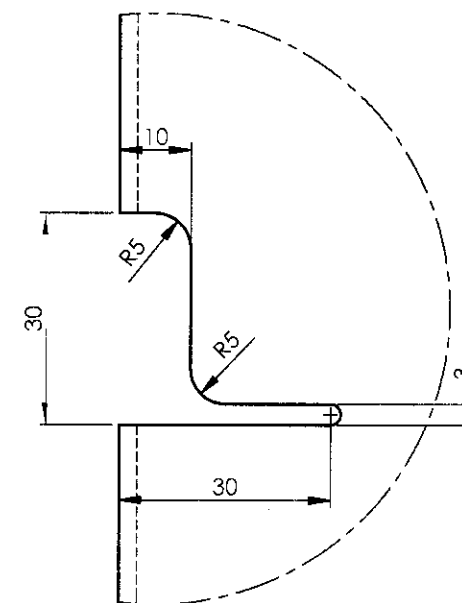
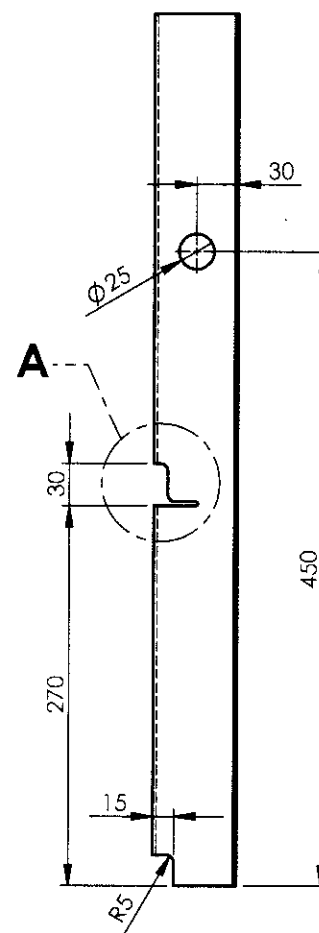
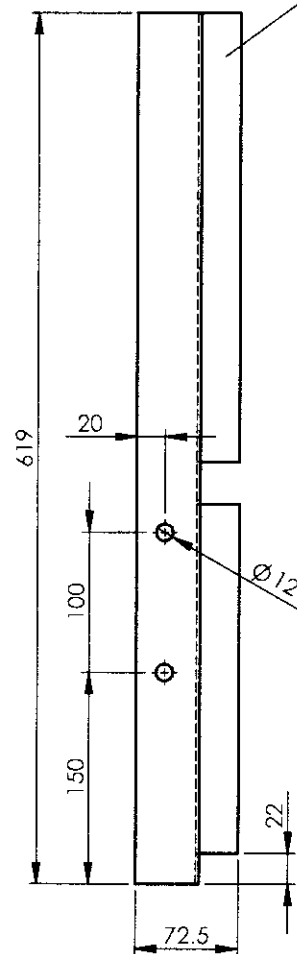
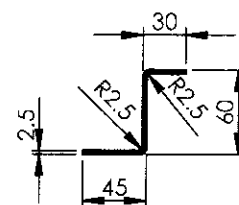
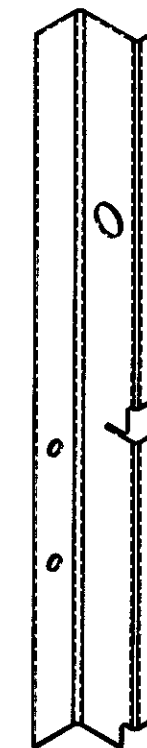
07-09-2020	24-12-2009	<i>M.K.</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

I	PART PILLAR	2.5X125X619	1		RDSO/SPEC C- K201 X2CrNi12	1.515	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: SIDE WALL ASSY			SURFACE AREA IN Sq.m.: 0.156		WT/ASSY IN Kgs:		
PART PILLAR					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	T.UKKIRAPANDIAN
					c	DRN	G.VIMALA
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14389		A3

AAA14390

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL SPEC REVISED.	sd/-
b		Ø12 HOLES ADDED	sd/-
c		Ø25mm HOLE ADDED	N.K. 7

DETAIL A  
SCALE 1:1

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: 813:19:16.  
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

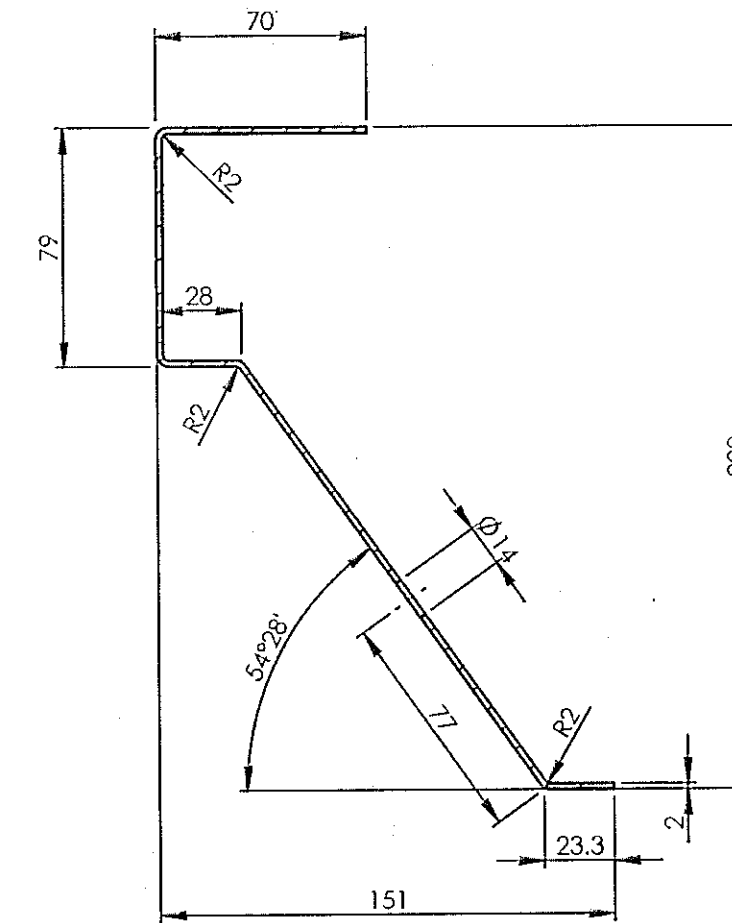
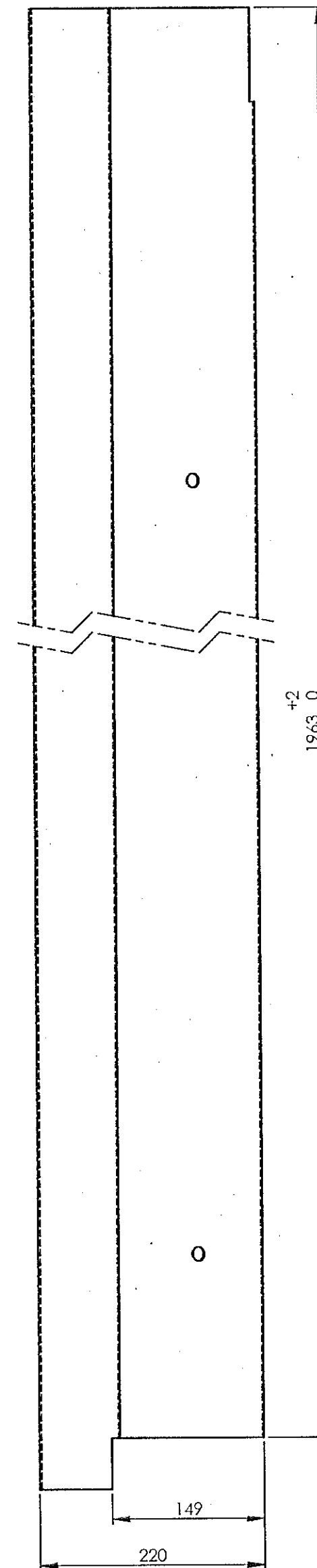
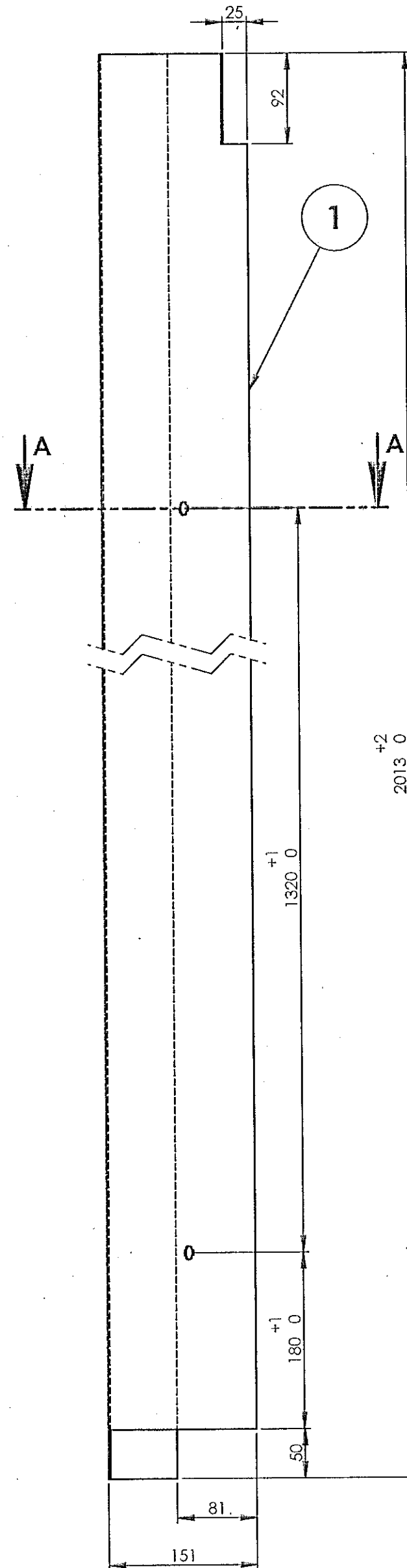
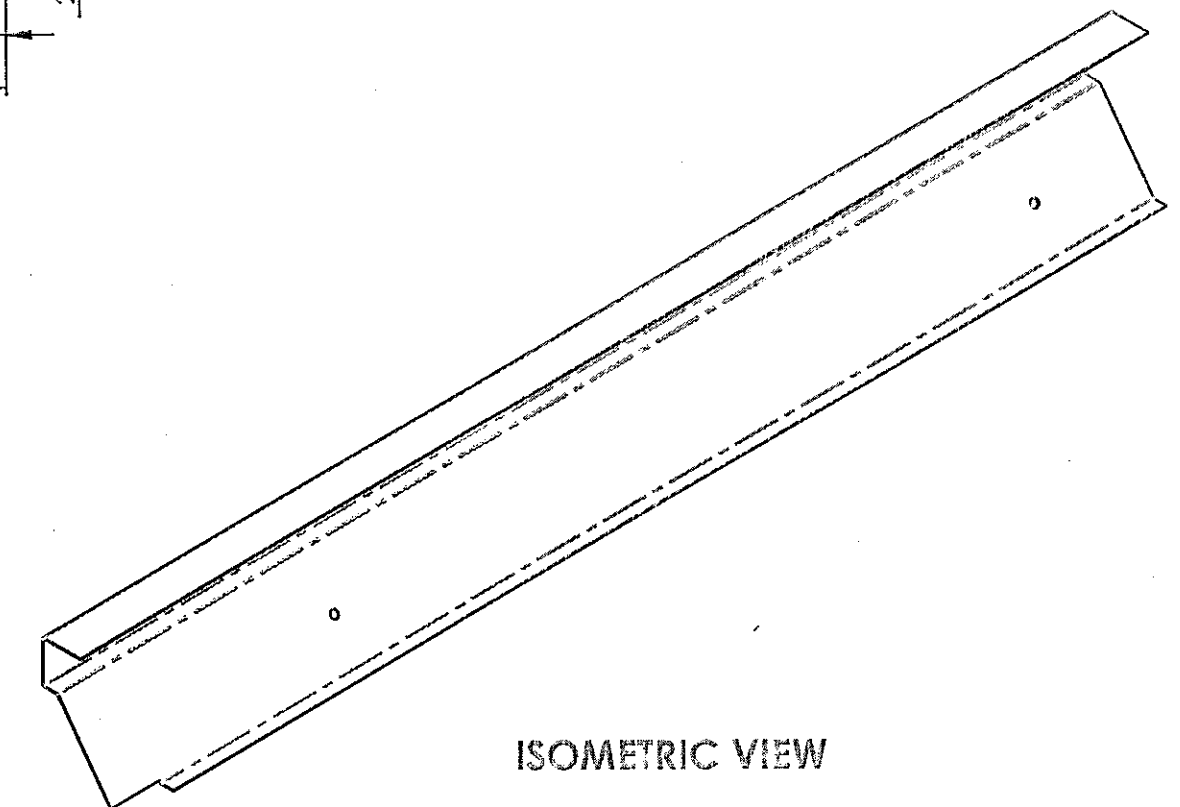
07-09-2020	24-12-2009	N.K. 7
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	PART PILLAR	2.5x125x619	1		RDSO/SPEC C-K201 X2CrNi12	1.515	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: SIDEWALL ASSY				SURFACE AREA IN Sq.m.: 156882.43808 WT/ASSY IN Kgs:			
PART PILLAR					SCALE 1:5	SSE/D CHD	N.K. 7
					ALT. c	ALT.D DRN	T.UKKIRAPANDIAN
							G.VIMALA
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAA14390	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

AAA14392

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL THICKNESS ALTD FROM 2 TO 3mm	-sd-
b		MATL THICKNESS ALTD FROM 3 TO 2mm	-sd-
c		CUT-OUT OF SIZE 35 x 150 DELETED.	<i>[Signature]</i>


SECTION A-A  
SCALE 1 : 2.5

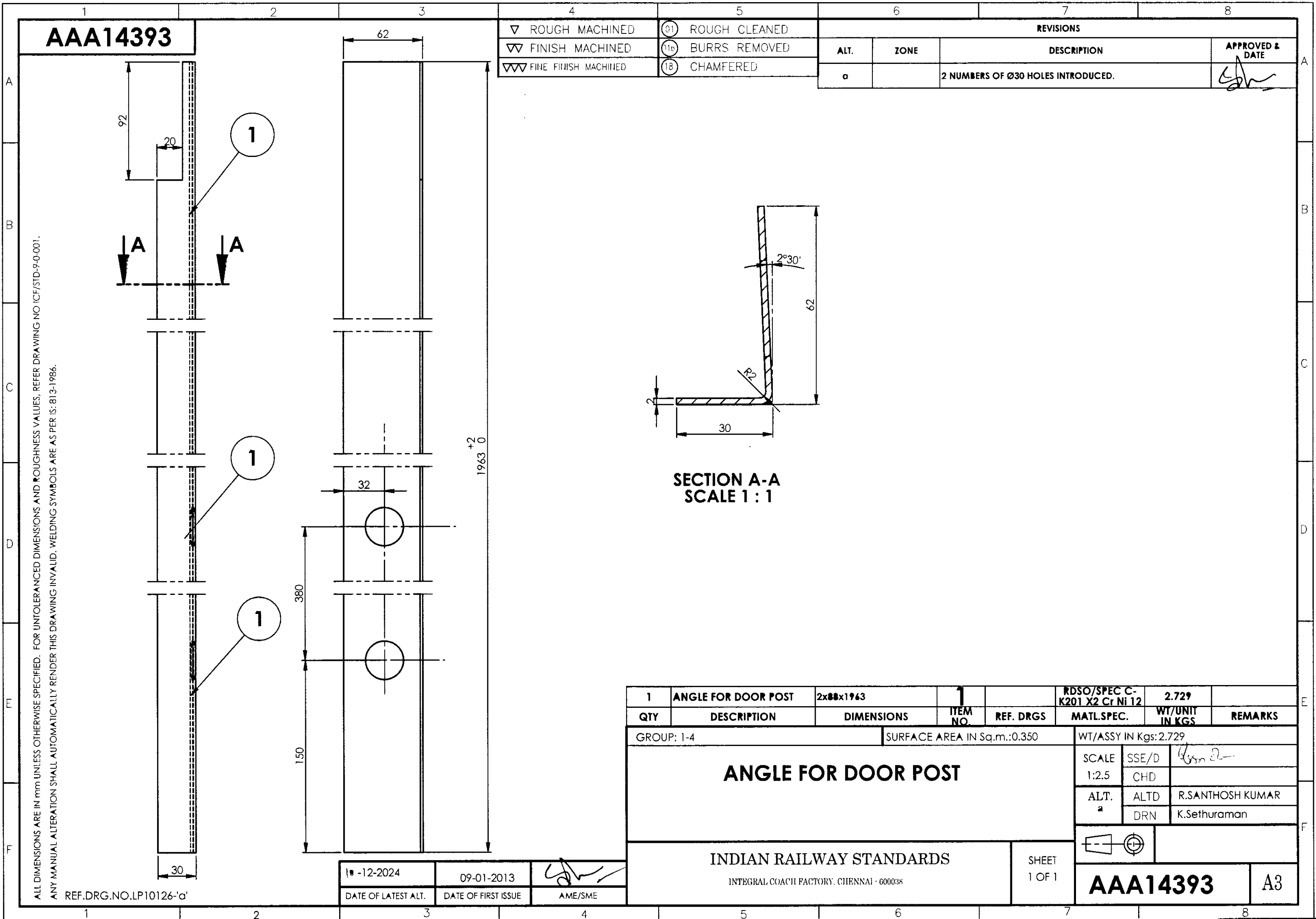
ISOMETRIC VIEW

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.LP10116-g'

23-01-2026	13-12-2012	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	DOOR POST RIGHT	2x365x2013	1		RDSO/SPEC C-K201 X2 Cr Ni 12	11.545	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4			SURFACE AREA IN Sq.m.: 1.453			WT/ASSY IN Kgs:	
DOOR POST RIGHT						SCALE 1:5	SSE/D <i>[Signature]</i>
						CHD	
						ALT c	ALTD T.Ukkirapandian
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038							
						AAA14392	A2



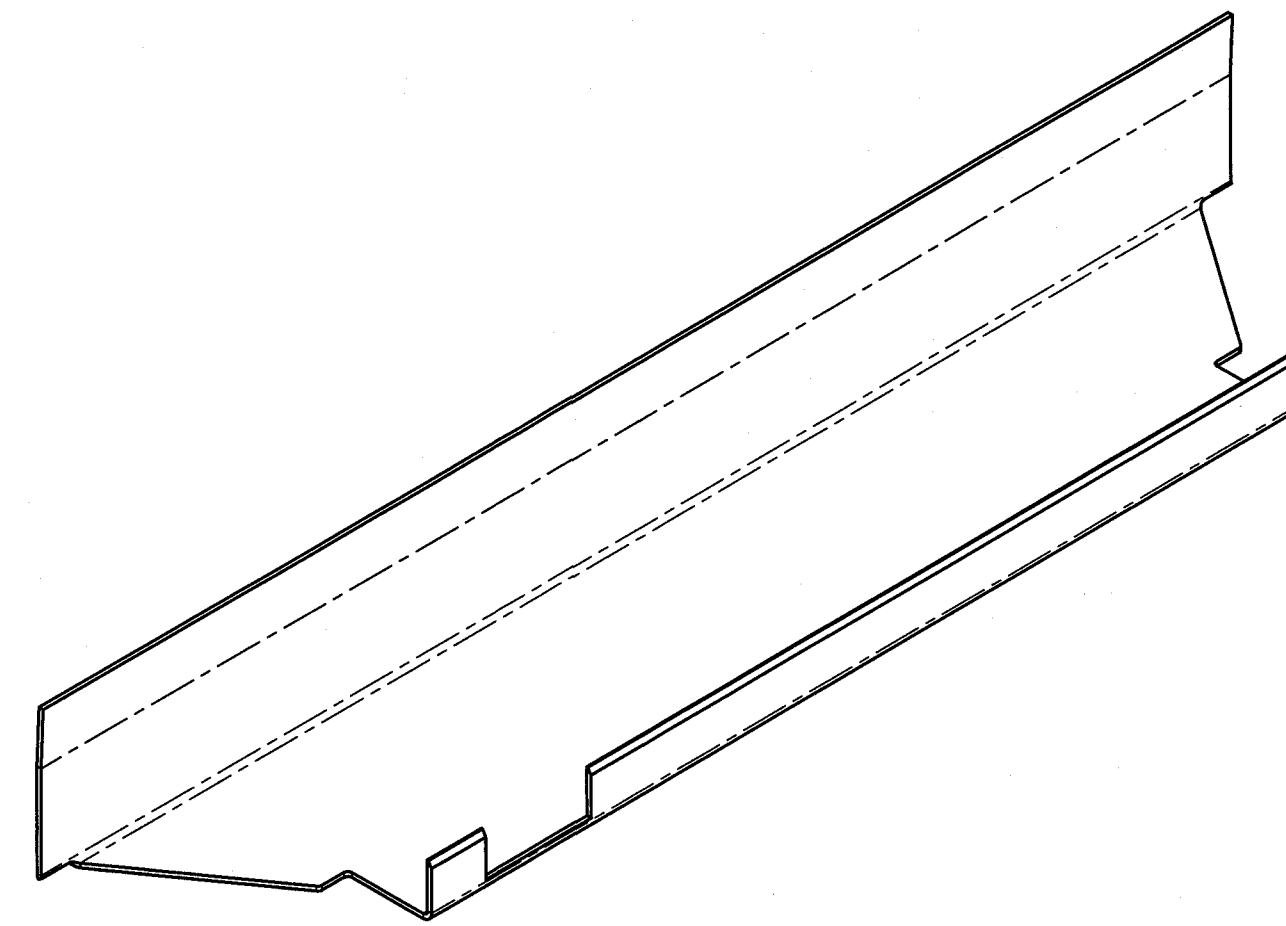
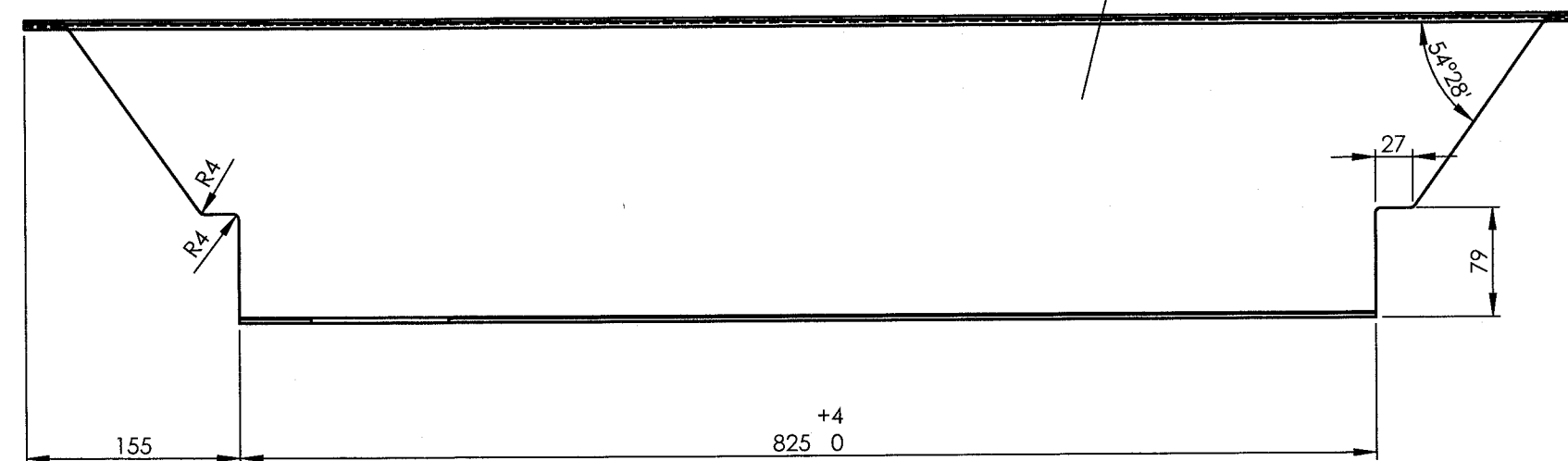
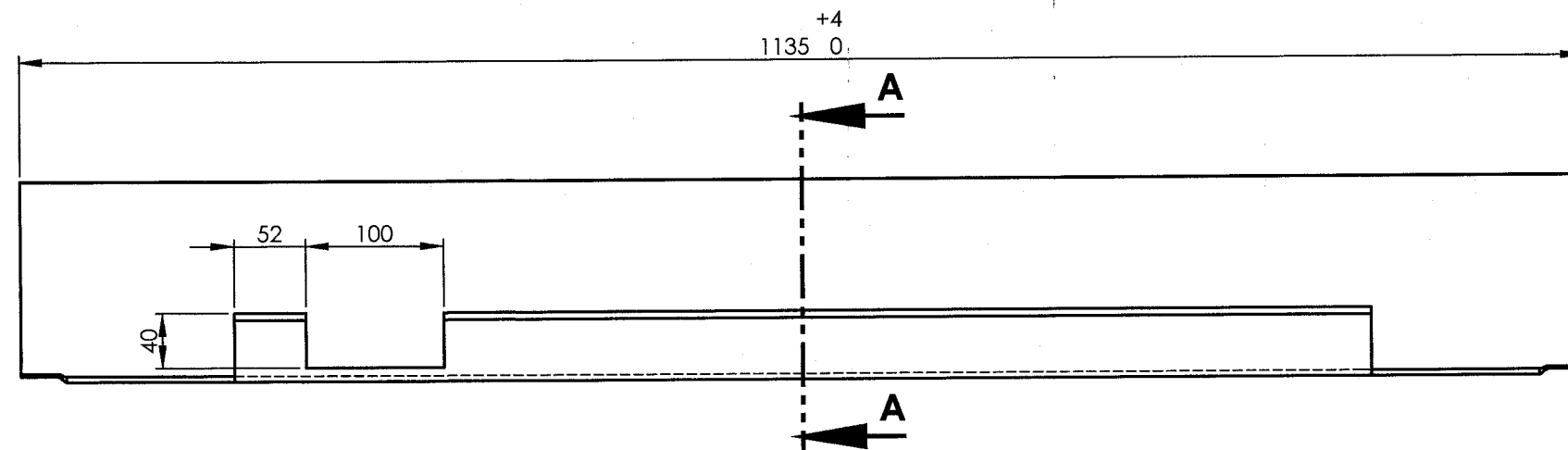
AAA14395

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

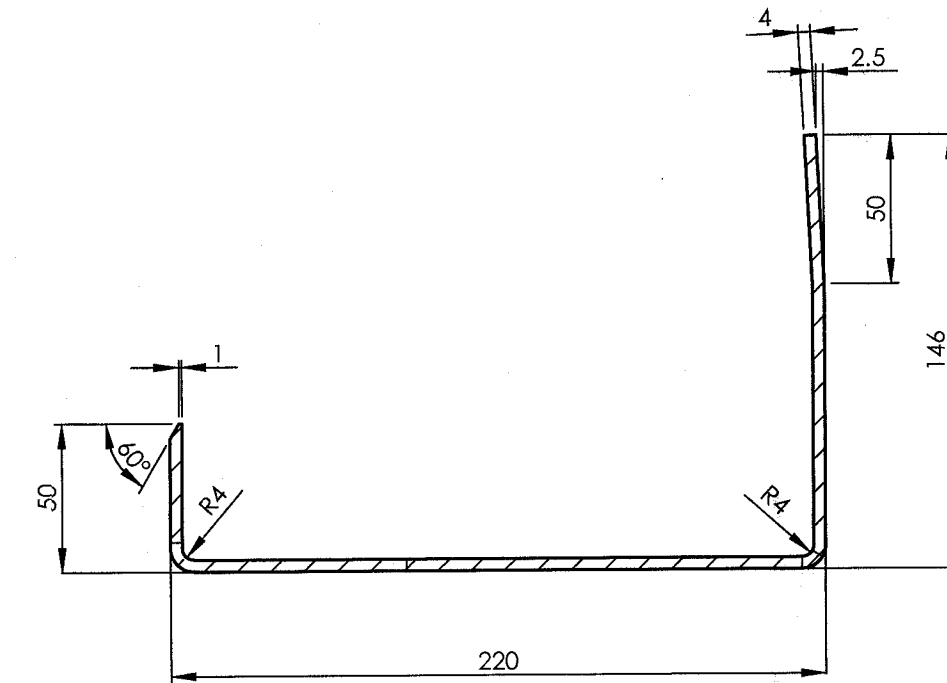
① ROUGH CLEANED  
①① BURRS REMOVED  
①① CHAMFERED


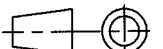
## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		Ø40 HOLE ADDED.	-sd-
b		40 x 90 CUTAWAY ADDED. Ø40 CUTAWAY DELETED. VIEWS UPDATED.	-sd-
c		CUTAWAY ALTD FROM 40x90 TO 40x100. VIEWS UPDATED.	



ISOMETRIC VIEW

SECTION A-A  
SCALE 1 : 2.5

1	UPPER FRAME PART	4x403x1135	1		RDSO/SPEC C-K201 X2CRN12	12.54						
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS					
GROUP: 14			SURFACE AREA IN Sq.m.: 0.80		WT/ASSY IN Kgs:							
UPPER FRAME PART					SCALE 1:5	SSE/D						
						CHD						
					ALT c	ALTD	T.UKKIRAPANDIAN					
						DRN	K.Sethuraman					
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							A2
										SHEET 1 OF 1		

02-02-2019	13-12-2012	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LP10120-'b'/ITEM-1

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



AAA14396

▽ ROUGH MACHINED

▽ FINISH MACHINED

▽▽ FINE FINISH MACHINED

① ROUGH CLEANED

①b BURRS REMOVED

①8 CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		Ø40 HOLE ADDED, NOTE-1 ADDED.	-Sd-
b		Ø40 CUTAWAY DELETED.	

1

67

225

10

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

NOTE:-  
\$ 1. ALTERNATIVELY MATL. SPEC. AISI:304 IS ACCEPTABLE.

QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS				
-	BACK PIECE	10x67x225	1		IS:6911-92 X04Cr12	1.206	\$				
GROUP: 1-0					SURFACE AREA IN Sq.m.:0.036		WT/ASSY IN Kgs:				
BACK PIECE					SCALE 1:1	SSE/D CHD	<i>P. Sango</i>				
					ALT. b	ALTD DRN		M.SIVAKUMAR K.Sethuraman			
					INDIAN RAILWAY STANDARDS					SHEET 1 OF 1	
					INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14396 A3	


03/8/1813/12/12

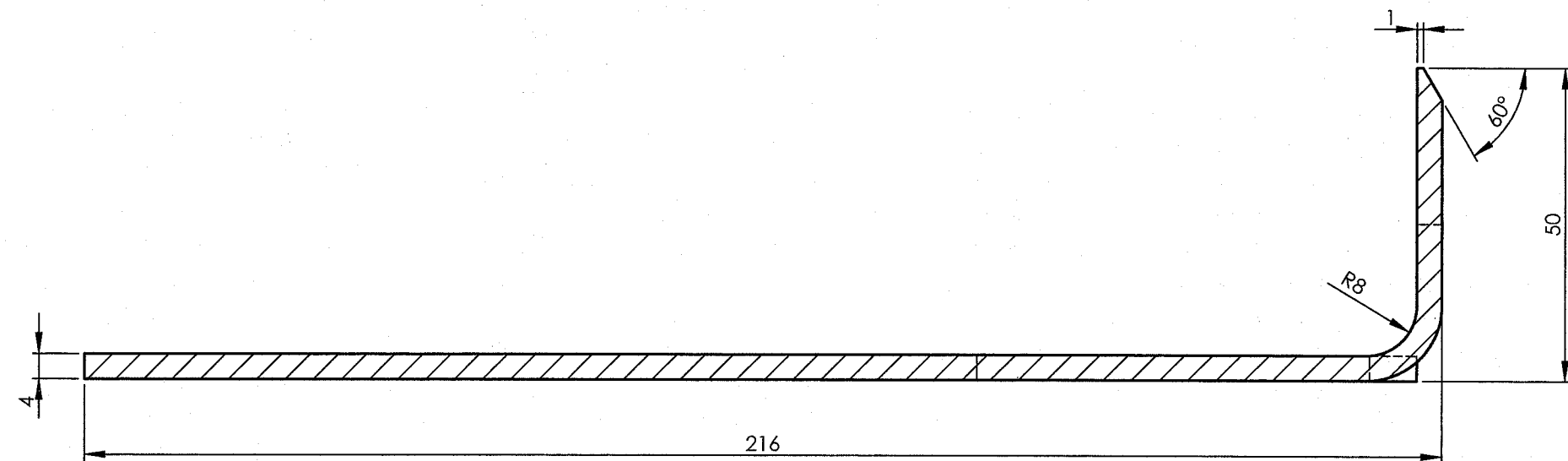
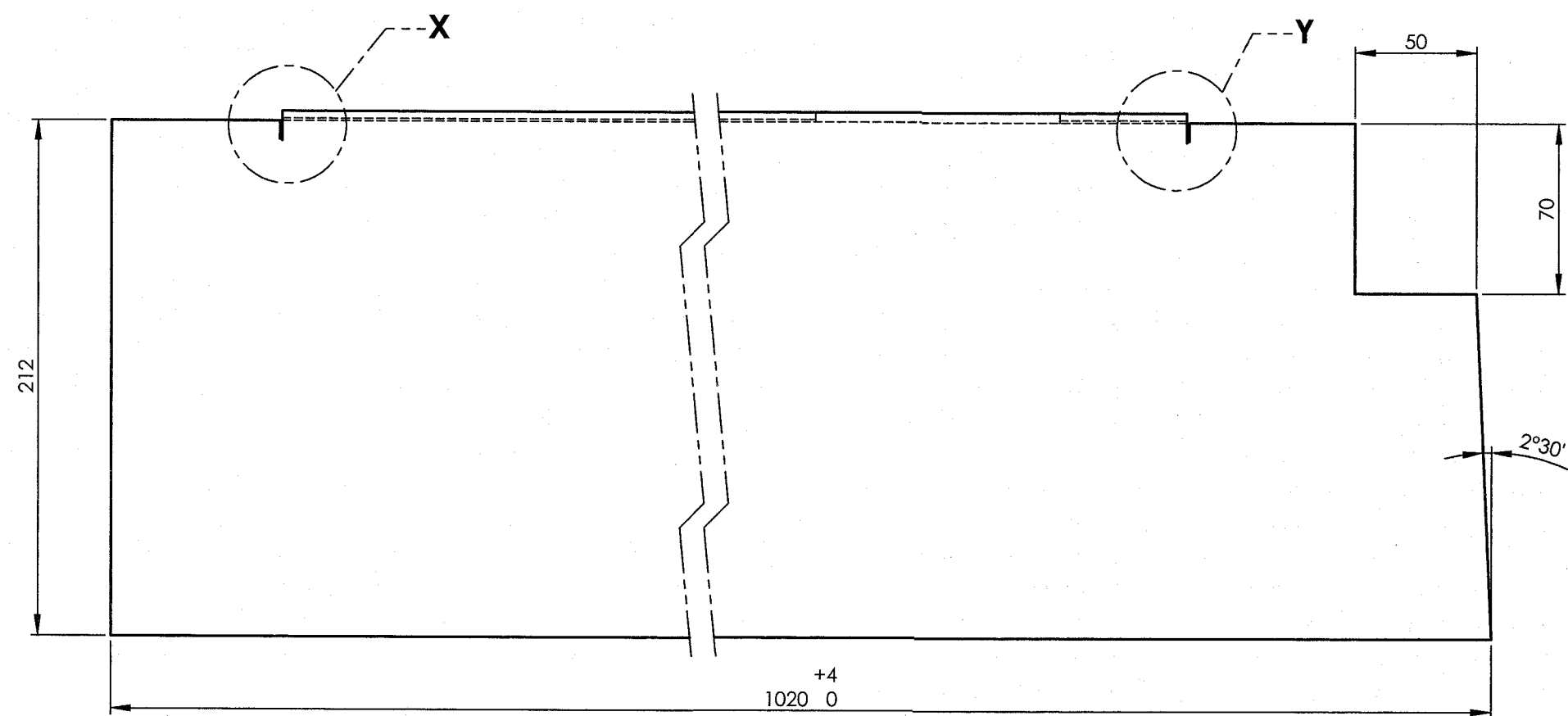
DATE OF LATEST ALT. DATE OF FIRST ISSUE

AME/SME

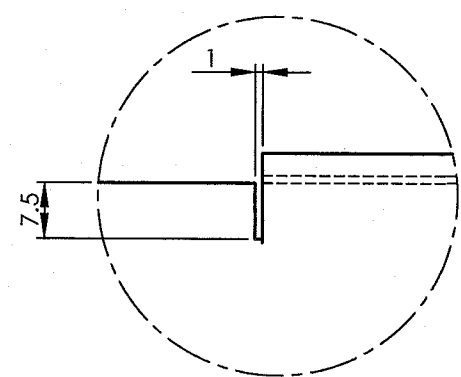
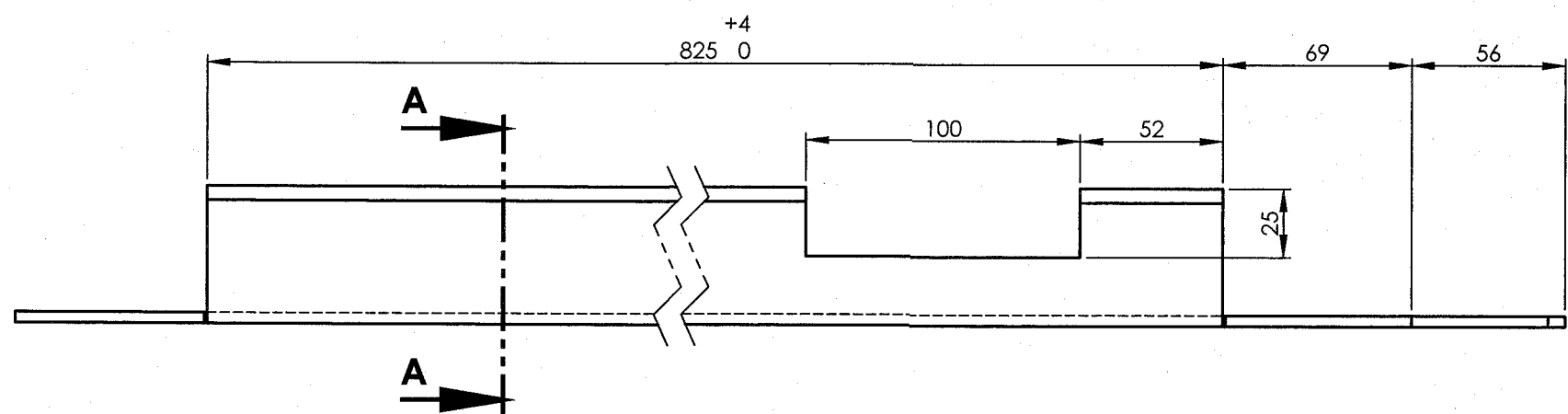
REF.DRG.NO.LP10120-'b'/ITEM-2

AAA14397

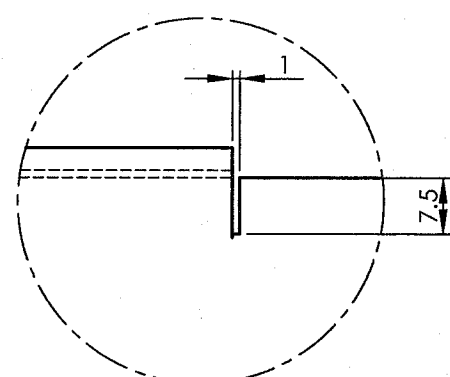
▽ ROUGH MACHINED	① ROUGH CLEANED	REVISIONS			
▽▽ FINISH MACHINED	①b BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED	a		25 x 100 mm CUTAWAY ADDED.	



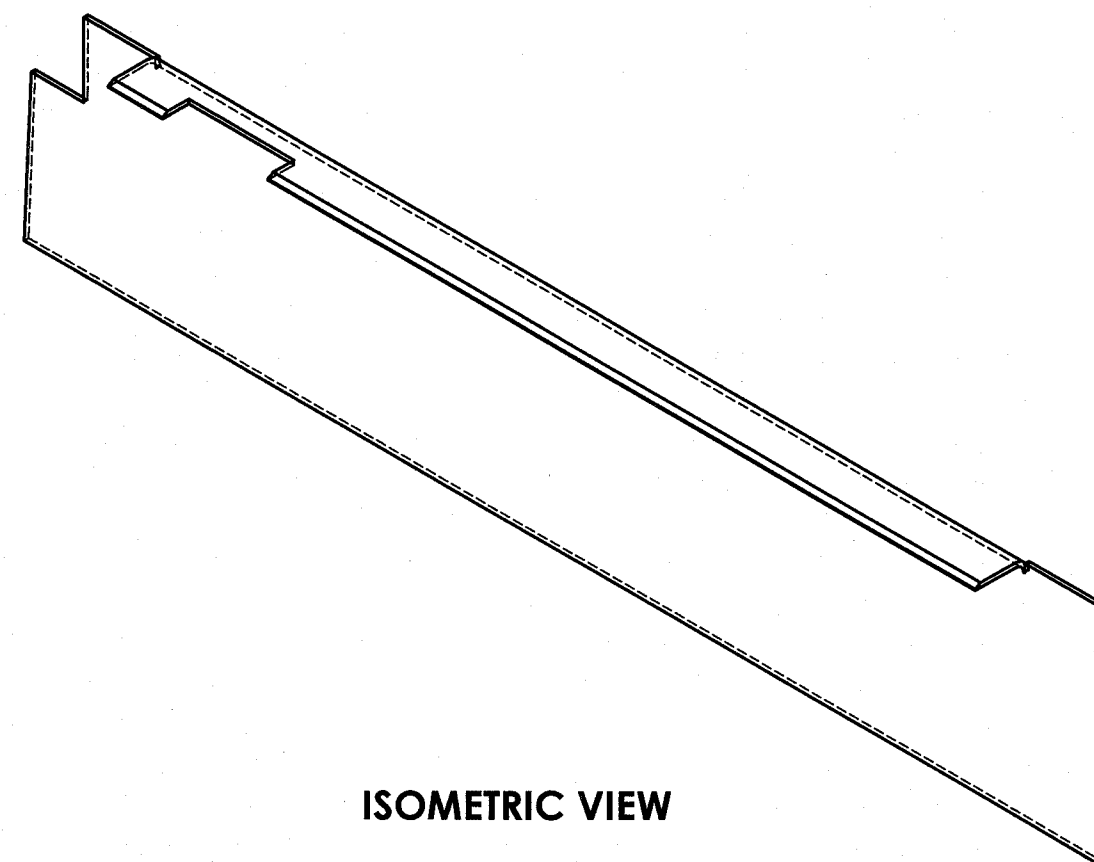
SECTION A-A  
SCALE 1 : 1



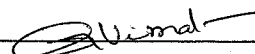
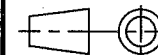
DETAIL X  
SCALE 1 : 1



DETAIL Y  
SCALE 1 : 1



ISOMETRIC VIEW

1	UPPER FRAME PART	4X258X1020	1		RDSO/SPEC C-K201 X2CrNi12	7.861		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 14		SURFACE AREA IN Sq.m.: 0.508			WT/ASSY IN Kgs:7.940			
UPPER FRAME PART					SCALE 1:2.5	SSE/D		
						CHD		
					ALT a	ALTD	T.UKKIRAPANDIAN	
						DRN	K.Sethuraman	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
						AAA14397 A2		

02-02-2019	09-01-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.LP10121-'a'

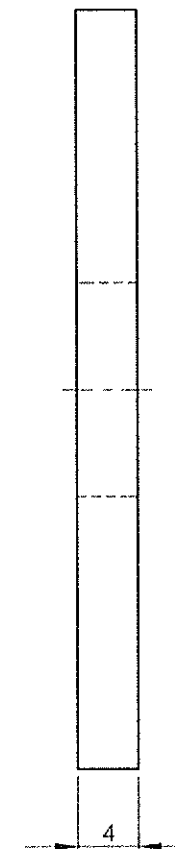
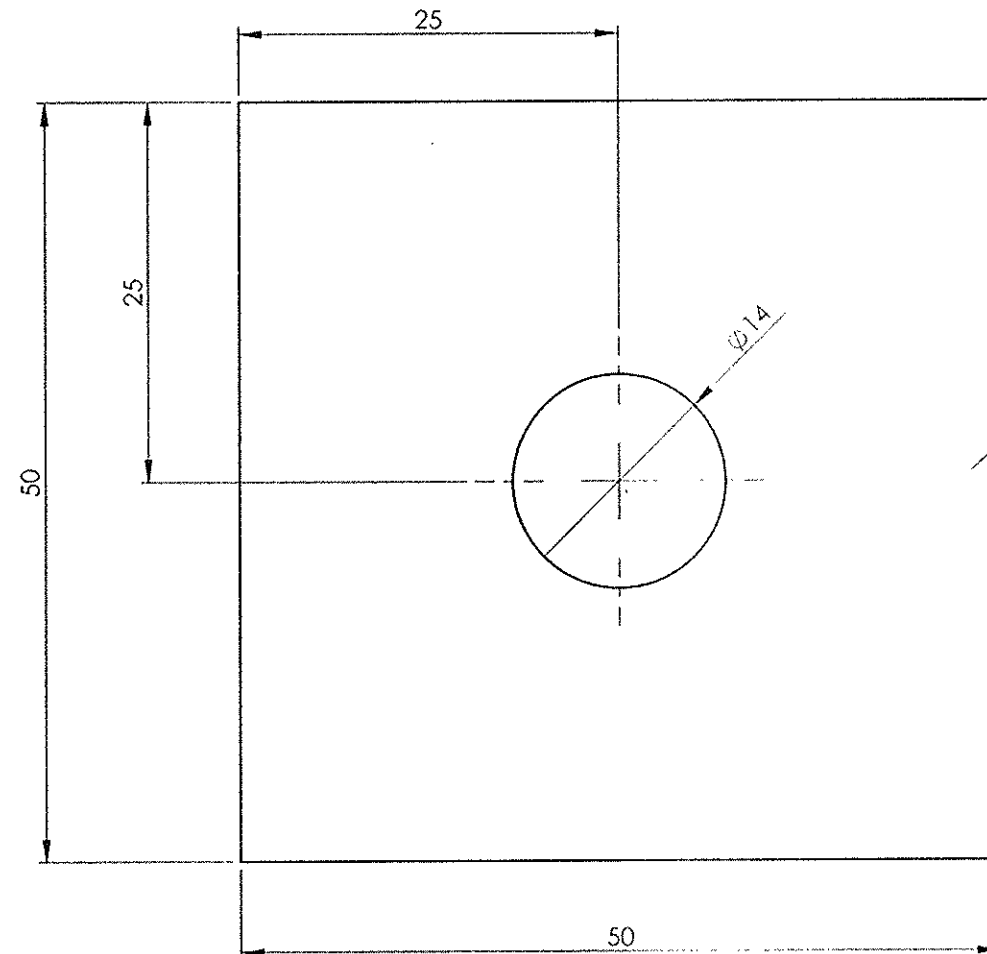
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986.

AAA14398

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

## REVISIONS

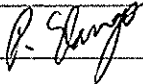
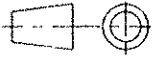
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID.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

REF.DRG.NO.LE10120

DATE OF LATEST ALT.	01/12/2013	AME/SME
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-	BACK PIECE	4X50X50	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.075	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.006			WT/ASSY IN Kgs:0.075		
BACK PIECE					SCALE	SSE/D	
					2:1	CHD	
					ALT.	ALTD	
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	AAA14398	
						A3	

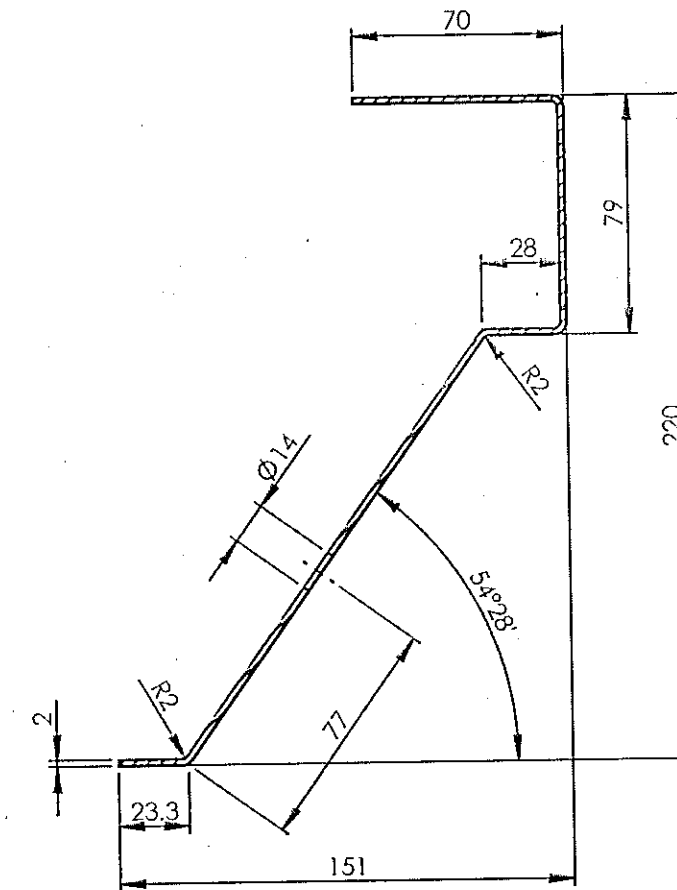
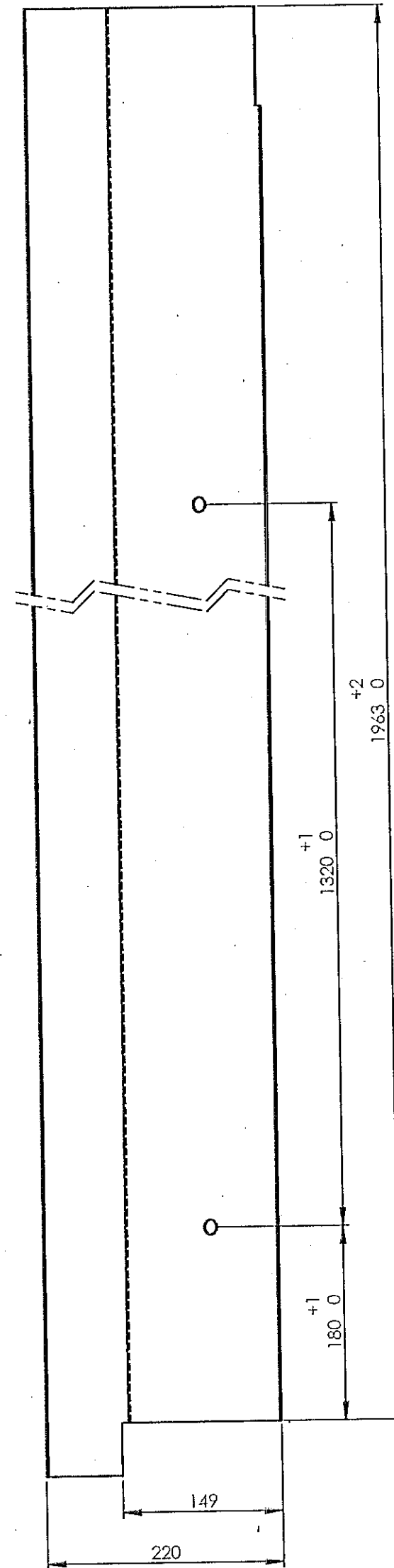
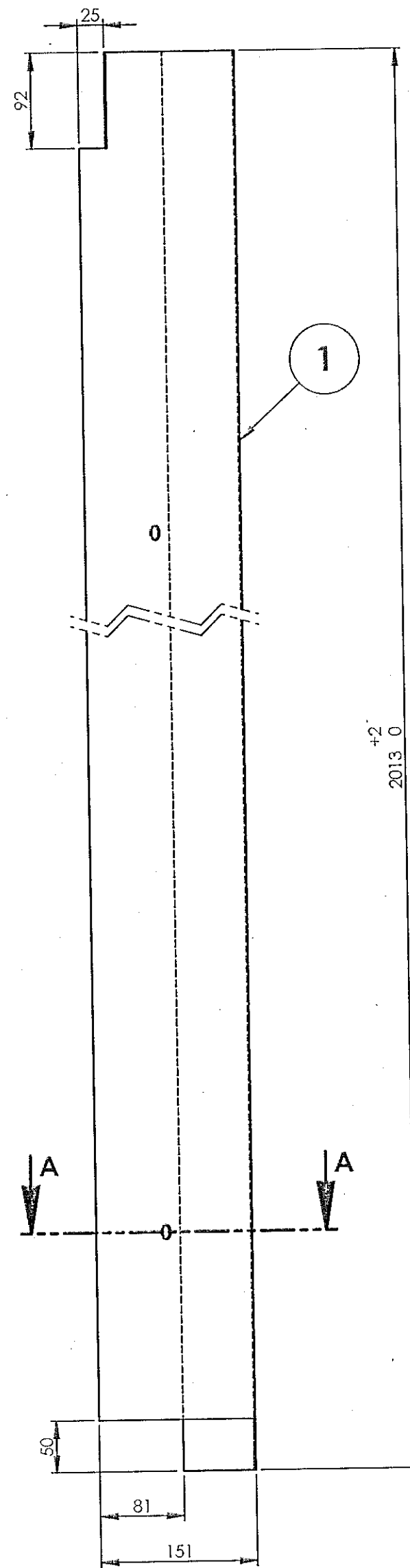
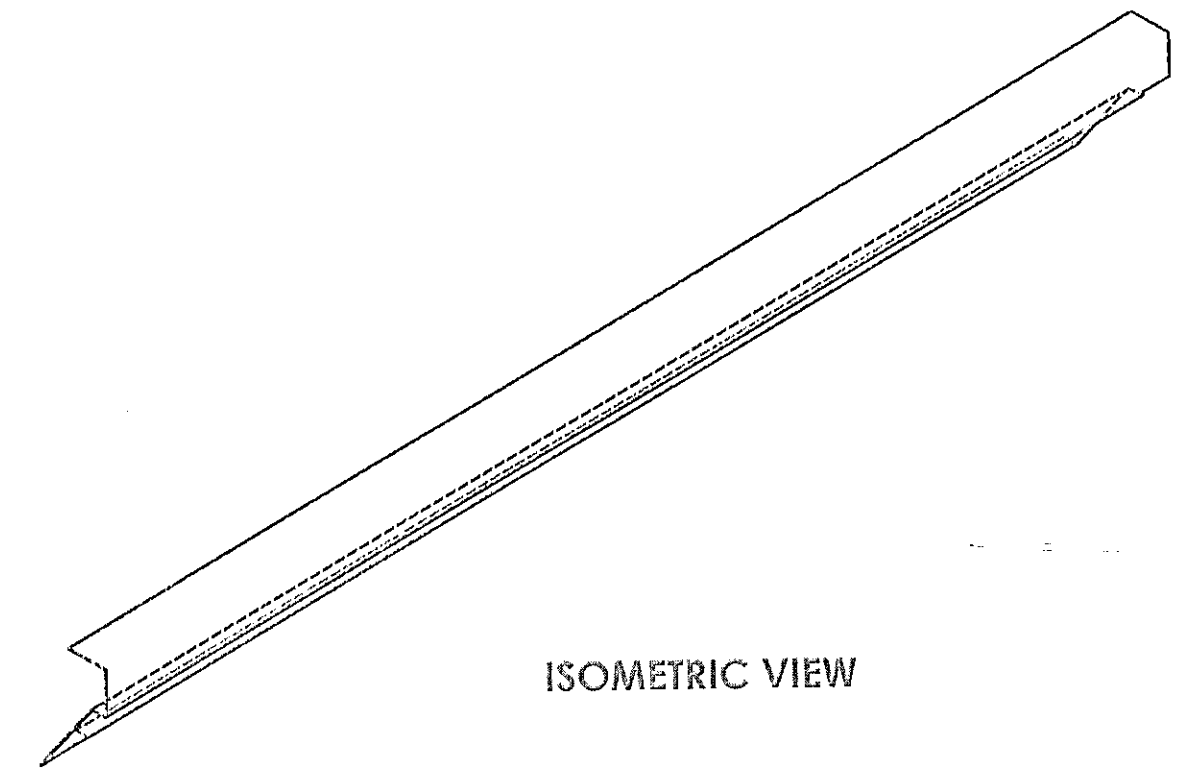
AAA14399

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

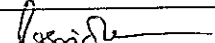
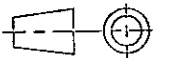
① ROUGH CLEANED  
①⑩ BURRS REMOVED  
①⑧ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		MATL THICKNESS ALTD FROM 2 TO 3mm.	-sd-
b		MATL THICKNESS ALTD FROM 3 TO 2mm	-sd-
c		CUT-OUT OF SIZE 35 x 150 DELETED.	

SECTION A-A  
SCALE 1 : 2.5

ISOMETRIC VIEW

I	DOOR POST LEFT	2x365x2013	7		RDSO/SPEC CK-201 X2 Cr Ni 12	11.545	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4			SURFACE AREA IN Sq.m.: 1.453			WT/ASSY IN Kgs:	
DOOR POST LEFT					SCALE 1:5	SSE/D	
						CHD	
					ALT c	ALTD	T Ukkirapandian
						DRN	K.Sethuraman
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1	AAA14399	A2


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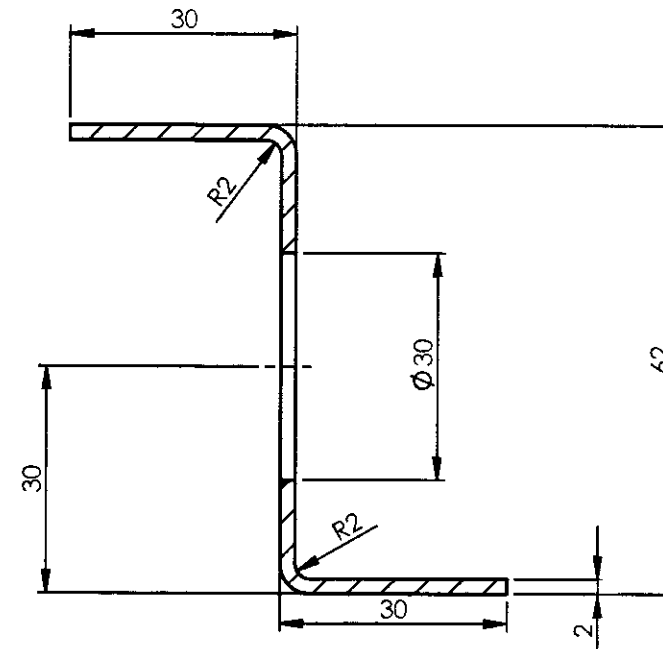
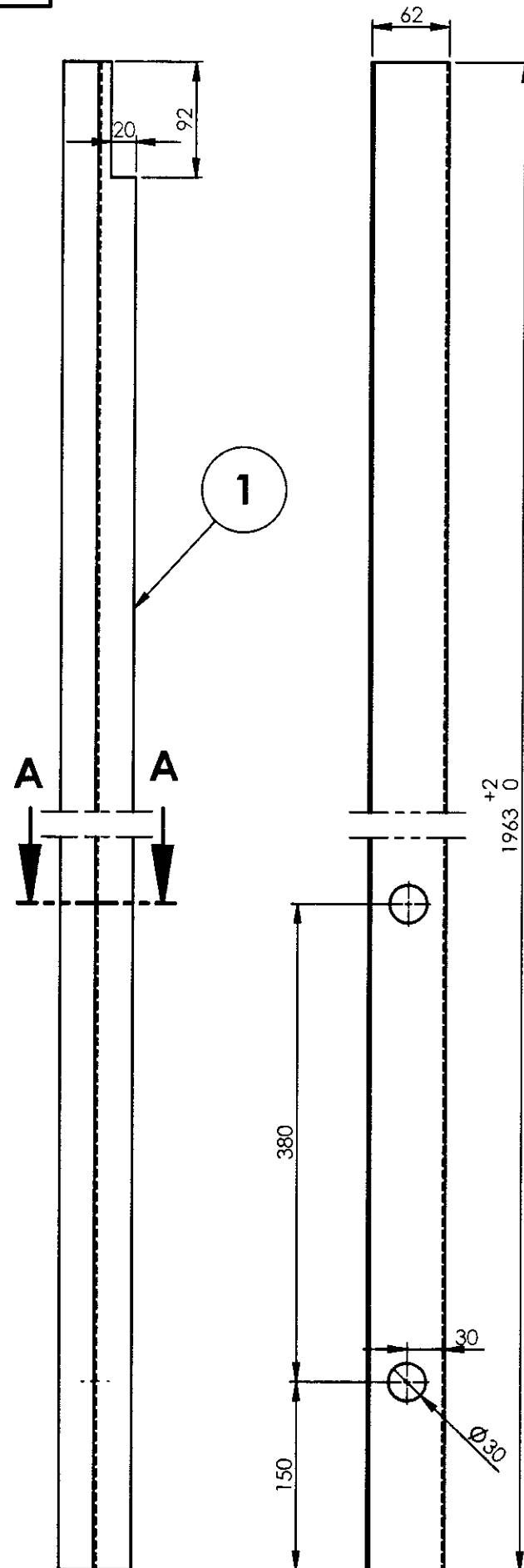
REF.DRG.NO.LP10114-g

23-01-2024	13-12-2012	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

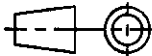
AAA14400

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		2 NOS OF Ø30 HOLES INTRODUCED. SECTION A-A REVISED.	



SECTION A-A  
SCALE 1 : 1

1	DOOR PILLAR FLANGE	2x115x1963	1		RDSO/SPEC C- K201 X2 Cr Ni 12	3.573	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-0		SURFACE AREA IN Sq.m.:0.455			WT/ASSY IN Kgs:3.573		
DOOR PILLER FLANGE					SCALE	SSE/D	1:5
						CHD	
					ALT.	ALTD	R.SANTHOSH KUMAR
					a	DRN	G.M.Lakshminarayana
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			A3
INTEGRAL COACH FACTORY, CHENNAI - 600038							
					AAA14400		


13-12-2024	09-01-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

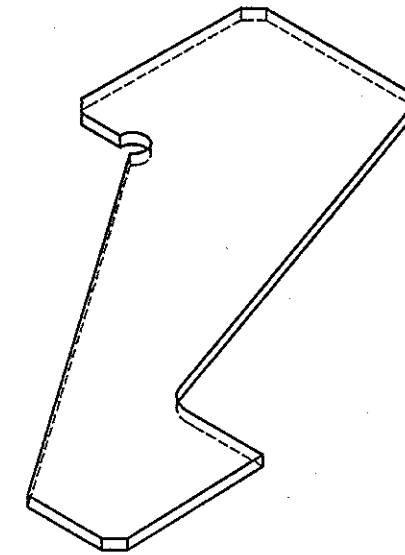
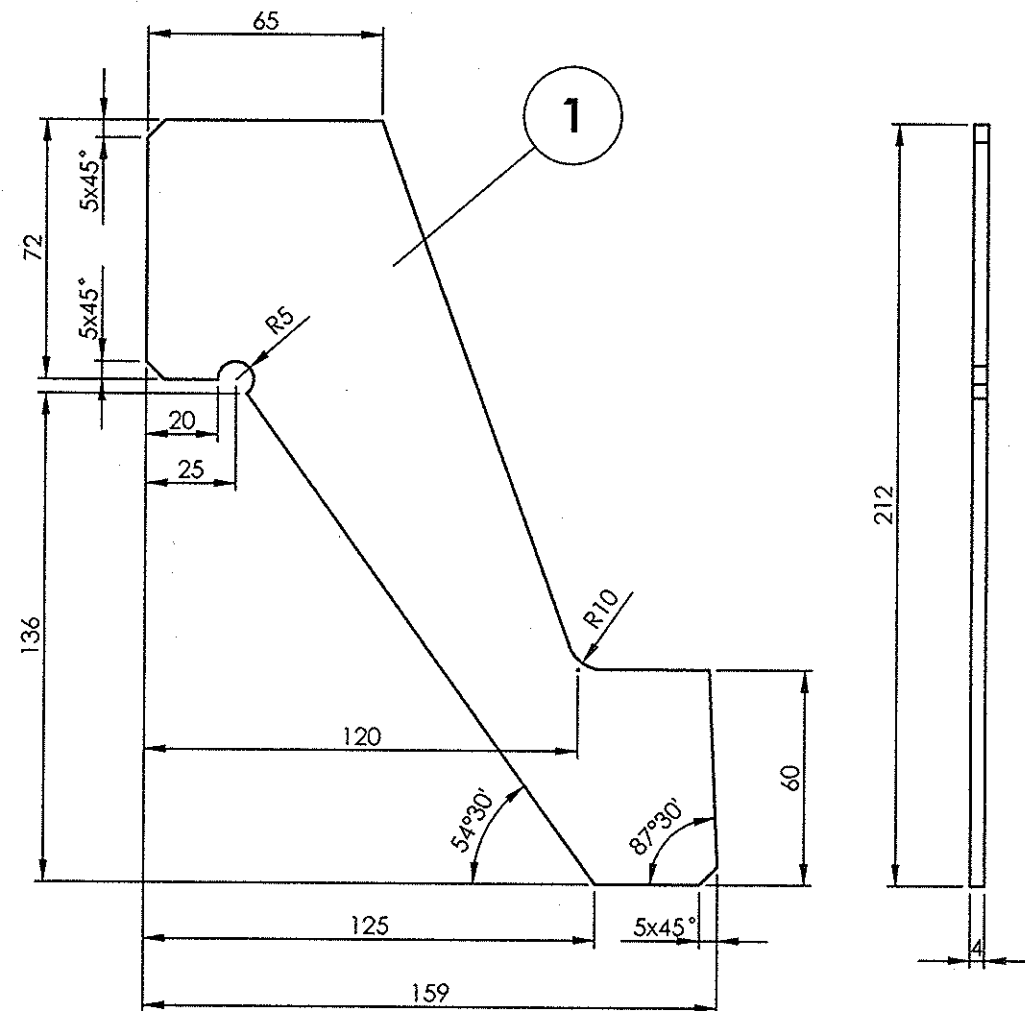
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.LP10130

AAA14401

▽ ROUGH MACHINED	③1 ROUGH CLEANED
▽▽ FINISH MACHINED	③1b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③18 CHAMFERED


REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN OF ITEM-1 REVISED.	



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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WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.p10132

10/02/18	13-12-2012	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	WEB	4x159x212	1		RDSO/SPEC C-K201 X2CrNi12	0.41	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:28393.58			WT/ASSY IN Kgs:		
WEB					SCALE	SSE/D	A. cy
					1:2	CHD	
					ALT. a	ALTD	Aswin R
						DRN	V.S.SRIDHARAN
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14401		
					A3		

AAA14402

▽

ROUGH MACHINED

▽▽

FINISH MACHINED

▽▽▽

FINE FINISH MACHINED

01

ROUGH CLEANED

01b

BURRS REMOVED

18

CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE ADDED	

160

65

5

1

NOTE:

1. ALTERNATIVELY MATERIAL AISI 304 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5 Cr Ni 18 10

1

SUPPORT

5x65x160

1

QTY.

DESCRIPTION

DIMENSIONS

ITEM NO.

REF. DRGS

MATL.SPEC.

WT/UNIT IN KGS

REMARKS

GROUP: 1-4

SURFACE AREA IN Sq.m.:0.023

WT/ASSY IN Kgs:

SUPPORT

SCALE 1:1

SSE/D CHD

ALT. a

ALTD DRN

T.Ukkirapandian

K.SETHURAMAN

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

AAA14402

A3

REF.DRG.NO.

22-05-2023

13-12-2012

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

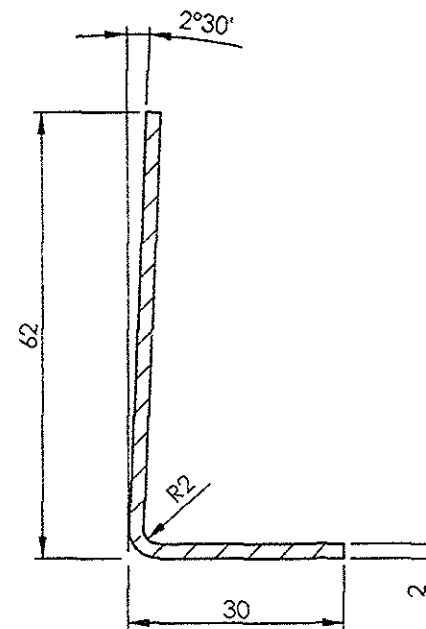
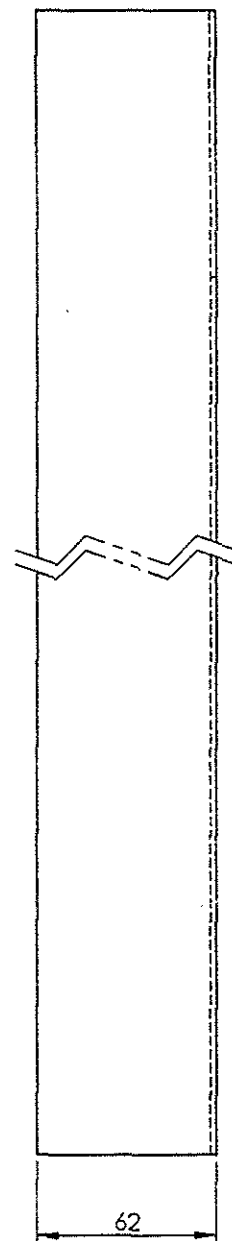
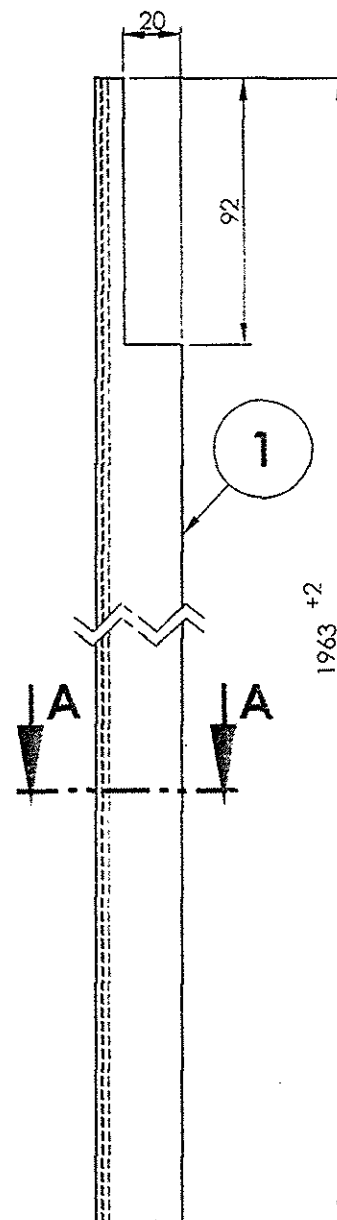
AME/SME

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

AAA14403

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

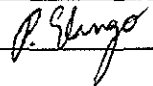

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

SECTION A-A  
SCALE 1:1

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. IGT/STD. 9.0.001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.LP10127-c'


	9/1/2013	10/01/15
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

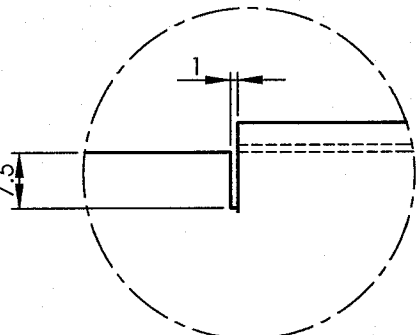
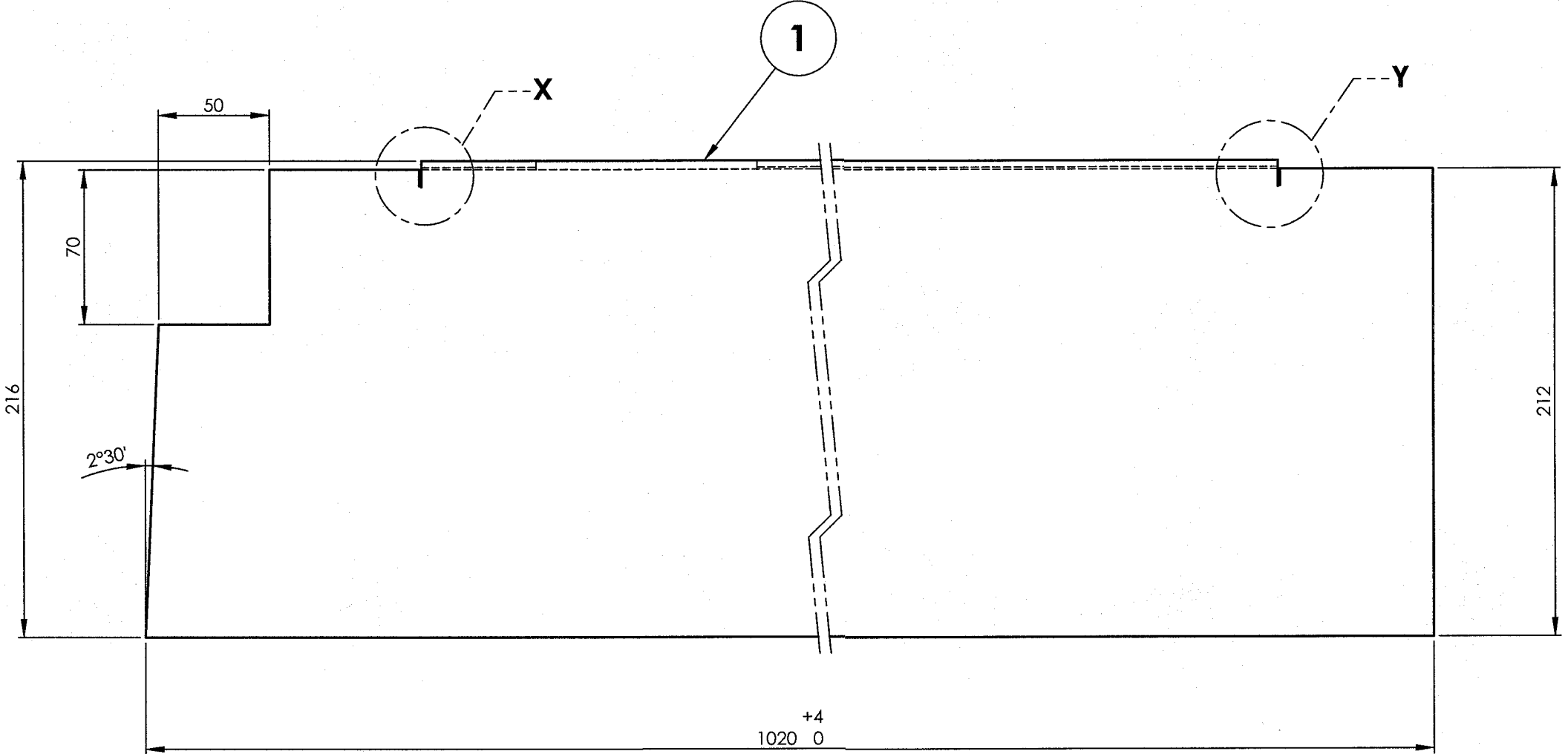
1	ANGLE FOR DOOR POST	2x88x1963	1		RDSO/SPEC C- K201 X2 Cr Ni 12	2.752	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.352			WT/ASSY IN Kgs:2.752		
ANGLE FOR DOOR POST					SCALE	SSE/D	
					1:2.5	CHD	
					ALT.	ALTD	
						DRN	G.M.Lakshminarayana
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14403		A3



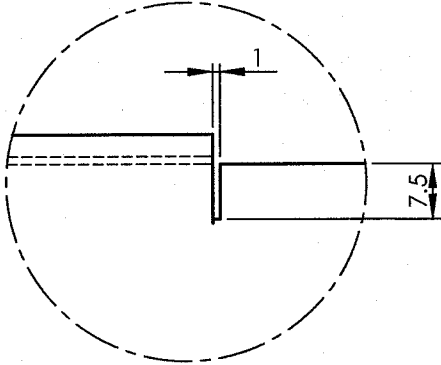
AAA14404

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

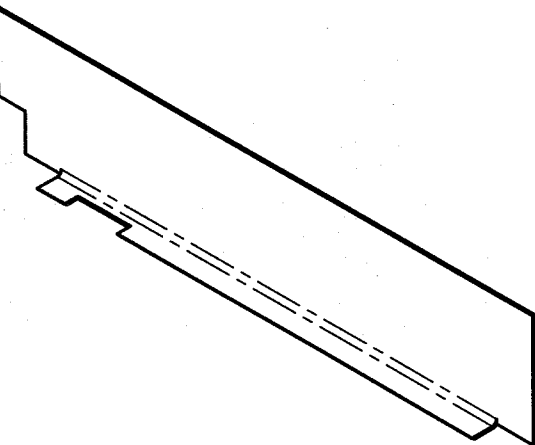
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		25 x 100 MM CUTAWAY ADDED.	



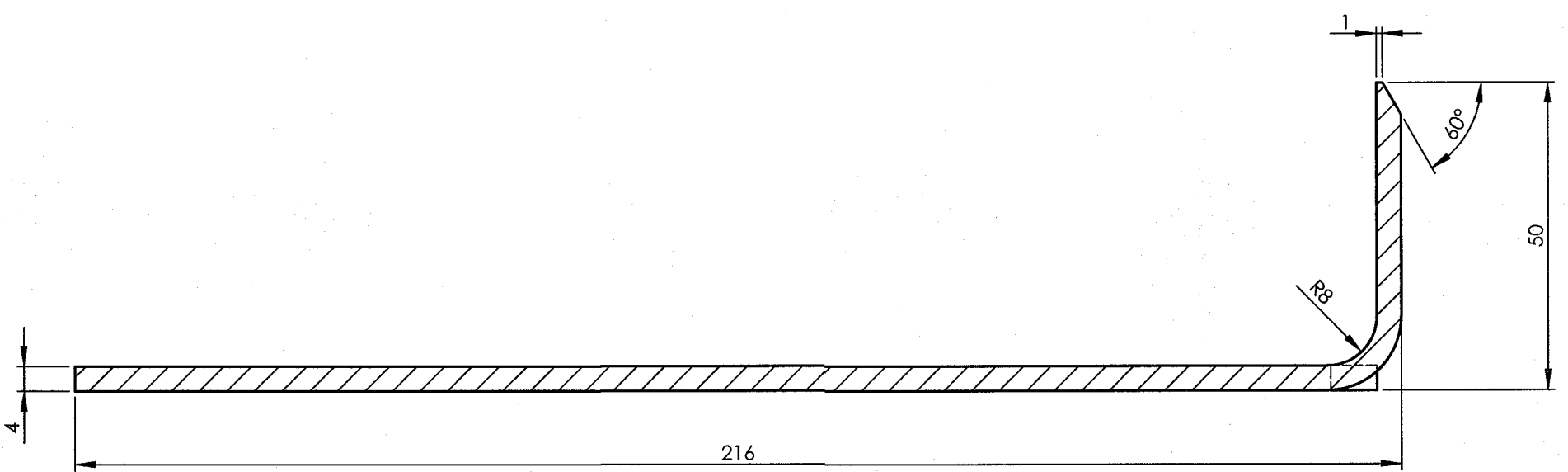
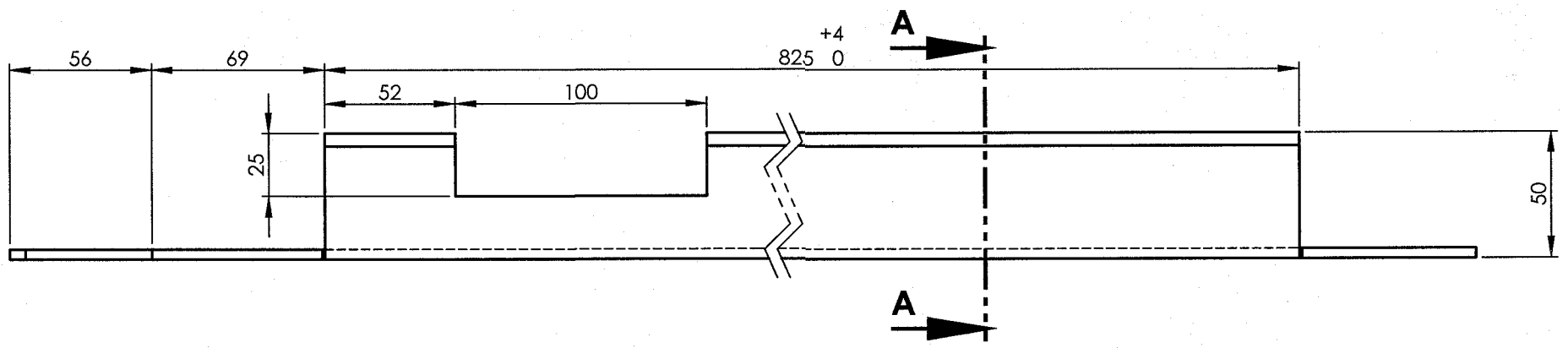
DETAIL X  
SCALE 1 : 1



DETAIL Y  
SCALE 1 : 1



ISOMETRIC VIEW

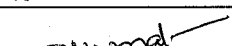
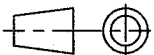


SECTION A-A  
SCALE 1 : 1







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REF.DRG.NO.LP10122-'a'

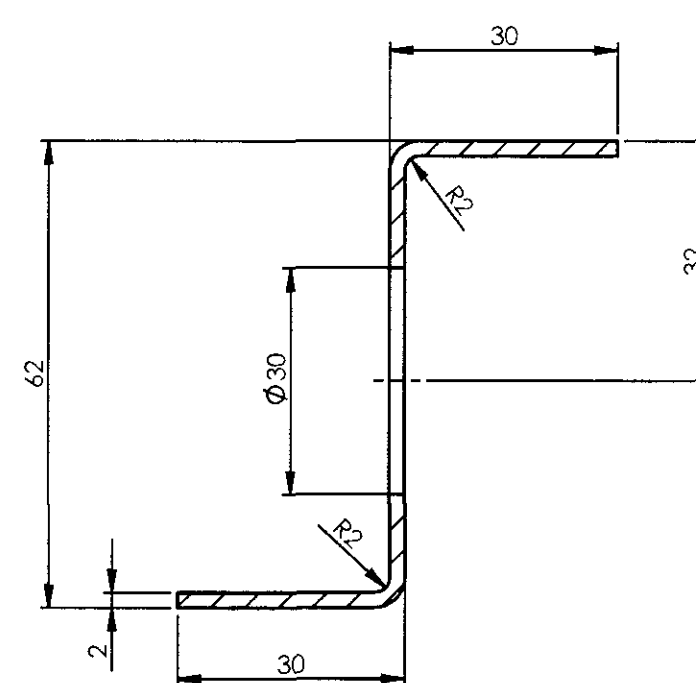
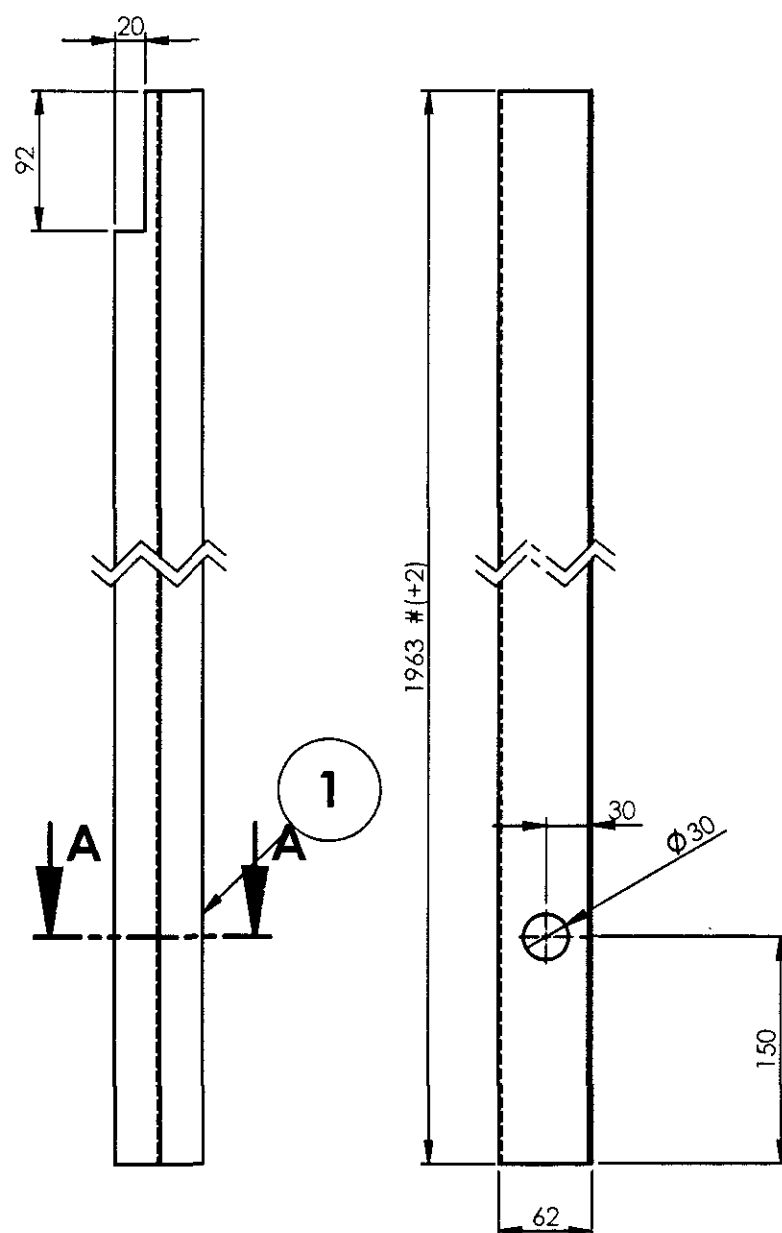
02-02-2019	13-12-2012	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	UPPER FRAME PART	4x258x1020	1		RDSO/SPEC C-K201 X2CrNi12	7.860		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 14			SURFACE AREA IN Sq.m.: 0.503			WT/ASSY IN Kgs:7.940		
UPPER FRAME PART						SCALE 1:2.5	SSE/D	
							CHD	
							ALT <sup>a</sup>	ALTD
						DRN	G.M.Lakshminarayana	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1				
						AAA14404		A2

**AAA14405**

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		ONE Ø30 HOLE INTRODUCED. SECTION A-A UPDATED.	




**SECTION A-A**  
**SCALE 1 : 1**



### ISOMETRIC VIEW

## # MANDATORY MANUFACTURING ALLOWANCE

1	DOOR PILLAR FLANGE	2x115x1963	1		RDSO/SPEC. C-K201 X2 Cr Ni 12	3.581	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.456			WT/ASSY IN Kgs:3.581		
DOOR PILLAR FLANGE					SCALE	SSE/D	1:5
						CHD	
					ALT.	ALTD	R.SANTHOSH KUMAR
						DRN	G.M.Lakshminarayana
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			A3
INTEGRAL COACH FACTORY, CHENNAI - 600038							
					AAA14405		

1		2		3		4		5		6		7		8	
AAA14750				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED		a				RM SIZE UPDATED.			
<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 IS: 813-1986.</div> <div></div>															
12 -02-2025		28-03-2013				INDIAN RAILWAY STANDARDS									
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME		INTEGRAL COACH FACTORY, CHENNAI - 600038									
						SHEET 1 OF 1									
						AAA14750									
						A3									
1		2		3		4		5		6		7		8	

1		2		3		4		5		6		7		8																																																							
AAA14796				▽ ROUGH MACHINED		⑩1 ROUGH CLEANED		REVISIONS																																																													
				▽▽ FINISH MACHINED		⑩1b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																							
				▽▽▽ FINE FINISH MACHINED		⑩18 CHAMFERED		a				NOTE ADDED.																																																									
<div><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><div><div><div><div>350</div></div><div>60</div></div><div>5</div></div><div>1</div></div></div><div><div>NOTE:</div><div>1. ALTERNATIVELY MATERIAL AISI 304 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5 Cr Ni 18 10</div></div></div>																																																																					
<table><tr><td>1</td><td>FLAT FOR DOOR</td><td>5x60x350</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X5 Cr Ni 18 10</td><td>0.840</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: 1-4</td><td colspan="2">SURFACE AREA IN Sq.m.:0.046</td><td colspan="2">WT/ASSY IN Kgs:</td></tr><tr><td colspan="5" rowspan="3">FLAT FOR DOOR</td><td>SCALE 1:2.5</td><td>SSE/D CHD</td><td></td></tr><tr><td>ALT. a</td><td>ALTD DRN</td><td>T.Ukkirapandian</td></tr><tr><td colspan="2"></td><td>G.VIMALA</td></tr><tr><td colspan="5">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2">AAA14796</td><td>A3</td></tr></table>																1	FLAT FOR DOOR	5x60x350	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	0.840		QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-4				SURFACE AREA IN Sq.m.:0.046		WT/ASSY IN Kgs:		FLAT FOR DOOR					SCALE 1:2.5	SSE/D CHD		ALT. a	ALTD DRN	T.Ukkirapandian			G.VIMALA	INDIAN RAILWAY STANDARDS					SHEET 1 OF 1			INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14796		A3
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FLAT FOR DOOR					SCALE 1:2.5	SSE/D CHD																																																															
					ALT. a	ALTD DRN	T.Ukkirapandian																																																														
							G.VIMALA																																																														
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INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14796		A3																																																														
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22-05-2023	13-12-2012																																																																				
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME																																																																			
REF.DRG.NO.LP10112/ITEM-6																																																																					

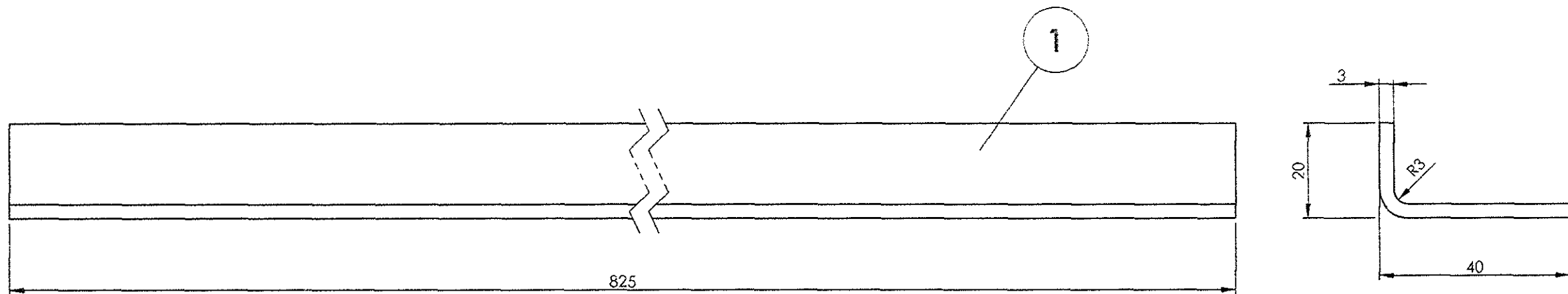
1		2		3		4		5		6		7		8																																																										
AAA14797				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																										
				▽▽▽ FINE FINISH MACHINED		①c CHAMFERED		a				R.M. SIZE ALTD FROM 5x60x630 TO 5x60x574.5		-sd-																																																										
								b				NOTE ADDED.		[Signature]																																																										
<div><div>1</div><div>574.5</div><div>60</div><div>5</div></div>																																																																								
<p><b>NOTE:</b></p> <p>1. ALTERNATIVELY MATERIAL AISI 304 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5 Cr Ni 18 10</p>																																																																								
<table><tr><td>1</td><td>FLAT FOR DOOR</td><td>5x60x574.5</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X5 Cr Ni 18 10</td><td>1.379</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="5">GROUP: 1-4</td><td colspan="2">SURFACE AREA IN Sq.m.:0.075</td><td>WT/ASSY IN Kgs:</td></tr><tr><td colspan="5" rowspan="4">FLAT FOR DOOR</td><td>SCALE</td><td>SSE/D</td><td>[Signature]</td></tr><tr><td>1:2.5</td><td>CHD</td><td></td></tr><tr><td>ALT. b</td><td>ALTD</td><td>T.Ukkirapandian</td></tr><tr><td></td><td>DRN</td><td>G.VIMALA</td></tr><tr><td colspan="5">INDIAN RAILWAY STANDARDS</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2">AAA14797</td><td>A3</td></tr></table>																1	FLAT FOR DOOR	5x60x574.5	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	1.379		QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-4					SURFACE AREA IN Sq.m.:0.075		WT/ASSY IN Kgs:	FLAT FOR DOOR					SCALE	SSE/D	[Signature]	1:2.5	CHD		ALT. b	ALTD	T.Ukkirapandian		DRN	G.VIMALA	INDIAN RAILWAY STANDARDS					SHEET 1 OF 1			INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14797		A3
1	FLAT FOR DOOR	5x60x574.5	1		RDSO/SPEC C-K201 X5 Cr Ni 18 10	1.379																																																																		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																	
GROUP: 1-4					SURFACE AREA IN Sq.m.:0.075		WT/ASSY IN Kgs:																																																																	
FLAT FOR DOOR					SCALE	SSE/D	[Signature]																																																																	
					1:2.5	CHD																																																																		
					ALT. b	ALTD	T.Ukkirapandian																																																																	
						DRN	G.VIMALA																																																																	
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1																																																																			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14797		A3																																																																	
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22-05-2023	13-12-2018	[Signature]																																																																						
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME																																																																						
REF.DRG.NO.LP10112/ITEM-7																																																																								

1		2		3		4		5		6		7		8																	
AAA14798				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																	
				▽▽▽ FINE FINISH MACHINED		① CHAMFERED		a				R.M. SIZE ALTD FROM 3x25x45 TO 3x25x35		-sd-																	
								b				NOTE ADDED.																			
<div><div>1</div><div><div>35</div><div>25</div></div><div><div>3</div></div></div> <div>NOTE: 1. ALTERNATIVELY MATERIAL AISI 304 MAY BE USED IN LIEU OF RDSO/SPEC C-K201 X5 Cr Ni 18 10</div>																1		FLAT FOR DOOR		3x25x35		1				RDSO/SPEC C-K201 X5 Cr Ni 18 10		0.021			
																QTY.		DESCRIPTION		DIMENSIONS		ITEM NO.		REF. DRGS		MATL.SPEC.		WT/UNIT IN KGS		REMARKS	
																GROUP: 1-4						SURFACE AREA IN Sq.m.:0.002						WT/ASSY IN Kgs:			
																FLAT FOR DOOR										SCALE 2:1		SSE/D			
																										ALT. b		ALTD		T.Ukkirapandian	
												DRN		G.VIMALA																	
INDIAN RAILWAY STANDARDS										SHEET 1 OF 1		AAA14798				A3															
INTEGRAL COACH FACTORY, CHENNAI - 600038																															
22-05-2023		09-01-2013																													
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																											
REF.DRG.NO.LP10112/ITEM-8																															
1		2		3		4		5		6		7		8																	

AAA14806

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



1	ANGLE	3x54x825	1		RDSO/SPEC C- K201 X2 Cr Ni 12	1.090	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.096			WT/ASSY IN Kgs:1.090		
ANGLE					SCALE	SSE/D	<i>P. Sange</i>
					1:1	CHD	
					ALT.	ALTD	
						DRN	G.VIMALA
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14806		A3

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

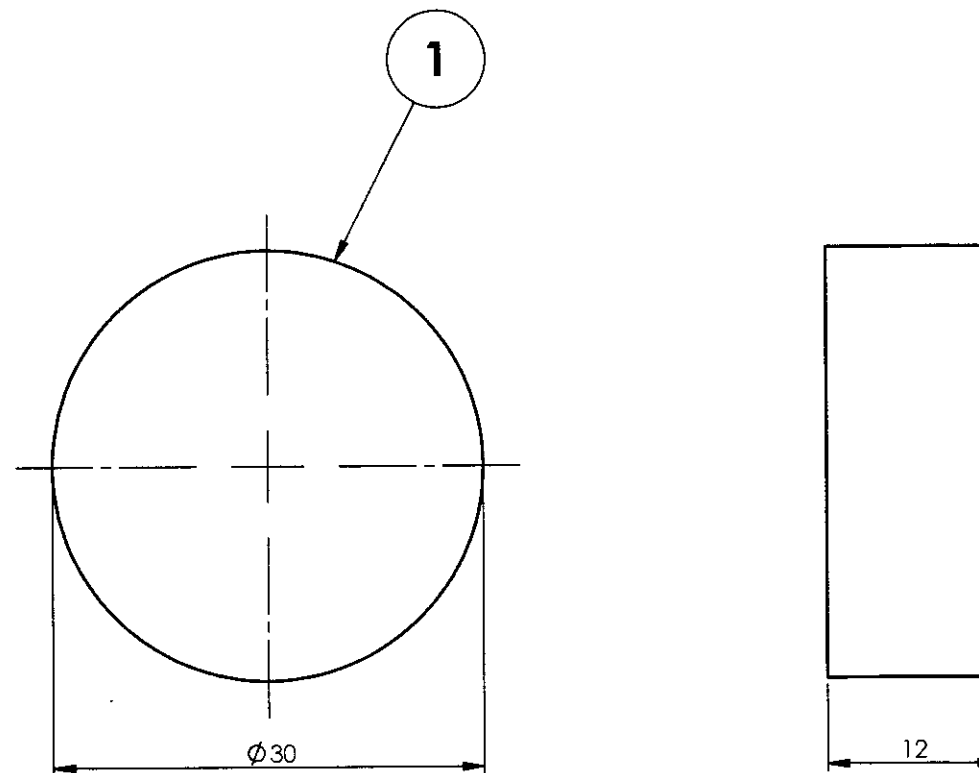
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	9/11/2013	<i>9/11/13</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA14807

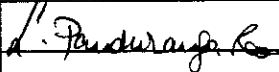
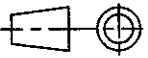
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		MATERIAL SPECIFICATION REVISED, NOTE - 1 ADDED.		



## NOTE

1. ALTERNATIVELY ASTM A - 276 TYPE 304 CAN ALSO BE USED.

1	SCREWING PIECE	12xDIA 30	1		IS 6603-2001 X04Cr19Ni9	0.068	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls			SURFACE AREA IN Sq.m.:0.003		WT/ASSY IN Kgs:0.068		
SCREWING PIECE					SCALE 2:1	SSE/D	
						CHD	
					ALT. a	ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
SHEET 1 OF 1					AAA14807		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.

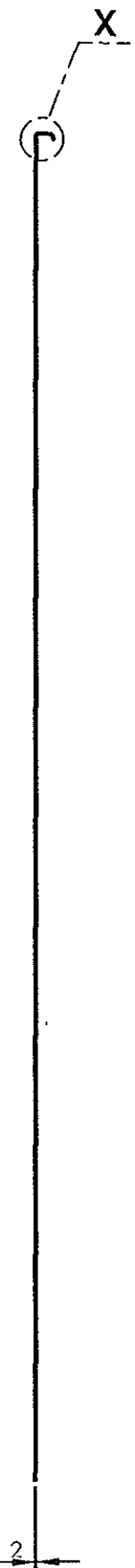
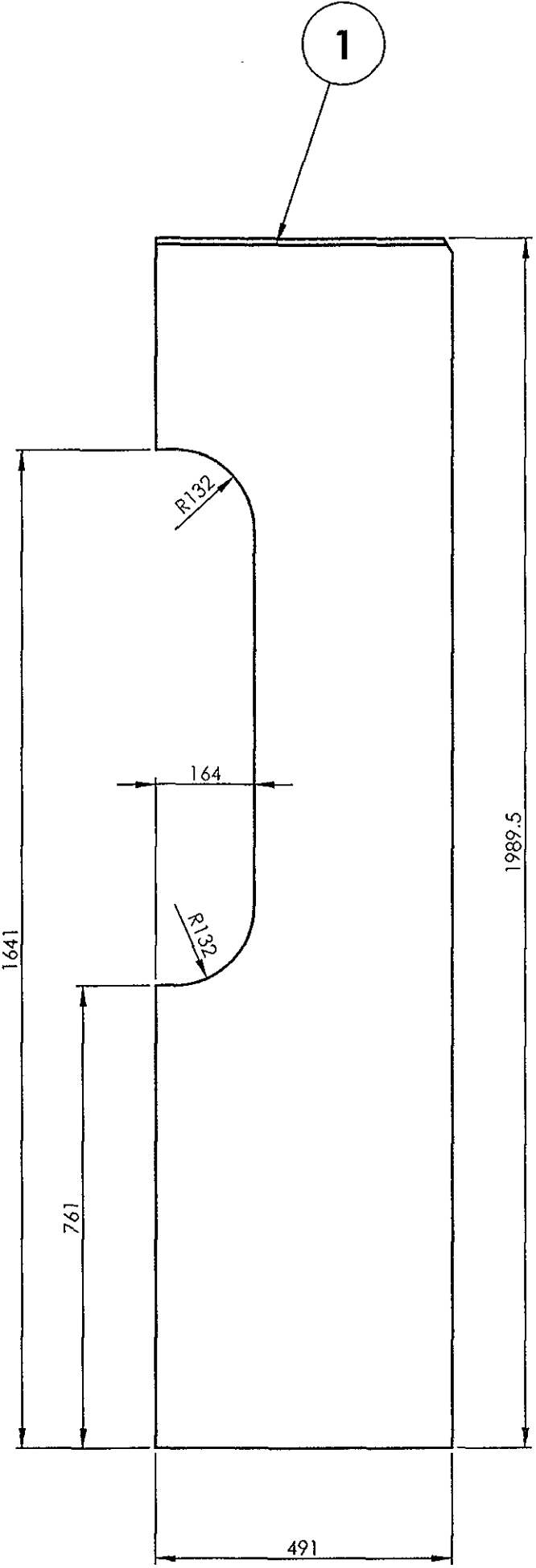
9904



AAA14810

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



DETAIL X  
SCALE 2 : 1

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.3.10113.0.20.114.102

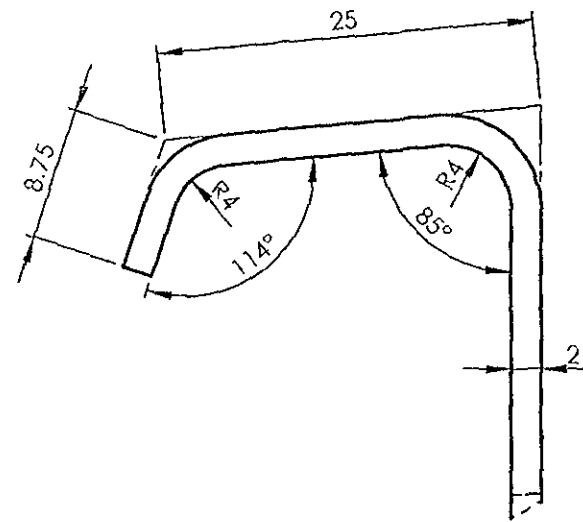
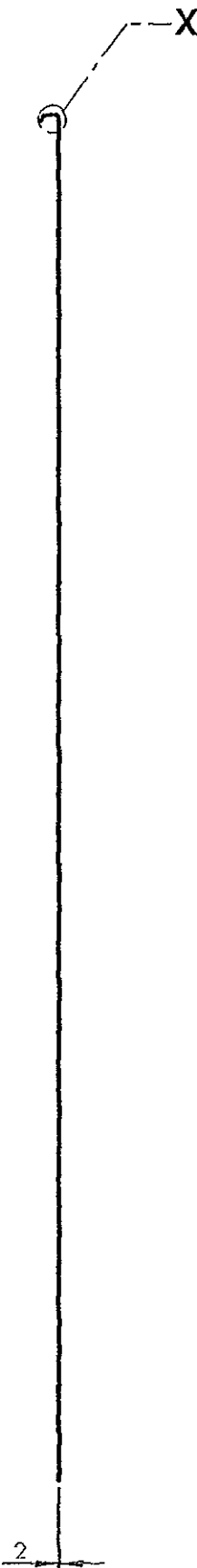
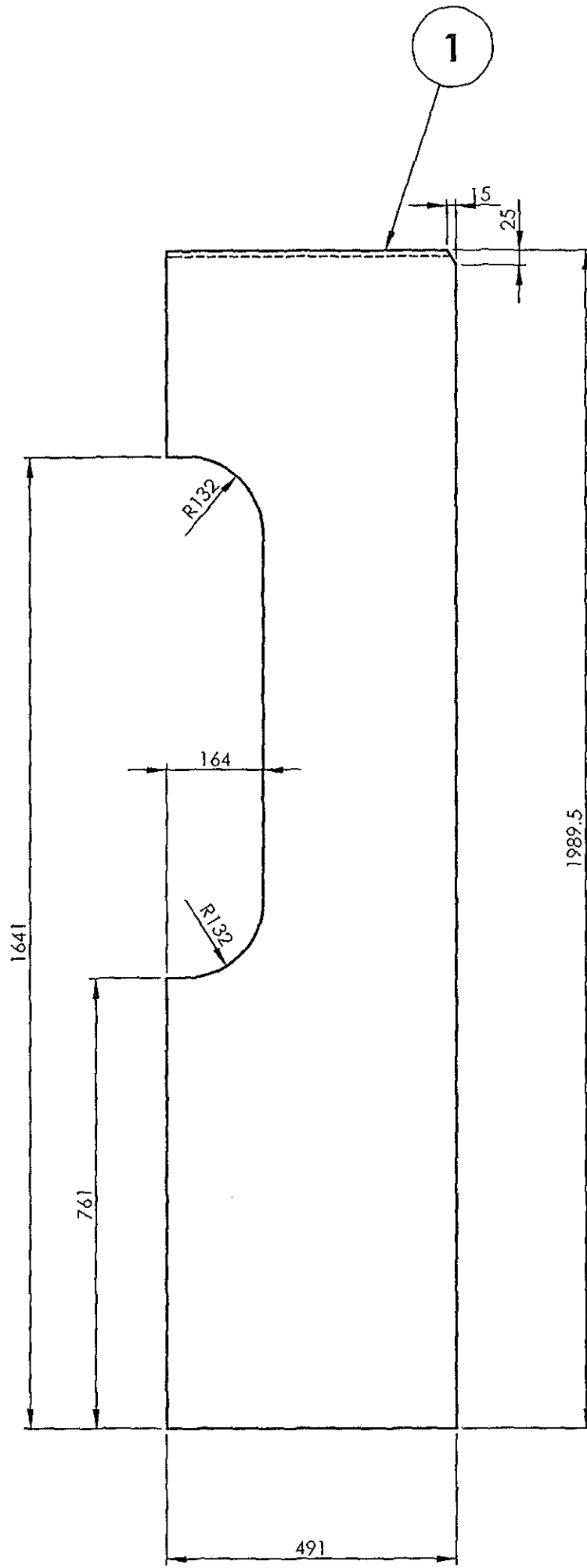
DATE OF LATEST ALL	15-04-2013	10 v 10/10
DATE OF FIRST ISSUE		AME/SME

1	LAV. SIDE WALL SHEET	2x491x2019.5	1		RDSO/SPEC C- K201 X2 Cr Ni 12	13.642	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.: 1.716			WT/ASSY IN Kgs:13.642		
LAV. SIDE WALL SHEET					SCALE 1:10	SSE/D	10/10/10
						CHD	
					ALT	ALTD	
					DRN	A.Muthukumar	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					AAA14810		A2

AAA14812

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



DETAIL X  
SCALE 2 : 1

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.3.10113.0.20.114.102

1	LAV. SIDE WALL SHEET	2x491x2019.5	1		RDSO/SPEC C- K201 X2 Cr Ni 12	13.642		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-4			SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:13.642		
LAV. SIDE WALL SHEET						SCALE 1:10	SSE/D	
							CHD	
						ALT	ALTD	
							DRN	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1			
						AAA14812		A2

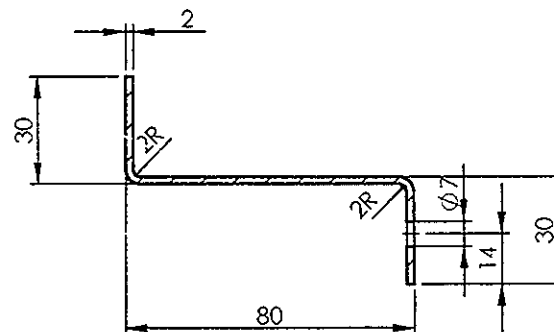
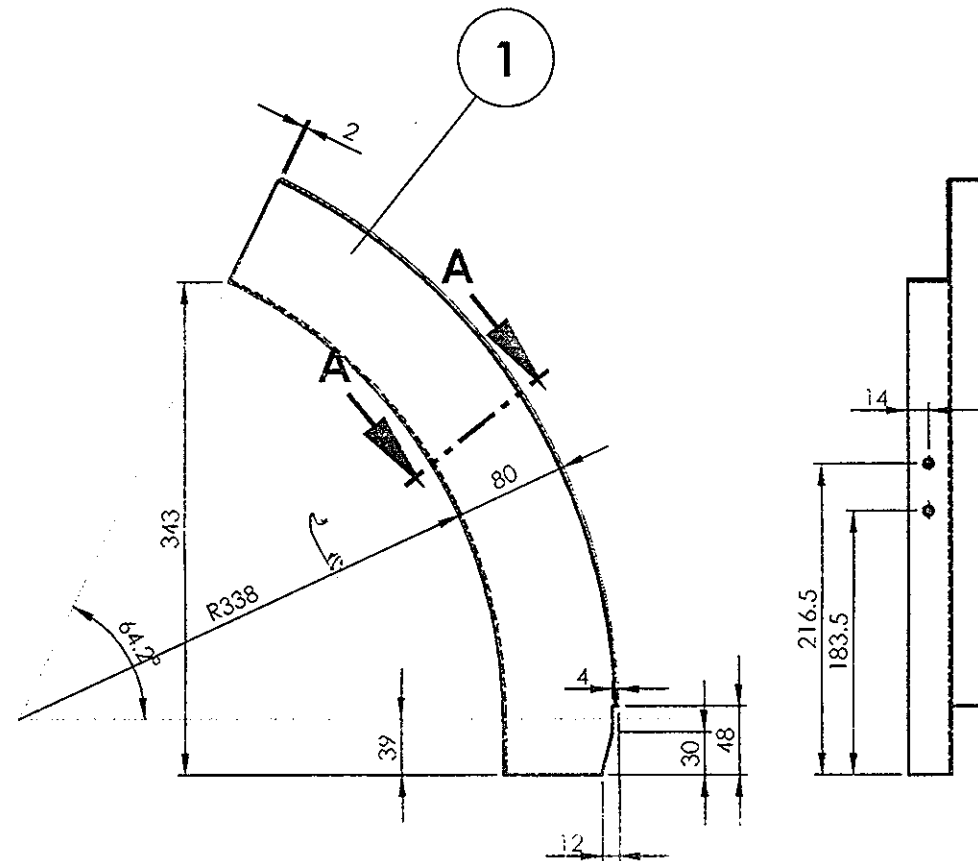
DATE OF LATEST ALL.	15-04-2013	AME/SME
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AAA14857

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

## REVISIONS

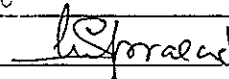
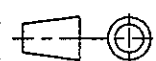
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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SECTION A-A  
SCALE 1 : 2

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND SURFACED 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.

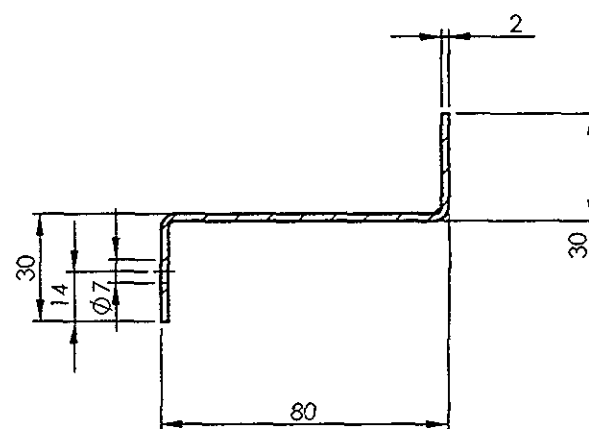
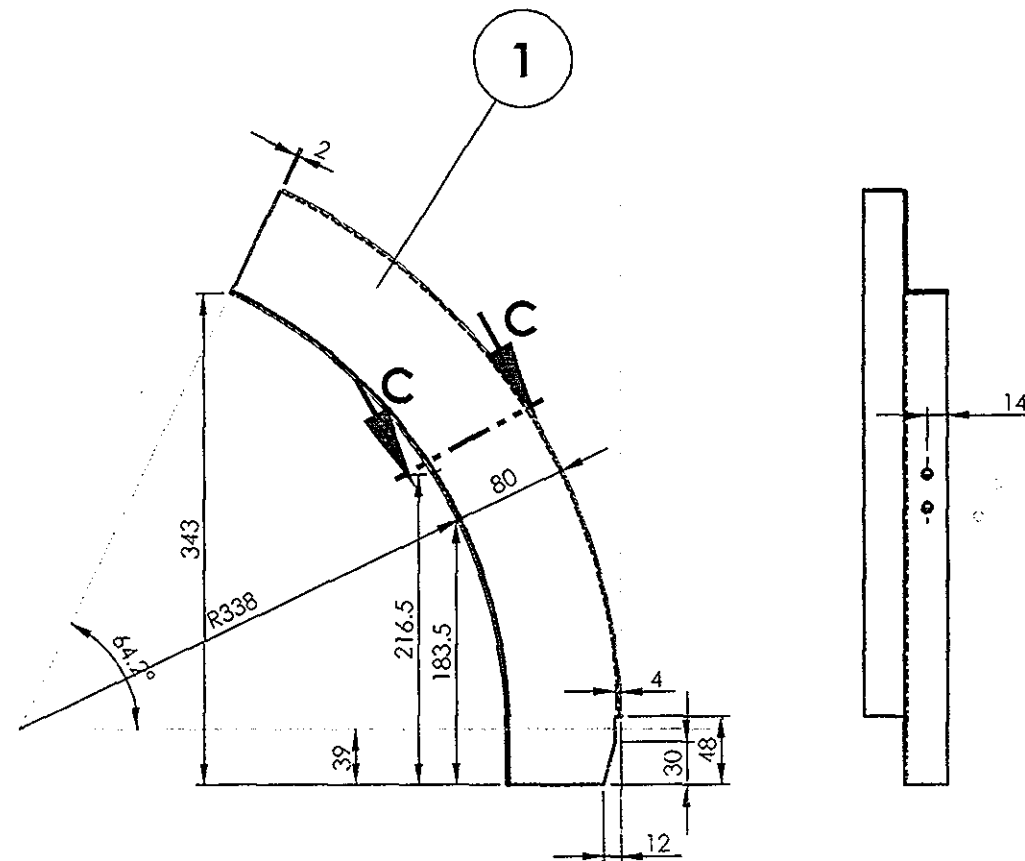
11-03-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE
	AME/SME

1	ARCH	2X305.5X440	1		RDSO/SPEC C-K20: X2CrNi12	0.960	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4			SURFACE AREA IN Sq.m.:0.123		WT/ASSY IN Kgs:0.960		
ARCH					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600088				SHEET 1 OF 1			
					AAA14857		A3

AAA14858

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

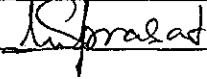

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

SECTION C-C  
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.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.LW14157

	11-03-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	ARCH	2X305.5X440	1		RDSO/SPEC C-K201 X2CrNi12	0.960	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.122			WT/ASSY IN Kgs:0.960		
ARCH R H					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		AAA14858
							A3

AAA14859

▽ ROUGH MACHINED

① ROUGH CLEANED

▽▽ FINISH MACHINED

② BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

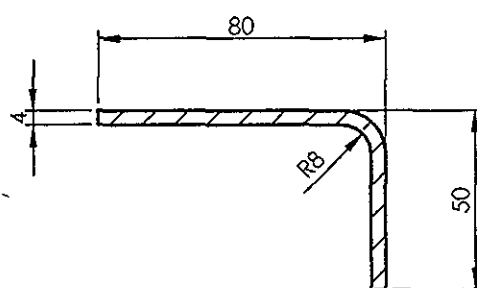
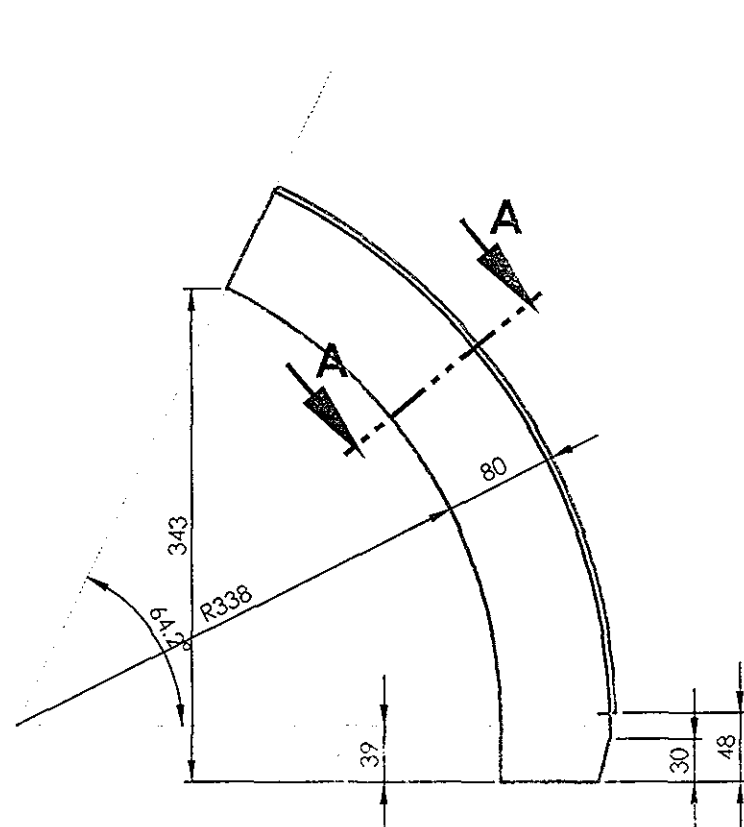
③ CHAMFERED

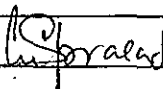
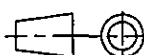
REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &  
DATESECTION A-A  
SCALE 1 : 2

1	ARCH	4X122.5X476	1		RDSO/SPEC C-K201 X2CrNi12	1.783	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.116			WT/ASSY IN Kgs:1.783		
ARCH					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1	AAA14859	A3

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

REF.DRG.NO.2.10113.0.20.110.113

AAA14860

▽ ROUGH MACHINED

③ ROUGH CLEANED

▽▽ FINISH MACHINED

④ BURRS REMOVED

▽▽▽ FINE FINISH MACHINED

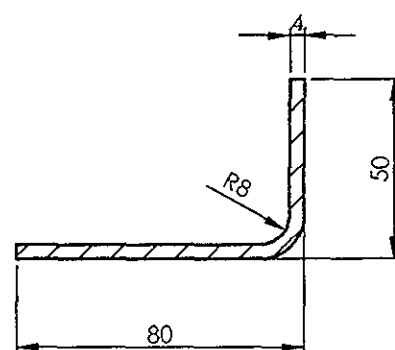
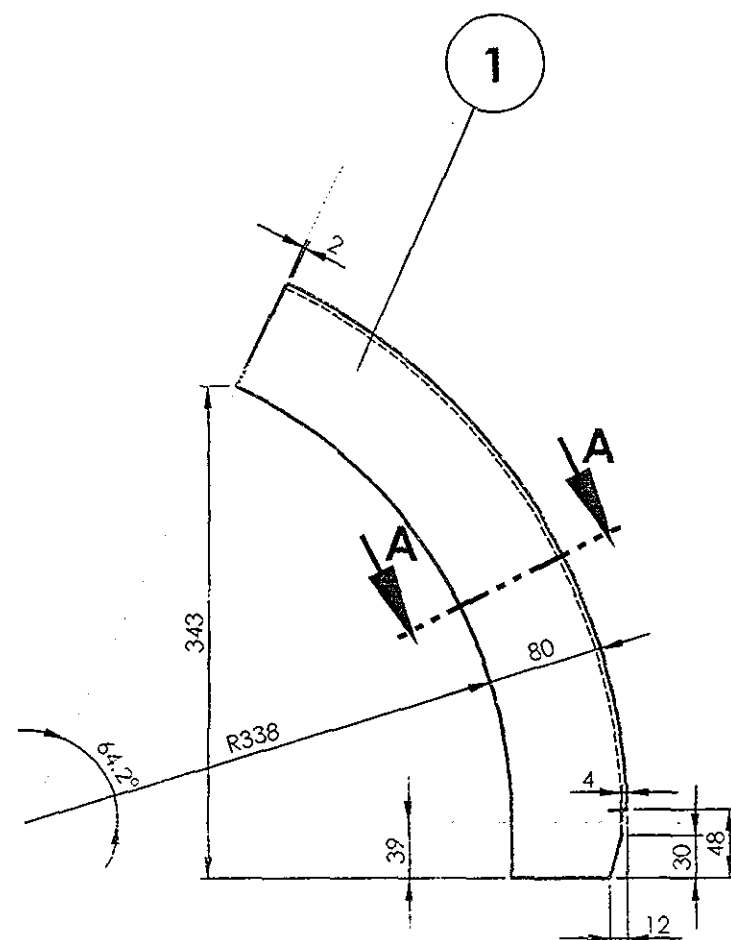
⑤ CHAMFERED

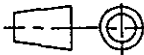
REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &  
DATESECTION A-A  
SCALE 1 : 2

1	ARCH	4x122.5x476	1		RDSO/SPEC C-K201 X2CrNi12	1.783	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:0.116			WT/ASSY IN Kgs:1.783		
ARCH					SCALE	SSE/D	<i>S. Prasad</i>
					1:5	CHD	
					ALT.	ALTD	
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600088							
					SHEET 1 OF 1		AAA14860

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.

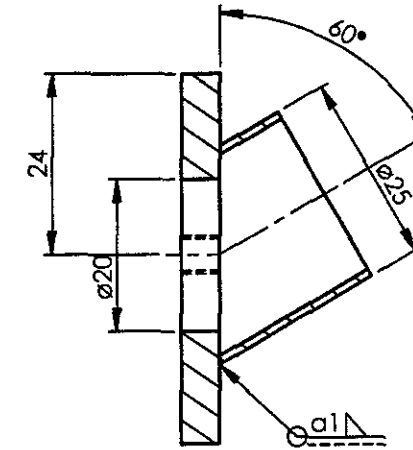
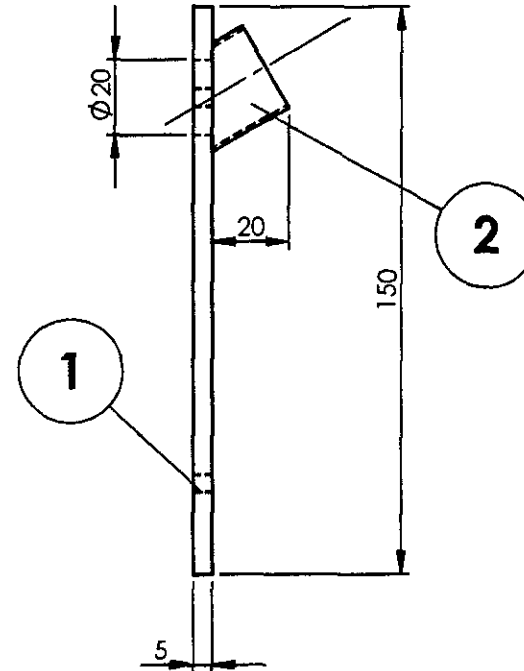
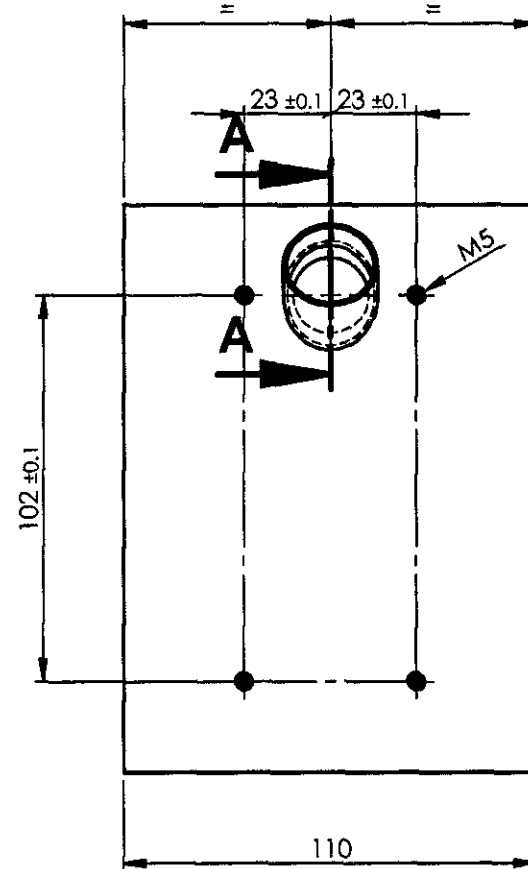
REF.DRG.NO.2.10113.0.20.110.112

AAA14904

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

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		#20 HOLE RELOCATED, ITEM-2 AND SECTION-AA ADDED.	-sd-
b		M5 TAPPED HOLES ADDED.	-sd-
c		NOTE ADDED.	<i>sd</i>



SECTION A-A

**NOTE:-**

# 1. ALTERNATIVELY AISI-304/SS-304 (X02Cr19Ni10)/IS:6911(X04Cr19Ni9) ALSO ACCEPTABLE.

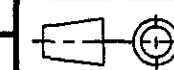
1	PIPE	1xOD25x23	2		AISI304	0.010	
1	BACKPIECE	5x110x150	1		RDSO/SPEC C-K 201 X2CrNi12	0.645	#
QTY.	DESCRIPTION	DIMENSION	ITEM NO.	REF. DRGS	MATL. SPEC.	WT/UNIT IN KGS	REMARKS

GROUP: 1-4 Body Side Walls

SURFACE AREA IN Sq.m.:0.038

WT/ASSY IN Kgs:0.655

## BACKPIECE FOR PACIL

SCALE  
1:1SSE/D  
CHDALT.  
cALTD  
DRNKunti Thakur  
A.Muthukumar

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET  
1 OF 1

AAA14904

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.

-08-2024

DATE OF LATEST ALT.

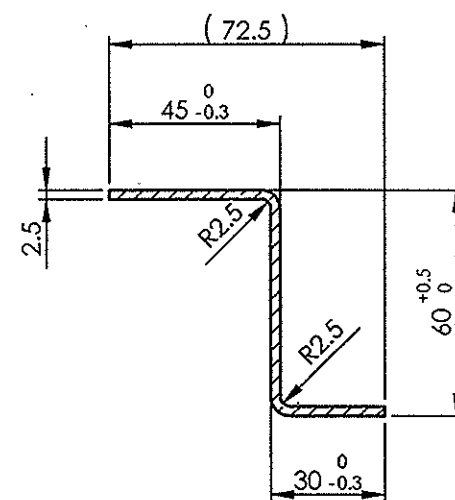
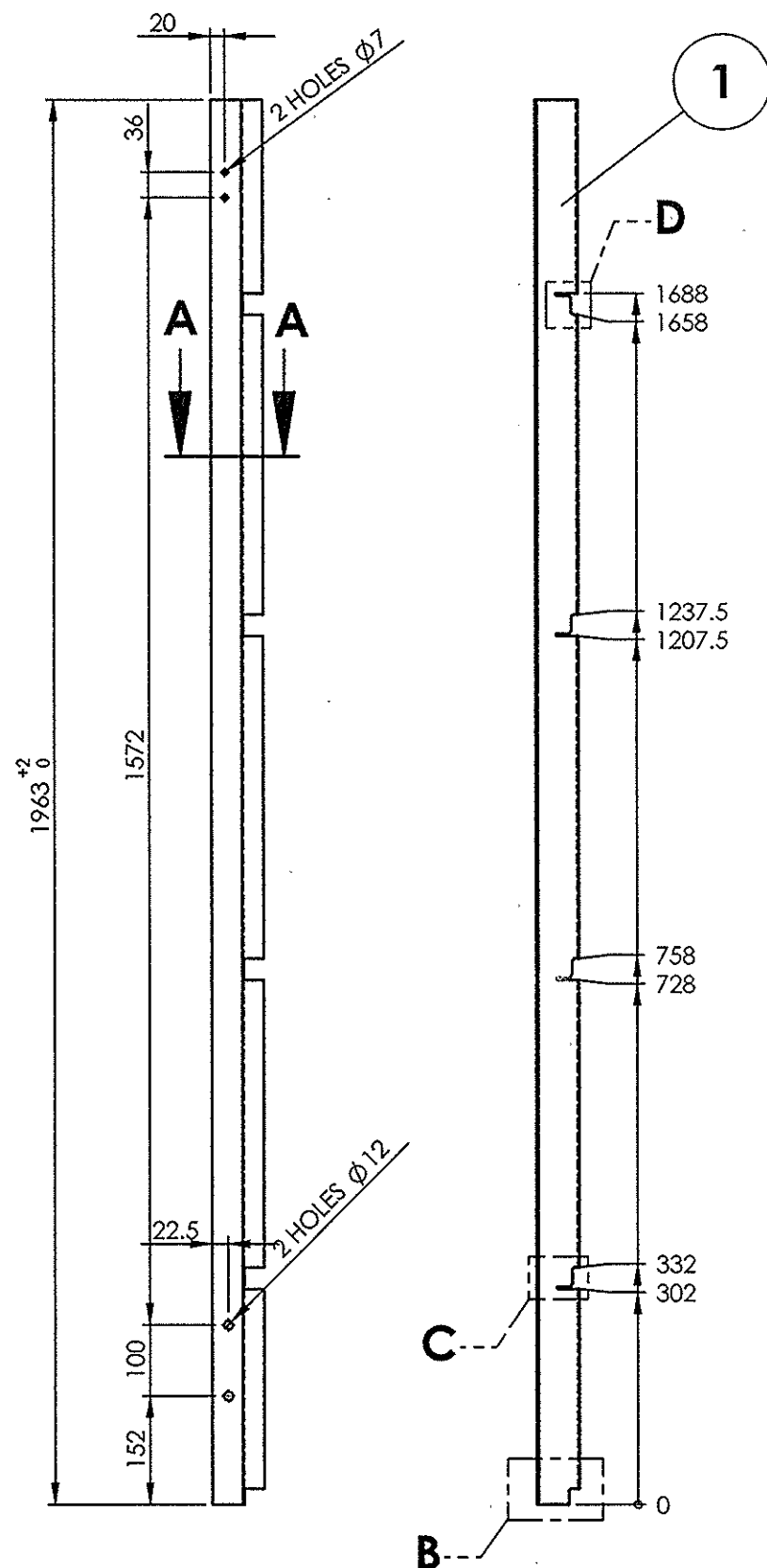
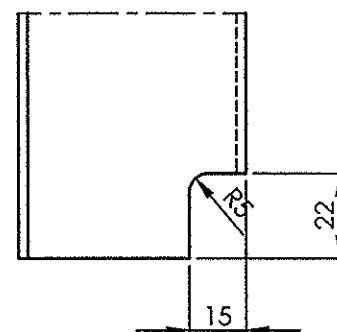
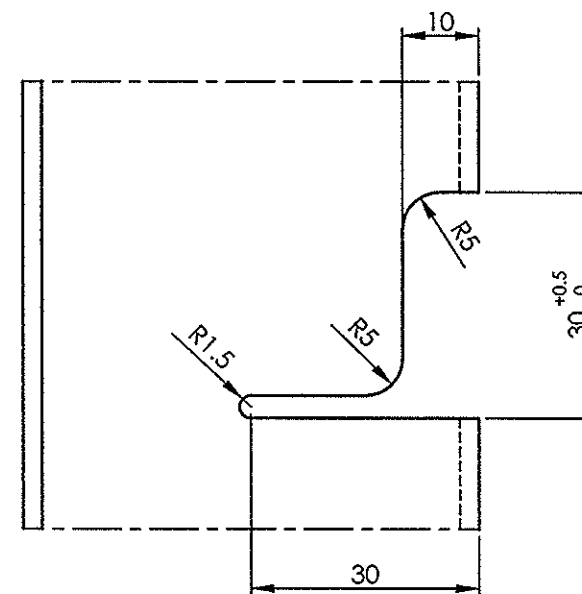
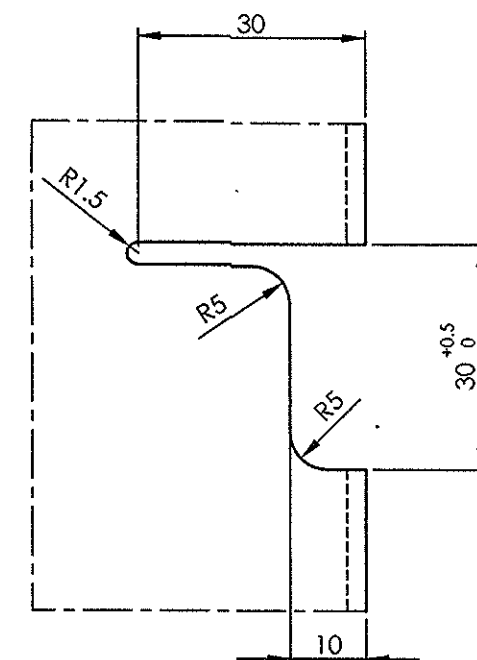
15-04-2013

DATE OF FIRST ISSUE

AME/SME

AAA14931

		REVISIONS			
▽▽ FINISH MACHINED	⑩ BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽ FINE FINISH MACHINED	⑱ CHAMFERED				

SECTION A-A  
SCALE 1 : 2DETAIL B  
SCALE 1 : 2DETAIL C  
SCALE 1 : 1DETAIL D  
SCALE 1 : 1

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.2 10113.0.20.112.100

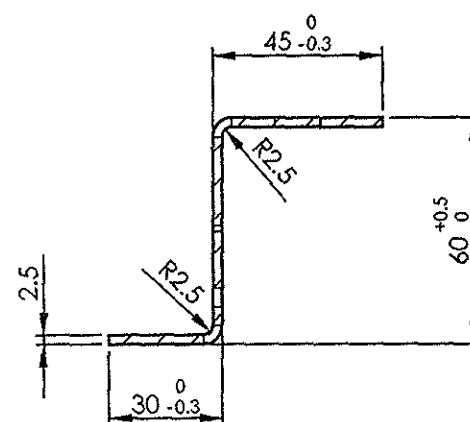
	30-10-2014	06.12.2014
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	PILLAR	2.5x125.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	4.862	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 SIDE WALL ASSEMBLY				SURFACE AREA IN Sq.m.:0.498		WT/ASSY IN Kgs:	
PILLAR					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA14931		
					A3		



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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



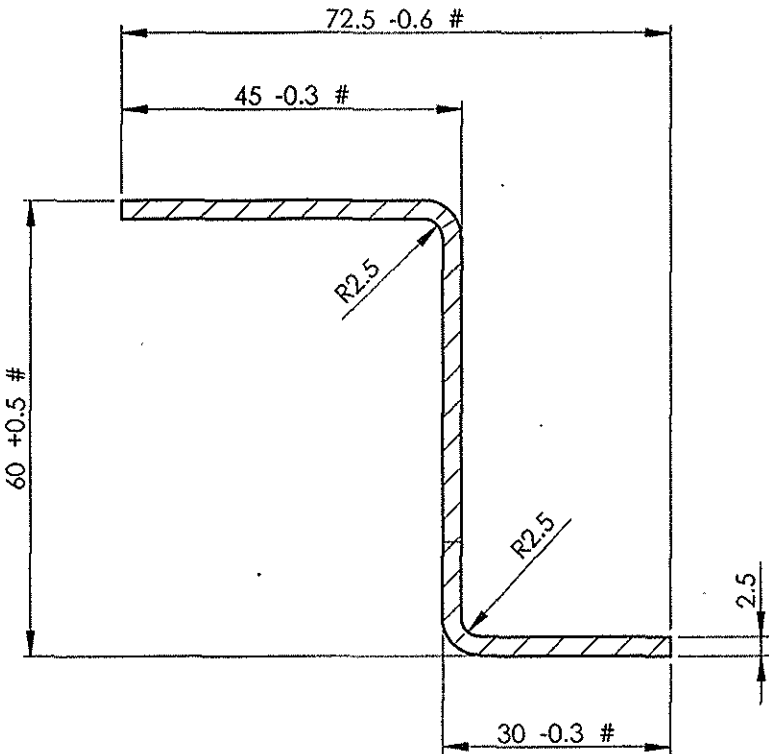
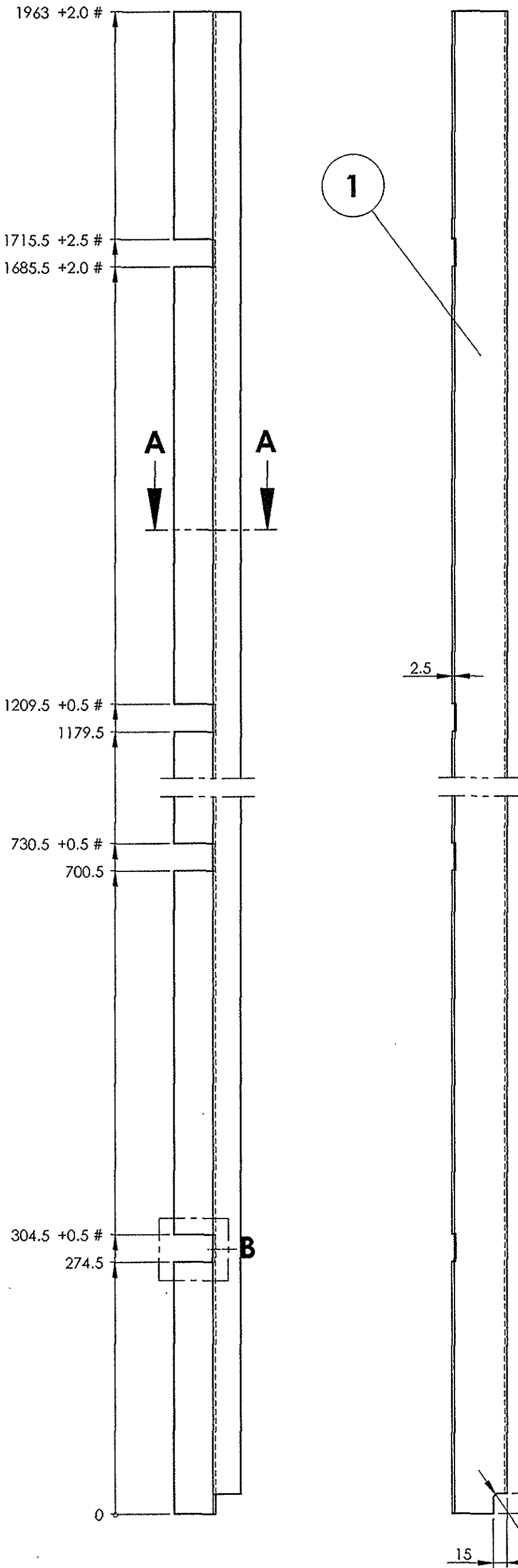
Technical drawing of a mechanical part. The drawing shows a cross-section of a part with a width of 30. The part has a vertical section on the right with a height of 10. The top horizontal section has a radius of R1.5. The vertical section has a radius of R5. The bottom horizontal section has a radius of R5. The part is shown with a tolerance of +0.5/0.

1	PILLAR	2.5x125.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	4.862	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 SIDE WALL ASSEMBLY		SURFACE AREA IN Sq.m.:0.498			WT/ASSY IN Kgs:		
PILLAR					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAA14932		A3

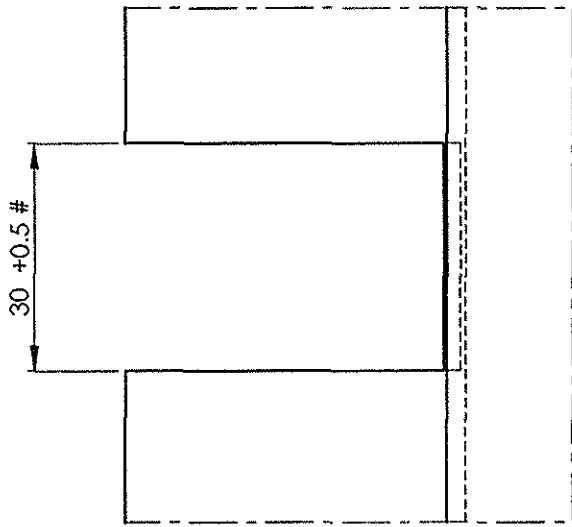
AAA14938

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

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			





SECTION A-A  
SCALE 1 : 1



DETAIL B  
SCALE 1 : 1

NOTE:

# 1. MANDATORY MANUFACTURING ALLOWANCES.

1	PILLAR	2.5x125.4x1963	1		RDSO/SPEC C-K201 X2CrNi12	4.854	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 SIDEWALL ASSEMBL		SURFACE AREA IN Sq.m.: 0.497			WT/ASSY IN Kgs:		
PILLAR					SCALE 1:5	SSE/D	
						CHD	
					ALT	ALTD	
					DRN	P.MURUGAN	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
						AAA14938	

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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.2 11013.0.20.112.108 Alt A