
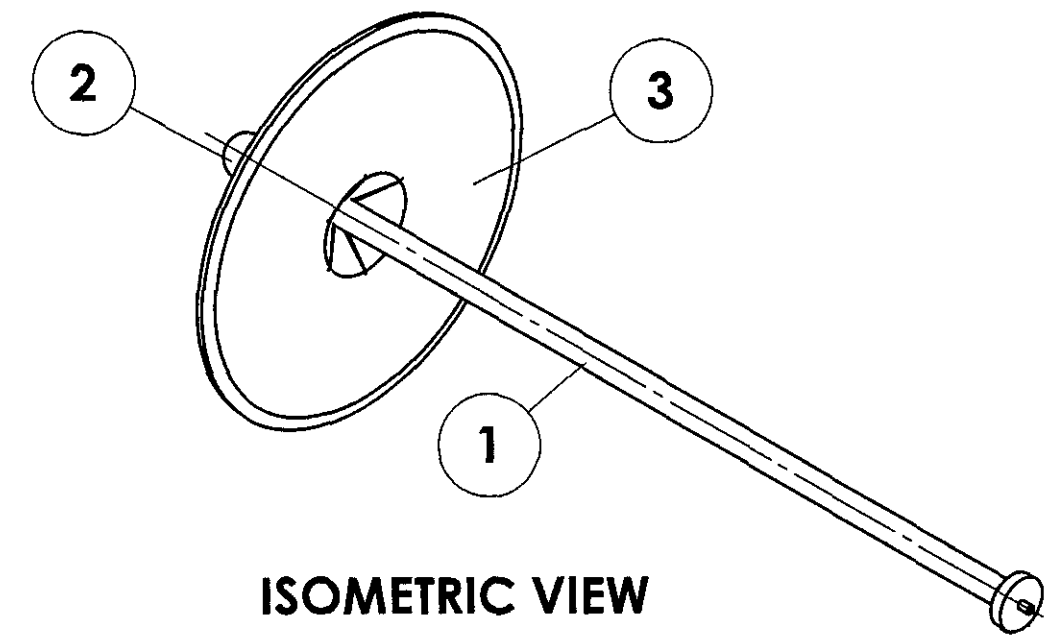


49516008

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

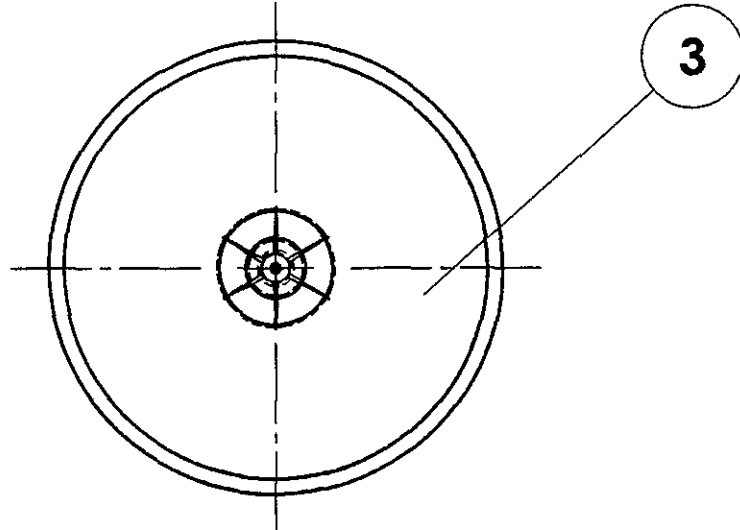
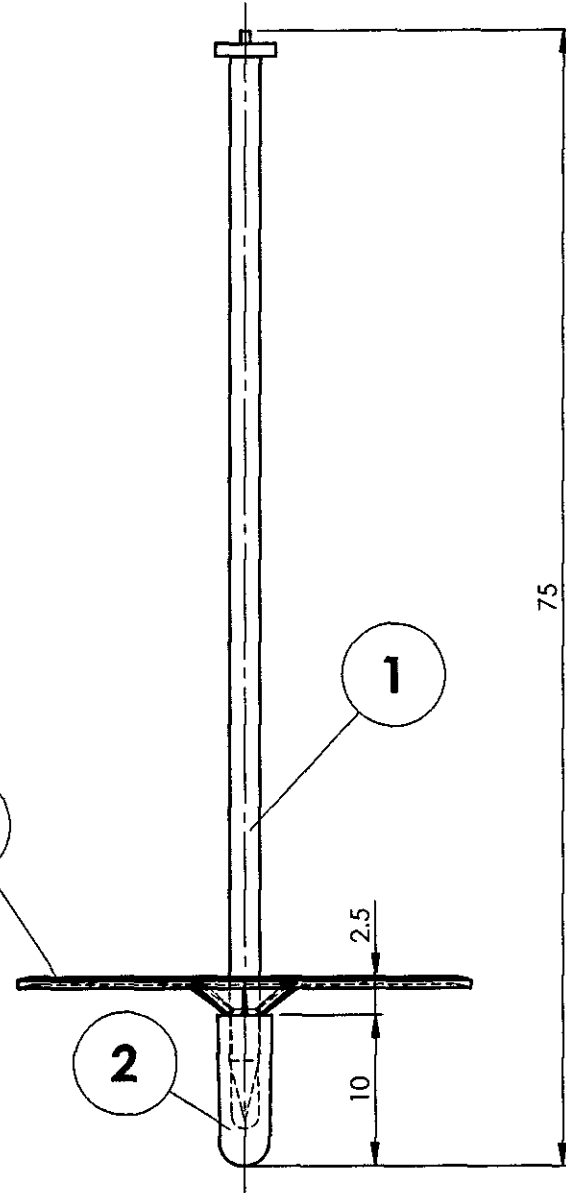
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NOTE REVISED. VIEWS UPDATED AS PER DETAIL.	



ISOMETRIC VIEW

NOTE:

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



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

GROUP: 1-6 ROOF CONSTRUCTION

SURFACE AREA IN Sq.m.:0.002

WT/ASSY IN Kgs:

WELDING PIN ASSEMBLY

SCALE  
1:1

SSE/D  
CHD

ALT.  
a

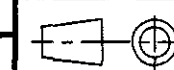
ALTD  
DRN

A.Palanichamy  
3D:A.Palanichamy  
2D:P.Murugan

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET  
1 OF 1



LWGSCWAC2

49516008

A3

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

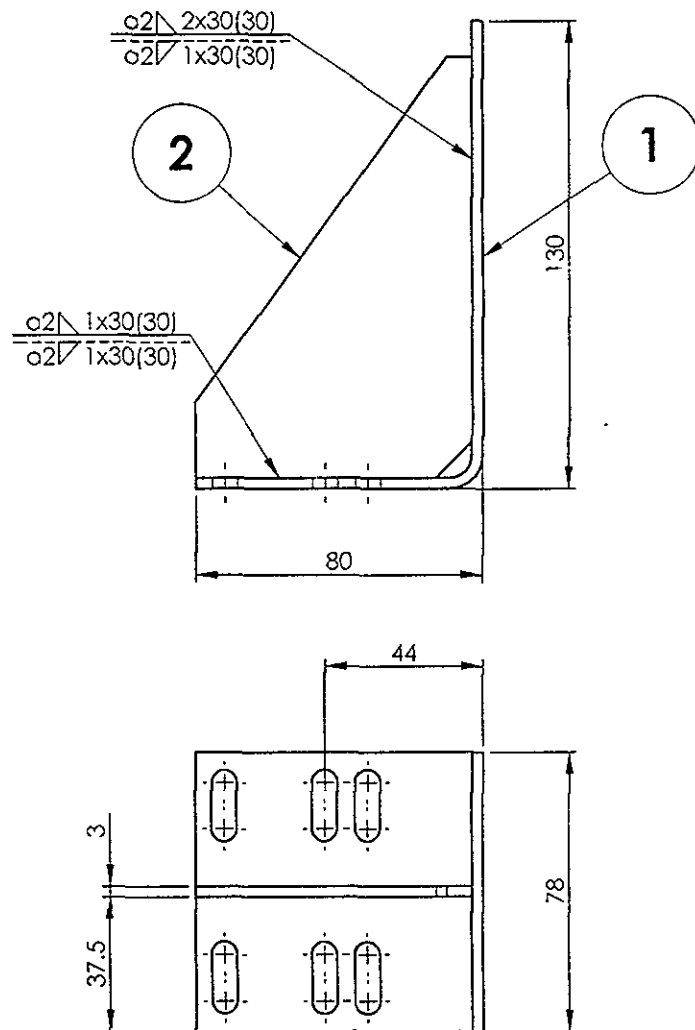
REF.DRG.NO.mi005176

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

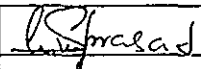
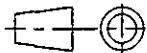
59316008

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

**NOTE:**

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

1	WEB		2	AAA16907		0.134	
1	ANGLE		1	AAA16906		0.363	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY			SURFACE AREA IN Sq.m.:0.045		WT/ASSY IN Kgs:0.496		
BRACKET COMPLETE					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	
						DRN	K.Srirom
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							LWSCWAC/EOG
SHEET 1 OF 1					59316008		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC1/STD 9 0 001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813:1986.

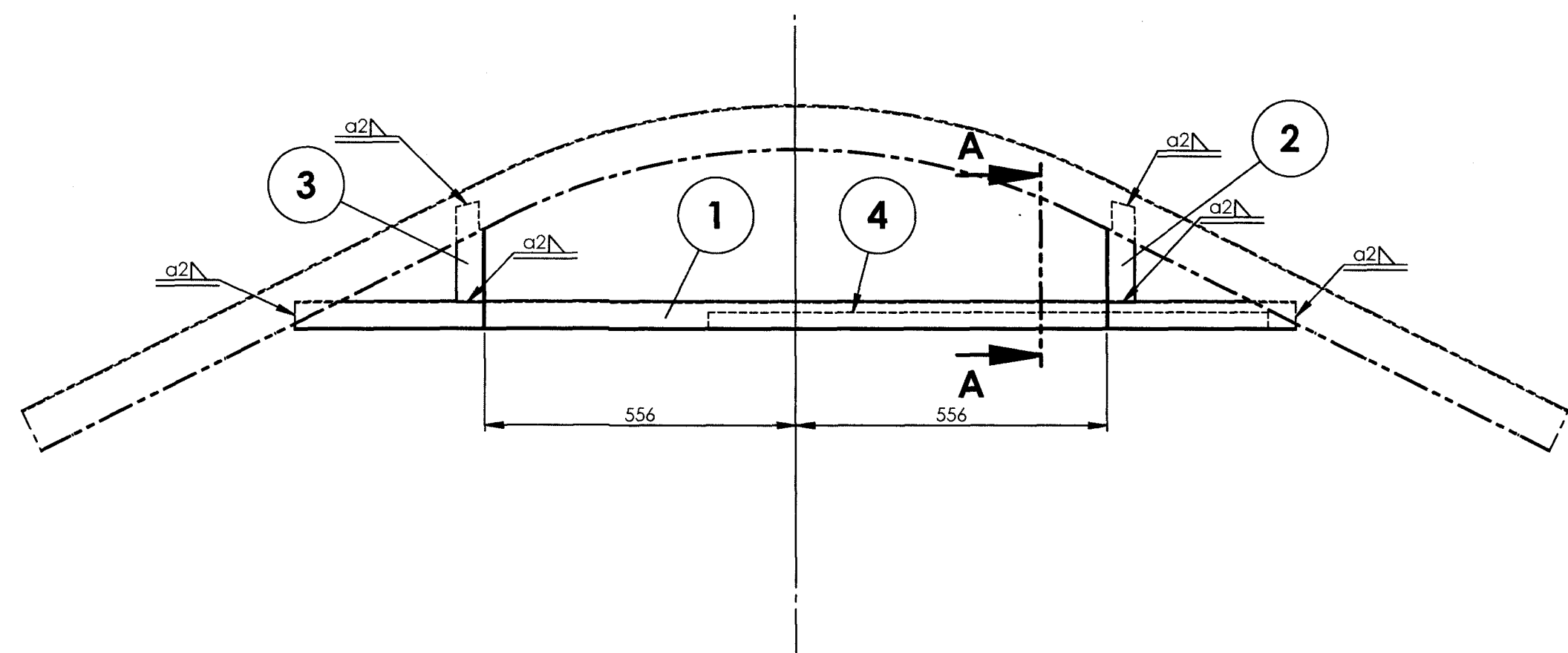
REF.DRG.NO.3.10113.0.20.095.007

22-03-2013	22/3
DATE OF LATEST ALT.	DATE OF FIRST ISSUE
AME/SME	

64516003

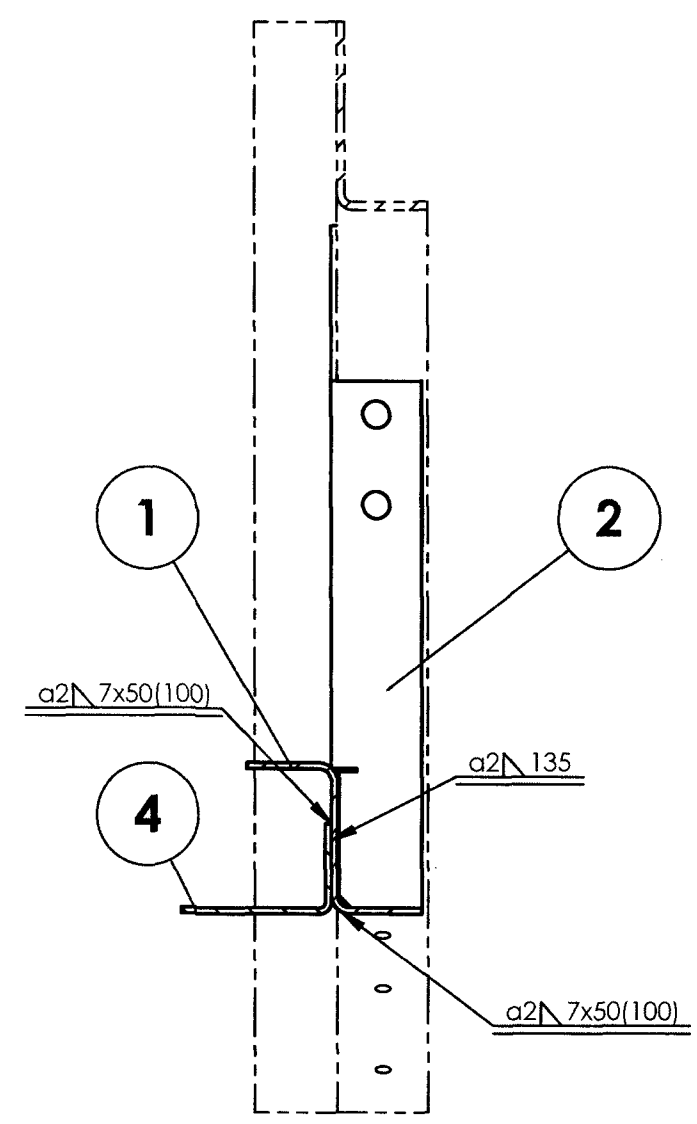
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①B CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.



SECTION A-A  
SCALE 2 : 5

1	ANGLE		4	AAB16326		1.23	
1	SUPPORTING ANGLE L.H.		3	AAB16324		0.203	
1	SUPPORTING ANGLE R.H.		2	AAB16323		0.203	
1	Z- MEMBER		1	AAB16325		2.91	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 ROOF

SURFACE AREA IN Sq.m.: 1.379

WT/ASSY IN Kgs:

CROSS BRACE COMPLETE FOR AC-3T LHB COACH

SCALE 1:10

ALT

CHD

ALTD

DRN

S.Bala V.subramani.

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

64516003

A2

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

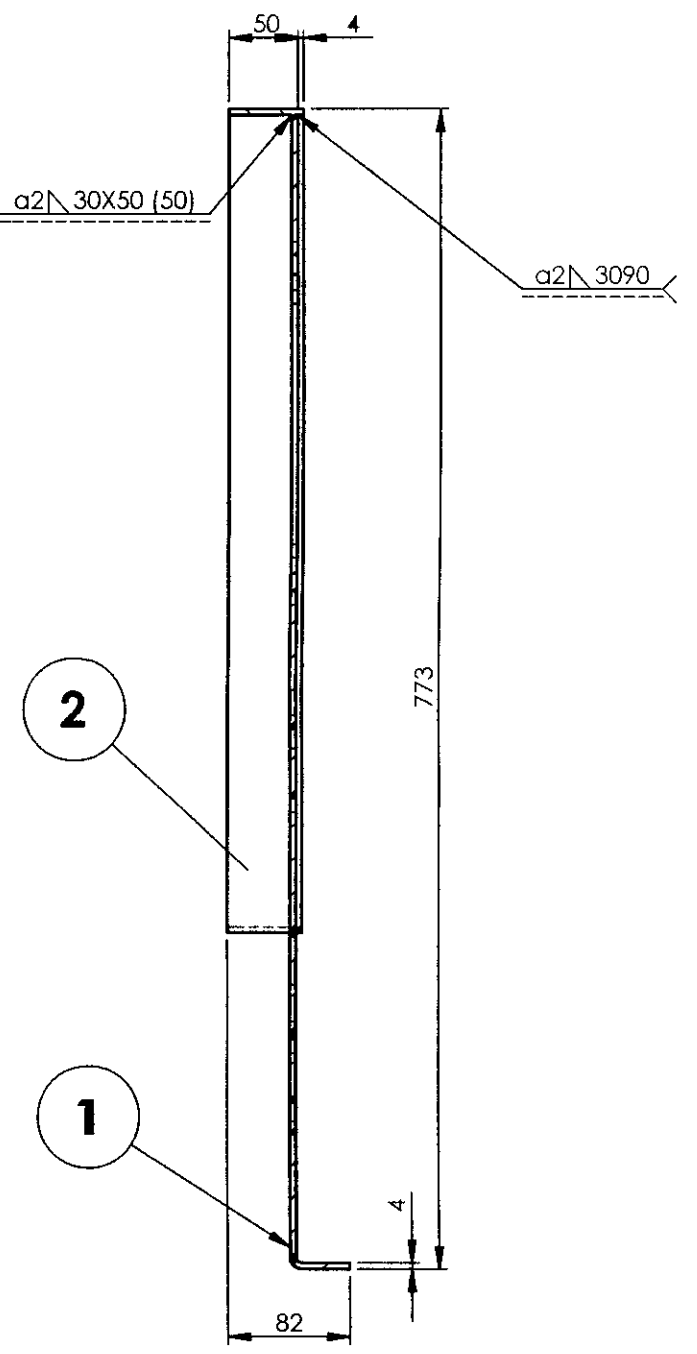
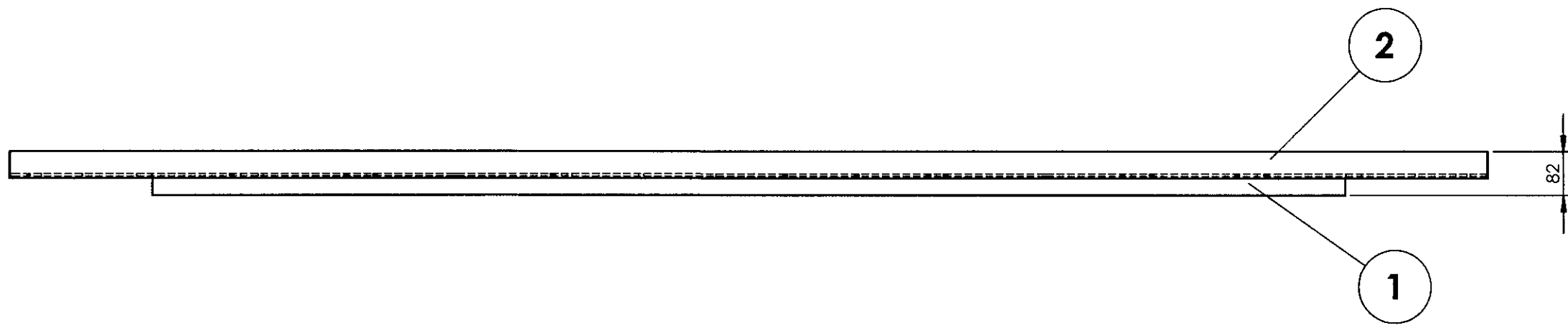
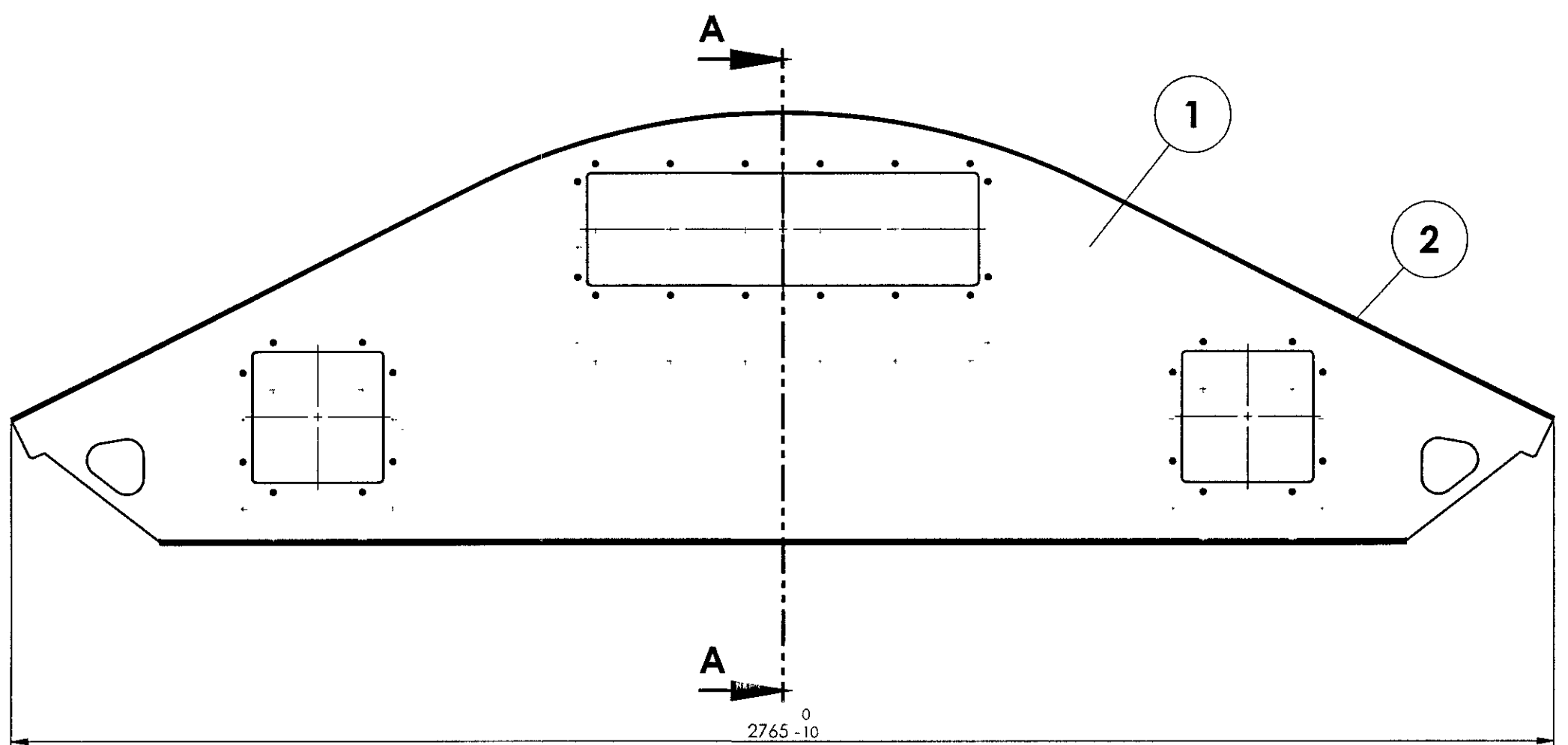
REF.DRG.NO.LE16104 alt-a

DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME
	14-09-2021	

82716014

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

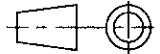
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



SECTION A-A  
SCALE 1 : 5

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 WELDED JOINTS 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	FLANGE FOR FINAL ROOF ARCH.		2	AAB14333		4.80	
1	FRONT SHEET OF FINAL ROOF		1	AAF14123		40.46	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction			SURFACE AREA IN Sq.m.: 2.898		WT/ASSY IN Kgs:		
FINAL ROOF ARCH COMPLETE					SCALE 1:20	SSE/D	L. Pandurangam
						CHD	
					ALT	ALTD	
						DRN	E.SATHISH KUMAR
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			LWFAC/PP2
					82716014		A2

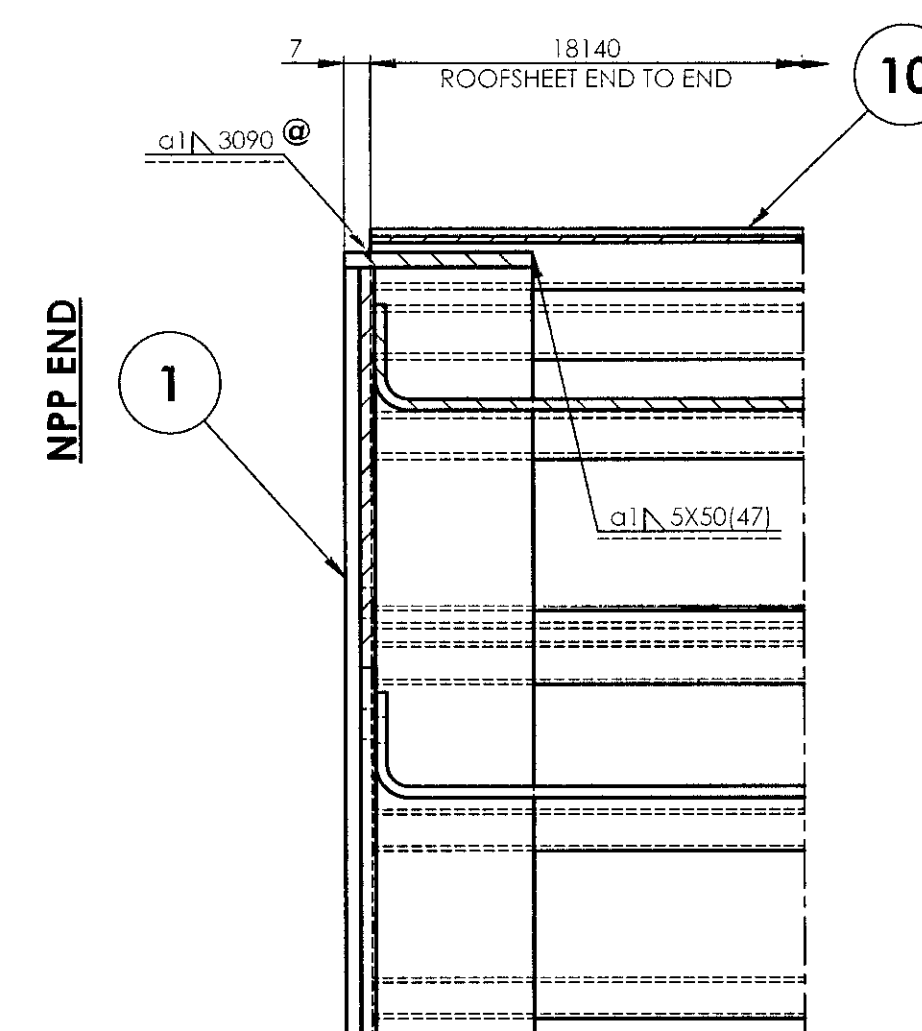
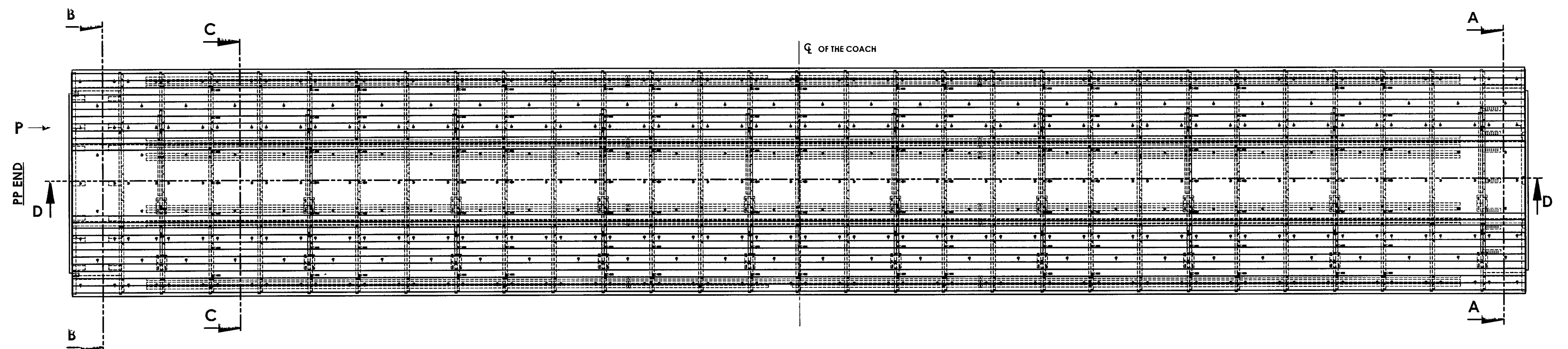
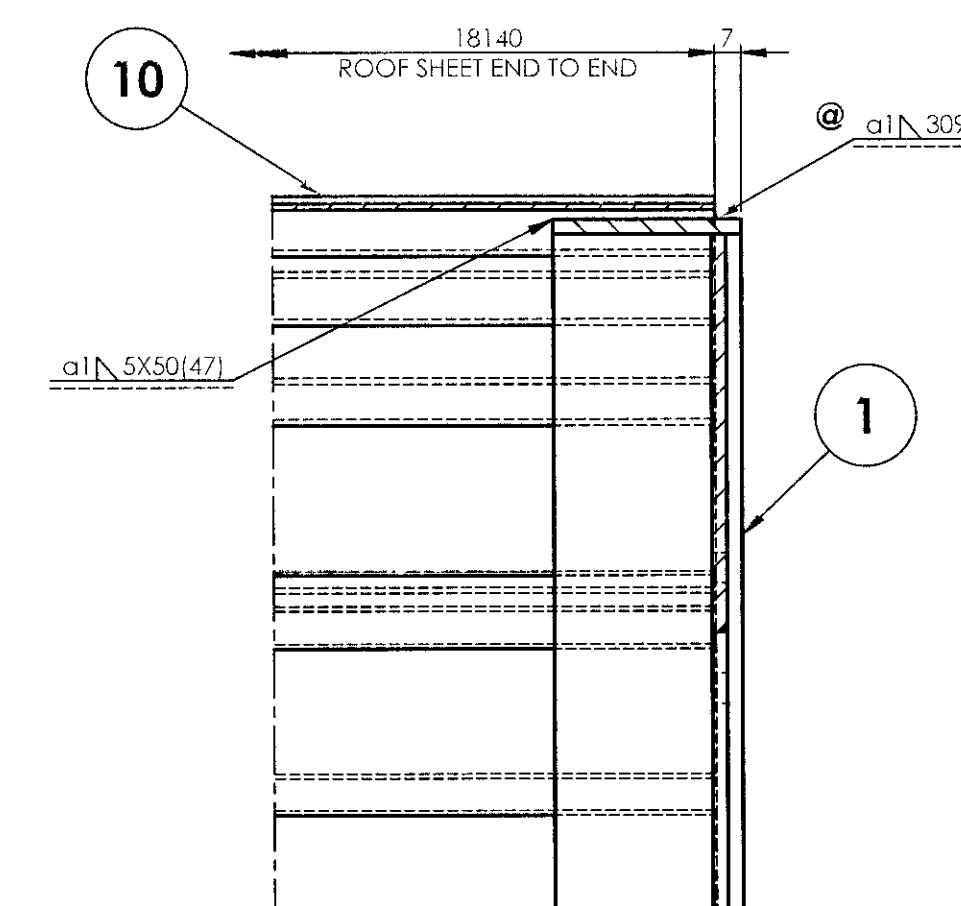
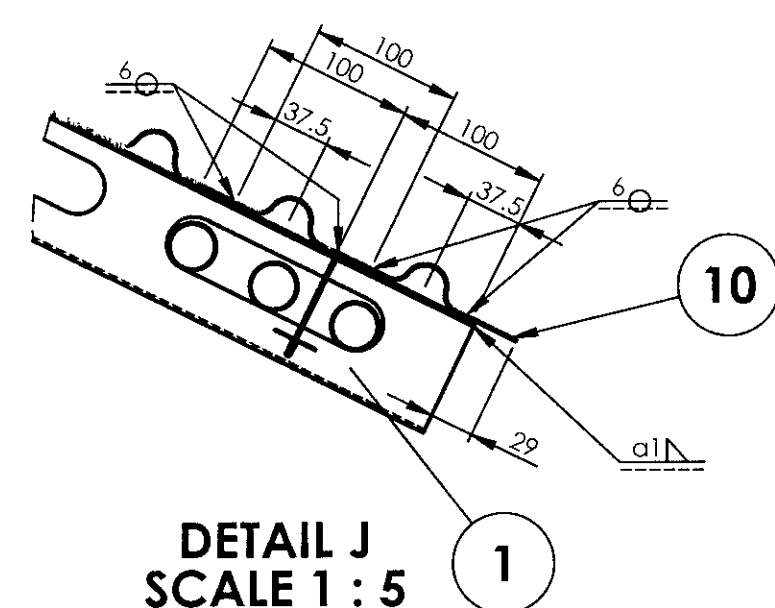
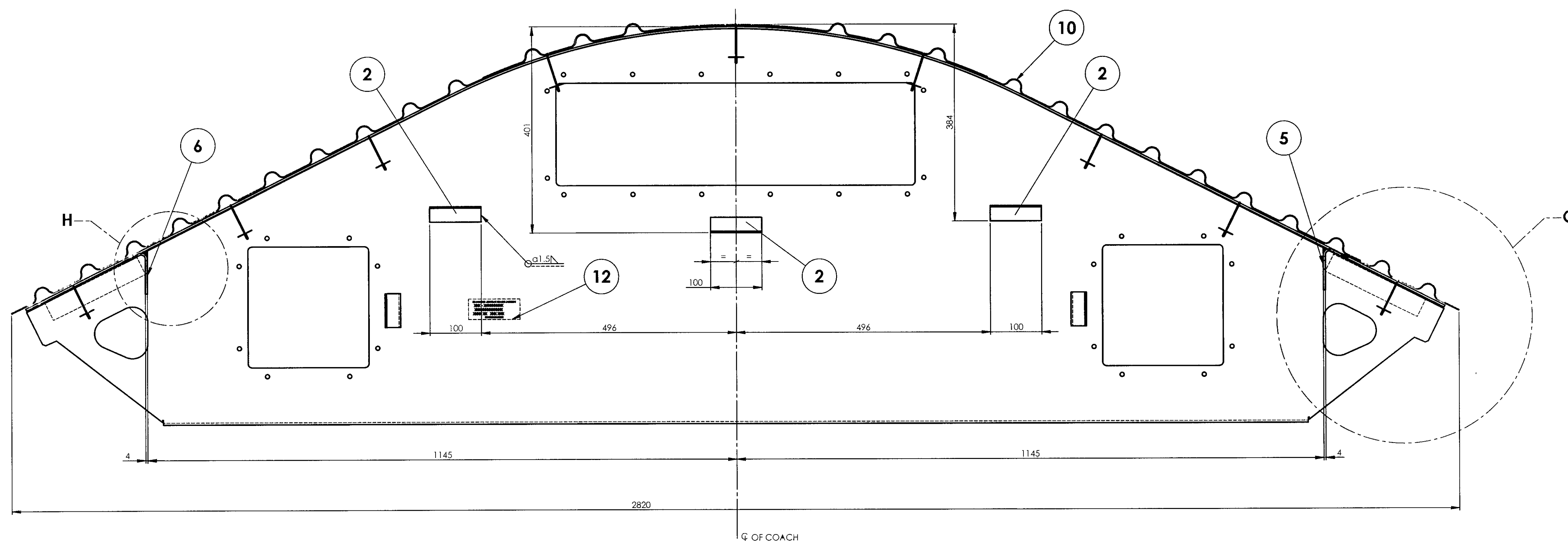
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS:813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.

DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME
	8/8/25	

82916001

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

SECTION D-D  
SCALE 1 : 30DETAIL E  
SCALE 1 : 2DETAIL F  
SCALE 1 : 2SECTION A-A  
SCALE 1 : 5DETAIL J  
SCALE 1 : 5

REF.DRG.NO.LE16100 all-f

DATE OF LATEST ALT.	15-07-2025	AME/SME
DATE OF FIRST ISSUE		

GROUP: 1-6 ROOF	SURFACE AREA IN Sq.m.: 215.226	WT/ASSY IN Kgs:
SCALE: 1:50		SCALE: 1:50
CHD:		CHD:
ALT:		ALT:
DRN:		DRN:
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600048		LWACCN
SHEET 1 OF 2		82916001 A1

82916001

▽ ROUGH MACHINED  
▽ FINISH MACHINED  
▽ FINE FINISH MACHINED

○ ROUNDED  
○ BURRS REMOVED  
○ CHAMFERED

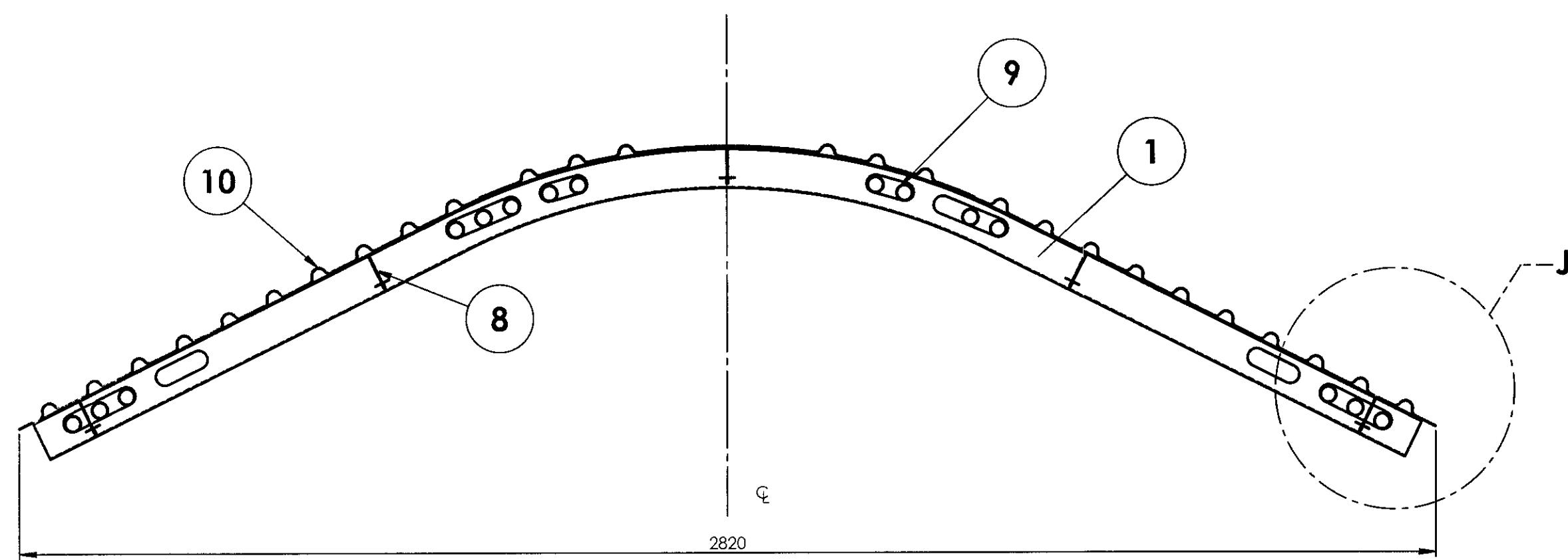
REVISIONS

ALT.

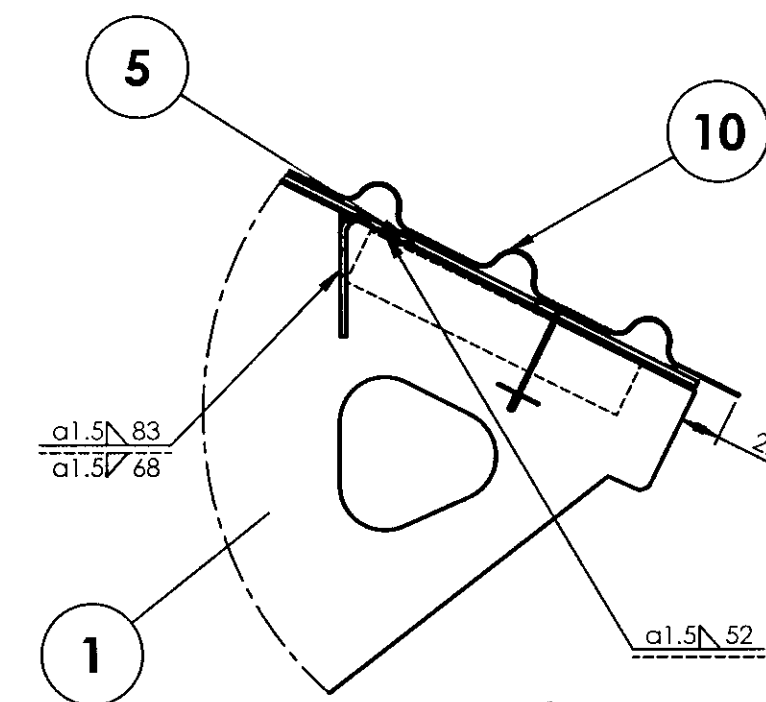
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DESCRIPTION

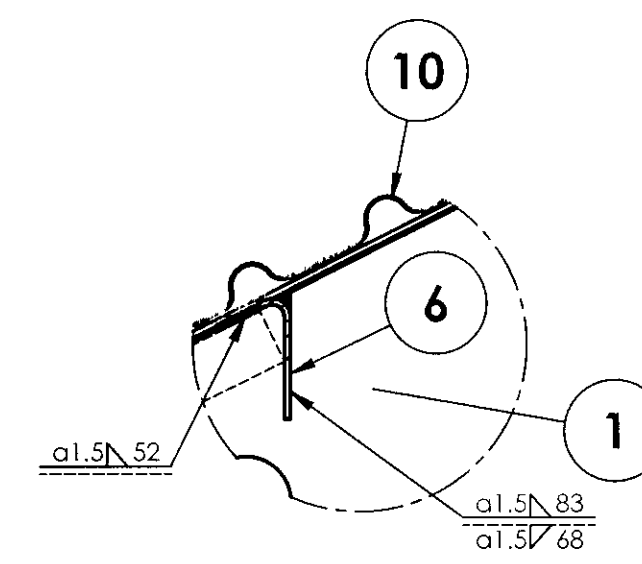
APPROVED &amp; DATE



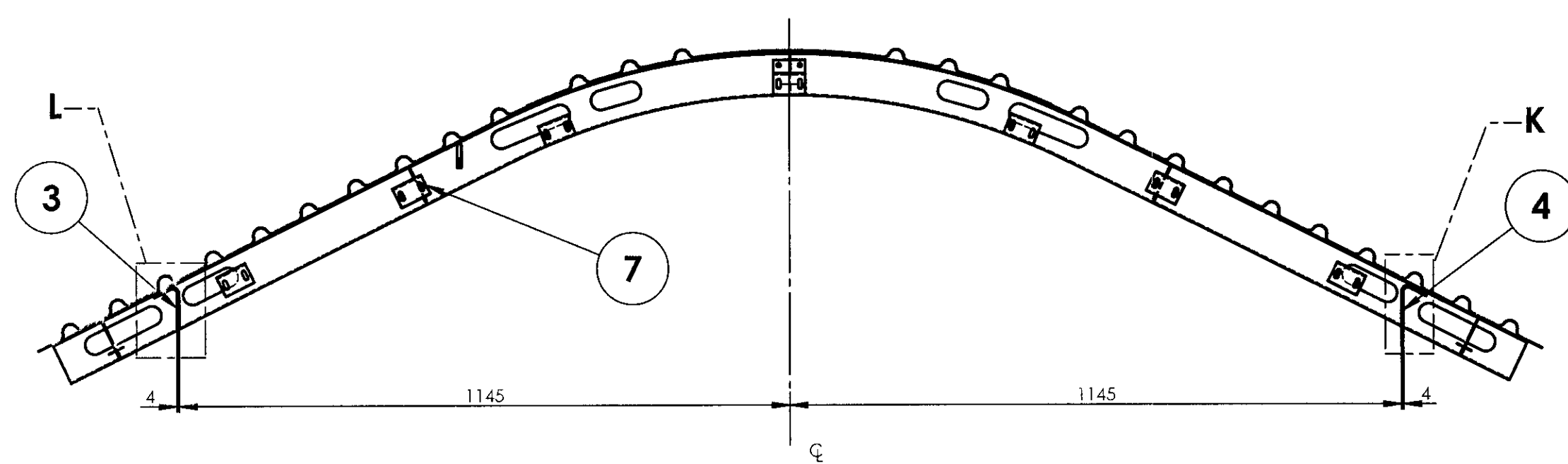
SECTION C-C  
SCALE 1 : 10



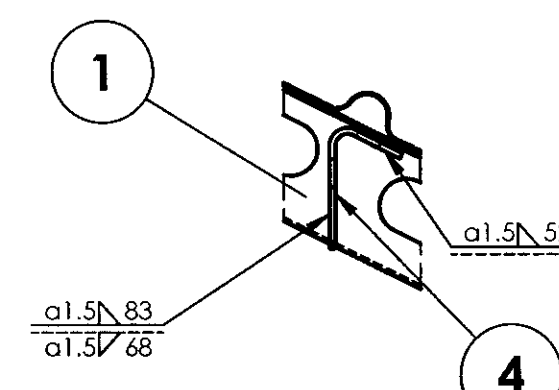
DETAIL G  
SCALE 1 : 5



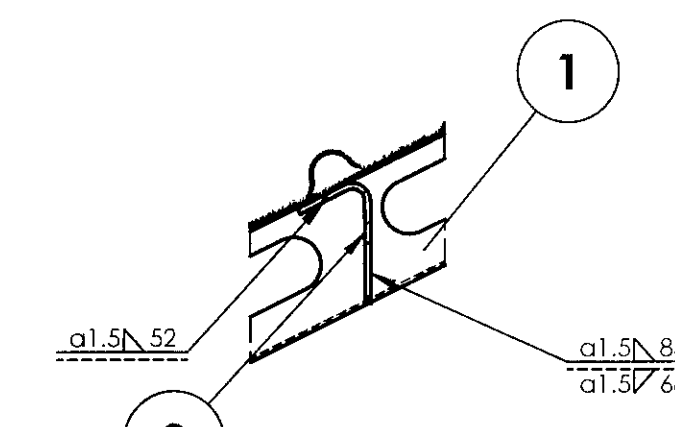
DETAIL H  
SCALE 1 : 5



SECTION B-B  
SCALE 1 : 10



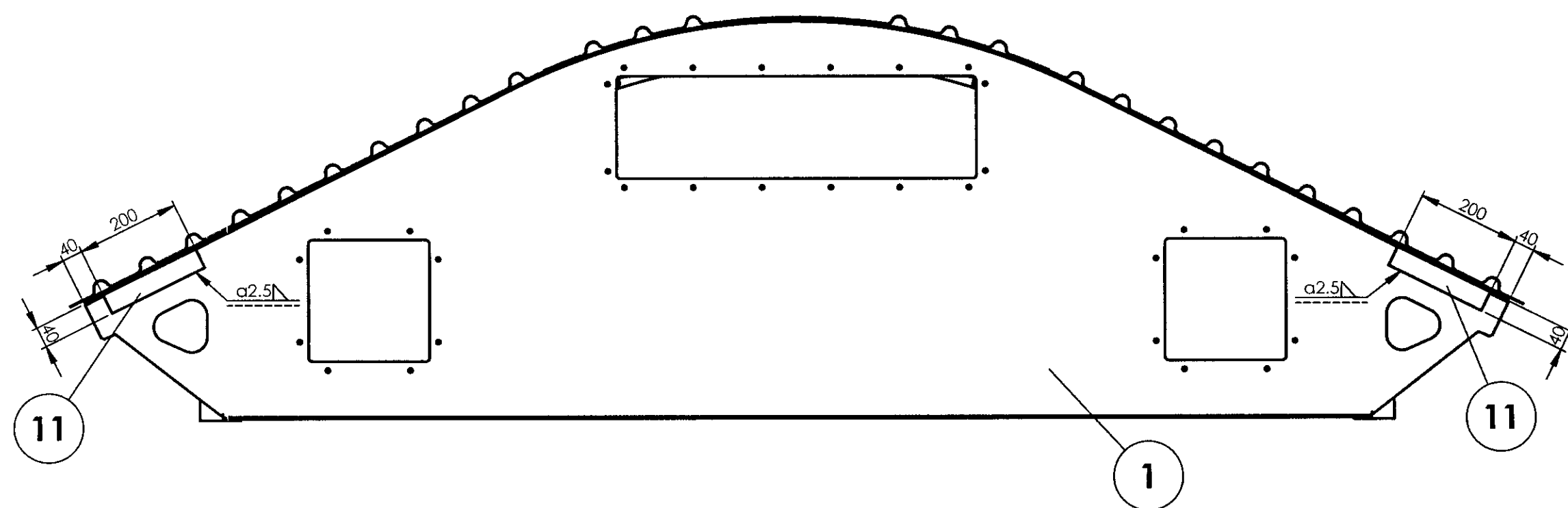
DETAIL K  
SCALE 1 : 5



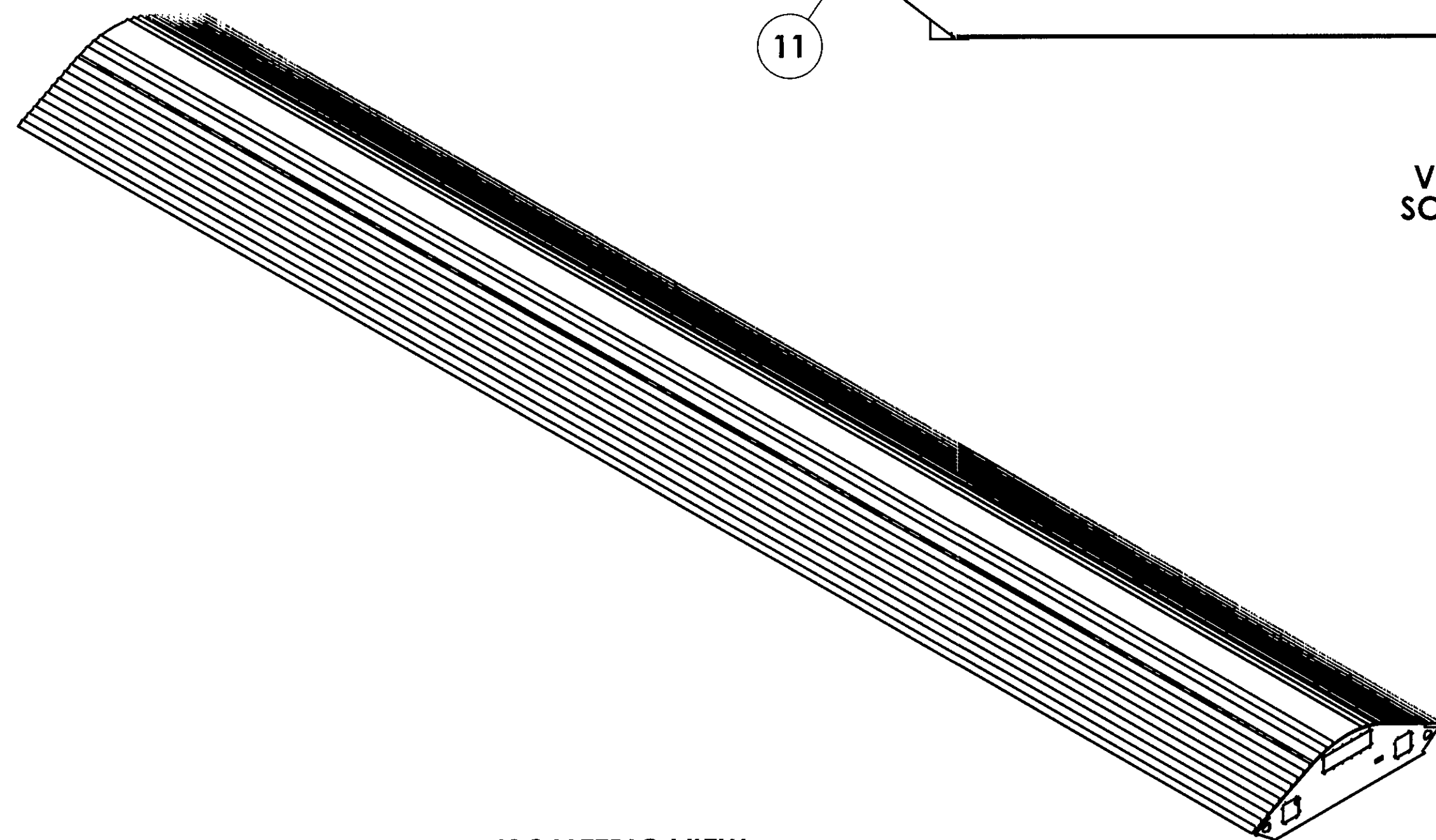
DETAIL L  
SCALE 1 : 5

**NOTE:**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. FINISHED ASSEMBLY SHALL BE APPLIED WITH (AIRLESS SPRAY) ECO FRIENDLY WATER BASED MODIFIED EPOXY ZINC PHOSPHATE ETCH PRIMER TO ICF/MD/SPEC-231.
10. CENTRELINE OF COACH SHALL BE MARKED AS PER DRG No. 64516025
11. LEAK PROOF WELDING SHALL BE ENSURED.
12. ITEM-12 (NAME PLATE) SHALL BE WELDED OR RIVETTED AT A SUITABLE LOCATION SHOWN IN THE DRAWING IF PROCURED FROM TRADE.
13. SCHEDULE OF TECHNICAL REQUIREMENTS FOR MANUFACTURE OF ROOF ASSEMBLY SHALL COMPLY TO ICF/M/D/SPEC-200 LATEST REVISION.



VIEW AT P  
SCALE 1 : 10



ISOMETRIC VIEW

1	NAME PLATE FOR SUPPLIER IDENTIFICATION		12	AAAS1072		0.063	
4	FLAT		11	AAD16791		0.25	
1	ROOF SHEET ASSEMBLY		10	82916013		722.19	
1	LAYOUT OF ELECTRICAL CONDUITS		9	82916008		191.42	
1	WELDING PIN ASSEMBLY		8	82916005		2.09	
1	WELDING PARTS ON ROOF ASSY		7	82916004		34.920	
1	STIFFENING ANGLE		6	AAF16181		1.699	
1	STIFFENING ANGLE		5	AAF16180		1.699	
1	STIFFENING ANGLE		4	AAF16179		2.004	
1	STIFFENING ANGLE		3	AAF16178		2.004	
3	ANGLE		2	AAB14336		0.13	
1	LOCATION OF ROOF ARCHES		1	82916002		341.584	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 ROOF

SURFACE AREA IN Sq.m.: 215.226

WT/ASSY IN Kgs:

**ROOF COMPLETE**

INDIAN RAILWAY STANDARDS  
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET  
2 OF 2

**82916001****A1**

REF.DRG.NO.LE16100.dtl-1

15-07-2025  
DATE OF LATEST ALT. DATE OF FIRST ISSUE  
NAME/SME



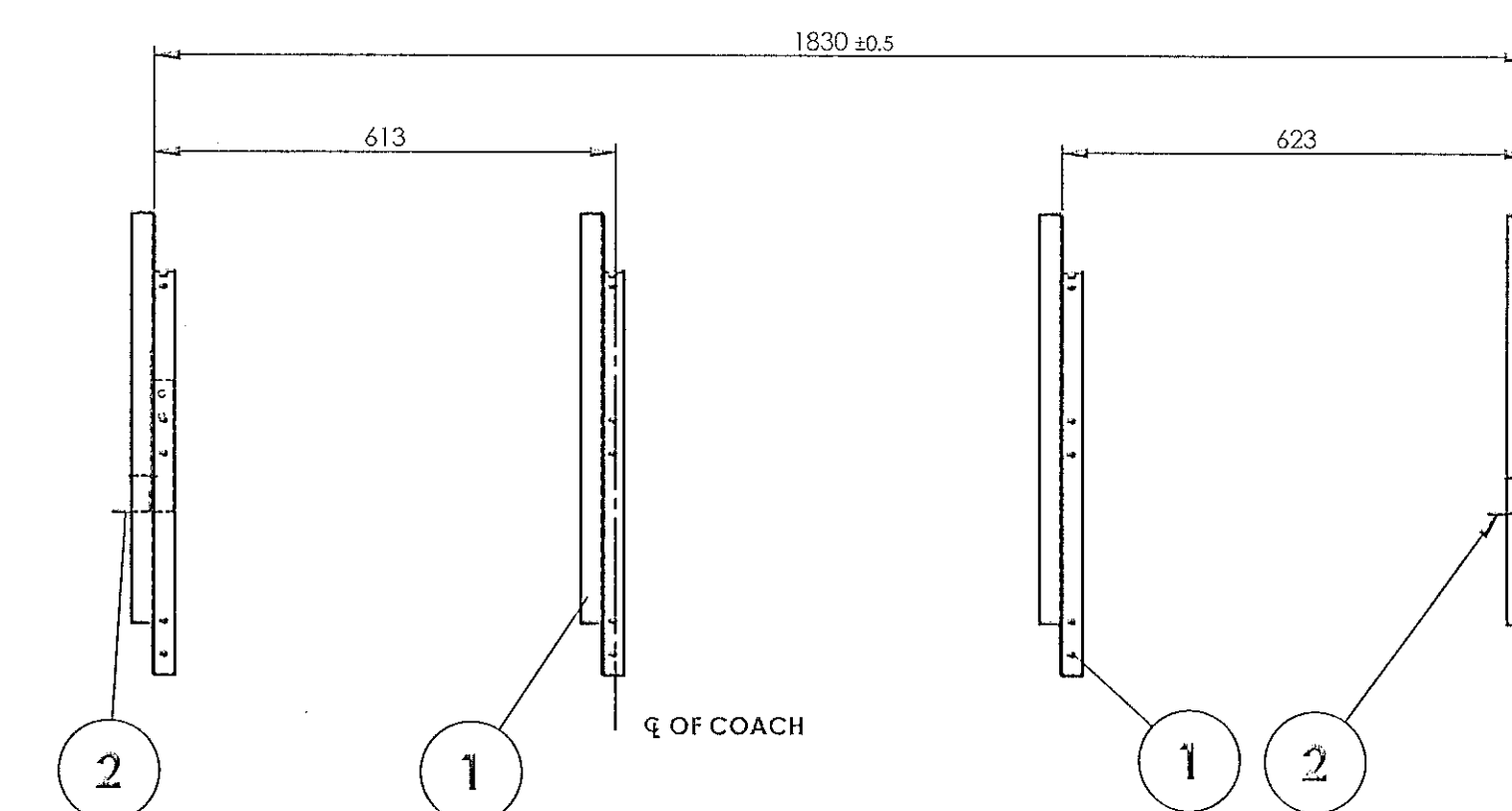
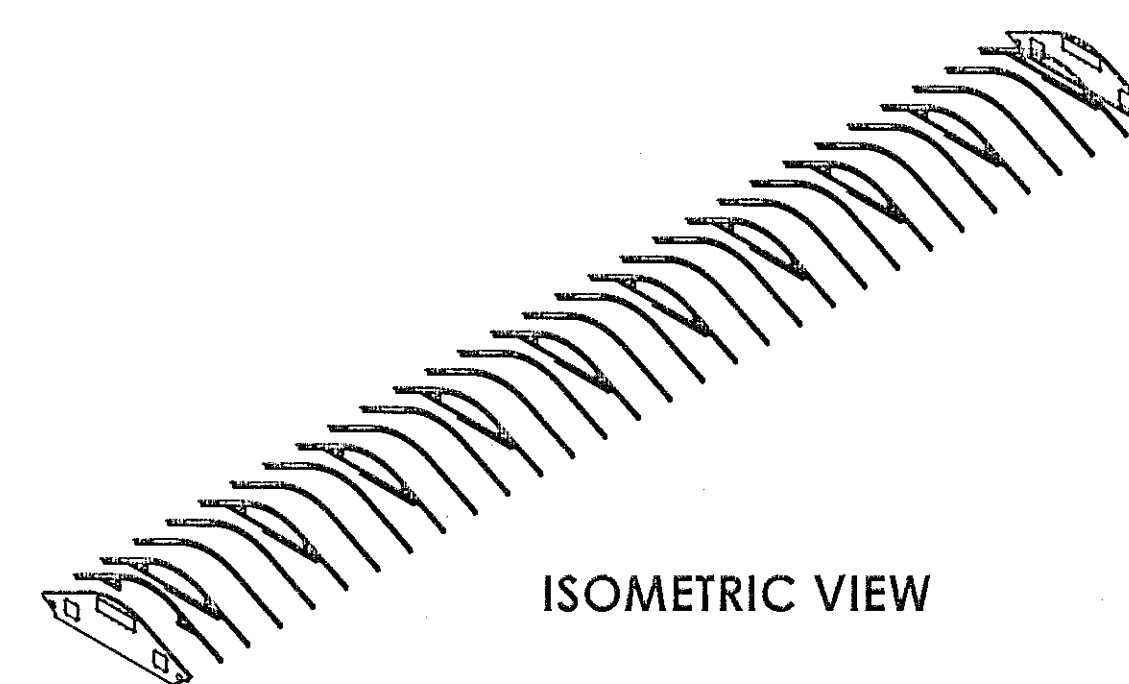
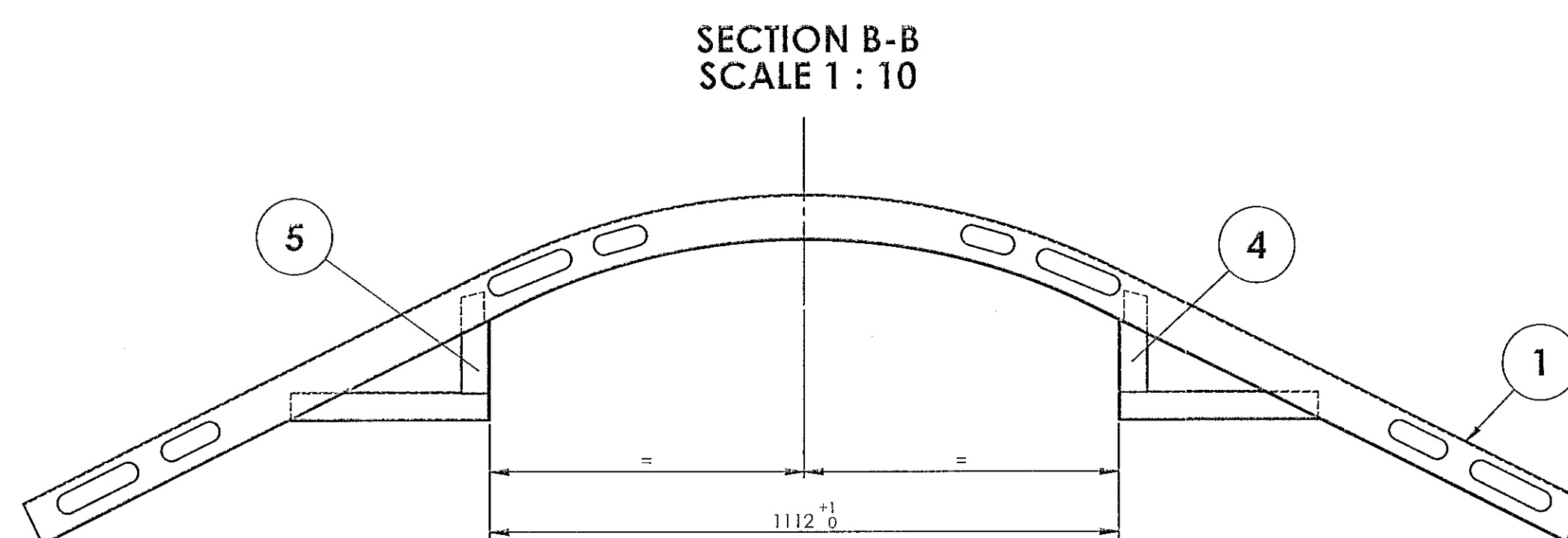
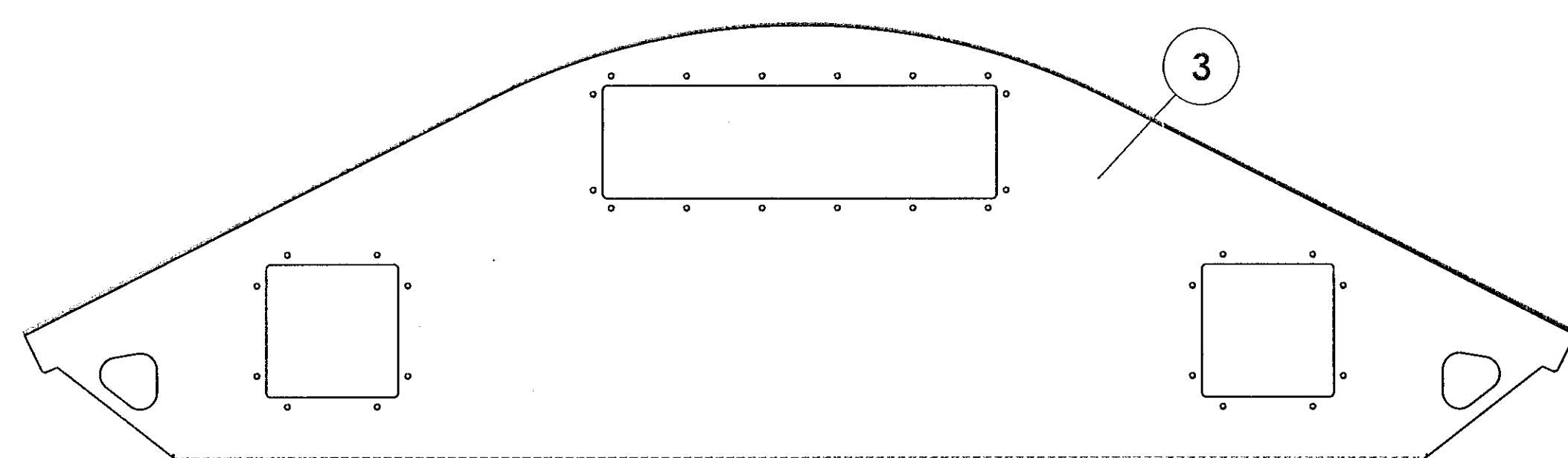
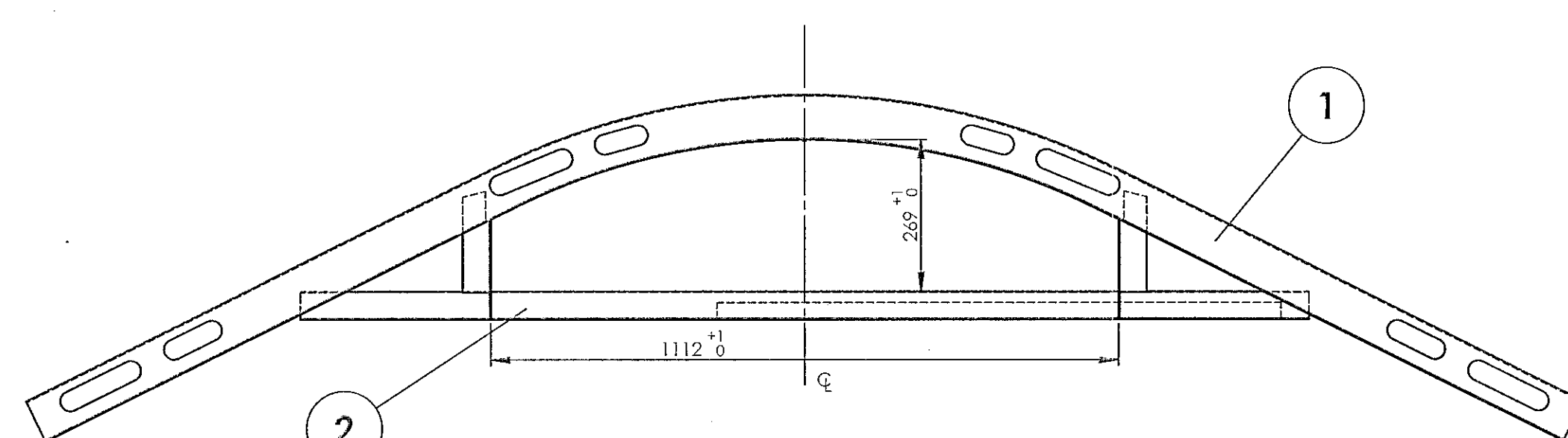
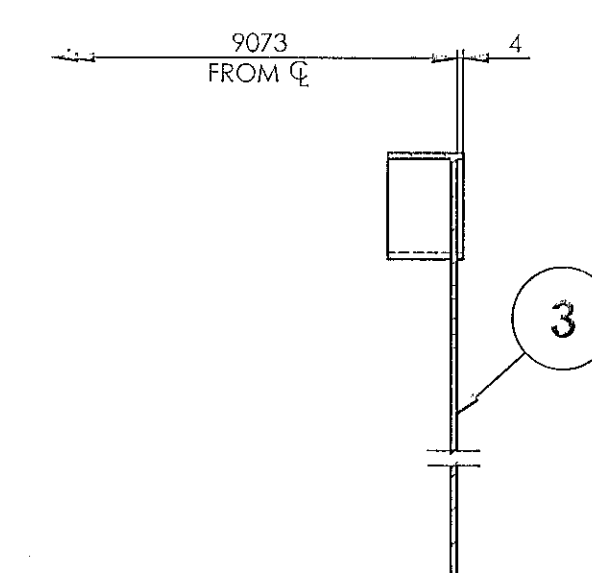
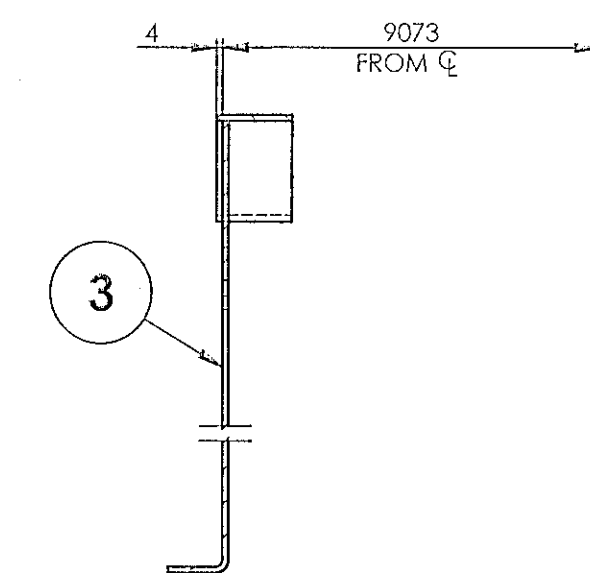
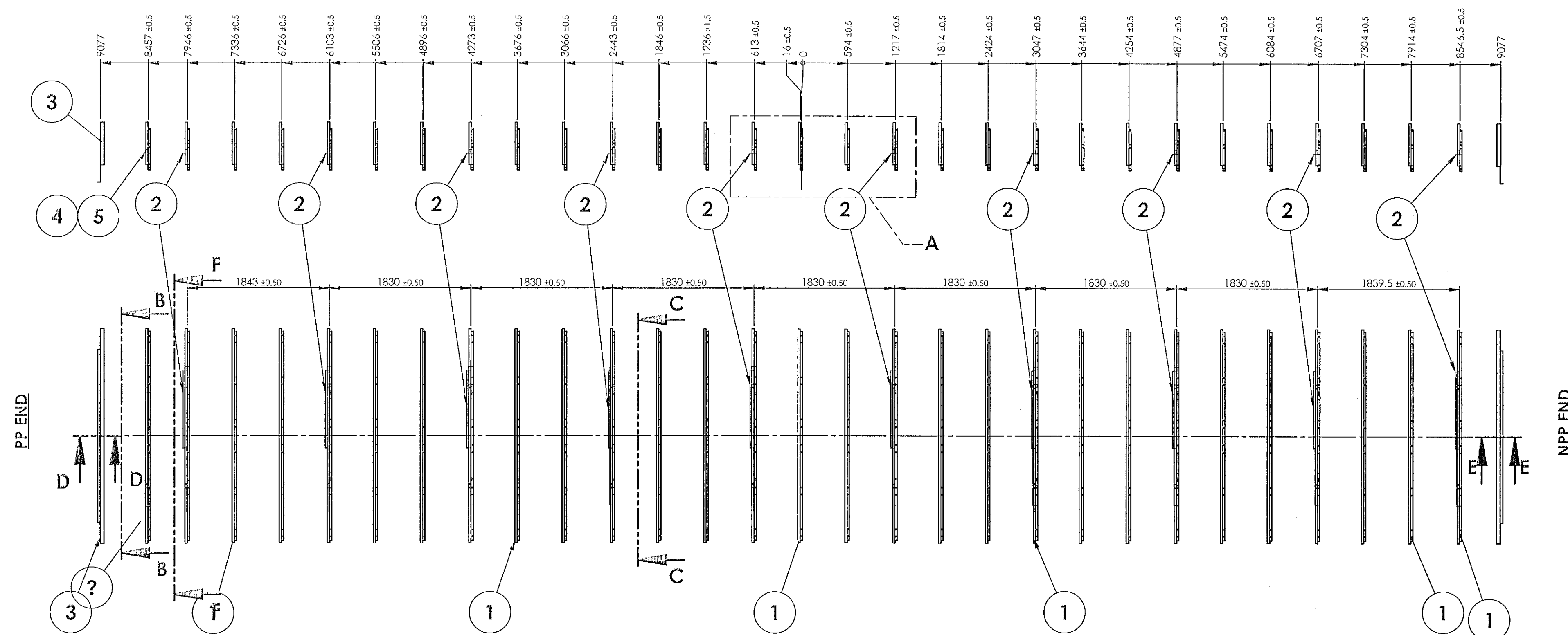
82916002

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

⑥ ROUGH CLEANED  
⑦ BURRS REMOVED  
⑧ CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		ITEMS-4.5 & SECTION F-F ADDED. VIEWS UPDATED.	V.R. 11/11



1	PART CROSSBRACE COMPLETE (LH)		5	82916019		773.69	
1	PART CROSS BRACE COMPLETE(RH)		4	82916018		773.70	
2	FINAL ROOF ARCH COMPLETE		3	82716014		45.262	
10	CROSS BRACE COMPLETE		2	64516003		4.540	
29	ROOF ARCH COMPLETE		1	AAF16101		7.09	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT	REMARKS

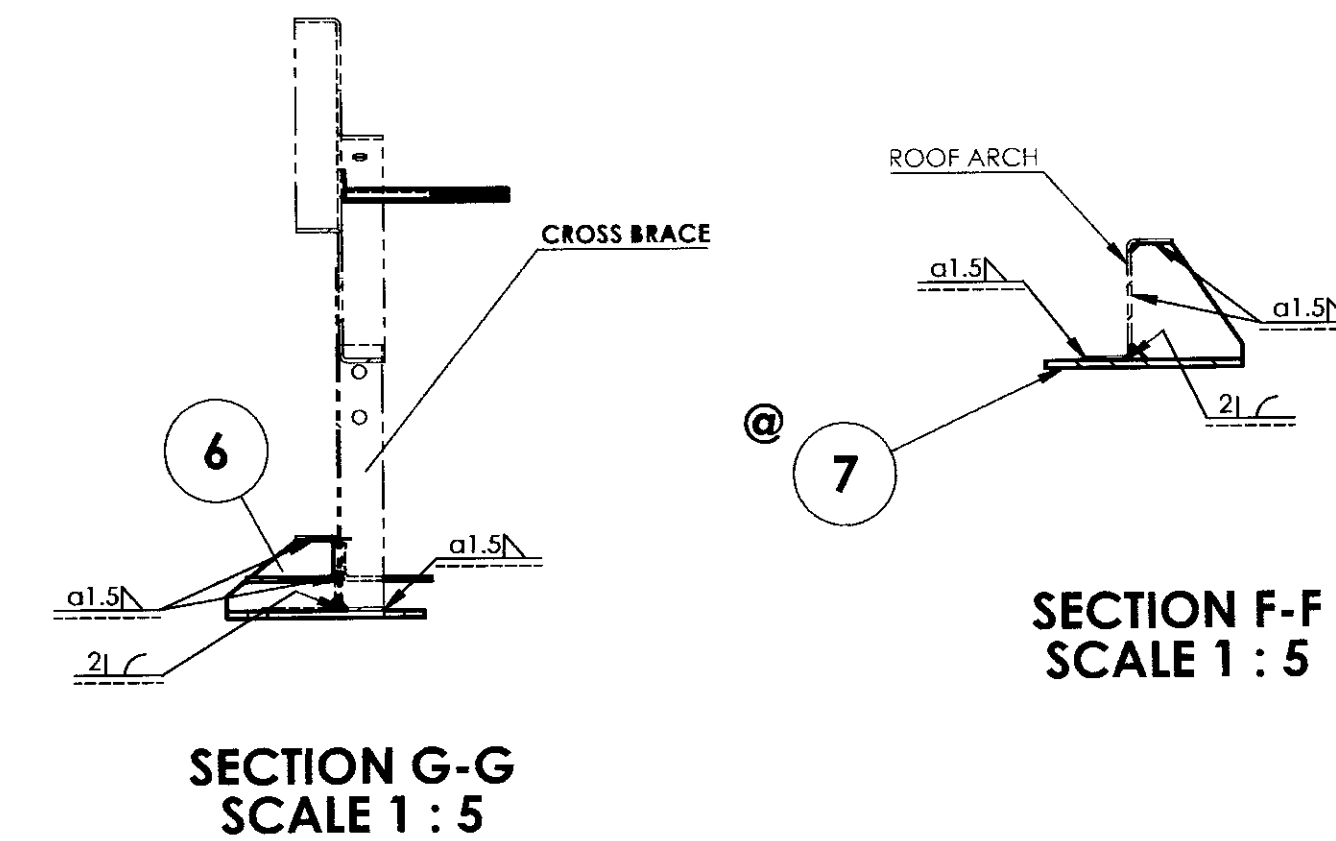
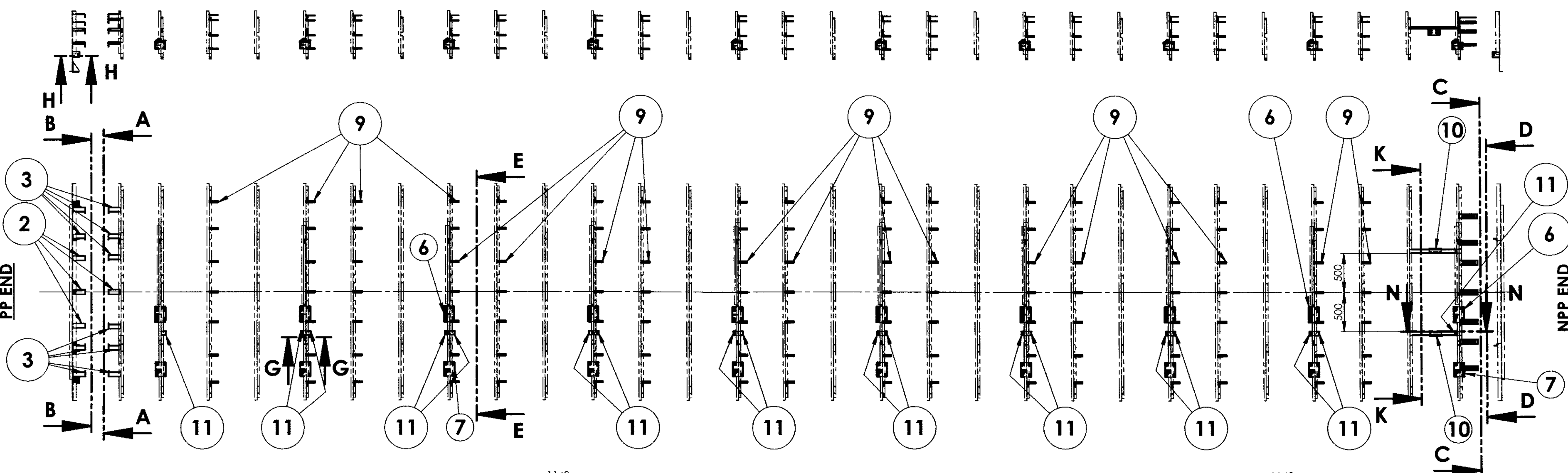
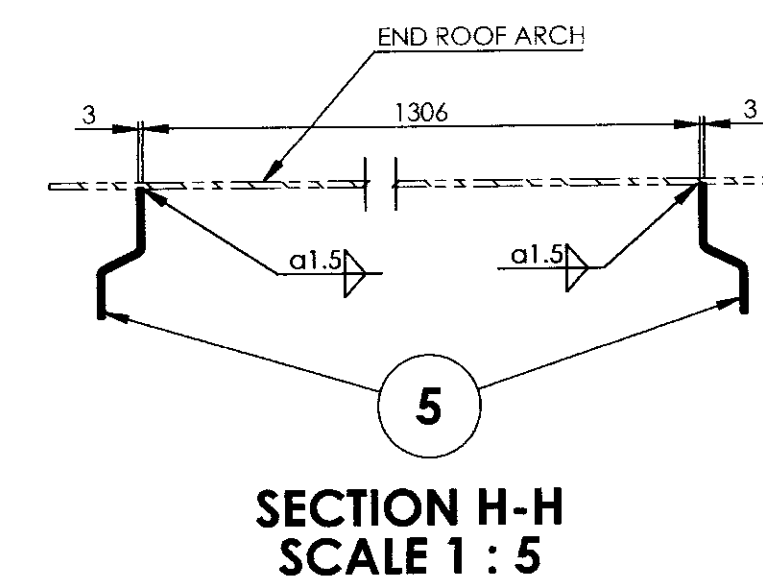
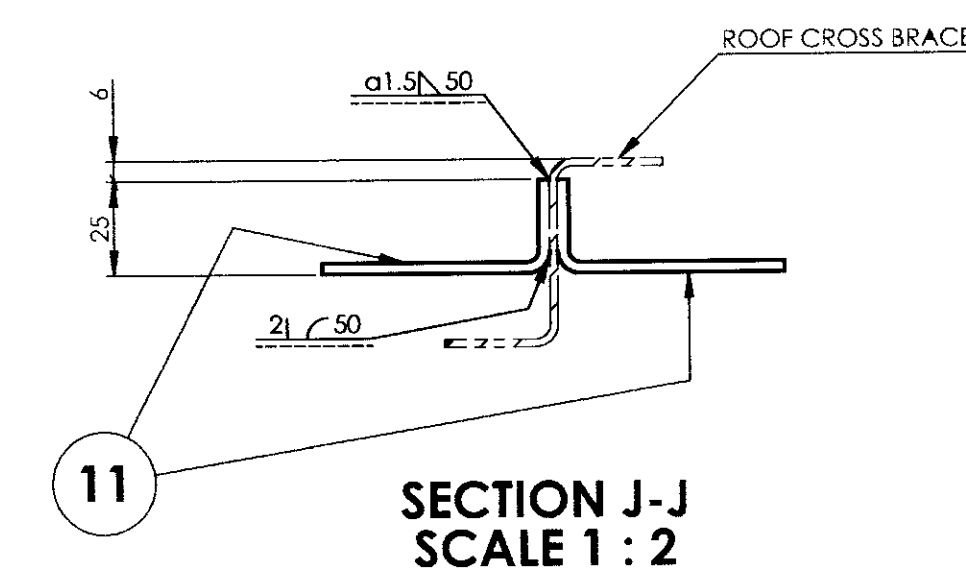
GROUP: 1-6 ROOF		SURFACE AREA IN Sq.m.: 33.032		WT/ASSY IN Kgs:	
SCALE 1:40		SSE/D		CHD	
ALT. a		ALTD		AMAL GEORGE	
		DRN		S.Bala V.subramani.	
INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		82916002	
INTEGRAL COACH FACTORY, CHENNAI - 600038				A1	

REF.DRG.NO.LE16100 qll-f

10-11-2025	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

82916004

▽ ROUGH MACHINED	(0) ROUGH CLEANED
▽▽ FINISH MACHINED	(10) BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	(15) CHAMFERED

SECTION F-F  
SCALE 1:5SECTION H-H  
SCALE 1:5SECTION J-J  
SCALE 1:2SECTION E-E  
SCALE 1:5SECTION A-A  
SCALE 1:5

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. CF/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. LE16115\_011-a

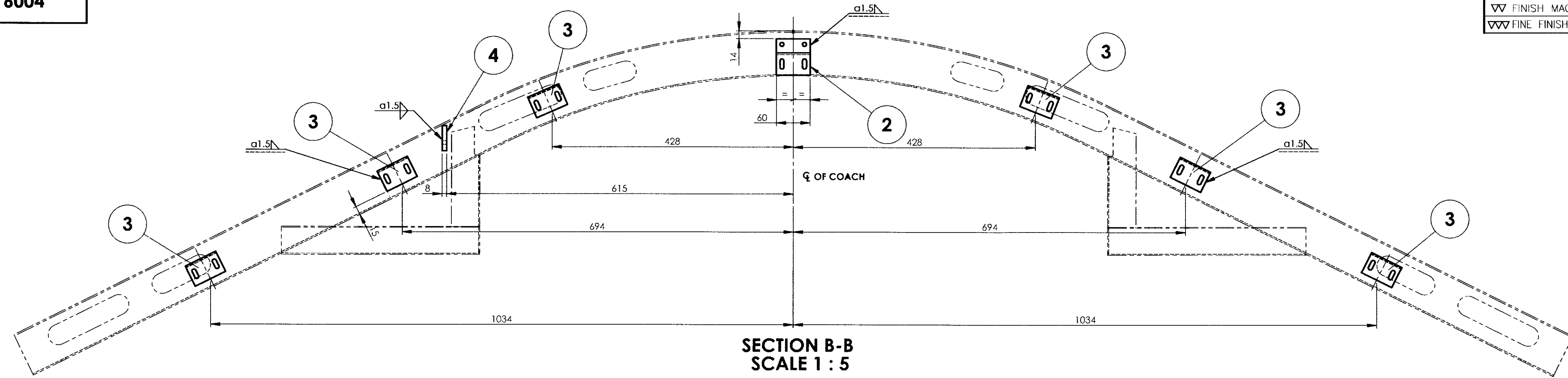
03-2026	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 36.075		WT/ASSY IN Kgs:	
SCALE 1:40		SSE/D		CHD	
ALT. b		ALTD		AMAL GEORGE	
		DRN		Amal George	
		LWACCN/PP2			
INDIAN RAILWAY STANDARDS		SHEET 1 OF 3		82916004	
INTEGRAL COACH FACTORY, CHENNAI - 600038				A1	

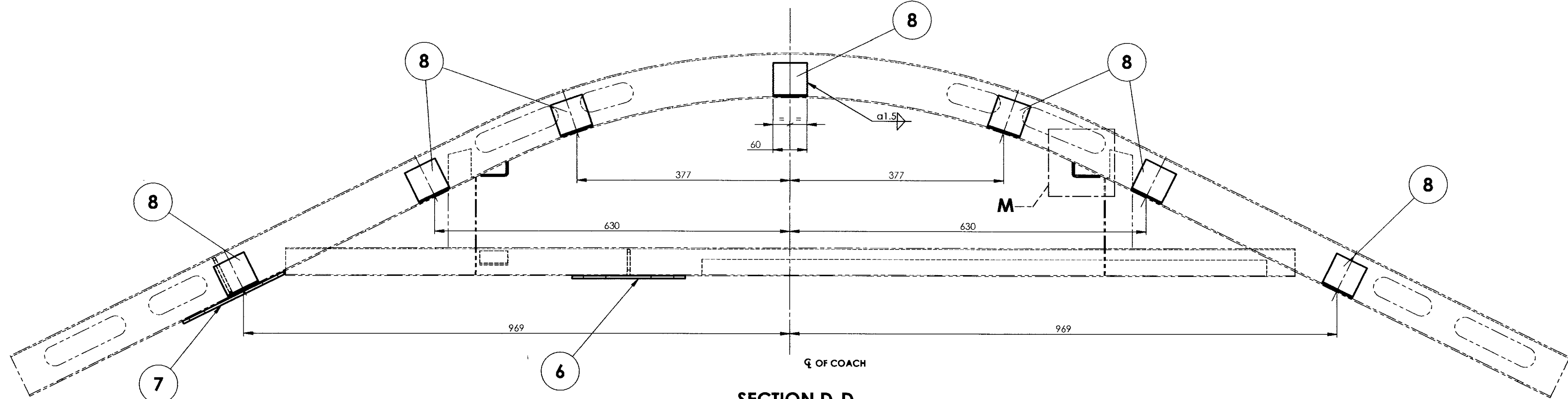


82916004

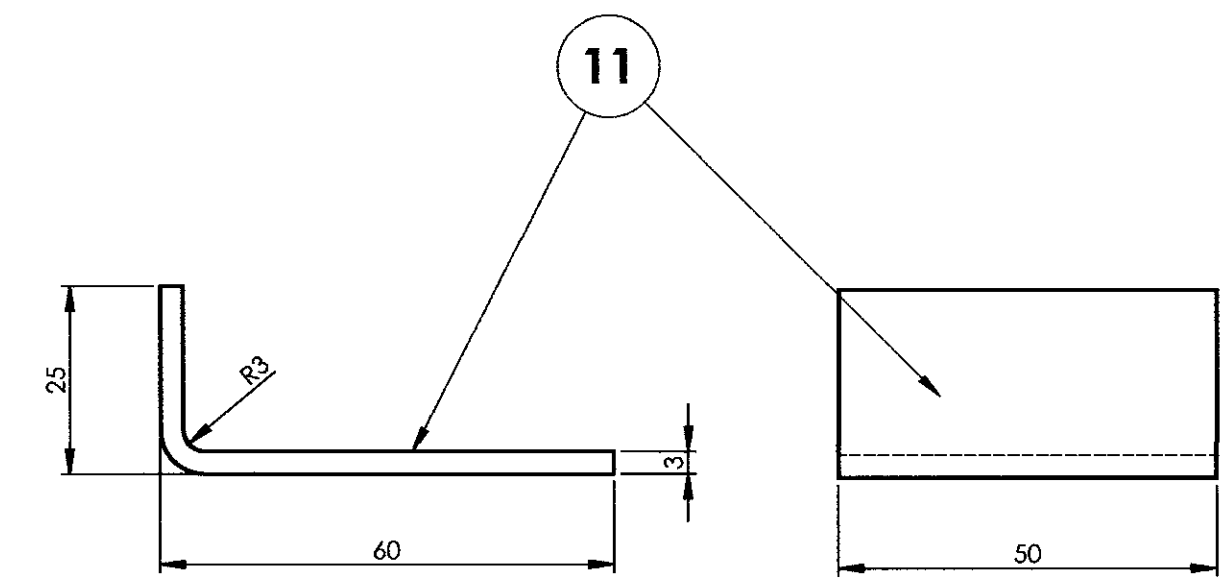
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①① BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①①① CHAMFERED



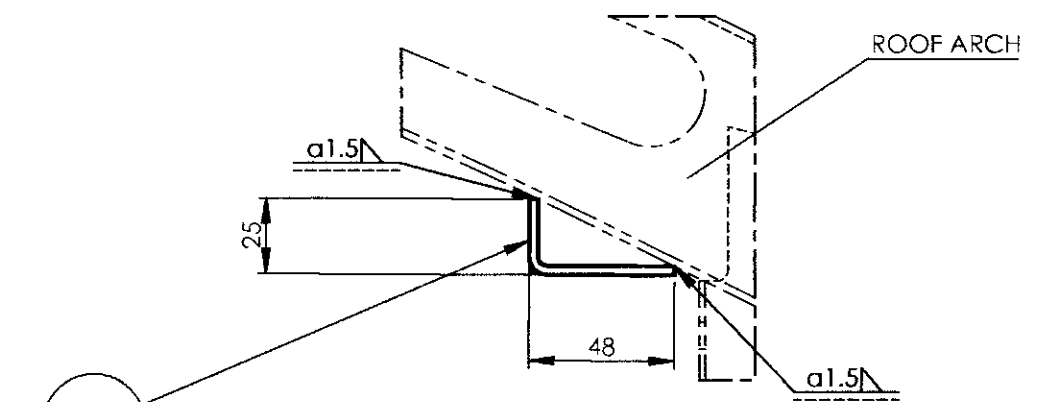
SECTION B-B  
SCALE 1 : 5



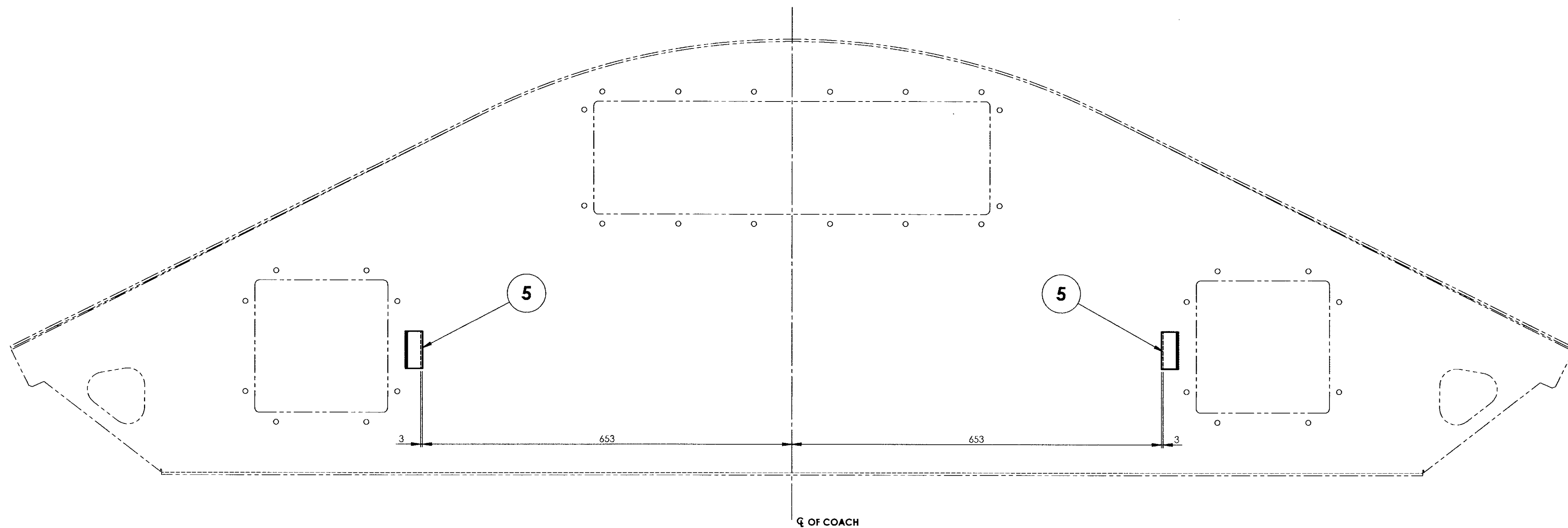
SECTION D-D  
SCALE 1 : 5



DETAIL FOR ITEM-11  
SCALE 1 : 1



DETAIL M  
SCALE 2 : 5



SECTION C-C  
SCALE 1 : 5

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 EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.

REF.DRG.NO.LE16115\_a11-a


03-2026	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

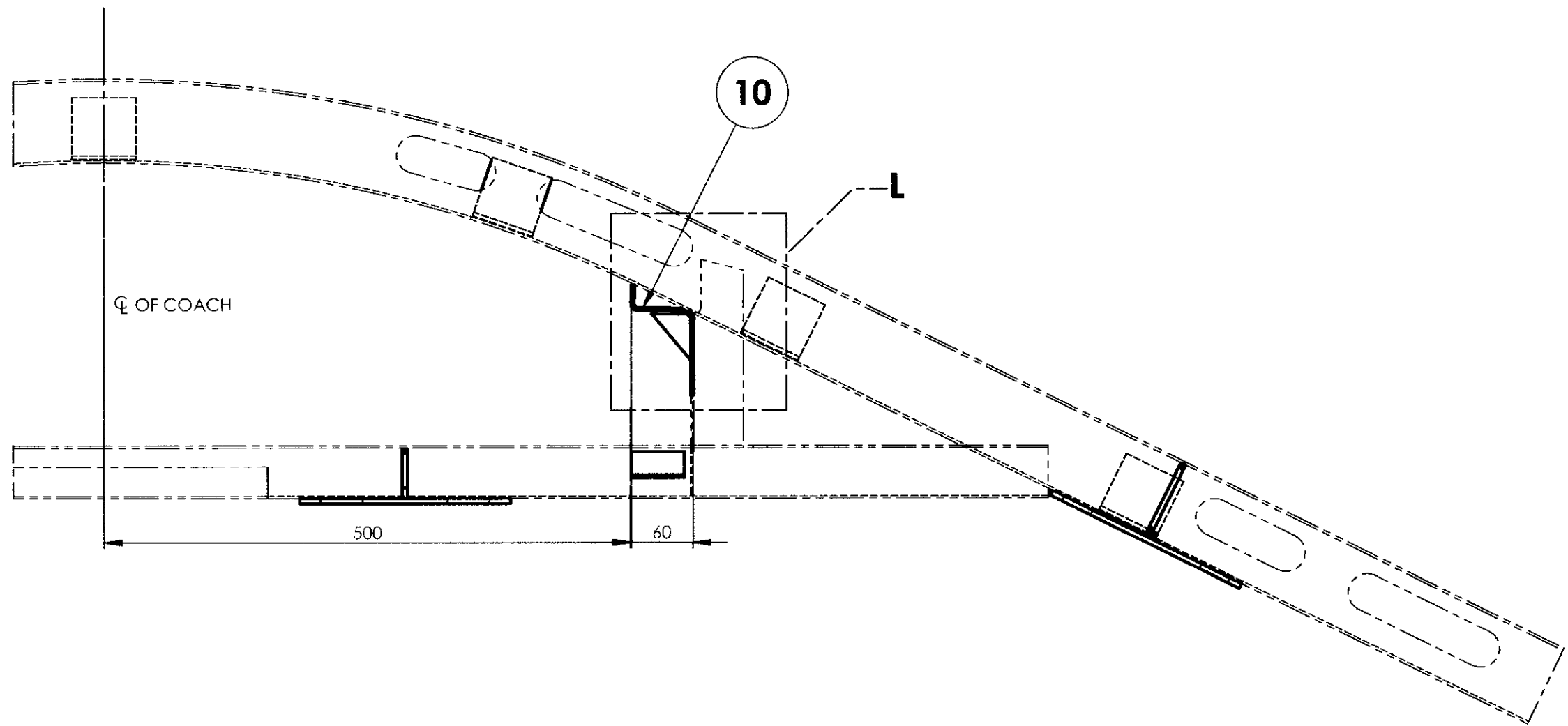
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 36.075		WT/ASSY IN Kgs:	
SCALE 1:40		SSE/D	CHD	AMAL GEORGE	
		ALT.	ALTD		
		b	DRN		
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				LWACCN/PP2	
SHEET 2 OF 3				82916004	
				A1	

82916004

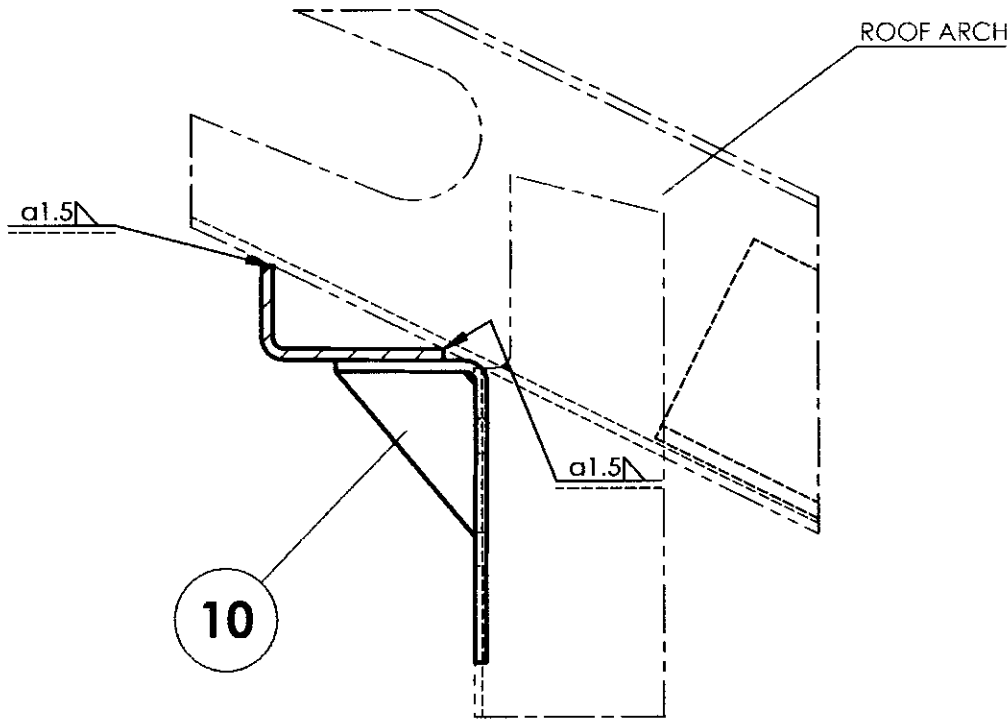
▽ ROUGH MACHINED  
▽▽ FINISH MACHINED  
▽▽▽ FINE FINISH MACHINED

⑩ ROUGH CLEANED  
⑩ BURRS REMOVED  
⑩ CHAMFERED

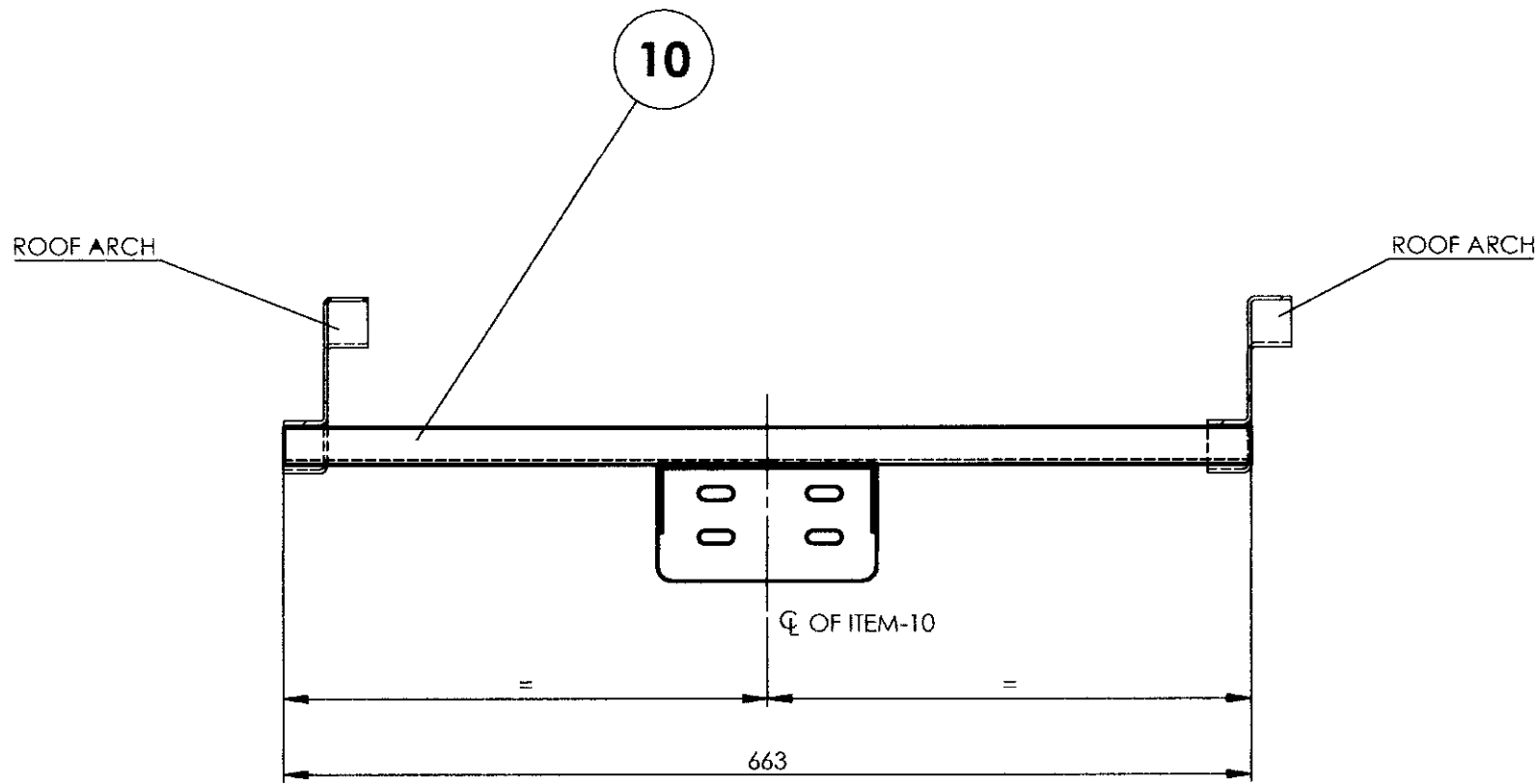
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		SHEET-3, ITEMS-10,11, SECTION J-J, K-K,N-N, DETAIL AT L, DETAIL AT M & DETAIL FOR ITEM-11 ADDED. VIEWS UPDATED.	-Sd-
b		QTY OF ITEMS-6&7 CORRECTED FROM 9,9 TO 10,10 RESPECTIVELY. VIEWS UPDATED ACCORDINGLY.	



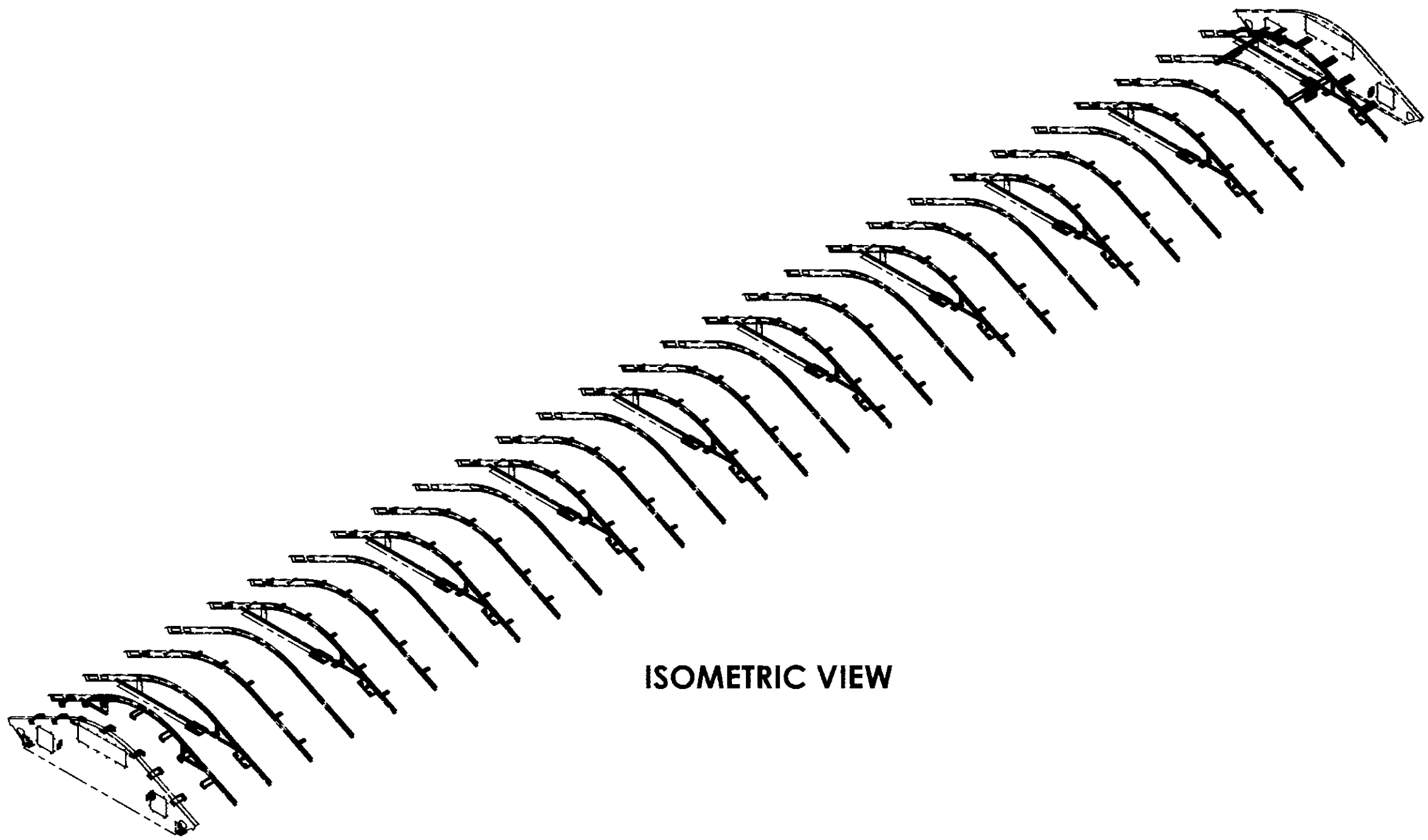
SECTION K-K  
SCALE 1 : 5



DETAIL L  
SCALE 1 : 2



SECTION N-N  
SCALE 1 : 5



ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. ITEM-7 SHALL BE SUPPLIED LOOSE AND WELDED AT SHELL ASSEMBLY STAGE.

18	ANGLE	3 x 50 x 79	11		RDSO SPEC C-K201 X2 Cr Ni 12	0.10	
2	BRACKET COMPLETE FOR FIXING AC DUCT (NPP END)		10	82916016		1.51	
119	BRACKET FOR CONDUIT FIXING		9	AAB16026		0.034	
7	ANGLE		8	AAE16518		0.396	
10	BRACKET FOR PILLAR MOUNTING ON ROOF		7	82916015		1.14	@
10	BRACKET FOR PARTITION PILLAR MOUNTING		6	82916014		1.06	
4	ANGLE		5	AAB16354		0.16	
1	GROUNDING FLAP		4	AAA16900		0.084	
10	BRACKET COMPLETE		3	AAB16344		0.315	
4	BRACKET		2	AAB16353		0.302	
2	BRACKET COMPLETE		1	59316008		0.497	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 36.075		WT/ASSY IN Kgs:	
SCALE 1:40		SSL/D		CHD	
ALT. b		ALTD		AMAL GEORGE	
DRN		DRN		Amal George	
INDIAN RAILWAY STANDARDS		SHEET 3 OF 3		LWACCN/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038		82916004		A1	

REF.DRG.NO.LE16115\_alt-a

25-03-2026	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

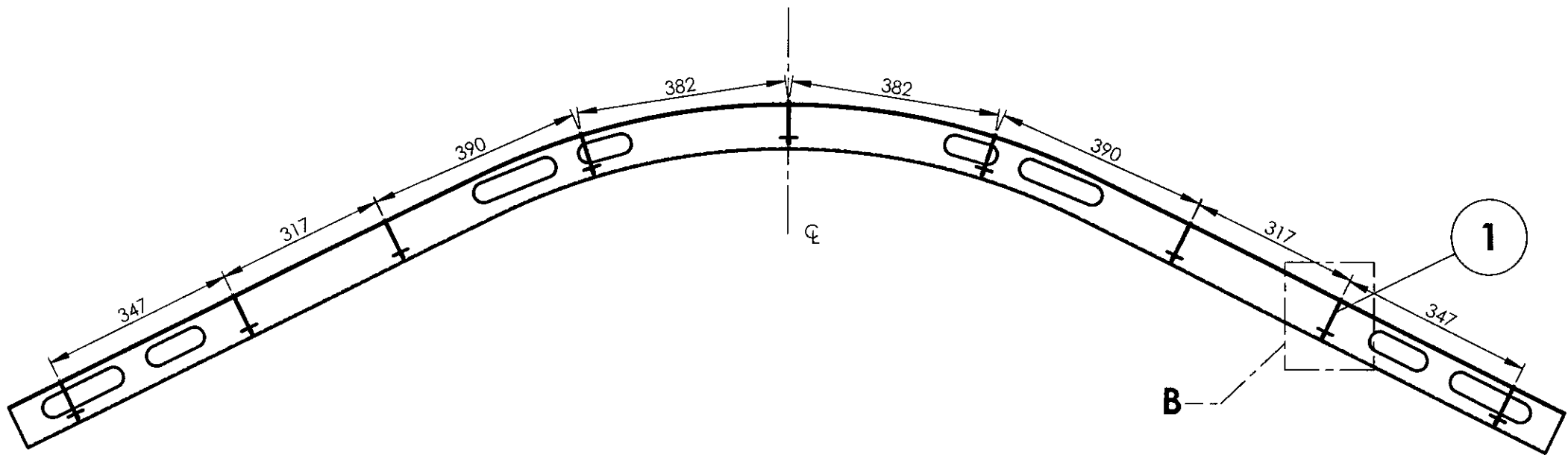
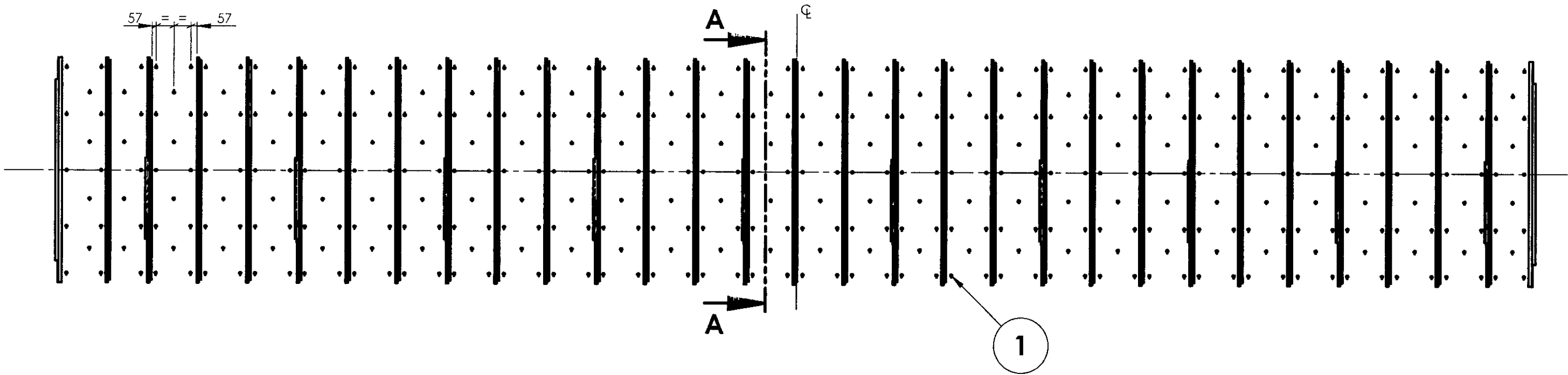
82916005

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

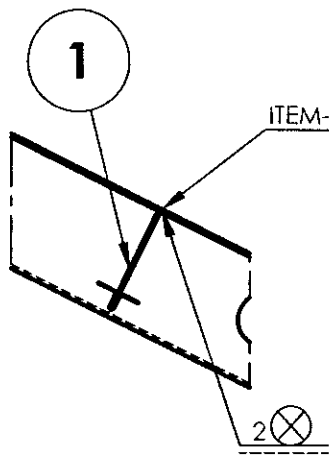
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

PP END

NPP END



SECTION A-A  
SCALE 1 : 10



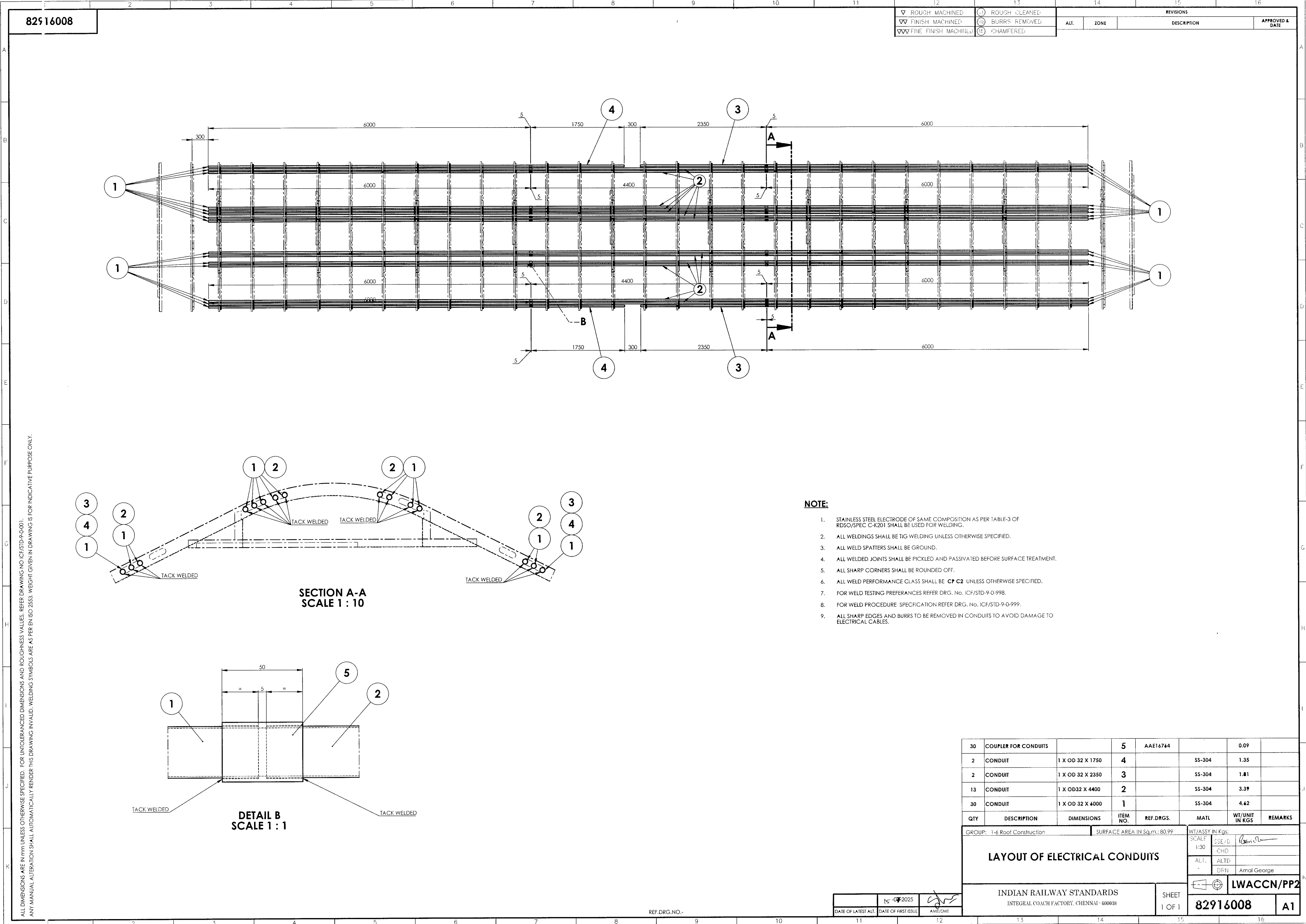
DETAIL B  
SCALE 1 : 5

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

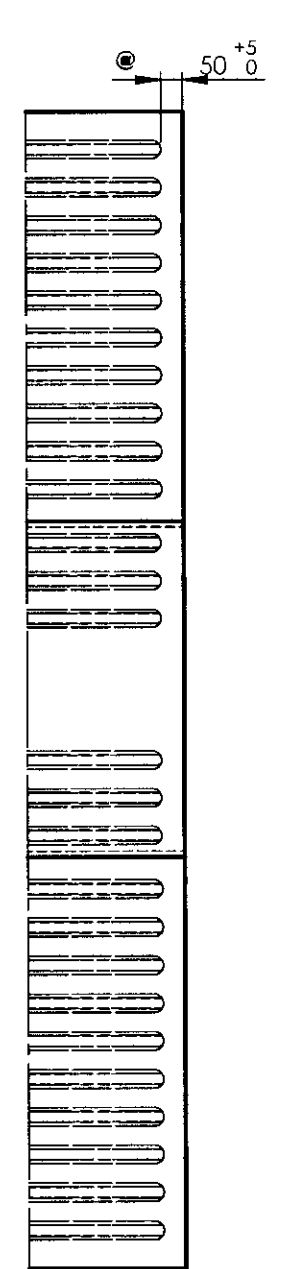
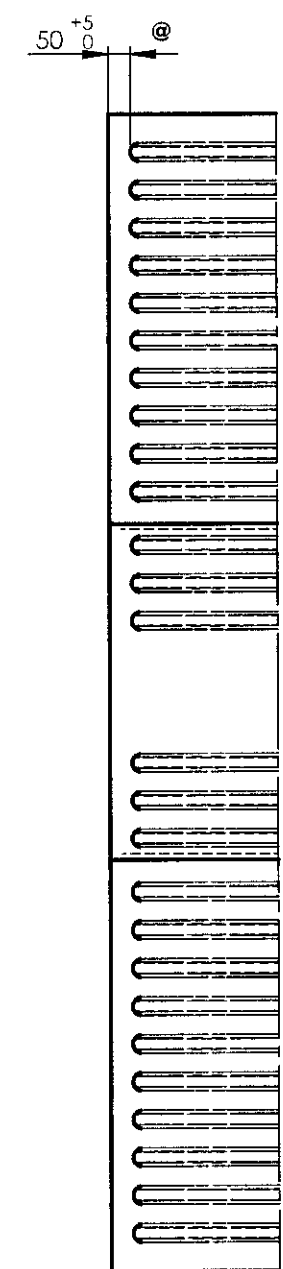
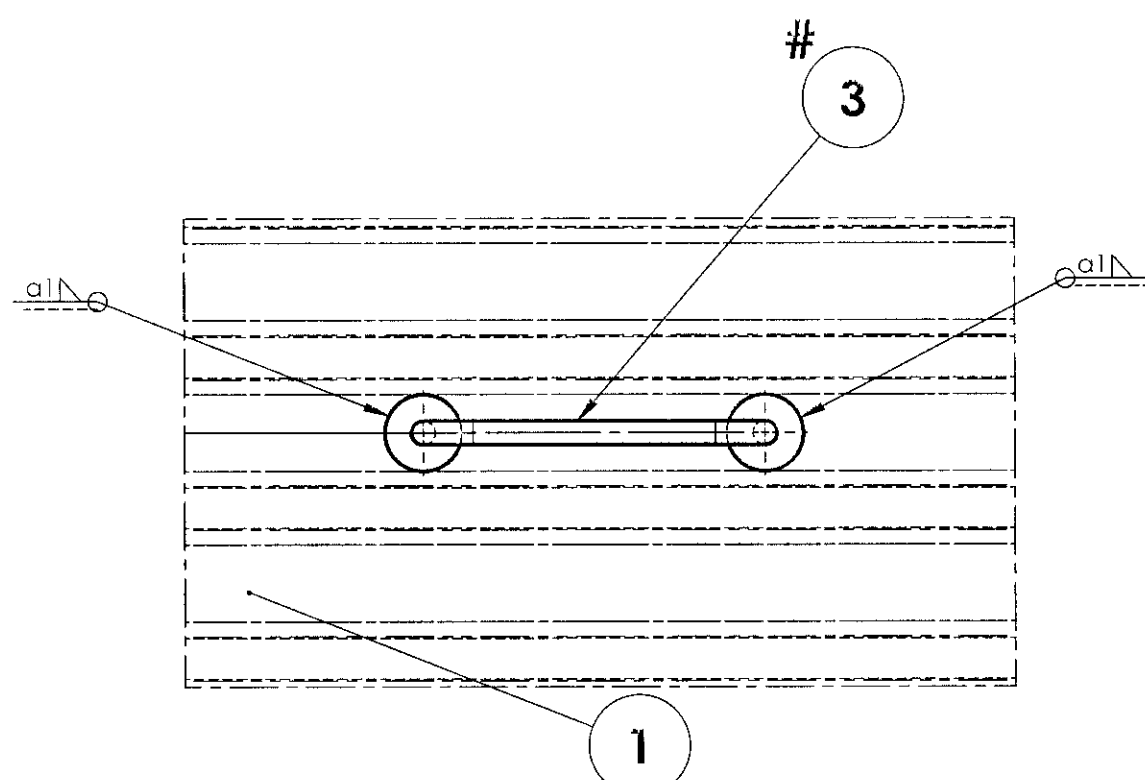
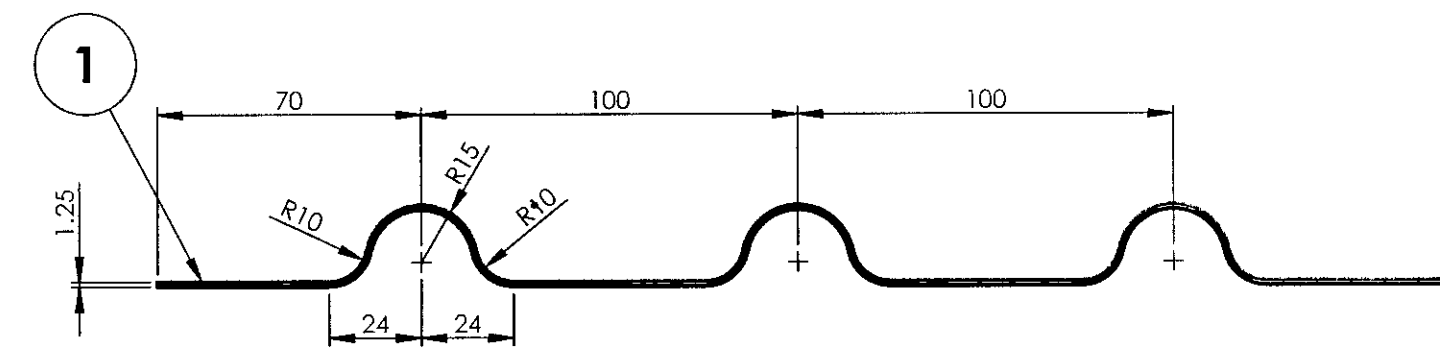
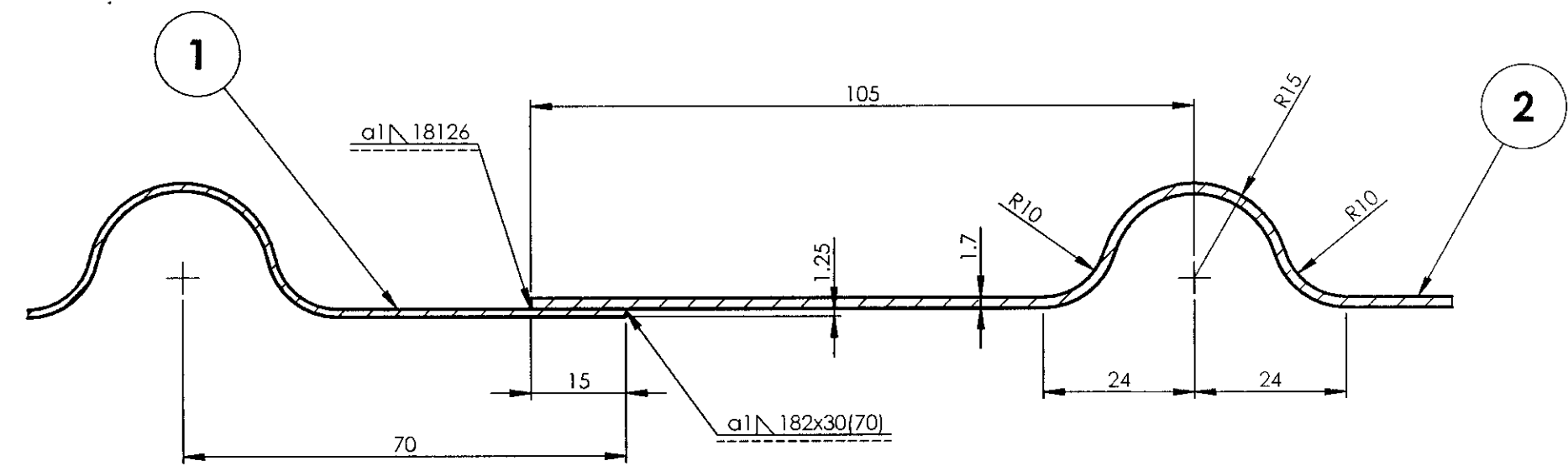
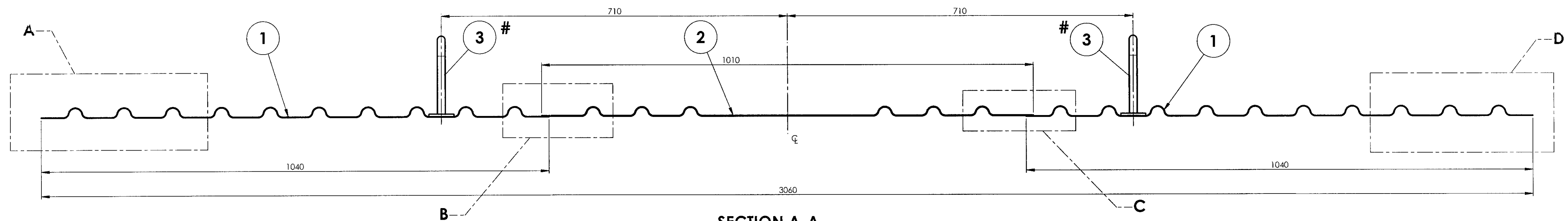
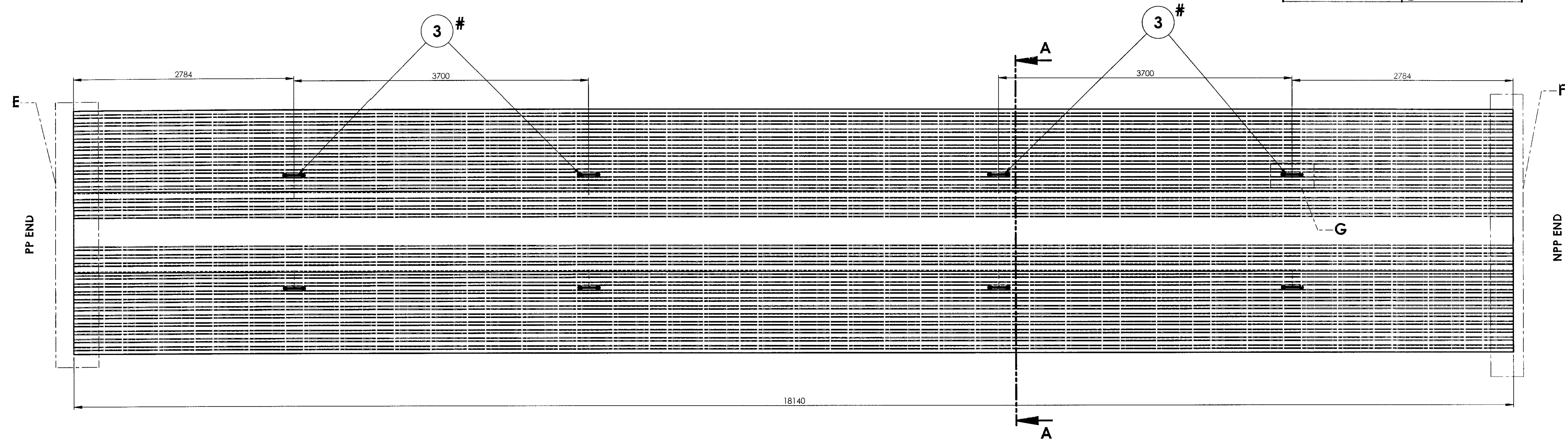
450	WELDING PIN ASSEMBLY		1	49516008		0.005	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.: 33.78		WT/ASSY IN Kgs:	
ARRANGEMENT OF WELDING PINS					SCALE 1:50	SSE/D	CHD
					ALT	ALTD	URN
							Amal George
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		LWACCN/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038				82916005		A2	

DATE OF LATEST ALT.	15-07-2025	AME/SME
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82916013

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



ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO IC/7/STD-9-001. 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.

DATE OF LATEST ALT.	15-04-2025	DATE OF FIRST ISSUE	AME/SME
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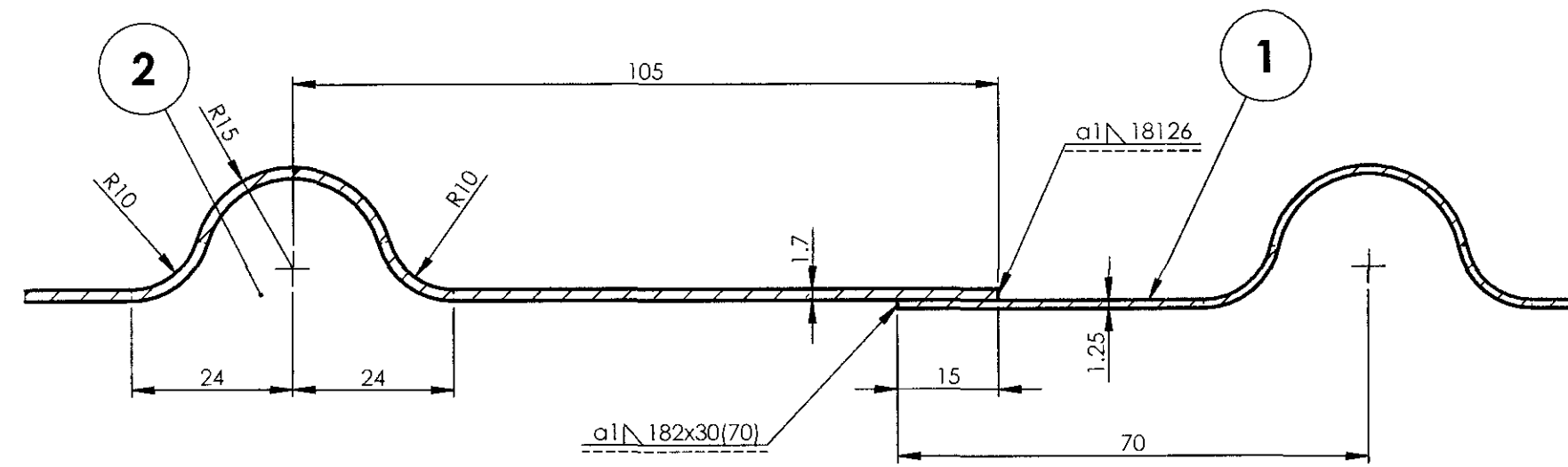
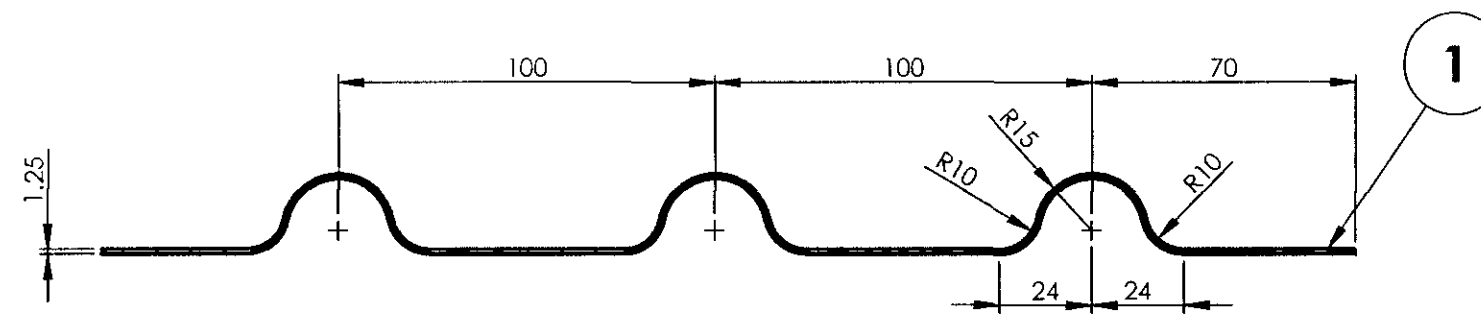
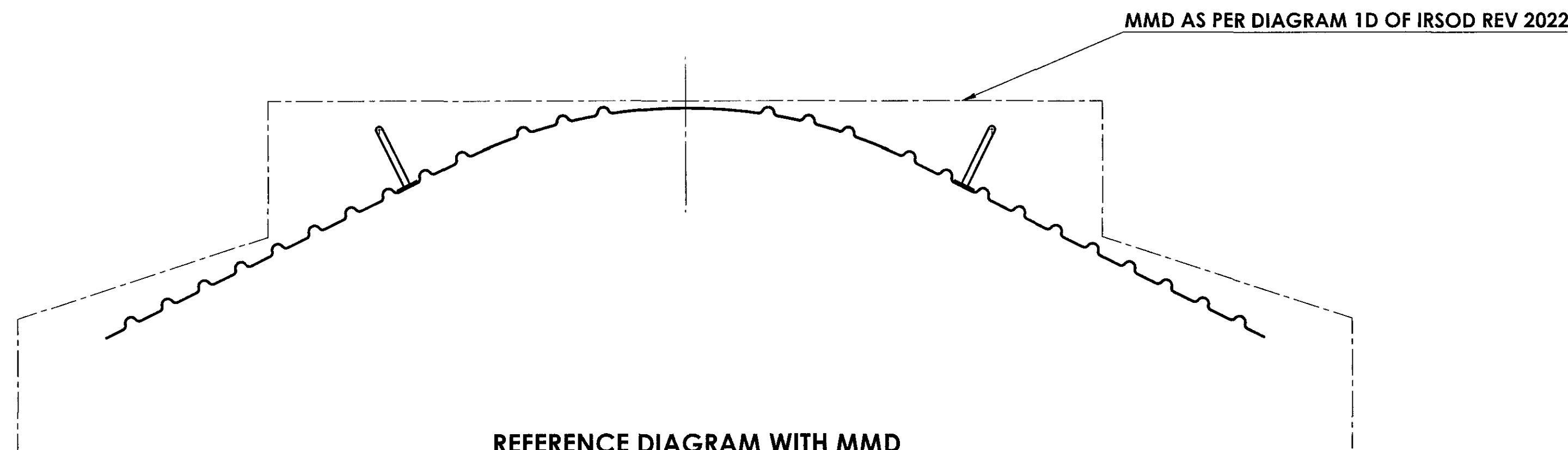
GROUP: 1-6 Roof Construction	SURFACE AREA IN Sq.m.: 130.25	WT/ASSY IN Kgs:
SCALE 1:30		SSE, D
CHD		ALT
ALTD		DRN
Amal George		
INDIAN RAILWAY STANDARDS		SHEET 1 OF 2
INTEGRAL COACH FACTORY, CHENNAI - 600038		82916013
		A1



82916013

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

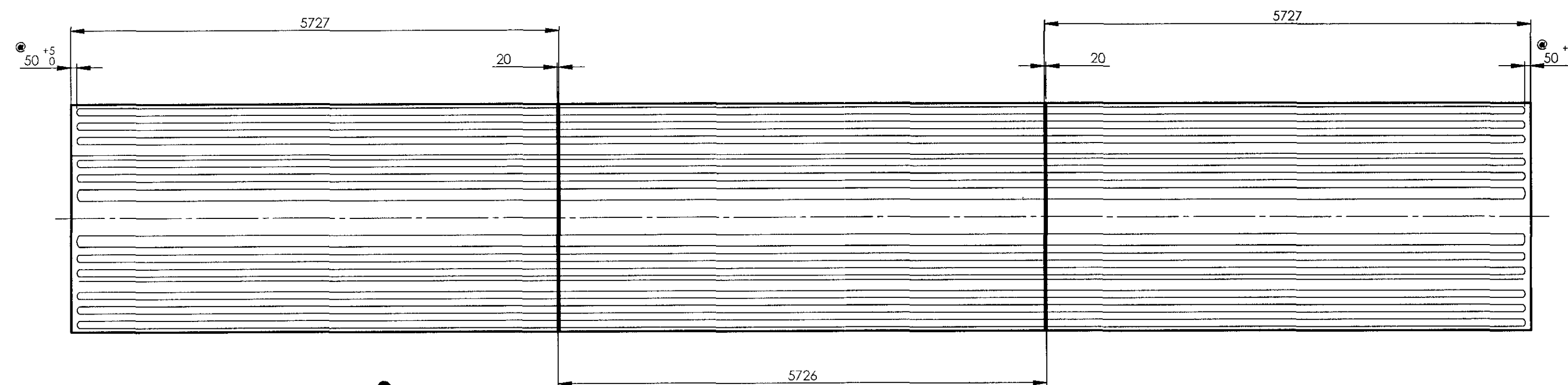
REVISIONS				APPROVED & DATE
ALT.	ZONE	DESCRIPTION		

DETAIL C  
SCALE 1 : 1DETAIL D  
SCALE 1 : 2

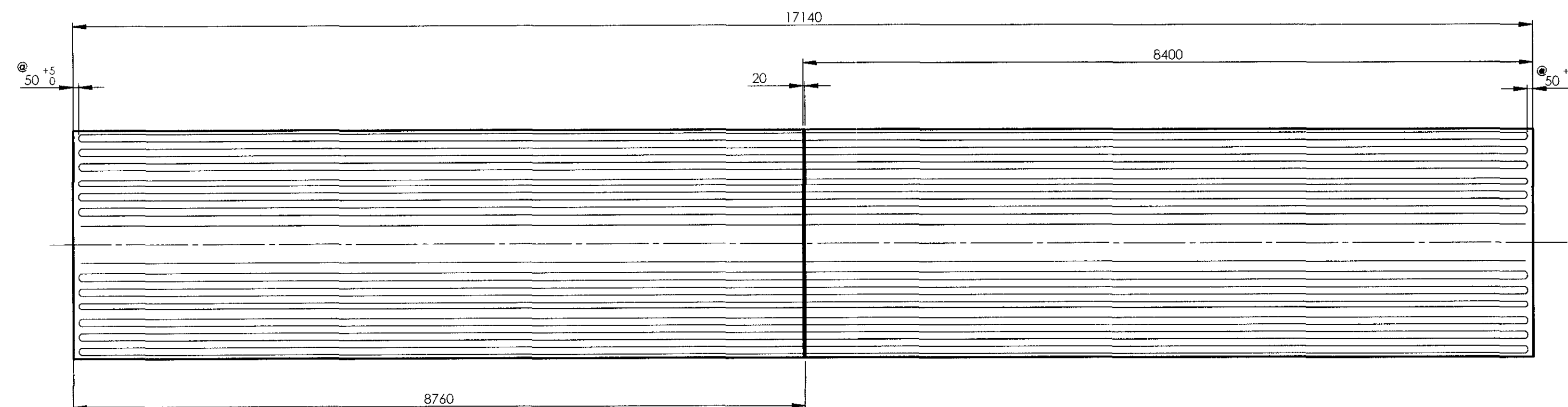
REFERENCE DIAGRAM WITH MMD

## NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
9. NIBBLER CUTTING TO 80mm, FLATTENING TO 50mm AND LEAK PROOF WELDING SHALL BE DONE ON ROOF SHEET CORRUGATIONS AT BOTH ENDS OF ROOF SHEET ASSEMBLY AS PER THE DRAWING. AFTER COMPLETING THESE OPERATIONS THE FINAL ROOF SHEET ASSEMBLY SHALL CONFORM TO THE IMAGE " **ANNEXURE-1 TO DRG 58214002.PDF** " .
10. ROOF SHEET ASSEMBLY CAN ALSO BE MADE WITH LAP JOINTS ALONG LONGITUDINAL DIRECTION AS PER ALTERNATE DESIGN 1 & 2 OF ROOF SHEET ASSEMBLY AS SHOWN IN THE DRAWING WITH AN OVERLAPPING LENGTH OF 20mm .
11. FOLLOWING ADDITIONAL NOTES ARE APPLICABLE ONLY FOR PROCUREMENT OF ROOF SHEET ASSEMBLIES FROM TRADE.
  - a) ROOF SHEET ASSEMBLY SHALL BE SUPPLIED AS SINGLE ASSEMBLY IF PROCURED FROM TRADE.
  - b) HANDLE COMPLETE TO DRG. NO. 87416034 SHALL BE SUPPLIED LOOSE & WELDED ON ROOF SHEET ASSEMBLY BEFORE ROOF ASSEMBLY STAGE. THIS ITEM SHALL BE CUT & REMOVED AFTER THE SHELL ASSEMBLY IS PLACED ON THE TRESTLE. (THIS NOTE IS APPLICABLE ONLY FOR ROOF SHEET ASSEMBLIES BOTH IN HOUSE AND RECEIVED FROM TRADE & NOT APPLICABLE FOR ROOF ASSEMBLY COMPLETE RECEIVED FROM TRADE)



&amp; ALTERNATE DESIGN-1 OF ROOF SHEET ASSEMBLY FOR TRANSVERSE JOINTS



&amp; ALTERNATE DESIGN-2 OF ROOF SHEET ASSEMBLY FOR TRANSVERSE JOINTS

8	HANDLE COMPLETE		3	87414034		0.96	
1	MIDDLE ROOF SHEET	1.7 x 1108 x 18140	2		RDSO SPEC C-K201 X5 Cr Ni 18 10	273.37	
2	ROOF SHEET PART	1.25 x 1235 x 18140	1		RDSO SPEC C-K201 X5 Cr Ni 18 10	224.00	
QTY.	DESCRIPTION	Dimensions	ITEM NO.	REF.DRG.	MATERIAL	Weight/Unit in Kgs	REMARKS

GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.: 130.25		WT/ASSY IN Kgs:	
ROOF SHEET ASSEMBLY		SCALE 1:30	SSE: D	LWACCN/PP2	
		ALT	ALTD		
		DRN	Amal George		
INDIAN RAILWAY STANDARDS		SHEET 2 OF 2		82916013	
INTEGRAL COACH FACTORY, CHENNAI - 600038				A1	

REF.DRG.NO.

DATE OF LATEST ALT.	15-07-2025	AME/SME
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82916014

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

① ROUGH CLEANED  
①b BURRS REMOVED  
⑱ CHAMFERED

REVISIONS

ALT. ZONE DESCRIPTION APPROVED & DATE

52  
73  
130

1  
2

1  
2

200  
5  
130

α3 60

**NOTE:**

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5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	RIB		2	AAF16194		0.10	
1	PLATE		1	AAF16195		0.96	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction SURFACE AREA IN Sq.m.:0.06 WT/ASSY IN Kgs:

**BRACKET FOR PARTITION PILLAR MOUNTING**

SCALE 1:2 SSE/D CHD  
ALT. ALTD  
DRN Amal George

INDIAN RAILWAY STANDARDS  
INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET 1 OF 1

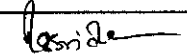
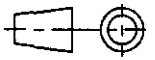
82916014 A3

REF.DRG.NO.87416006 Alt NIL

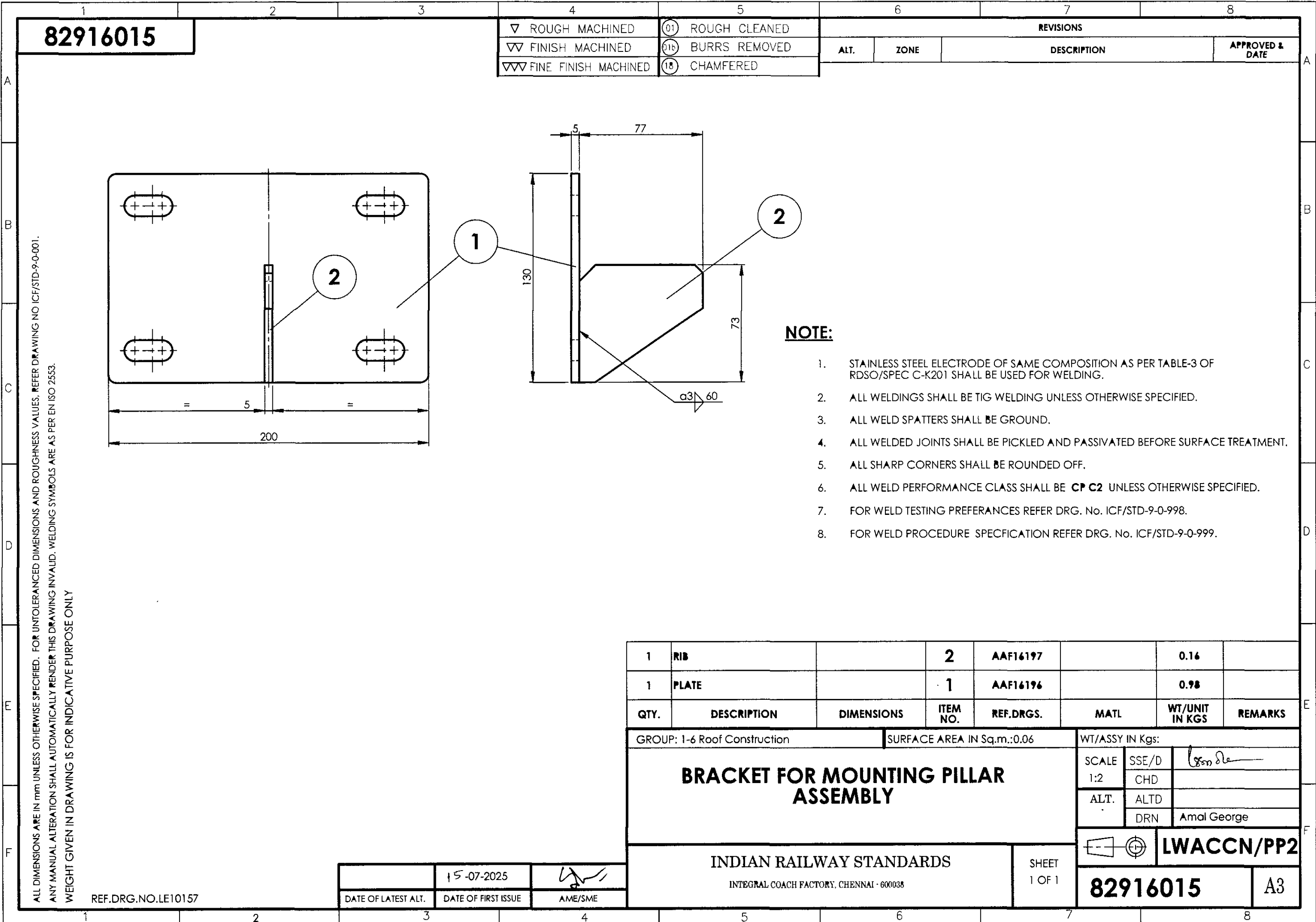
15-07-2025  
DATE OF LATEST ALT. DATE OF FIRST ISSUE A ME/SME

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

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7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

1	RIB		2	AAF16194		0.10	
1	PLATE		1	AAF16195		0.96	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.06		WT/ASSY IN Kgs:			
<b>BRACKET FOR PARTITION PILLAR MOUNTING</b>				SCALE	SSE/D		
				1:2	CHD		
				ALT.	ALTD		
					DRN	Amal George	
<b>INDIAN RAILWAY STANDARDS</b> INTEGRAL COACH FACTORY, CHENNAI - 600038						<b>LWACCN/PP2</b>	
						<b>82916014</b>	
				SHEET 1 OF 1		<b>A3</b>	

1		2		3		4		5		6		7		8																
82916015				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																						
				▽▽ FINISH MACHINED		② BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE															
				▽▽▽ FINE FINISH MACHINED		③ CHAMFERED																								
								<p><b>NOTE:</b></p> <ol style="list-style-type: none"><li>1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.</li><li>2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.</li><li>3. ALL WELD SPATTERS SHALL BE GROUND.</li><li>4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.</li><li>5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.</li><li>6. ALL WELD PERFORMANCE CLASS SHALL BE <b>CP C2</b> UNLESS OTHERWISE SPECIFIED.</li><li>7. FOR WELD TESTING PREFERANCES REFER DRG. No. ICF/STD-9-0-998.</li><li>8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.</li></ol>																						
<p>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</p>															1		RIB				2		AAF16197				0.16			
															1		PLATE				1		AAF16196				0.98			
															QTY.		DESCRIPTION		DIMENSIONS		ITEM NO.		REF.DRGS.		MATL		WT/UNIT IN KGS		REMARKS	
															GROUP: 1-6 Roof Construction										SURFACE AREA IN Sq.m.:0.06			WT/ASSY IN Kgs:		
BRACKET FOR MOUNTING PILLAR ASSEMBLY										SCALE 1:2		SSE/D		CHD																
										ALT.		ALTD		DRN																
														Amal George																
INDIAN RAILWAY STANDARDS										SHEET 1 OF 1		LWACCN/PP2																		
INTEGRAL COACH FACTORY, CHENNAI - 600038												82916015					A3													
REF.DRG.NO.LE10157		15-07-2025		AME/SME																										
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																										

[illegible]

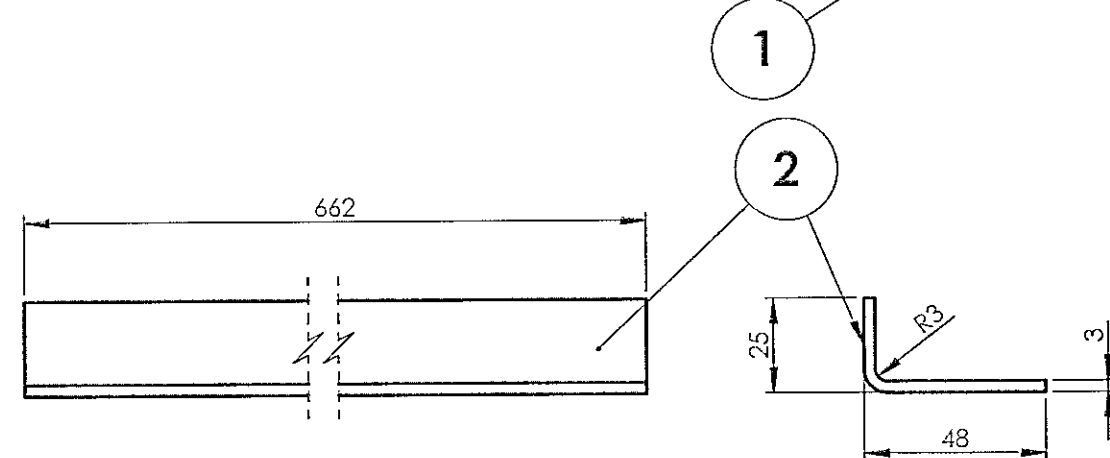
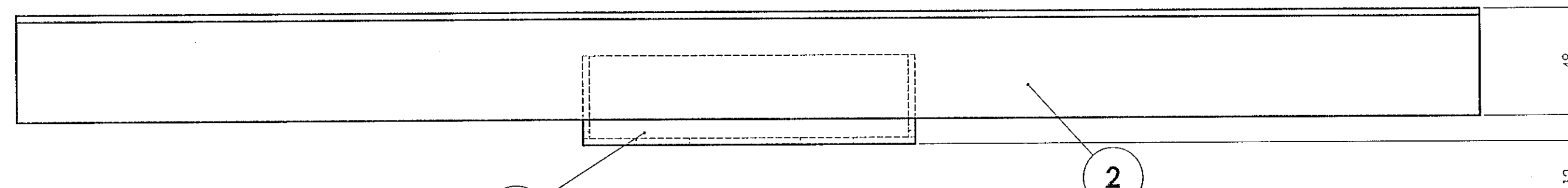
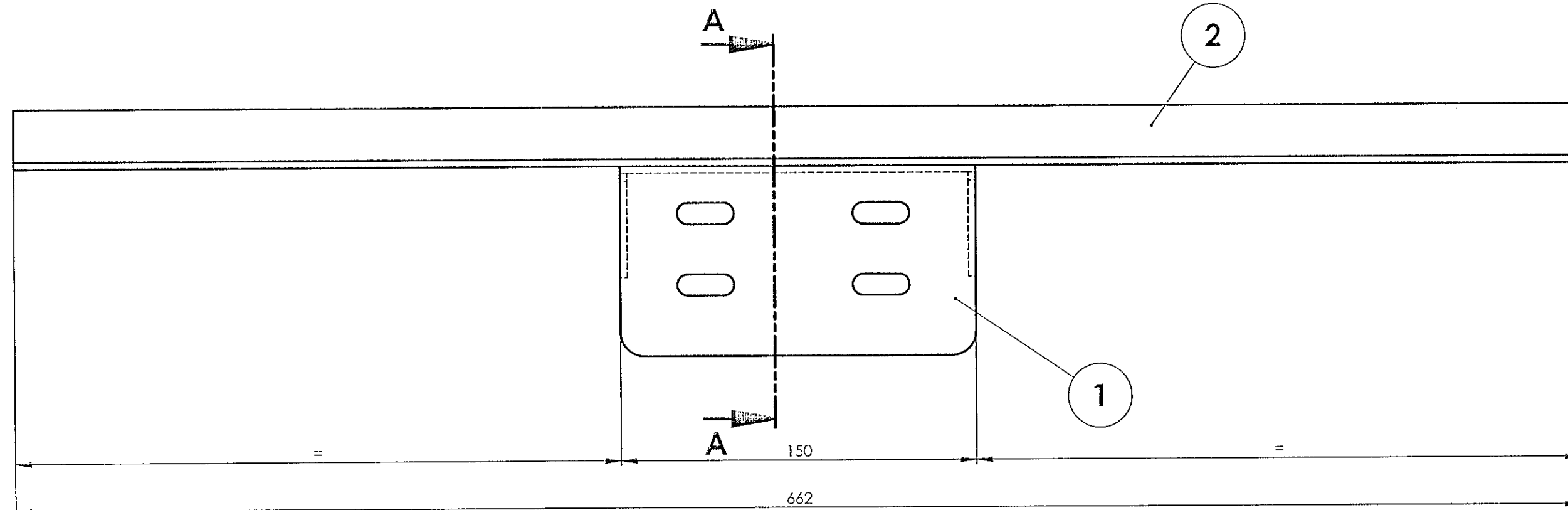
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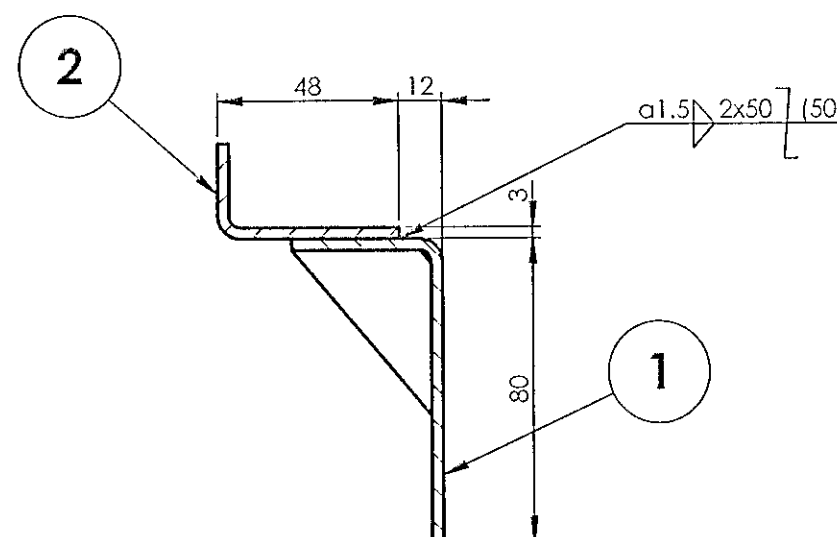
82916016

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

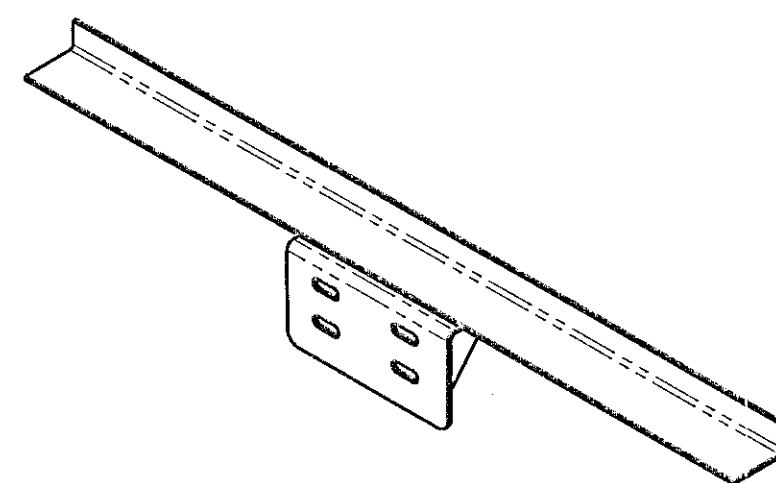
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



DETAIL FOR ITEM-2  
SCALE 1 : 2



SECTION A-A  
SCALE 1 : 2



ISOMETRIC VIEW

NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

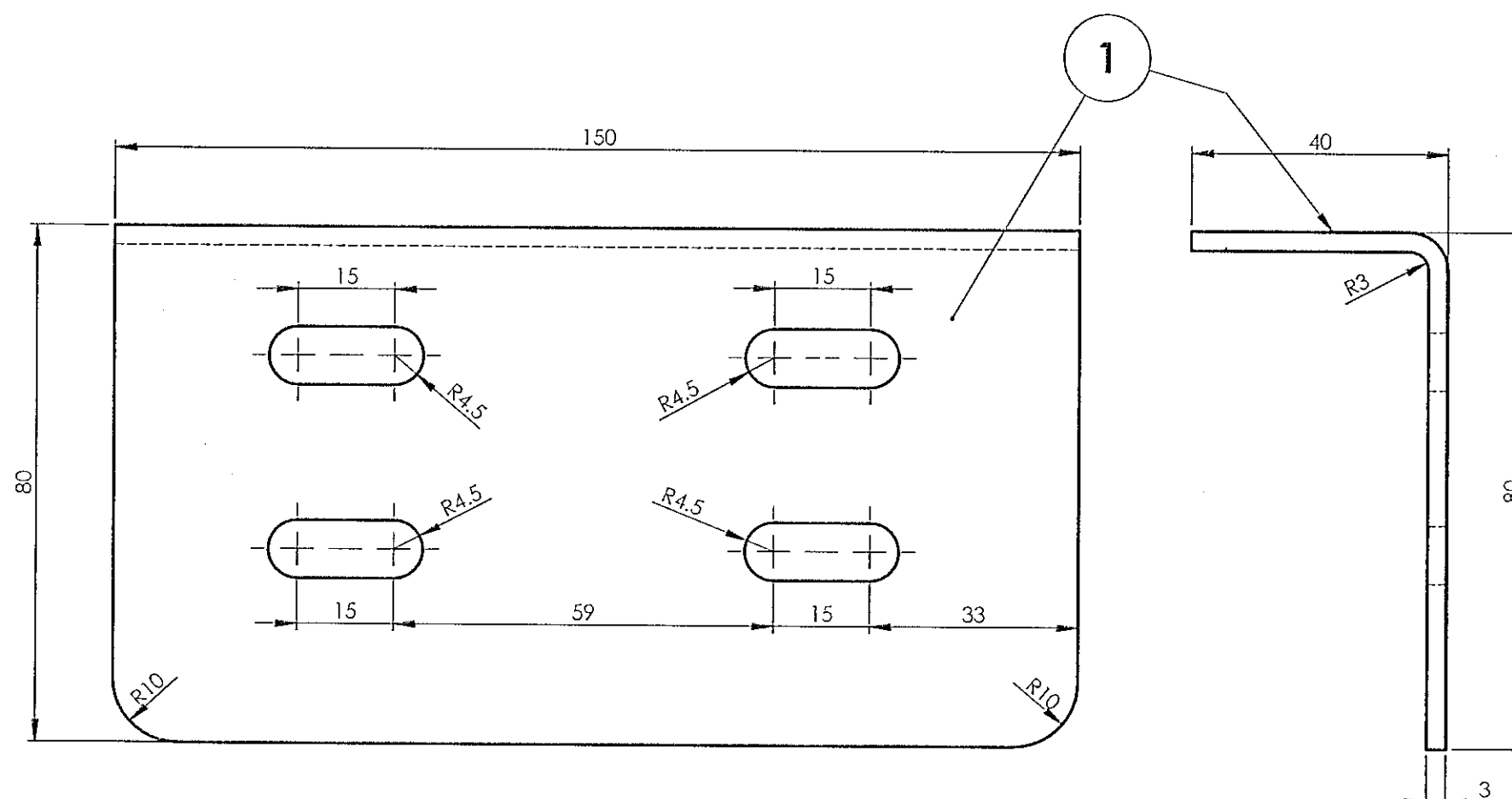
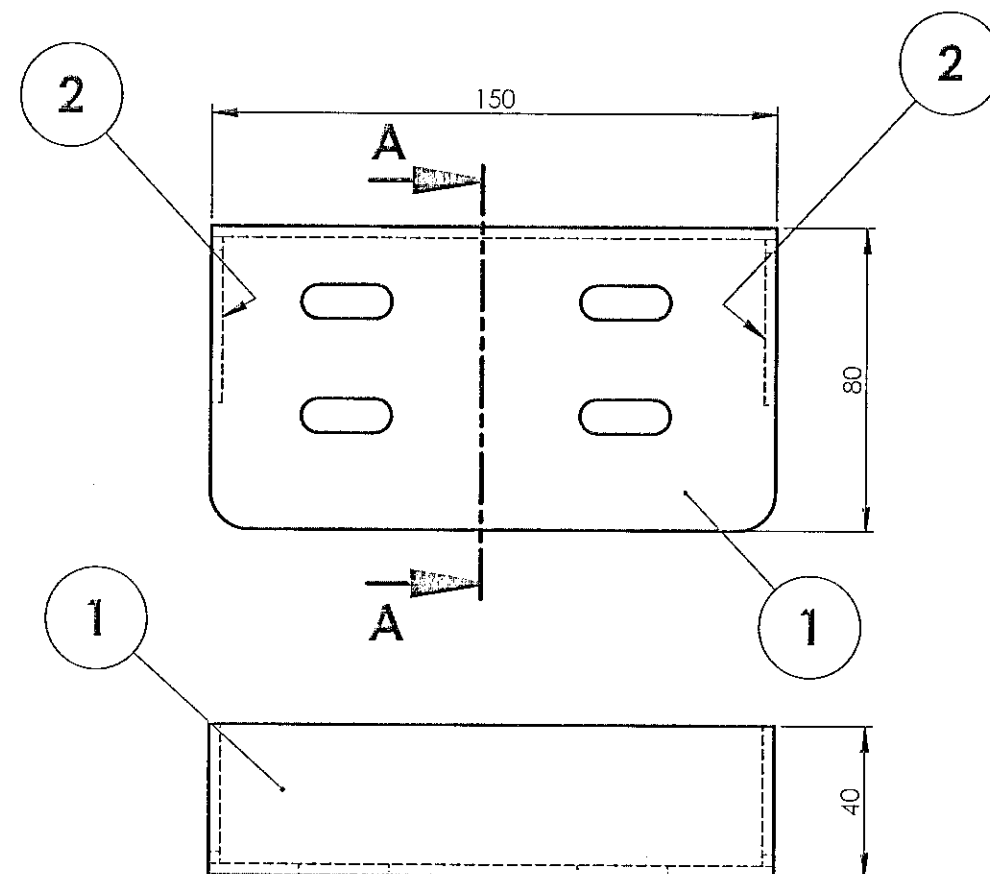
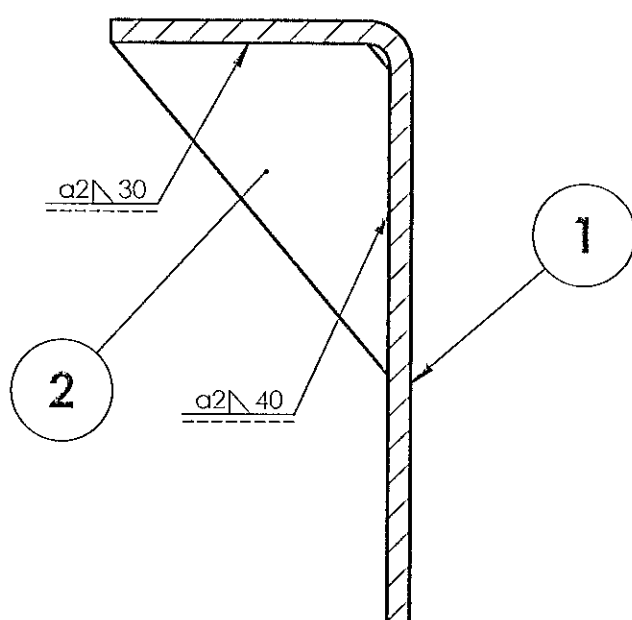
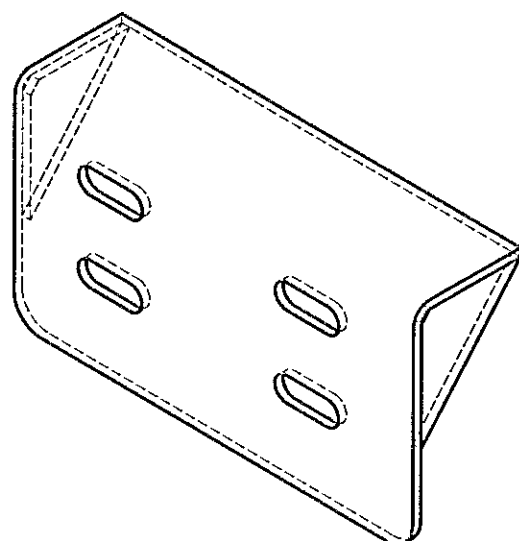
1	ANGLE	3 x 67 x 662	2		RDSO SPEC C-K201 X2 Cr Ni 12	1.08	
1	BRACKET		1	82916017		0.43	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.: 0.13		WT/ASSY IN Kgs:	
BRACKET COMPLETE FOR FIXING AC DUCT (NPP END)					SCALE 1:5	SSE/D	CHD
					ALT	ALTD	DRN
							Amal George
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					82916016		
					A2		

82916017

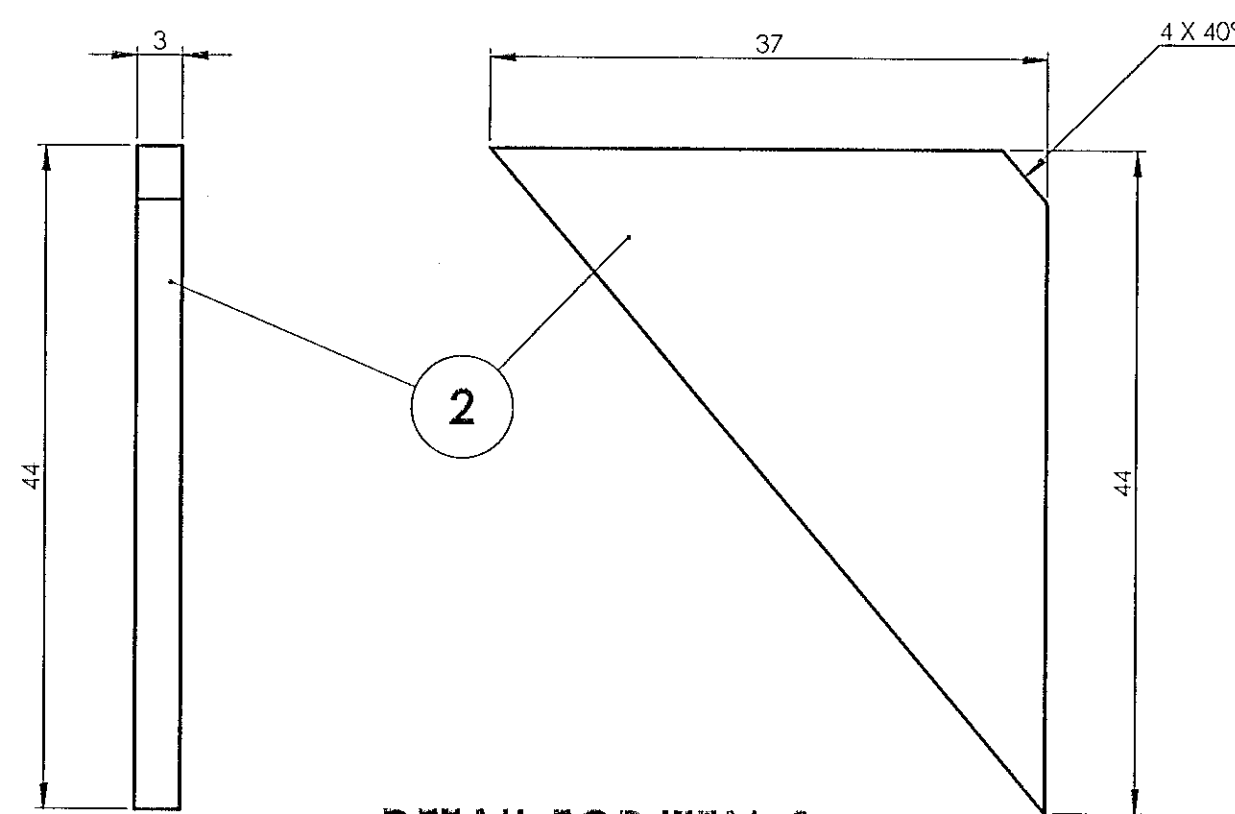
▽ ROUGH MACHINED	⊖1 ROUGH CLEANED
▽▽ FINISH MACHINED	⊖2 BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	⊖3 CHAMFERED

REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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DETAIL FOR ITEM-1  
SCALE 1 : 1SECTION A-A  
SCALE 1 : 1

ISOMETRIC VIEW

DETAIL FOR ITEM-2  
SCALE 1 : 1

## NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.

2	RIB	3 x 37 x 44	2		RDSO SPEC C-K201 X2 Cr Ni 12	0.02	
1	ANGLE	3 x 114 x 150	1		RDSO SPEC C-K201 X2 Cr Ni 12	0.39	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATERIAL	Weight/Unit in Kgs	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.: 0.04		WT/ASSY IN Kgs:	
BRACKET				SCALE 1:2	SSE/D	CHD	Armal George
				ALT	ALTD	DRN	
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		LWACCN/PP2	
INTEGRAL COACH FACTORY, CHENNAI - 600038				82916017		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.-

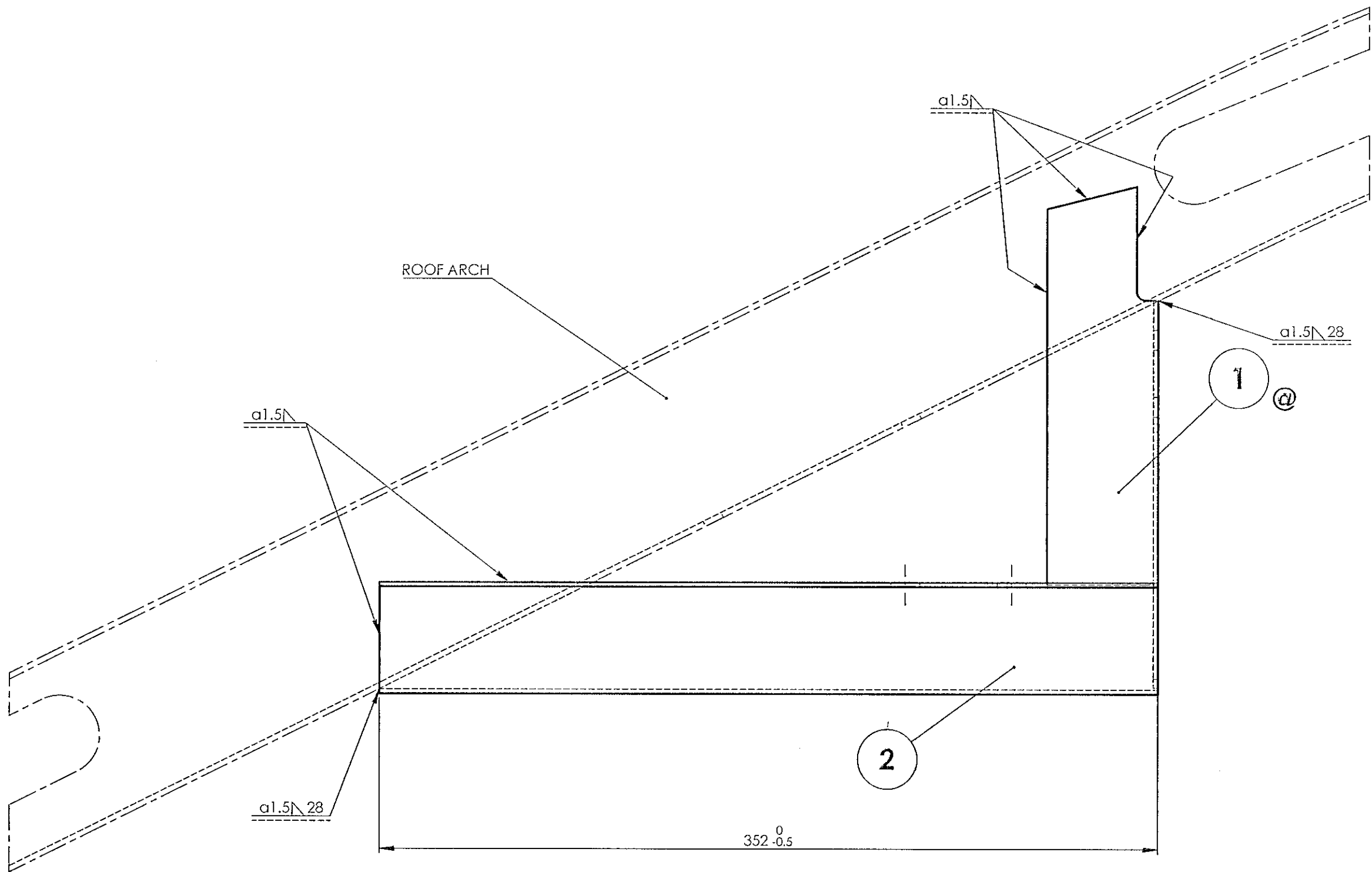
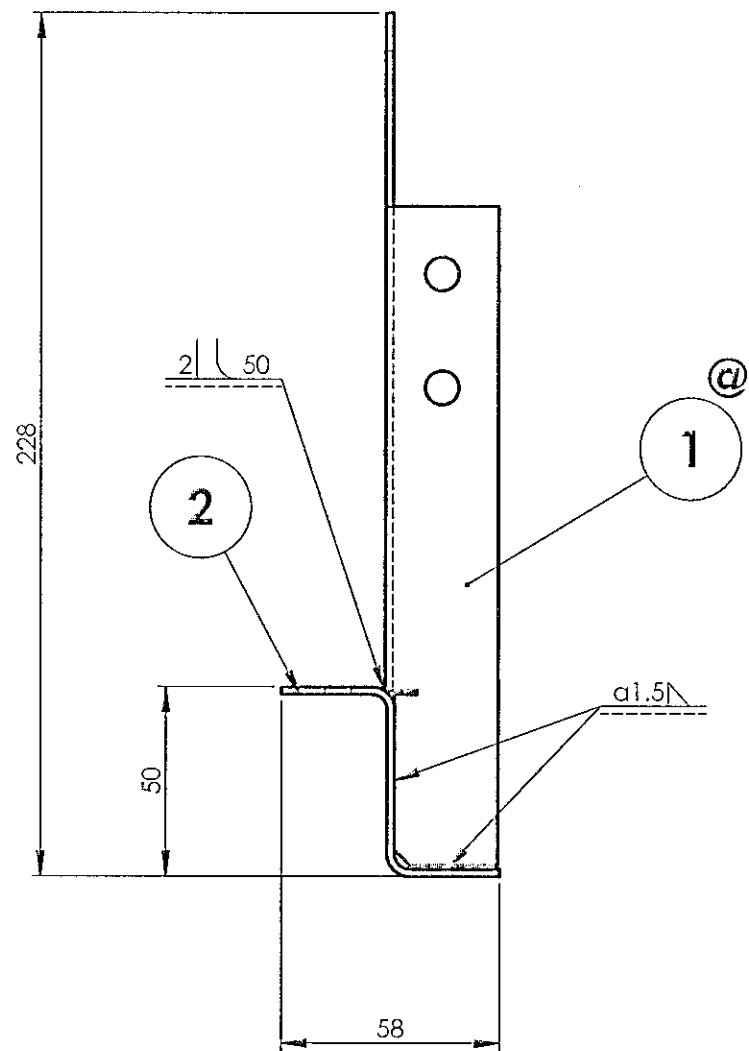
-	10 -11-2025	H. Heise
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME



82916018

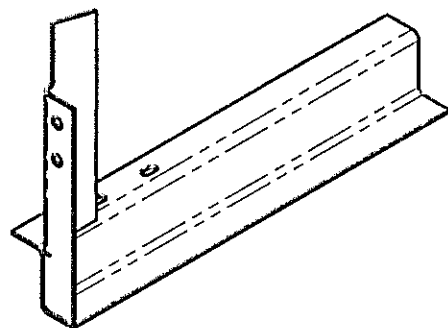
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



NOTE:

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE CP C2 UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
- ⑨ 9. ITEM-1 SHALL BE ENSURED FOR VERTICALITY.



ISOMETRIC VIEW

1	Z MEMBER		2	AAF16293		0.57	
1	SUPPORTING ANGLE R.H.		1	AAB16323		0.203	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.: 0.1		WT/ASSY IN Kgs:	
PART CROSS BRACE COMPLETE(RH)					SCALE 1:2	SSE/D	CHD
					ALT	ALTD	DRN
							Arnal George
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					82916018		
					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.-

DATE OF LATEST ALT.	10 -11-2025	AME/SME
DATE OF FIRST ISSUE		

82916019

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

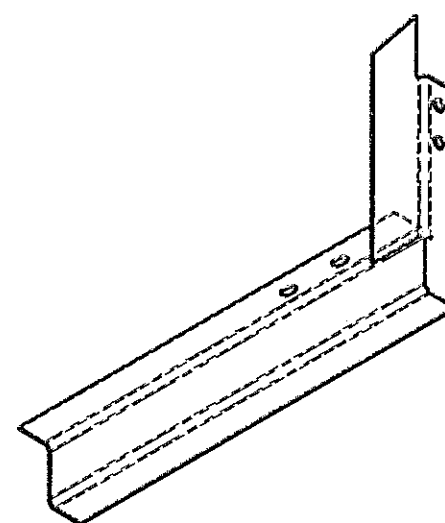
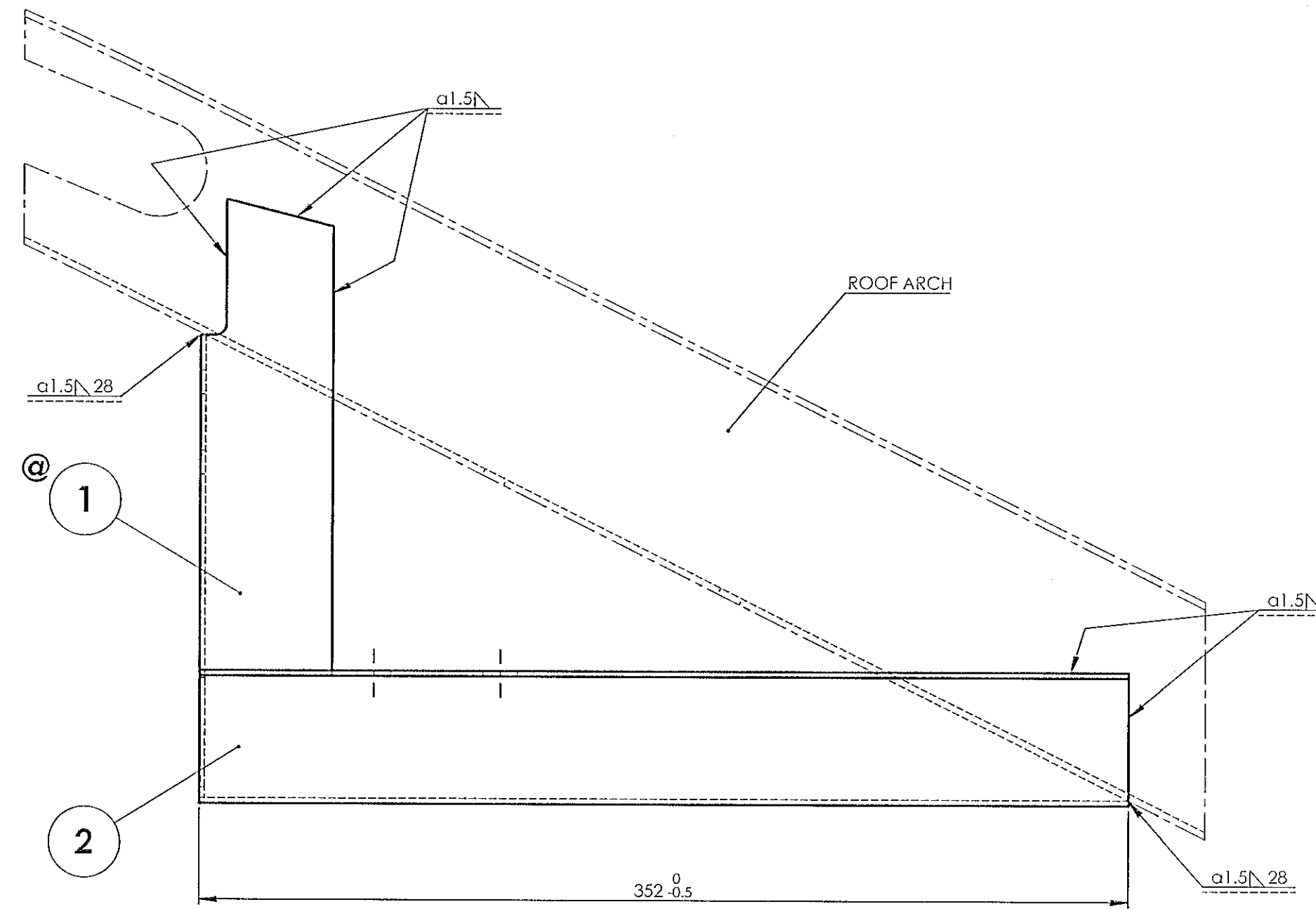
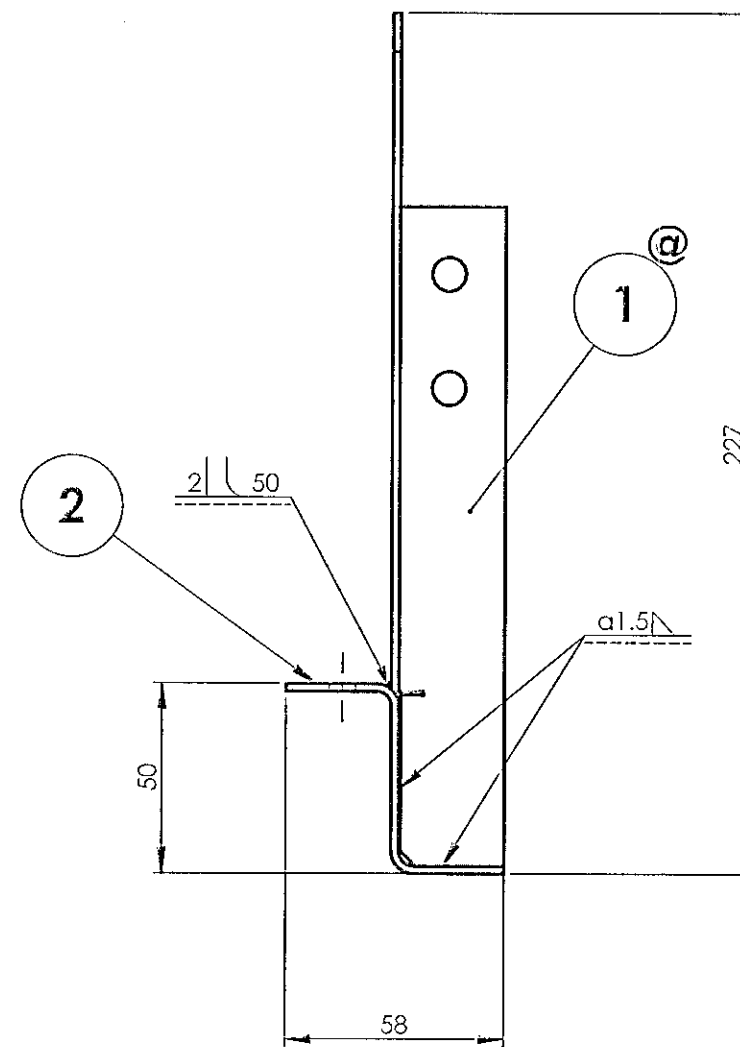
① ROUGH CLEANED  
② BURRS REMOVED  
③ CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &  
DATE

ISOMETRIC VIEW

**NOTE:**

1. STAINLESS STEEL ELECTRODE OF SAME COMPOSITION AS PER TABLE-3 OF RDSO/SPEC C-K201 SHALL BE USED FOR WELDING.
2. ALL WELDINGS SHALL BE TIG WELDING UNLESS OTHERWISE SPECIFIED.
3. ALL WELD SPATTERS SHALL BE GROUND.
4. ALL WELDED JOINTS SHALL BE PICKLED AND PASSIVATED BEFORE SURFACE TREATMENT.
5. ALL SHARP CORNERS SHALL BE ROUNDED OFF.
6. ALL WELD PERFORMANCE CLASS SHALL BE **CP C2** UNLESS OTHERWISE SPECIFIED.
7. FOR WELD TESTING PREFERENCES REFER DRG. No. ICF/STD-9-0-998.
8. FOR WELD PROCEDURE SPECIFICATION REFER DRG. No. ICF/STD-9-0-999.
- ⑨ 9. ITEM-1 SHALL BE ENSURED FOR VERTICALITY.

1	Z MEMBER		2	AAF16292		0.57	
1	SUPPORTING ANGLE L.H.		1	AAB16324		0.203	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF.DRGS.	MATL	WT/UNIT IN KGS	REMARKS

GROUP: 1-6 Roof Construction

SURFACE AREA IN Sq.m.: 0.1

WT/ASSY IN Kgs:

**PART CROSSBRACE COMPLETE (LH)**

SCALE 1:2

SSE/D

CHD

ALT

ALTD

DRN

Amal George

LWACCN/PP2

INDIAN RAILWAY STANDARDS

INTEGRAL COACH FACTORY, CHENNAI - 600038

SHEET  
1 OF 1

82916019

A2

REF.DRG.NO.-

DATE OF LATEST ALT.

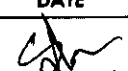
to -11-2025

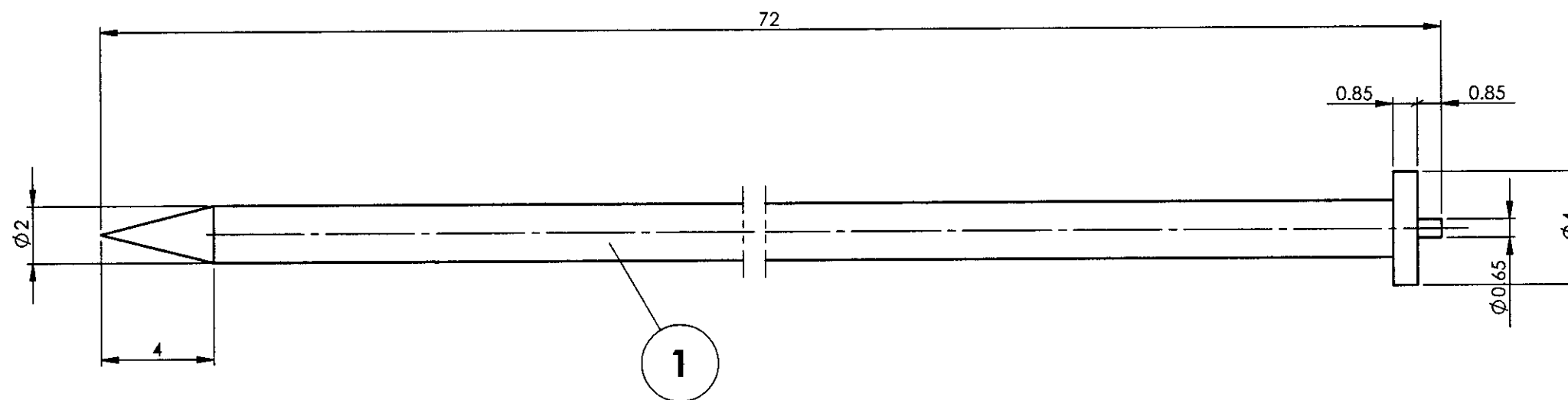
DATE OF FIRST ISSUE

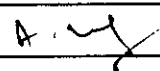
AME/SME

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

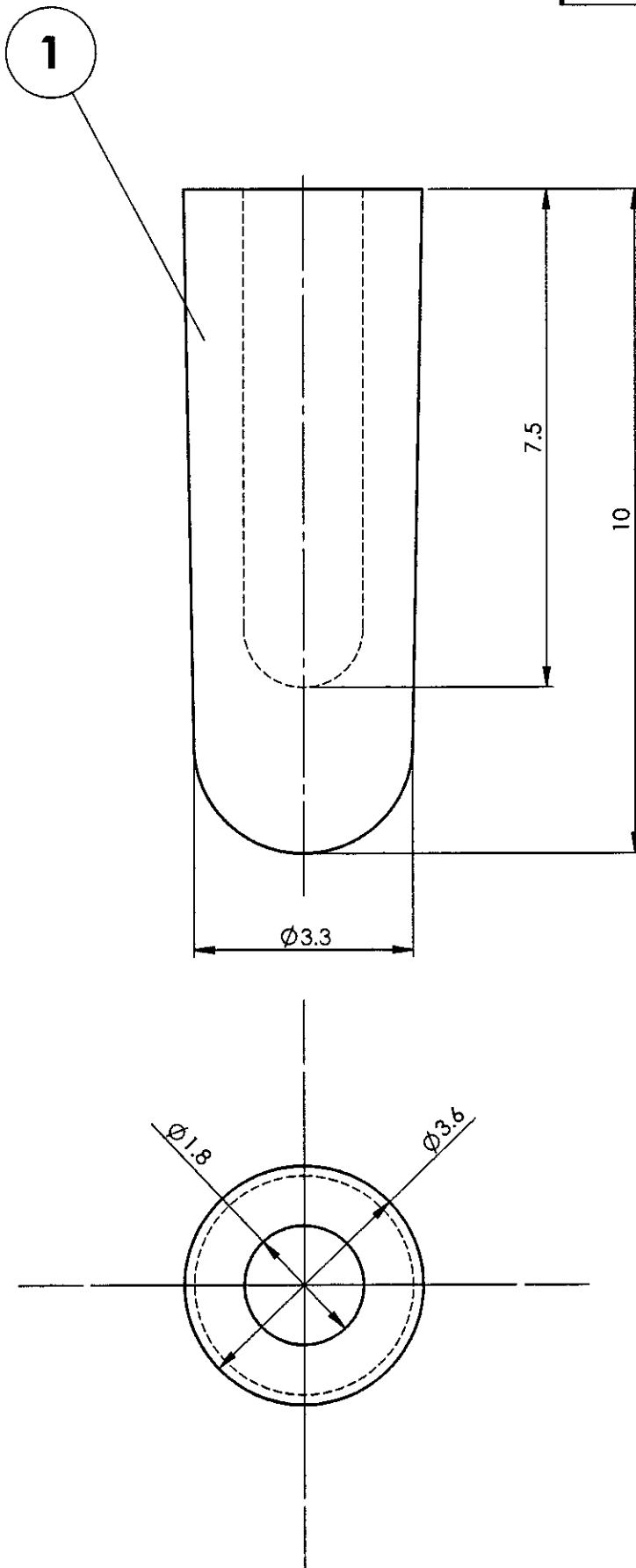
REF.DRG.NO.mi001576, ITEM-1

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	①B 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

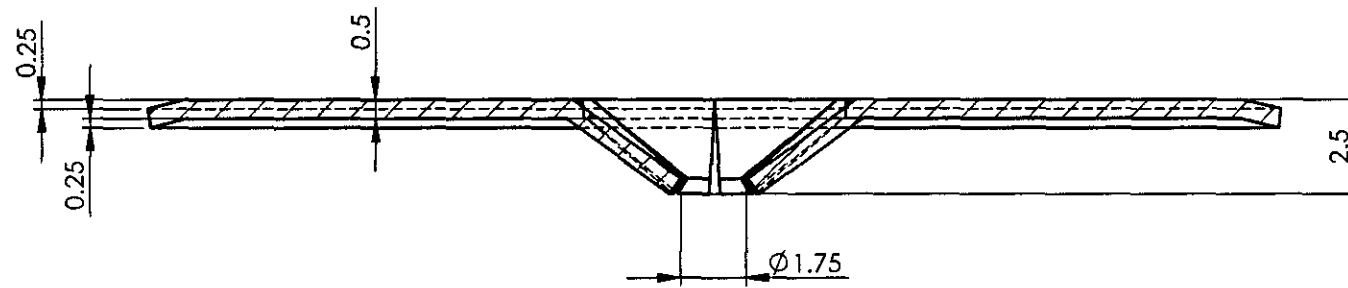
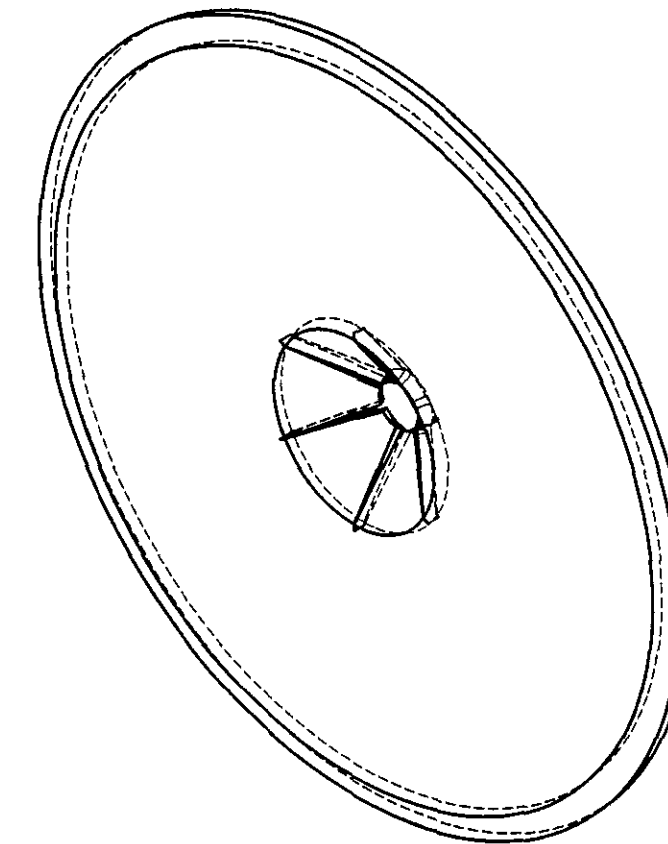
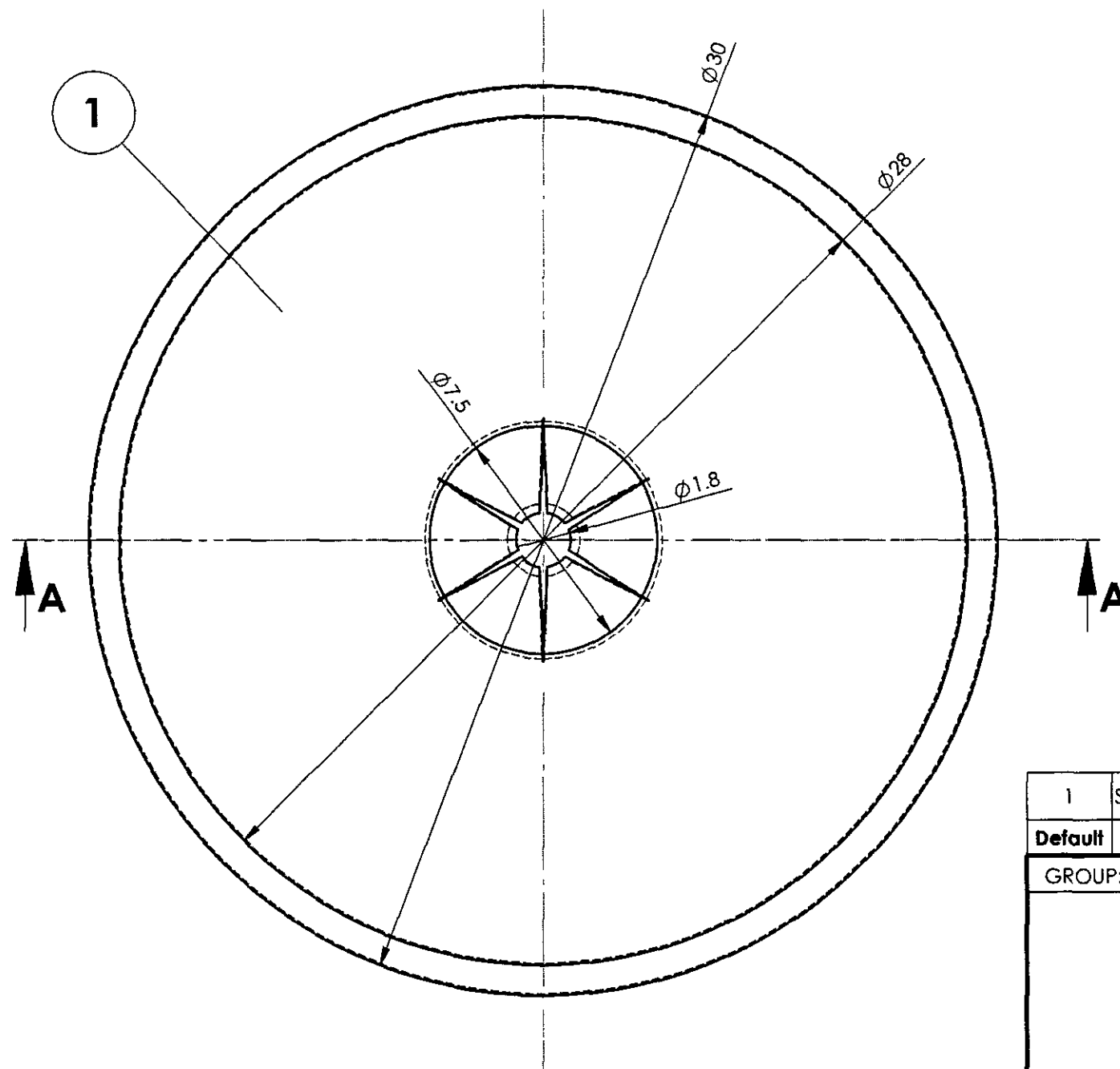
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.  
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE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

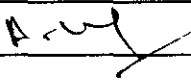
SECTION A-A  
SCALE 5 : 1

ISOMETRIC VIEW

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

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	A.Palanichamy
						DRN	3D:A.Palanichamy 2D:P.Murugan
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAA16495	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

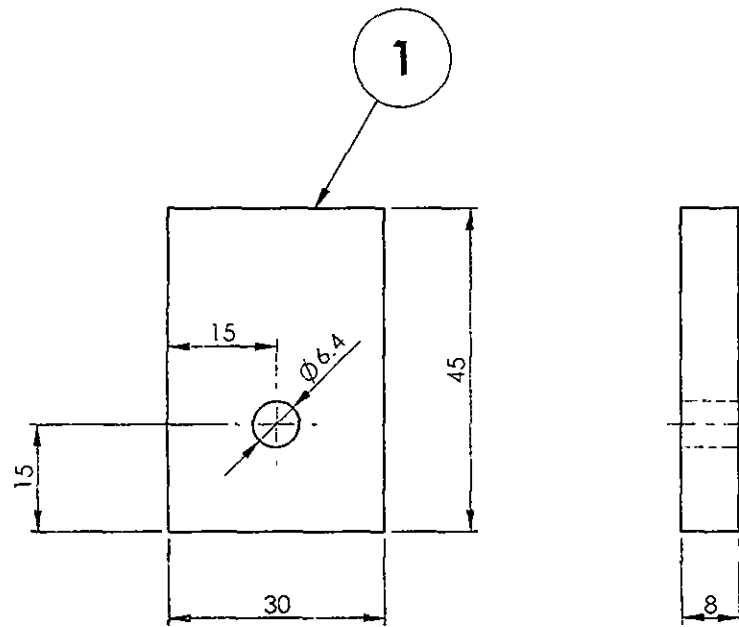


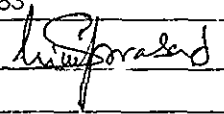
AAA16900

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

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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—	GROUNDING FLAP	8 x 30 x 45	1		RDSO/SPEC C- K201 X5 Cr Ni 18 10	0.084	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY		SURFACE AREA IN Sq.m.:0.004			WT/ASSY IN Kgs:0.083		
GROUNDING FLAP					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
					DRN	K.Sriram	
					INDIAN RAILWAY STANDARDS		
INTEGRAL COACH FACTORY, CHENNAI - 600038			AAA16900				
				A3			

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS ADD TOLERANCES AS 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.

REF.DRG.NO.4.10113.0.20.095.138

21-03-2013	AME/SME
DATE OF LATEST ALT.	DATE OF FIRST ISSUE

AAA16906

▽ ROUGH MACHINED

▽▽ FINISH MACHINED

▽▽▽ FINE FINISH VACUUMED

⊙ ROUGH CLEANED

⊙ BURRS REMOVED

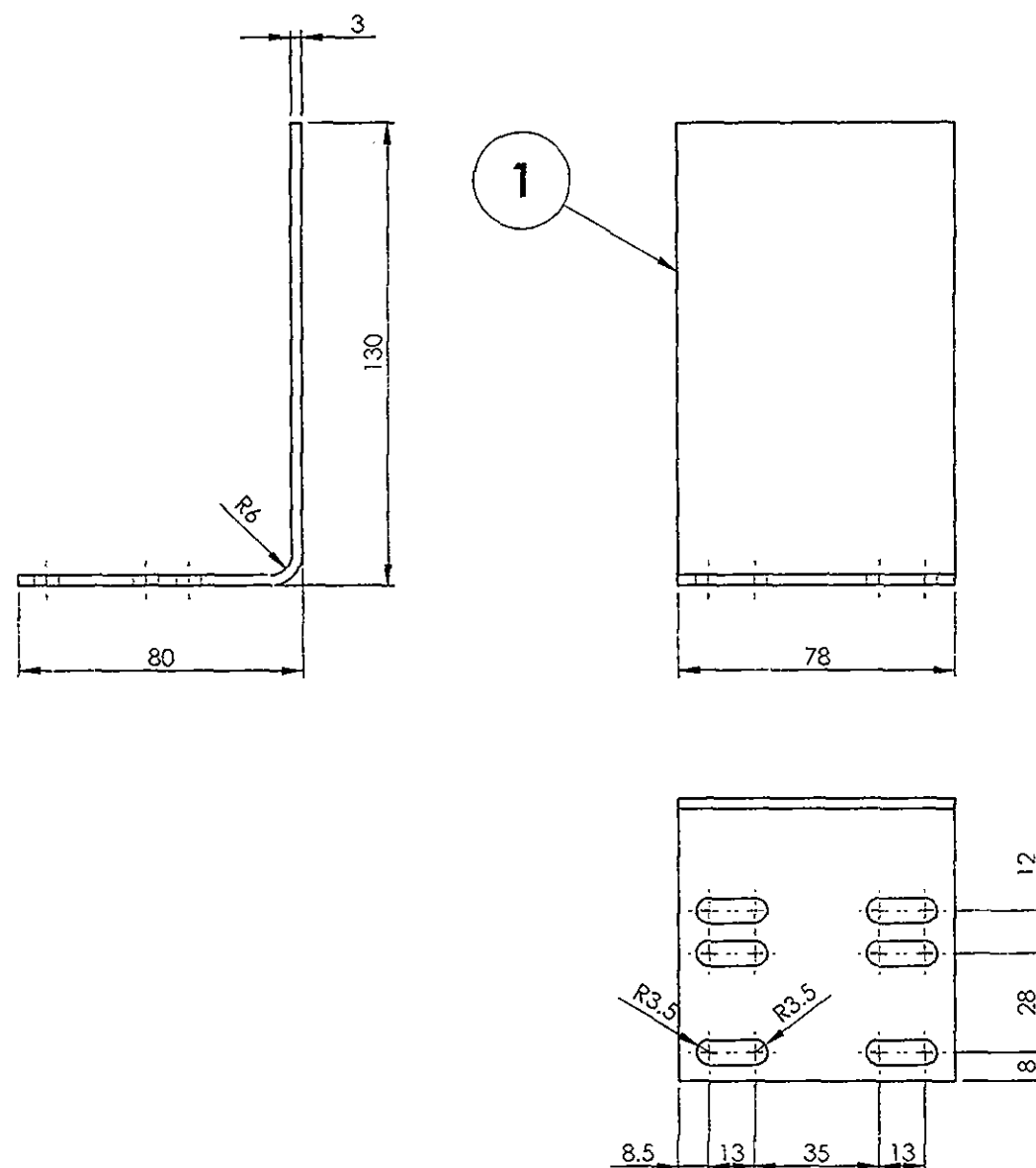
⊙ CHAMFERED

REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &  
DATE

1	ANGLE	3 x 78 x 204	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.363	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY				SURFACE AREA IN Sq.m.:0.033		WT/ASSY IN Kgs:0.363	
ANGLE					SCALE	SSE/D	K.Srirom
					1:2	CHD	
					ALT.	ALTD	
						DRN	
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAA16906		A3

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

REF.DRG.NO.2.10113.0.20.095.115

	21-03-2013	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

AAA16907

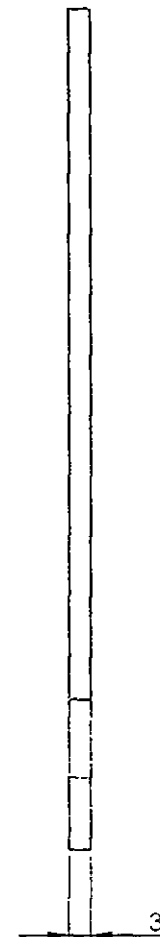
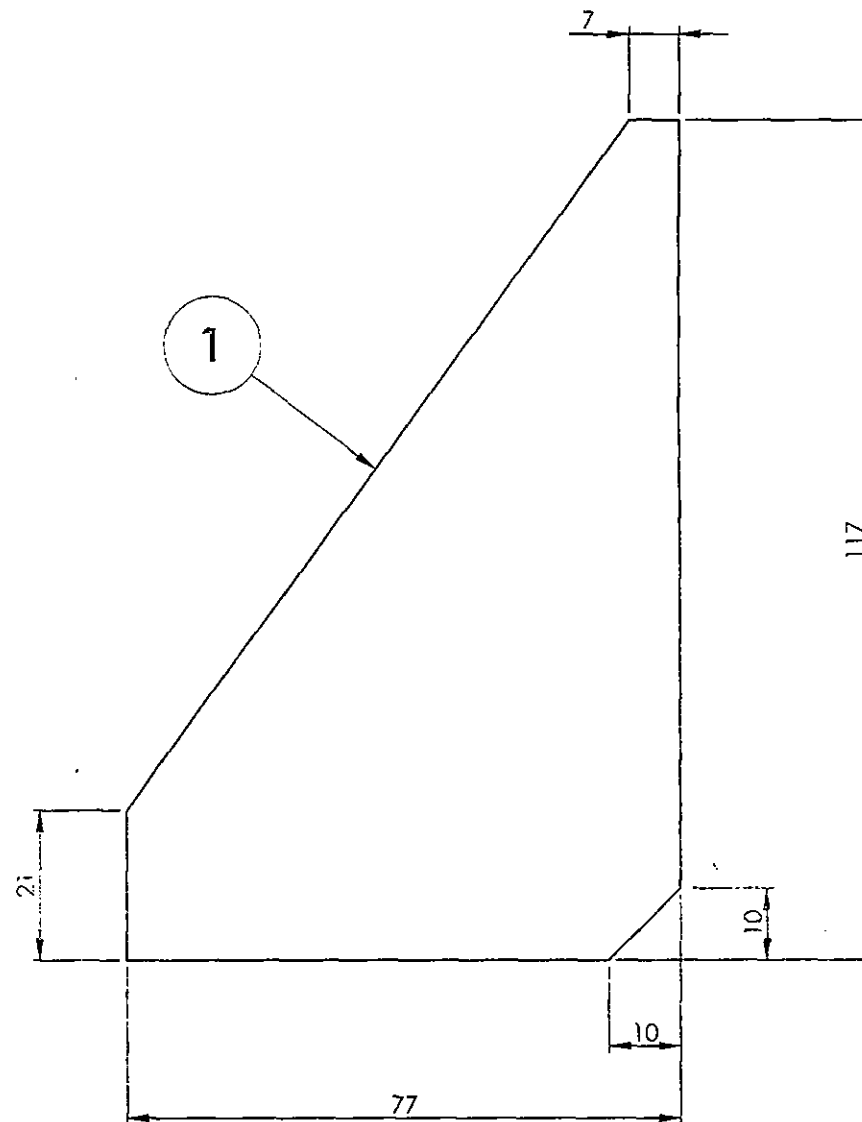
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	② BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	③ CHAMFERED

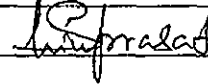
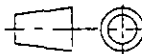
REVISIONS

ALT.

ZONE

DESCRIPTION

APPROVED &  
DATE

1	WEB	3 x 77 x 117	1		RDSO/SPEC C- K201 X2 Cr Ni 12	0.134	
QTY.	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY		SURFACE AREA IN Sq.m.:0.012			WT/ASSY IN Kgs:0.134		
WEB					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	K.Sriram
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1	AAA16907	A3

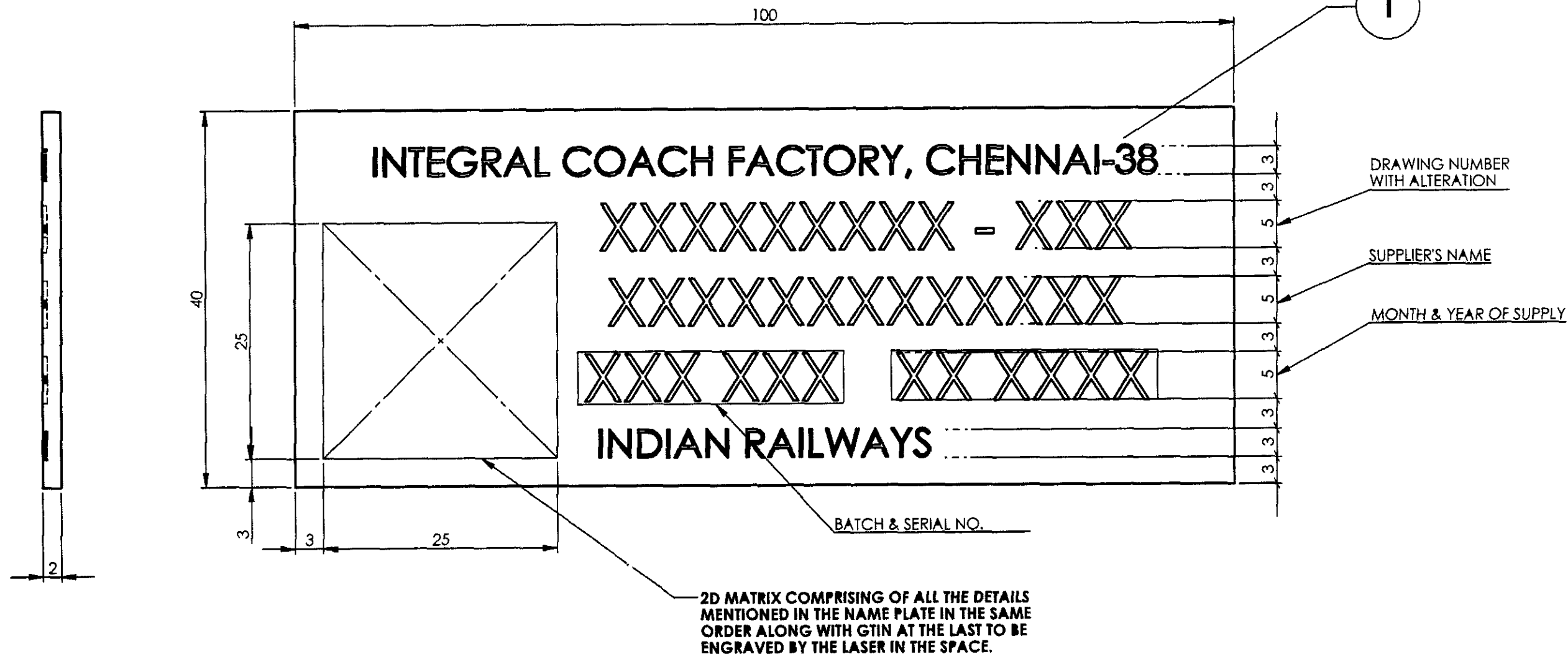
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/SID-9-0 001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813 1986.

REF.DRG.NO.4.10113.0.20.095.116

AAA51072

▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①① BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①①① CHAMFERED

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		NAME PLATE REVISED.	-sd-
b		DESIGN REVISED.	-sd-
c		BATCH & SERIAL NO. ADDED	-sd-
d		NOTE-2 ADDED.	<i>sd</i>

**NOTE:**

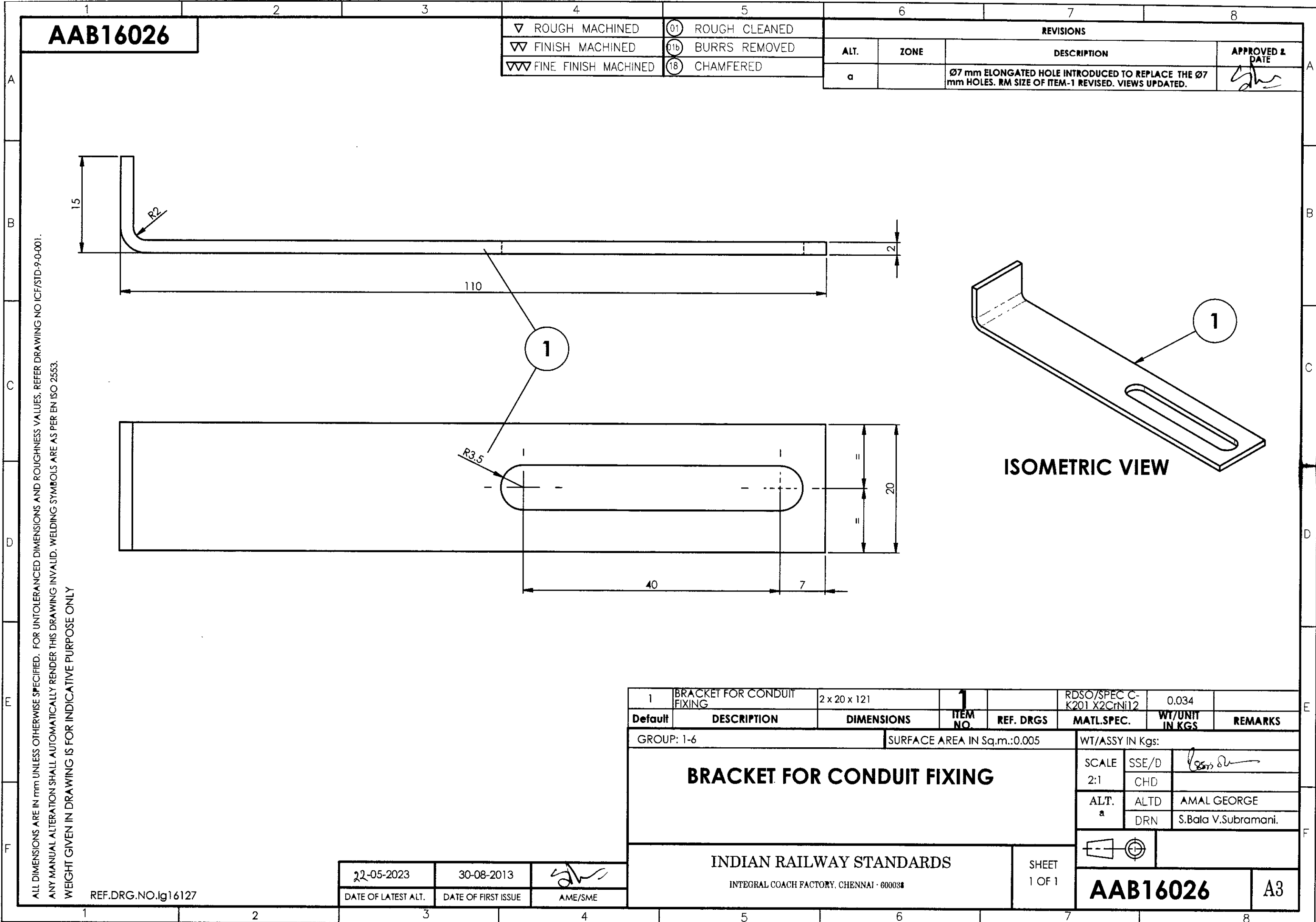
1. LETTERS TO BE PUNCHED OR ENGRAVED.

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

1	NAME PLATE FOR SUPPLIER IDENTIFICATION	2x40x100	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.063	\$		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS		
GROUP: 5-1 Body Side Doors				SURFACE AREA IN Sq.m.:0.009		WT/ASSY IN Kgs:			
NAME PLATE FOR SUPPLIER IDENTIFICATION						SCALE 2:1	SSE/D <i>sd</i>		
						ALT. d	CHD		
							ALTD KUNTI THAKUR		
							DRN G. NAGESWARAN		
INDIAN RAILWAY STANDARDS						SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038						AAA51072			
						A3			

06-07-2024	02.06.2010	<i>sd</i>
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

REF.DRG.NO.




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

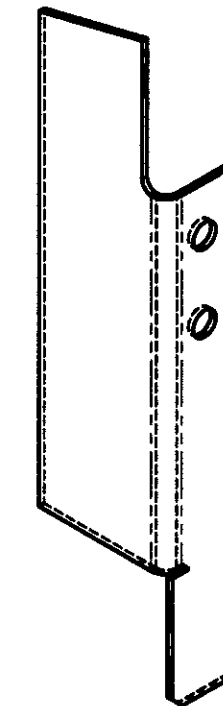
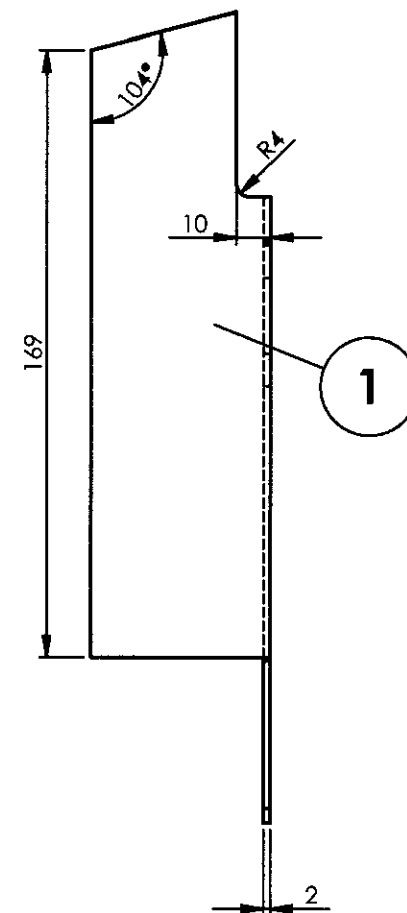
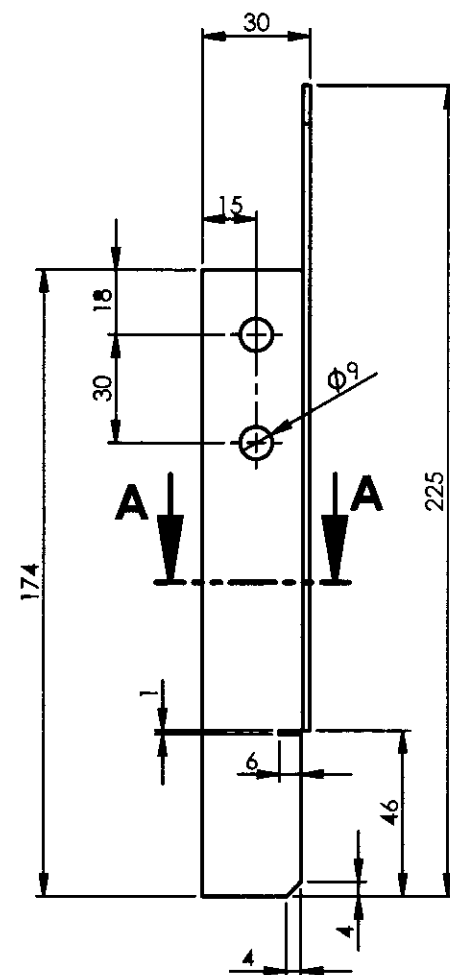


AAB16323

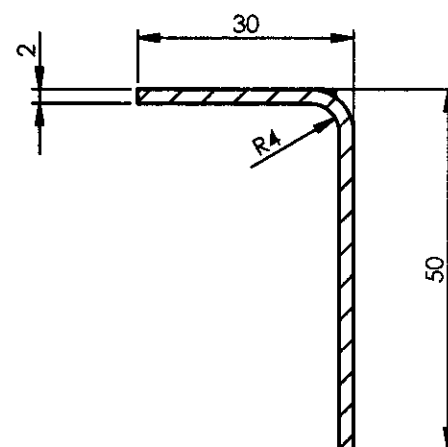
▽ ROUGH MACHINED	① ROUGH CLEANED
▽▽ FINISH MACHINED	①b BURRS REMOVED
▽▽▽ FINE FINISH MACHINED	①c CHAMFERED

## REVISIONS

ALT.	ZONE	DESCRIPTION	APPROVED & DATE
•		LOCATION OF Ø9 HOLE ALTD FROM 11 TO 18	

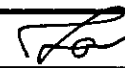


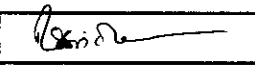
ISOMETRIC VIEW

SECTION A-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: 813-1986.  
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY

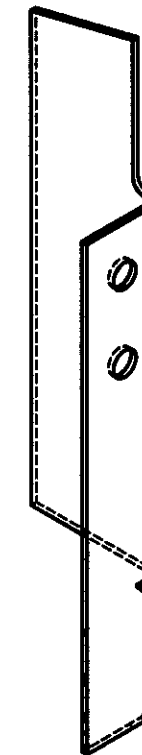
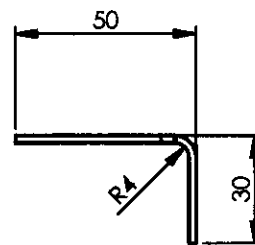
REF.DRG.NO.LE16105

27-04-2022	19-09-2020	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

1	SUPPORTING ANGLE R.H.	2x75x225	1		RDSO/SPEC C-K201 X2CrNi12	0.203	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF				SURFACE AREA IN Sq.m.:28504.33779 WT/ASSY IN Kgs:			
SUPPORTING ANGLE R.H.					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	Bala V.Subramani.
INDIAN RAILWAY STANDARDS					•	DRN	S.Bala V.subramani.
					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAB16323		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
a		LOCATION OF Ø9 HOLE ALTD. FROM 11 TO 18	




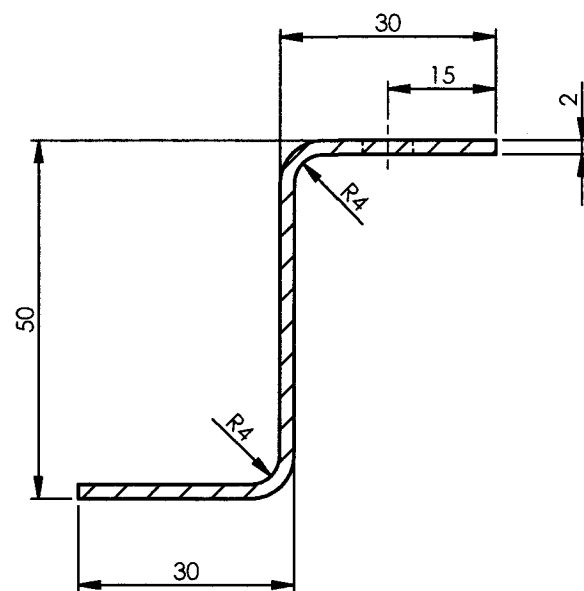
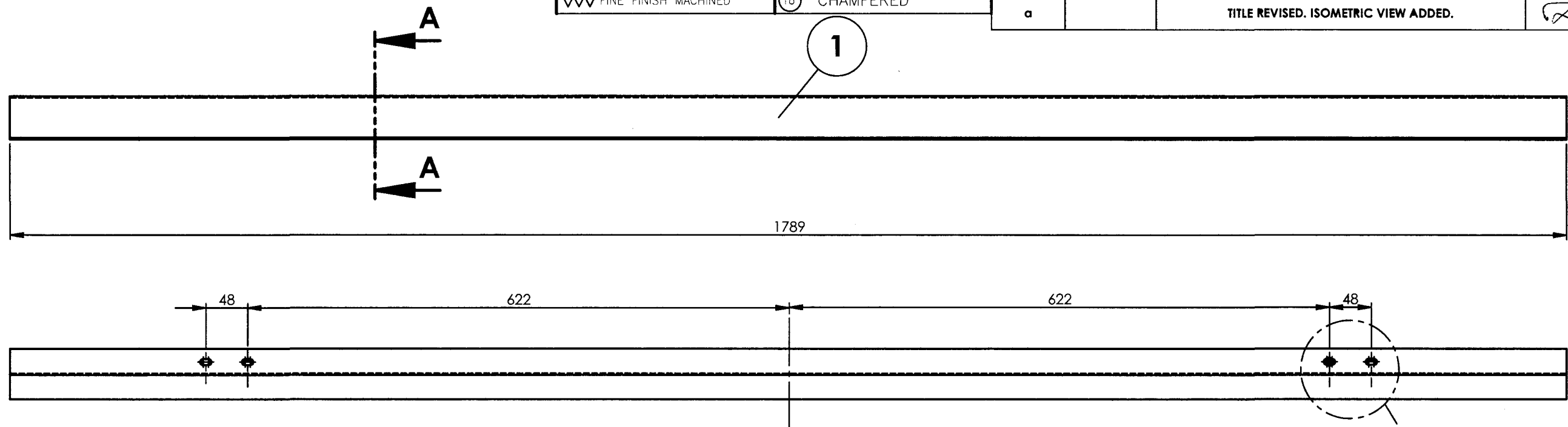
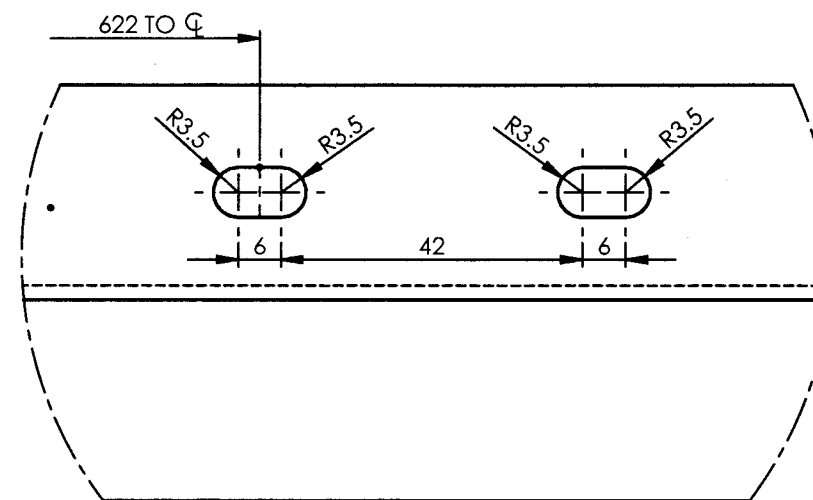
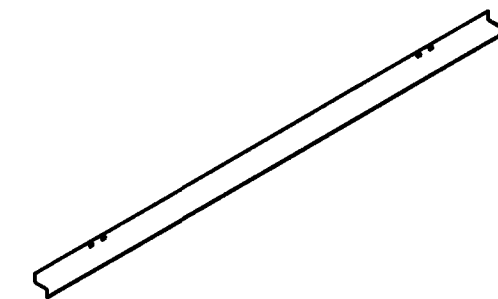
### ISOMETRIC VIEW

REF.DRG.NO.LE16105 alt-b

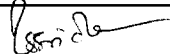
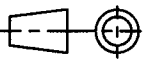
AAB16325

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
a		TITLE REVISED. ISOMETRIC VIEW ADDED.	

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

ISOMETRIC VIEW

1	Z- MEMBER	2x101x1789	1		RDSO/SPEC C-K201 X2CrNi12	2.91	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
Z-MEMBER FOR CROSS BRACE					SCALE	SSE/D	
					1:10	CHD	
					ALT.	ALTD	AMAL GEORGE
					a	DRN	S.Bala V.subramani.
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					AAB16325		A3

REF.DRG.NO.LE16106 alt-a

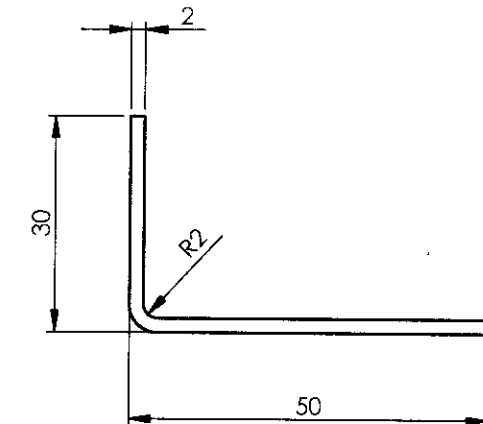
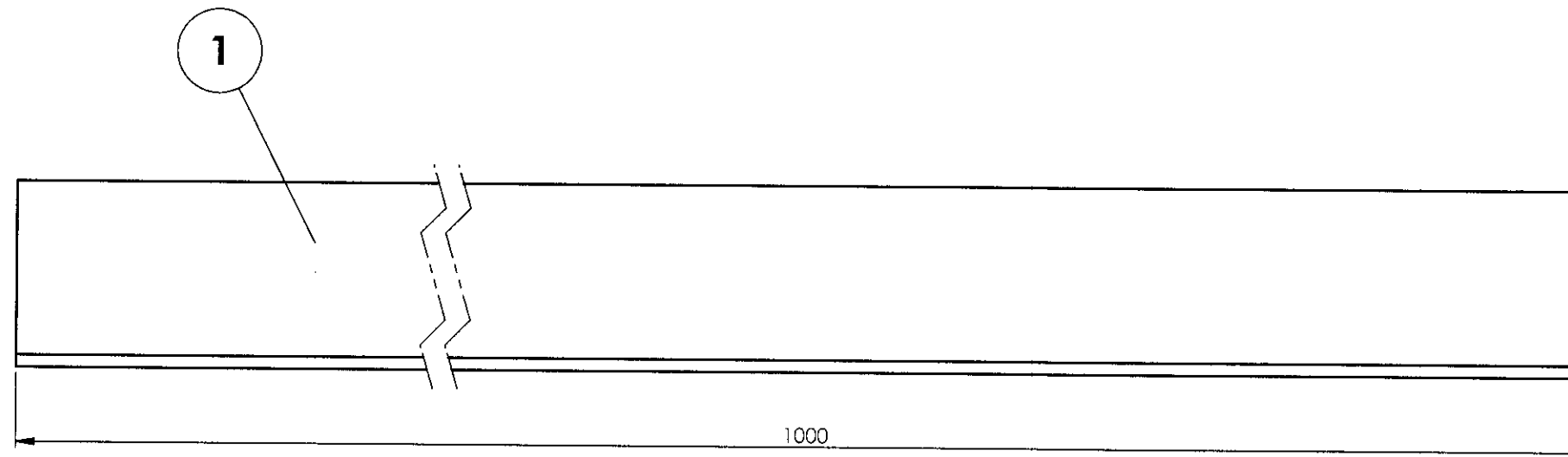
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.  
WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE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

AAB16326

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

## REVISIONS


ALT.	ZONE	DESCRIPTION	APPROVED & DATE
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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.LE16104 alt-a

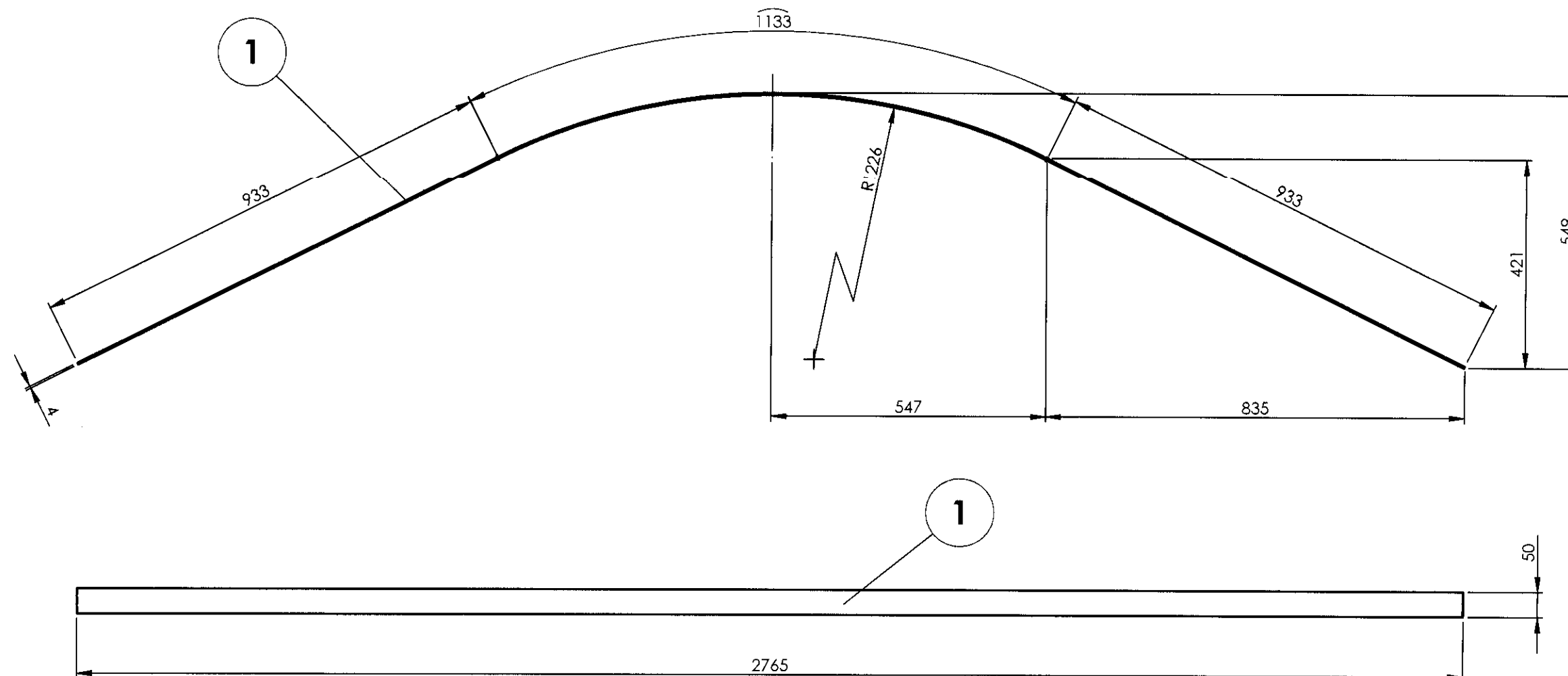
	19-09-2020	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	ANGLE	2x76x1000	1		RDSO/SPEC C-K201 X2CrNi12	1.23	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ANGLE					SCALE	SSE/D	S. Balaji
					1:5	CHD	
					ALT.	ALTD	
						DRN	S.Bala V.subramani.
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038					AAB16326		A3

AAB16333

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



1	FLANGE FOR FINAL ROOF ARCH.	4x50x3000	1	REF. DRGS	RDSO/SPEC C-K201 X5 Cr Ni 18 10	4.80	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:		WT/ASSY IN Kgs:	
FLANGE FOR FINAL ROOF ARCH.					SCALE	SSE/D	
					1:20	CHD	
					ALT.	ALTD	
						DRN	B.Suresh
INDIAN RAILWAY STANDARDS							
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		
					AAB16333		A3

ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-4-001.  
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

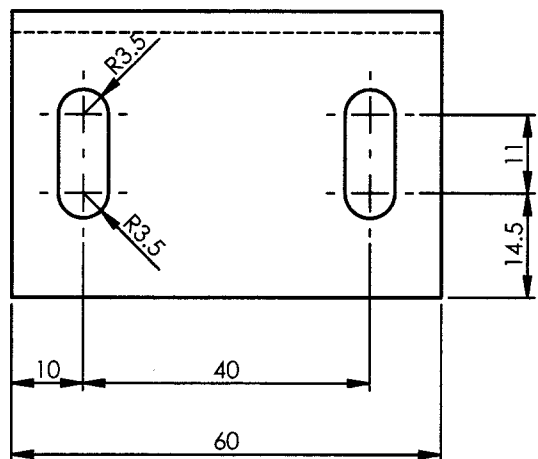
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-	19-09-2020	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1		2		3		4		5		6		7		8			
AAB16338				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS									
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE		
				▽▽▽ FINE FINISH MACHINED		⑱ CHAMFERED											
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div><div>1</div><div>100</div></div> <div><div>30</div><div>R3</div><div>30</div><div>3</div></div>																	
REF.DRG.NO.LE16100/Item-14 alt-f				-		-		[Signature]		INDIAN RAILWAY STANDARDS		SHEET 1 OF 1		AAB16338		A3	
DATE OF LATEST ALT.				DATE OF FIRST ISSUE		AME/SME		INTEGRAL COACH FACTORY, CHENNAI - 600038									
1		2		3		4		5		6		7		8			

[illegible]

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



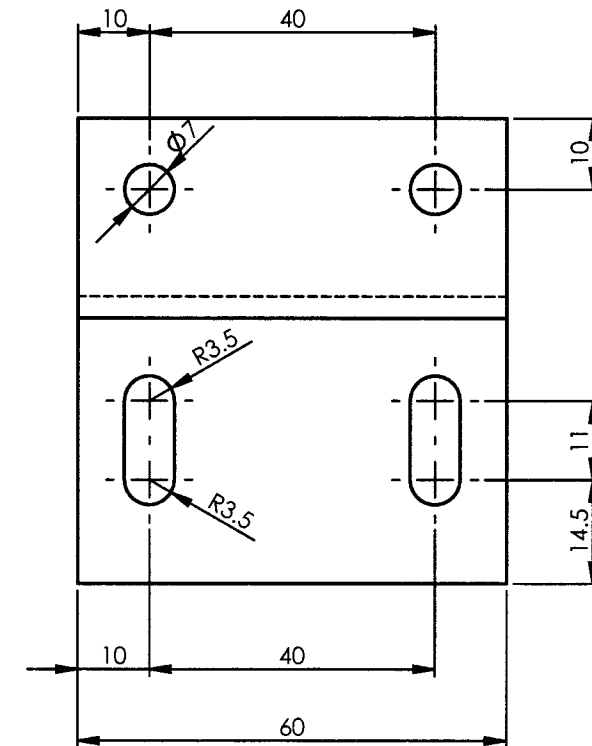
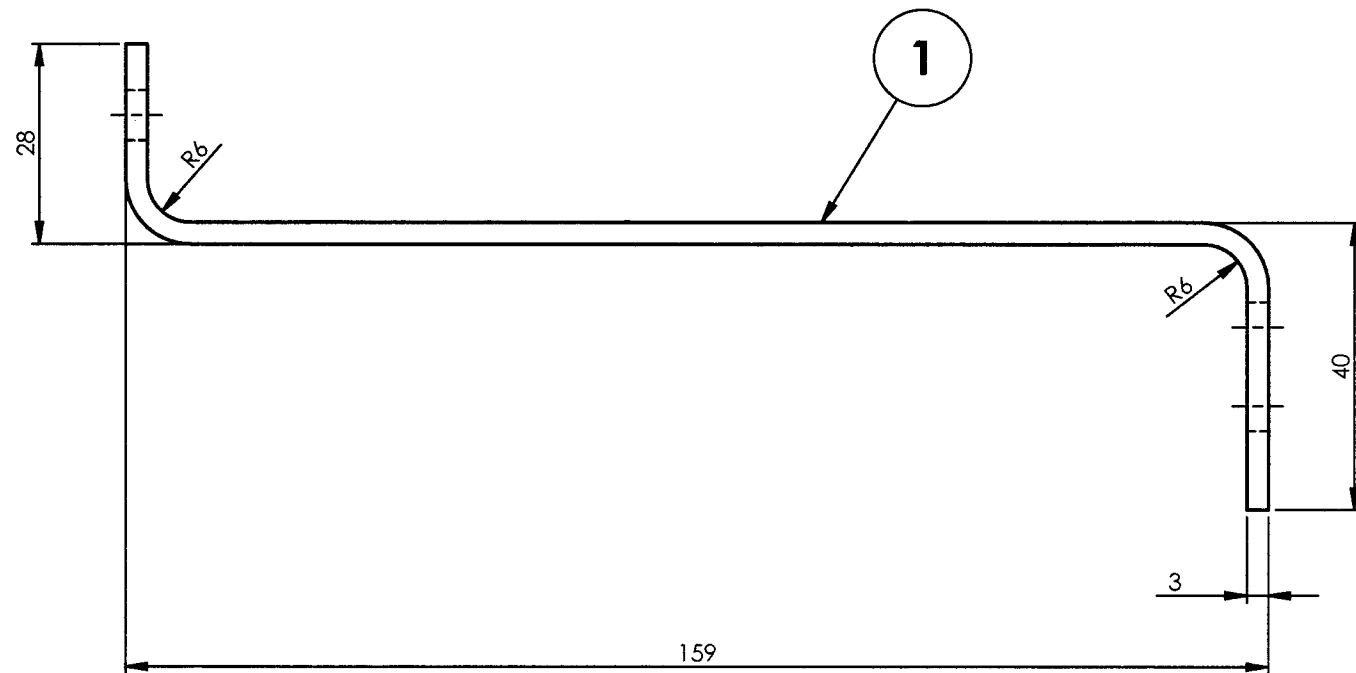
1		2		3		4		5		6		7		8																																																															
AAB16344				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																					
				∇ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE																																																														
				≡ FINE FINISH MACHINED		⑱ CHAMFERED																																																																							
<div><div><div>1</div><div><div>3</div><div>159</div><div>R6</div><div>40</div></div><div><div>R3.5</div><div>10</div><div>40</div><div>60</div><div>11</div><div>14.5</div></div></div></div>																																																																													
<table><tr><td>1</td><td>BRACKET COMPLETE</td><td>3 x 60 x 215</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X2 Cr Ni 12</td><td>0.315</td><td></td></tr><tr><td>Default</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: 1-6 Roof Construction</td><td colspan="2">SURFACE AREA IN Sq.m.:0.029</td><td>WT/ASSY IN Kgs:0.315</td></tr><tr><td colspan="5" rowspan="2">BRACKET COMPLETE</td><td>SCALE</td><td>SSE/D</td><td></td></tr><tr><td>1:1</td><td>CHD</td><td></td></tr><tr><td colspan="5" rowspan="2">INDIAN RAILWAY STANDARDS</td><td>ALT.</td><td>ALTD</td><td></td></tr><tr><td>.</td><td>DRN</td><td>Amal George</td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2">SHEET 1 OF 1</td><td></td></tr><tr><td colspan="5"></td><td colspan="2">AAB16344</td><td>A3</td></tr></table>																1	BRACKET COMPLETE	3 x 60 x 215	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.315		Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-6 Roof Construction					SURFACE AREA IN Sq.m.:0.029		WT/ASSY IN Kgs:0.315	BRACKET COMPLETE					SCALE	SSE/D		1:1	CHD		INDIAN RAILWAY STANDARDS					ALT.	ALTD		.	DRN	Amal George	INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1								AAB16344		A3
1	BRACKET COMPLETE	3 x 60 x 215	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.315																																																																							
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																						
GROUP: 1-6 Roof Construction					SURFACE AREA IN Sq.m.:0.029		WT/ASSY IN Kgs:0.315																																																																						
BRACKET COMPLETE					SCALE	SSE/D																																																																							
					1:1	CHD																																																																							
INDIAN RAILWAY STANDARDS					ALT.	ALTD																																																																							
					.	DRN	Amal George																																																																						
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1																																																																								
					AAB16344		A3																																																																						
<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>DATE OF LATEST ALT.</div><div>DATE OF FIRST ISSUE</div><div>AME/SME</div></div> <div>REF.DRG.NO.2 10113.0.76.095.009<div>14-09-2021</div></div>																																																																													
1		2		3		4		5		6		7		8																																																															



AAB16353

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

REF.DRG.NO.2 1103.0.76.095.010

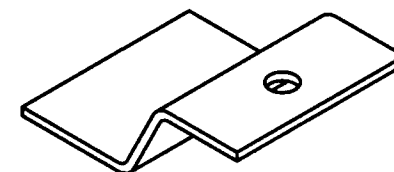
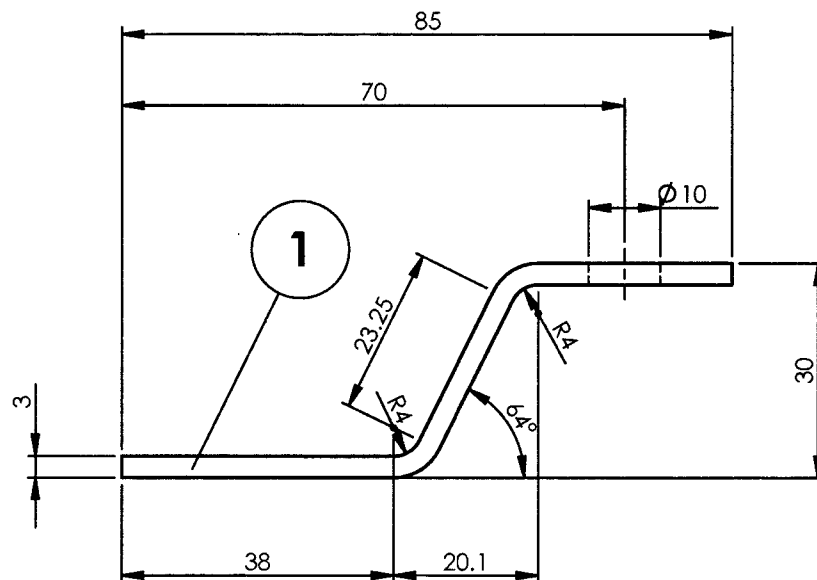
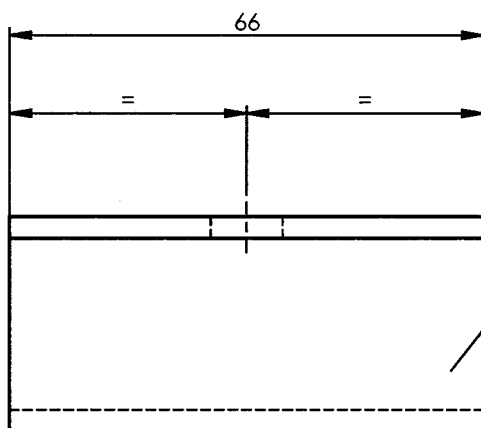
	12-09-2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	BRACKET	3 x 60 x 203	1		RDSO/SPEC C-K201 X2 Cr Ni 12	0.302	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY				SURFACE AREA IN Sq.m.:0.027		WT/ASSY IN Kgs:0.302	
BRACKET					SCALE 1:1	SSE/D CHD	
					ALT.	ALTD	
					DRN	3D:S.BALA V SUBRAMANI 2D:AMAL	
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1	AAB16353	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A3	

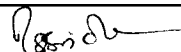

AAB16354

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



ISOMETRIC VIEW

1	ANGLE	3x66x98.5	1		RDSO/SPEC C-K201 X2CrNi12	0.16	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF		SURFACE AREA IN Sq.m.:			WT/ASSY IN Kgs:		
ANGLE					SCALE	SSE/D	
					1:1	CHD	
					ALT.	ALTD	
						DRN	S.Bala V.Subramani.
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038							
					SHEET 1 OF 1		AAB16354

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REF.DRG.NO.3 10113.0.20.095.104

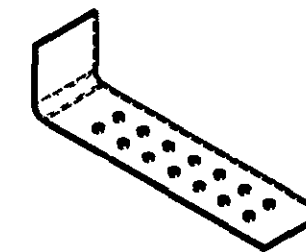
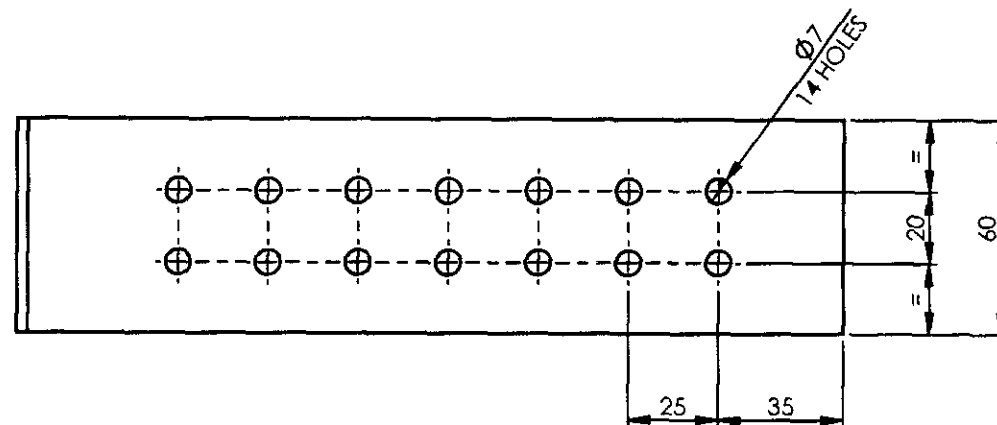
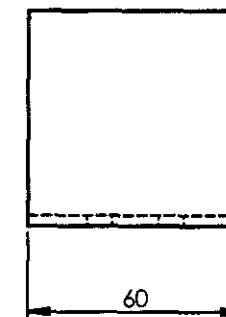
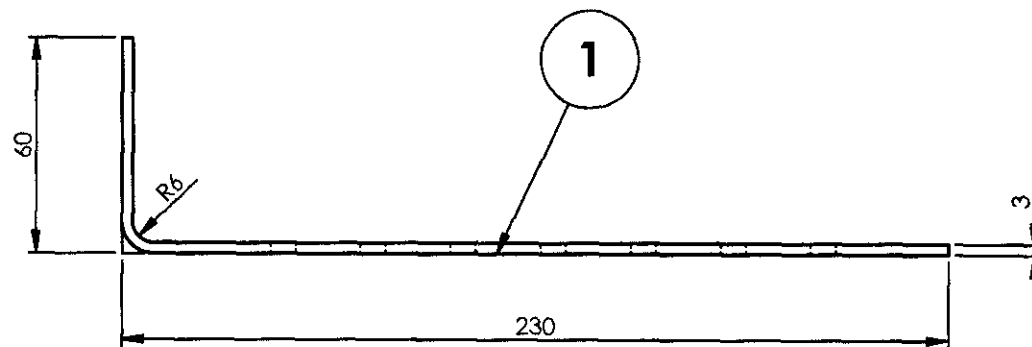
-	14-09-2021	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1		2		3		4		5		6		7		8	
AAD16791				▽ ROUGH MACHINED		⊖ ROUGH CLEANED		REVISIONS							
				▽▽ FINISH MACHINED		⊖⊖ BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE	
				▽▽▽ - NE FINISH MACHINED		⊖⊖⊖ CHAMFERED									
<div><div><div>40</div><div>4</div><div>1</div><div>3 X 45°</div></div><div><div>200</div><div>1</div></div></div>															
<div><div><div>1</div><div>FLAT</div><div>4x40x200</div><div>1</div><div></div><div>RDSO SPEC C-K201 X5 CR NI 18 10</div><div>0.25</div><div></div></div><div><div>Default</div><div>DESCRIPTION</div><div>DIMENSIONS</div><div>ITEM NO.</div><div>REF. DRGS</div><div>MATL.SPEC.</div><div>WT/UNIT IN KGS</div><div>REMARKS</div></div><div><div>GROUP: 1-6 Roof Construction</div><div>SURFACE AREA IN Sq.m.:</div><div>WT/ASSY IN Kgs:</div></div><div><div>FLAT</div><div>SCALE 1:1</div><div>SSE/D CHD</div><div>ALT. ALTD</div><div>DRN B.Suresh</div></div><div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div><div>SHEET 1 OF 1</div><div>AAD16791</div><div>A3</div></div></div>															
REF.DRG.NO.-		17-09-2020		AME/SME											
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME											

AAE16518

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

REVISIONS				APPROVED & DATE	
ALT.	ZONE	DESCRIPTION			



ISOMETRIC VIEW


1	ANGLE	3 x 60 x 284	1		RDSO/SPEC C- K201 X2 Cr Ni 12	0.396	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.036			WT/ASSY IN Kgs:0.396		
ANGLE					SCALE	SSE/D	
					1:2	CHD	
					ALT.	ALTD	
						DRN	Amal George
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038						AAE16518	A3

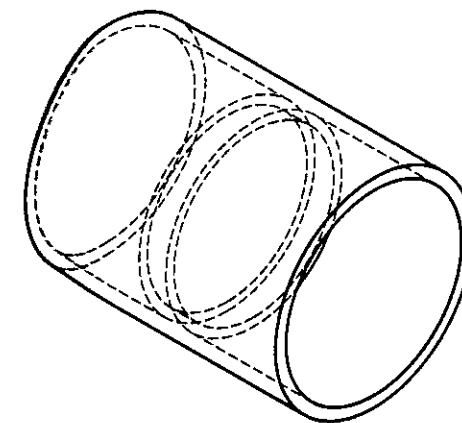
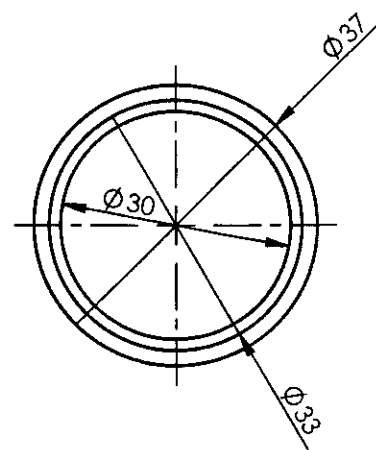
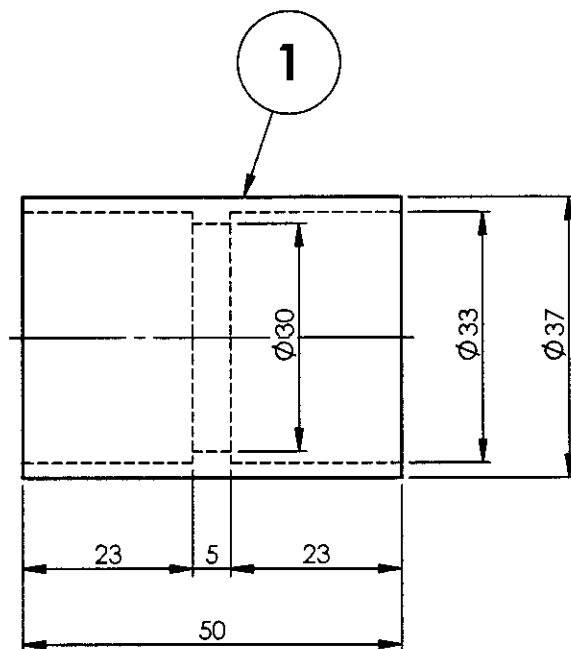
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER IS: 813-1986.

REF.DRG.NO.3.10113.0.20.095.130

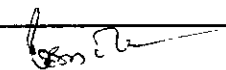
AAE16764


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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE
3		DIAMETER ALTD FROM Ø27 TO Ø30. VIEWS UPDATED.	



ISOMETRIC VIEW

1	COUPLER FOR CONDUITS	50 x 50	1		AISI-304	0.09	
Default	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.01		WT/ASSY IN Kgs:	
COUPLER FOR CONDUITS					SCALE 1:1	SSE/D CHD	
					ALT. a	ALTD DRN	AMAL GEORGE 3D: Amal George 2D: Kunti Thakur
INDIAN RAILWAY STANDARDS					SHEET 1 OF 1		
INTEGRAL COACH FACTORY CHENNAI - 600038					AAE16764		A3

15-10-2024	18-07-2023	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

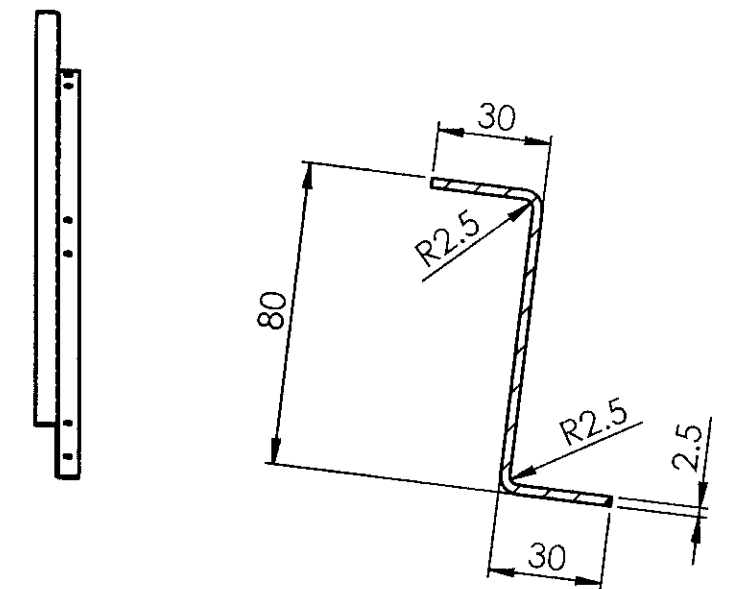
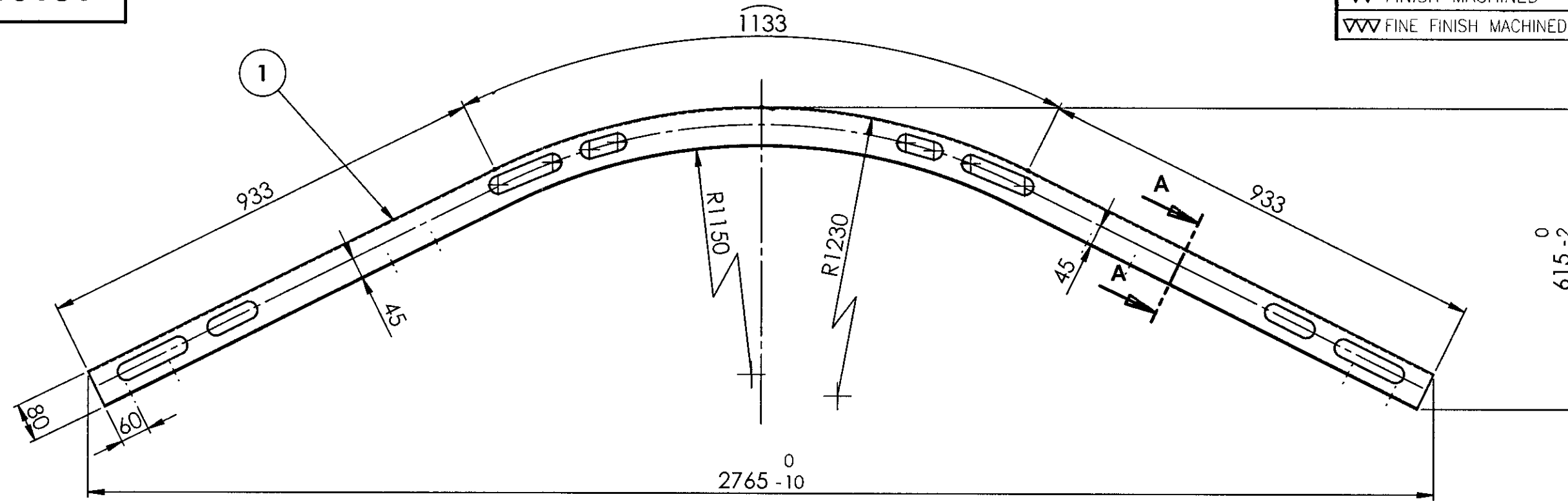
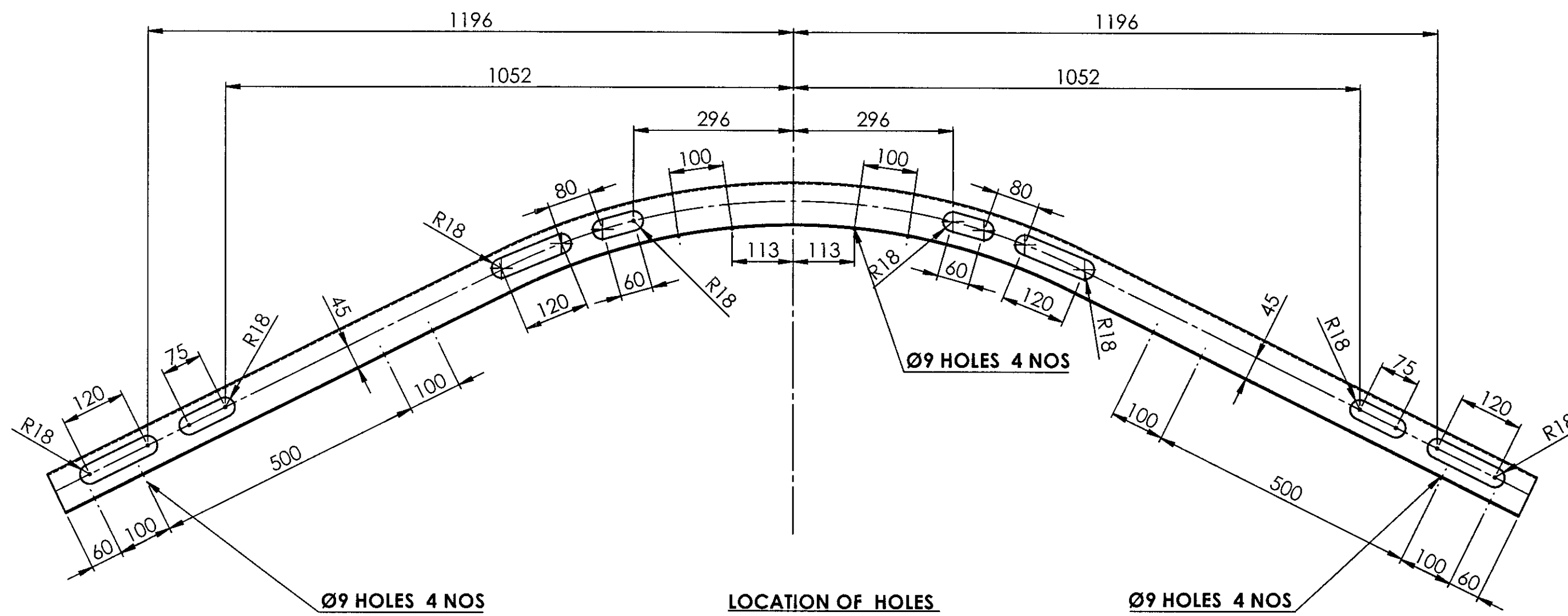
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ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001.  
ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553.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

AA16101

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

SECTION A-A  
SCALE 1 : 2

Ø9 HOLES 4 NOS

LOCATION OF HOLES

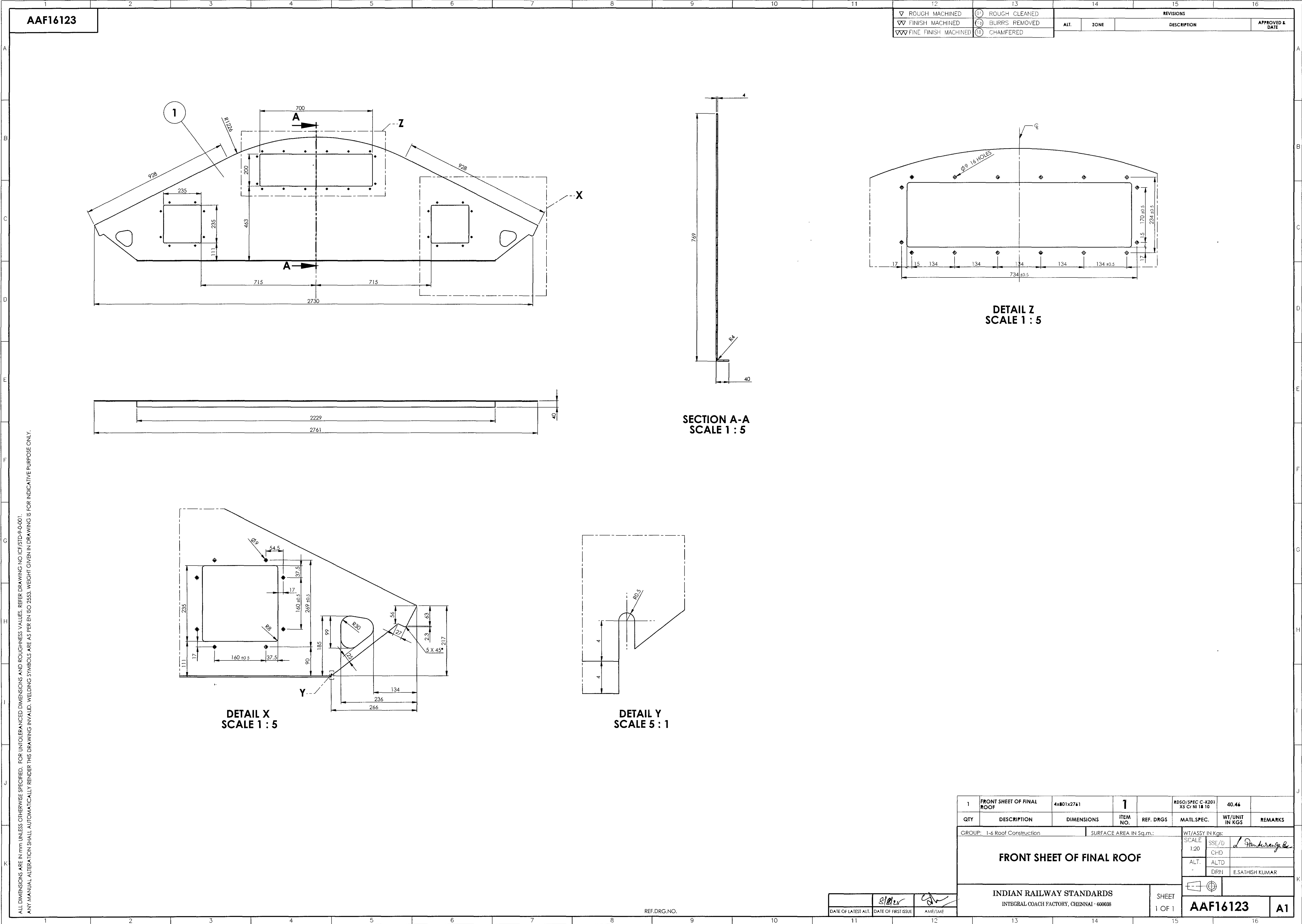
Ø9 HOLES 4 NOS

1	ROOF ARCH COMPLETE	2.5x664x2765	1		RDSO/SPEC C-K201 X2CrNi12	7.09	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.: 0.73		WT/ASSY IN Kgs: 7.09	
ROOF ARCH COMPLETE					SCALE 1:20	SSE/D	CHD
					ALT	ALTD	-
					DRN	DRN	Amal George
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AA16101	
INTEGRAL COACH FACTORY, CHENNAI - 600038						A2	

REF.DRG.NO.LE16101

DATE OF LATEST ALT.	15-07-2025	AME/SME
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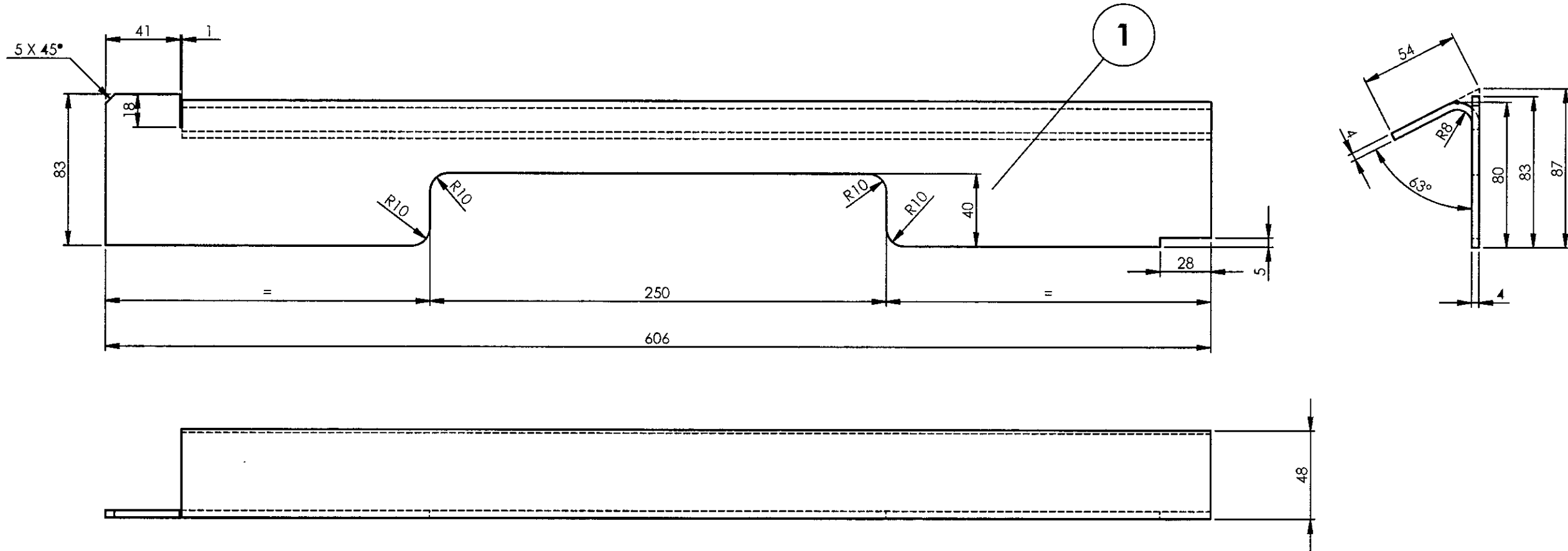
ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO. ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY.



AA116178

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



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.LE16119

	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

1	STIFFENING ANGLE	4 x 123 x 606	1		RDSO/SPEC C- K201 X2 Cr Ni 12	2.006	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.132		WT/ASSY IN Kgs:	
STIFFENING ANGLE					SCALE	SSE/D	
					1:2.5	CHD	
					ALT.	ALTD	
						DRN	Aamal George
INDIAN RAILWAY STANDARDS				SHEET 1 OF 1			
INTEGRAL COACH FACTORY, CHENNAI - 600038						AA116178	
						A3	

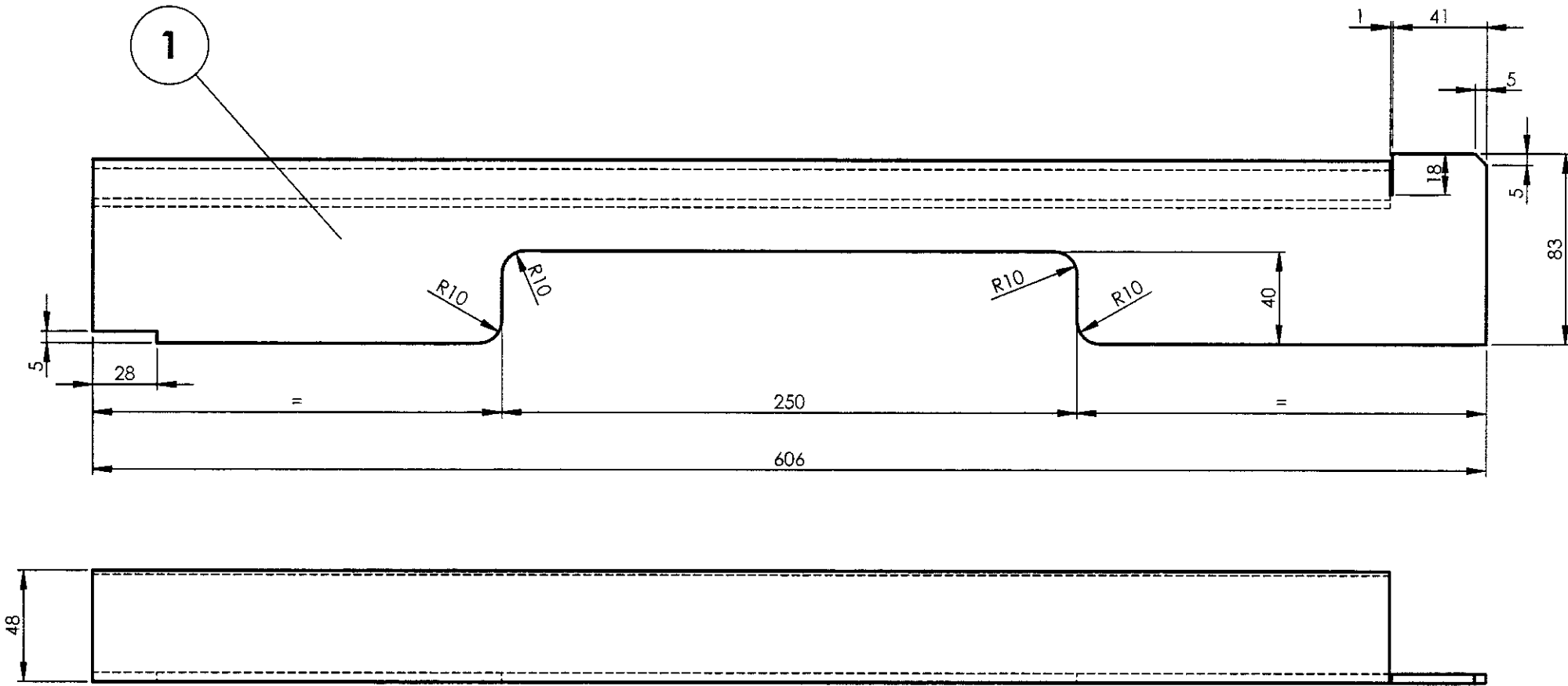


AA16179

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE

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



1	STIFFENING ANGLE	4 x 123 x 606	1		RDSO/SPEC C-K201 X2 Cr Ni 12	2.006	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.132		WT/ASSY IN Kgs:	
STIFFENING ANGLE					SCALE 1:5	SSE/D	
						CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038						DRN	Amal George
					SHEET 1 OF 1		
AA16179						A3	

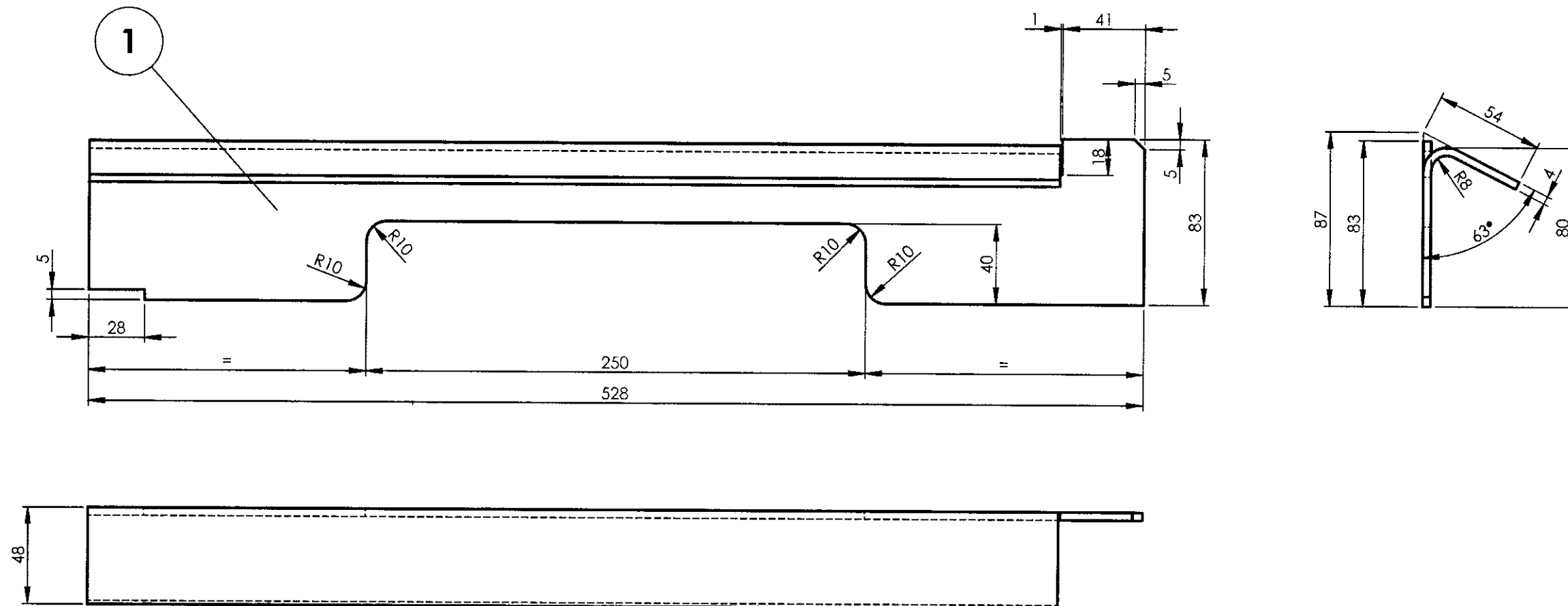
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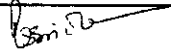

	15-07-2025	
DATE OF LATEST ALT.	DATE OF FIRST ISSUE	AME/SME

**AAF16180**

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

REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



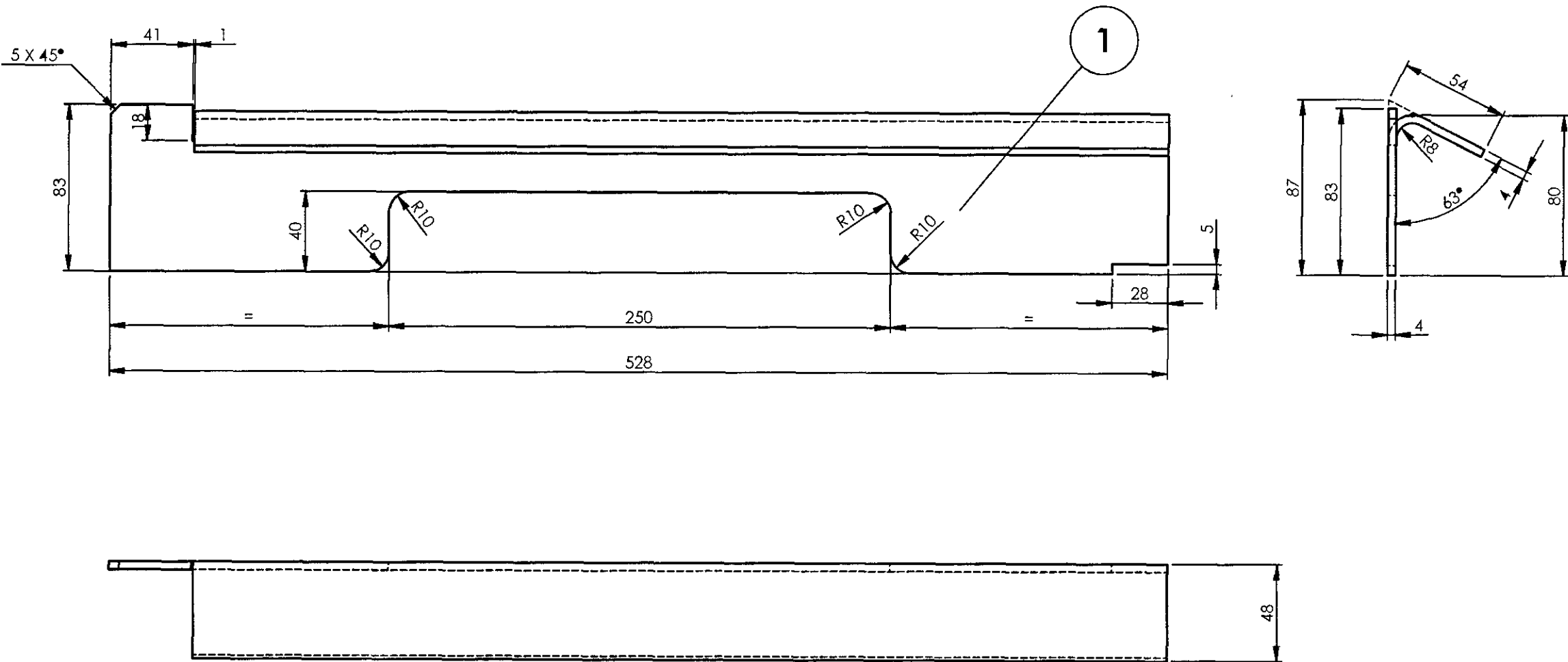
1	STIFFENING ANGLE	4 x 123 x 528	1		RDSO/SPEC C- K201 X2 Cr Ni 12	1.699	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 ROOF ASSEMBLY		SURFACE AREA IN Sq.m.:0.112			WT/ASSY IN Kgs:		
STIFFENING ANGLE					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	AMAL GEORGE
INDIAN RAILWAY STANDARDS INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAF16180		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

AAF16181

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

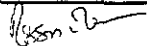
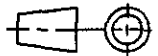
REVISIONS			
ALT.	ZONE	DESCRIPTION	APPROVED & DATE



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.LE16122

	15-07-2025	
DATE OF LATEST ALT	DATE OF FIRST ISSUE	AME/SME

1	STIFFENING ANGLE	4 x 123 x 528	1		RDSO/SPEC C- K201 X2 Cr Ni 12	1.699	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
GROUP: 1-6 Roof Construction		SURFACE AREA IN Sq.m.:0.112			WT/ASSY IN Kgs:		
STIFFENING ANGLE					SCALE	SSE/D	
					1:5	CHD	
					ALT.	ALTD	
						DRN	Amal George
INDIAN RAILWAY STANDARDS  INTEGRAL COACH FACTORY, CHENNAI - 600038				SHEET 1 OF 1			
					AAF16181		A3

1		2		3		4		5		6		7		8		
AAF16194				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS								
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE	
				▽▽▽ FINE FINISH MACHINED		①c CHAMFERED										
<div><div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-Q-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>1</div><div>5</div><div>5</div><div>22</div><div>47</div><div>10</div><div>10</div><div>73</div></div><div><div>5</div><div>10</div><div>10</div><div>73</div><div>5</div></div></div><div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div></div><div><div>15-07-2025</div><div>DATE OF FIRST ISSUE</div><div>AME/SME</div></div><div><div>1</div><div>RIB</div><div>5 x 47 x 73</div><div>1</div><div>REF. DRGS</div><div>RDSO SPEC C-K201 X2 Cr Ni 12</div><div>0.10</div><div>REMARKS</div></div><div><div>GROUP: 1-6 Roof Construction</div><div>SURFACE AREA IN Sq.m.:0.01</div><div>WT/ASSY IN Kgs:</div></div><div><div>SCALE 1:1</div><div>SSE/D CHD</div><div>ALT. ALT.D</div><div>DRN Amal George</div></div><div><div>INDIAN RAILWAY STANDARDS</div><div>INTEGRAL COACH FACTORY, CHENNAI - 600038</div></div><div><div>SHEET 1 OF 1</div><div>AAF16194</div><div>A3</div></div></div></div></div></div>																
1		2		3		4		5		6		7		8		

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AAf16195				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																
				▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																																																										
				▽▽ FINE FINISH MACHINED		①8 CHAMFERED																																																																		
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div><p>1</p></div>																																																																								
<table><tr><td>1</td><td>PLATE</td><td>5x130x200</td><td>1</td><td></td><td>RDSO/SPEC C-K201 X2 Cr Ti 12</td><td>0.96</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: 1-6 Roof Construction</td><td colspan="2">SURFACE AREA IN Sq.m.:0.05</td><td>WT/ASSY IN Kgs:</td></tr><tr><td colspan="5" rowspan="3">PLATE</td><td>SCALE</td><td>SSE/D</td><td rowspan="2"></td></tr><tr><td>1:5</td><td>CHD</td></tr><tr><td>ALT.</td><td>ALTD</td><td></td></tr><tr><td colspan="5" rowspan="2">INDIAN RAILWAY STANDARDS</td><td colspan="2">DRN</td><td>Amal George</td></tr><tr><td colspan="2"></td><td></td></tr><tr><td colspan="5">INTEGRAL COACH FACTORY, CHENNAI - 600038</td><td colspan="2">SHEET 1 OF 1</td><td>AAf16195</td><td>A3</td></tr></table>																1	PLATE	5x130x200	1		RDSO/SPEC C-K201 X2 Cr Ti 12	0.96		QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS	GROUP: 1-6 Roof Construction					SURFACE AREA IN Sq.m.:0.05		WT/ASSY IN Kgs:	PLATE					SCALE	SSE/D		1:5	CHD	ALT.	ALTD		INDIAN RAILWAY STANDARDS					DRN		Amal George				INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		AAf16195	A3
1	PLATE	5x130x200	1		RDSO/SPEC C-K201 X2 Cr Ti 12	0.96																																																																		
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS																																																																	
GROUP: 1-6 Roof Construction					SURFACE AREA IN Sq.m.:0.05		WT/ASSY IN Kgs:																																																																	
PLATE					SCALE	SSE/D																																																																		
					1:5	CHD																																																																		
					ALT.	ALTD																																																																		
INDIAN RAILWAY STANDARDS					DRN		Amal George																																																																	
INTEGRAL COACH FACTORY, CHENNAI - 600038					SHEET 1 OF 1		AAf16195	A3																																																																
REF.DRG.NO.LS10172,Alt-f /ITEM-19		15-07-2025																																																																						
DATE OF LATEST ALT.		DATE OF FIRST ISSUE		AME/SME																																																																				

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AAf16196				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																							
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION		APPROVED & DATE																	
				▽▽▽ FINE FINISH MACHINED		①8 CHAMFERED																									
<div>ALL DIMENSIONS ARE IN mm UNLESS OTHERWISE SPECIFIED. FOR UNTOLERANCED DIMENSIONS AND ROUGHNESS VALUES, REFER DRAWING NO ICF/STD-9-0-001. ANY MANUAL ALTERATION SHALL AUTOMATICALLY RENDER THIS DRAWING INVALID. WELDING SYMBOLS ARE AS PER EN ISO 2553. WEIGHT GIVEN IN DRAWING IS FOR INDICATIVE PURPOSE ONLY</div> <div></div>																															
																1		PLATE		5x130x200		1		RDSO/SPEC C-K201 X2CrNi12		0.98					
																QTY		DESCRIPTION		DIMENSIONS		ITEM NO.		REF. DRGS		MATL.SPEC.		WT/UNIT IN KGS		REMARKS	
																GROUP: 1-6 Roof Construction				SURFACE AREA IN Sq.m.:0.05				WT/ASSY IN Kgs:							
																PLATE				SCALE		SSE/D		Amal George							
1:2		CHD																													
ALT.		ALTD																													
				ALT.		DRN		Amal George																							
				INDIAN RAILWAY STANDARDS				SHEET 1 OF 1		AAf16196				A3																	
				INTEGRAL COACH FACTORY, CHENNAI - 600034																											
REF.DRG.NO.		DATE OF LATEST ALT		DATE OF FIRST ISSUE		AME/SME																									
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AAF16197				▽ ROUGH MACHINED		① ROUGH CLEANED		REVISIONS																																																																																				
				▽▽ FINISH MACHINED		①b BURRS REMOVED		ALT.		ZONE		DESCRIPTION			APPROVED & DATE																																																																													
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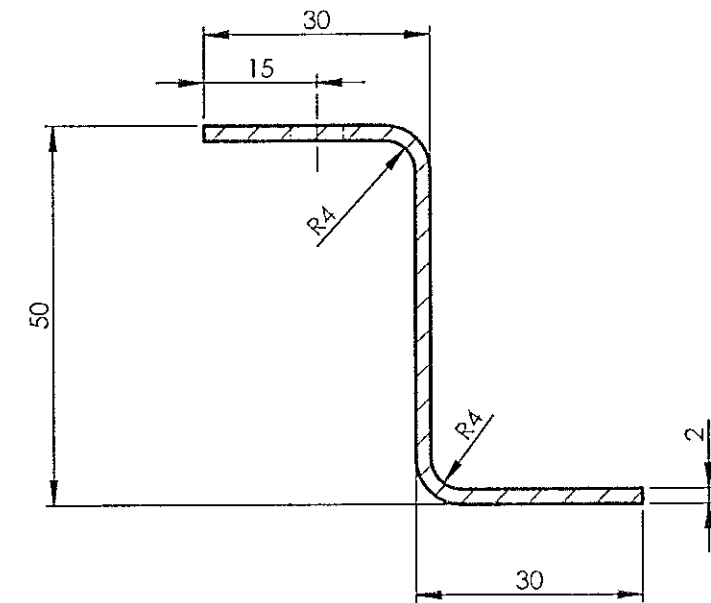
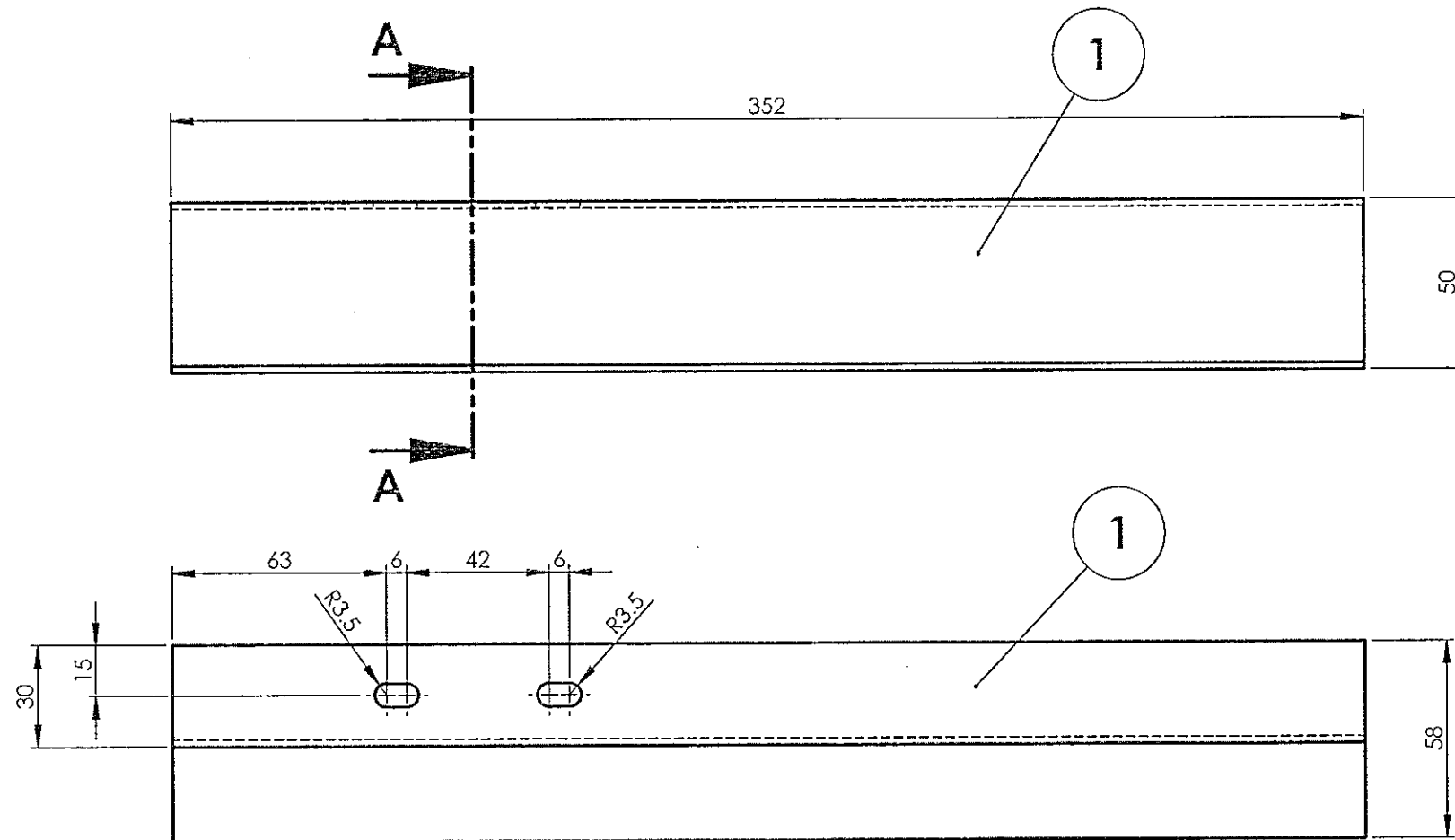
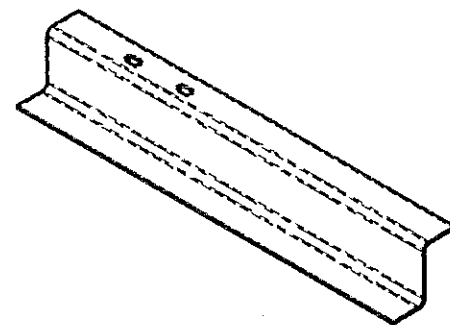


AA16293

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

REVISIONS

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

ISOMETRIC VIEW

1	Z MEMBER	2 x 102 x 352	1		RDSO/SPEC C-K201 X2CrNi12	0.57	
QTY	DESCRIPTION	DIMENSIONS	ITEM NO.	REF. DRGS	MATL.SPEC.	WT/UNIT IN KGS	REMARKS
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Z- MEMBER (RH)					SCALE	SSE/D	1:2
					ALT.	CHD	
					ALT.	ALTD	
INDIAN RAILWAY STANDARDS					DRN	Amal George	
					SHEET 1 OF 1		
INTEGRAL COACH FACTORY, CHENNAI - 600038					AA16293		
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REF.DRG.NO.LE16106 alt-a

DATE OF LATEST ALT.	10-11-2025	AME/SME
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