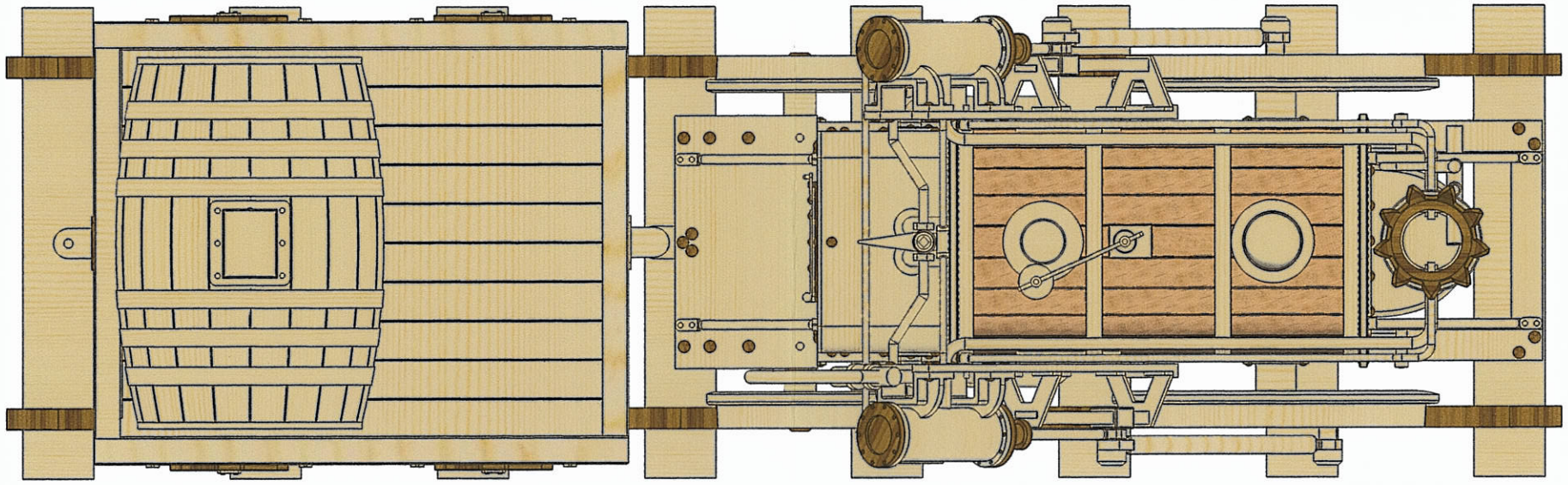
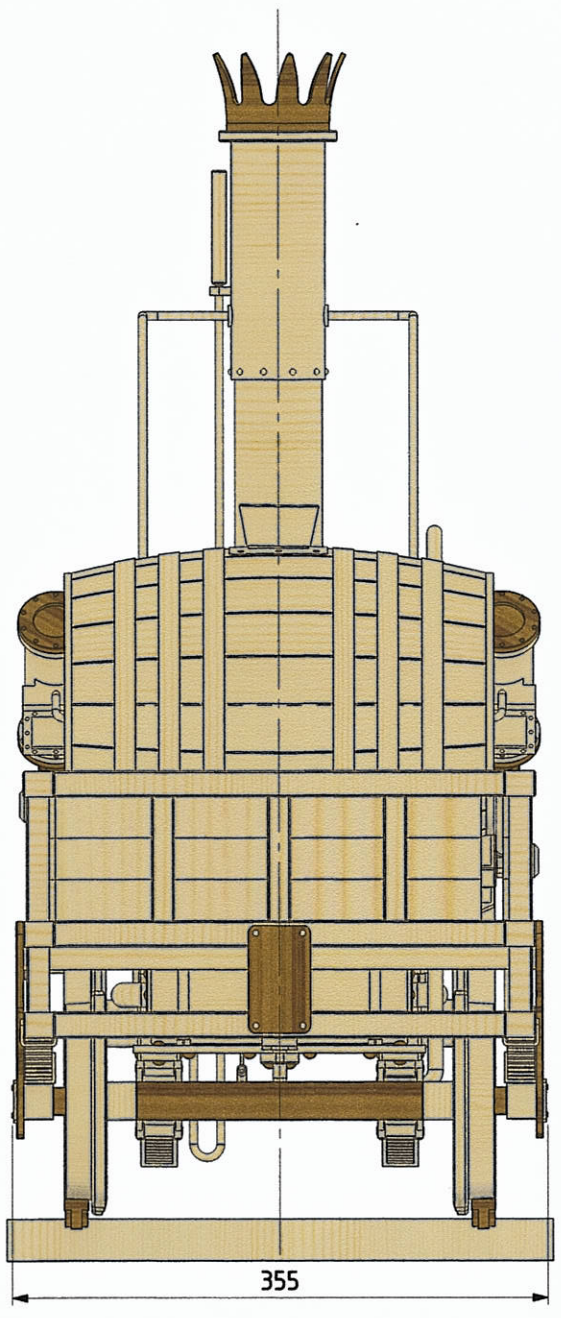
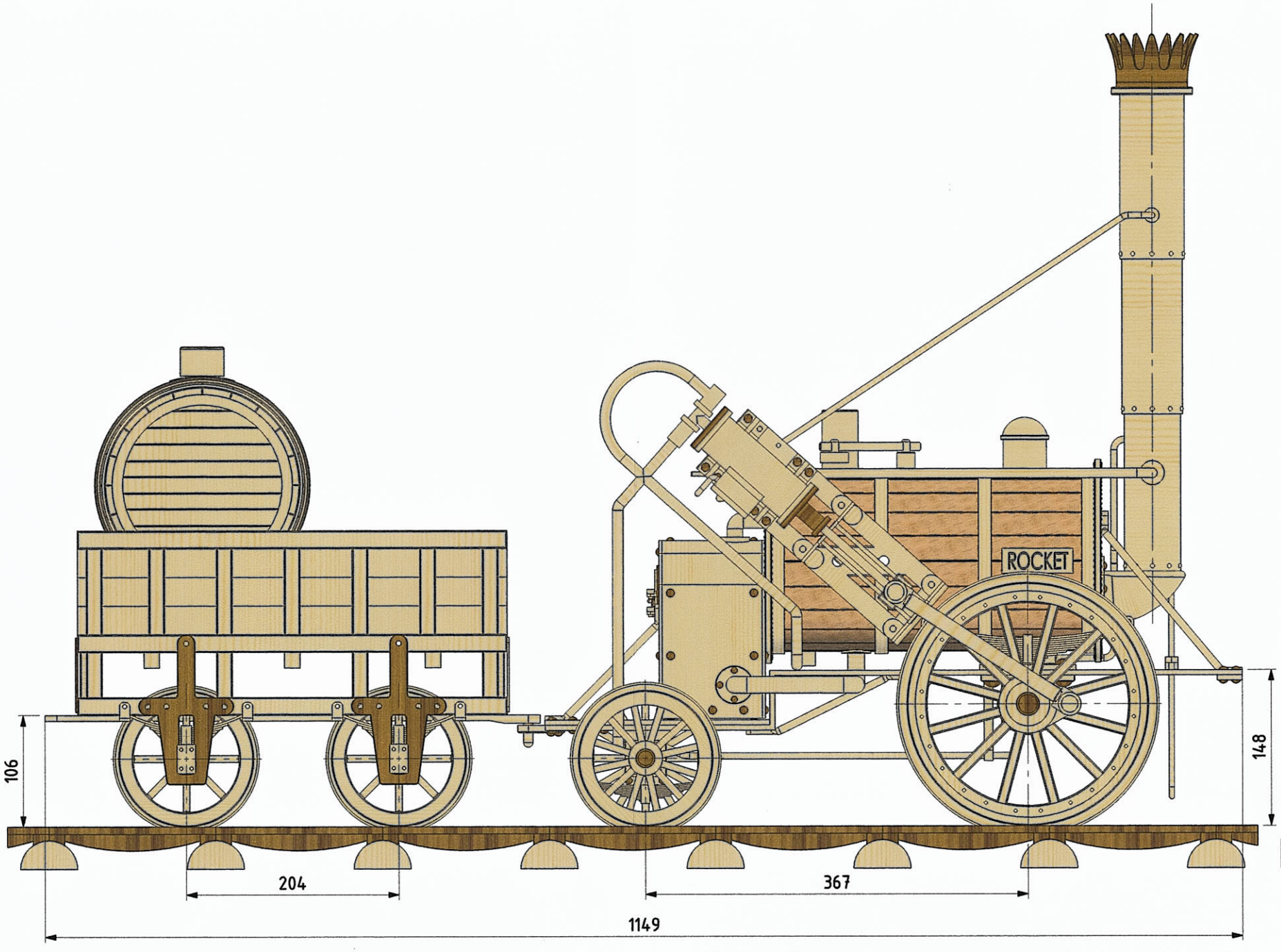
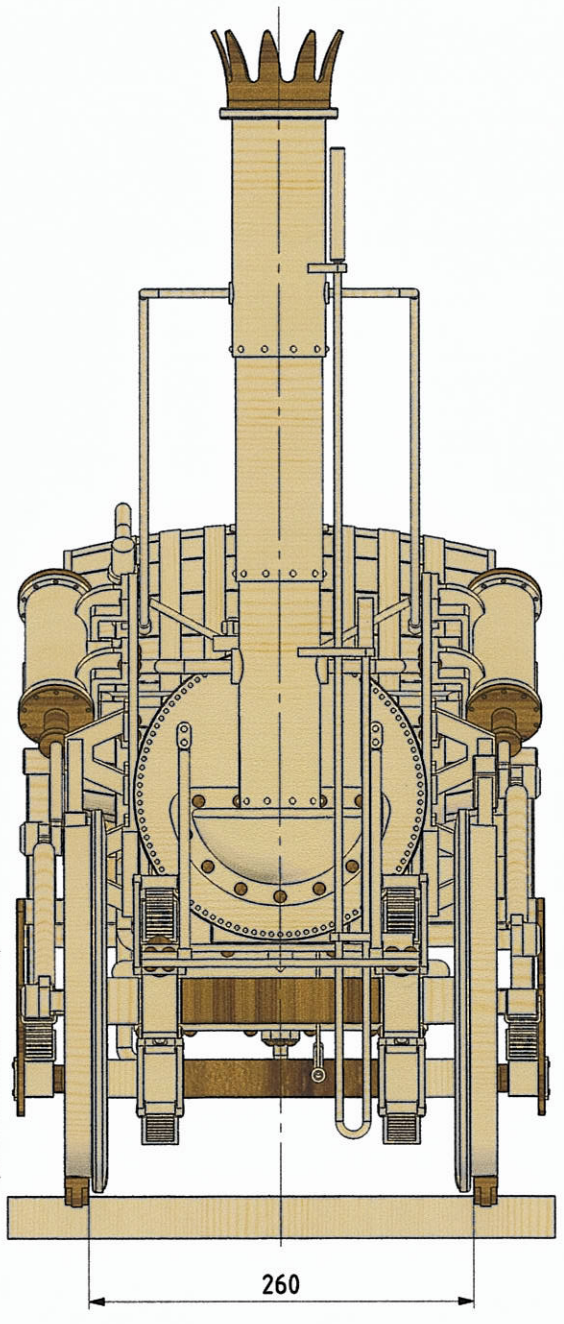








A3

TITLE

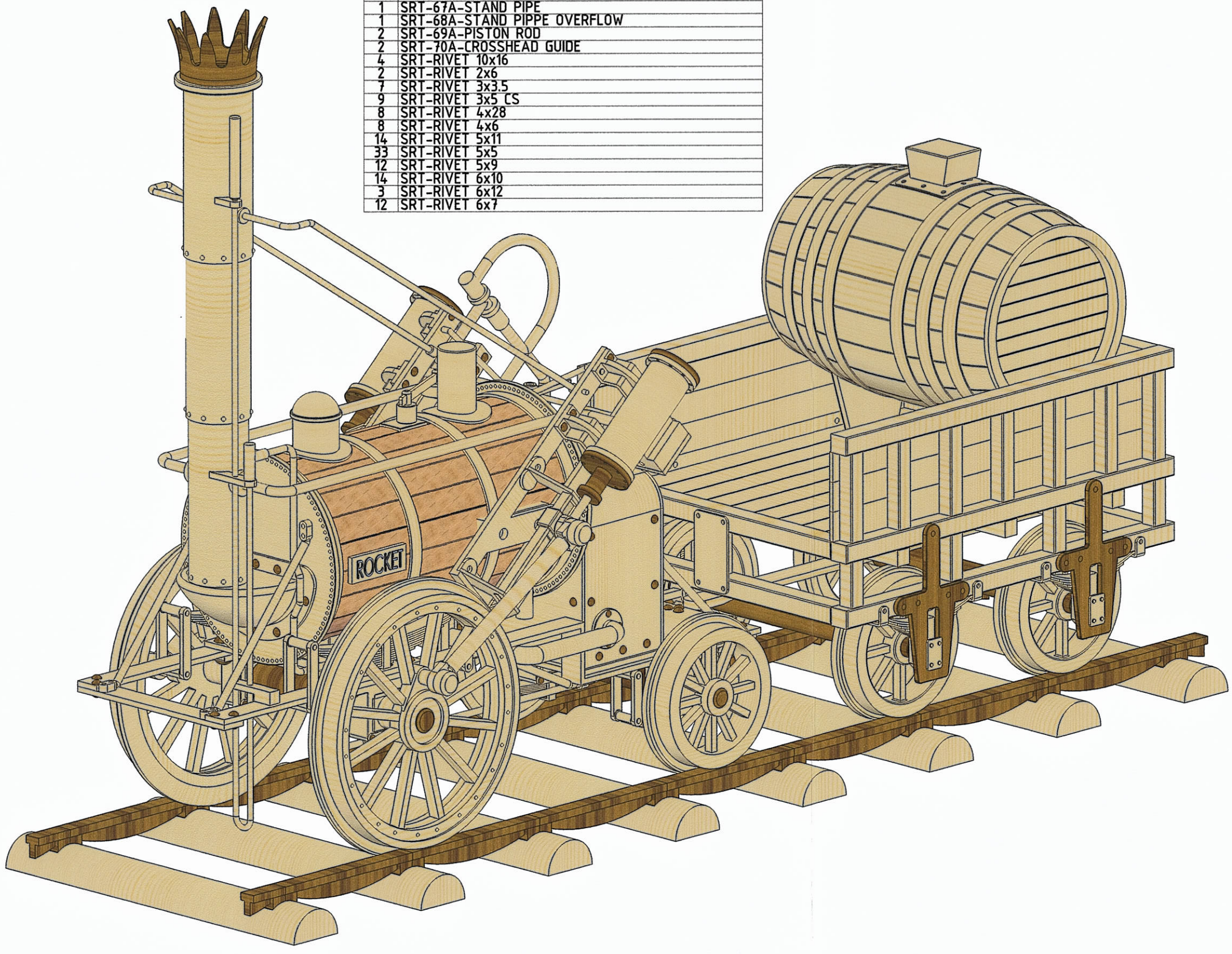
1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET
GENERAL ARRANGEMENT

REV	DESCRIPTION	DATE
A	ISSUED FOR CONSTRUCTION	

JDW DRAUGHTING SERVICES
12 BRIGHTWELL STREET
PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY	J.A.M. DE WAAL
DATE	FEB-2008
PROJECTION	
SCALE	AS STATED
DRAWING NUMBER	1829SRT
SHEET	0A
REV	A

QTY.	PART NUMBER
4	SRT-54A-END CAP
1	SRT-55A-PULL BAR
1	SRT-56A-WATER BARREL TOP
2	SRT-57A-NAME PLATE
1	SRT-58-59A-SMOKE STACK
1	SRT-60A-SMOKE STACK CROWN
2	SRT-61A-EXHAUST STEAM PIPE
1	SRT-62A-STEAM RELIEF PIPE
1	SRT-63A-WATER PIPE
1	SRT-64A-STEAM EQUALIZER PIPE
2	SRT-65A-STEAM INLET PIPE
1	SRT-66A-STEAM SUPPLY PIPES
1	SRT-67A-STAND PIPE
1	SRT-68A-STAND PIPPE OVERFLOW
2	SRT-69A-PISTON ROD
2	SRT-70A-CROSSHEAD GUIDE
4	SRT-RIVET 10x16
2	SRT-RIVET 2x6
7	SRT-RIVET 3x3.5
9	SRT-RIVET 3x5 CS
8	SRT-RIVET 4x28
8	SRT-RIVET 4x6
14	SRT-RIVET 5x11
33	SRT-RIVET 5x5
12	SRT-RIVET 5x9
14	SRT-RIVET 6x10
3	SRT-RIVET 6x12
12	SRT-RIVET 6x7



QTY.	PART NUMBER
1	SRT-01A-SIDE BEAM-1
1	SRT-01A-SIDE BEAM-2
1	SRT-01B-FRONT BEAM
1	SRT-01C-FOOT PLATE
1	SRT-01D-PULLING PLATE
1	SRT-01E-BOILER SUPPORT PLATE
1	SRT-01F-BOILER SUPPORT
1	SRT-02-03A-FIRE BOX MANTLE
2	SRT-02-03B-FIRE BOX MANTLE FLANGE
1	SRT-02-03C-FIRE BOX BRACKET
1	SRT-04A-FIRE BOX DOOR END PLATE
1	SRT-04B-FIRE BOX FIRE DOOR SUROUND
2	SRT-04C-FIRE DOOR HINGE
4	SRT-04D-FIRE BOX INSIDE ANGLE
2	SRT-04E-FIRE BOX INSIDE TOP ANGLE
1	SRT-04F-FIRE BOX FIRE DOOR
2	SRT-04G-FIRE BOX FIRE DOOR HINGE STRAP
1	SRT-04H-FIRE BOX FIRE DOOR LATCH
1	SRT-04J-FIRE BOX FIRE DOOR LATCH REST
1	SRT-05A-FIRE BOX BOILER END PLATE
1	SRT-06A-BOILER END PLATE FIRE BOX END
1	SRT-07A-BOILER END PLATE SMOKE BOX END
1	SRT-07B-SMOKE BOX MOUNTING PLATE
1	SRT-08A-SAFETY VALVE
1	SRT-09A-STEAM DOME TOP
1	SRT-10-11A-SMOKE BOX
4	SRT-12-13B CYLINDER MOUNTING BRIDGE
1	SRT-12A-LH CYLINDER MOUNTING PLATE
1	SRT-13A-RH CYLINDER MOUNTING PLATE
1	SRT-14-15A-LH CYLINDER
1	SRT-14-15B-LH CYLINDER PISTON ROD COVER
2	SRT-14-15C-LH CYLINDER VALVE CHAMBER
2	SRT-14-15D-LH CYLINDER VALVE CHAMBER LID
1	SRT-16-17A-RH CYLINDER
1	SRT-16-17B-RH CYLINDER PISTON ROD COVER
2	SRT-18A-CYLINDER TOP COVER
2	SRT-19A-LARGE LEAF SPRING
2	SRT-20A-FRONT BEARING HOLDER
2	SRT-20B-FRONT BEARING BLOCK
4	SRT-20C-FRONT BEARING BLOCK STRAP
2	SRT-21A-REAR BEARING HOLDER
2	SRT-21B-REAR BEARING BLOCK
4	SRT-21C-REAR BEARING BLOCK STRAP
2	SRT-21D-SMALL LEAF SPRING
2	SRT-22A-FRONT WHEEL
2	SRT-23A-REAR WHEEL
4	SRT-24A-TENDER WHEEL
1	SRT-25A-FRONT WHEEL AXLE
1	SRT-26A-REAR WHEEL AXLE
2	SRT-27A-TENDER WHEEL AXLE
2	SRT-28A-RAIL
1	SRT-29-30A-BOILER
1	SRT-29-30B-BOILER SAFETY VAVLE MOUNTING PLATE
1	SRT-29-30B-BOILER STEAM DOME
1	SRT-29-30C-BOILER SAFETY VALVE PIPE
1	SRT-29-30D-BOILER WATER CONNECTOR
1	SRT-29-30E-BOILER WATER DUMP
2	SRT-31-32A-TENDER SIDE FRAME
6	SRT-31-32B-TENDER SIDE PLANK
4	SRT-31-32C-TENDER AXLE BOX FRAME
8	SRT-31-32D-TENDER SPRING RETAINER
4	SRT-31-32E-TENDER LEAF SPRING
4	SRT-31-32F-AXLE BOX
1	SRT-33A-TENDER BACK FRAME
3	SRT-33B-TENDER BACK PLANK
1	SRT-34A-TENDER FRONT FRAME
1	SRT-35A-TENDER FLOOR
1	SRT-36-37-38A-WATER BARREL
1	SRT-36-37-38B-WATER BARREL COLLAR
1	SRT-36-37-38C-WATER BARREL STAND
8	SRT-39A-SLEEPER
1	SRT-40A-OVERFLOW PIPE
2	SRT-41A-FRONT STIFFENING STRUT
2	SRT-42A-REAR STIFFENING STRUT
2	SRT-43A-MIDDLE STIFFENING STRUT
1	SRT-44A-SMOKE STACK STAY
1	SRT-45A-SMOKE STACK STAY
1	SRT-46A-MOUNTING PLATE STIFFENING BRACKET
4	SRT-47A-LARGE LEAF SPRING MOUNTING STRAP
4	SRT-48A-SMALL LEAF SPRING MOUNTING STRAP
1	SRT-49A-STEAM CONTROL VALVE
1	SRT-50A-CONTROL VALVE HANDLE
2	SRT-51A-CONNECTION ROD
4	SRT-52A-CROSS HEAD GUIDE MOUNTING PLATE
2	SRT-53A-CROSSHEAD

A3

TITLE

1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET
GENERAL ARRANGEMENT

REV	DESCRIPTION	DATE
A	ISSUED FOR CONSTRUCTION	

JDW DRAUGHTING SERVICES
12 BRIGHTWELL STREET
PAPAKURA NEW ZEALAND
TEL/FAX 0064-09-2988815
E-MAIL:dewaal@xtra.co.nz

DRAWN BY: J.A.M. DE WAAL

PROJECTION

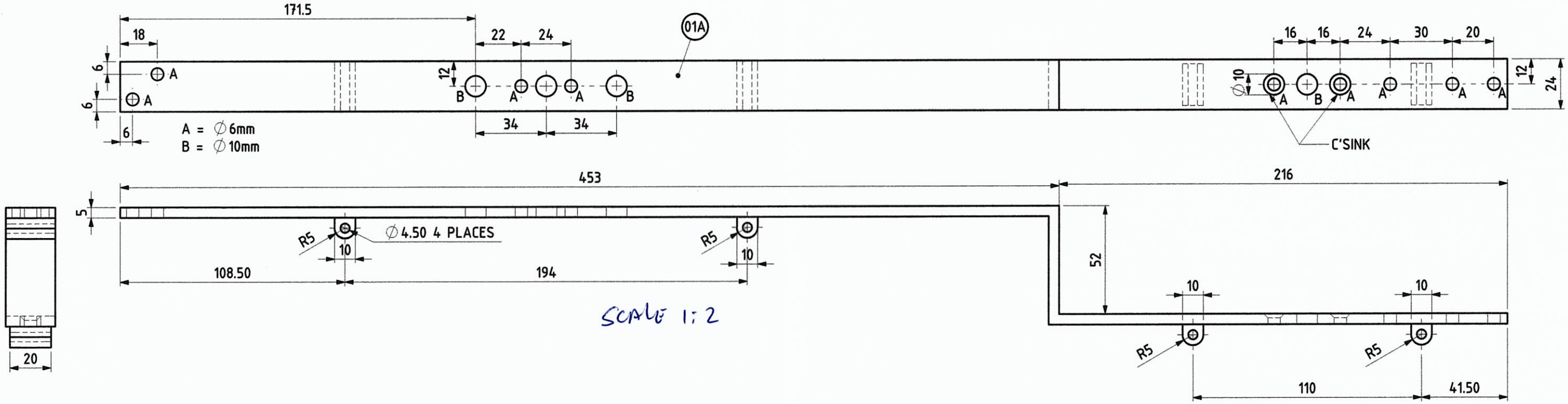
DRAWING NUMBER: 1829SRT

DATE: FEB-2008

SCALE: AS STATED

SHEET: 0B

REV: A



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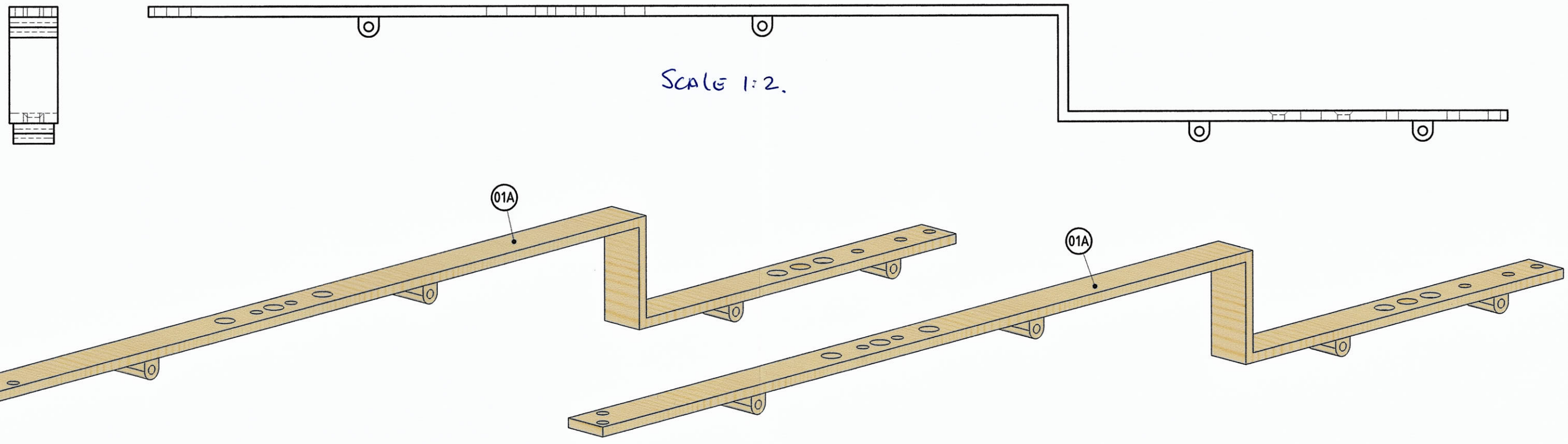
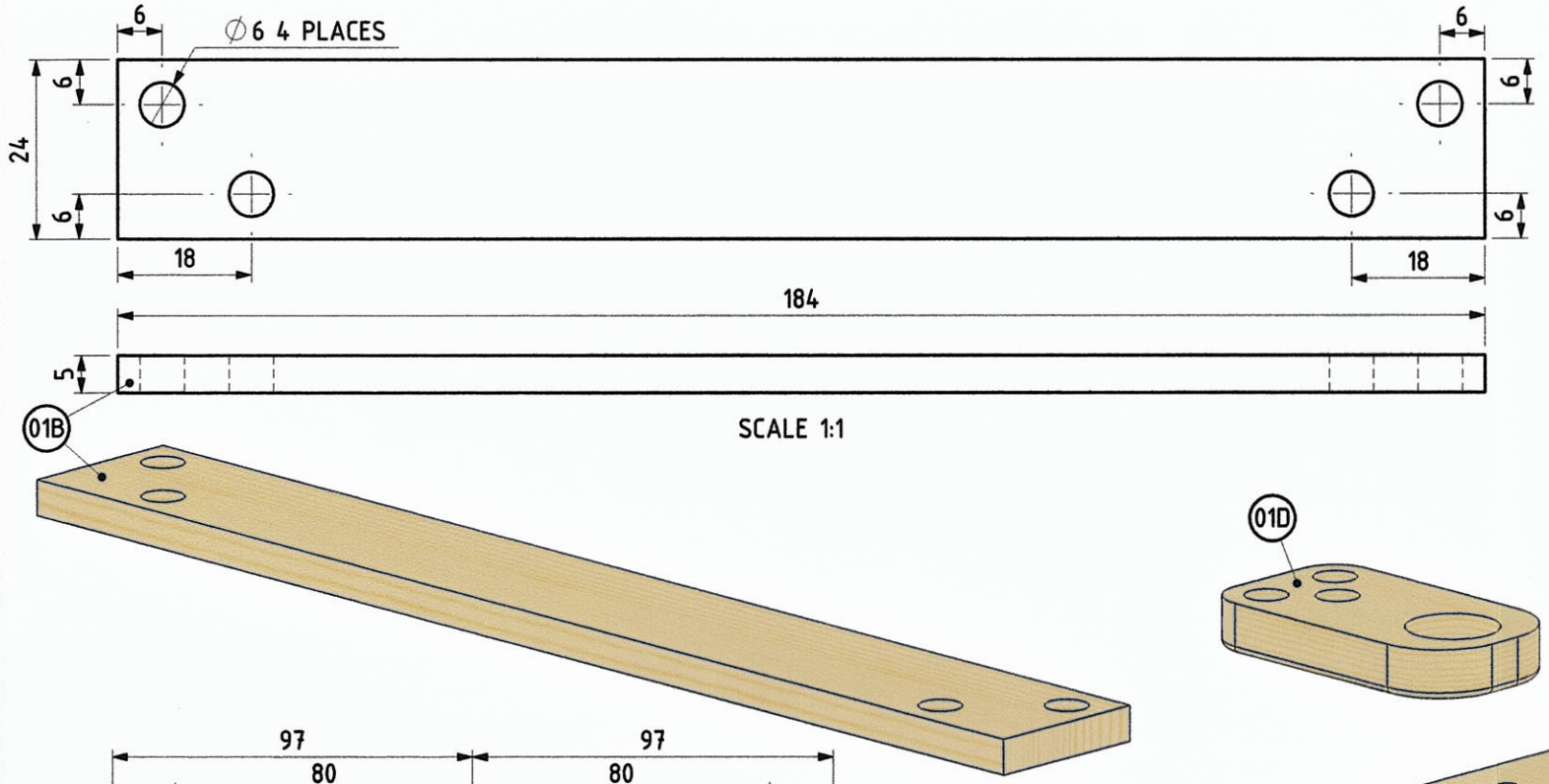
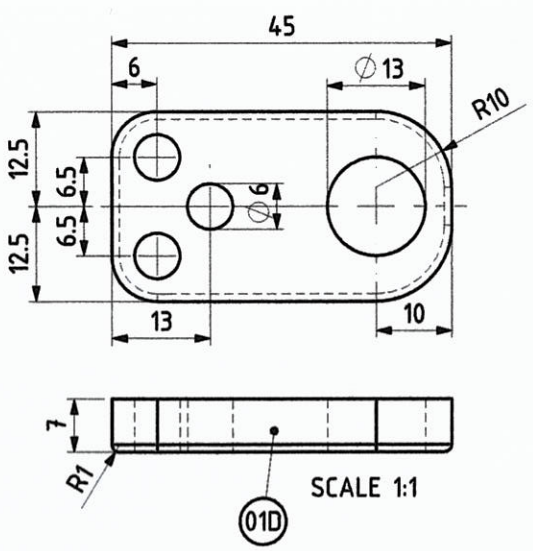
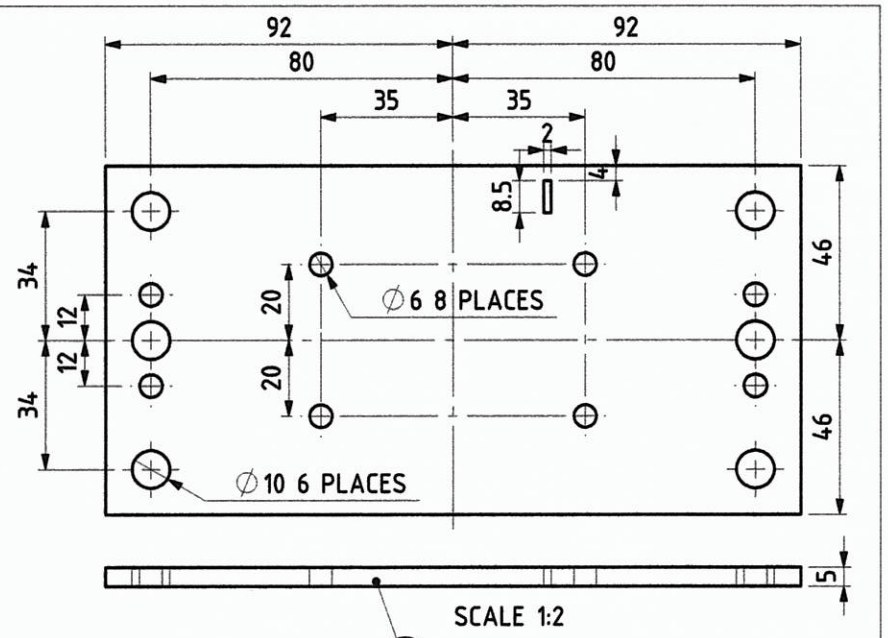
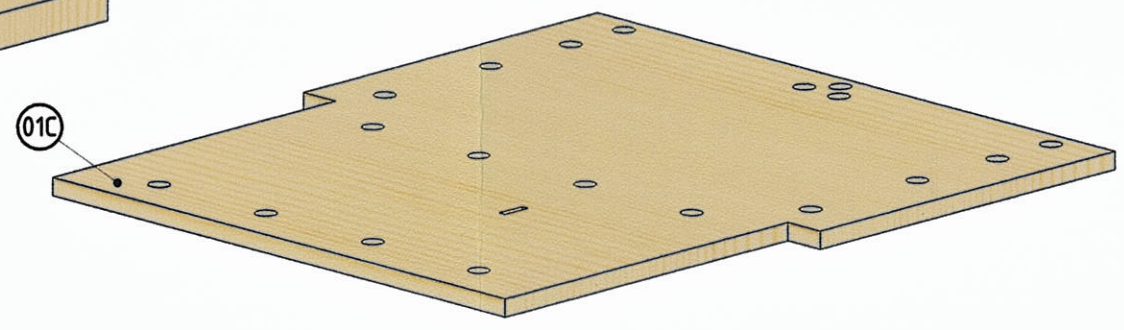


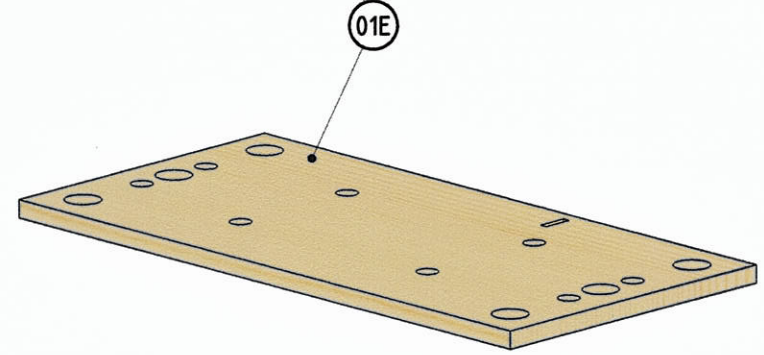
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS	REV	DESCRIPTION	DATE	JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008	PROJECTION SCALE AS STATED	DRAWING NUMBER 1829SRT SHEET 01 REV A
		A	ISSUED FOR CONSTRUCTION				

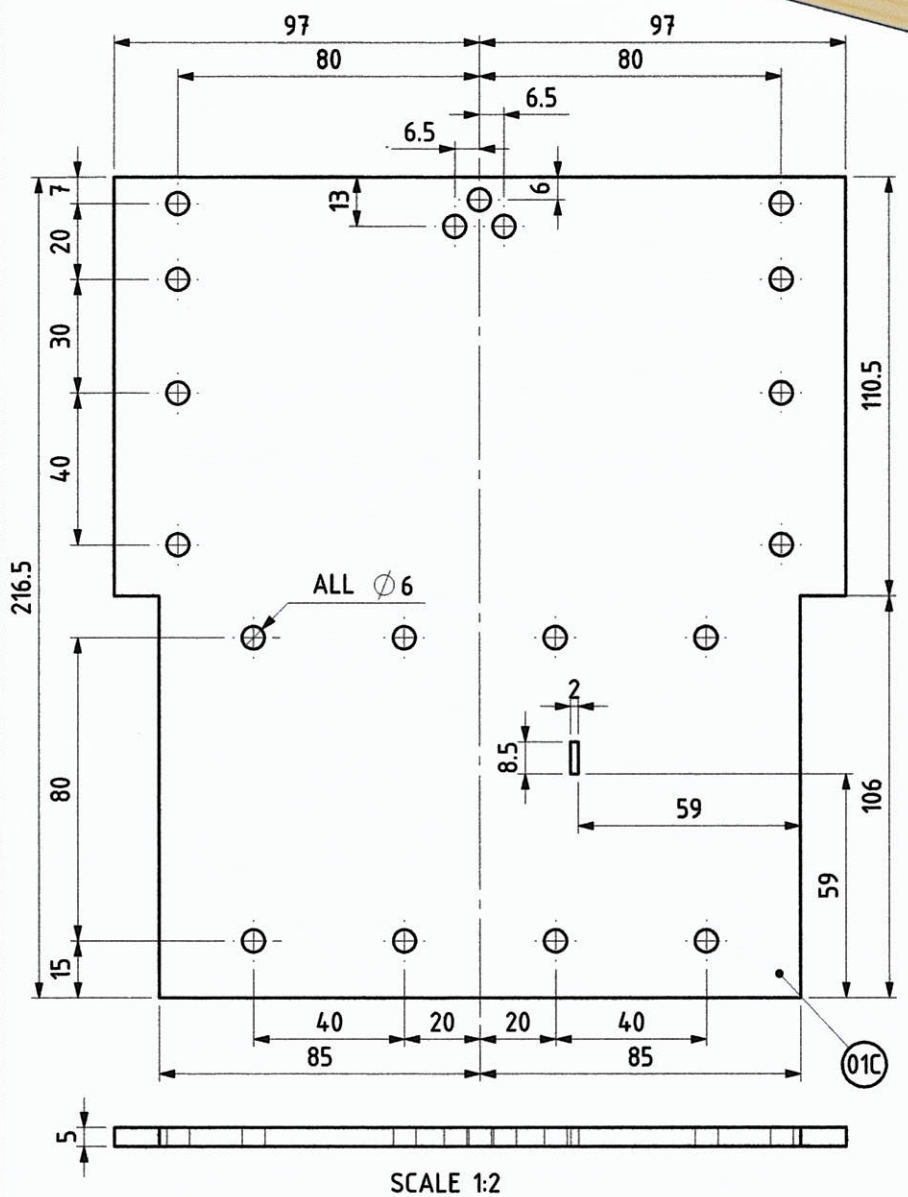


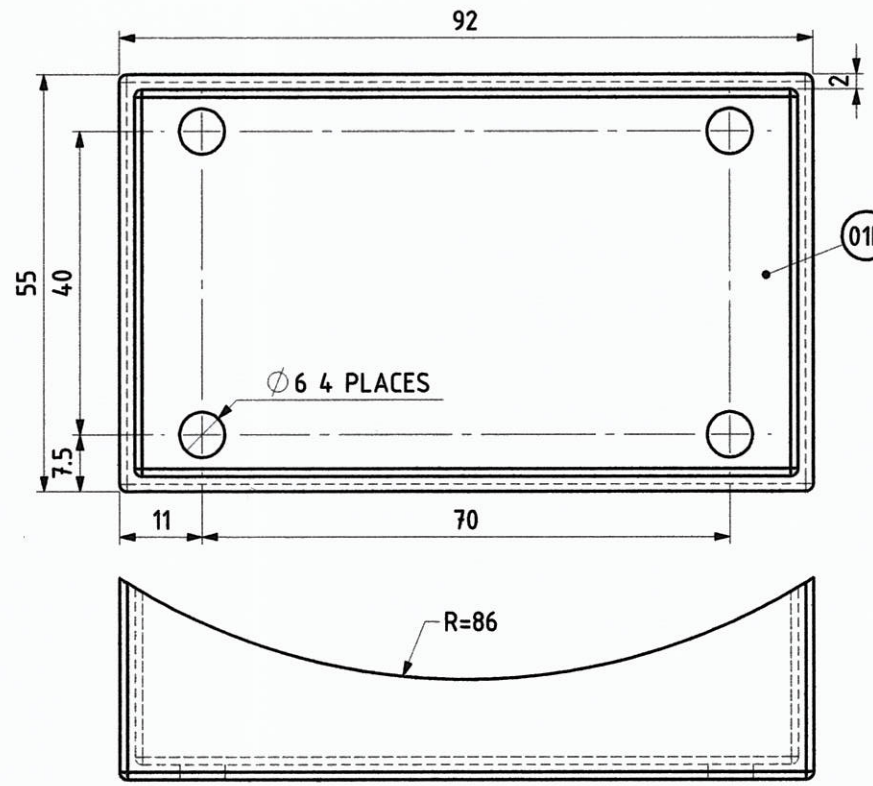


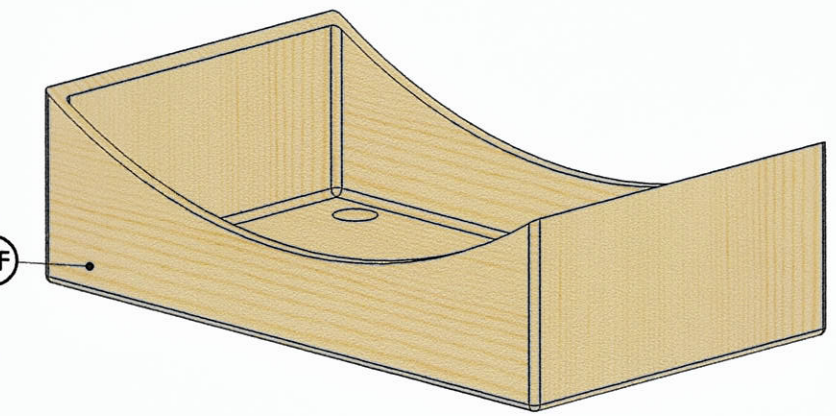






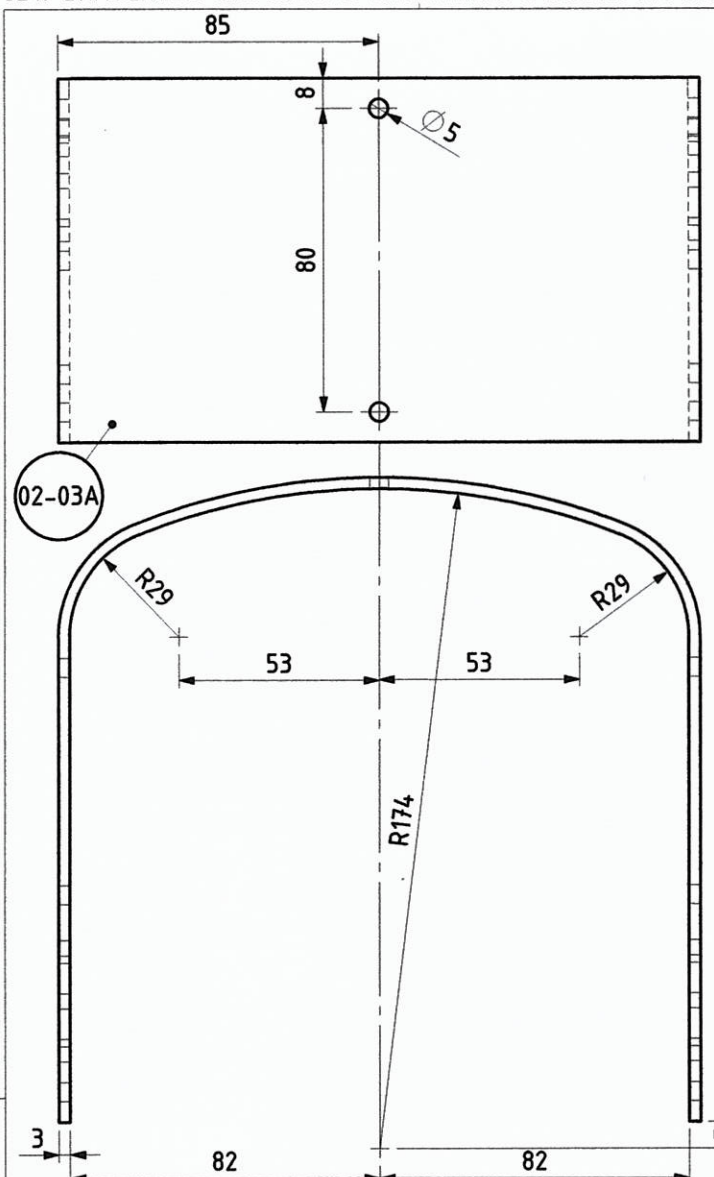


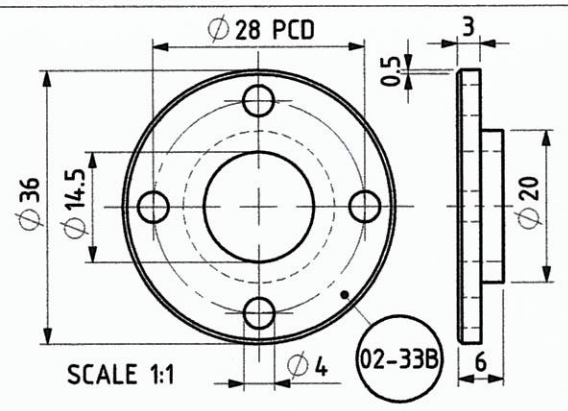


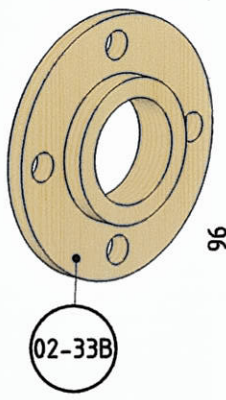


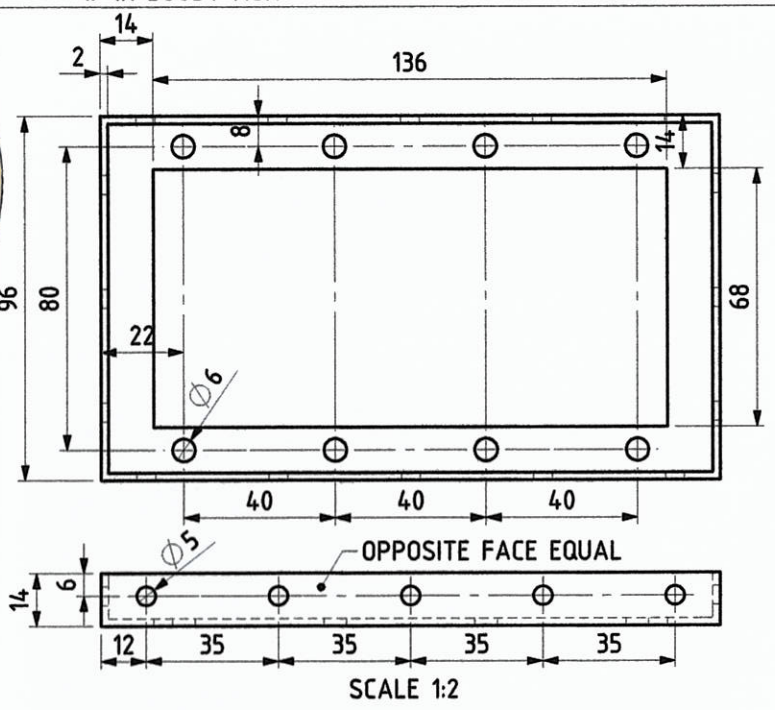
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A	ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 02 REV A
		REV	DESCRIPTION	DATE			

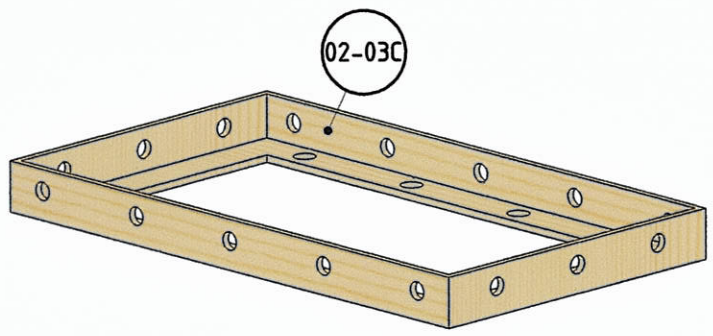
IF NOT STATED ALL CHAMFERS ARE 0.2 x 45°

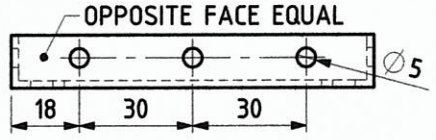


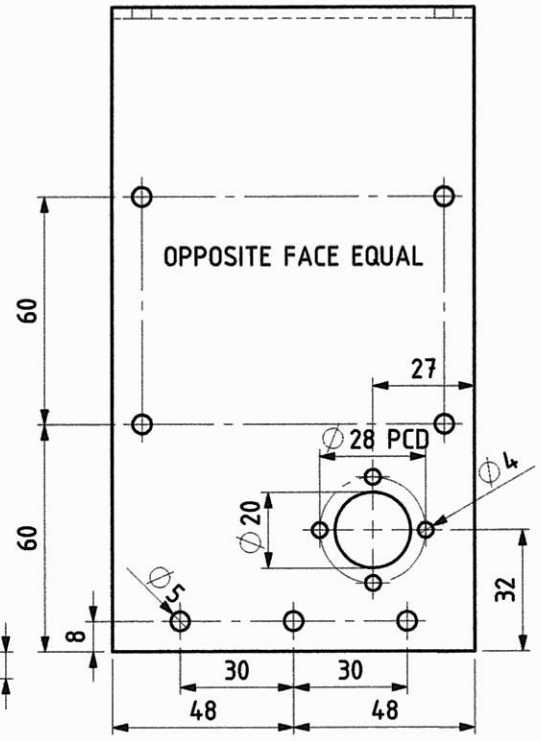


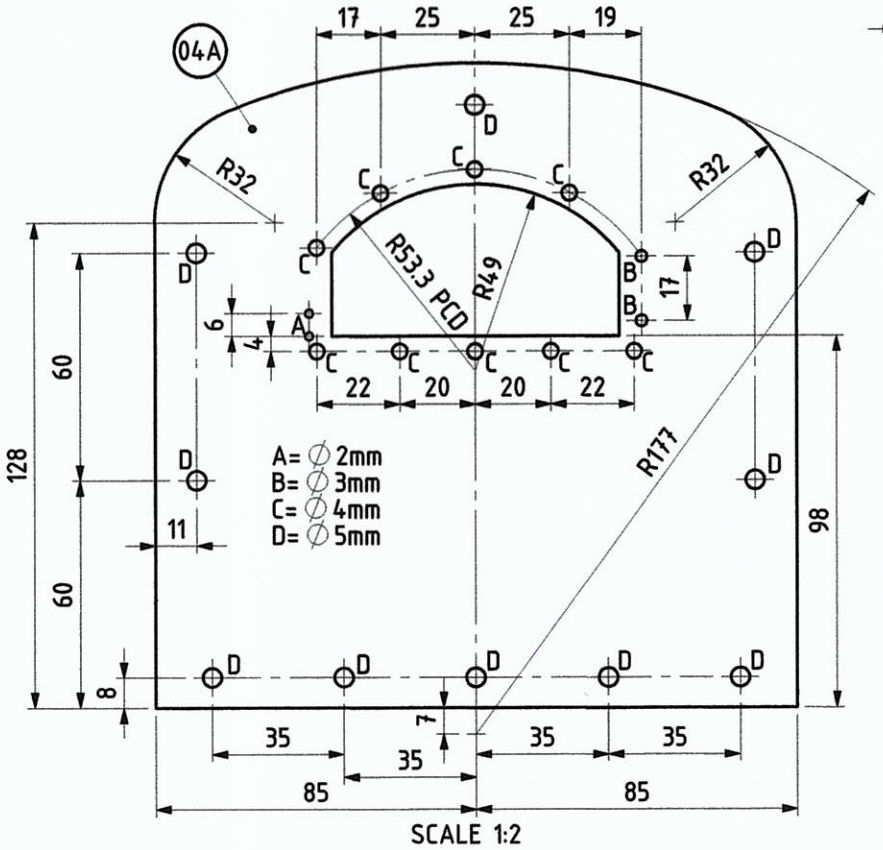


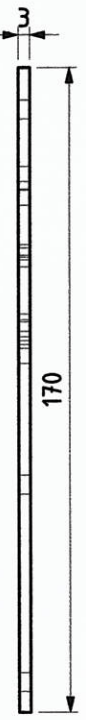


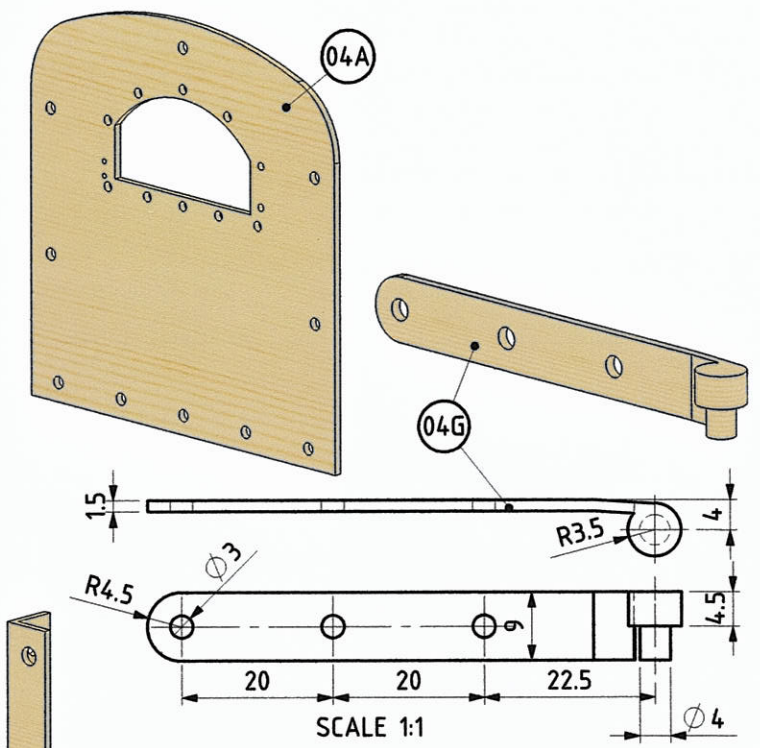


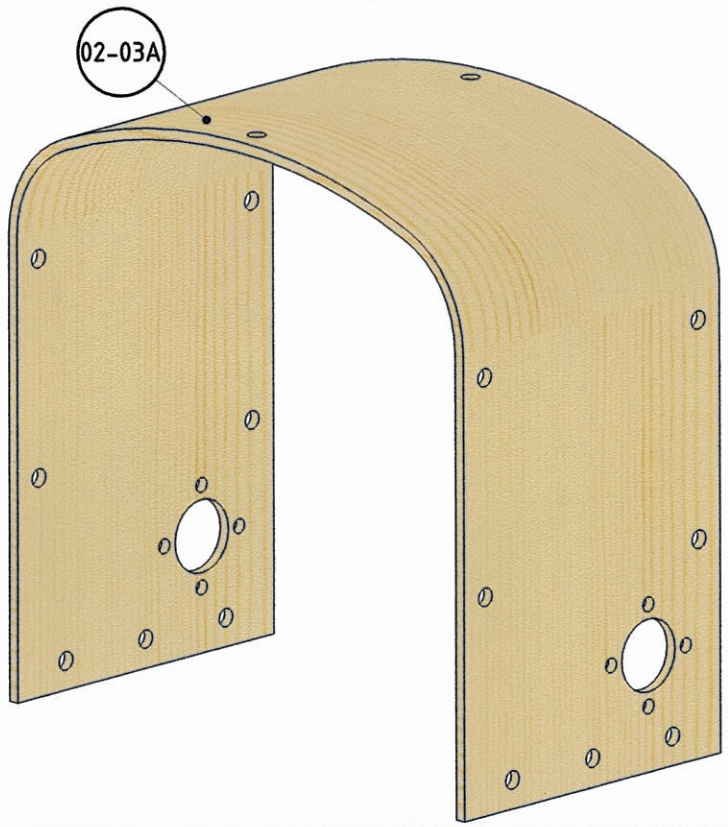


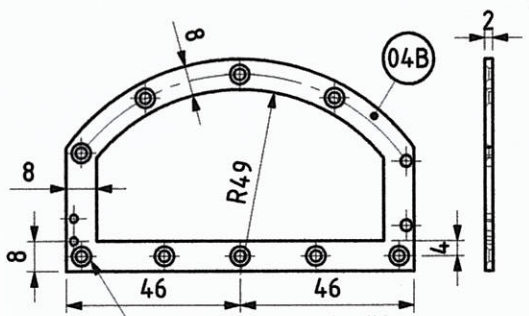


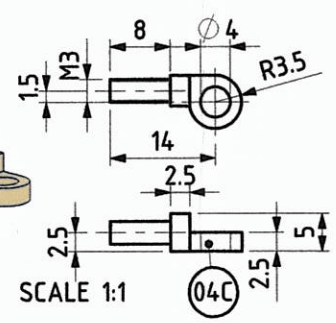


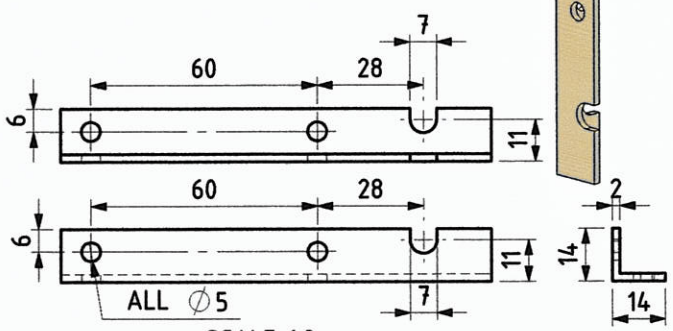


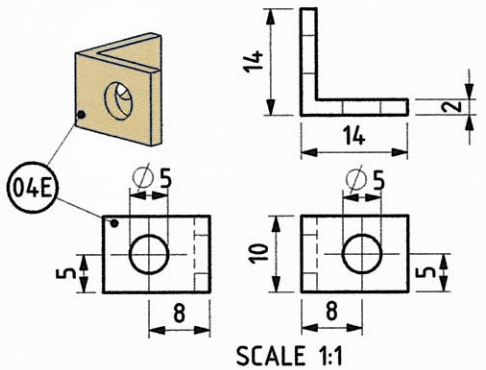




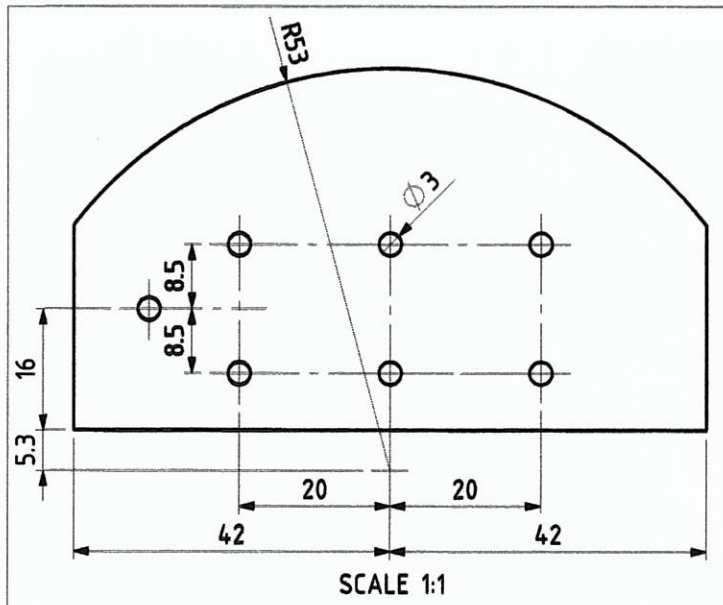




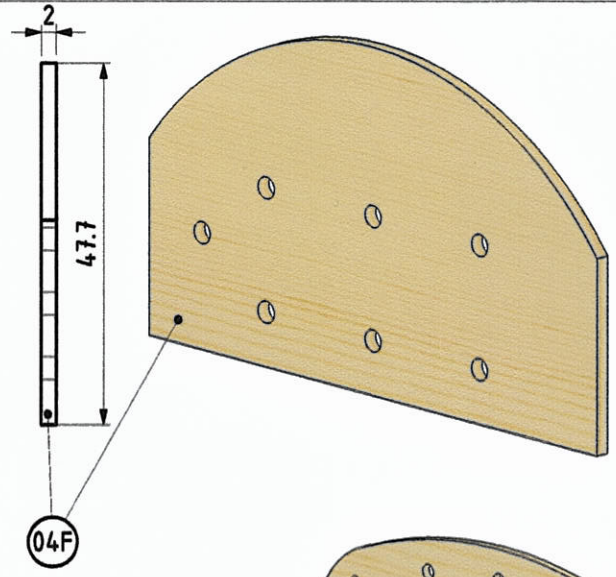


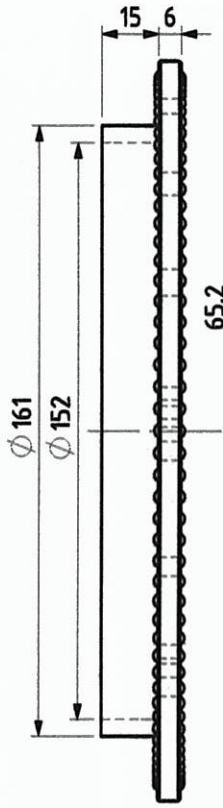


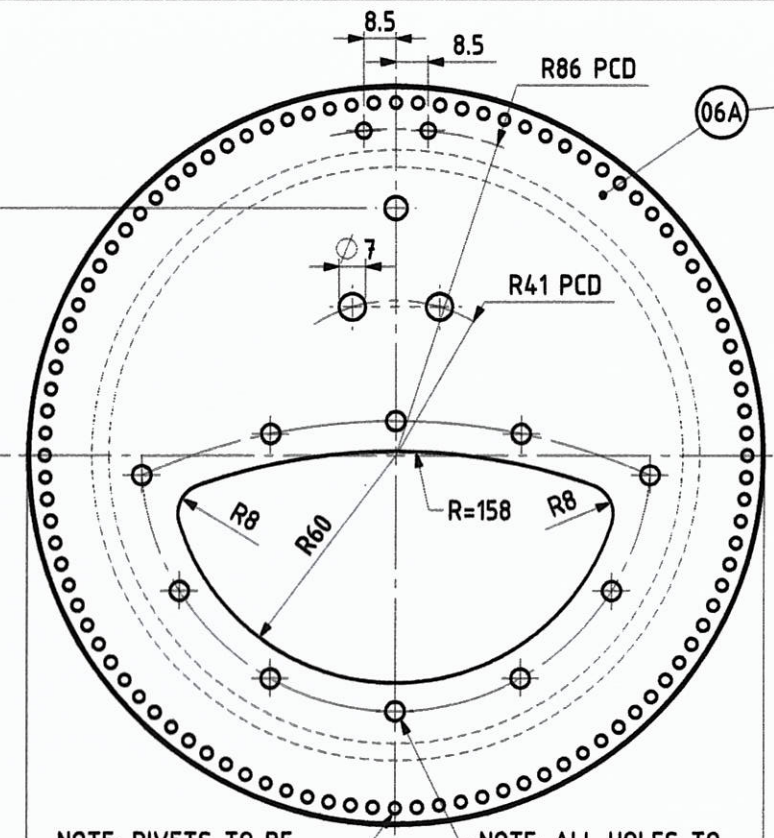
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 03 REV A
		REV DESCRIPTION DATE				



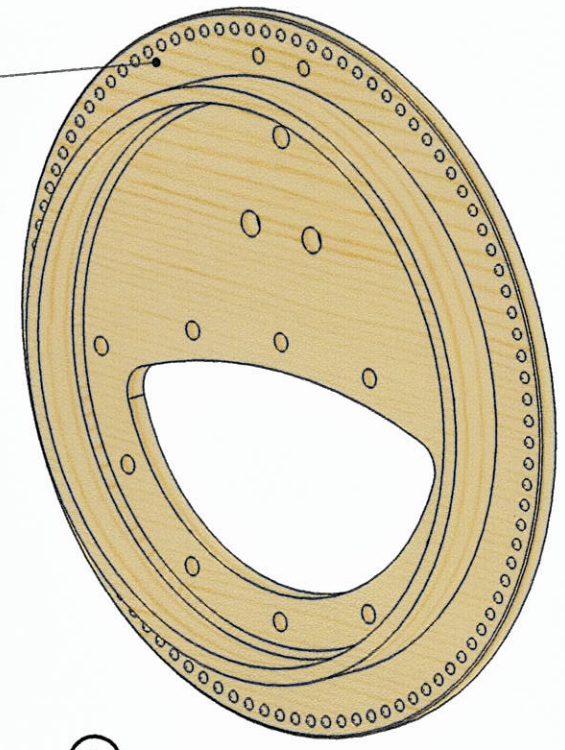
SCALE 1:1

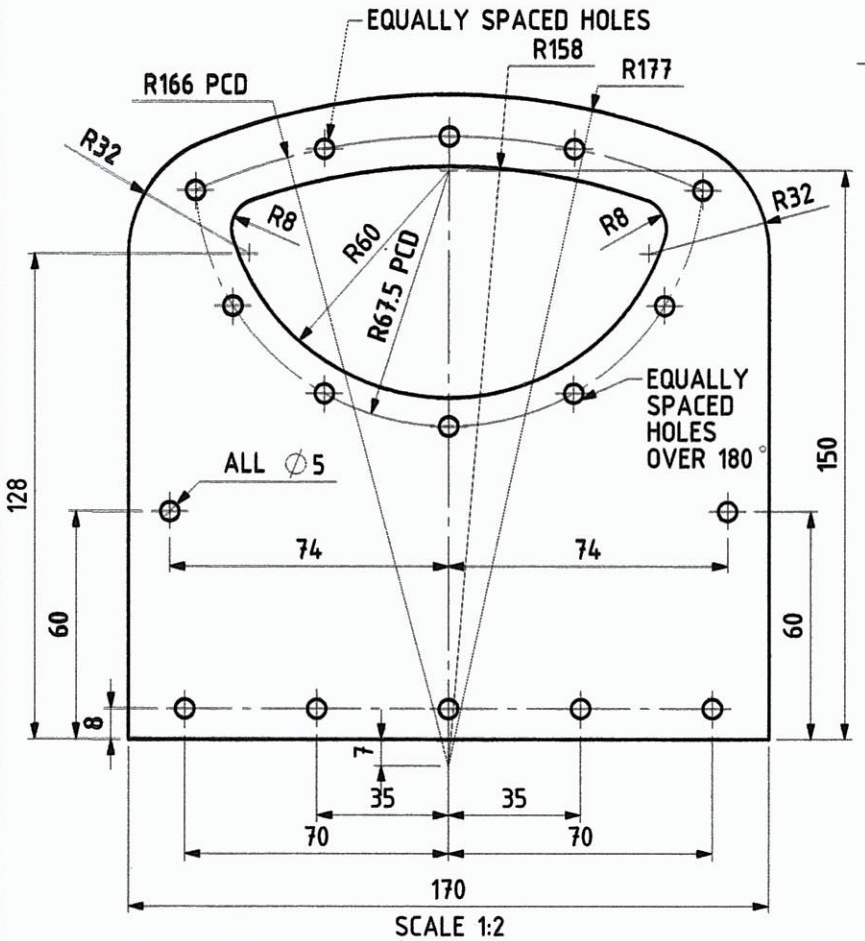






SCALE 1:2





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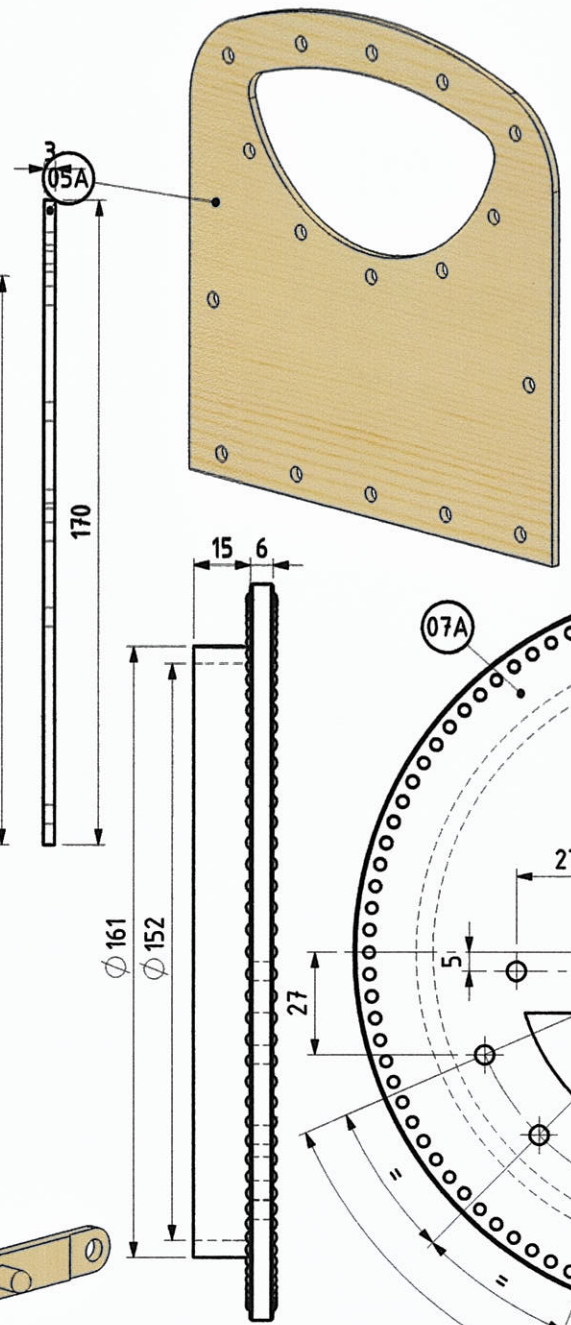
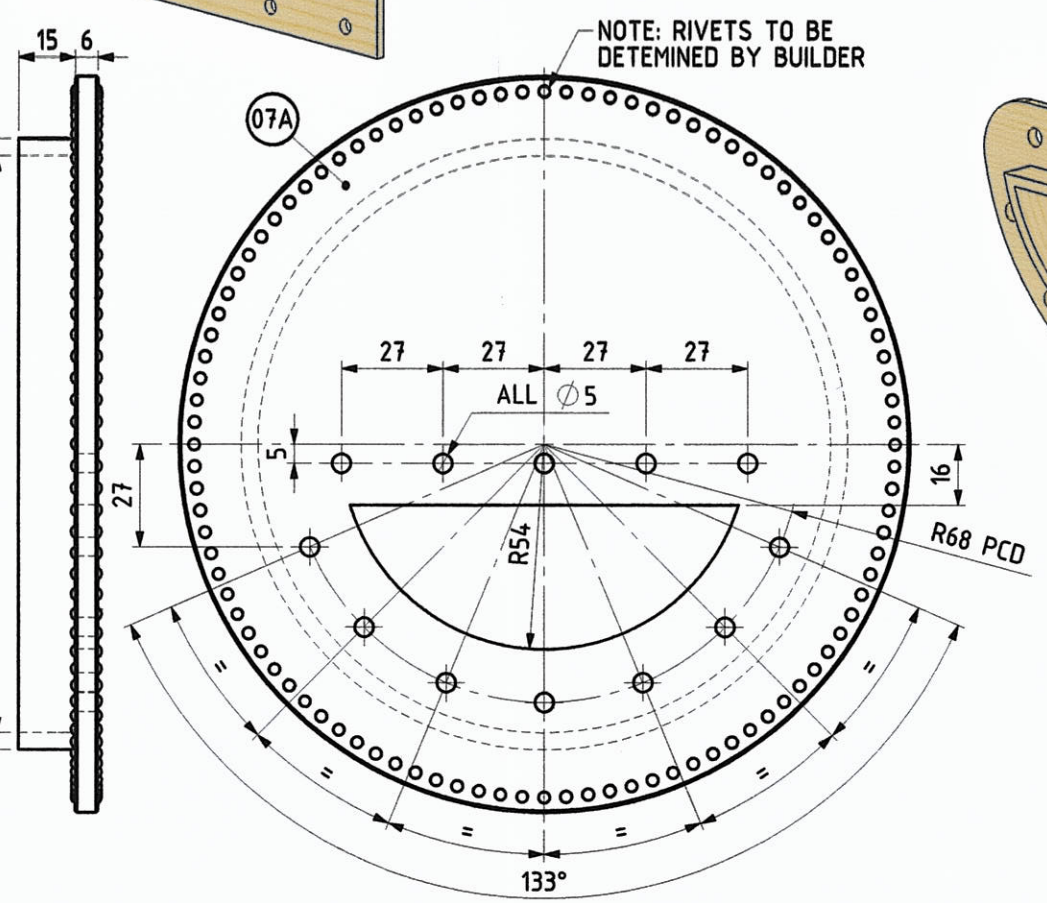
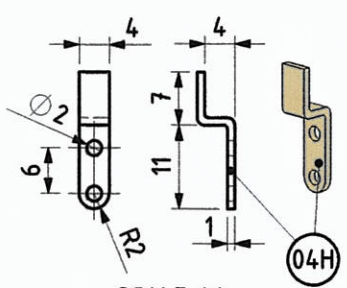




SCALE 1:2



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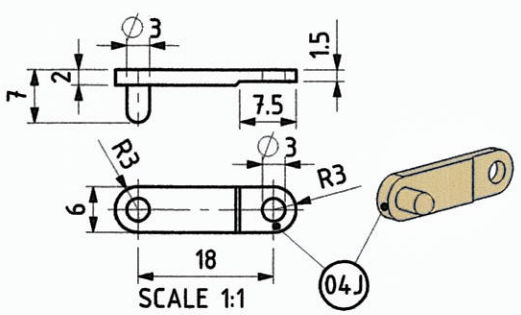

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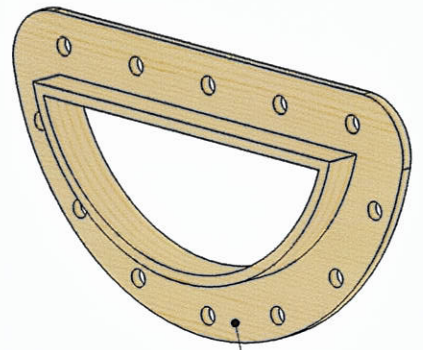
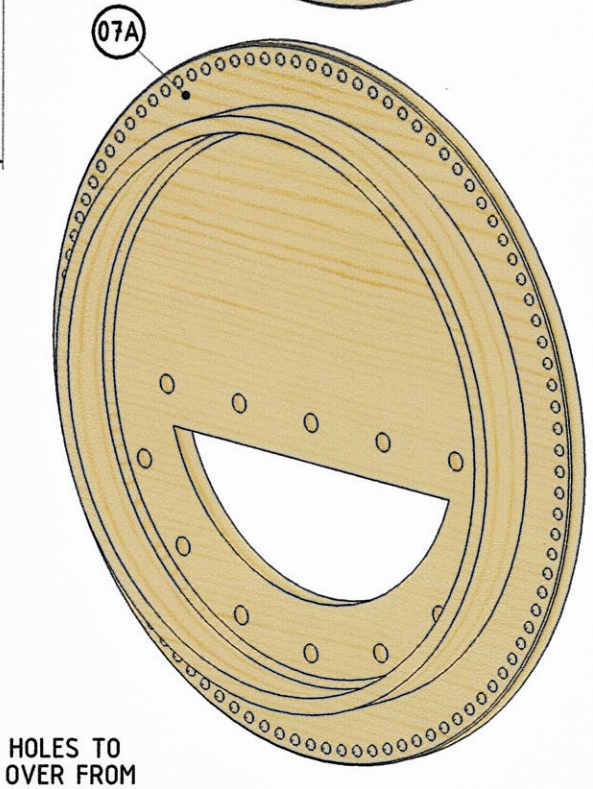
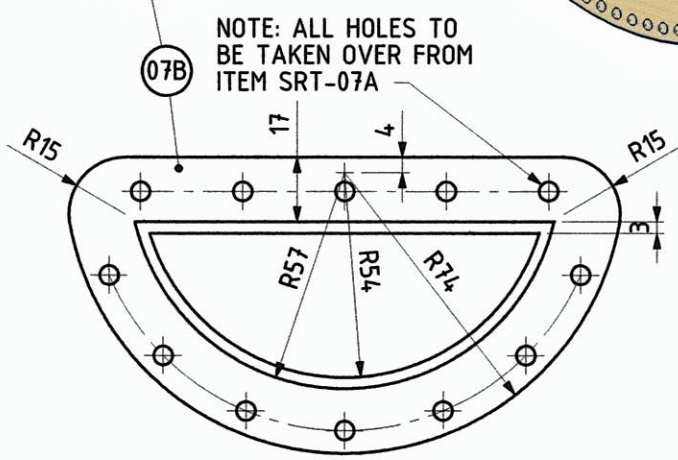
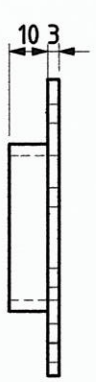






SCALE 1:2



A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 04 REV A
		REV DESCRIPTION DATE				

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°

SCALE 1:2

SCALE 1:2

SECTION B-B
SCALE 1 : 2

SCALE 1:2

SCALE 1:1

SECTION D-D

SCALE 1:1

SCALE 1:2

SECTION E-E
SCALE 1 : 2

SCALE 1:2

SECTION A-A
SCALE 1 : 2

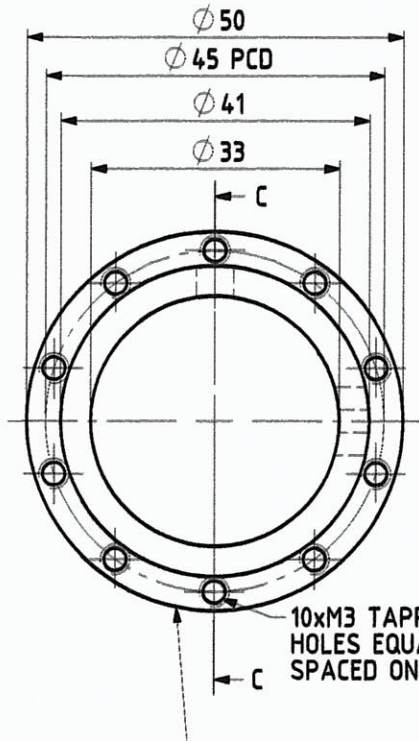
NOTE: ITEM SRT-13A IS AN EXACT MIRROR IMAGE OF ITEM SRT-12A

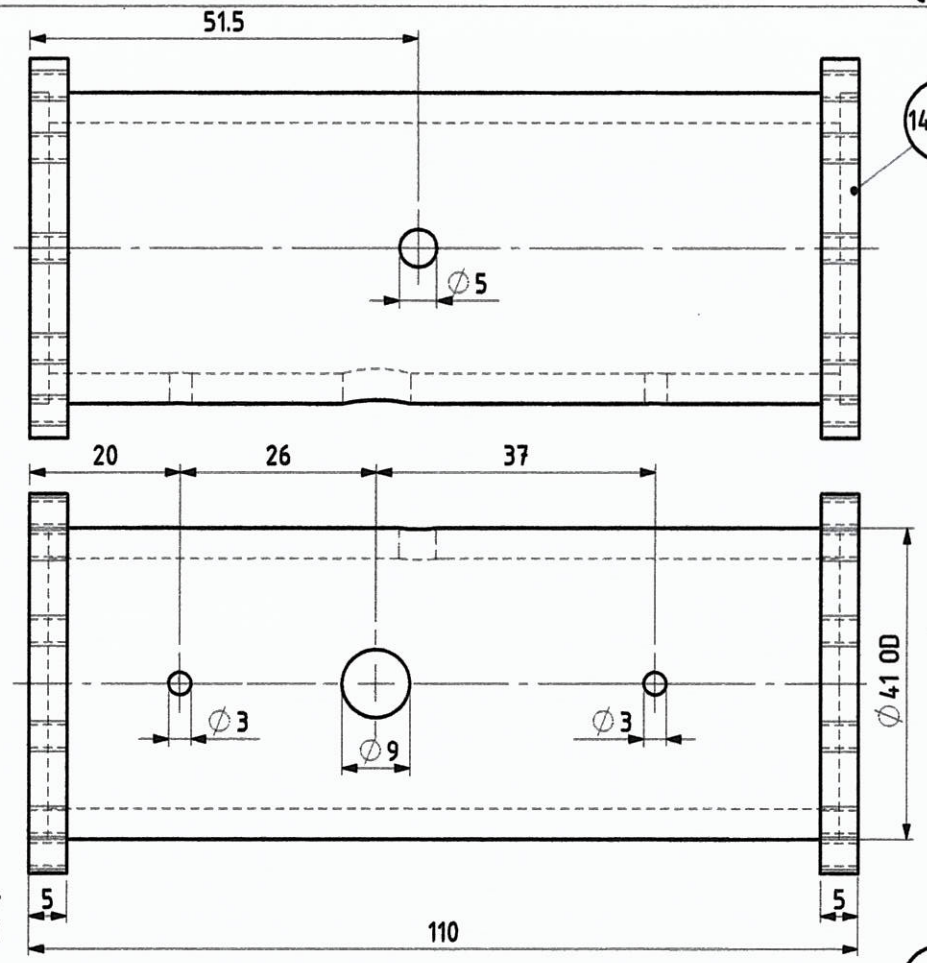
NOTE: ALL HOLES TO BE TAKEN OVER FROM ITEM SRT-14-15C

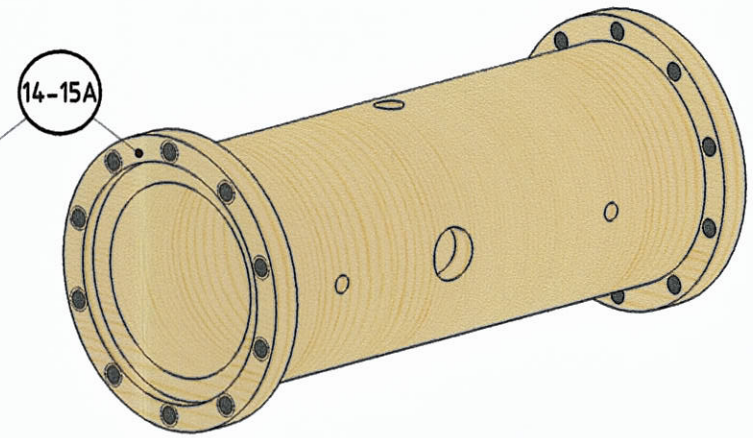
SCALE 1:1

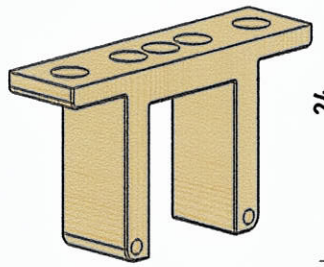
SECTION F-F

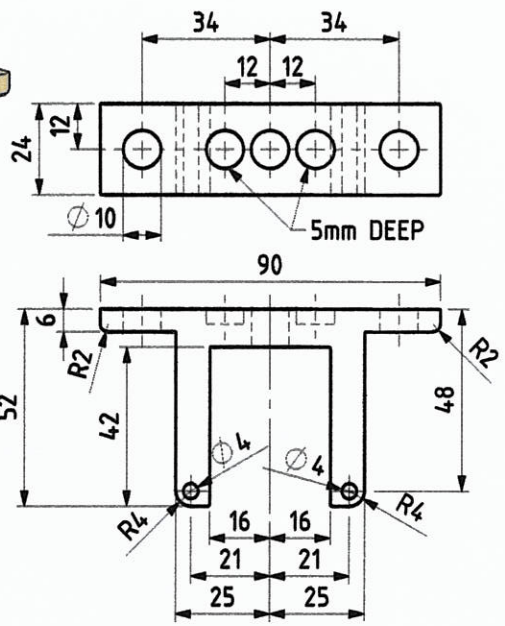
A3	TITLE: 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY: J.A.M. DE WAAL DATE: FEB-2008	PROJECTION SCALE: AS STATED	DRAWING NUMBER: 1829SRT SHEET: 05 REV: A
		A ISSUED FOR CONSTRUCTION				
		REV DESCRIPTION	DATE			

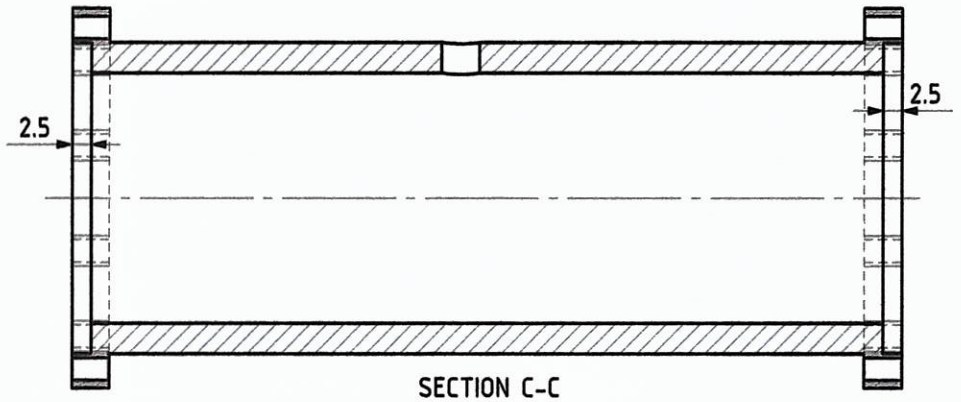




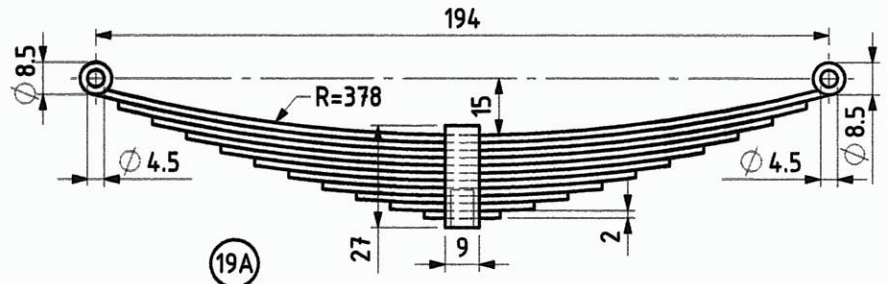


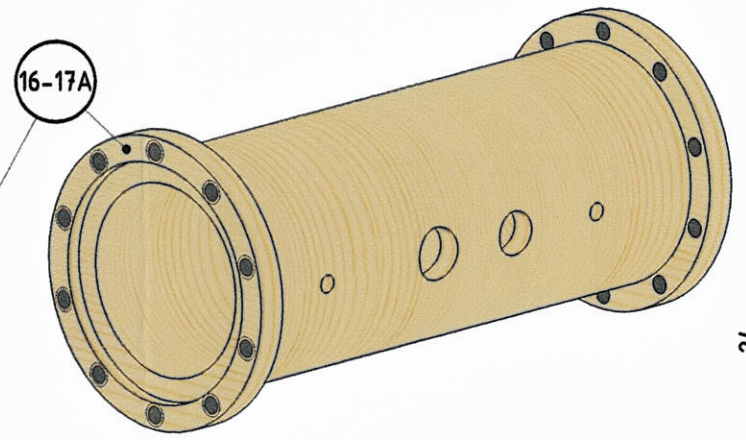


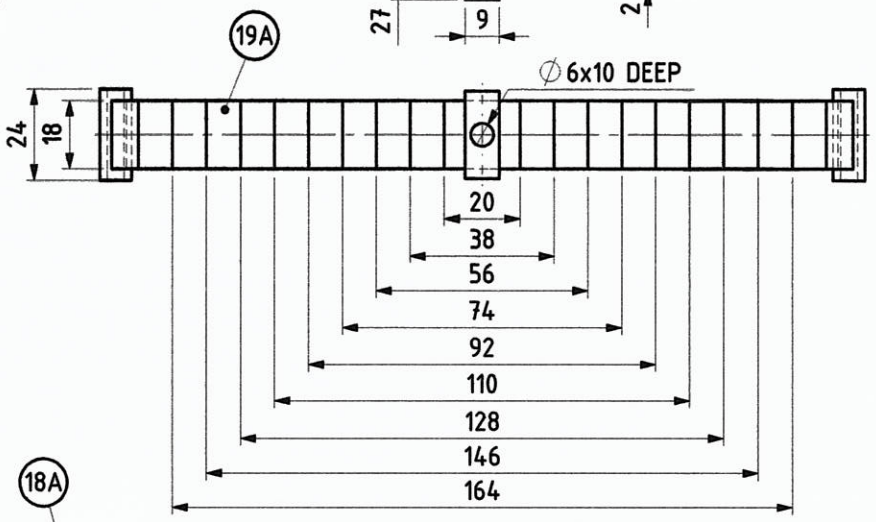


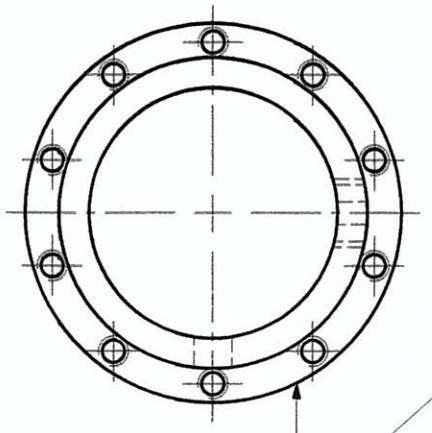


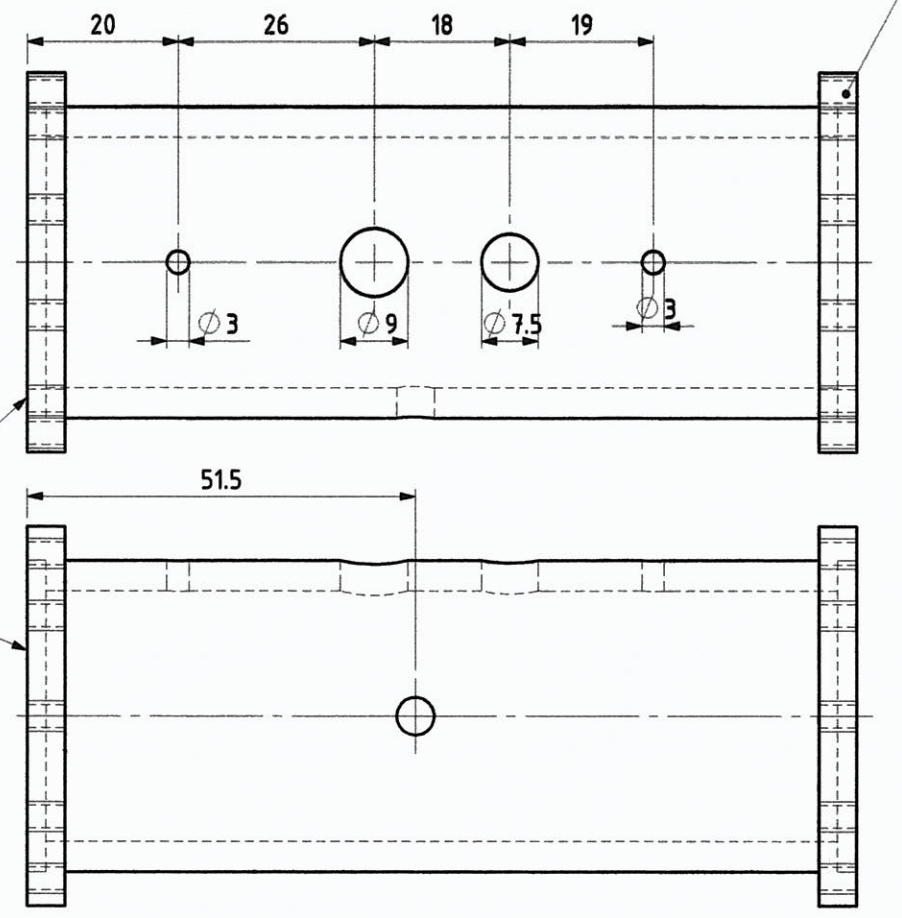
SECTION C-C



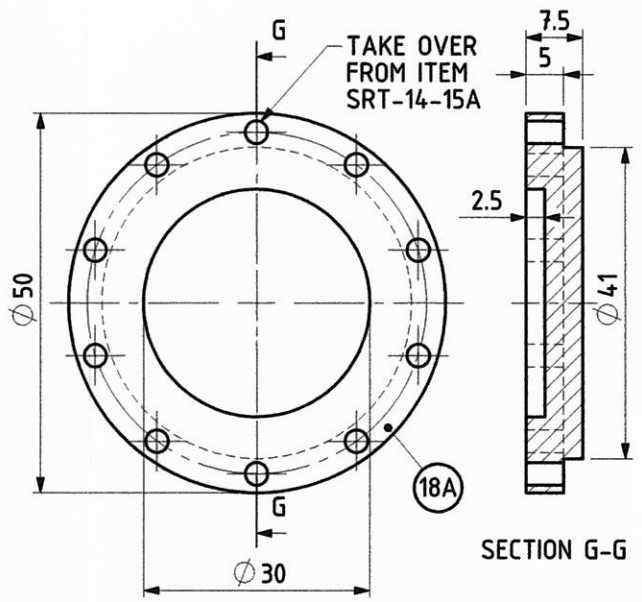




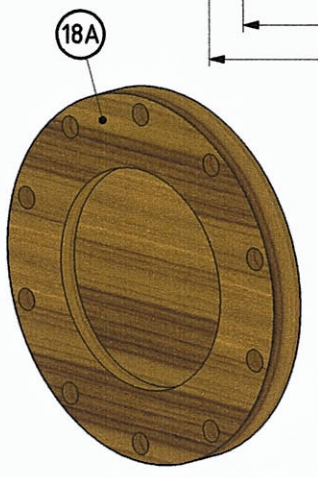


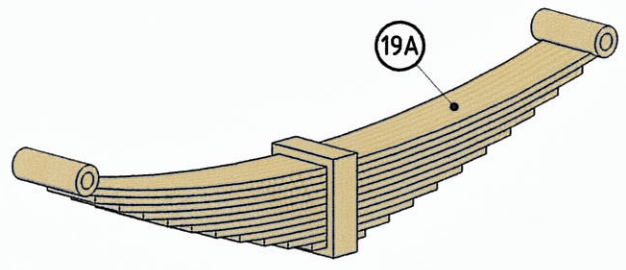


ALL OTHER DIMENSION AS PER ITEM SRT-14-15A



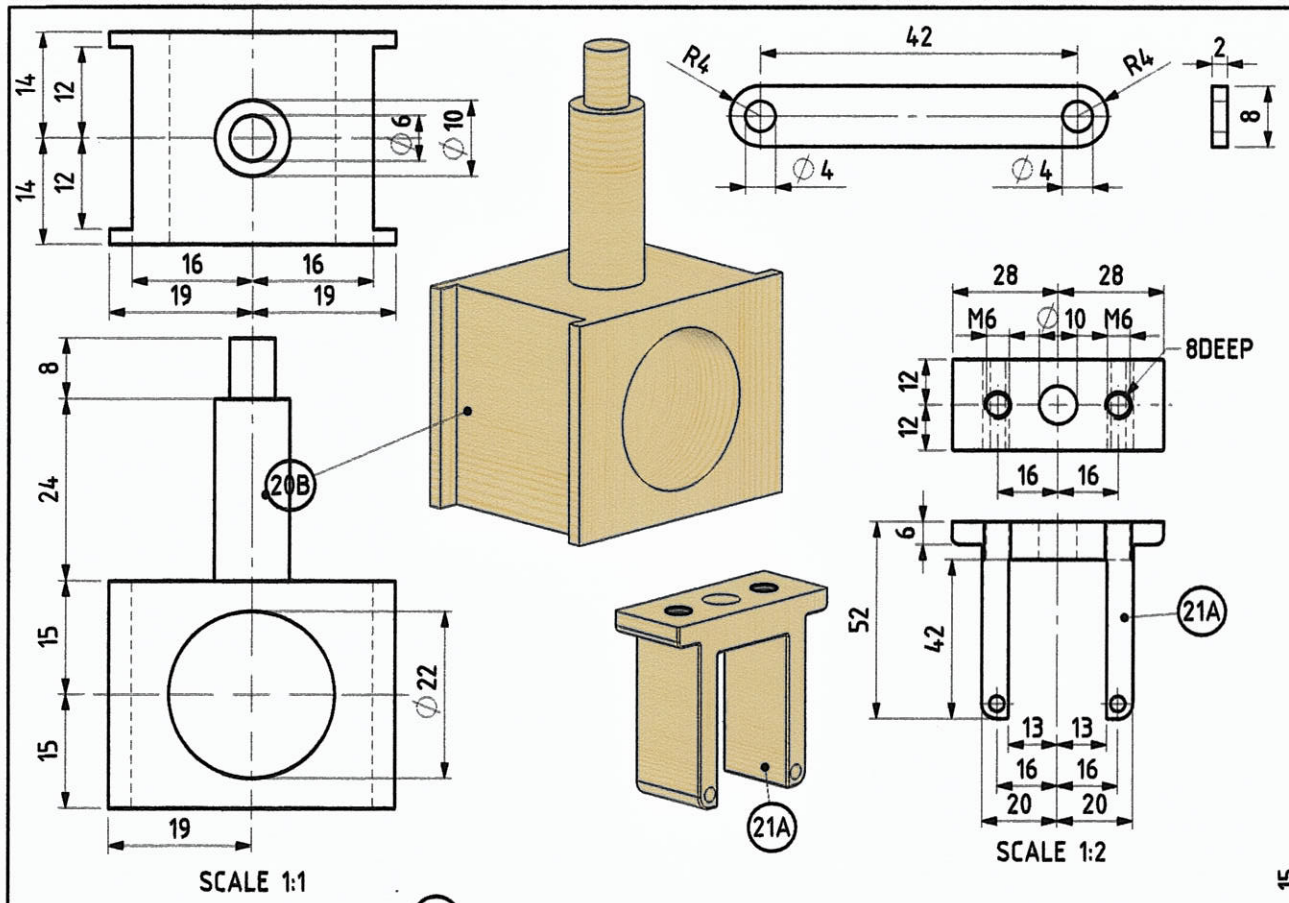
SECTION G-G

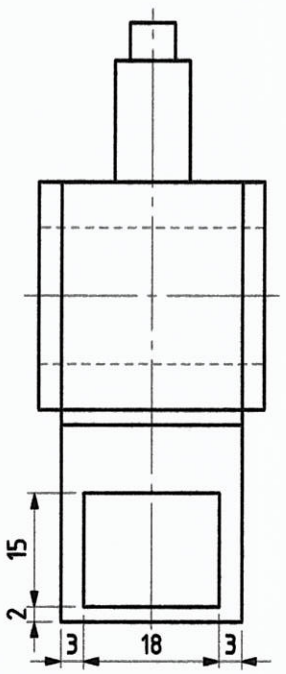


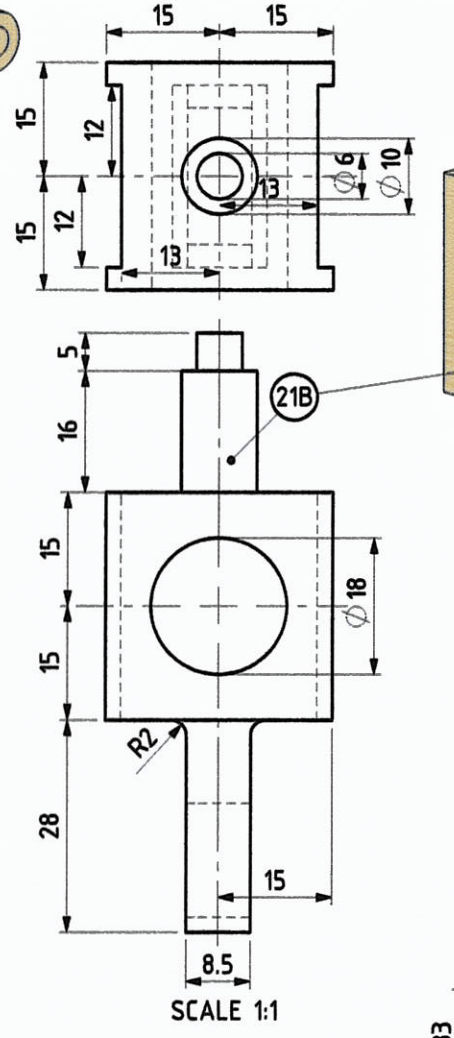


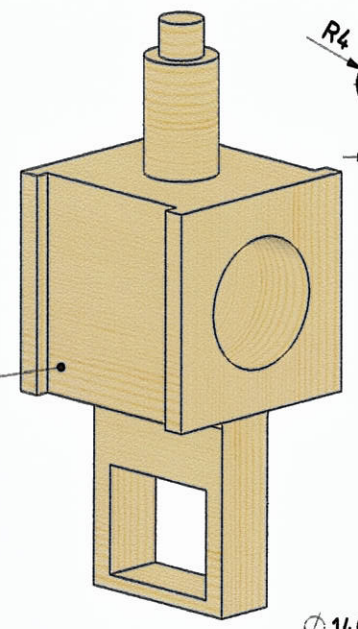
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008	PROJECTION SCALE AS STATED
		A ISSUED FOR CONSTRUCTION REV DESCRIPTION DATE			DRAWING NUMBER 1829SRT SHEET 06 REV A

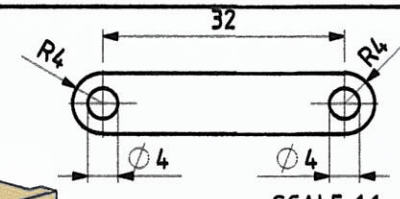
IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°

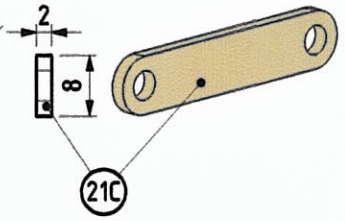


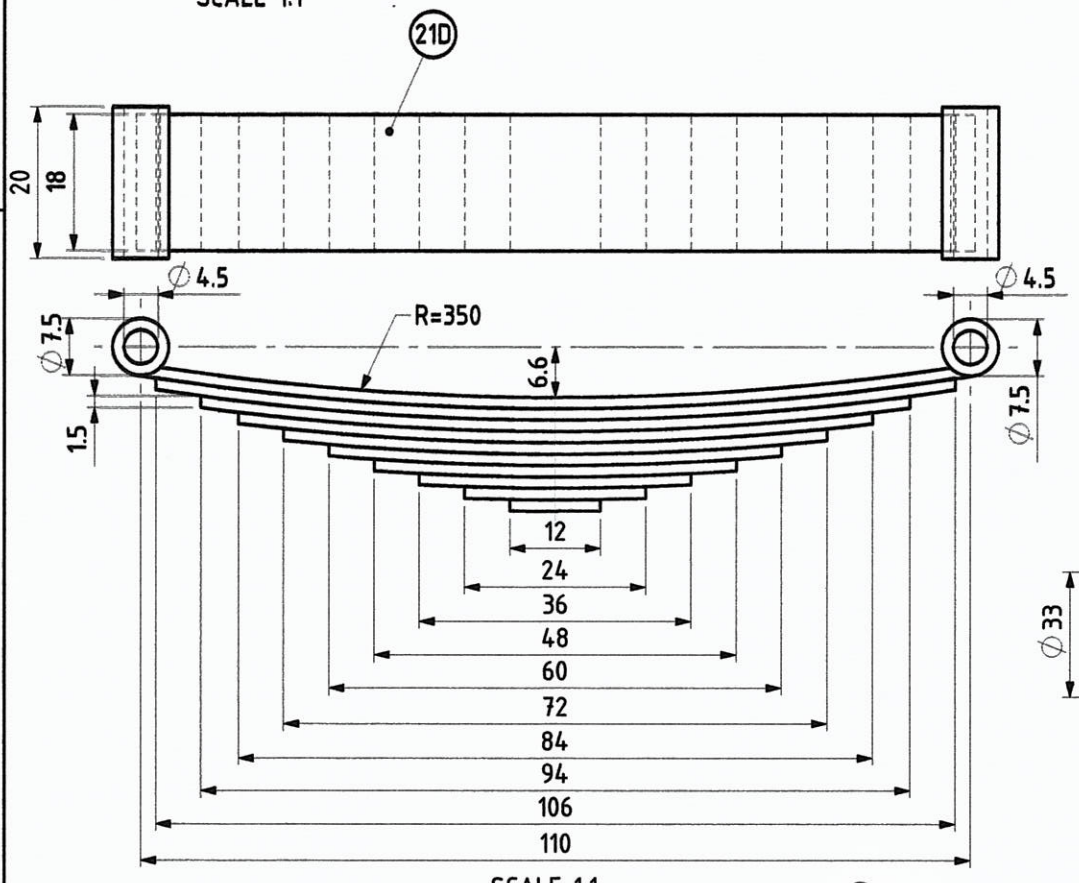


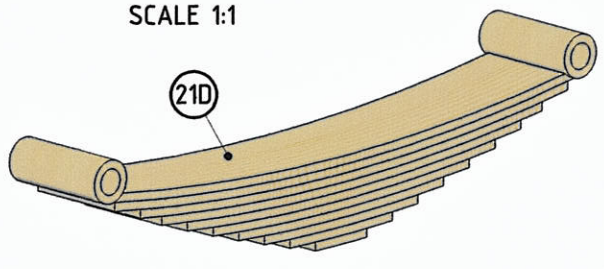


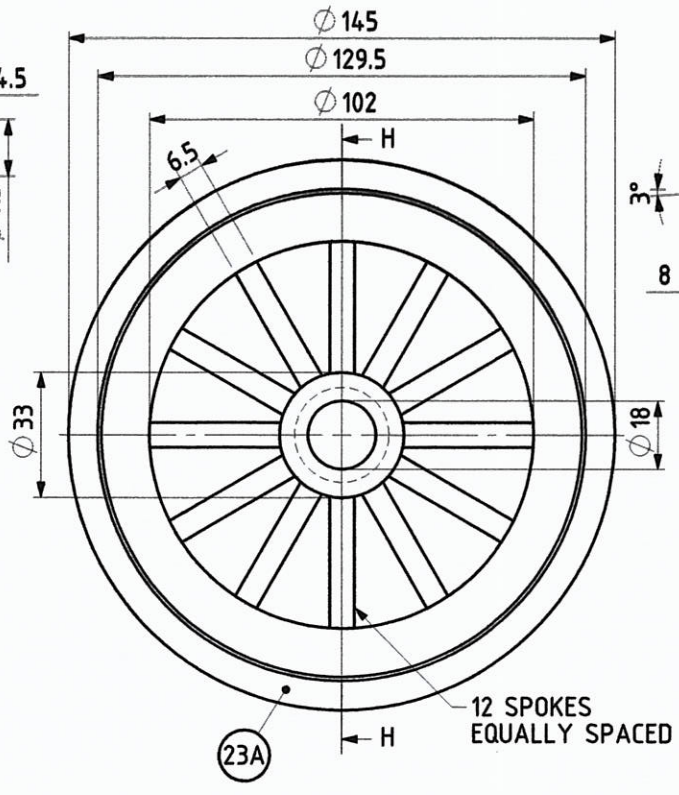


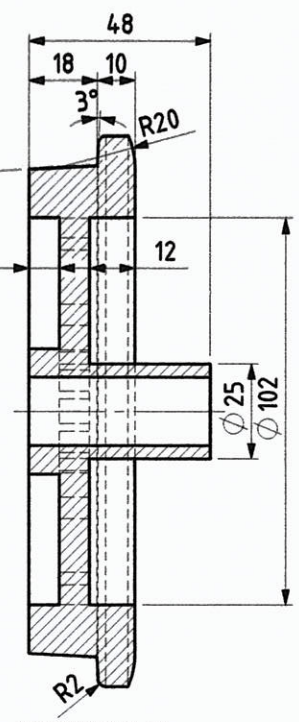


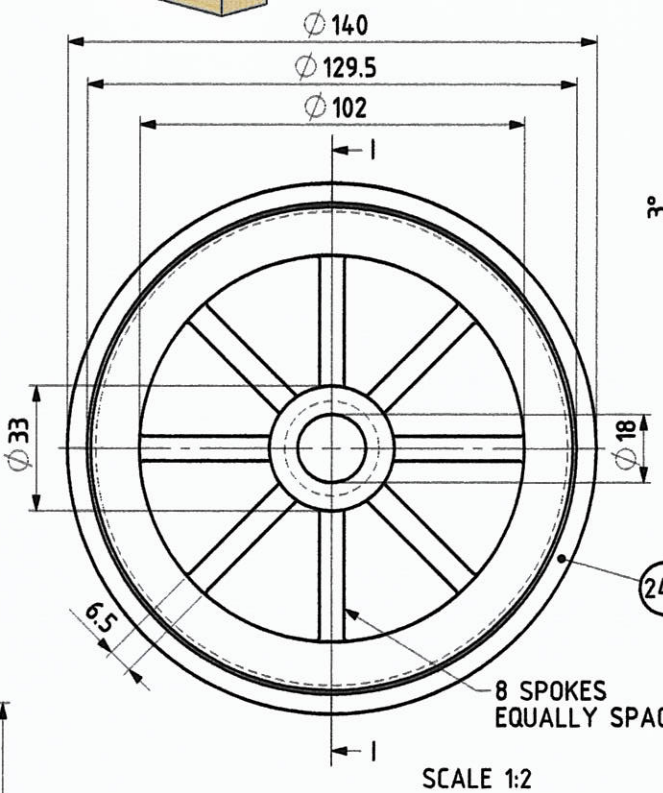


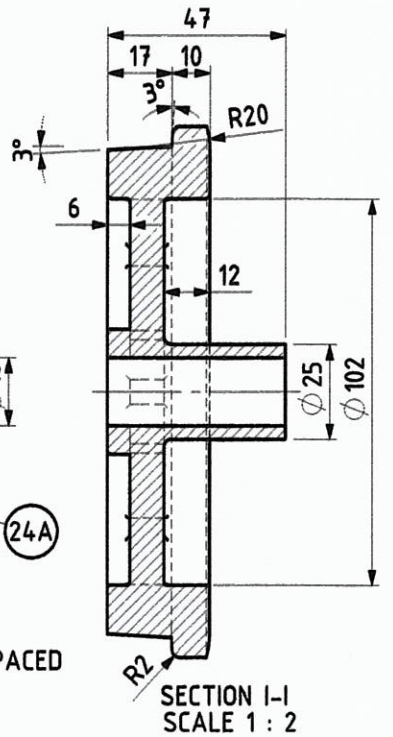


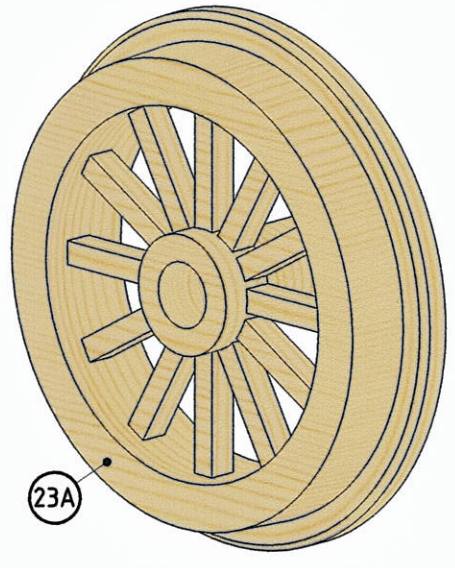


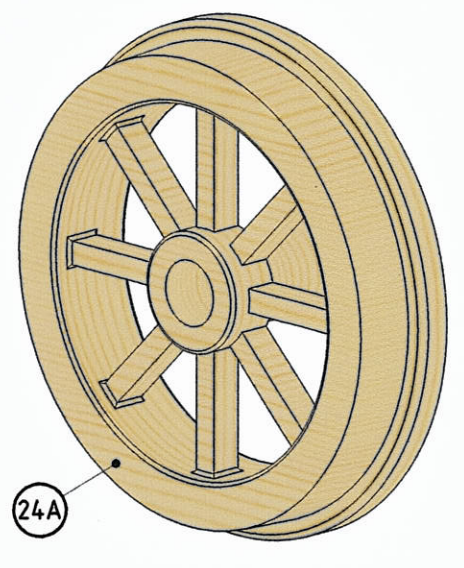






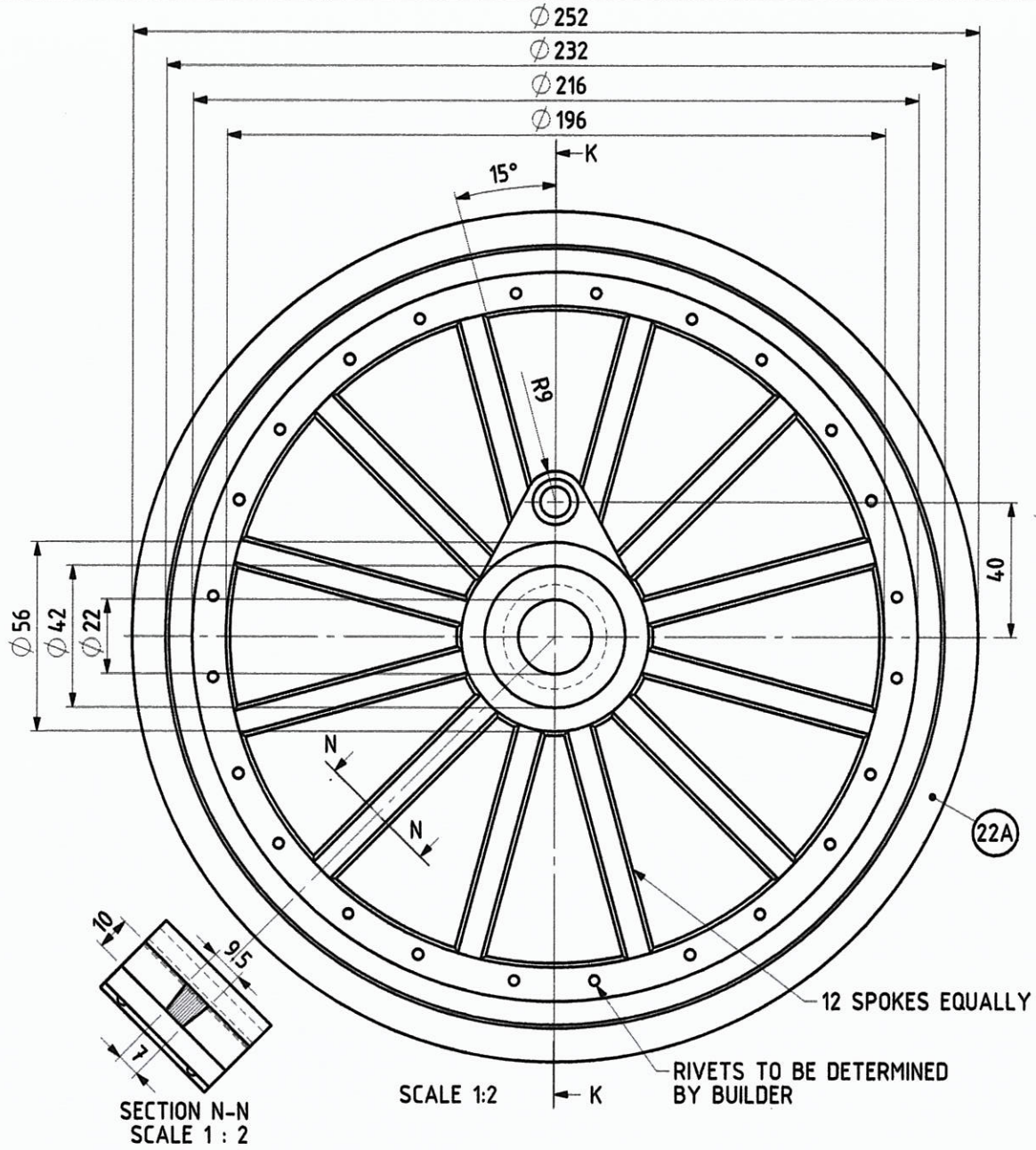


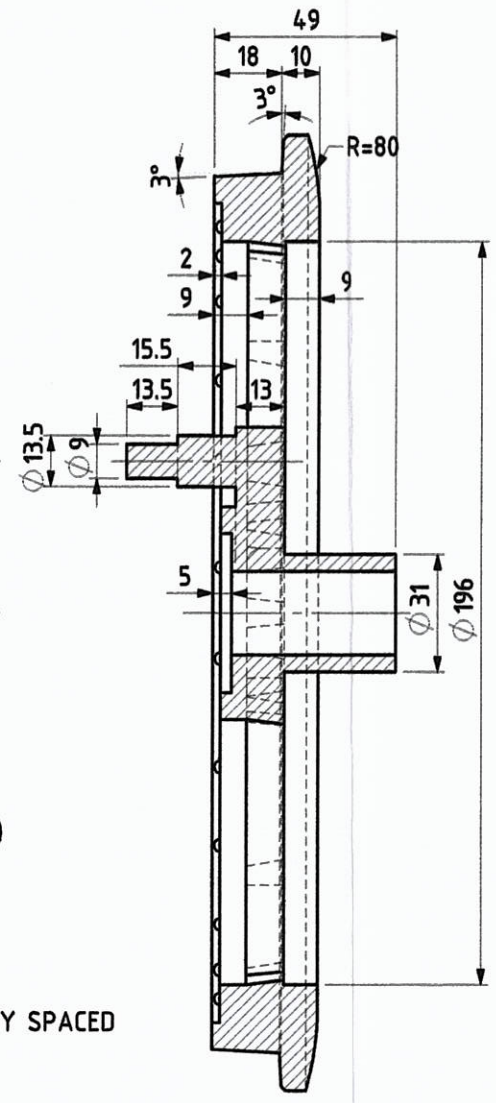


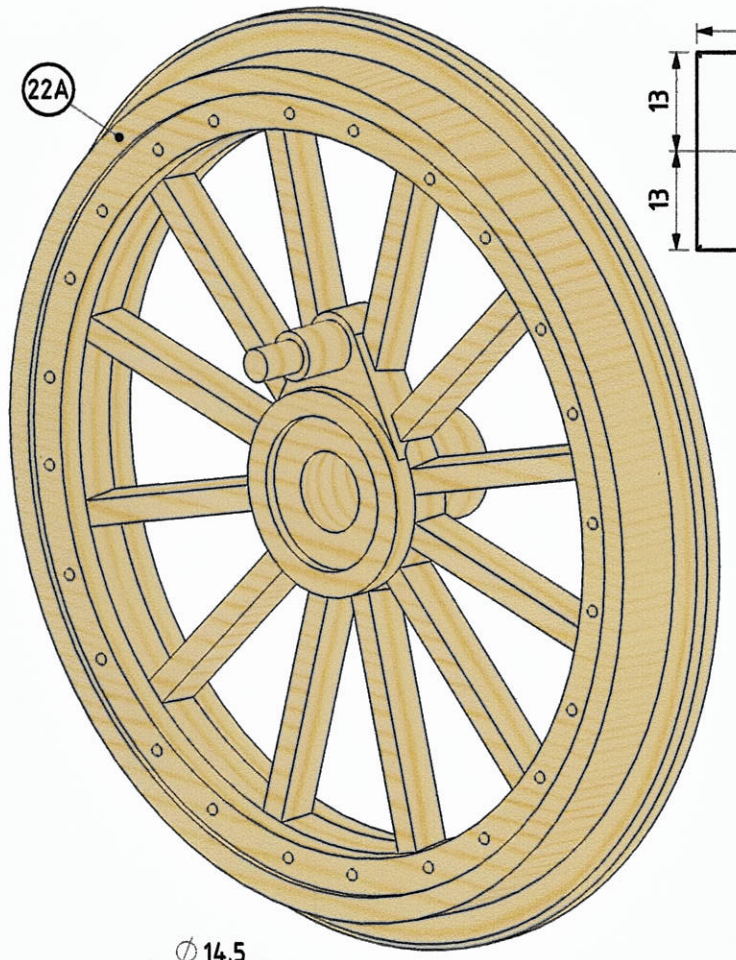


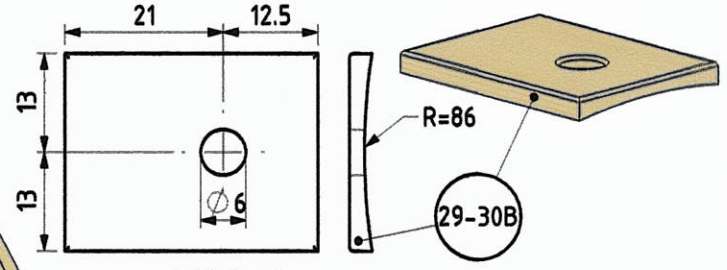
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS	REV	DESCRIPTION	DATE	JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008 PROJECTION SCALE AS STATED DRAWING NUMBER 1829SRT SHEET 07 REV A
		A	ISSUED FOR CONSTRUCTION			

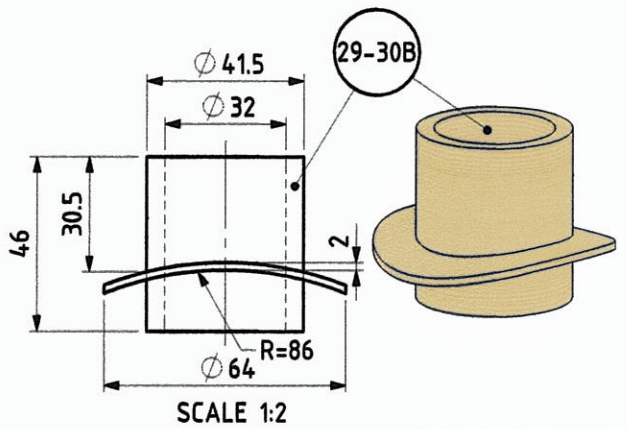
IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°

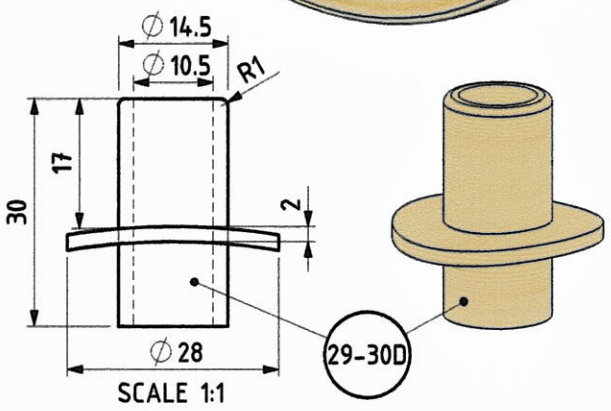


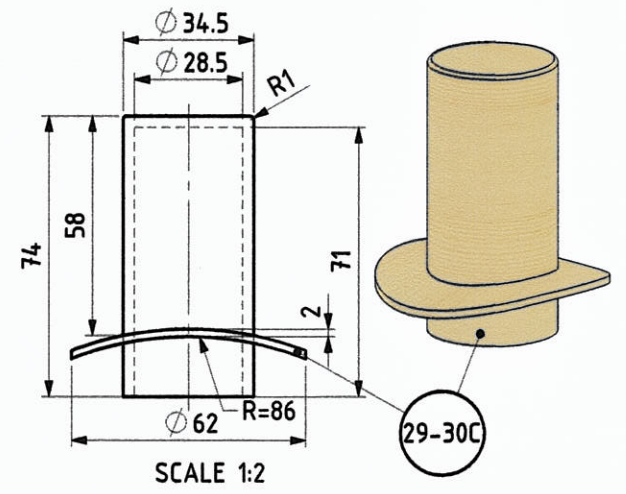


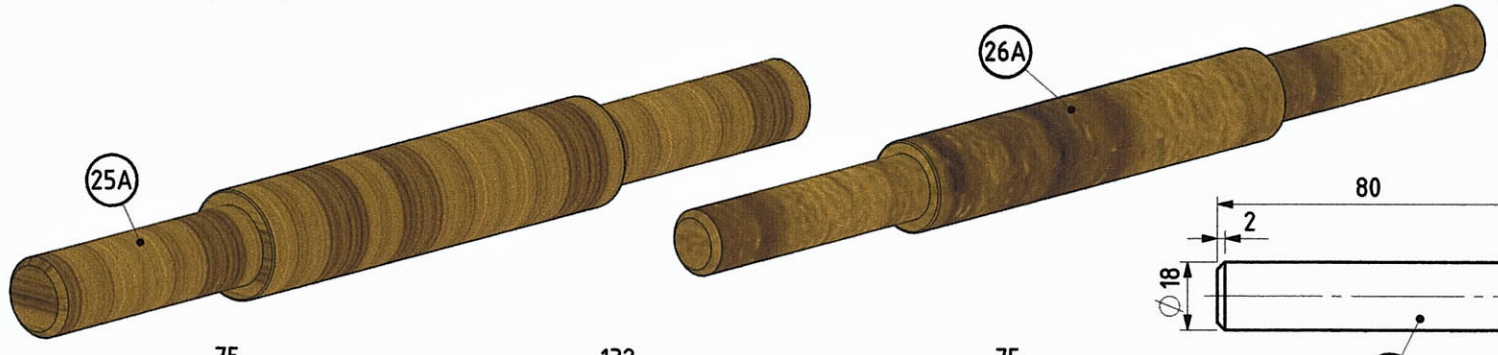


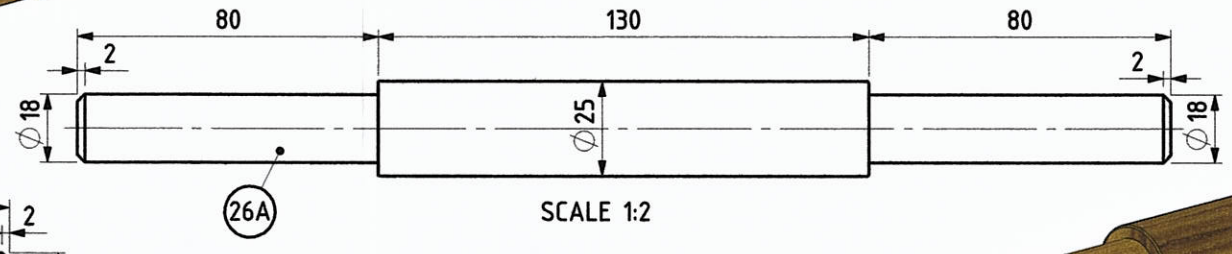


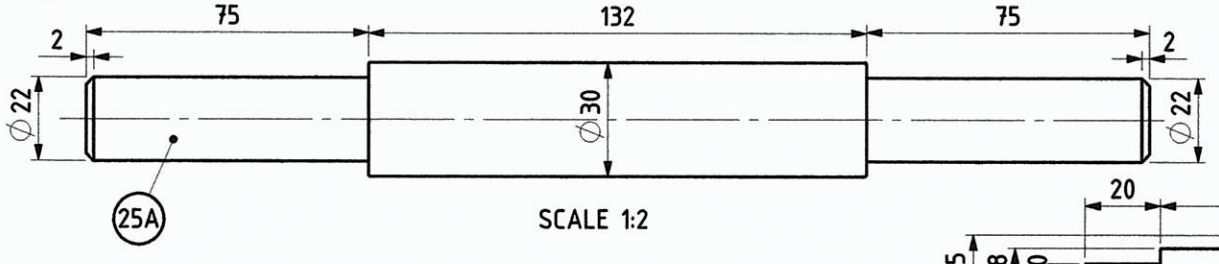


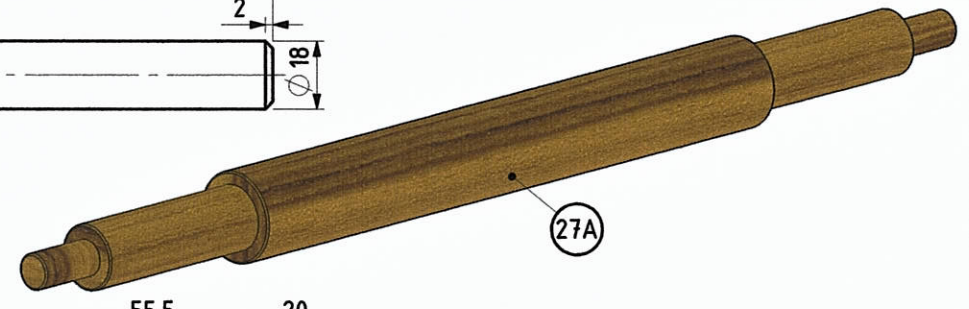


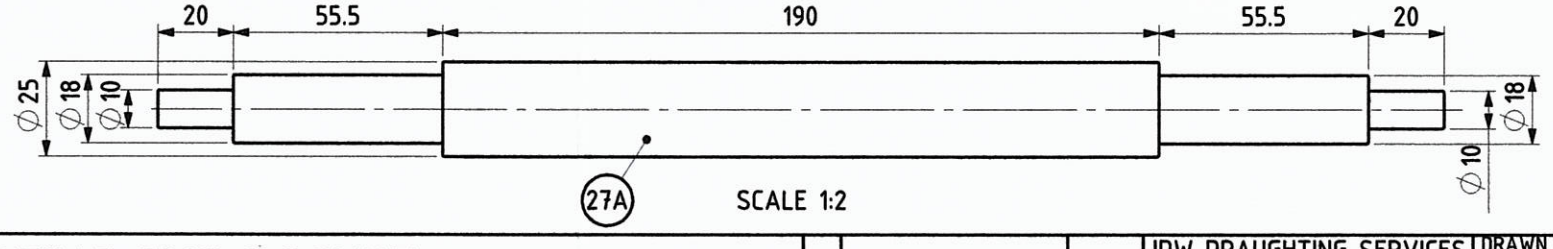






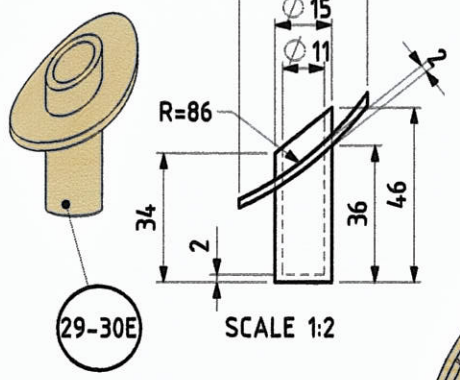




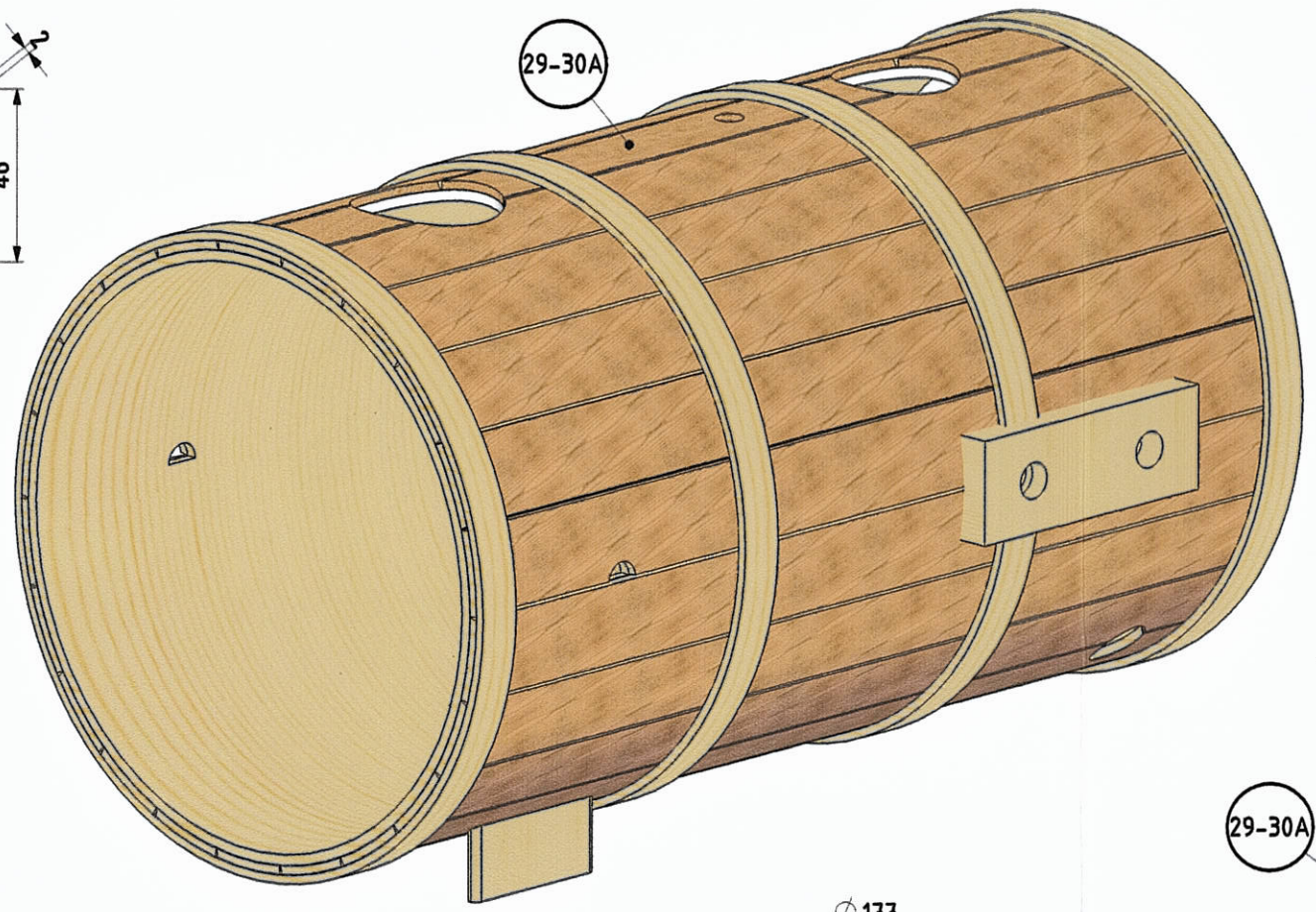


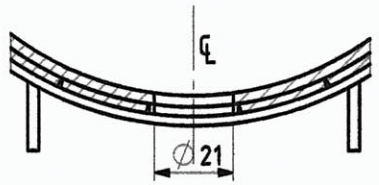
A3	TITLE: 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY: J.A.M. DE WAAL DATE: FEB-2008	PROJECTION SCALE: AS STATED
		REV A: ISSUED FOR CONSTRUCTION			DRAWING NUMBER: 1829SRT SHEET: 08 REV: A

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°

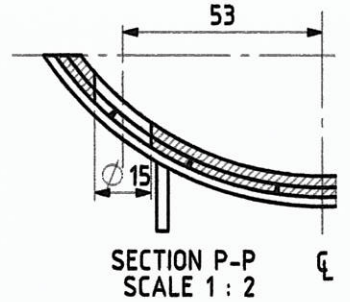


SCALE 1:2

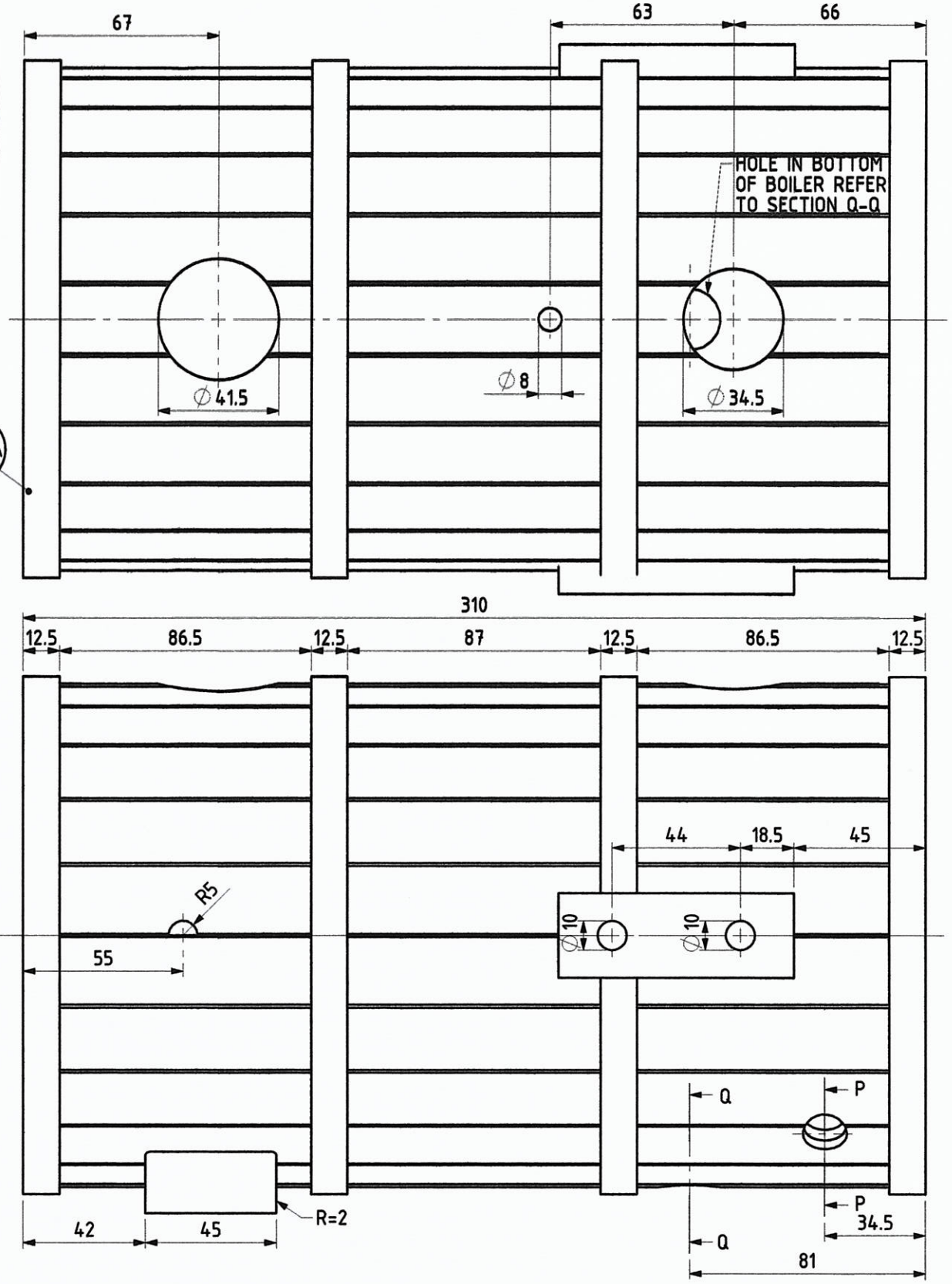


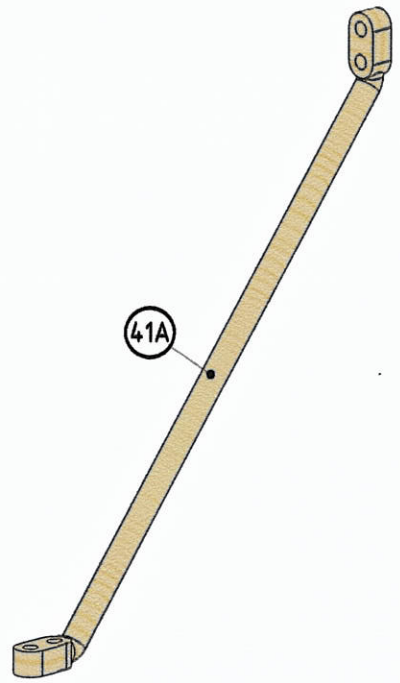


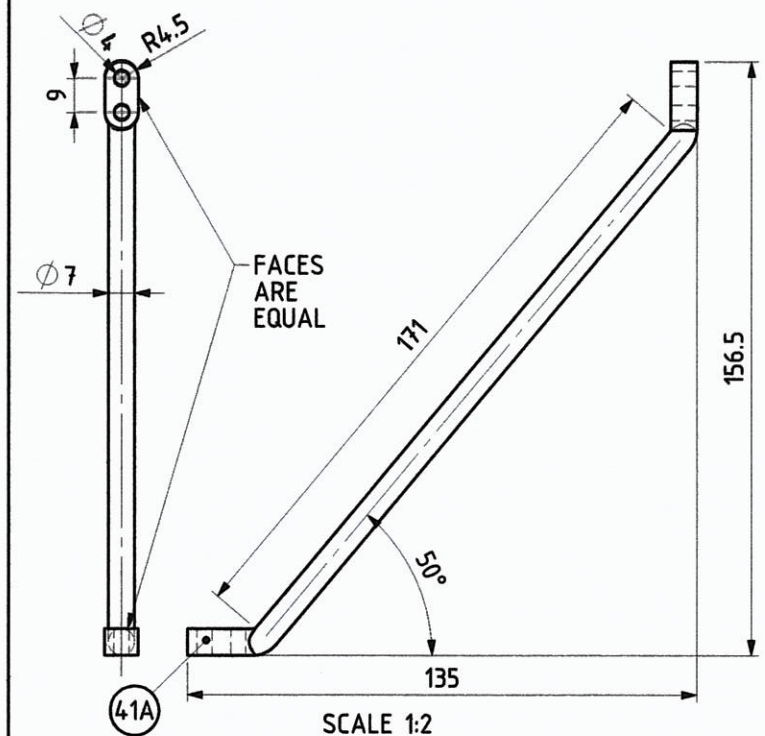
SECTION Q-Q
SCALE 1 : 2



SECTION P-P
SCALE 1 : 2







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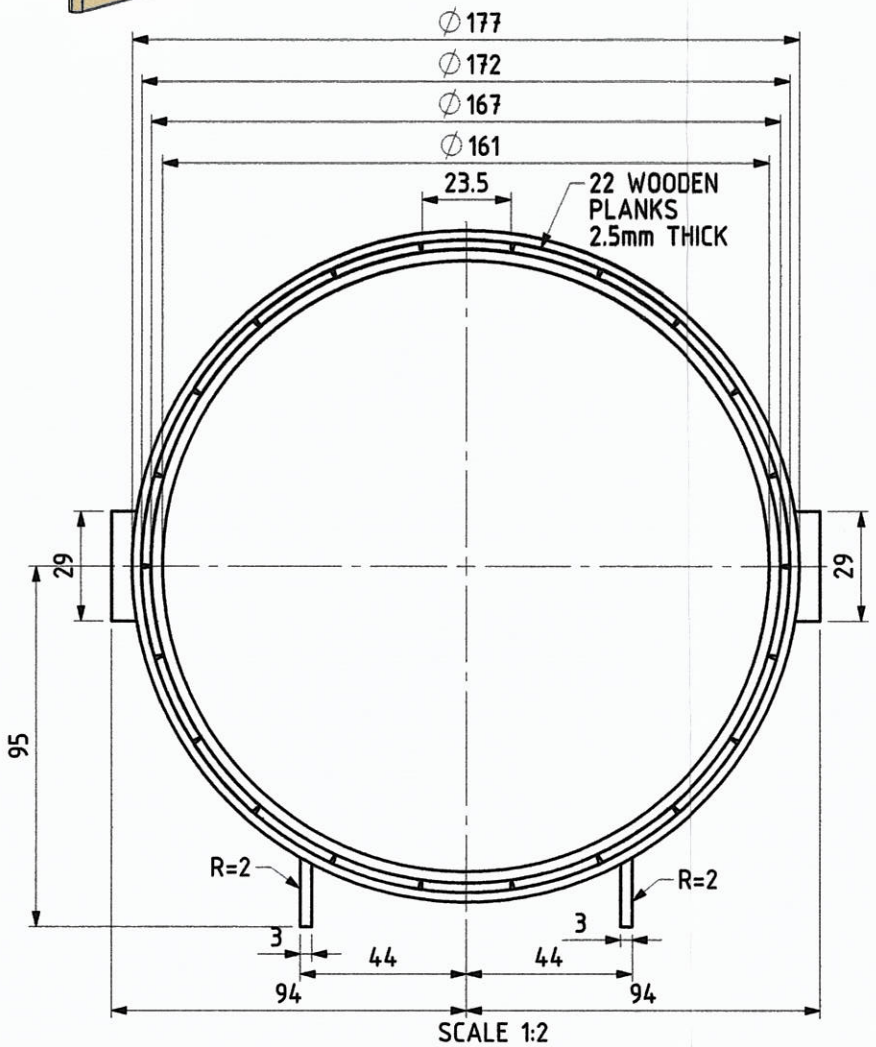


SCALE 1:2

A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A	ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 09 REV A
		REV	DESCRIPTION DATE				

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°

SCALE 1:2

SCALE 1:2

SCALE 1:2

SCALE 1:2

SCALE 1:2

SCALE 1:1

SCALE 1:1

SCALE 1:3

SCALE 1:1

SECTION A-A

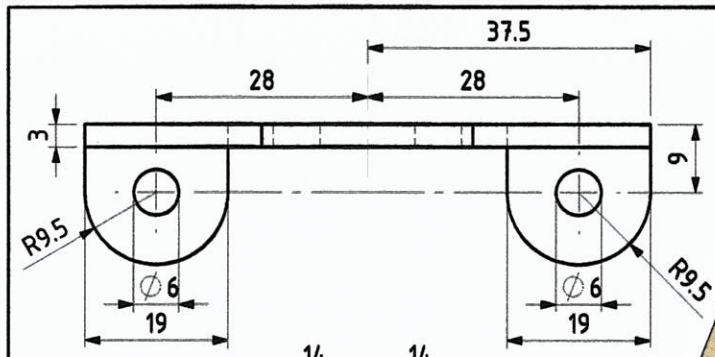
SCALE 1:1

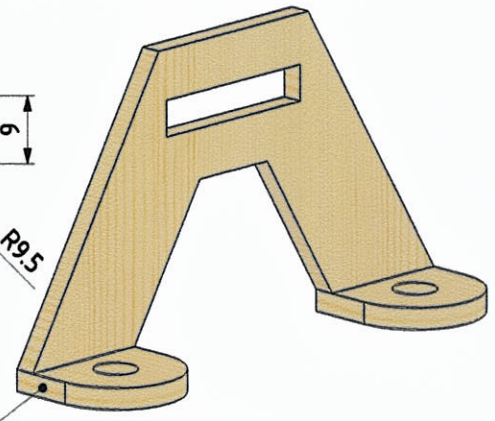
SCALE 1:2

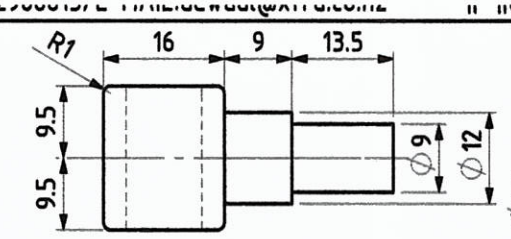
MIRROR IMAGE OF PART SRT-44A

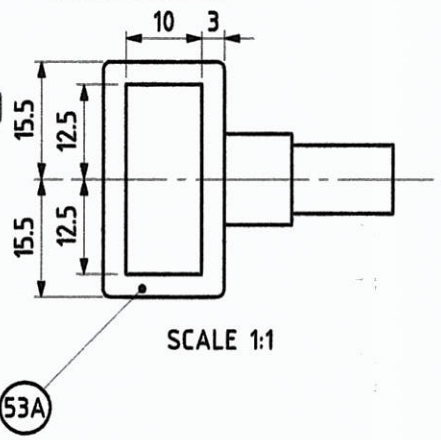
A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS				JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A	ISSUED FOR CONSTRUCTION			DATE FEB-2008	SCALE AS STATED	SHEET 10 REV A
		REV	DESCRIPTION	DATE				

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°









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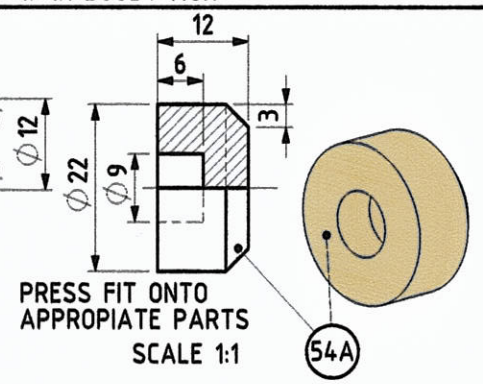
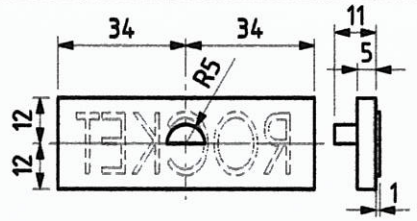
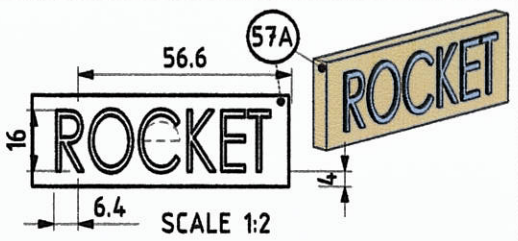


PRESS FIT ONTO APPROPIATE PARTS

SCALE 1:1





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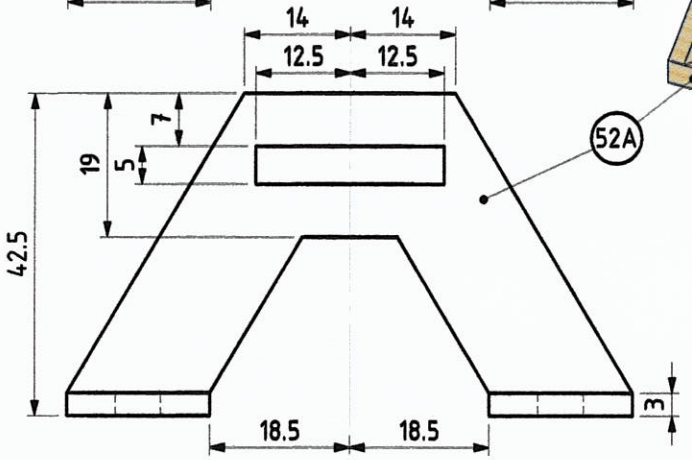

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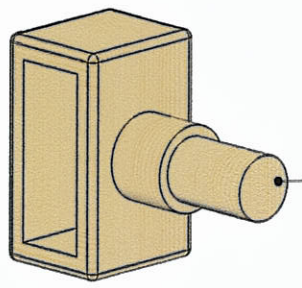

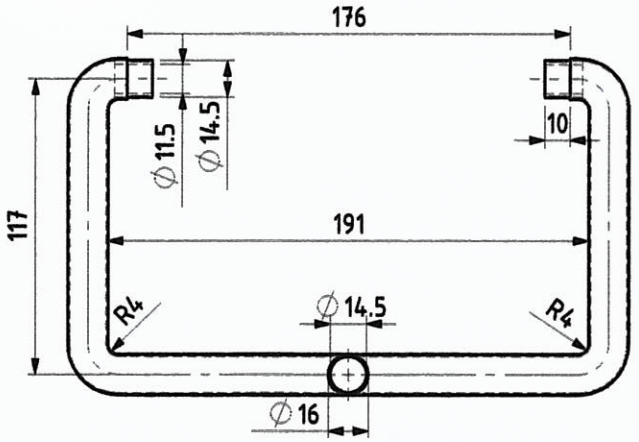

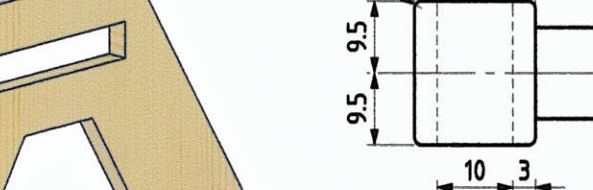

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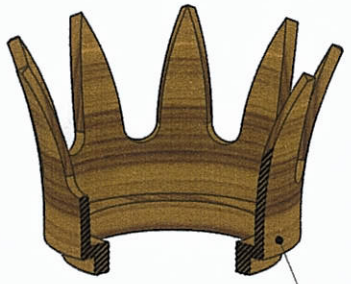
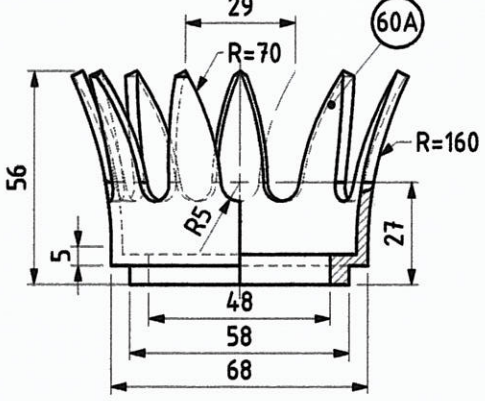
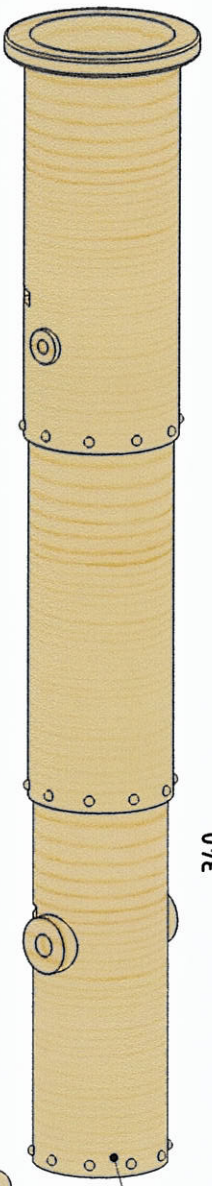
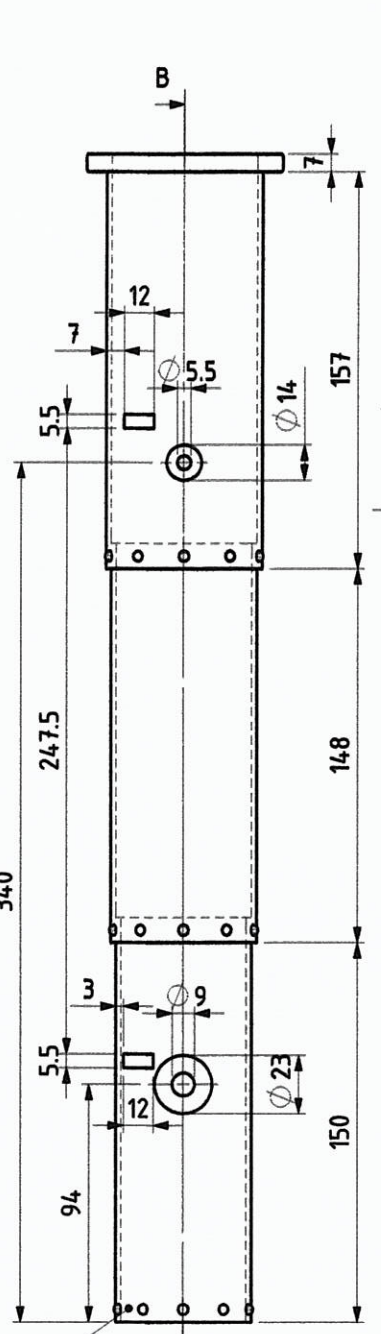
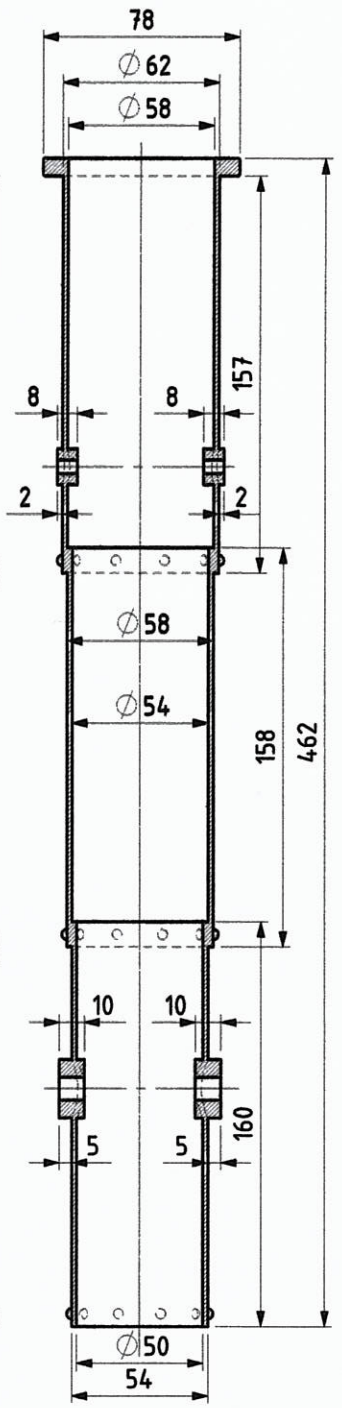




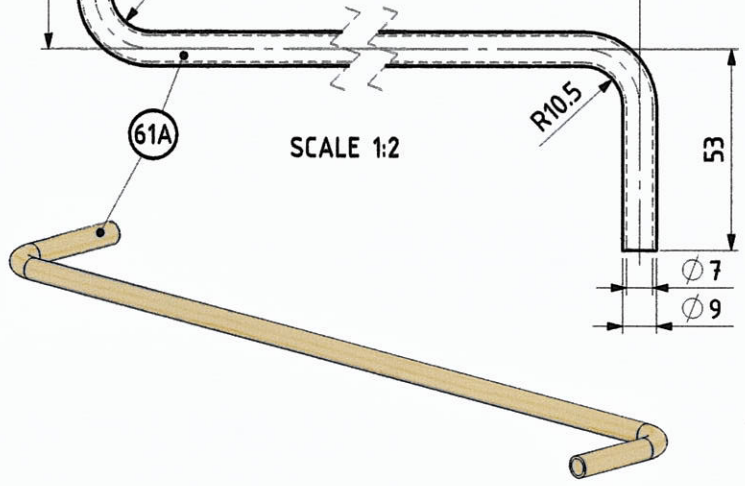




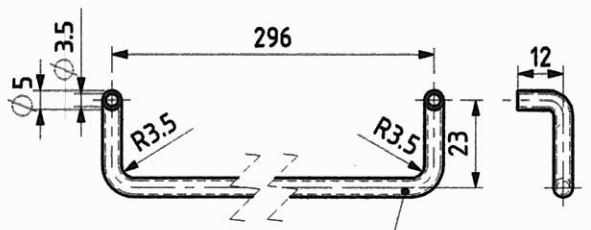
SCALE 1:3

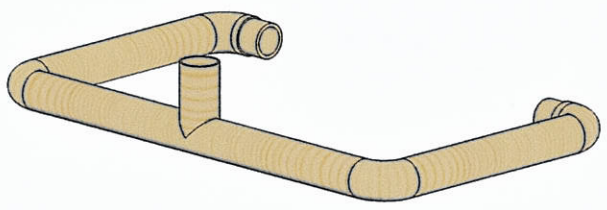


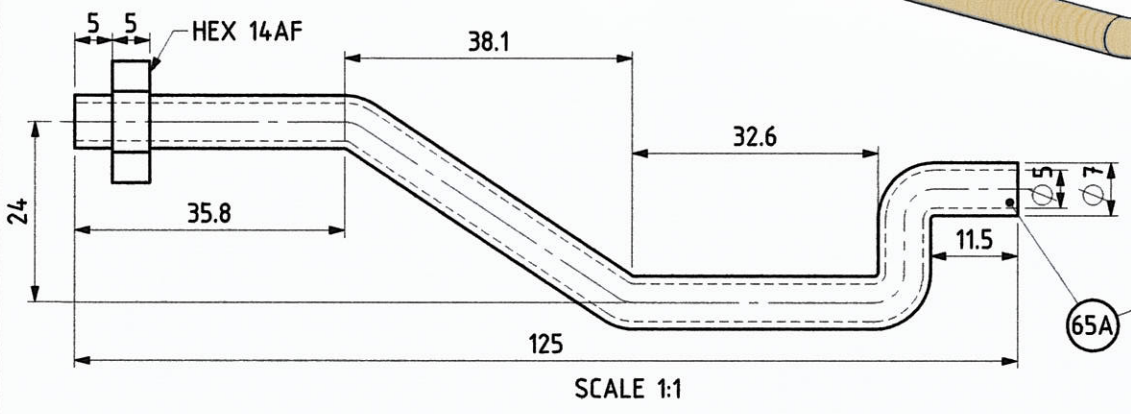
SECTION B-B
SCALE 1 : 3



SCALE 1:2







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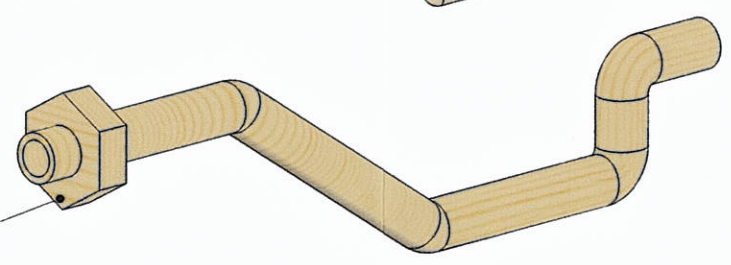
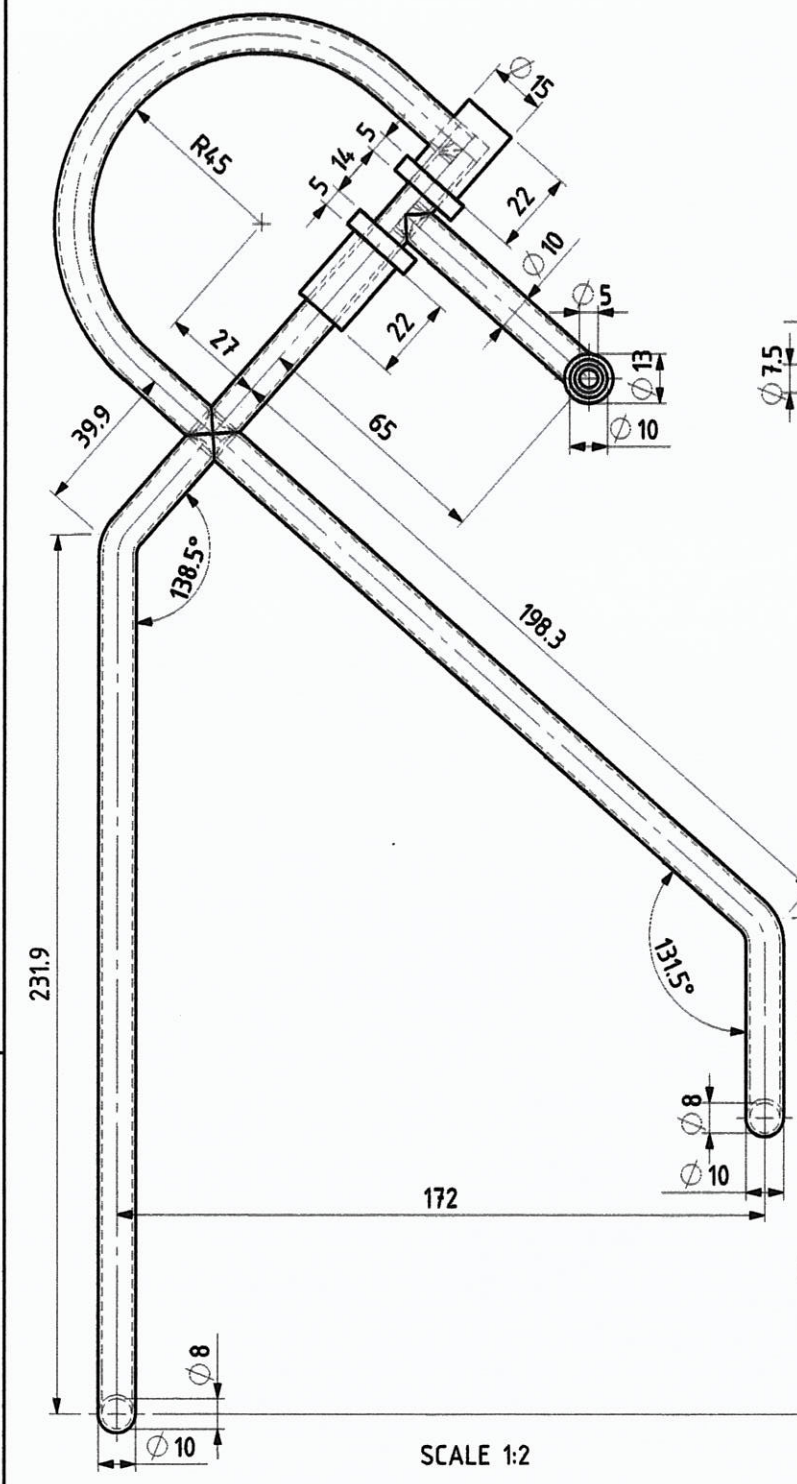


A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008	PROJECTION SCALE AS STATED
		REV A ISSUED FOR CONSTRUCTION DATE			DRAWING NUMBER 1829SRT SHEET 11 REV A

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°



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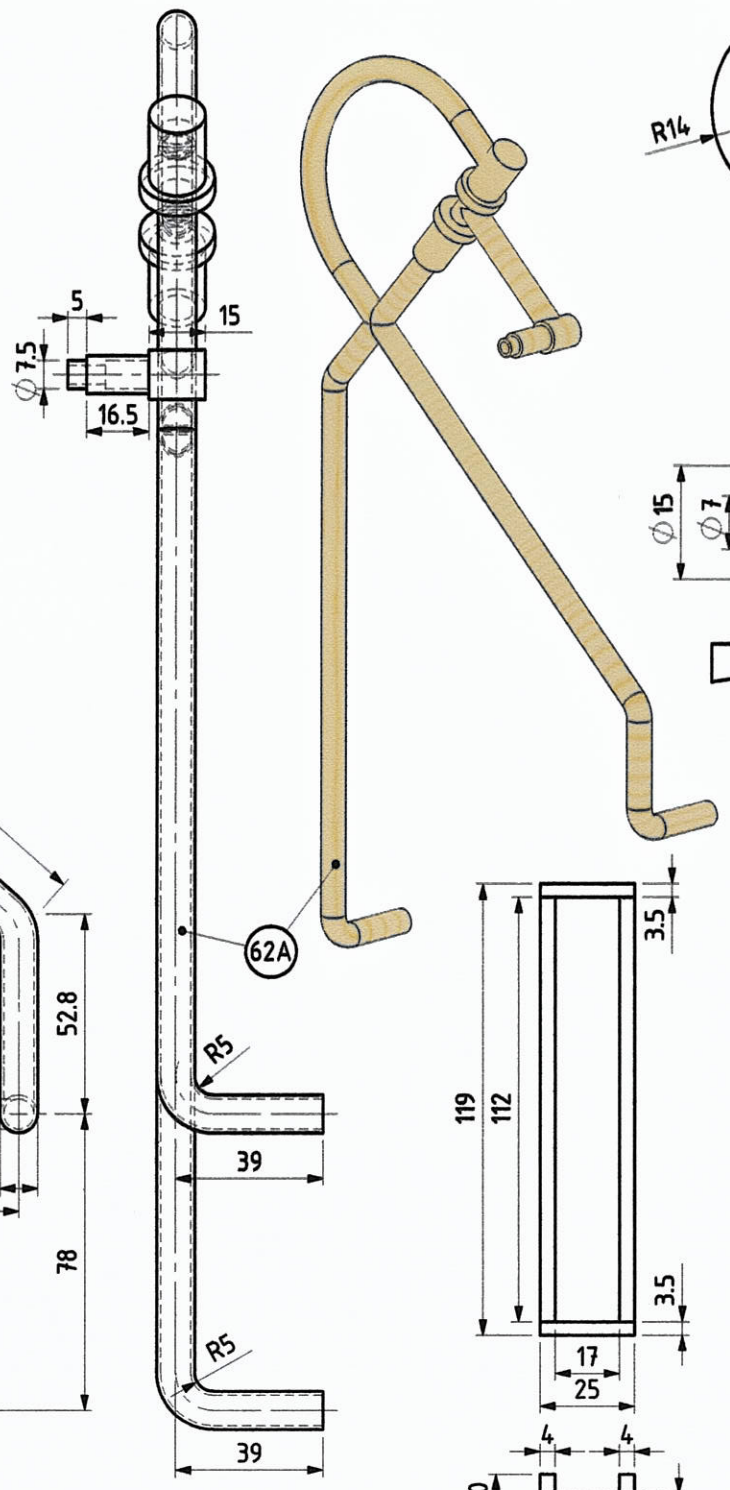

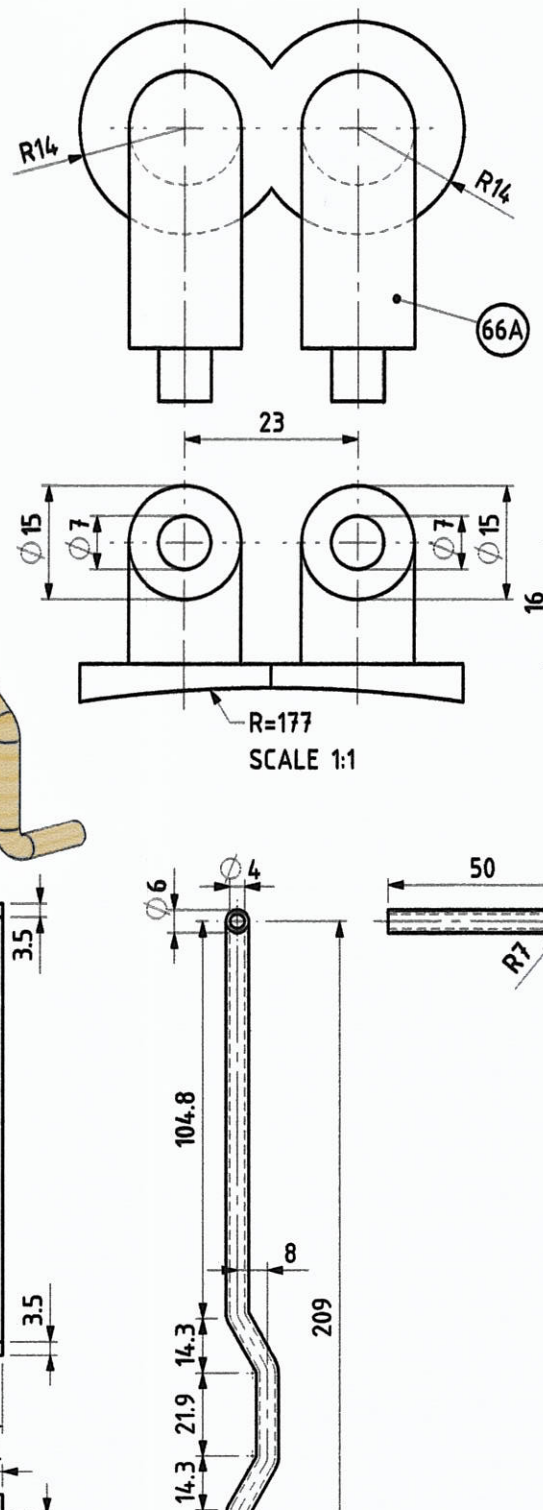

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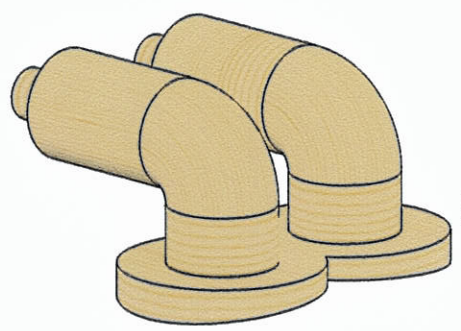

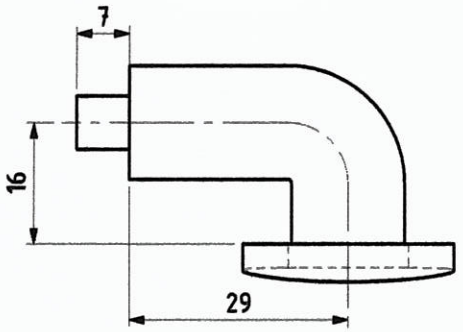

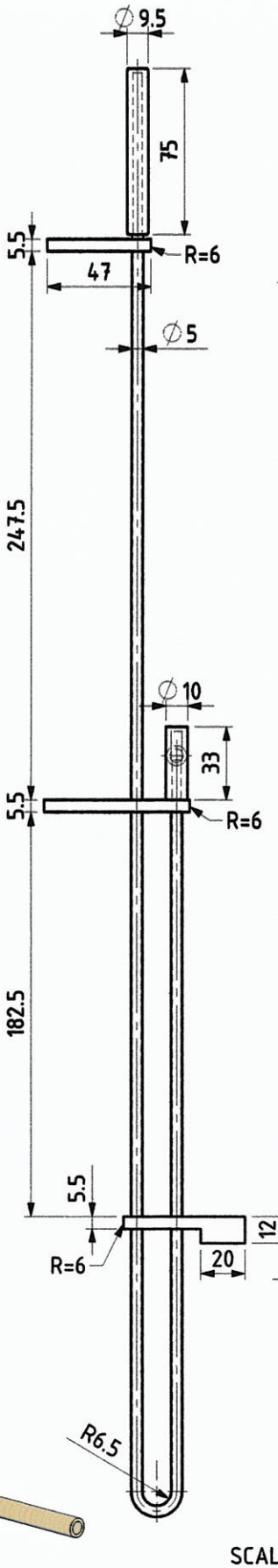

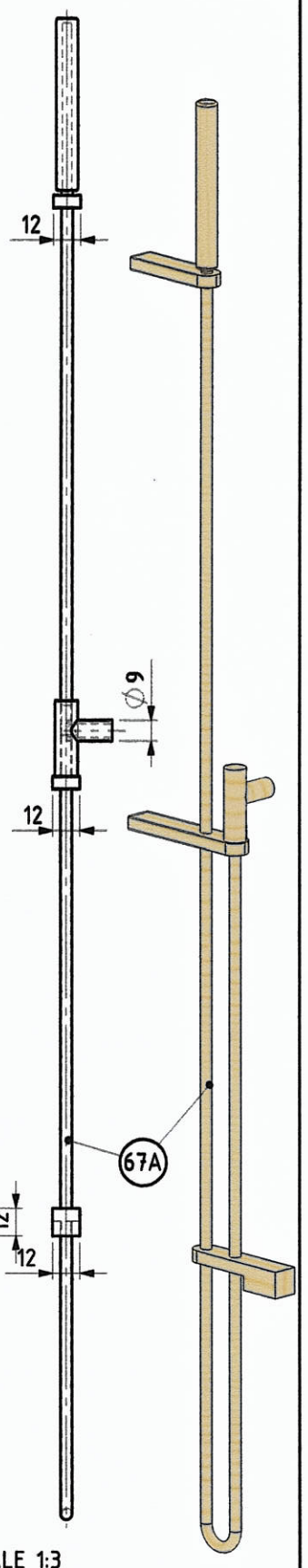

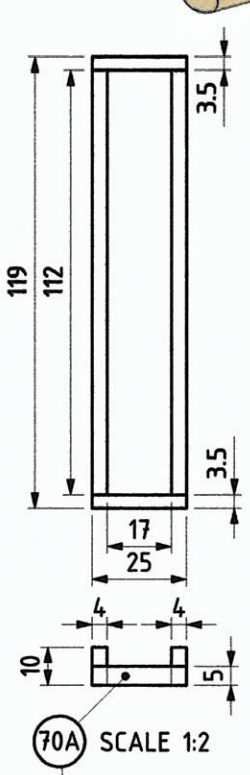

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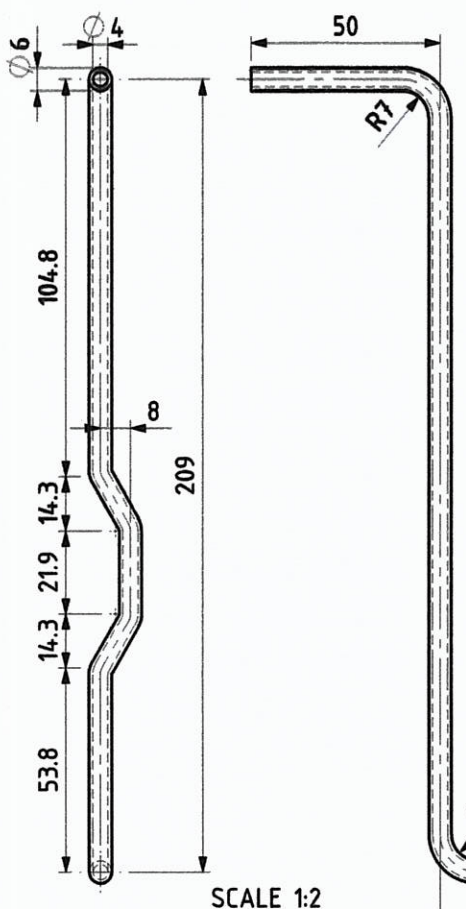

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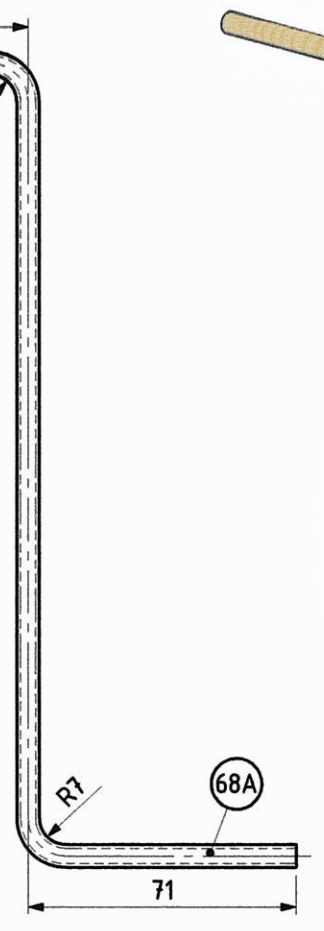
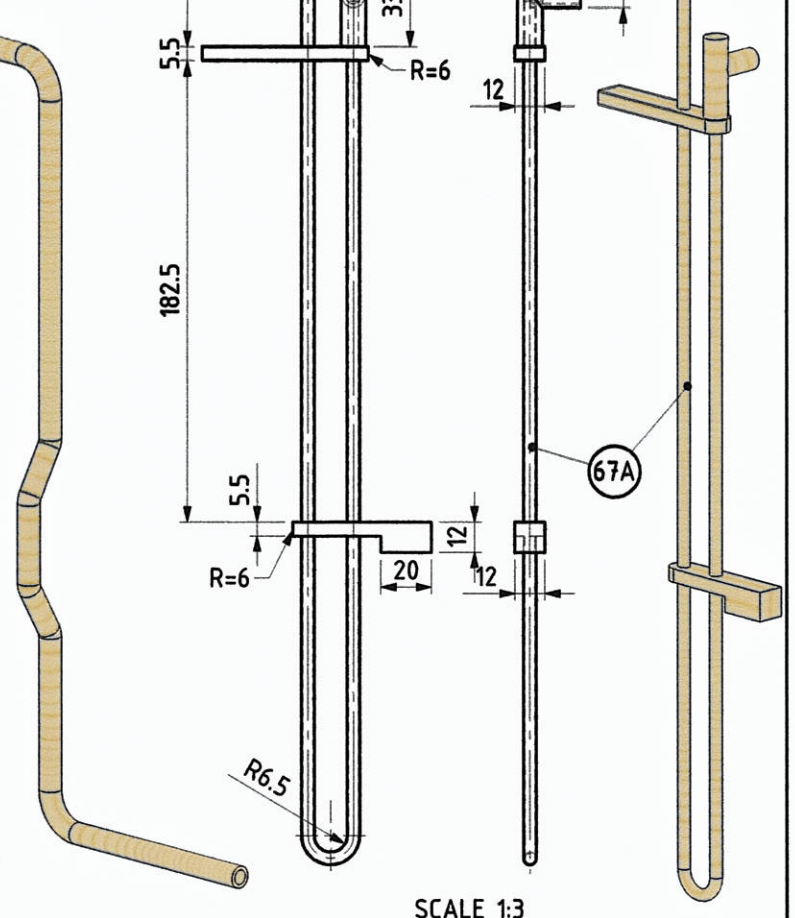
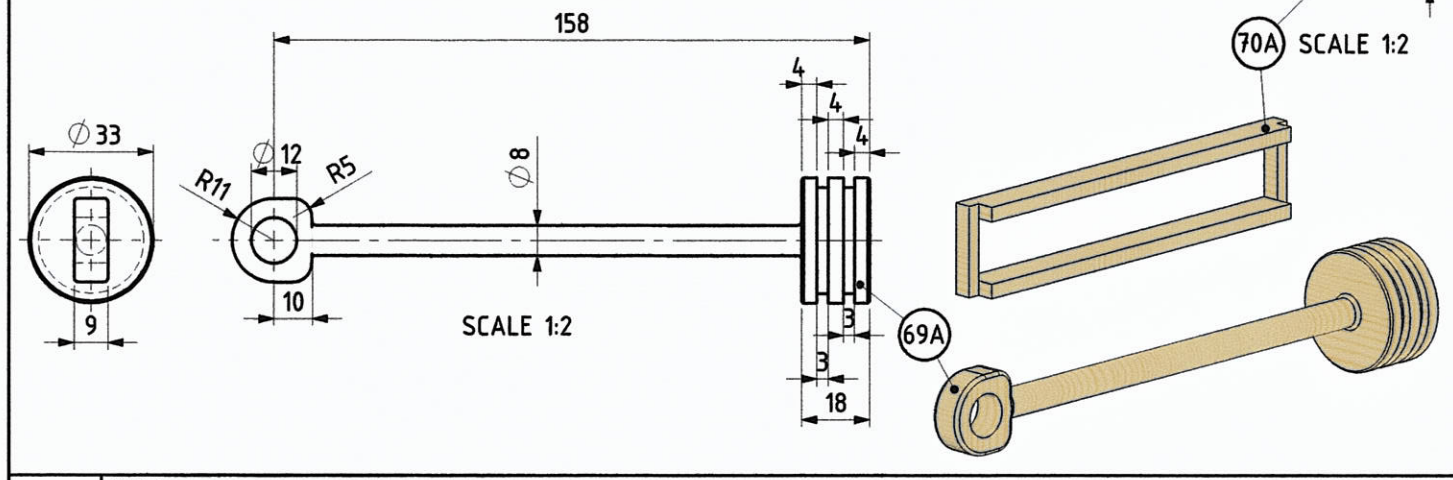




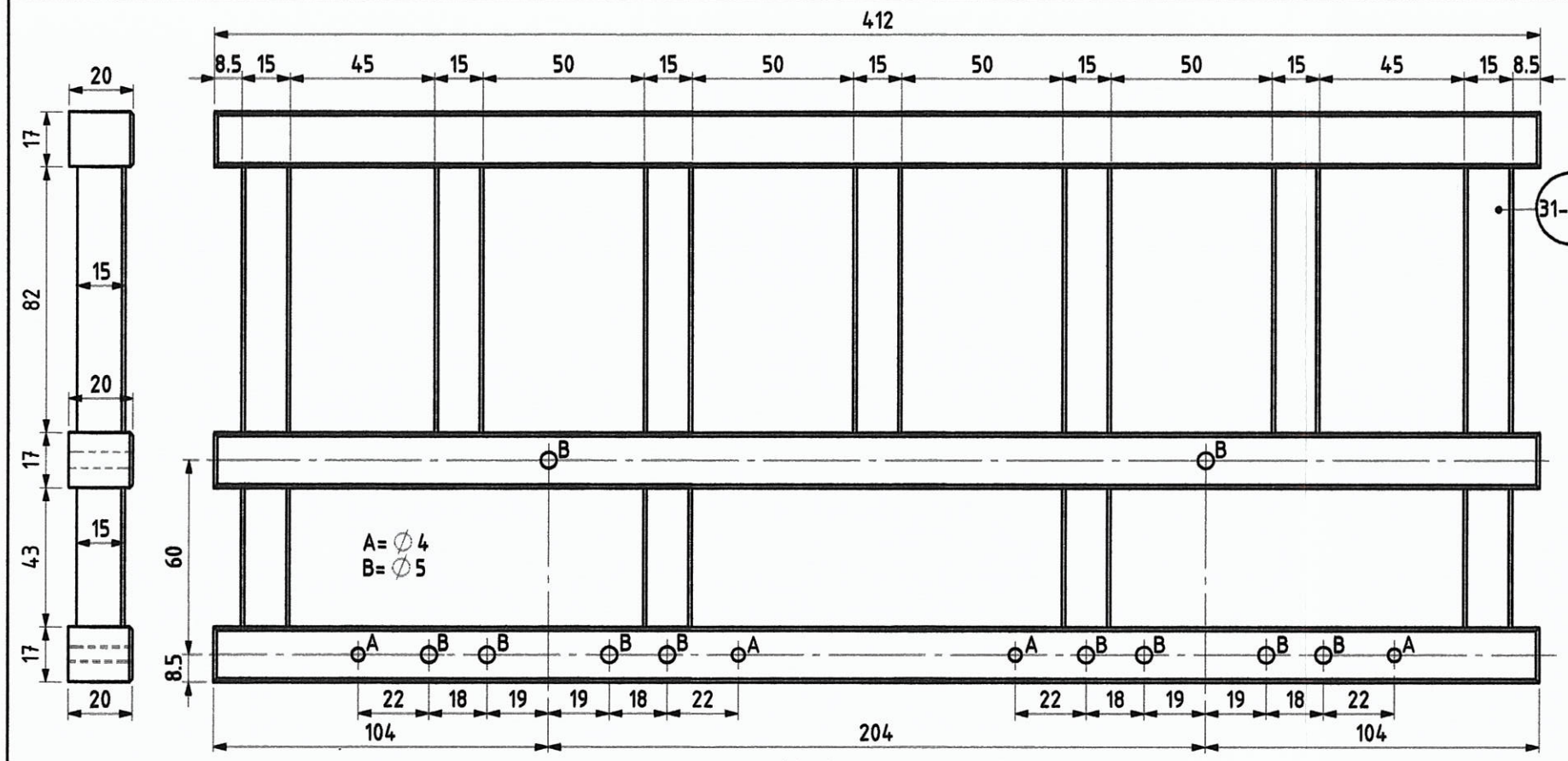
SCALE 1:3



SCALE 1:2

A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008	PROJECTION	DRAWING NUMBER 1829SRT SCALE AS STATED SHEET 12 REV A
		REV	DESCRIPTION	DATE			
		A	ISSUED FOR CONSTRUCTION				

IF NOT STATED ALL CHAMFERS ARE 0.2 x 45°



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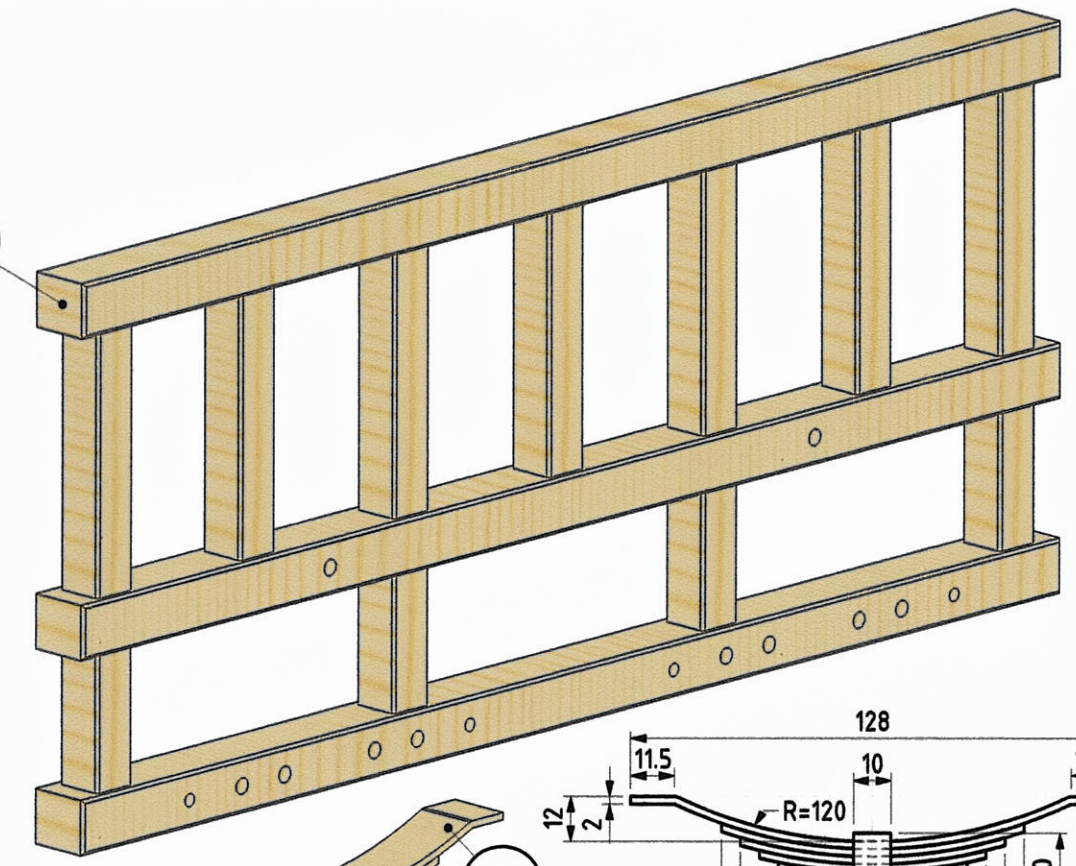

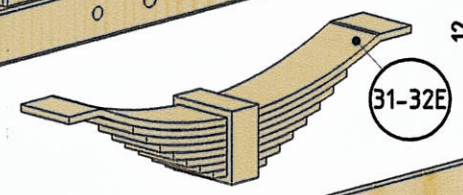

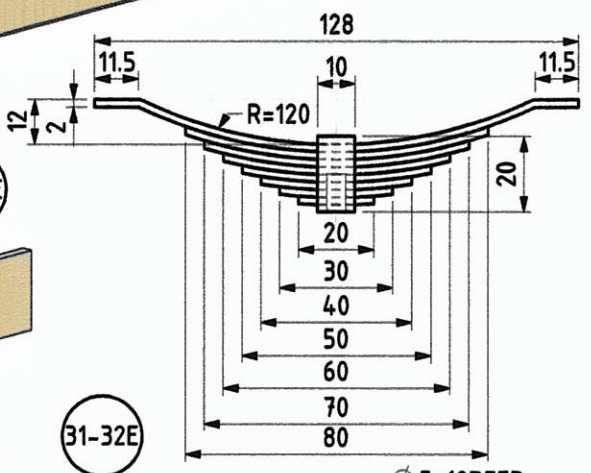

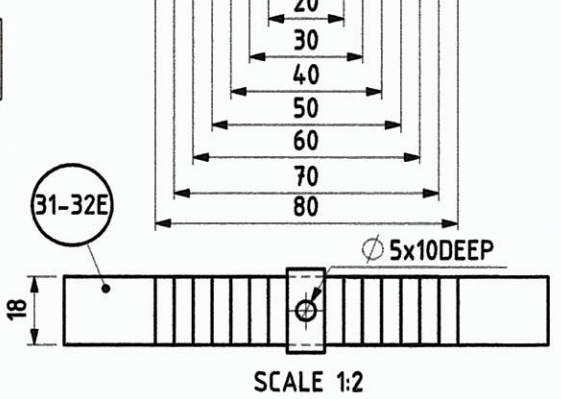

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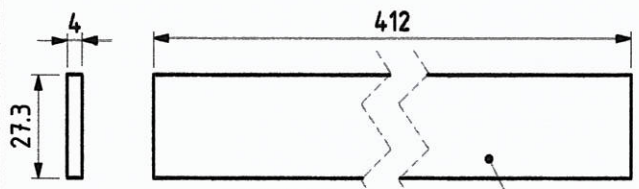
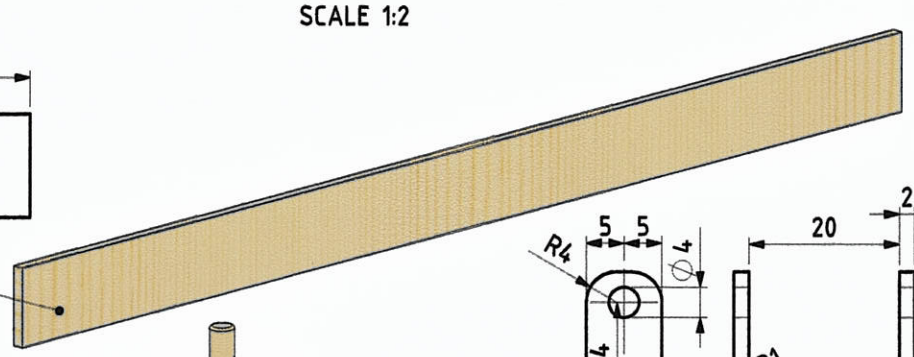
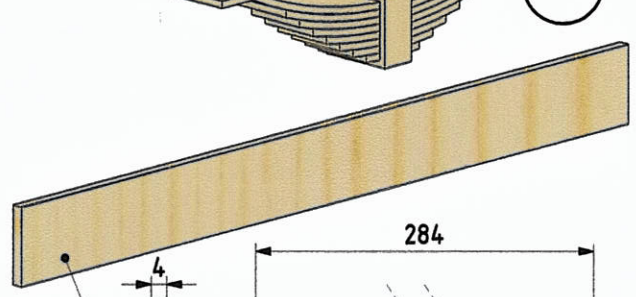


SCALE 1:2

31-32B





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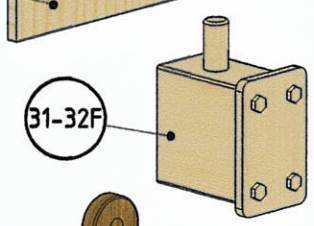
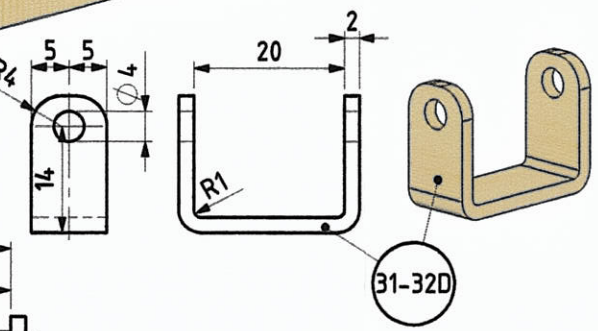
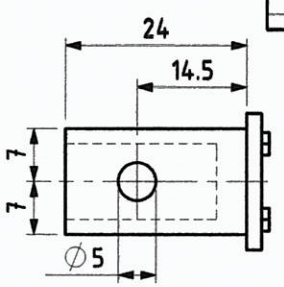
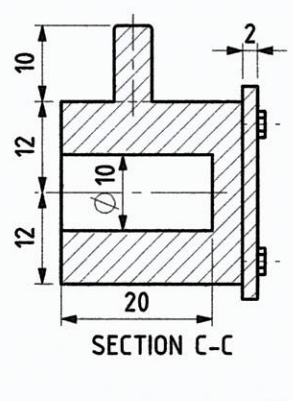
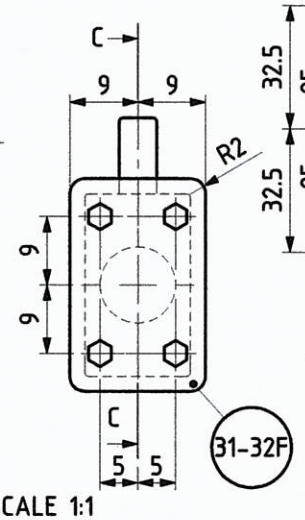




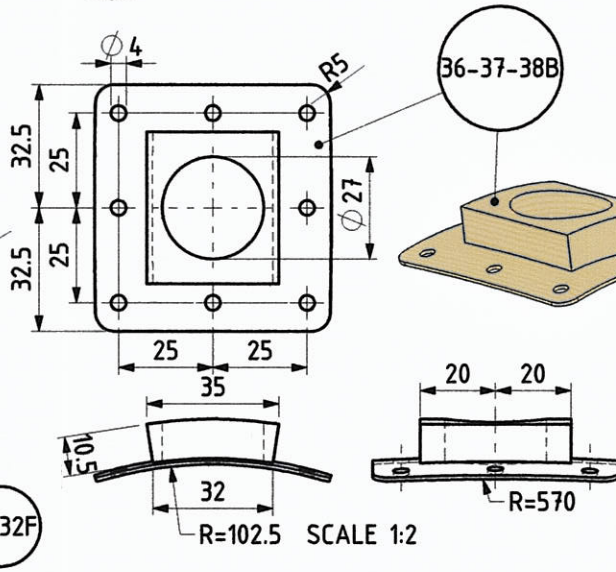




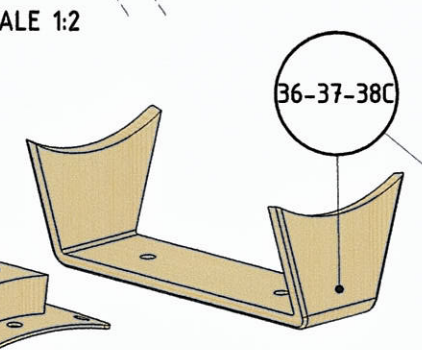
SECTION C-C

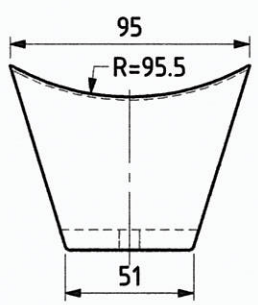


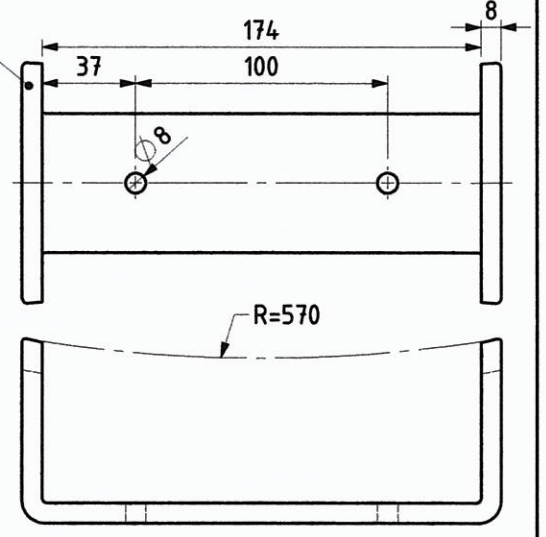
SCALE 1:1



SCALE 1:2







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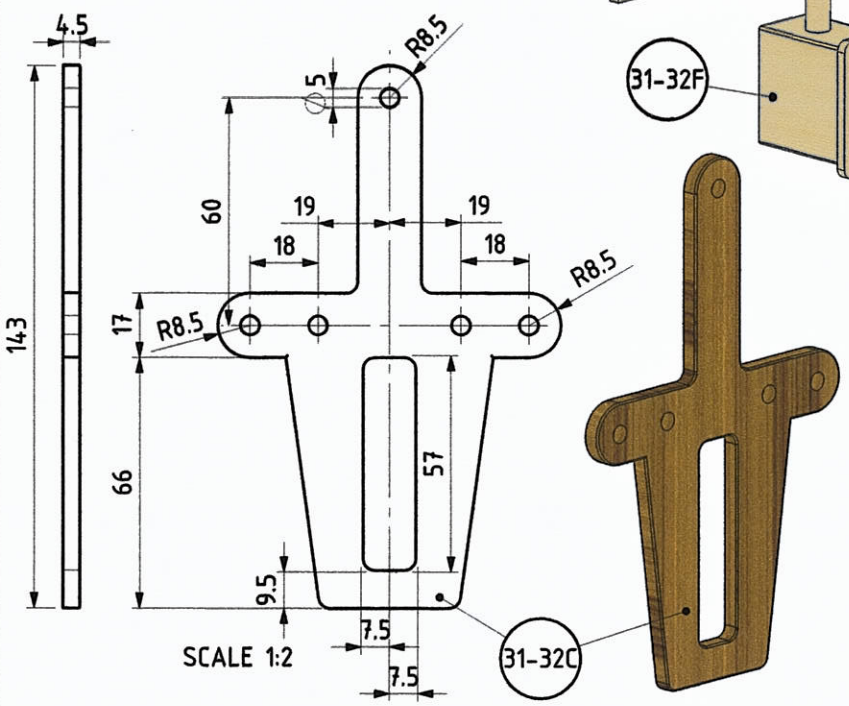
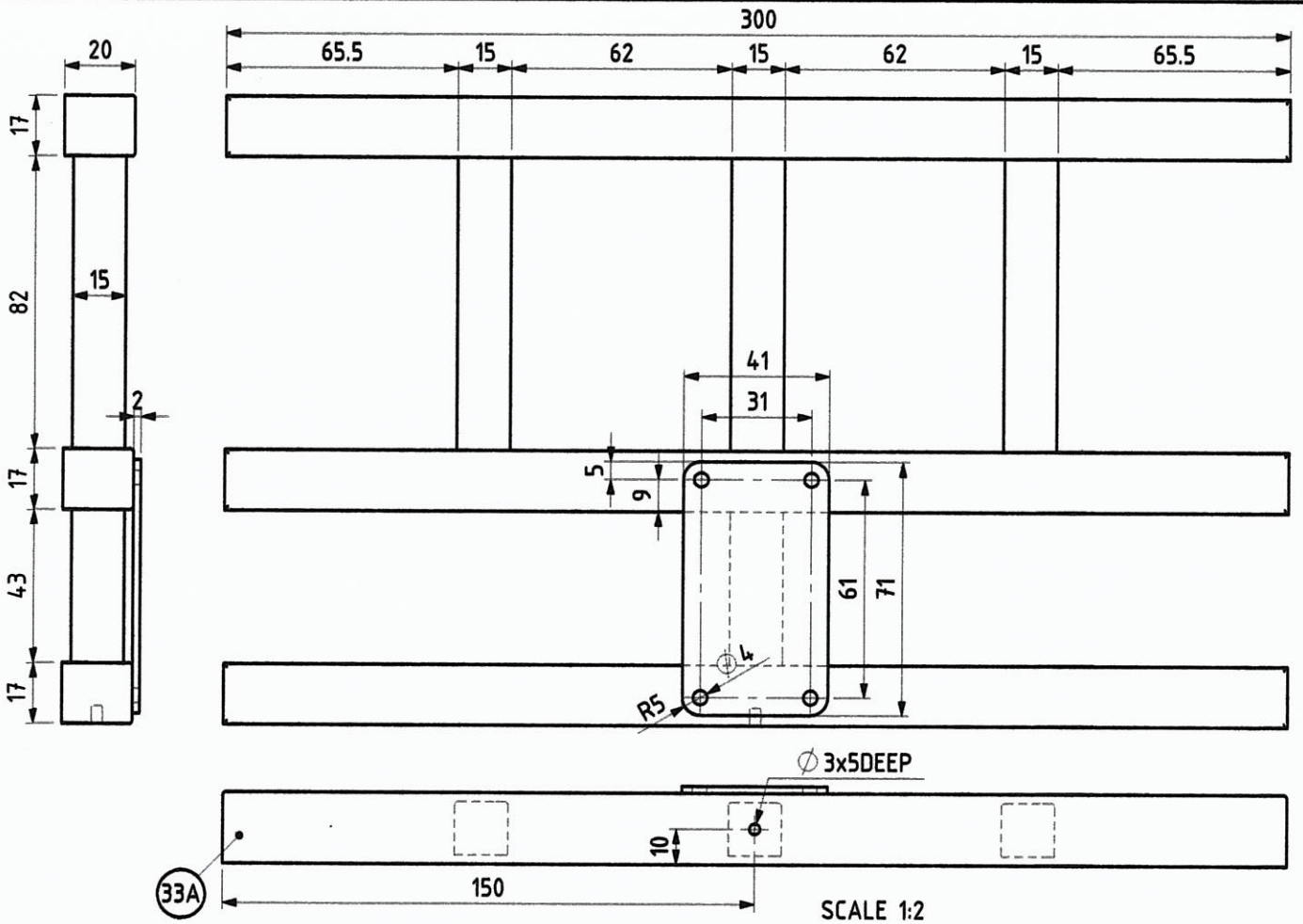


SCALE 1:2

31-32C

A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL DATE FEB-2008	PROJECTION SCALE AS STATED	DRAWING NUMBER 1829SRT SHEET 13 REV A
		REV / DESCRIPTION / DATE A ISSUED FOR CONSTRUCTION				

IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°



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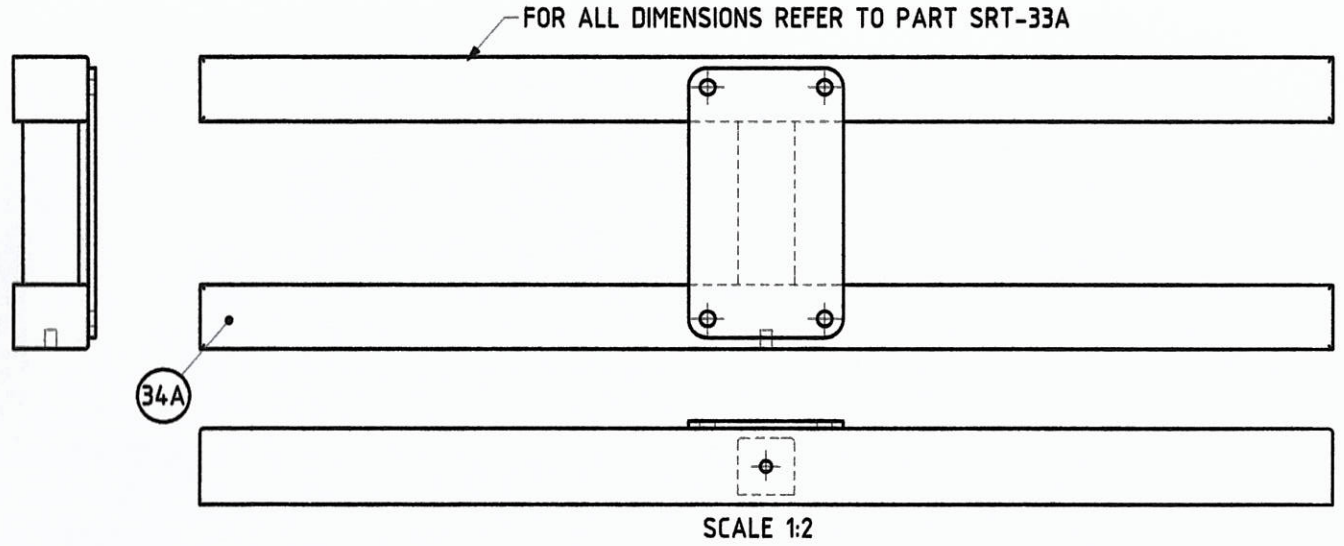
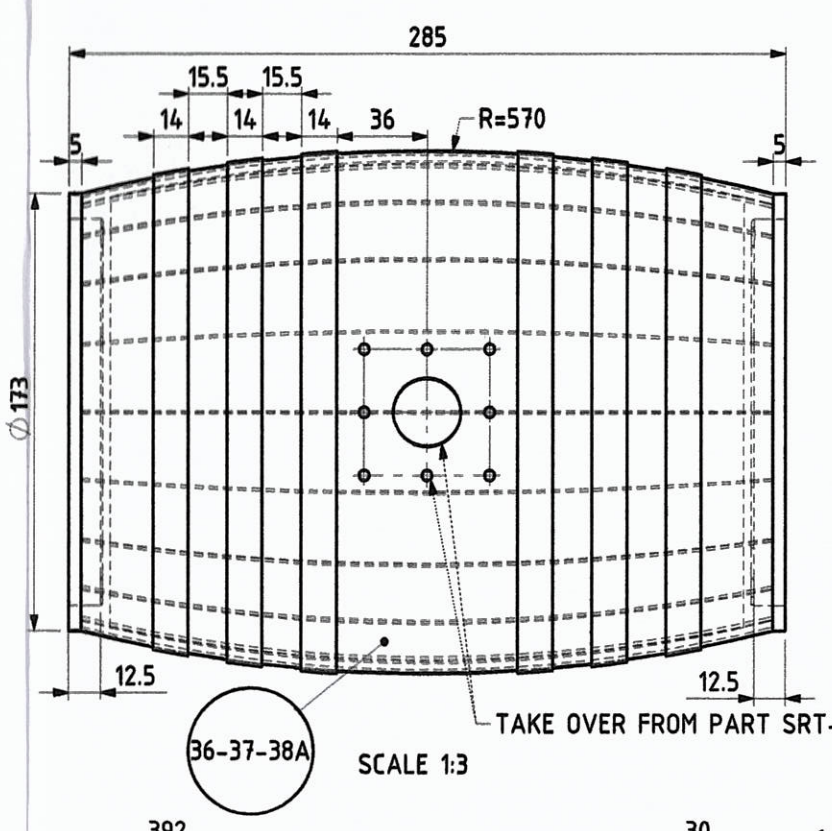
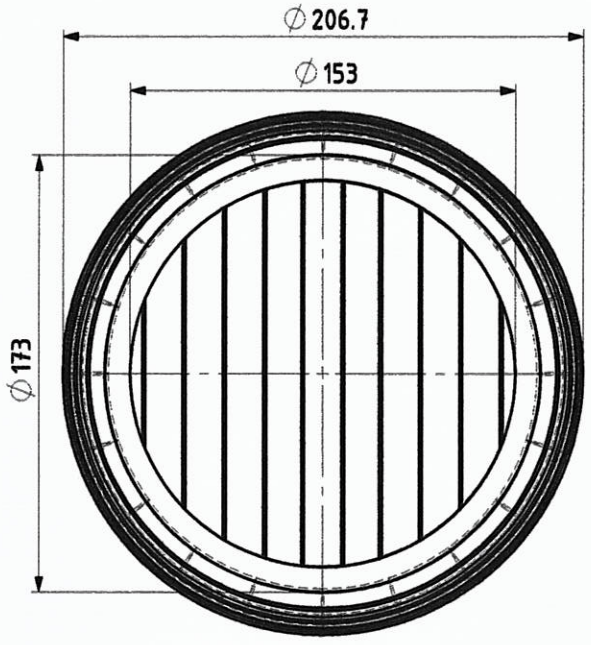


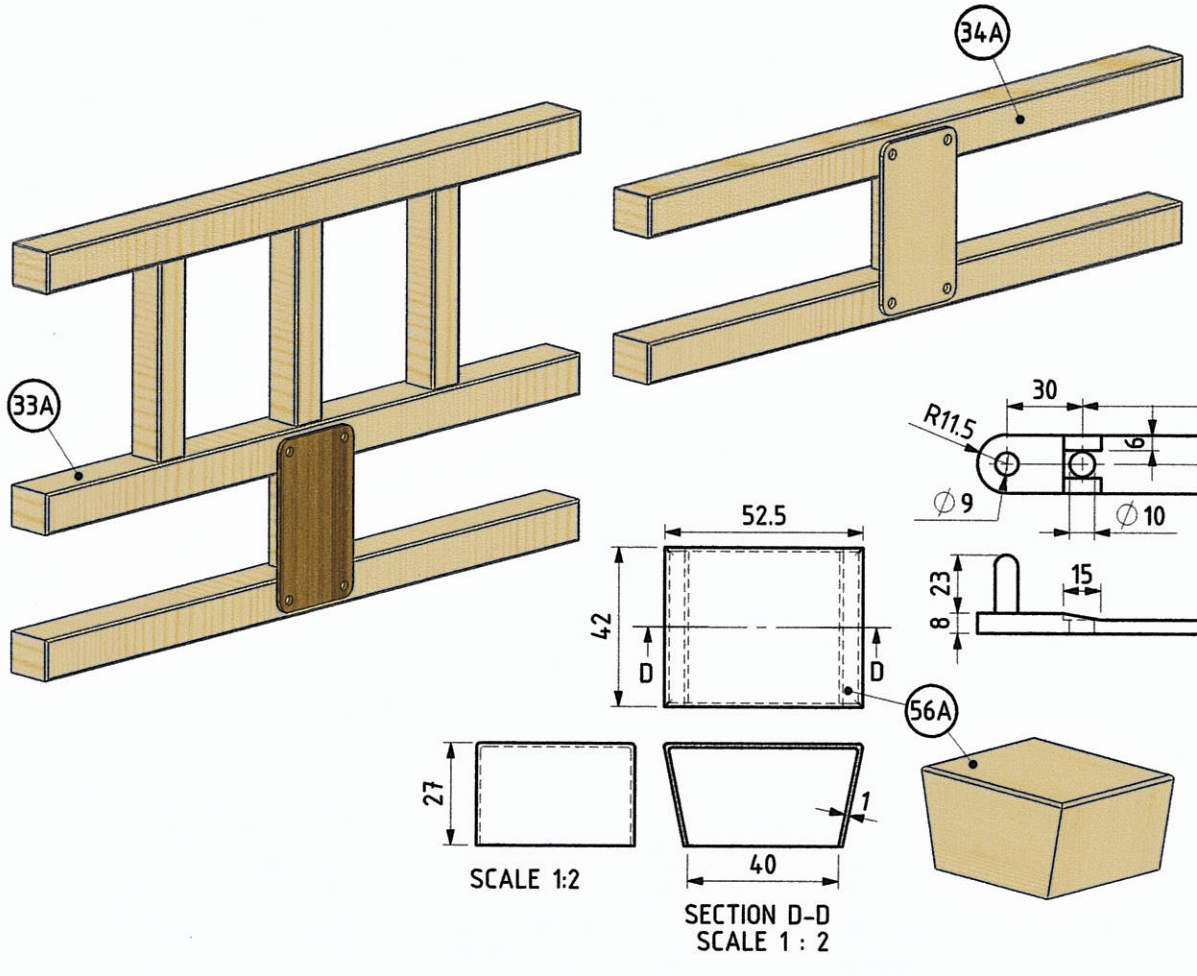
SCALE 1:2

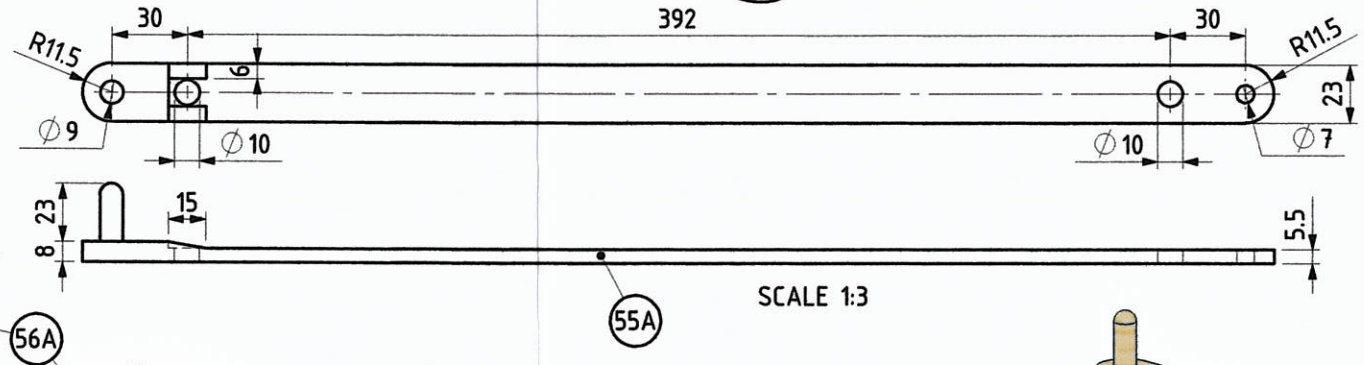


SCALE 1:3

TAKE OVER FROM PART SRT-36-37-38B



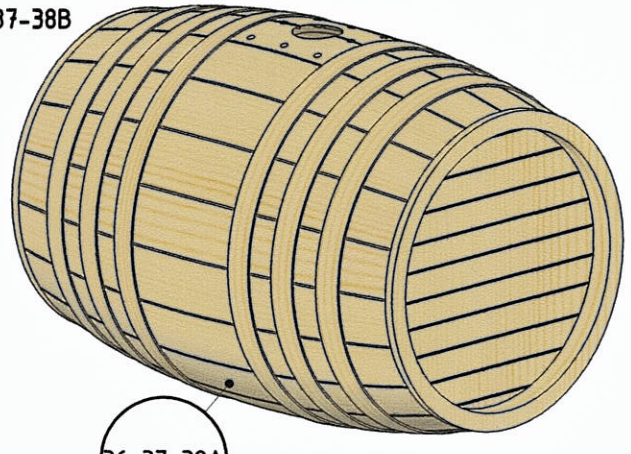


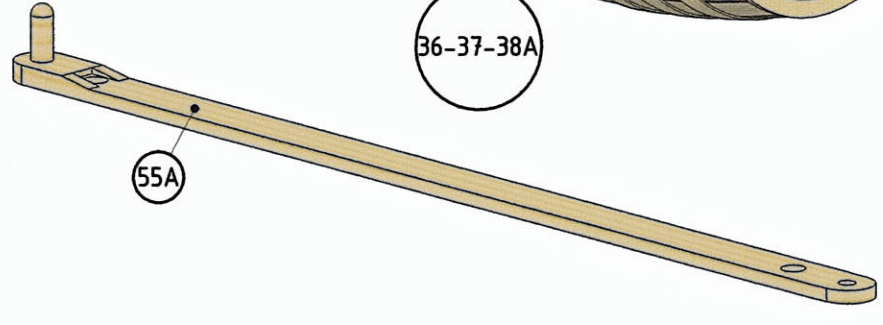


SCALE 1:3

SCALE 1:2

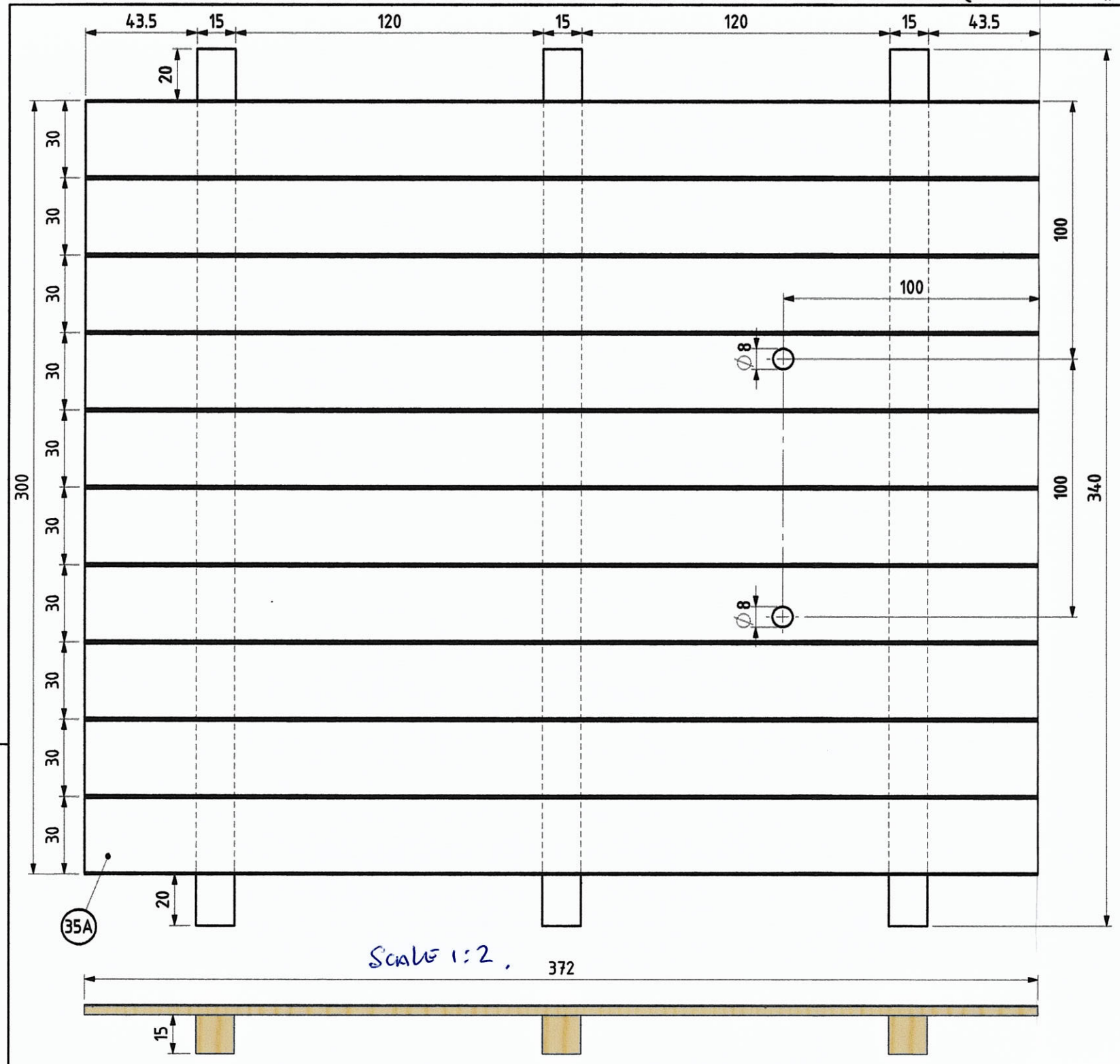
SECTION D-D
SCALE 1 : 2

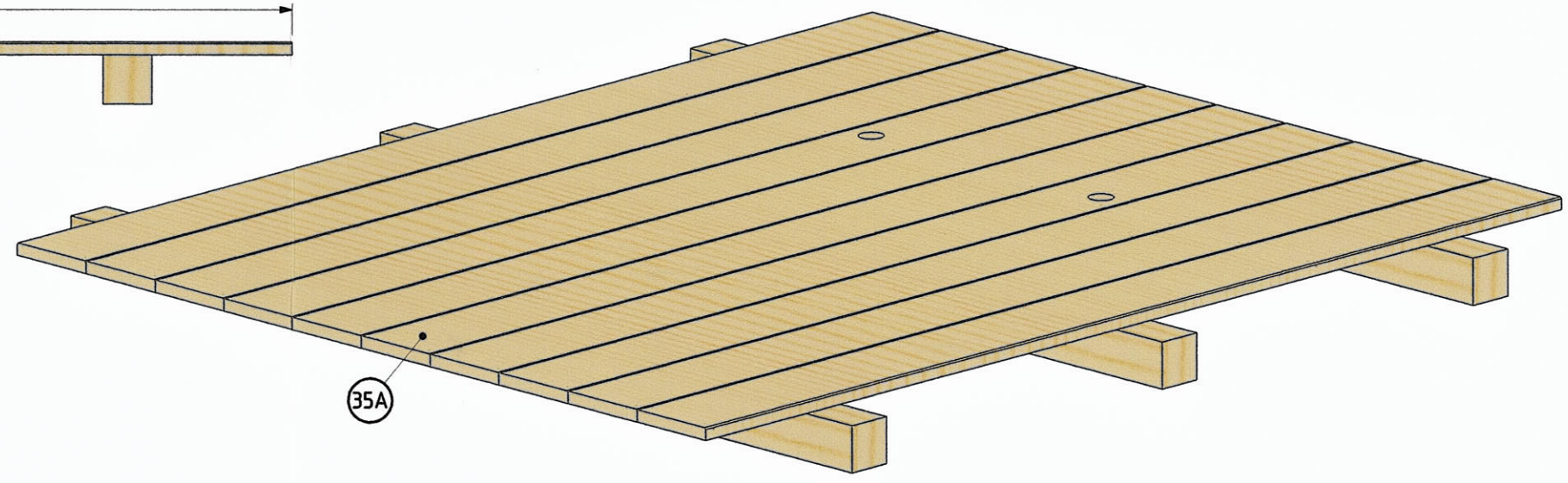




A3	TITLE: 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY: J.A.M. DE WAAL DATE: FEB-2008	PROJECTION	DRAWING NUMBER: 1829SRT SHEET: 14 REV: A
		A ISSUED FOR CONSTRUCTION			SCALE: AS STATED	
		REV DESCRIPTION DATE				

IF NOT STATED ALL CHAMFERS ARE 0.2mm x 45°





A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET PARTS			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A	ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 15 REV A
		REV	DESCRIPTION	DATE			

SA-102

SA-103

SA-104

SA-105

SA-106

SA-107

SA-108

SA-109

SA-110

SA-111

SA-112

SA-113

SA-114

SA-115

SA-116

SA-117

SA-118

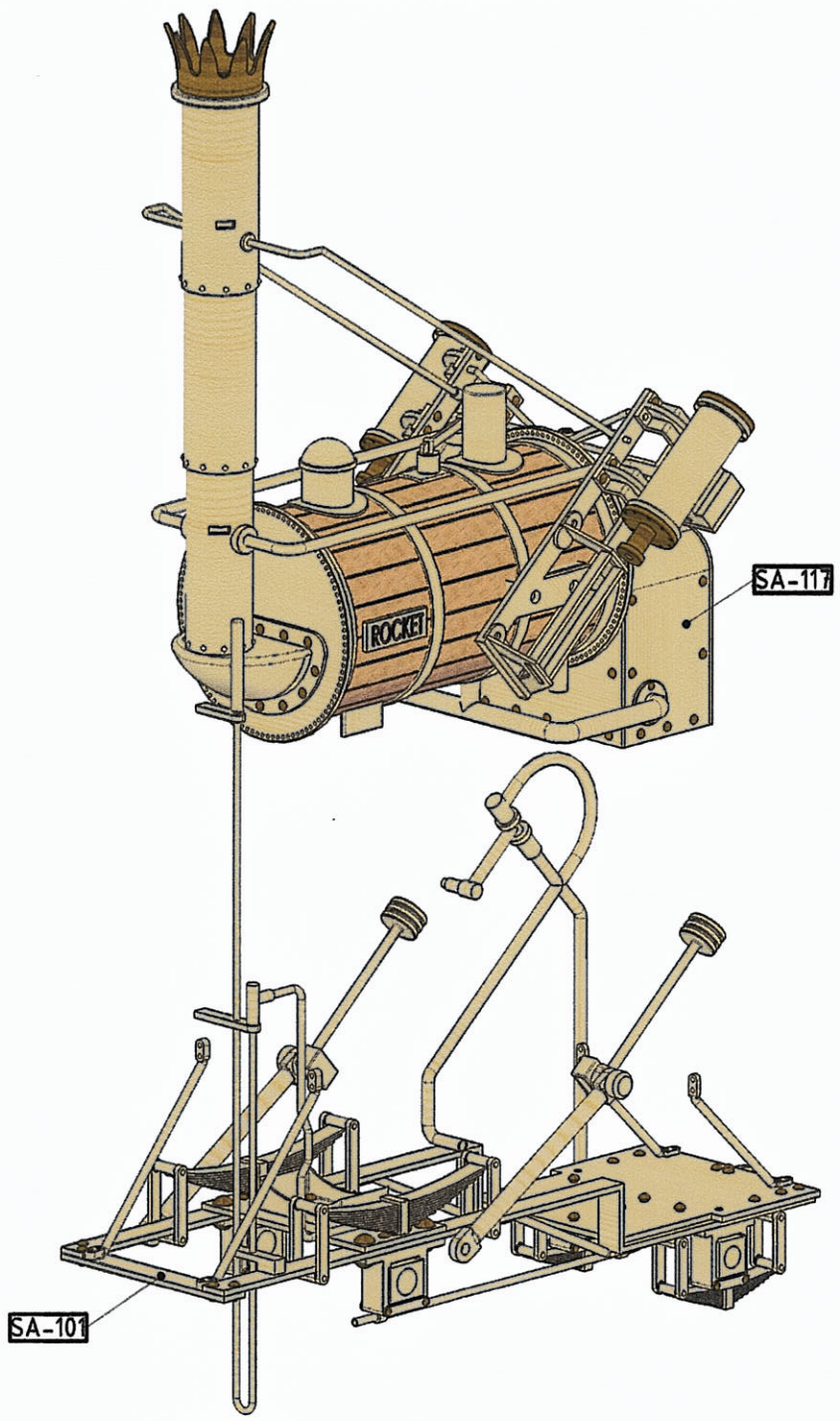
SA-119

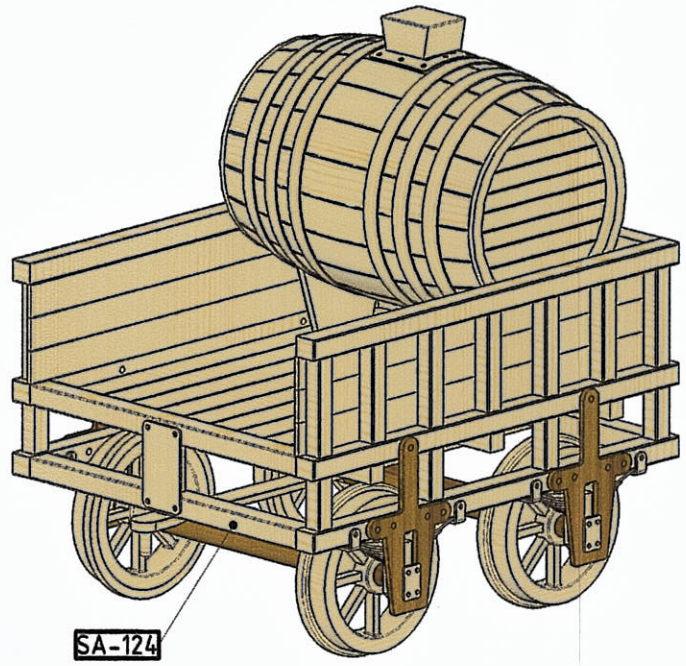
SA-120

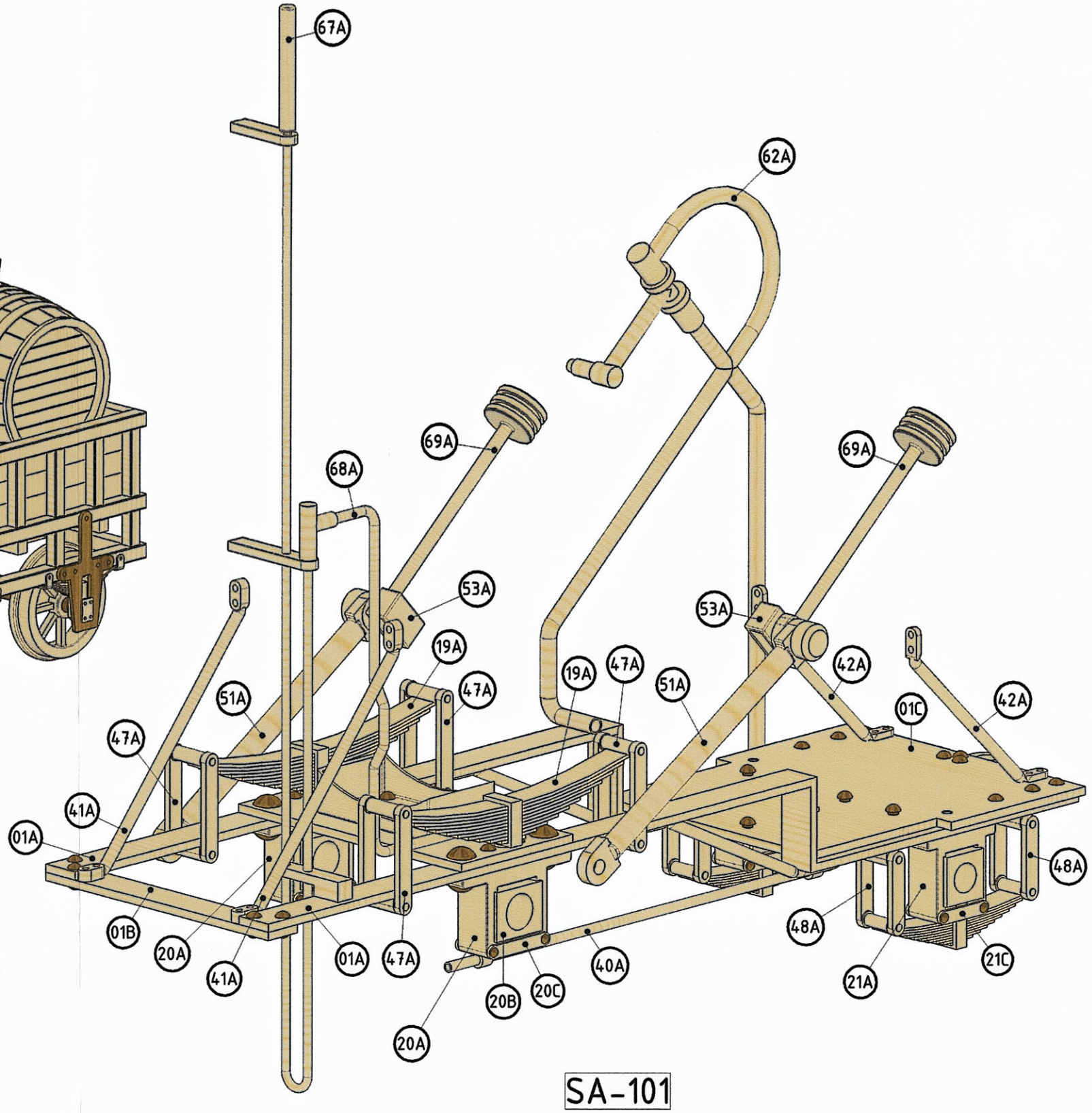
SA-121

A3	TITLE 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET ASSEMBLIES		JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER 1829SRT
		A ISSUED FOR CONSTRUCTION		DATE FEB-2008	SCALE AS STATED	SHEET 16 REV A
		REV DESCRIPTION DATE				

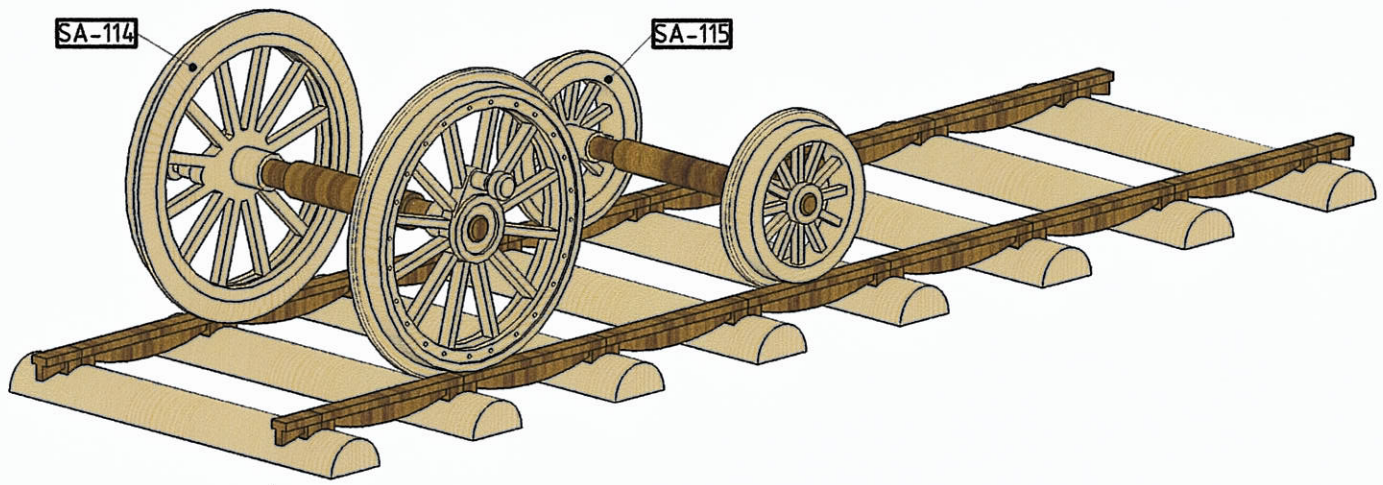
IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°





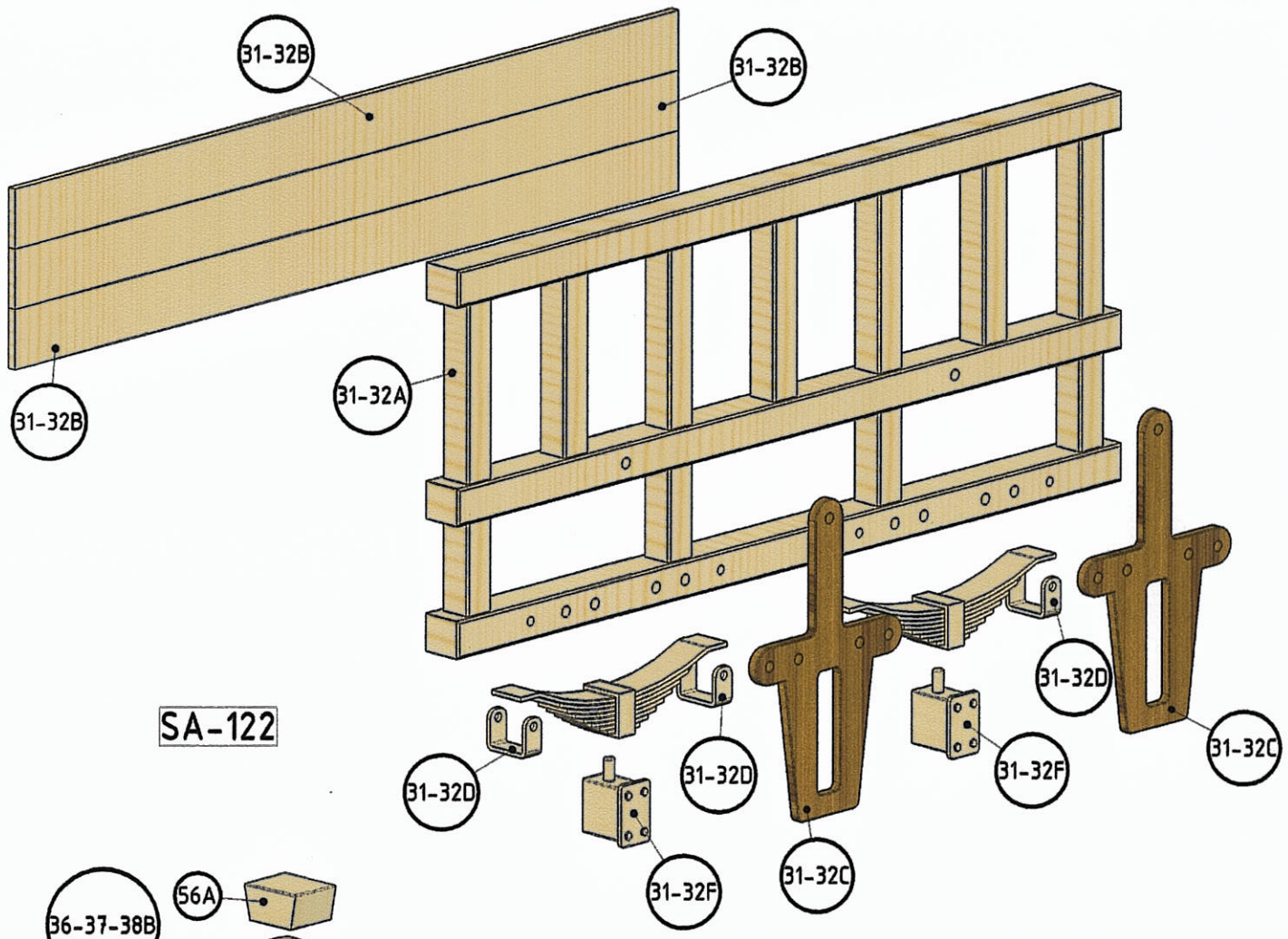


SA-101

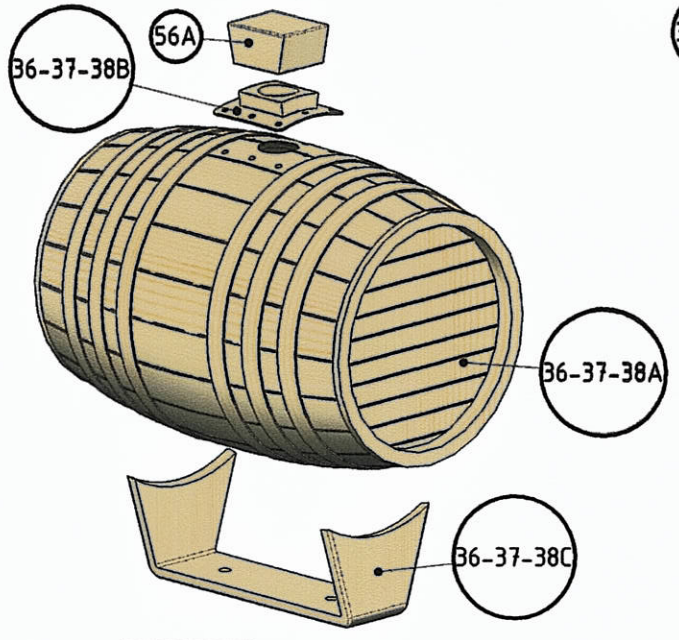


A3	TITLE: 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET ASSEMBLIES			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY: J.A.M. DE WAAL	PROJECTION	DRAWING NUMBER: 1829SRT
		A	ISSUED FOR CONSTRUCTION		DATE: FEB-2008	SCALE: AS STATED	SHEET: 17 REV: A
		REV	DESCRIPTION	DATE			

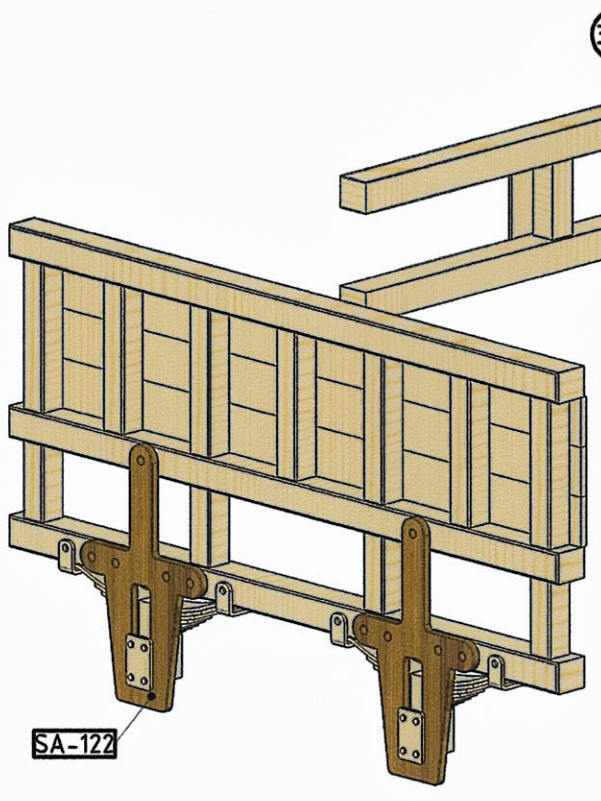
IF NOT STATED ALL CHAMFERS ARE 0.2mm/45°



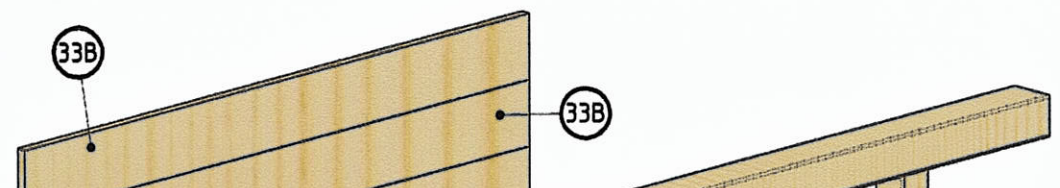
SA-122



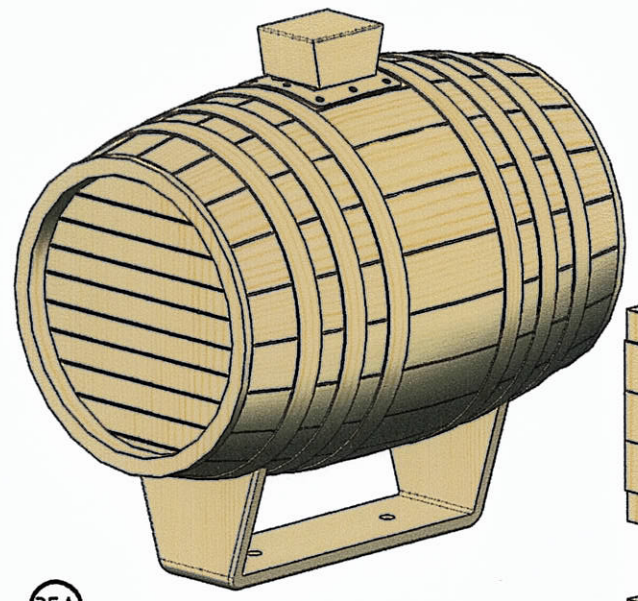
SA-125

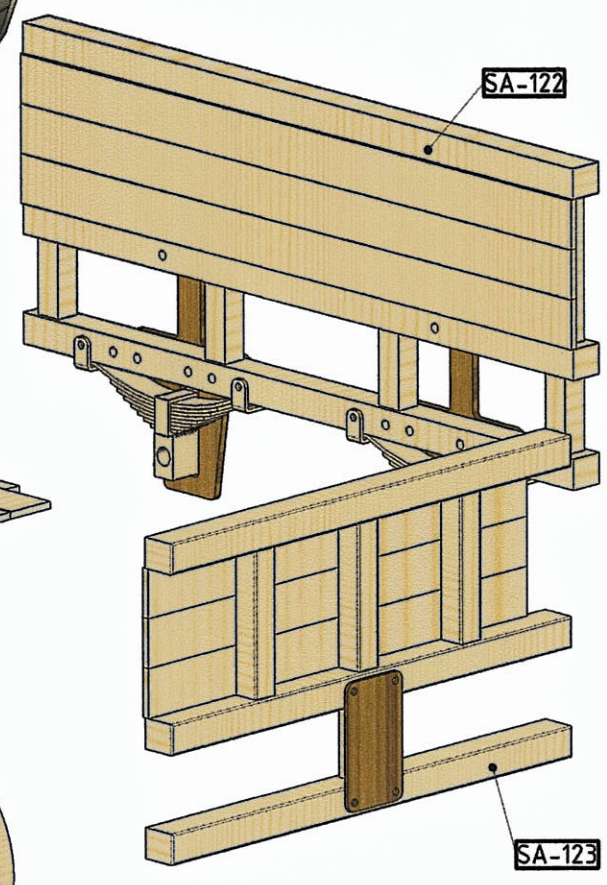


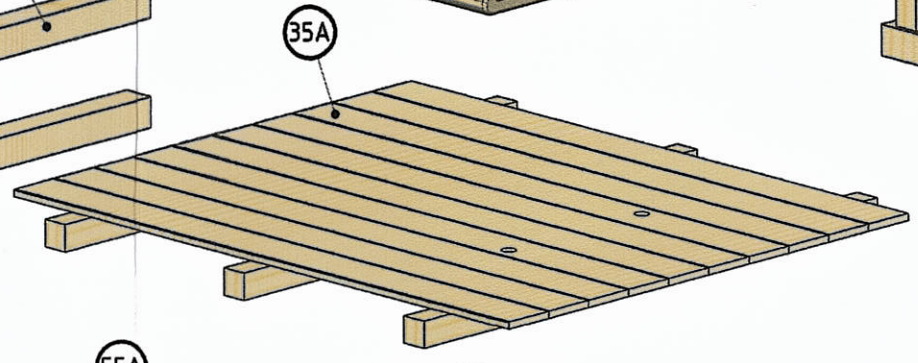
SA-124

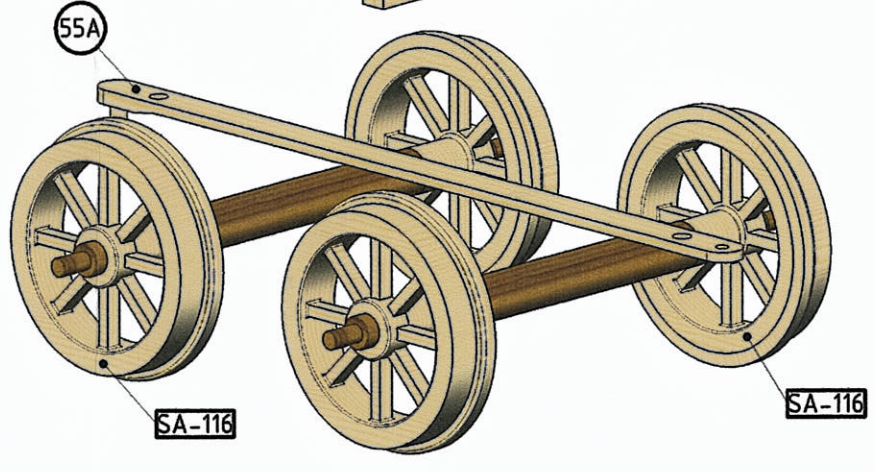


SA-123









A3	TITLE: 1829 STEPHENSON STEAM LOCOMOTIVE THE ROCKET ASSEMBLIES			JDW DRAUGHTING SERVICES 12 BRIGHTWELL STREET PAPAKURA NEW ZEALAND TEL/FAX 0064-09-2988815 E-MAIL:dewaal@xtra.co.nz	DRAWN BY: J.A.M. DE WAAL DATE: FEB-2008	PROJECTION SCALE: AS STATED	DRAWING NUMBER: 1829SRT SHEET: 17 REV: A
		A	ISSUED FOR CONSTRUCTION				
		REV	DESCRIPTION	DATE			