

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

Architectural section drawing of a building facade. The drawing shows a series of windows and structural elements. Dimensions are provided for various sections: 232, 104, 232, 464, 464, 464, 232, 104. A central dimension of 1804 is shown for the main window opening. Other dimensions include 178, 350, and 1580. Callouts include '# 16', '# 33', and 'G. OF WINDOW'. A note on the right side reads 'WY HOES IN ROOF PL.'.

Technical drawing of a vertical component. Callout 33 points to a hole. Callout # points to a hole. Callout 3 points to a hole. Callout 40 points to a hole. Callout 346 ±1 points to the overall height. Callout 5 points to a hole. Callout 18 points to a hole.

Technical drawing of a door handle assembly (16) with dimensions 3K and 60.

SECTION D-D
SCALE 1 : 5

SECTION K-K
SCALE 1 : 7

SECTION L-L
SCALE 1 : 5

ISOMETRIC VIEW

34

33

16

35

22

140

5

18

x

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and a detail view. The main drawing shows a vertical profile with a horizontal base. Dimensions include a total height of 160, a top section height of 50, and a base width of 22. A detail view 'a2' is shown with a circular feature of diameter 35.



27

$\frac{a2/}{a2/} 50$

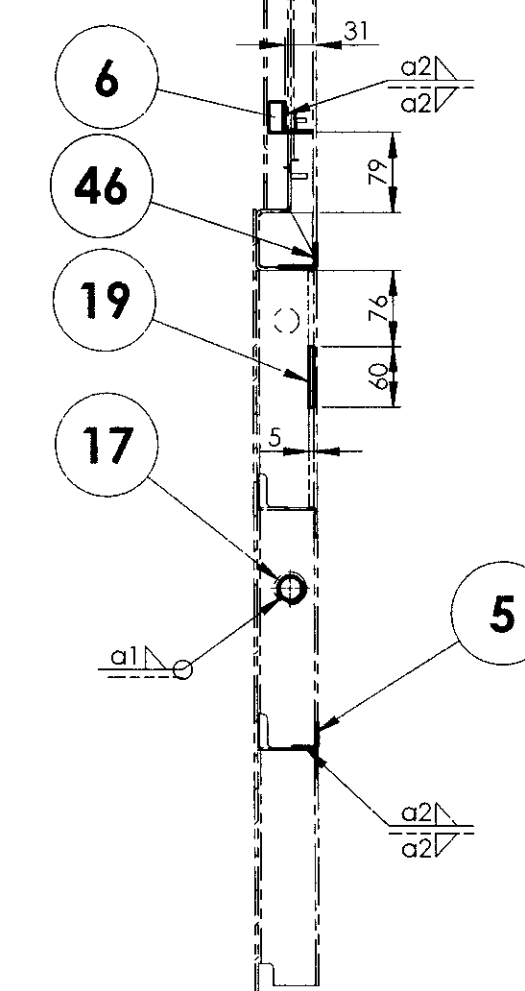
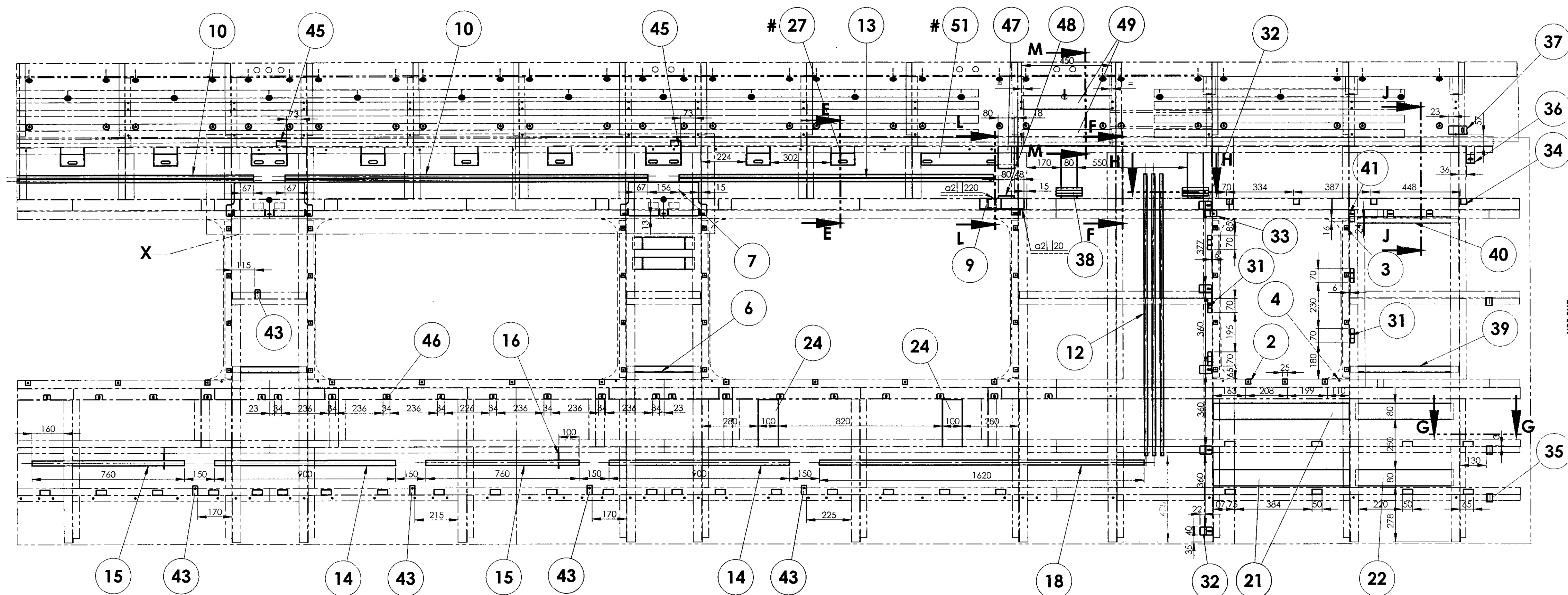
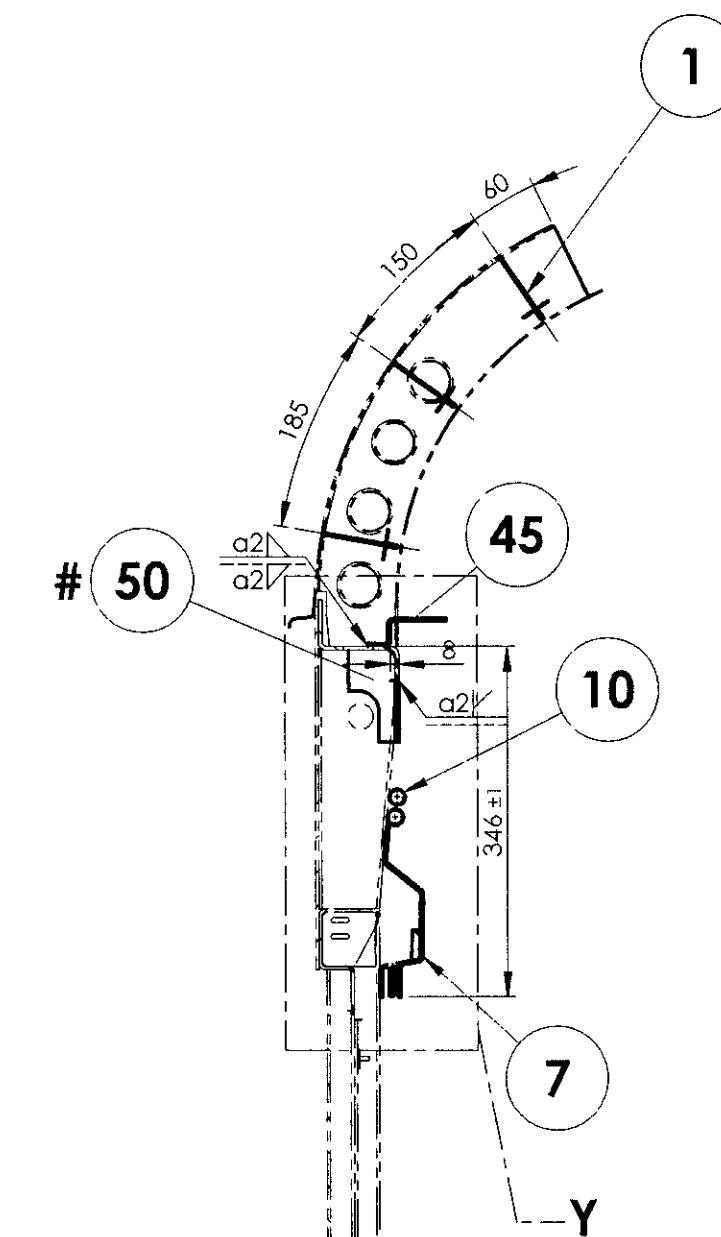
NOTE:

1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
8. ALL TAPPED HOLES TO BE CLOSED USING SUITABLE PVC PLUGS BEFORE PAINTING.
9. # - ITEM-16.33&34 TO BE WELDED IN LINE WITH THE ROOF FLANGE

23.05.23	14-08-2021	<i>Shc</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.: 109.164		WT/ASSY IN Kgs:	
WELDING PARTS ON SIDEWALL		SCALE 1:50	SSE/D		
		ALT: 9	ALTD	P.NAVEEN	
		DRN	A.Palanichamy		
				TS/DTC	
INDIAN RAILWAY STANDARDS		SHEET 2 OF 2		88914027	
INTEGRAL COACH FACTORY, CHENNAI - 600038				A1	

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO CFSID-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:313-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.




SECTION A-A
SCALE 1 : 7.5

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 ISO 31-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.

07-08-2021
DATE OF LATEST A

14-08-2021	
DATE OF FIRST ISSUE	AME/SME

GROUP: 1-4 Body Side Walls

SURFACE AREA IN Sq.m.:

WT/ASSY IN Kgs:	
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WELDING PARTS ON SIDEWALL

INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038

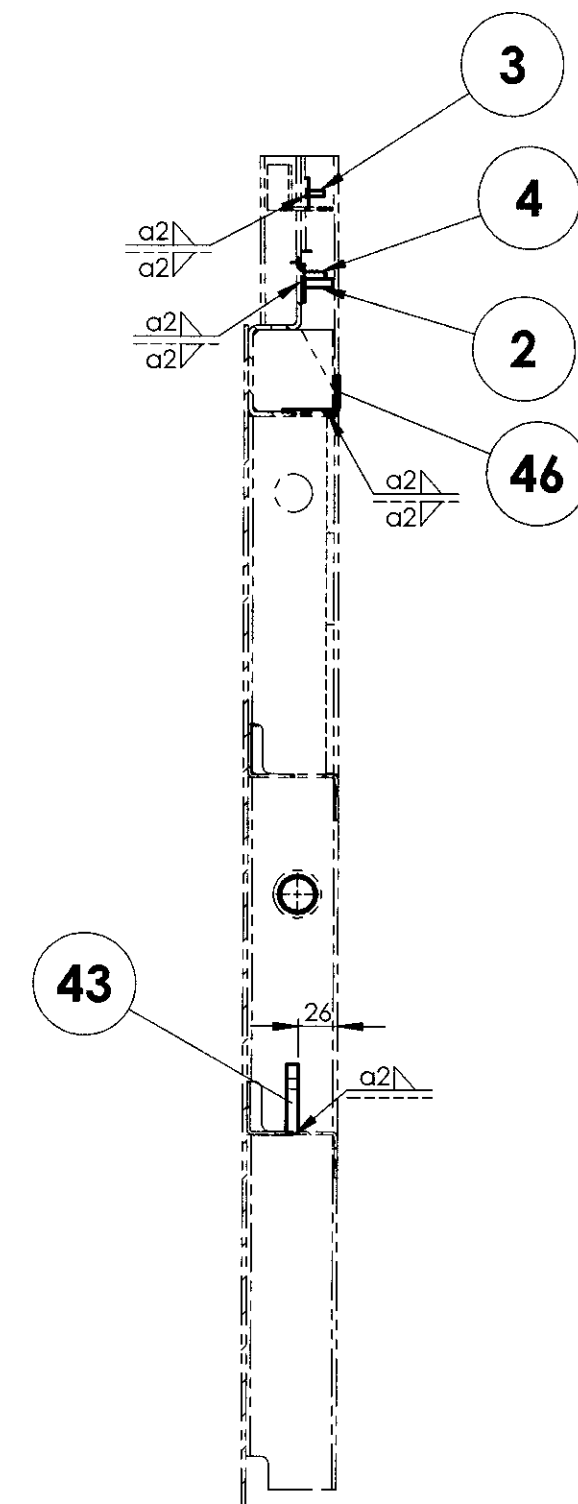
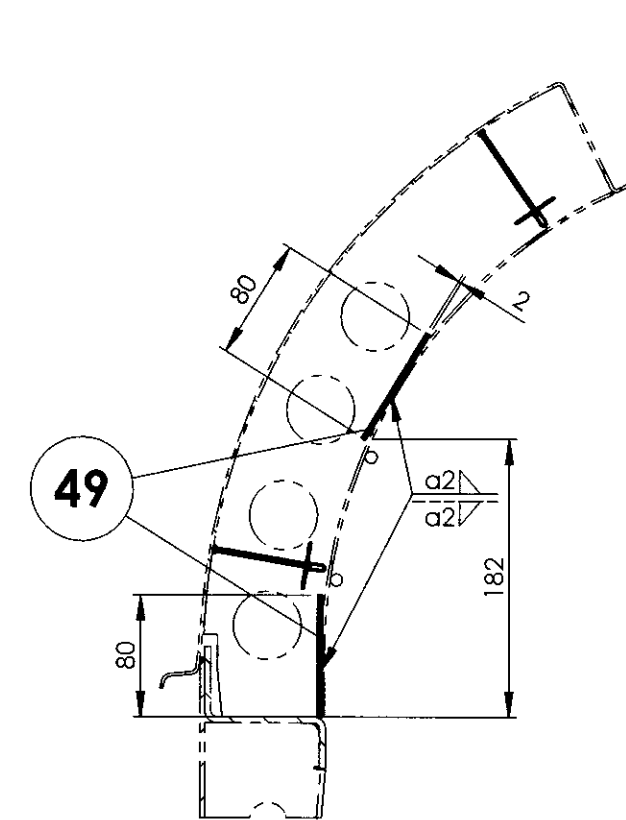
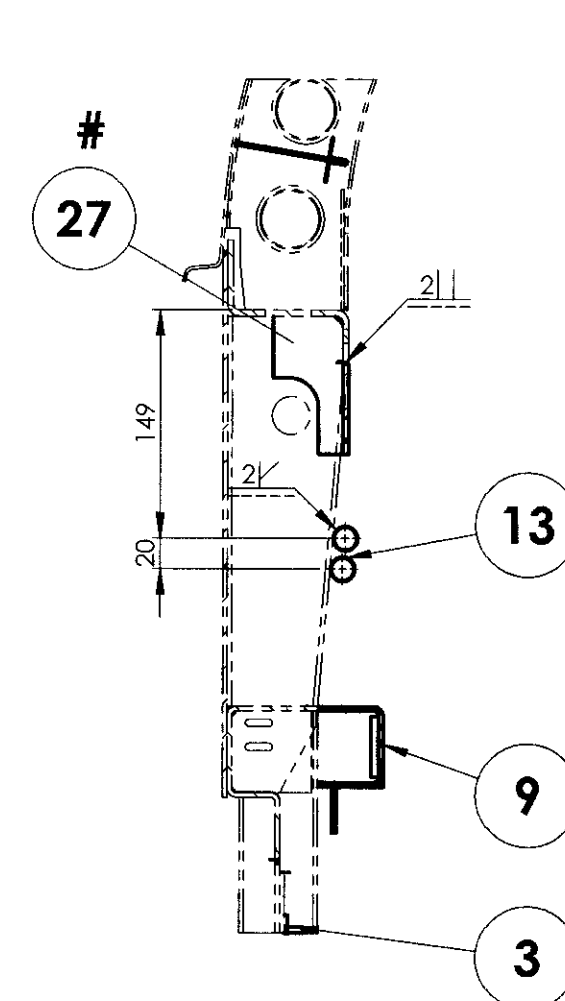
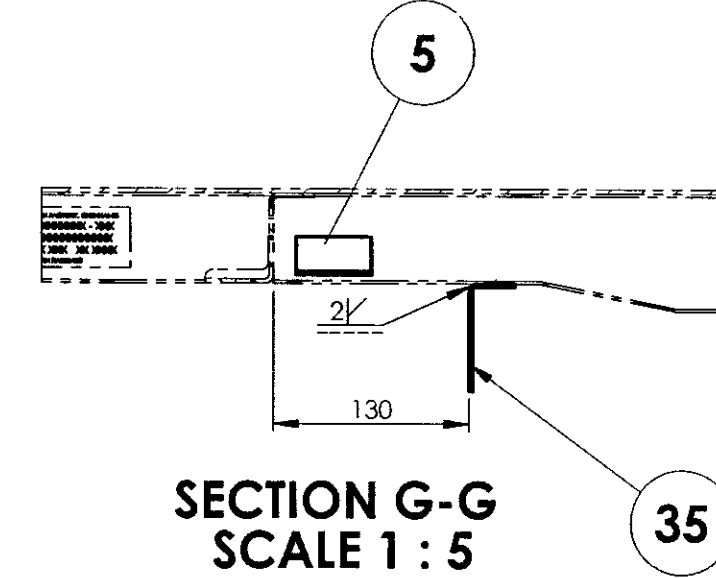
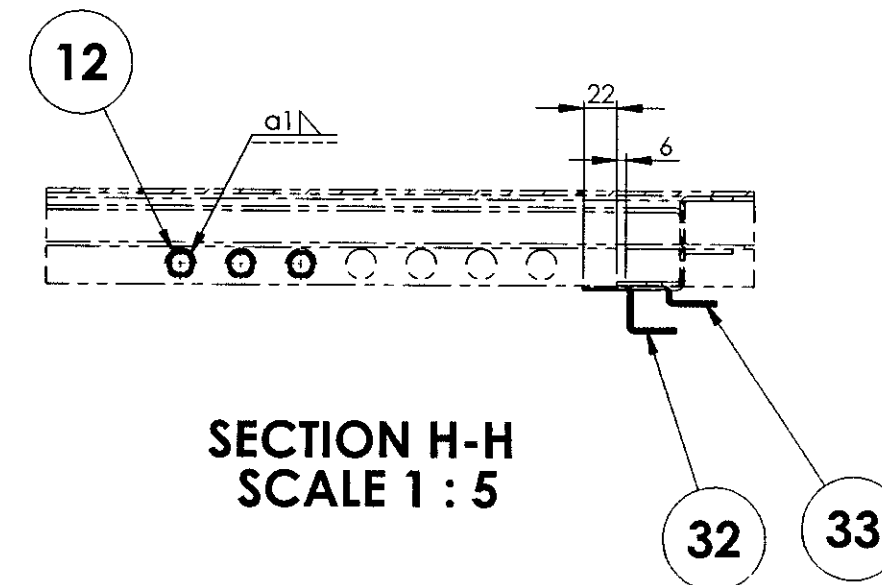
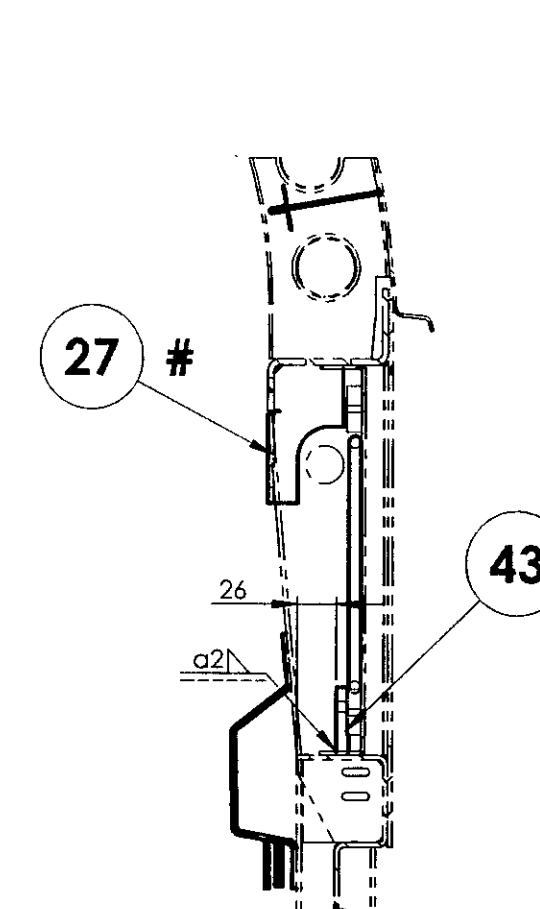
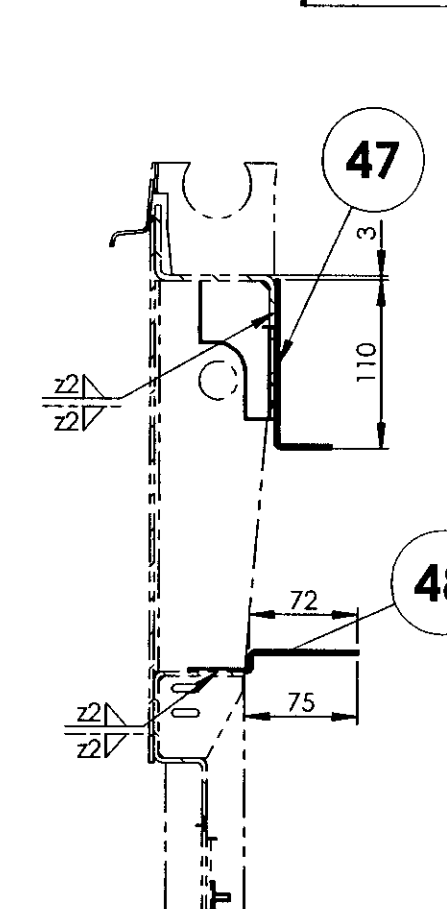
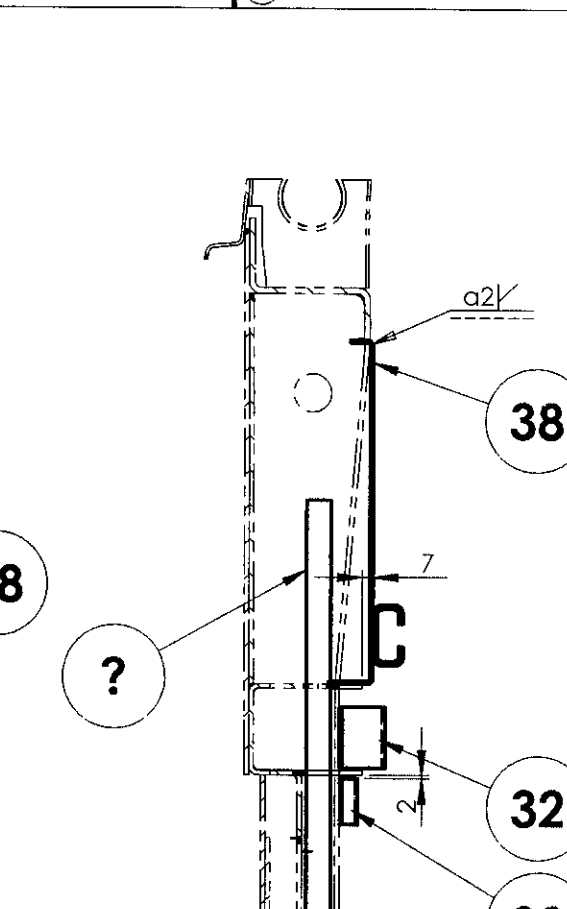
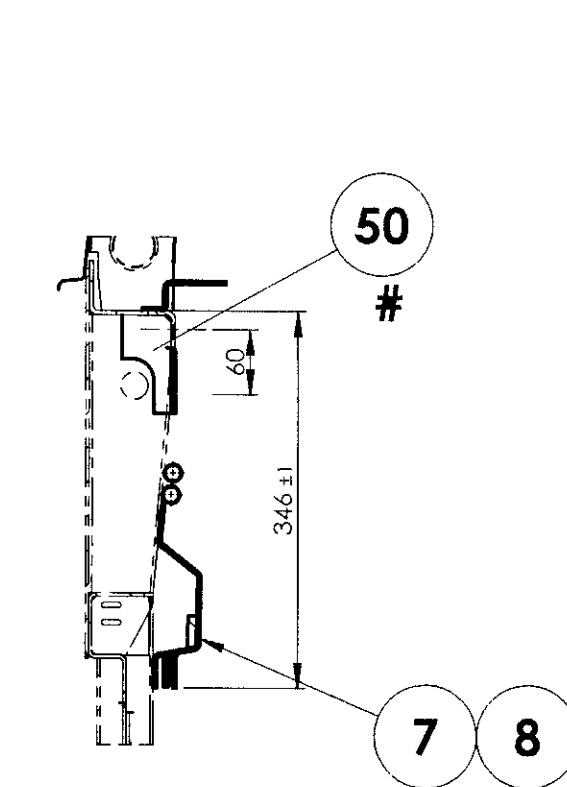
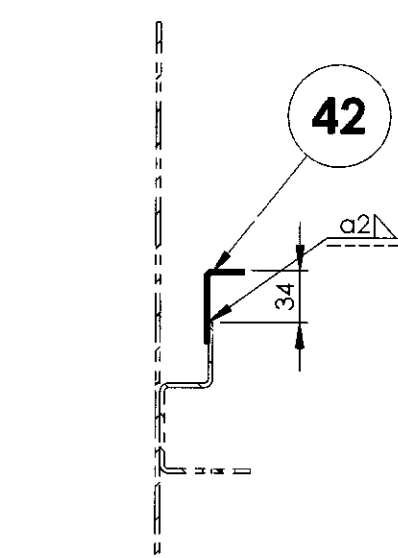
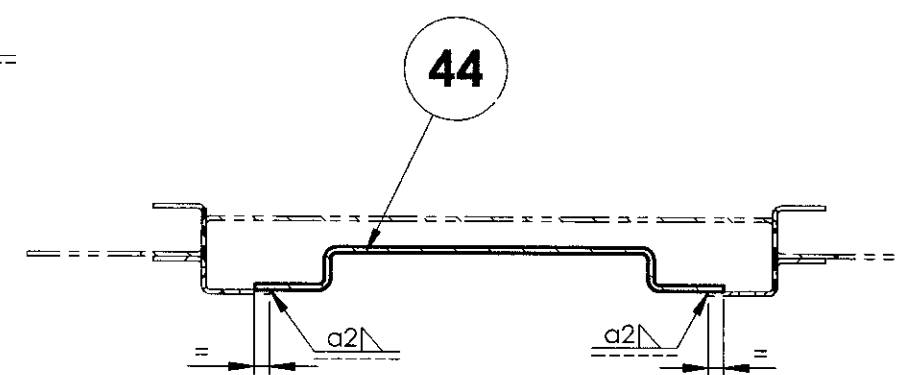
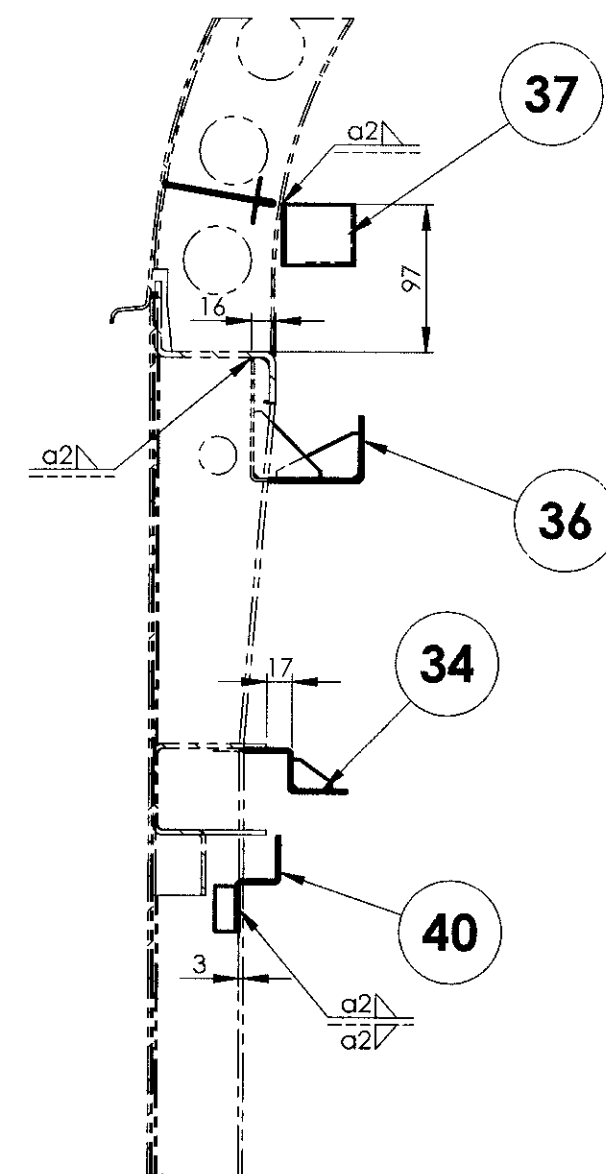
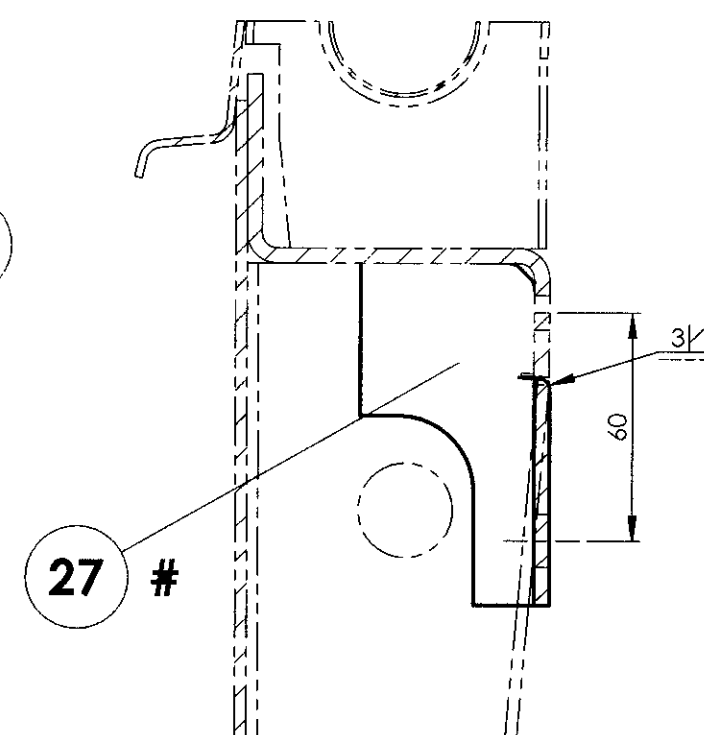
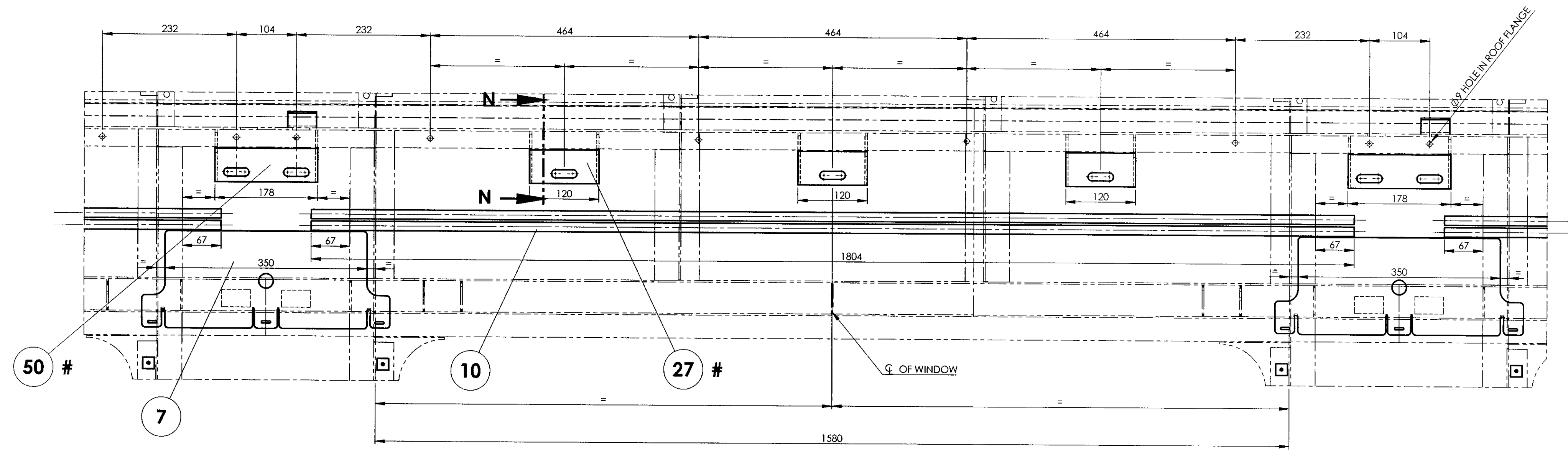
SHEET
1 OF 3

TS/DTC

88914028

A1

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

SECTION B-B
SCALE 1 : 5SECTION M-M
SCALE 1 : 5SECTION E-E
SCALE 1 : 5SECTION G-G
SCALE 1 : 5SECTION H-H
SCALE 1 : 5SECTION K-K
SCALE 1 : 5SECTION L-L
SCALE 1 : 5SECTION F-F
SCALE 1 : 5DETAIL Y
SCALE 1 : 7SECTION C-C
SCALE 1 : 5SECTION D-D
SCALE 1 : 5SECTION J-J
SCALE 1 : 5SECTION N-N
SCALE 1 : 2DETAIL X
SCALE 1 : 5

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REF.DWG.NO.


14-08-2021	14-08-2021	14-08-2021
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

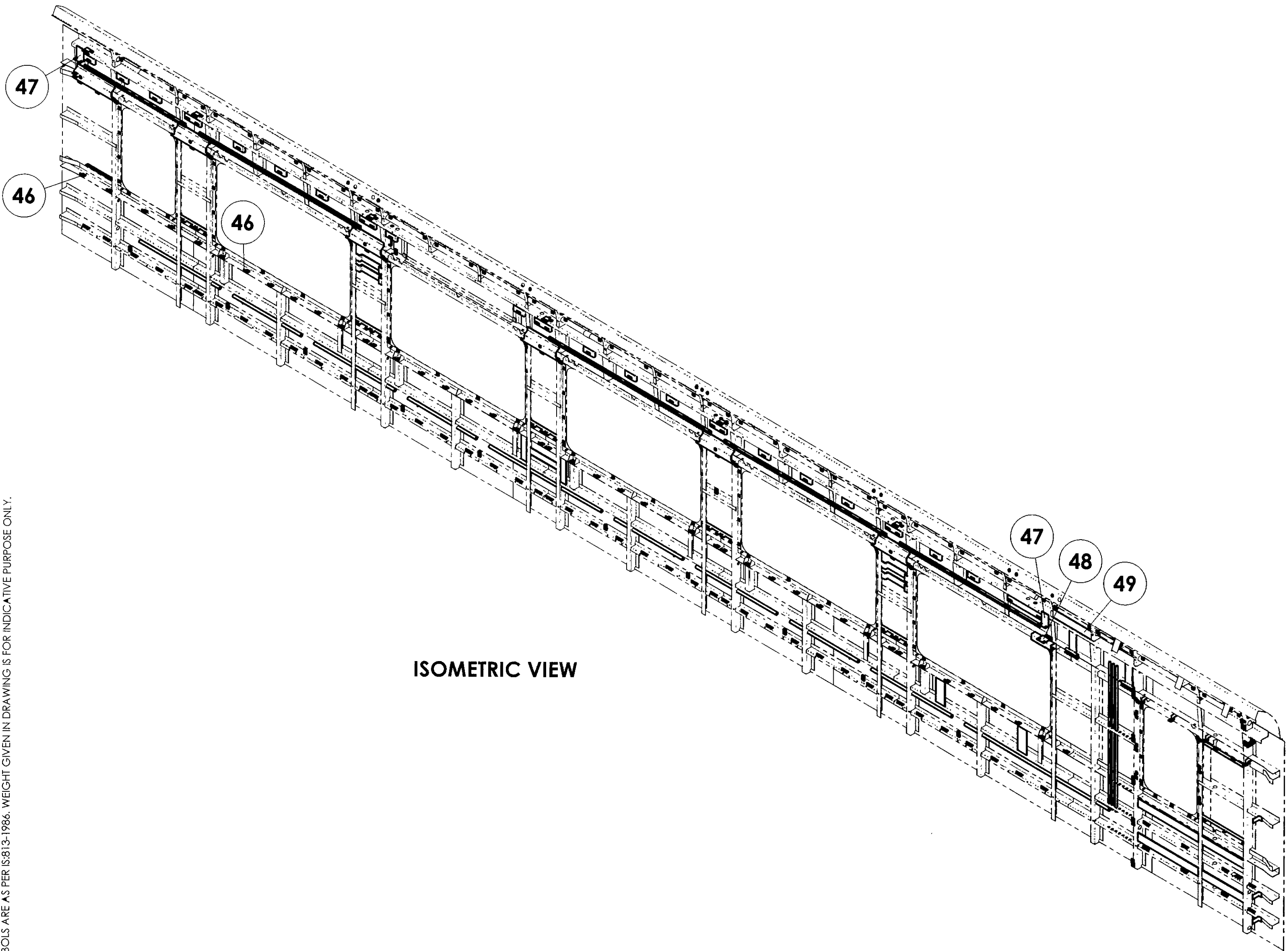
GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
WELDING PARTS ON SIDEWALL		SCALE	SSE/D	CHD	✓
		1:50			
		ALT.	ALTD	DRN	R.Vijay Rathinam
					A.Palanichamy
INDIAN RAILWAY STANDARDS		SHEET		TS/DTC	
INTEGRAL COACH FACTORY, CHENNAI - 600038		2 OF 3		88914028	
				A1	

88914028

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

① ROUGH CLEANED
①① BURRS REMOVED
①①① CHAMFERED

REVISIONS			
ALT	ZONE	DESCRIPTION	APPROVED & DATE
J		QTY OF ITEM-12 REVISED & SEC-HH UPDATED.	



ISOMETRIC VIEW

- NOTE:
1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
 2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
 3. ALL WELD SPATTERS SHALL BE GROUND.
 4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
 5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
 6. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
 7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
 8. ALL TAPPED HOLES TO BE CLOSED USING SUITABLE PVC PLUGS BEFORE PAINTING.
 9. # - ITEM-27.50&51 TO BE WELDED INLINE WITH ROOF FLANGE

1	ELEC CABLE TIE ROD		52	AAH15147		0.08	
1	CHANNEL FOR LUGGAGE RACK		51	AAH14099		0.96	
5	CHANNEL FOR LUGGAGE RACK		50	AAH14091		0.47	
2	FLAT FOR PARTITION	2x80x450	49		RDSO/SPEC C-K201 X2CrNi12	0.58	
1	BRACKET		48	AAH14421		0.15	
2	BRACKET		47	AAH14420		0.18	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

44	BRACKET		46	AAH14419		0.03	
6	BRACKET		45	AAE14580		0.11	
4	BACK PIECE FOR ALARM PUSH BUTTON		44	AAG14816		0.67	
12	EARTHING BLOCK		43	AAG14739		0.07	
1	ANGLE		42	AAE14133		0.32	
1	BRACKET		41	AAD14954		0.04	
1	BRACKET		40	AAD14951		0.33	
1	BRACKET		39	AAD14950		0.29	
2	CHANNEL ASSY		38	72414104		0.403	
1	BRACKET ASSEMBLY		37	72414102		0.093	
1	BRACKET ASSEMBLY		36	72414101		0.155	
3	ANGLE		35	AAD14920		0.06	
4	BRACKET ASSEMBLY		34	72414100		0.058	
1	BRACKET		33	AAD14922		0.03	
5	BRACKET		32	AAD14919		0.05	
5	BRACKET		31	AAD14921		0.03	
3	FLAT	5x40 x 320	30	-	RDSO/SPEC C-K201 X2CrNi12	0.77	
3	FLAT	5x40 x 108	29	-	RDSO/SPEC C-K201 X2CrNi12	0.26	
3	FLAT	5x100 x 222	28	-	RDSO/SPEC C-K201 X2CrNi12	0.89	
16	CHANNEL FOR LUGGAGE RACK		27	AAD14479		0.37	
1	BACKPIECE FOR LUGGAGE RACK		26	AAH14090		0.88	
5	BACKPIECE FOR LUGGAGE RACK		25	AAD14480		0.61	
2	FLAT	5x 100 x 233	24		RDSO/SPEC C-K201 X2CrNi12	0.93	
1	BACK-PIECE	5x100 x 536	23	-	RDSO SPEC C-K201 X2 Cr Ni 12	2.14	
2	BACK PIECE	5 x 80 x 490	22		RDSO/SPEC C-K201 X2CrNi12	2.51	
2	BACK PIECE	5x80x480	21		RDSO SPEC C-K201 X2 Cr Ni 12	2.18	
2	FLAT	5x40x233	20		RDSO/SPEC C-K201 X2CrNi12	0.56	
1	FLAT	5x40x340	19		RDSO/SPEC C-K201 X2CrNi12	0.82	
1	CONDUIT	1 x OD25 x 1620	18		AISI 304	0.98	
1	CONDUIT	1 x OD25 x 1250	17		AISI 304	0.75	
4	SUPPORT		16	AAD14395		0.05	
4	CONDUIT	1 x OD 25x 760	15		AISI 304	0.46	
4	CONDUIT	1 x OD 25 x 900	14		AISI 304	0.54	
2	CONDUIT	1 x OD16 x 1570	13		AISI 304	0.31	
3	CONDUIT	1 x OD16 x 1400	12		AISI 304	0.27	
2	CONDUIT	1 x OD16 x 1130	11		AISI 304	0.22	
4	CONDUIT	1 x OD16 x 1804	10		AISI 304	0.35	
1	BRACKET ASSEMBLY FOR LUGGAGE RACK		9	88914037		0.634	
1	LUGGAGE RACK BRACKET		8	72414096		2.312	
5	LUGGAGE RACK BRACKET ASSY		7	72714015		2.098	
5	BRACKET		6	AAD14447		0.24	
52	ANGLE		5	AAD14291		0.04	
14	STUD	M5x16	4	DIN-976-1 A2-70 TY-B		0.00	
56	STUD PLATE		3	72714019		0.006	
25	STUD PLATE		2	72714020		0.010	
125	WELDING PIN ASSEMBLY		1	49516008		0.005	
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:

SCALE: 1:50

CHD

ALT. J

ALTD DRN

R.Vijay Rathinam

A.Palanichamy

WELDING PARTS ON SIDEWALL

INDIAN RAILWAY STANDARDS
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 3 OF 3

TS/DTC

88914028


A1

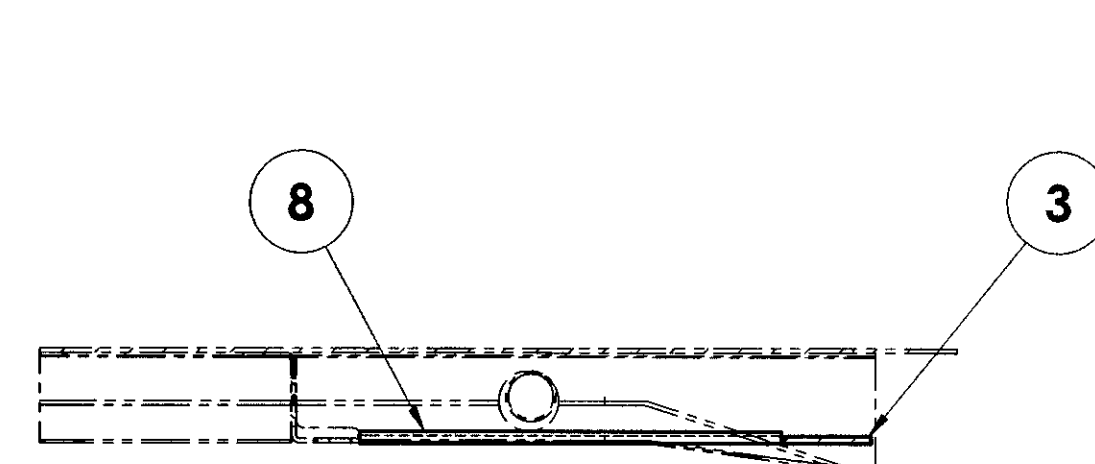
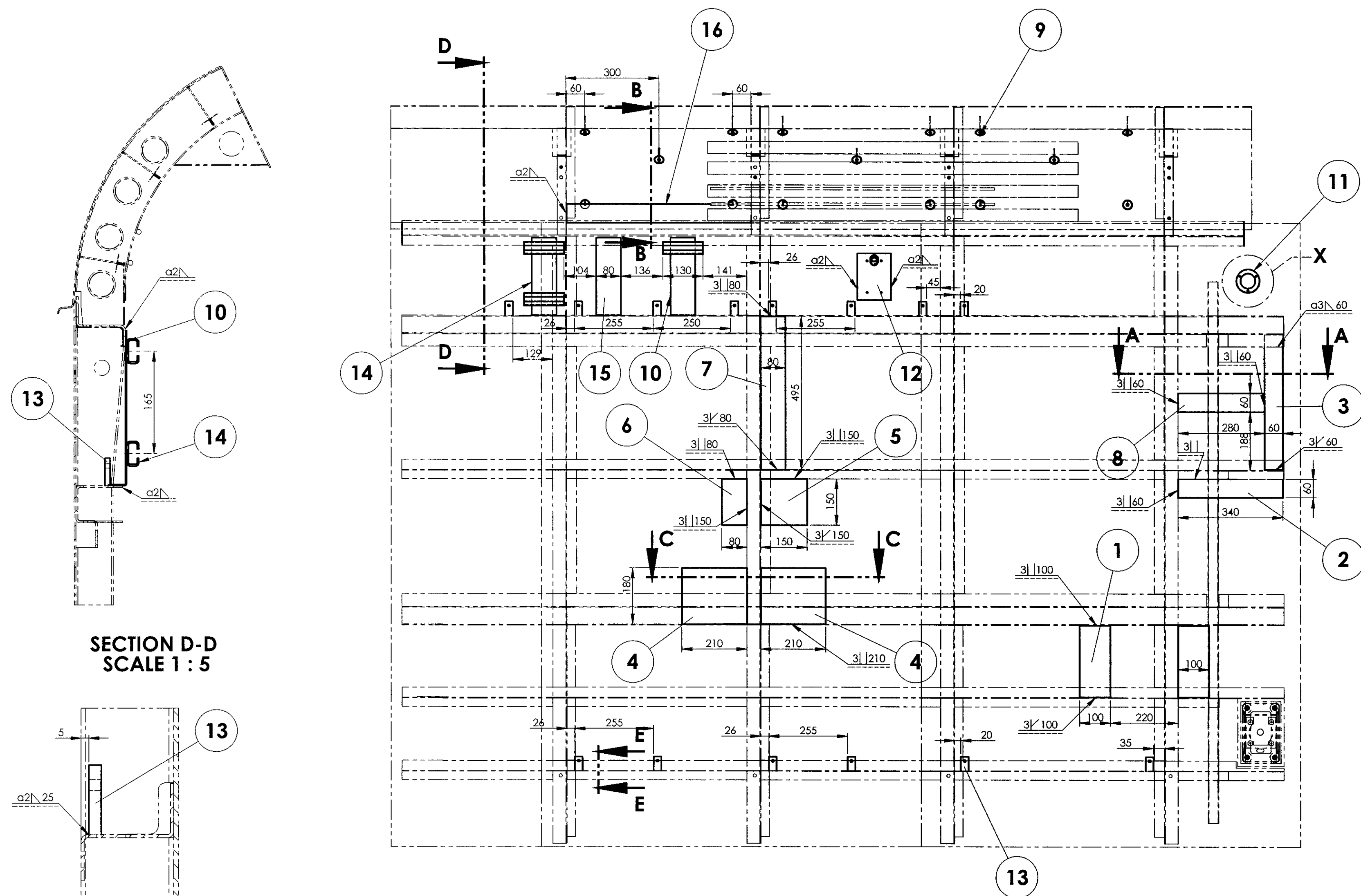
REF.DRG.NO.

07-08-2023	14-08-2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

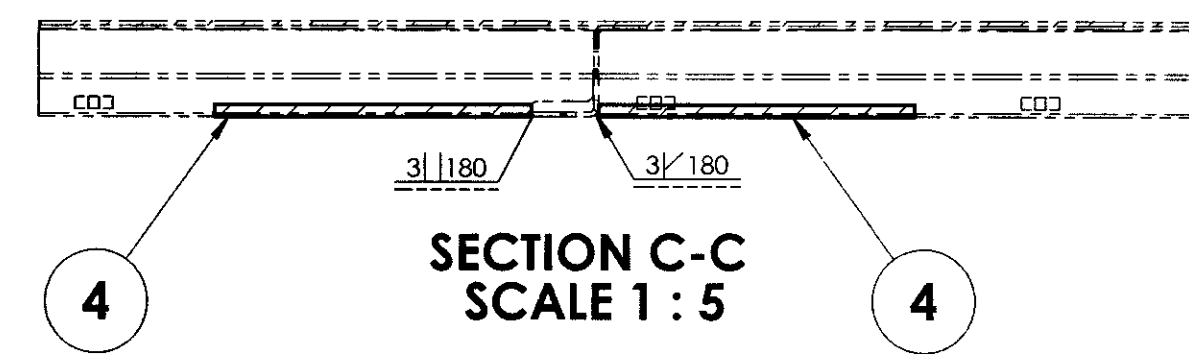
▽ ROUGH MACHINED
▽▽ FINISH MACHINED
▽▽▽ FINE FINISH MACHINED

① ROUGH CLEANED
①② BURRS REMOVED
③ CHAMFERED

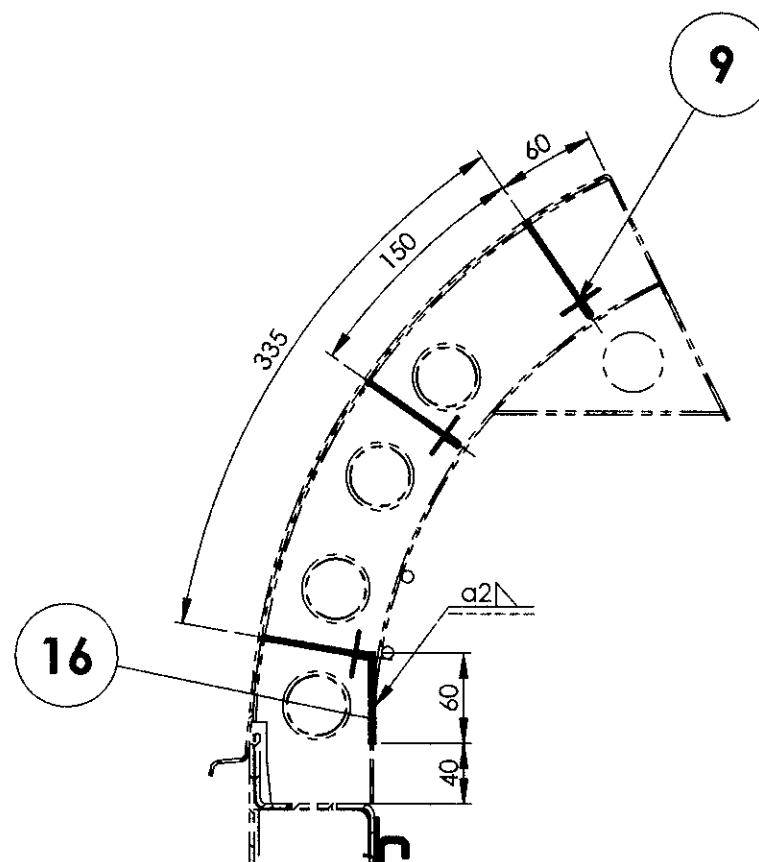
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
C		ITEM-15 & 16 ADDED.	



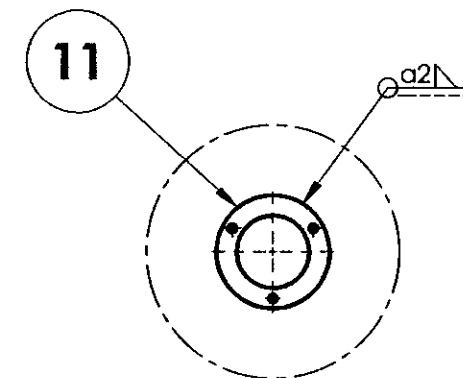
SECTION A-A
SCALE 1 : 5



SECTION C-C
SCALE 1 : 5

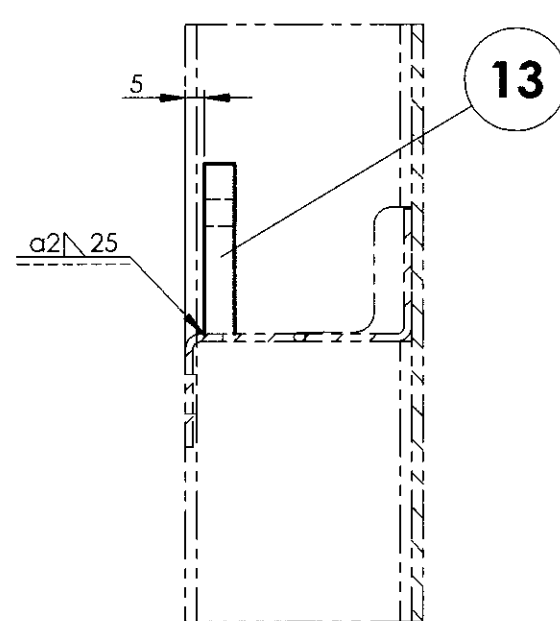


SECTION B-B
SCALE 1 : 5



DETAIL X
SCALE 1 : 5

SECTION D-D
SCALE 1 : 5



SECTION E-E
SCALE 1 : 2

NOTE:

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

1	BACK PIECE	3x60x598	16		SS-409M	0.86	
1	CHANNEL		15	AAD14544		0.35	
1	TCAS CHANNEL ASSY		14	88914040		0.884	
14	EARTHING BLOCK		13	AAG14739		0.07	
1	BACKPIECE FOR PACIL		12	AAA14904		0.455	
1	BACK PIECE FOR LED INDICATOR		11	AA815088		0.12	
1	CHANNEL ASSY		10	72614103		0.620	
15	WELDING PIN ASSEMBLY		9	49514008		0.005	
1	FLAT	8x 60 x 280	8		SS-409M	1.08	
1	FLAT	8x 80 x 495	7		SS-409M	2.53	
1	FLAT	8x 80 x 150	6		SS-409M	0.77	
1	FLAT	8x 150 x 150	5		SS-409M	1.44	
2	FLAT	8x 180 x 210	4		SS-409M	2.42	
1	FLAT	5x 60 x 434	3		RDSO/SPEC C-K201 X2CrNi12	1.05	
1	FLAT	5x 60 x 340	2		RDSO/SPEC C-K201 X2CrNi12	0.82	
2	FLAT	5x 100 x 233	1		RDSO/SPEC C-K201 X2CrNi12	0.93	
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:	
WELDING PARTS ON SIDEWALL		SCALE 1:10		SSE/D	<i>For</i>
				CHD	
				ALT.	R.Vijay Rathinam
				DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		TS/DTC	
INTEGRAL COACH FACTORY, CHENNAI - 600038		88914029		AT	

14-08-2021	14-08-2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

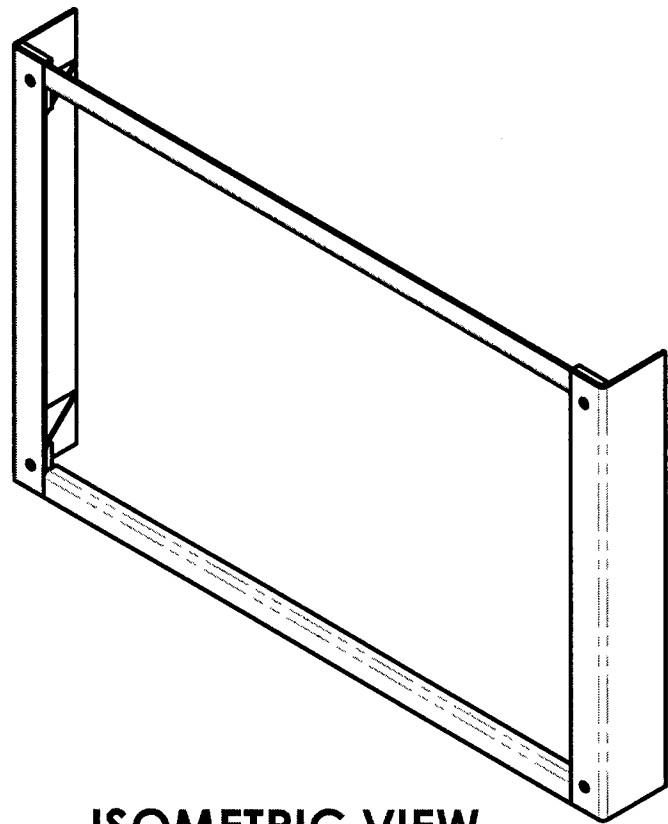
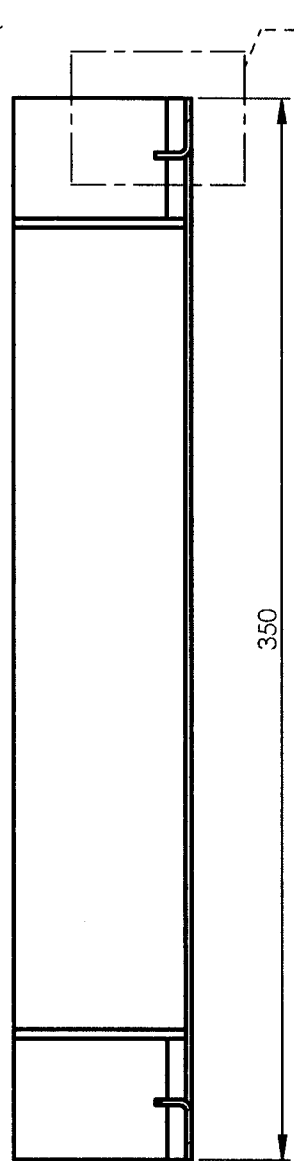
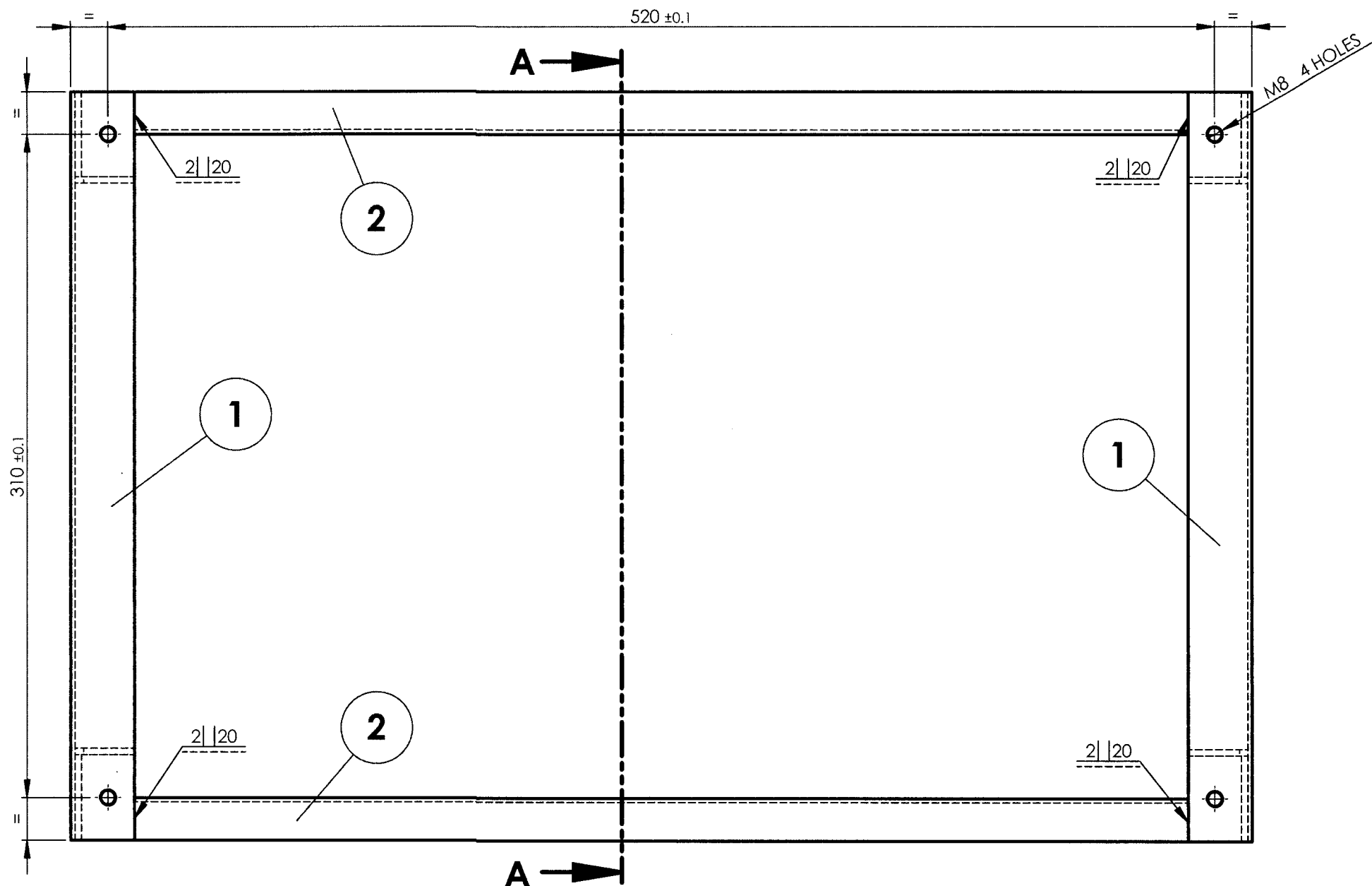
REF.DRG.NO.

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88914032

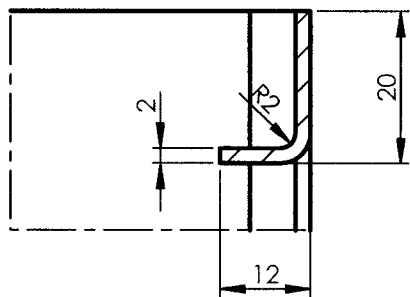
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

SECTION A-A



DETAIL B
SCALE 1 : 1

NOTE:

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

2	ANGLE	2x28x495	2		RDSO SPEC C-K201 X2 Cr Ni 12	0.23	
2	ANGLE ASSEMBLY FOR CCMS		1	88914024		0.62	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.: 204606.59		WT/ASSY IN Kgs:	
FRAME ARRANGEMENT FOR CCMS					SCALE 1:2.5	SSE/D CHD	
					ALT	ALTD	
					DRN	DRN	A.Palanichamy
					TS/DTC		
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	88914032	A2

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

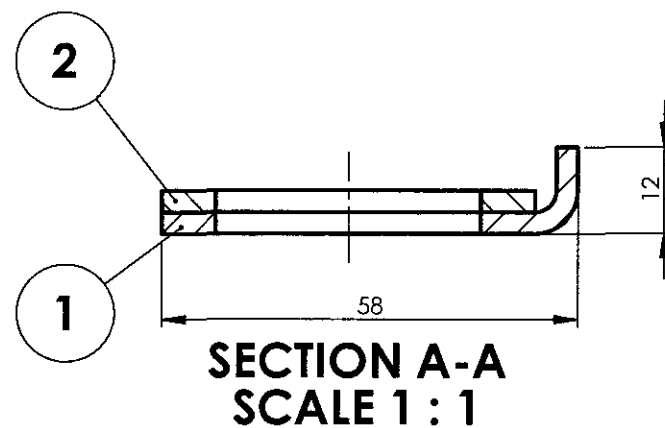
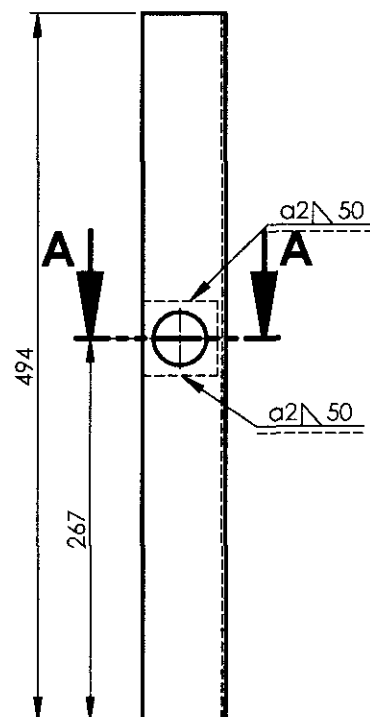
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DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

88914033

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

SECTION A-A
SCALE 1 : 1

NOTE:

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

1	BACK PIECE		2	AAC14080		0.04	
1	ANGLE		1	AAH14064		0.75	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.:70070.77		WT/ASSY IN Kgs:	
BACK PIECE FOR FUR PARTITION					SCALE 1:2	SSE/D	A-7
						CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS					TS/DTC		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					88914033		A3

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

REF.DRG.NO.-

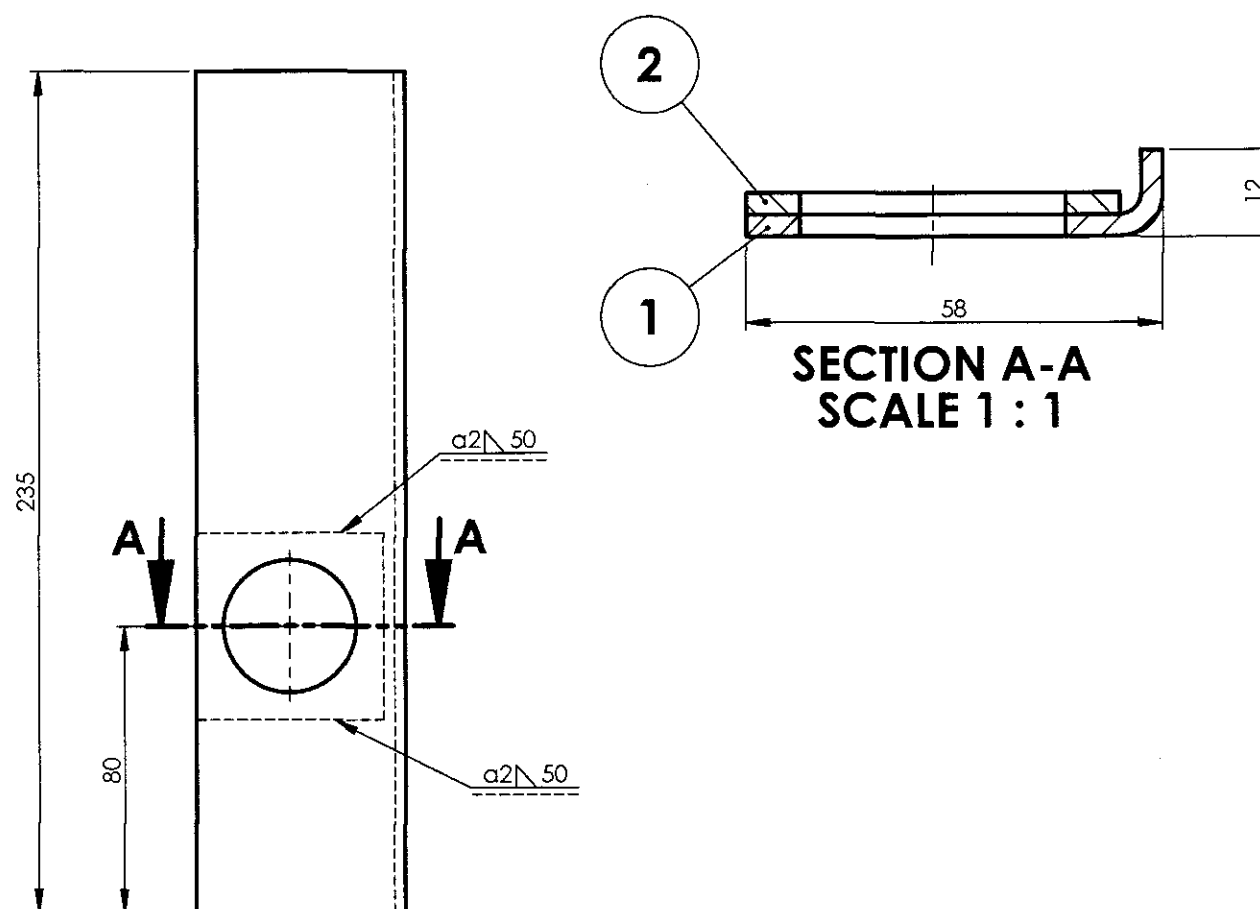
23.12.2021	23.12.2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

88914034

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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NOTE:

1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
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7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	BACK PIECE		2	AAC14080		0.04	
1	ANGLE		1	AAH14063		0.34	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.:34811.24		WT/ASSY IN Kgs:	
BACK PIECE FOR FUR PARTITION					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS						DRN	A.Palanichamy
					TS/DTC		
					88914034		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		A3

REF.DRG.NO.:-

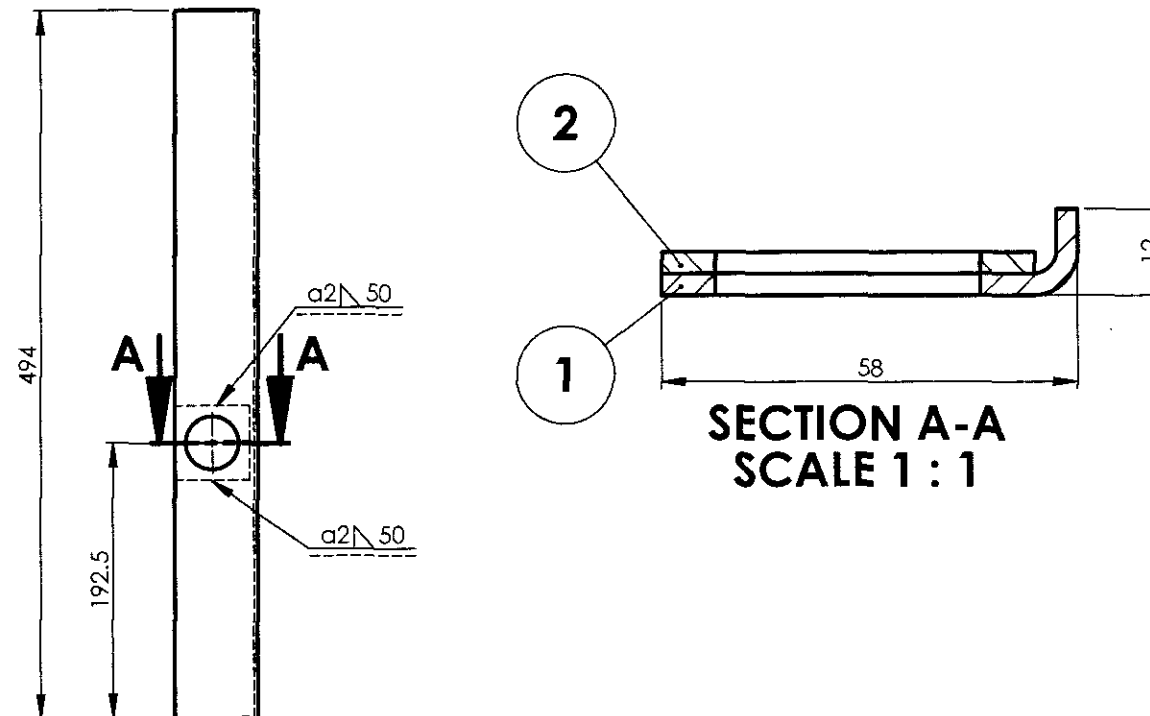
23.12.2021	23.12.2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

88914035

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
------	------	-------------	-----------------

SECTION A-A
SCALE 1 : 1

NOTE:

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

1	BACK PIECE		2	AAC14080		0.04	
1	ANGLE		1	AAH14065		0.75	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-4 Body Side Walls

SURFACE AREA IN Sq.m.:70070.77

WT/ASSY IN Kgs:

BACK PIECE FOR FUR PARTITION

SCALE 1:2	SSE/D CHD	A-5
ALT.	ALTD	
	DRN	A.Palanichamy

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

TS/DTC

88914035

A3

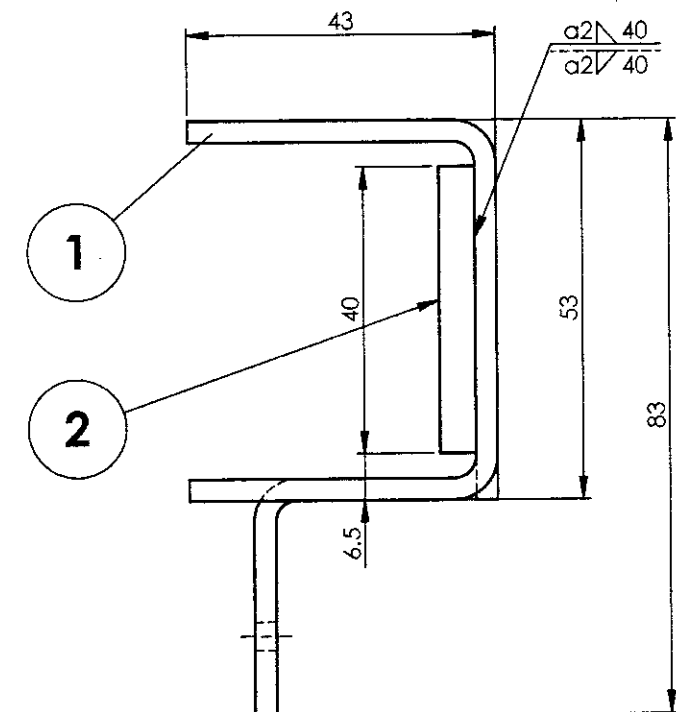
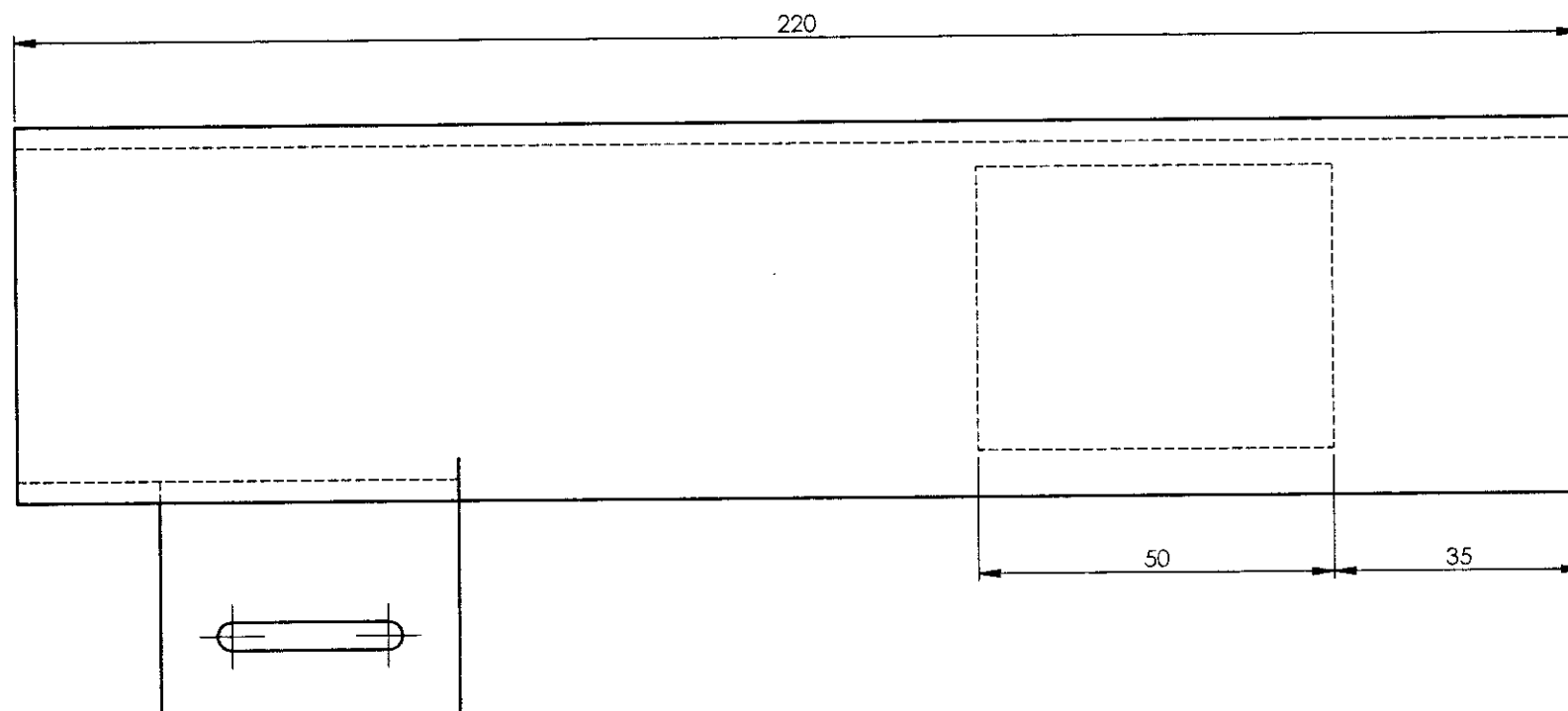
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23.12.2021	23.12.2021	Sh
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

88914036

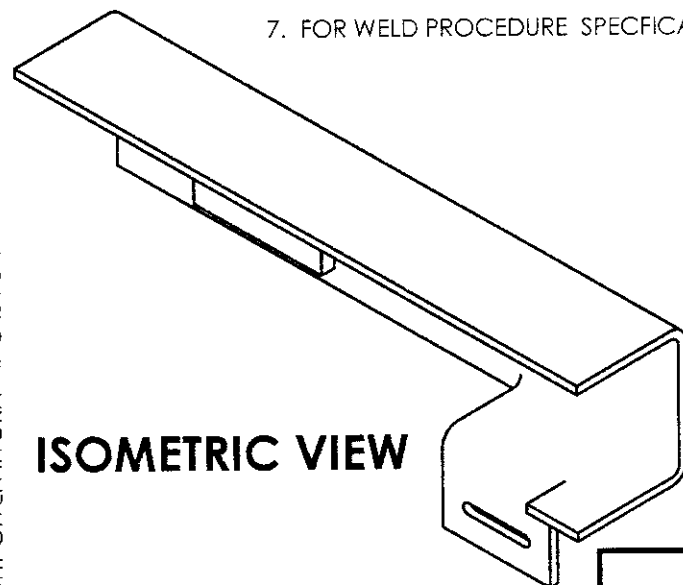
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①8 CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			




NOTE:

1. ALL WELDING SHALL BE OF TIG UNLESS OTHERWISE SPECIFIED.
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6. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.



ISOMETRIC VIEW

REF.DRG.NO.-

1	BACK PIECE	5 x 40 x50	2		RDSO/SPEC C-K201 X2CrNi12	0.08	
1	BRACKET FOR LUGGAGE RACK		1	AAH14087		0.55	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls		SURFACE AREA IN Sq.m.:0.054			WT/ASSY IN Kgs:		
BRACKET ASSEMBLY FOR LUGGAGE RACK					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	A.Palanichamy
						DRN	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1	TS/DTC		
					88914036		A3
INTEGRAL COACH FACTORY, CHENNAI - 600038							
DATE OF LATEST ALT.				11-01-2022			
AME/SME							

88914037

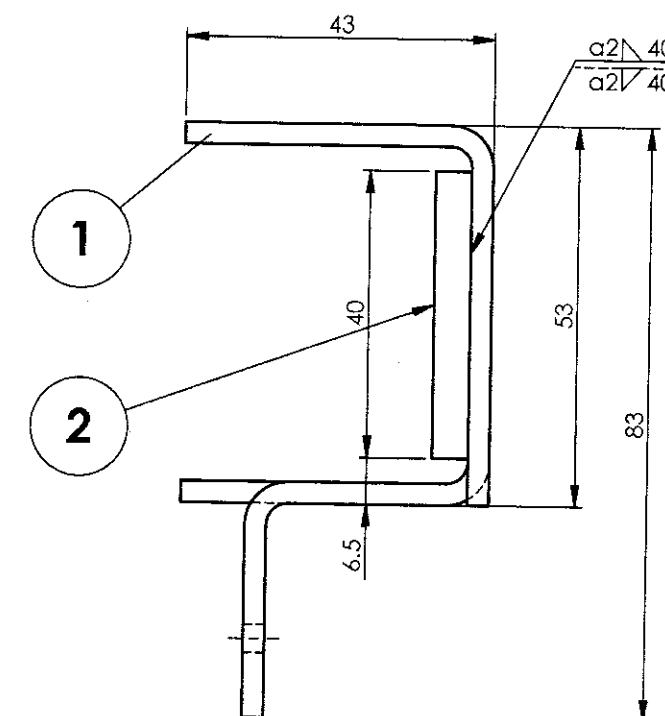
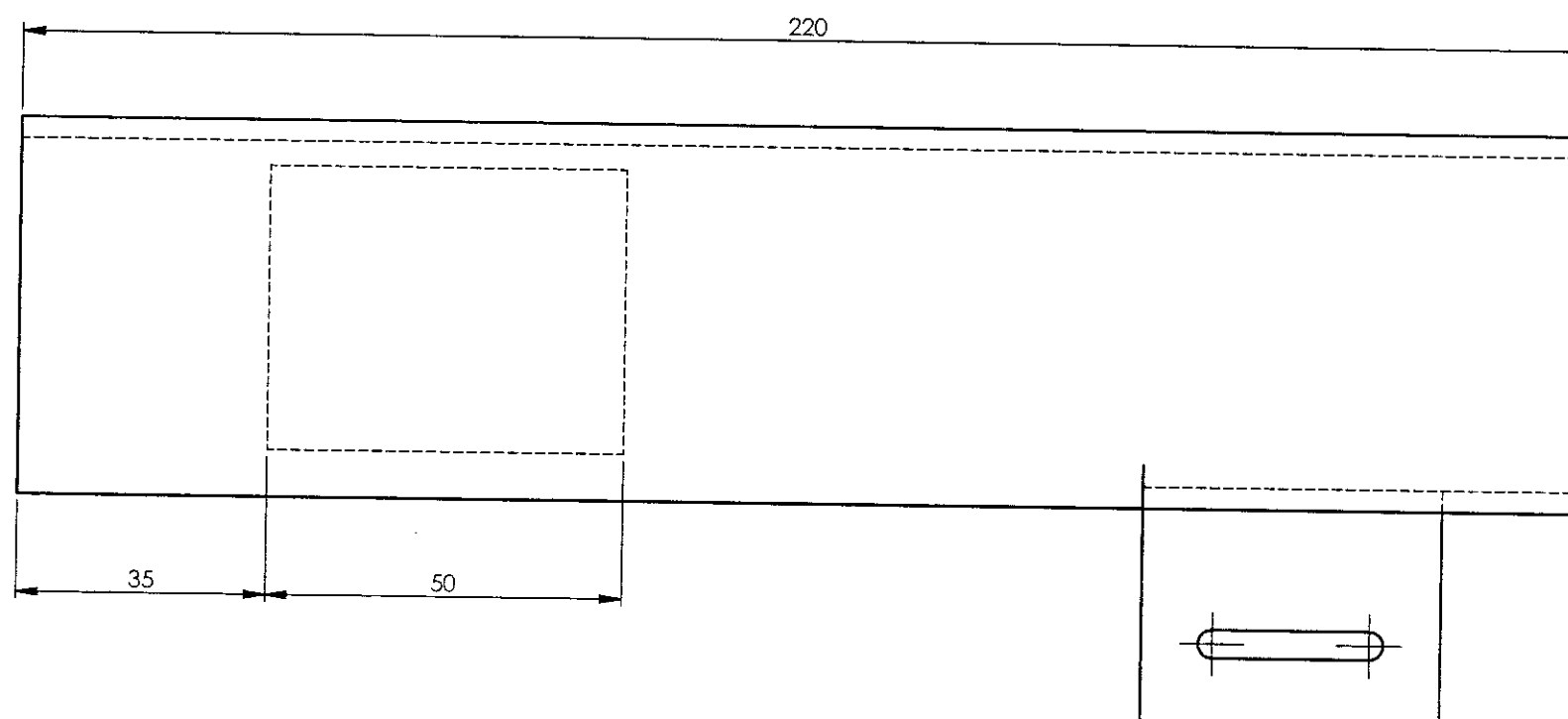
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

ALT.

ZONE

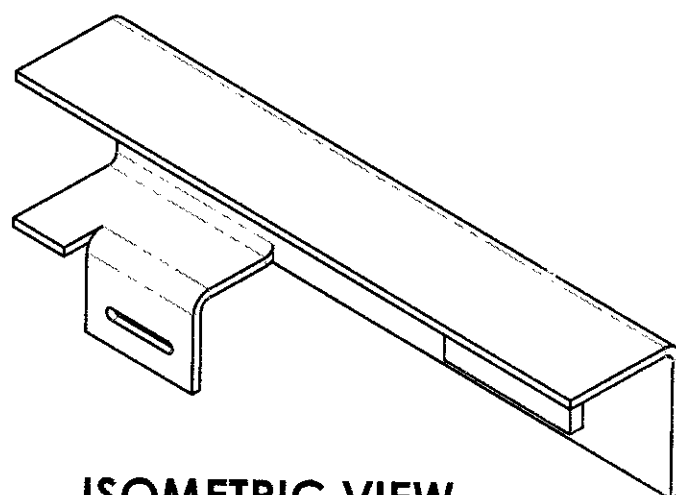
REVISIONS

DESCRIPTION

APPROVED &
DATE

NOTE:

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2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
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7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.



ISOMETRIC VIEW

REF.DRG.NO.-

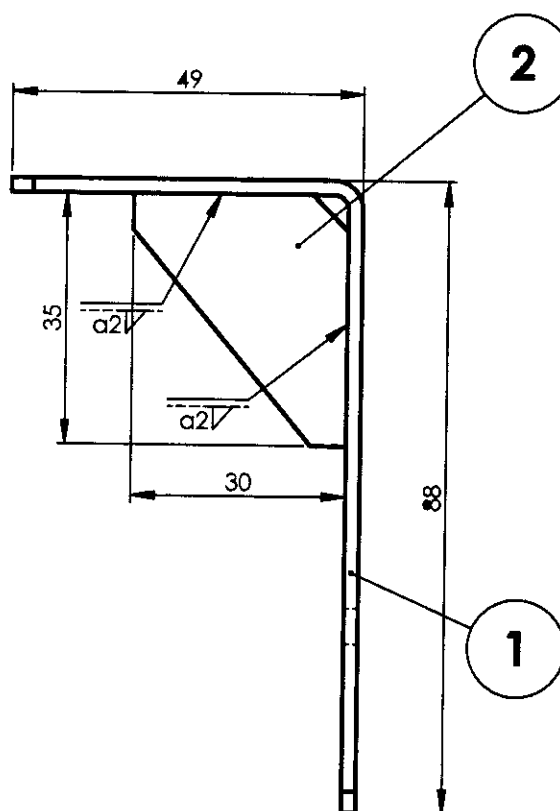
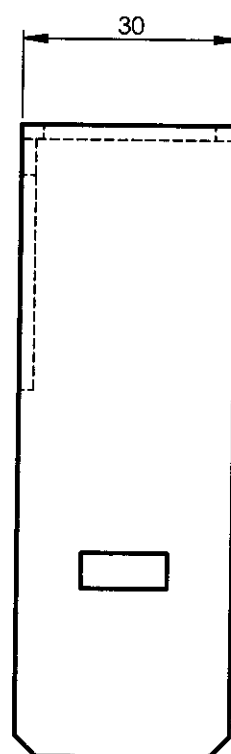
11-01-2022	AME/SME
DATE OF LATEST ALT.	DATE OF FIRST ISSUE

1	BACK PIECE	5 x 40 x 50	2		RDSO/SPEC C-K201 X2CrNi12	0.08	
1	BRACKET FOR LUGGAGE RACK		1	AAH14088		0.55	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls				SURFACE AREA IN Sq.m.:0.054		WT/ASSY IN Kgs:	
BRACKET ASSEMBLY FOR LUGGAGE RACK					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS					TS/DTC		
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	88914037	A3

88914038


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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



NOTE:

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2. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC. CK-201 SHALL BE USED FOR WELDING.
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4. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
5. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
6. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
7. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	RIB		2	AAH14443		0.01	
1	ANGLE		1	AAH14442		0.06	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4 Body Side Walls			SURFACE AREA IN Sq.m.:0.010		WT/ASSY IN Kgs:		
BRACKET COMPLETE					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	A.Palanichamy
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1	TS/DTC		
INTEGRAL COACH FACTORY, CHENNAI - 000038					88914038		A3

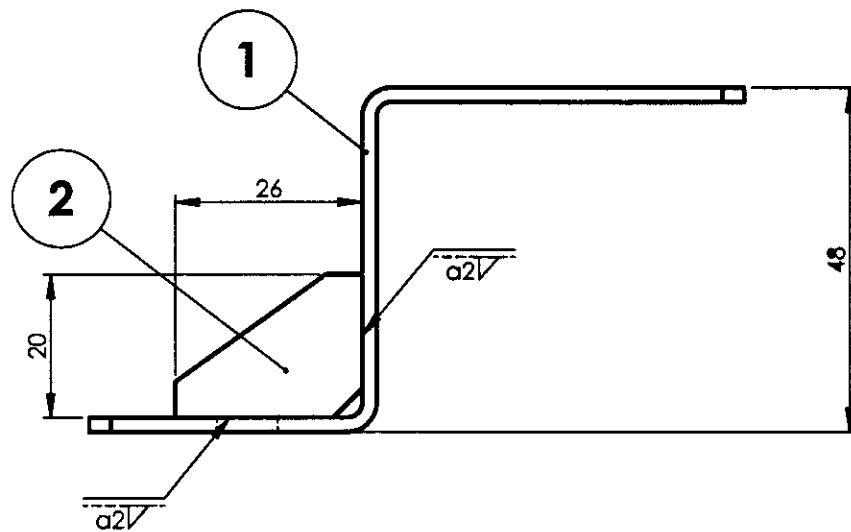
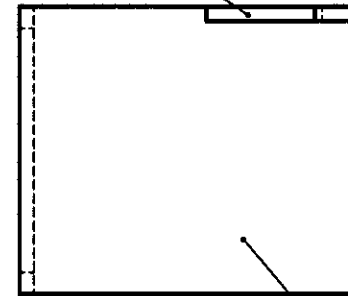
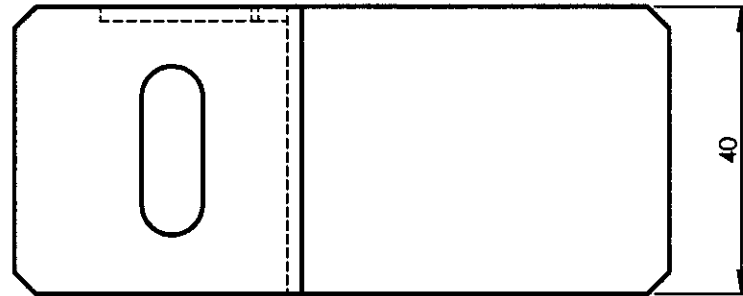
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	26-04-2022	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

88914039

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



NOTE:

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

1	RIB		2	AAD14924		0.01	
1	BRACKET		1	AAH14444		0.08	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-4 Body Side Walls

SURFACE AREA IN Sq.m.:0.012

WT/ASSY IN Kgs:

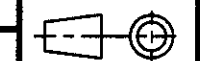
BRACKET ASSEMBLY

SCALE
1:1SSE/D
CHDALT.
DRNALT
DRN

A.Palanichamy

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET
1 OF 1

TS/DTC

88914039

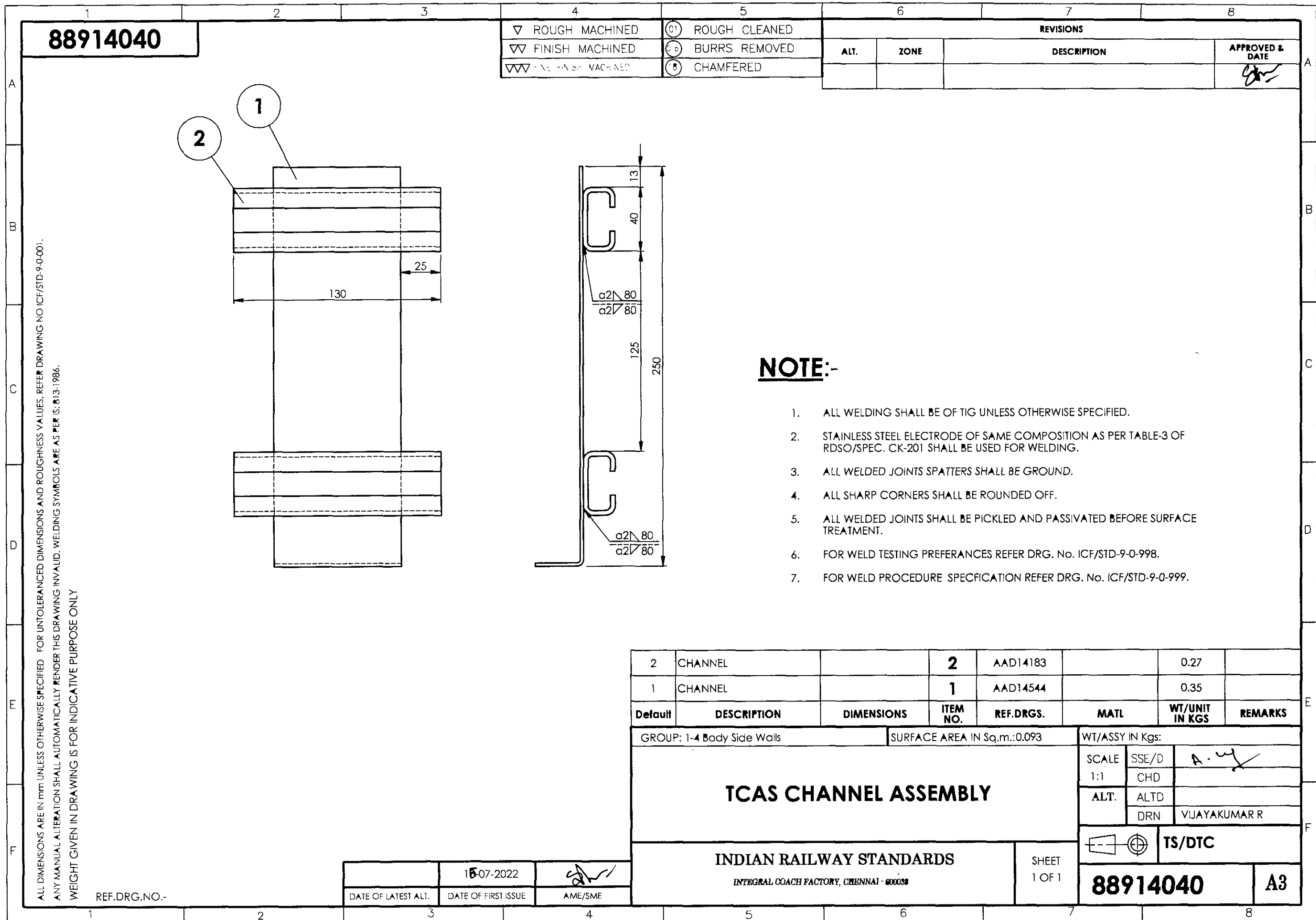
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REF.DRG.NO.-

DATE OF LATEST ALT.

DATE OF FIRST ISSUE

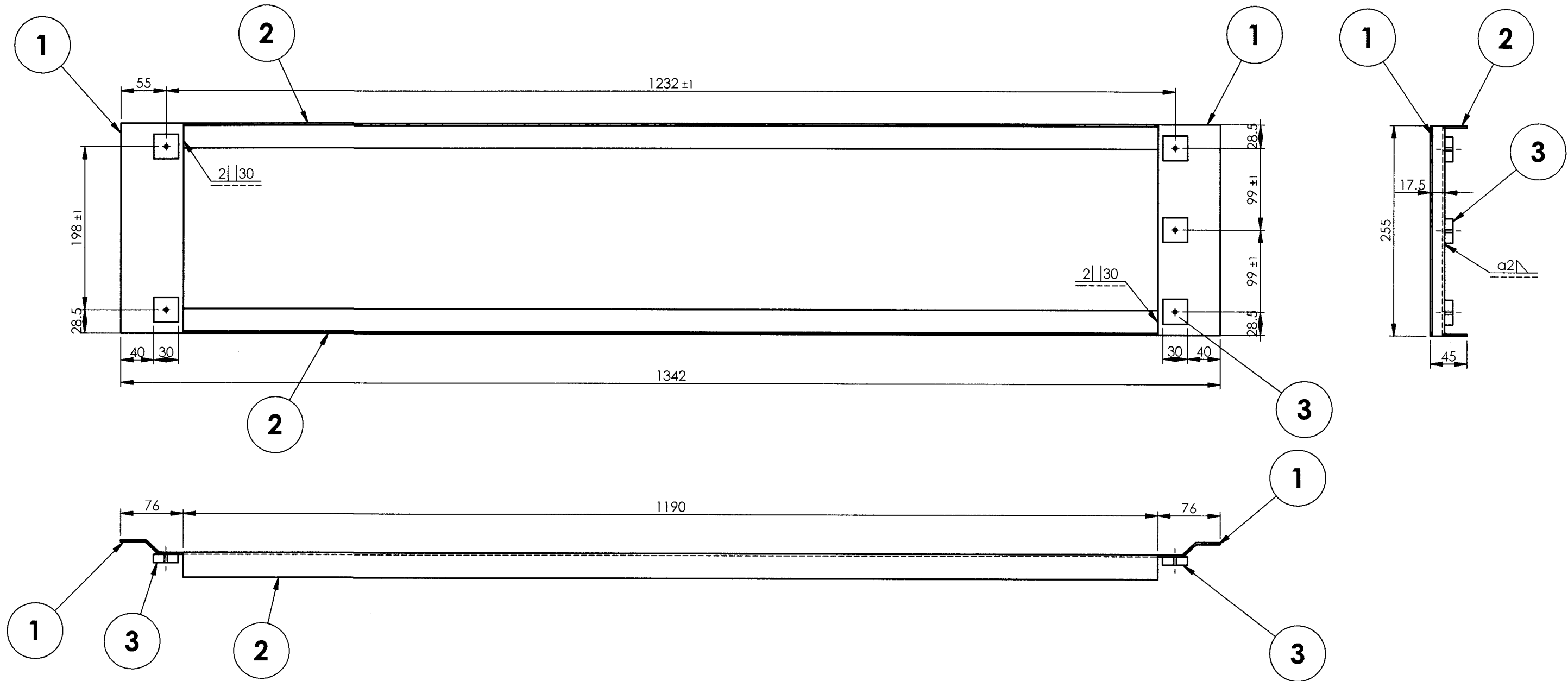
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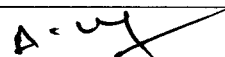
▽ ROUGH MACHINED	01 ROUGH CLEANED
▽▽ FINISH MACHINED	01b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	18 CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



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4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT
5. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
6. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

5	FLAT		3	AAC14952		0.07	
2	ANGLE		2	AAC14682		1.33	
2	BRACKET		1	AAC14681		0.42	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.: 0.381			WT/ASSY IN Kgs:		
FRAME ASSY FOR DESTINATION BOARD					SCALE 1:5	SSE/D	
						CHD	
					ALT	ALTD	
						DRN	A.Muthukumar
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
89114007		A2					
SHEET 1 OF 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.-

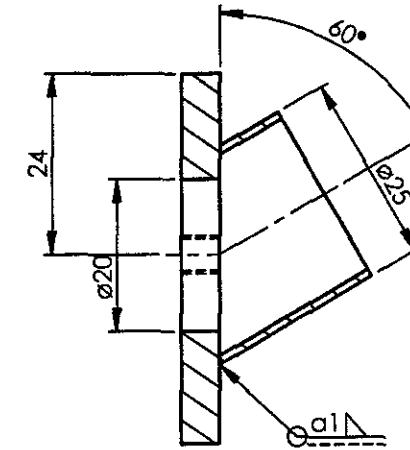
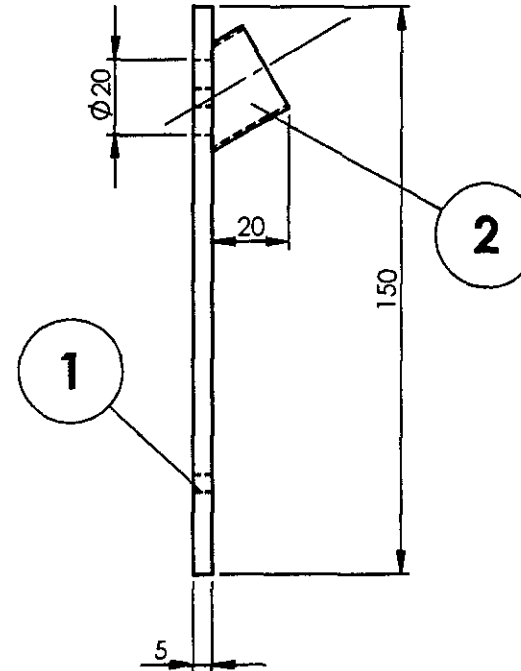
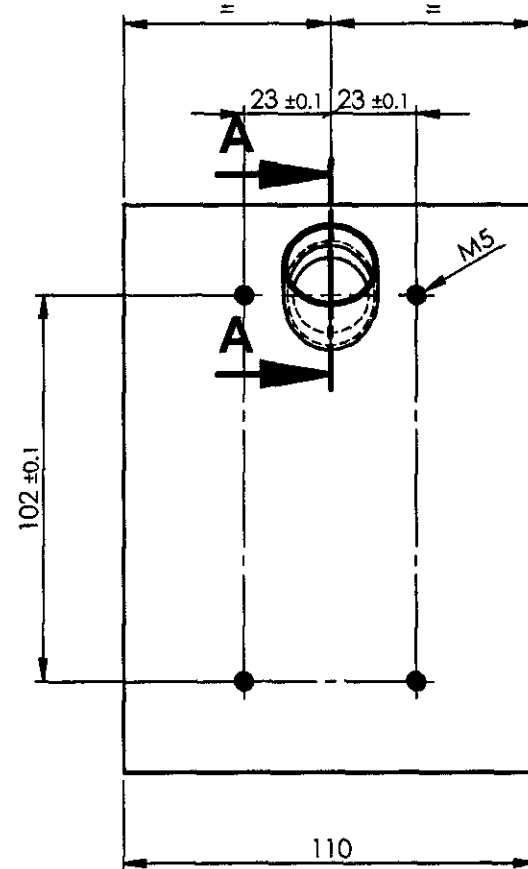
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DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

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 PACILSCALE
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.

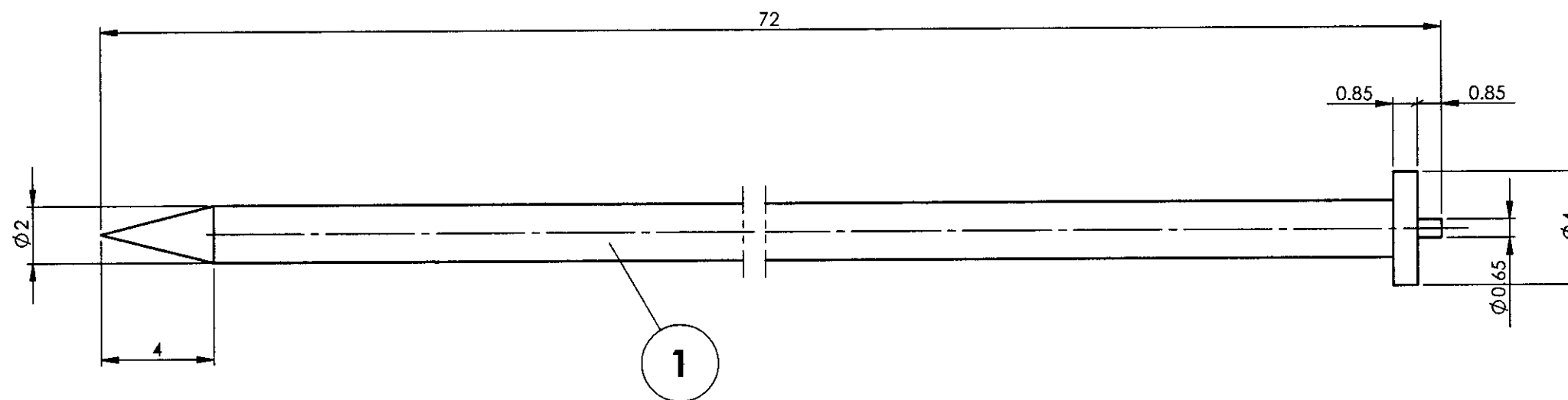
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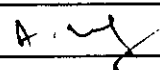
08-2024	15-04-2013	<i>sd</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16493

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DRAWING REVISED.	



1	WELDING PIN	Ø 4 x 72	1		IS:6528 X04Cr18Ni10	0.002	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF CONSTRUCTION				SURFACE AREA IN Sq.m.: 0.000		WT/ASSY IN Kgs:	
WELDING PIN					SCALE 5:1	SSE/D	
						CHD	
					ALT. a	ALTD	A.Palanichamy
						DRN	3D: A.Palanichamy 2D: P.Murugan
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16493		A3


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

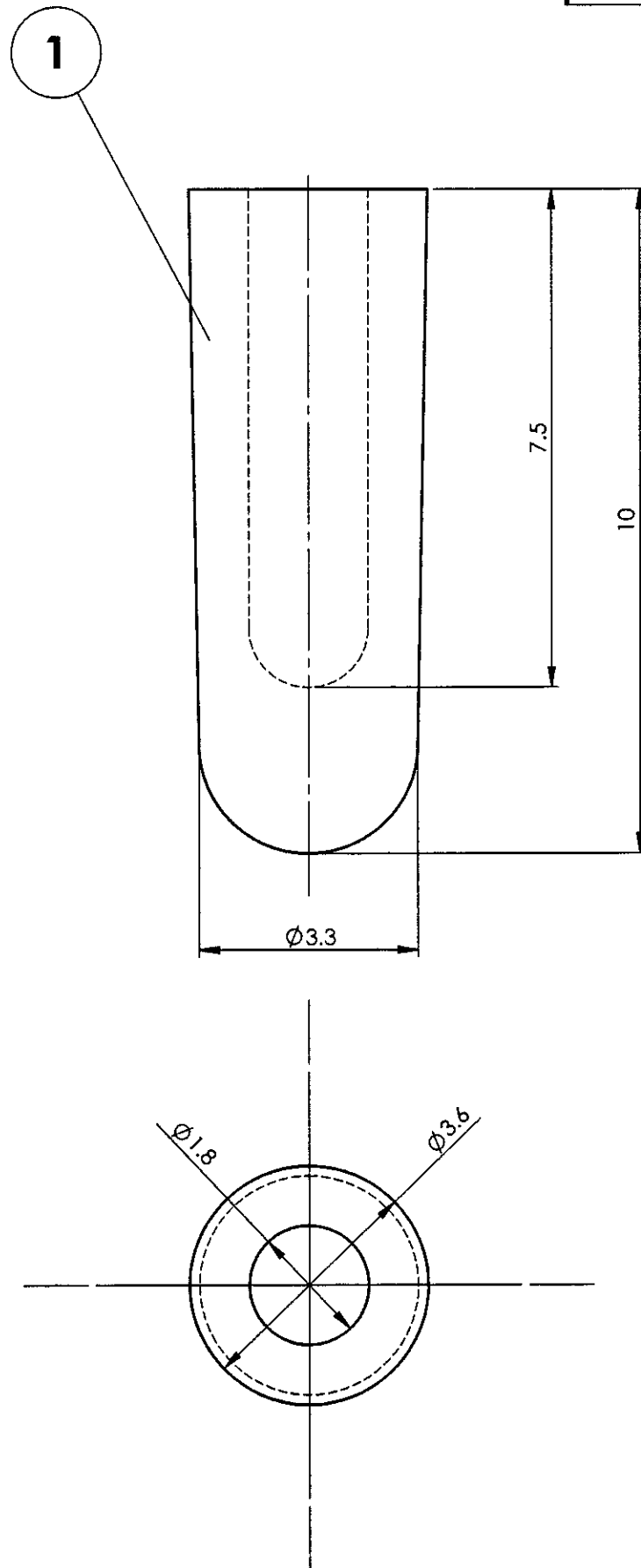
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06-02-2024	19-07-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME


AAA16494

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

REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		DRAWING REVISED.		



1	CAP	Ø3.6x10	1		IS:5831	0.000	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF CONSTRUCTION		SURFACE AREA IN Sq.m.:0.000			WT/ASSY IN Kgs:		
CAP					SCALE	SSE/D	
					10:1	CHD	
					ALT.	ALTD	A.Palanichamy
					a	DRN	3D:A.Palanichamy 2D:P.Murugan
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600036				SHEET 1 OF 1			
					AAA16494		A3

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


REF.DRG.NO.mi001576, ITEM-2

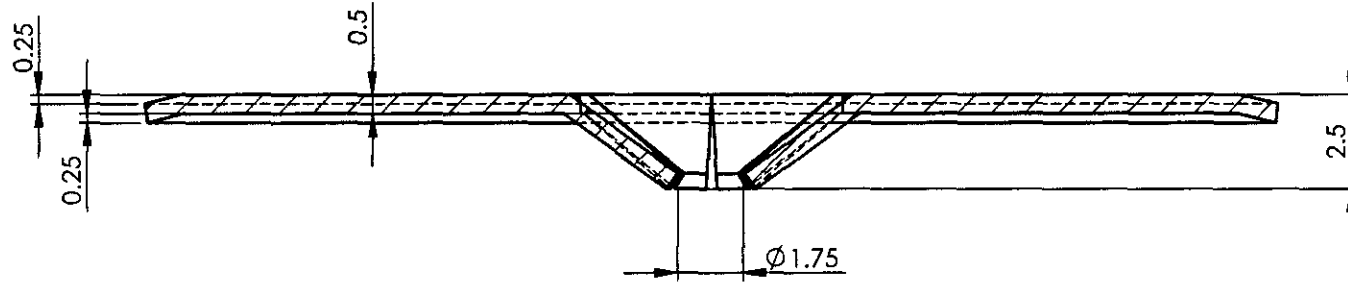
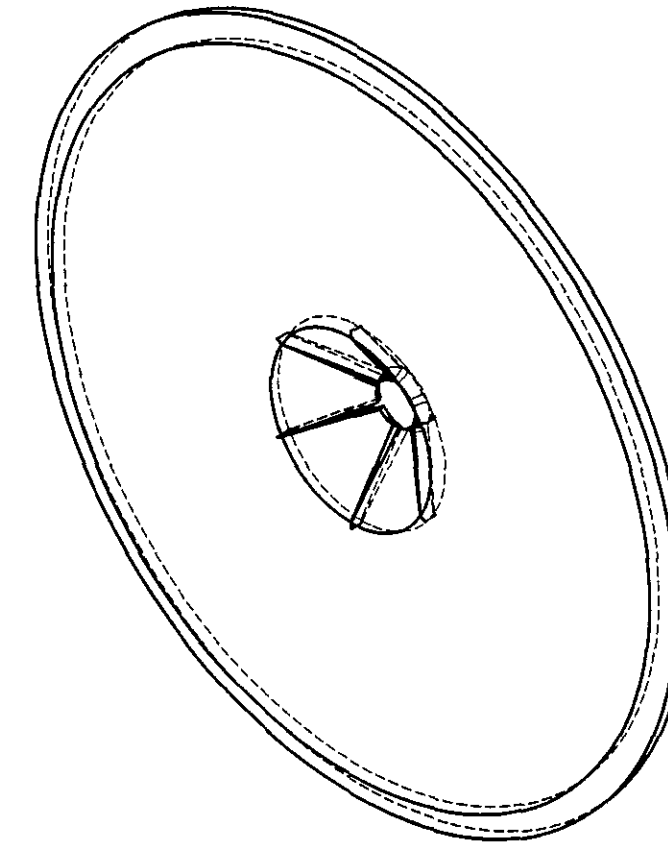
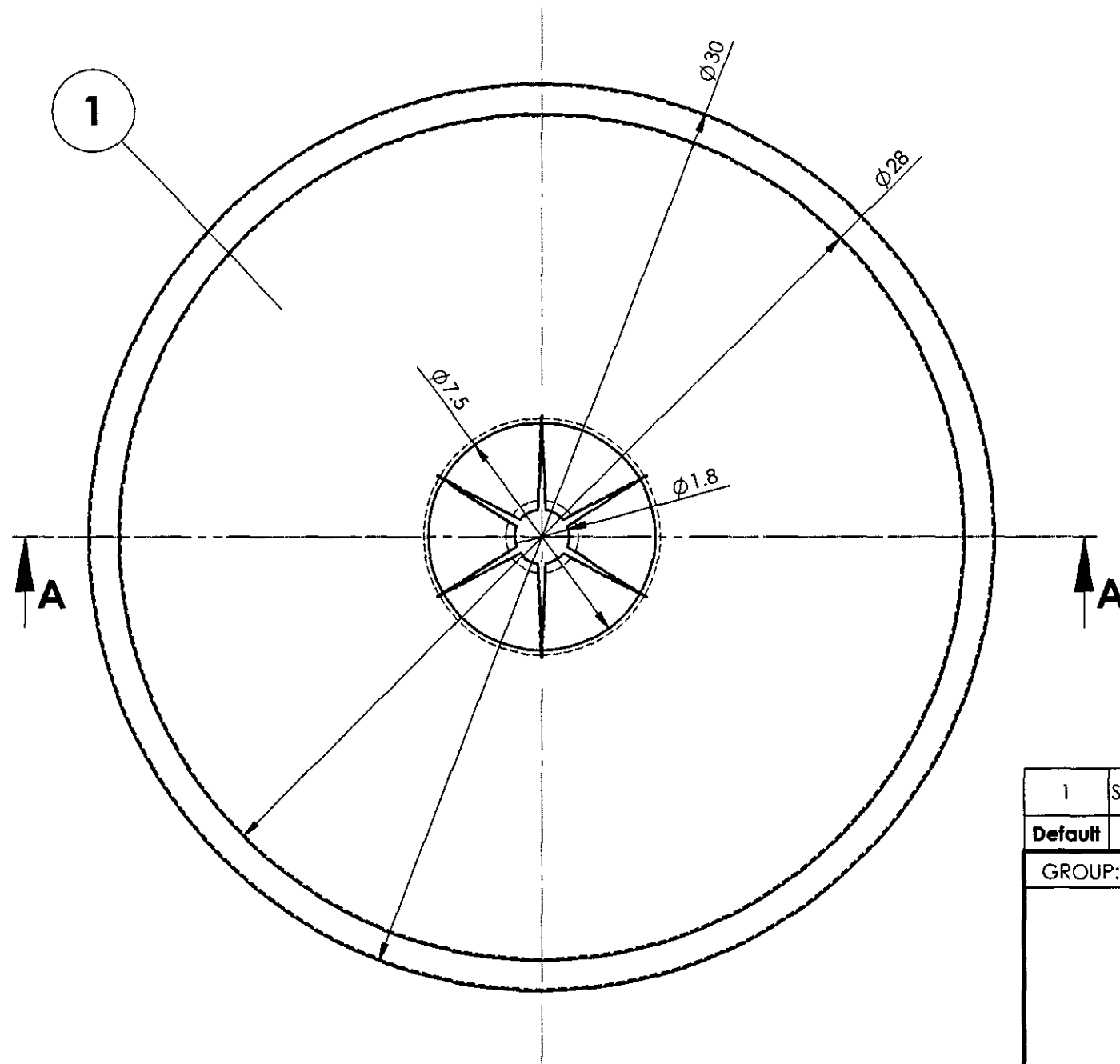
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

AAA16495


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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DRAWING REVISED.	


SECTION A-A
SCALE 5 : 1

ISOMETRIC VIEW

1	SERRATED SPRING WASHER	DIA 30 x 0.5 THICK	1		IS:4072 Gr.65C6	0.003	COATING TO MDT5057
Default	DESCRIPTION	DIMENSIONS	ITEM NO	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF CONSTRUCTION				SURFACE AREA IN Sq.m.:0.001		WT/ASSY IN Kgs:	
SERRATED SPRING WASHER					SCALE 2:1	SSE/D CHD	
					ALT. a	ALTD DRN	A.Palanichamy
							3D:A.Palanichamy 2D:P.Murugan
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAA16495	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	


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

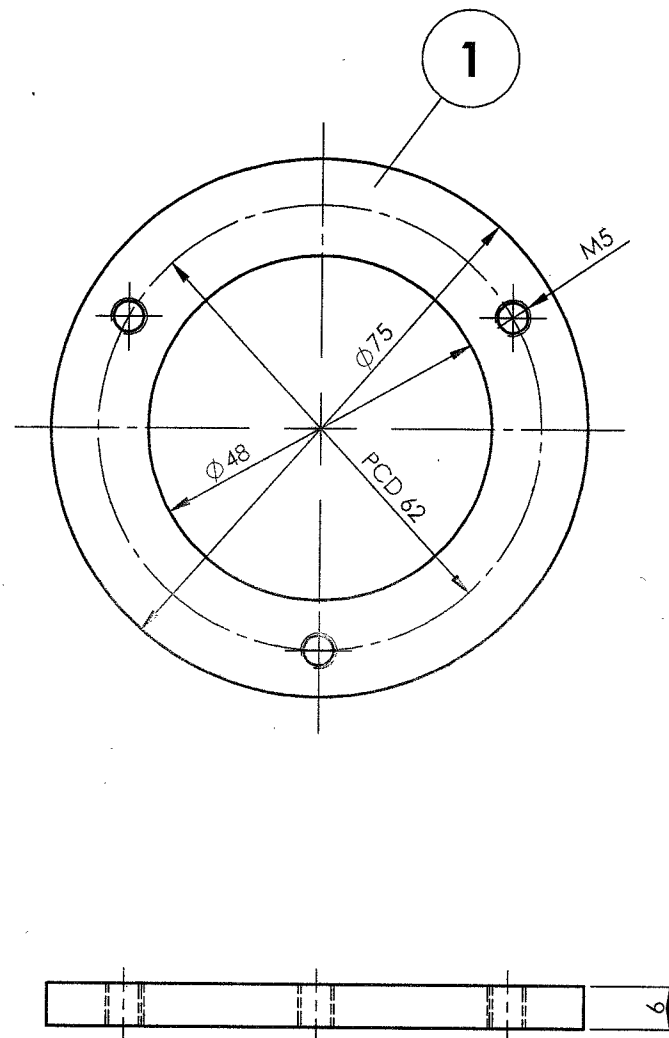
REF.DRG.NO.mi001576, ITEM-3

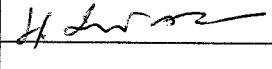
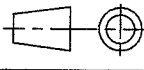
06-02-2024	19-07-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAB15088

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

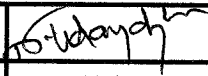
REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		
a		HOLE DIA CHANGED FROM 36 TO 48mm.		



1	BACK PIECE FOR LED INDICATOR	DIA 75 x 6	1		RDSO/SPEC C-K201 X2CrNi12	0.12	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION				SURFACE AREA IN Sq.m.:7689.49		WT/ASSY IN Kgs:	
BACK PIECE FOR LED INDICATOR					SCALE 1:1	SSE/D CHD	
					ALT. a	ALTD DRN	H. Irshath Ahamed
							H. Irshath Ahamed
							
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAB15088	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

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

REF.DRG.NO.

04/06/2018	16-11-2017	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAB15147

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FIN- FINISH MACHINED

① ROUGH CLEANED

② BURRS REMOVED

③ CHAMFERED

REVISIONS

ALT.

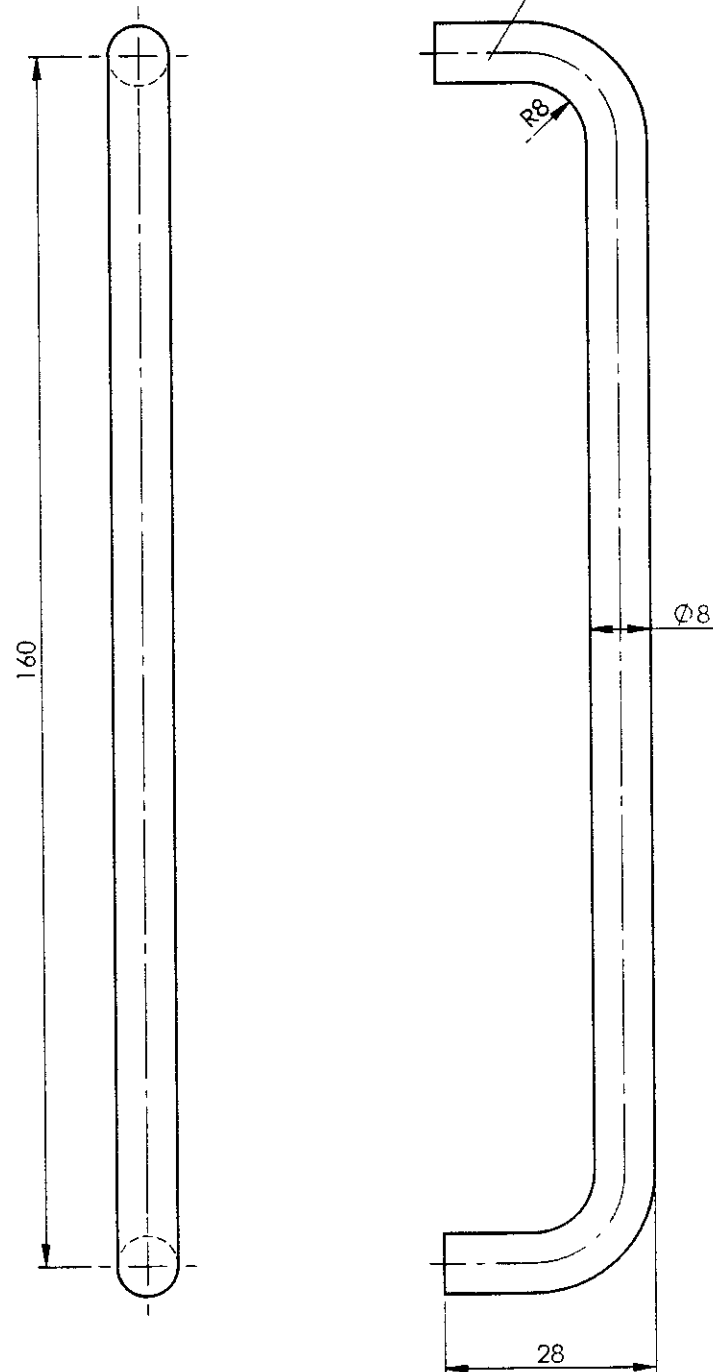
ZONE

DESCRIPTION

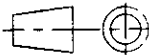
APPROVED &
DATE

a

MATL. SPEC. REVISED AND NOTE-1 ADDED.

**NOTE:-**

1. ALTERNATIVELY MATL TO SPEC. ASTM A276 TYPE-304 CAN ALSO BE USED

1	ELEC CABLE TIE ROD	Ø8 x 198	1		IS 4403-2001 X04Cr19Ni9	0.08	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-5 END CONSTRUCTION		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ELEC CABLE TIE ROD					SCALE	SSE/L:	<i>L Panduranga</i>
					1:1	CHD	
					ALT.	ALTD	RAVI
					a	DRN	H. Irshath Ahamed
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1	AAB15147	
						A3	

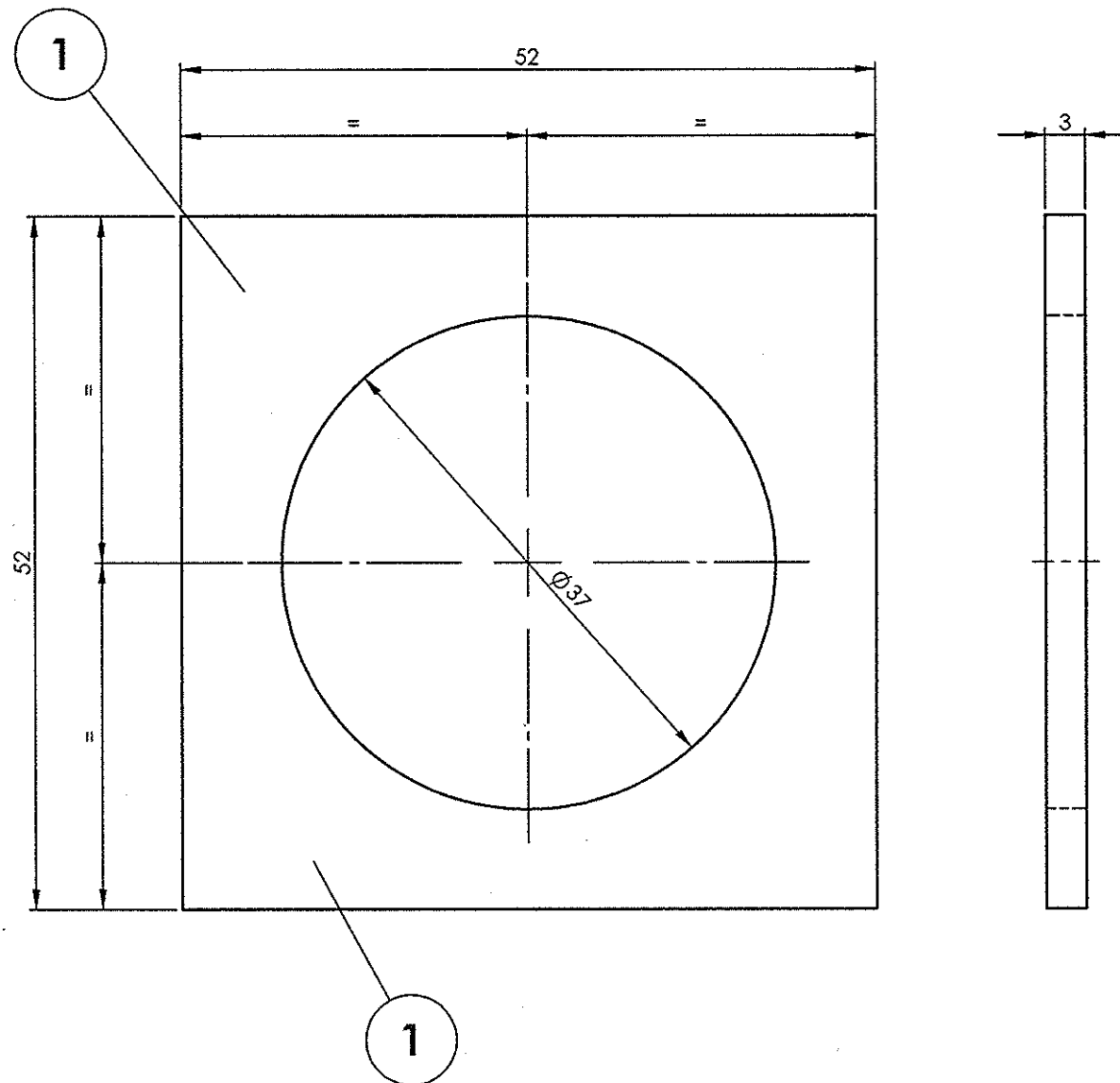
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES REFER DRAWING NO IC/STD-9-0-001.
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

REF.DRG.NO.

AAC14080

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


REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



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

REF.DRG.NO.-

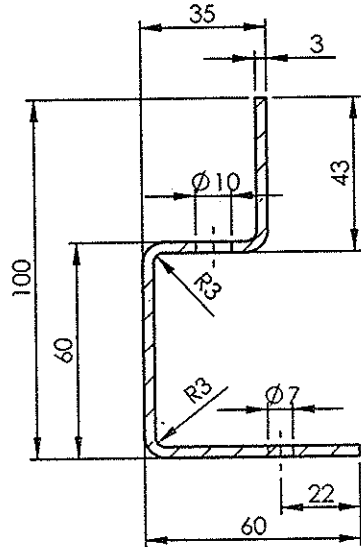
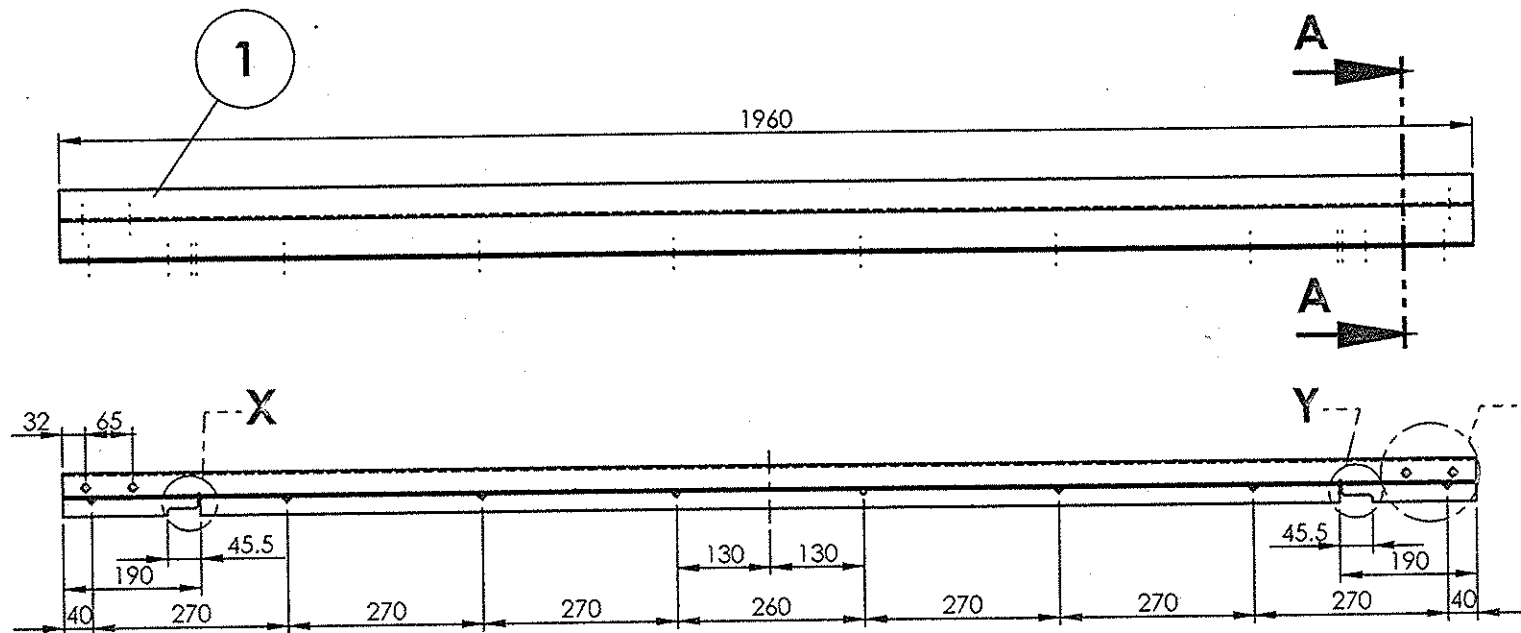
DATE OF LATEST ALT.	9/9/17	AME/SME
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1	BACK PIECE	3x52x52	1		RDSO/SPEC C-K201 X2CrNi12	0.04		
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	
GROUP: 1-4		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:			
BACK PIECE					SCALE	SSE/D	A-4	
					2:1	C=D		
					ALT.	ALTD	A.Palanichamy	
						DRN		
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			AAC14080	A3

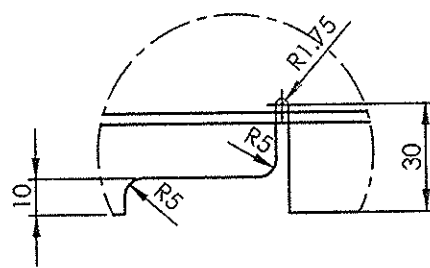
AAC14284

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

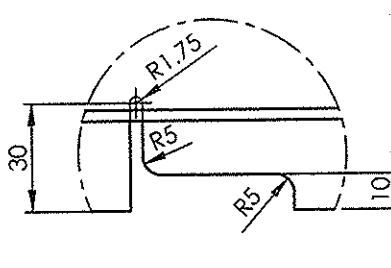
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED	-sd-
b		DIA 7 HOLES ADDED.	



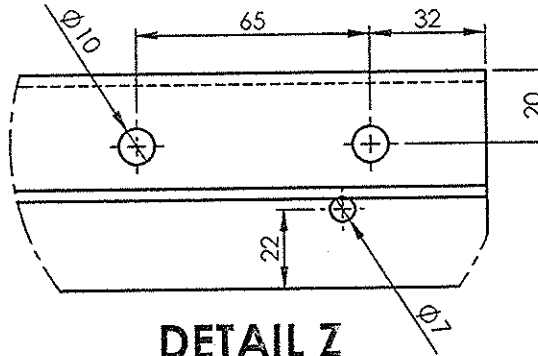
SECTION A-A
SCALE 1 : 2



DETAIL X
SCALE 1 : 2

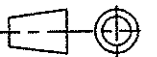


DETAIL Y
SCALE 1 : 2



DETAIL Z
SCALE 1 : 2

1. DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICT/STD 9.0.001.
2. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.
3. HEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

1	HORIZONTAL MEMBER	3x180x1960	1		RDSO/SPEC C-K201 X2CrNi12	8.58	
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:		
HORIZONTAL MEMBER					SCALE	SSE/D	A. Panduranga Rao
					1:20	CHD	
					ALT. b	ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAC14284		A3

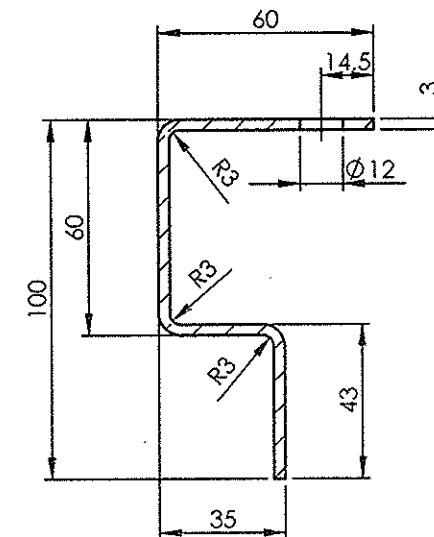
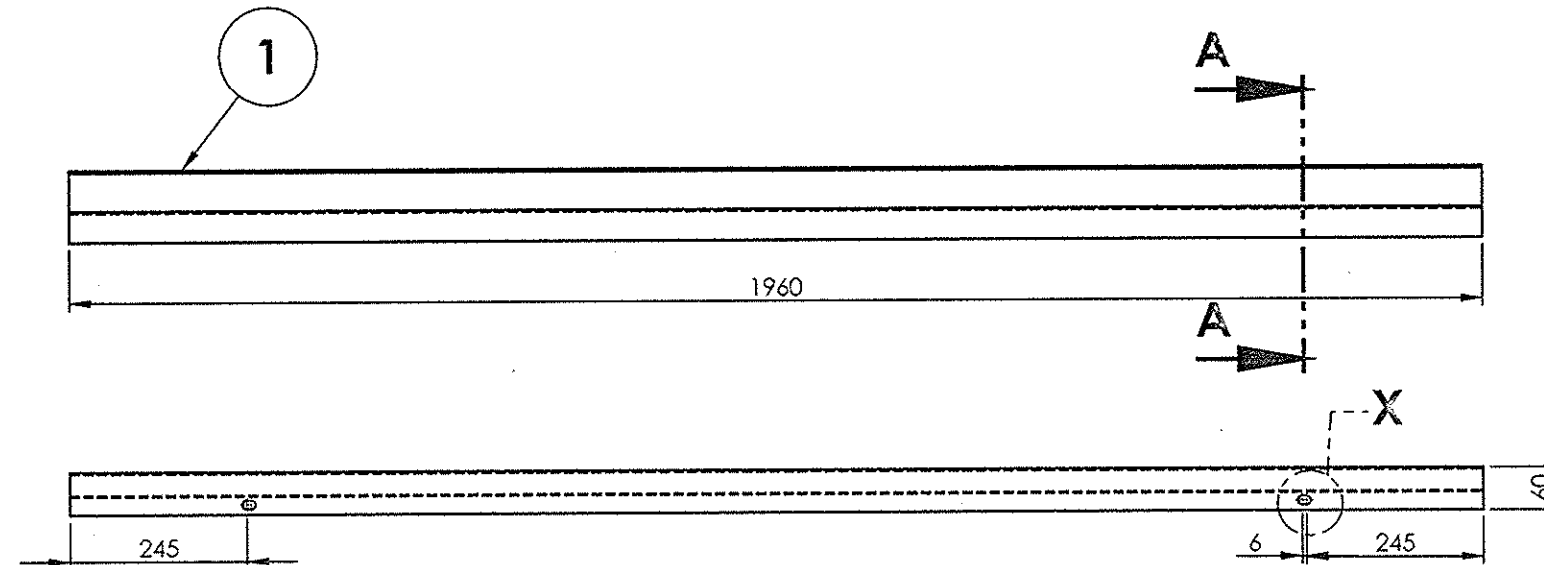
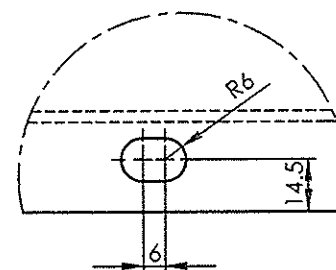
02-03-2018	12.10.2017	


AAC14285

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

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED	-sd-
b		HOLES ADDED	

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

1	HORIZONTAL MEMBER	3x180x1960	1		RDSO/SPEC C-K201 X2CrNi12	8.61		
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:			
HORIZONTAL MEMBER					SCALE	SSE/D	L. Panduranga Rao	
					1:10	CHD		
					ALT. b	ALTD	A.Muthukumar	
						DRN	A.Muthukumar/ANU C	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			AAC14285	A3
INTEGRAL COACH FACTORY, CHENNAI - 600038								


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

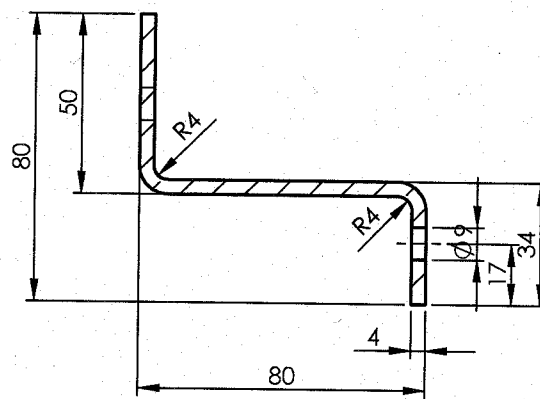
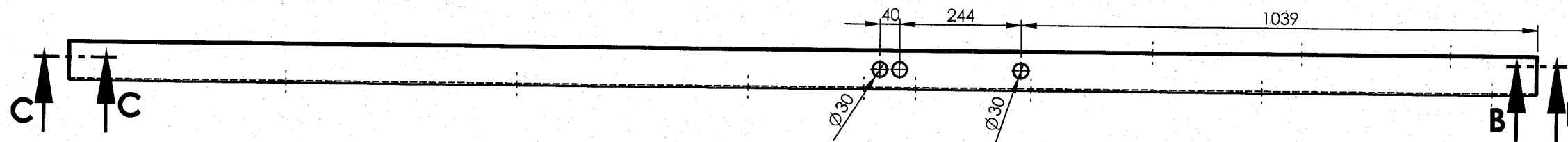
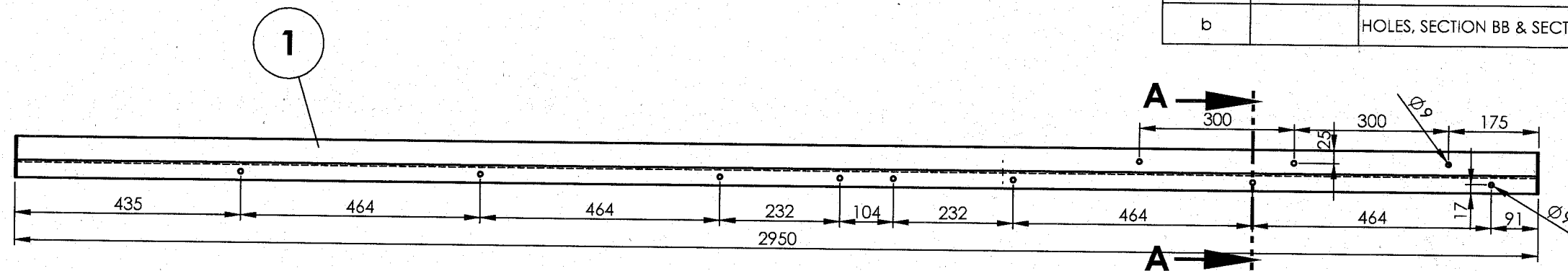
REF.DRG.NO.-

02-03-2018	12-10-2017	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAC14286


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

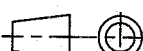
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		RADIUS & R.M.SIZE REVISED.	
b		HOLES, SECTION BB & SECTION CC ADDED.	

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

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

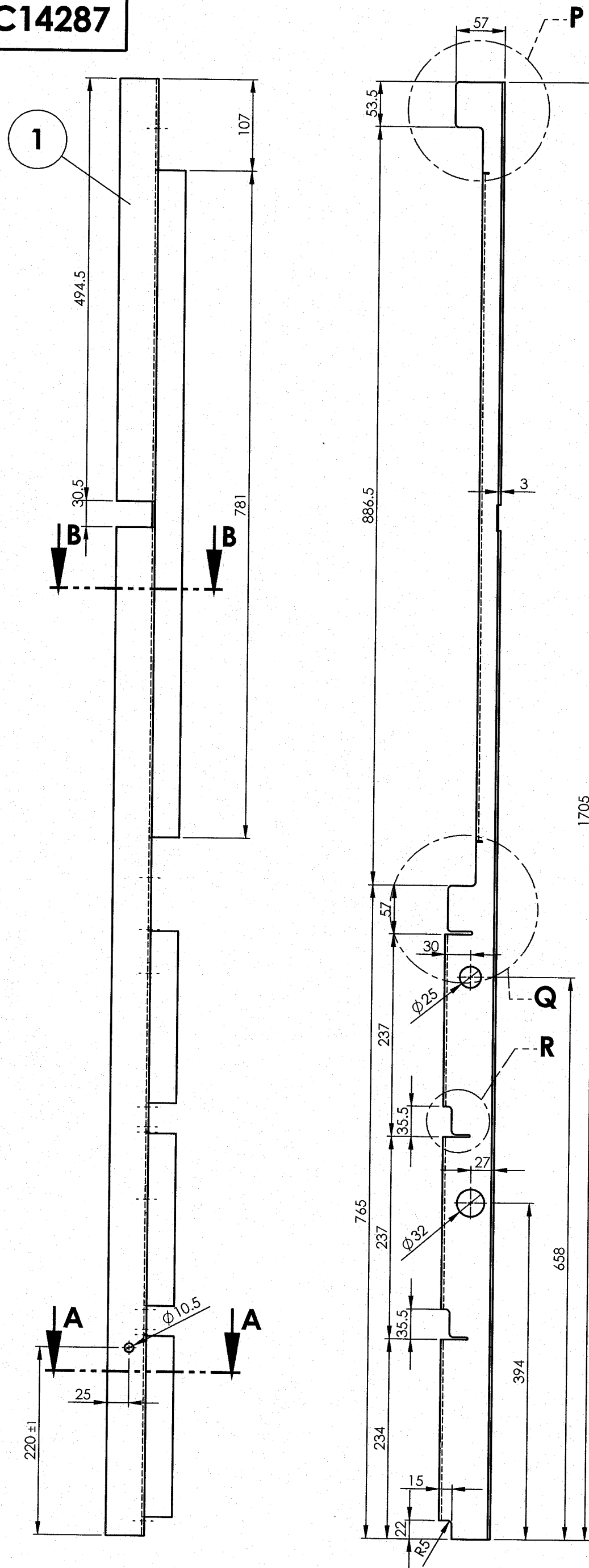
REF.DRG.NO.-

20-12-18	12-10-2017	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

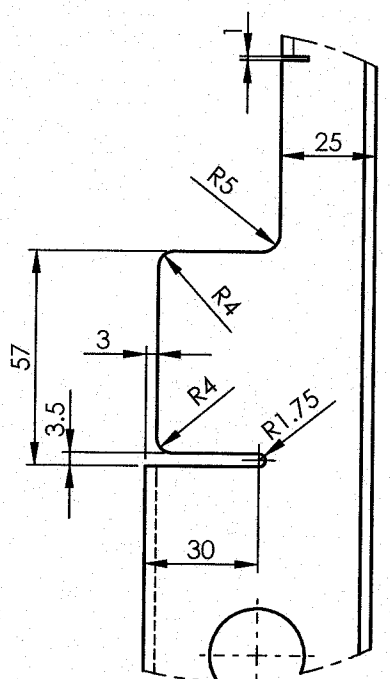
1	ROOF FLANGE	4x151x2950	1		RDSO/SPEC C-K201 X2CrNi12	14.14	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-4		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ROOF FLANGE					SCALE	SSE/D	<i>L. Pandurangan</i>
					1:20	CHD	
					ALT.	ALTD	R.Vijay Rathinam
					b	DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		
AAC14286							A3

AAC14287

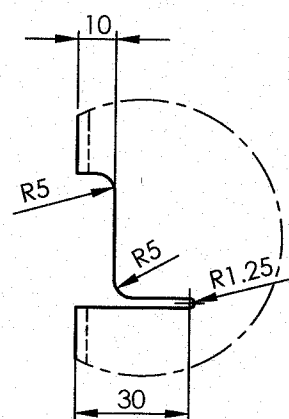
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001.
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DETAIL P
SCALE 1 : 2

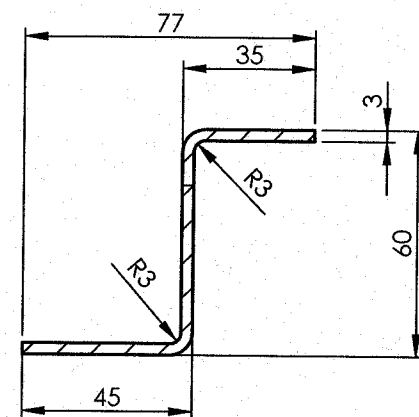


DETAIL Q
SCALE 1 : 2

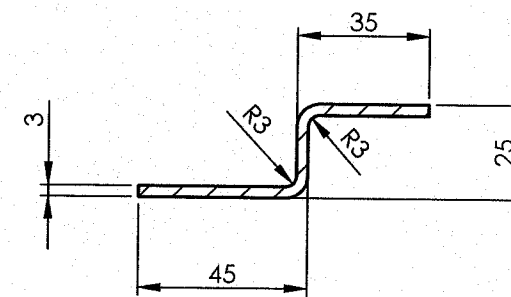


DETAIL R
SCALE 1 : 2

SECTION A-A
SCALE 1 : 2



SECTION B-B
SCALE 1 : 2




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

① ROUGH CLEANED
①b BURRS REMOVED
①8 CHAMFERED

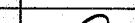
REVISIONS

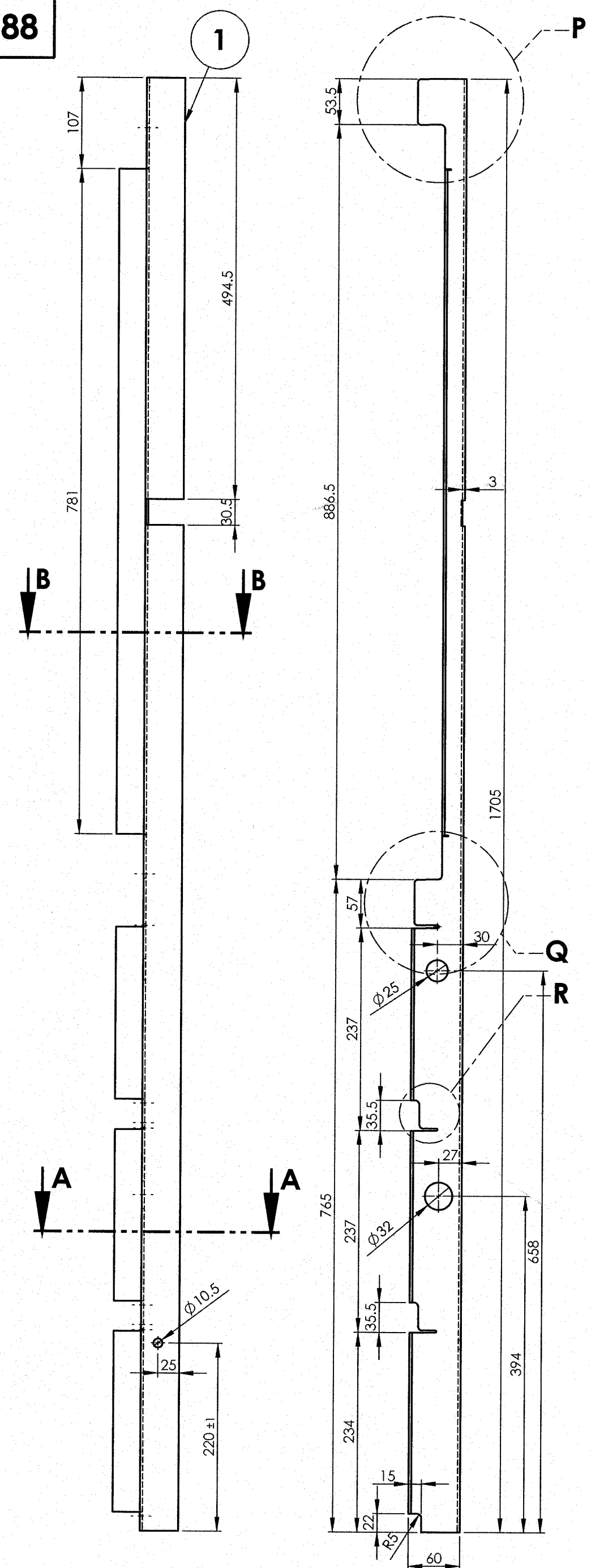
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
b		NO. OF HOLES & HOLE LOCATION REVISED.	-sd-
c		HOLE ADDED	-sd-
d		DIA 25 HOLE ADDED	30/11

1	PILLAR L H	3x128x1705	1		RDSO/SPEC C-K201 X2CrNi12	4.25	
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:		
PILLAR L H					SCALE 1:5	SSE/D	A. Pandurang Rao
						CHD	
					ALT d	ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			A2
INTEGRAL COACH FACTORY, CHENNAI - 600038							
				AAC14287			

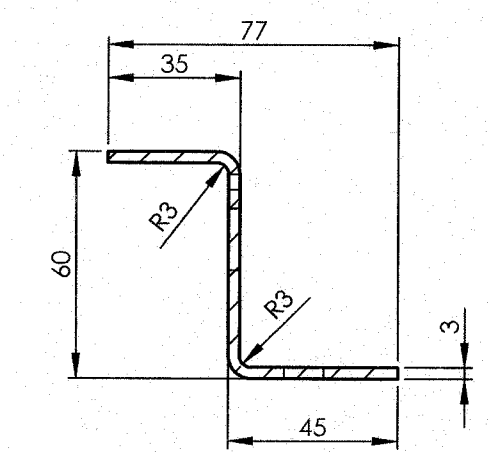
04-04-2018	12-10-2017	A. Muthukumar
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

[illegible]

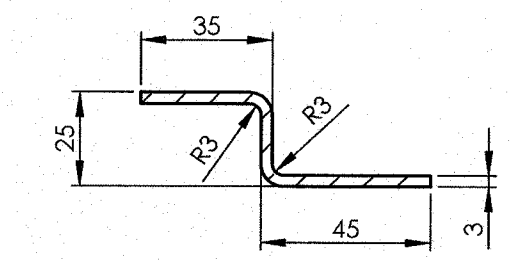
▽ ROUGH MACHINED	(01) ROUGH CLEANED	REVISIONS			
▽▽ FINISH MACHINED	(01b) BURRS REMOVED	ALT.	ZONE	DESCRIPTION	APPROVED & DATE
▽▽▽ FINE FINISH MACHINED	(18) CHAMFERED	c		NO. OF HOLES & HOLE LOCATION REVISED.	-sd-
		d		HOLE ADDED	-sd-
		e		DIA 25 HOLE ADDED	



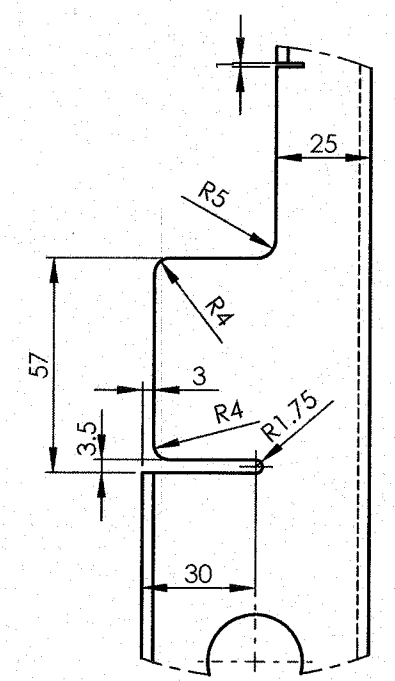
DETAIL P
SCALE 1 : 2



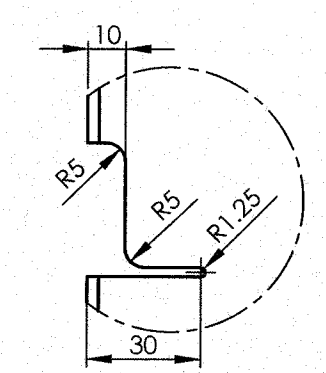
SECTION A-A
SCALE 1 : 2



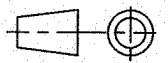
SECTION B-B
SCALE 1 : 2



DETAIL Q
SCALE 1 : 2

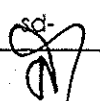


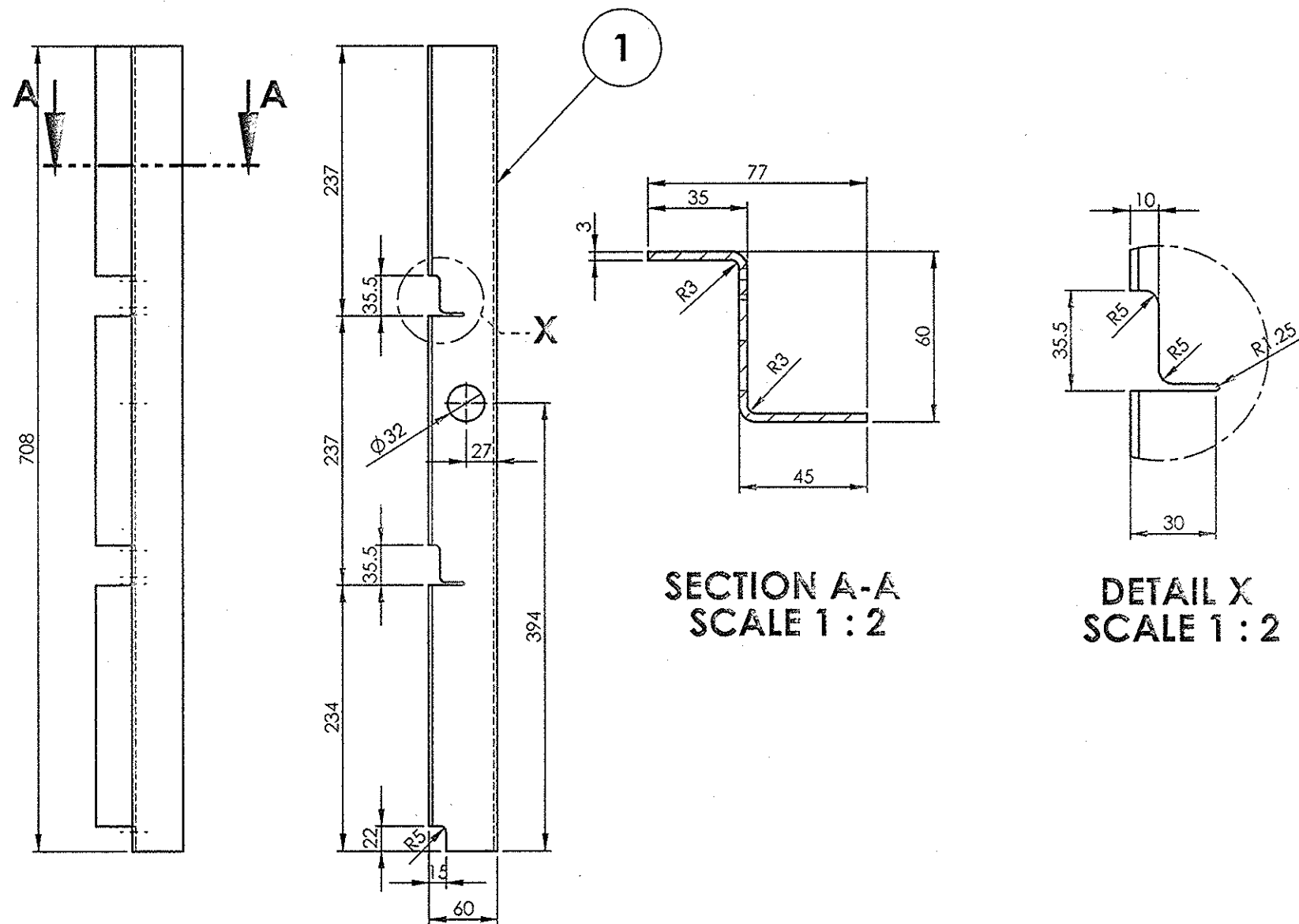
DETAIL R
SCALE 1 : 2

1	PILLAR R H	3X128X1705	1		RDSO/SPEC C-K201 X2CrNi12	4.25	
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:		
PILLAR R H					SCALE 1:10	SSE/D	L. Jandurangala
						CHD	
					ALT e	ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAC14288		
					A2		

AAC14289

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

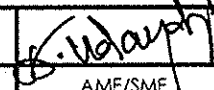
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
b		HOLES DELETED.	
c		HOLE ADDED.	



1	PART PILLAR R H	3x128x708	1		RDSO/SPEC C-K201 X2CrNi12	2.10	
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:		
PART PILLAR					SCALE	SSE/D	<i>Panduranga Rao</i>
					1:5	CHD	
					ALT. c	ALTD	A.Muthukumar
						DRN	A.Muthukumar
					INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038		
SHEET 1 OF 1							
AAC14289							


ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC7/SID 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

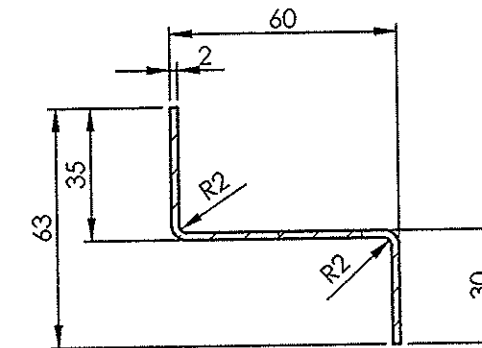
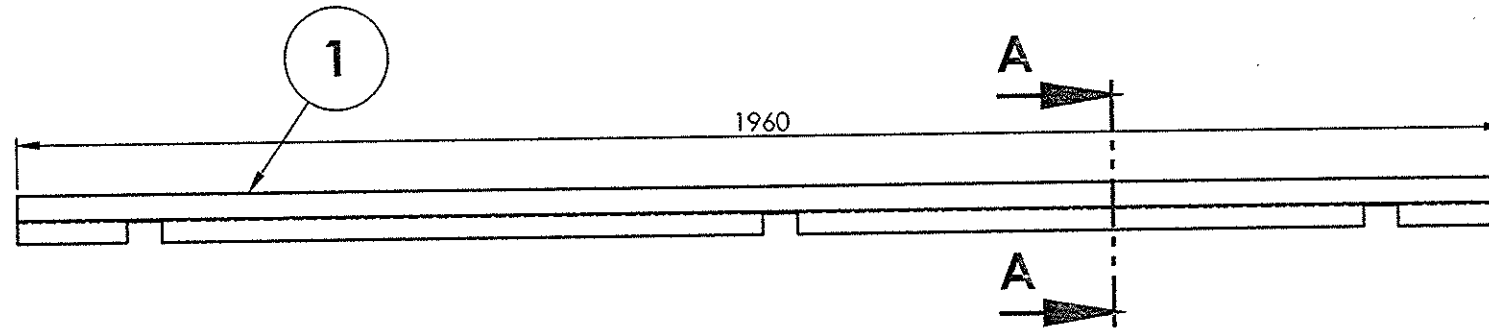
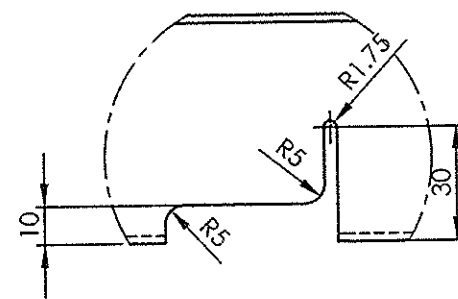
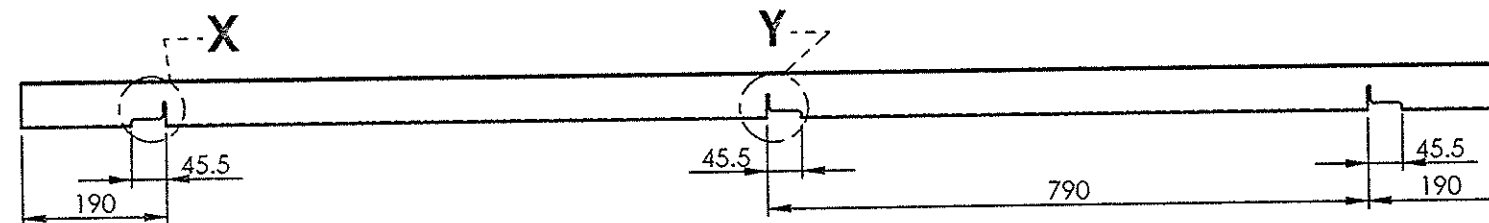
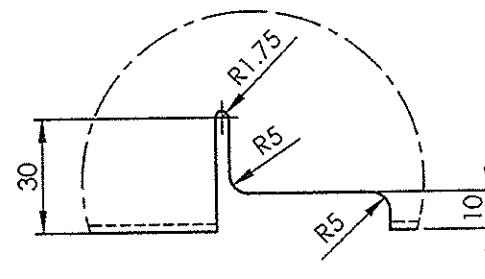
REF.DRG.NO.-


14-03-2018	12-10-2017	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAC14292

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		DESIGN REVISED	

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

1	HORIZONTAL MEMBER	2x117x1960	1		RDSO/SPEC C-K201 X2CrNi12	3.63	
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:		
HORIZONTAL MEMBER					SCALE	SSE/D	<i>P. Pandurangolan</i>
					1:20	CHD	
					ALT. a	ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1	AAC14292	
							A3

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REF.DRG.NO.-

09-11-2017	12-10-2017	<i>[Signature]</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAC14293

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

① ROUGH CLEANED
①③ BURRS REMOVED
①⑧ CHAMFERED

REVISIONS

ALT.

ZONE

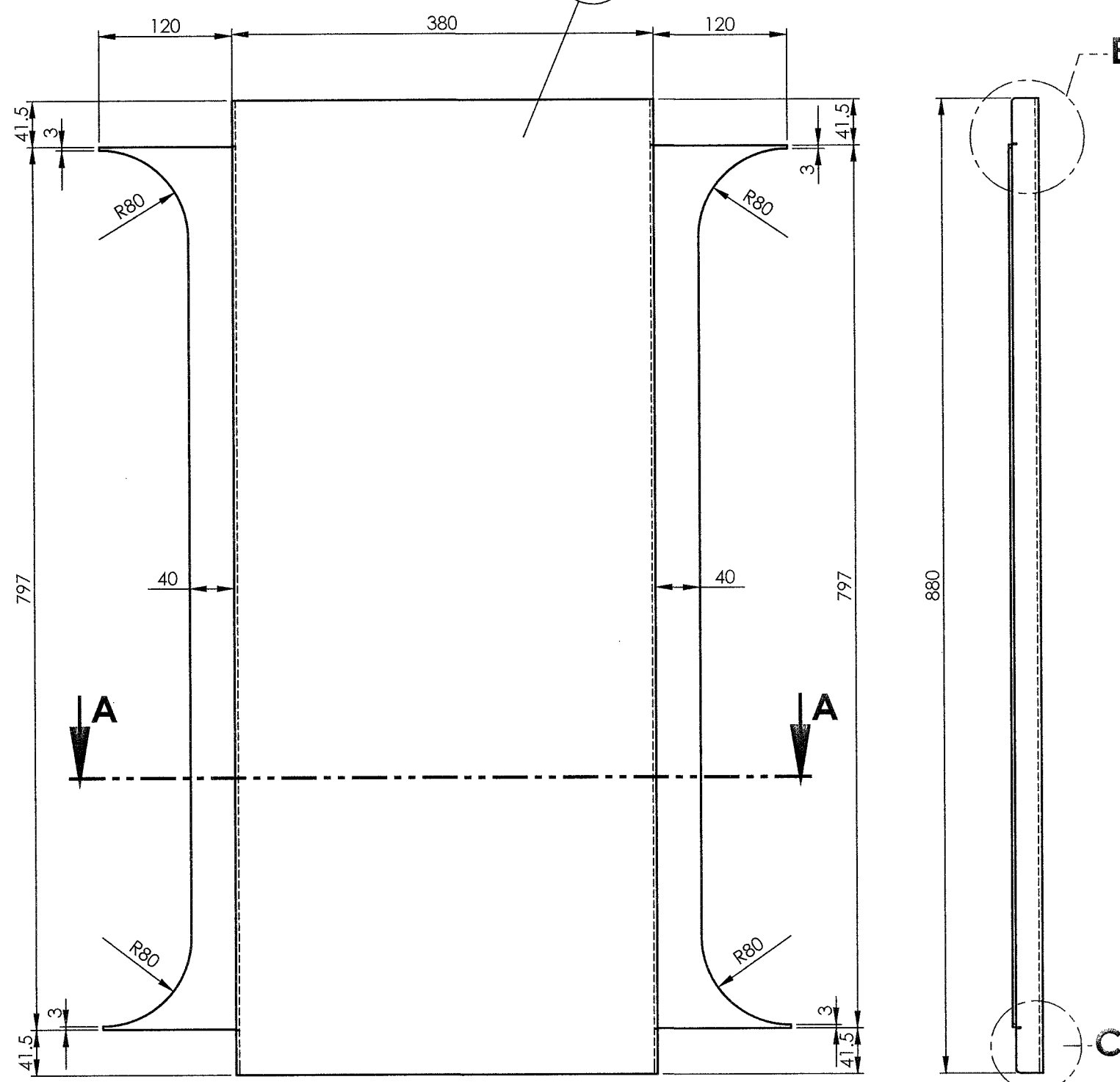
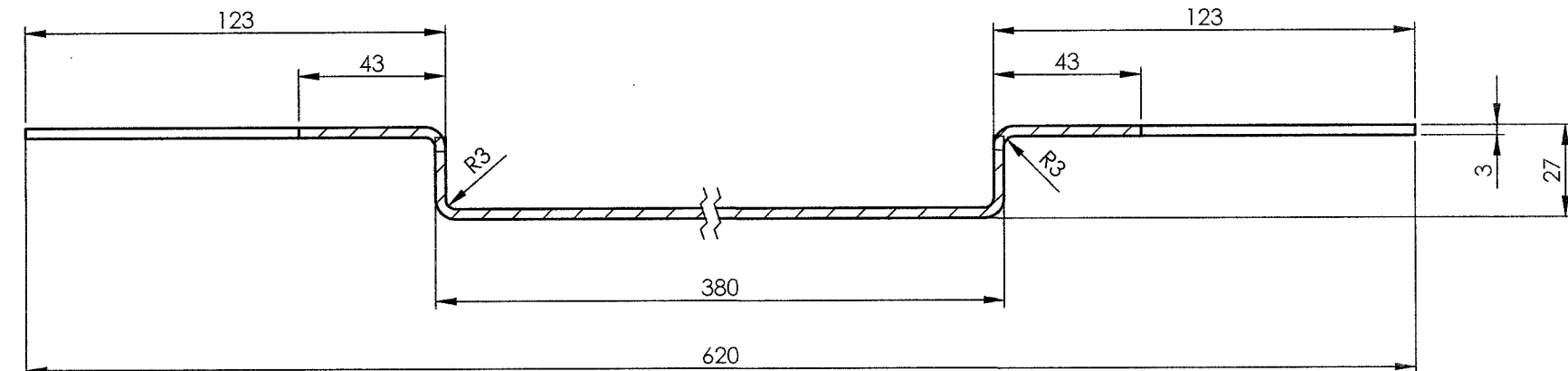
DESCRIPTION

APPROVED &
DATE

a

CUTAWAY DIMENSION REVISED.

P

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

1	BRACKET	3x656X880	1		RDSO/SPEC C-K201 X2CrNi12	10.56	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: I-4			SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:	
BRACKET				SCALE 1:5		SSE/D	
						CHD	
				ALT a		ALTD	A.Muthukumar
						DRN	A.Muthukumar
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
						AAC14293	
						A2	

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REF.DRG.NO.-

8.1.18
DATE OF LATEST ALT.
DATE OF FIRST ISSUE
AME/SME