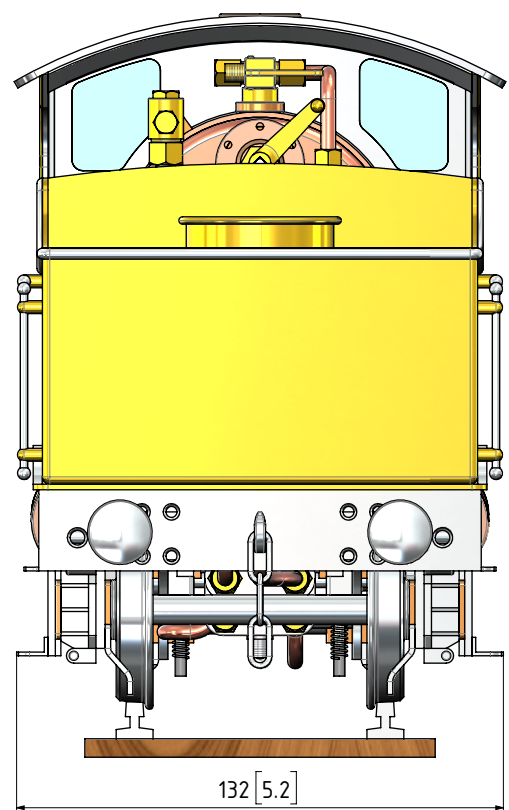
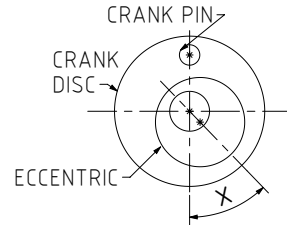


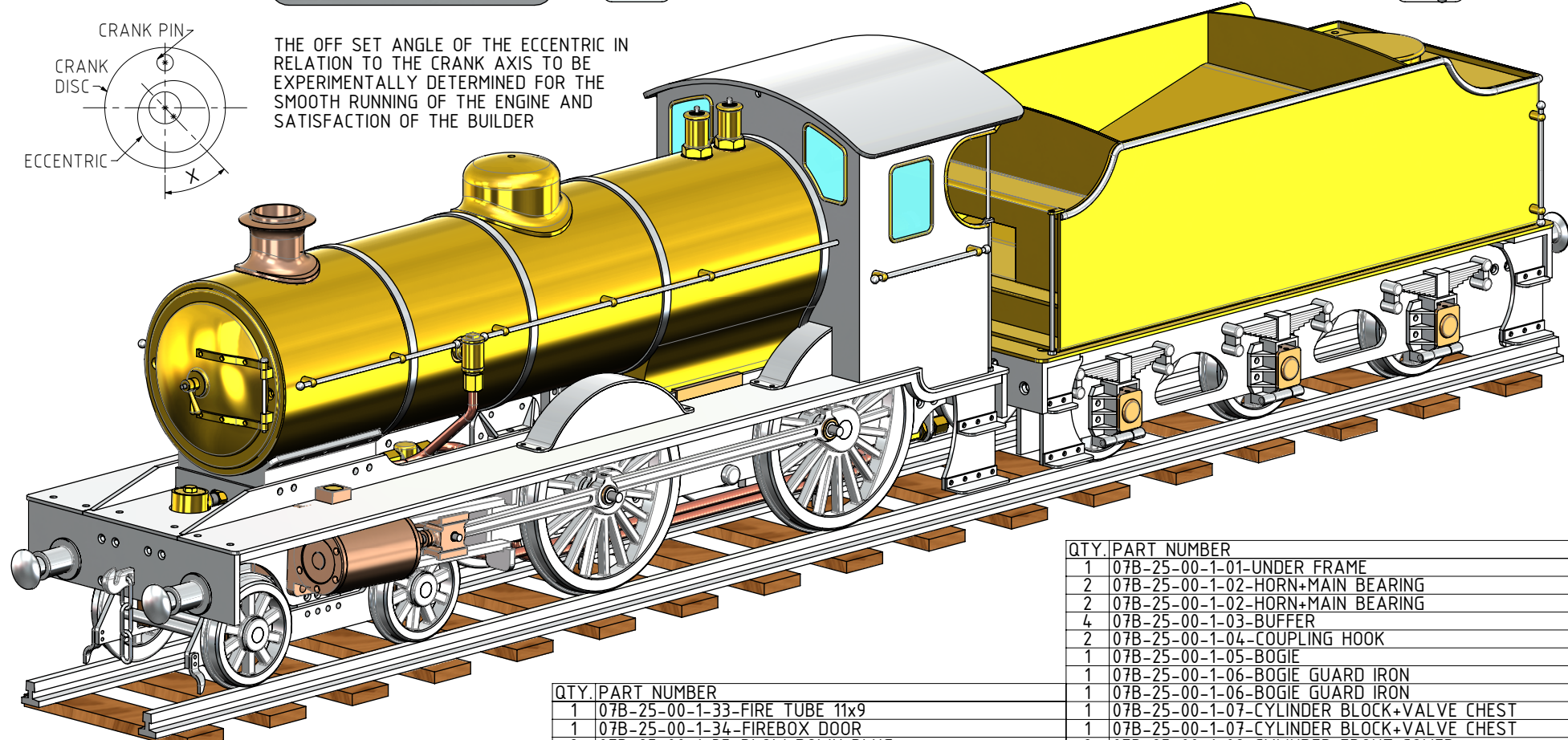
IMPORTANT NOTE:
BEFORE STARTING: IT IS STRONGLY ADVISED THAT THE BOILER AS SHOWN ON THESE DRAWINGS SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER AND THE WORKING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED. MAKE SURE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS. A COMPLIANCE AND SAFETY/TEST CERTIFICATE SHOULD BE OBTAINED.



DUE TO THE LACK OF INFORMATION ON THE ORIGINAL DRAWING(S), SUCH AS VIEWS, DIMENSIONS, SECTIONS ETC AND/OR CLARITY OF COMPONENTS, OMITTED PARTS/COMPONENTS, SOME OF THE COMPONENTS MIGHT NOT BE AS CONSTRUCTED ORIGINALLY OR AS THE ORIGINAL DESIGNER INTENDED



THE OFF SET ANGLE OF THE ECCENTRIC IN RELATION TO THE CRANK AXIS TO BE EXPERIMENTALLY DETERMINED FOR THE SMOOTH RUNNING OF THE ENGINE AND SATISFACTION OF THE BUILDER



QTY.	PART NUMBER
1	07B-25-00-1-56-BLOWER PIPE
1	07B-25-00-1-56-SIDE BOILER N.R.V WATER FEED PIPE
1	07B-25-00-1-57-MECH.PUMP WATER FEED PIPE
1	07B-25-00-1-58-FROM M.P. TO N.R. BRANCH VALVE
1	07B-25-00-1-59-HAND PUMP FEED PIPE
1	07B-25-00-1-60-TENDER M.P. FEED PIPE
1	07B-25-00-1-61-HAND PUMP
1	07B-25-00-1-62-TENDER HAND PUMP DISCHARGE PIPE
2	07B-25-00-2-01-BOGIE WHEEL SET
3	07B-25-00-2-02-TENDER WHEEL SET
1	07B-25-00-2-03-LOCO WHEEL SET
1	07B-25-00-2-03-LOCO WHEEL SET
2	07B-25-00-2-04-COUPLING ROD
2	07B-25-00-2-05-PISTON+CROSSHEAD
1	07B-25-00-2-06-CON-ROD
1	07B-25-00-2-06-CON-ROD
2	07B-25-00-2-07-SLIDE VALVE
1	07B-25-00-2-08-MECH. PUMP ECCENTRIC SHEAVE
1	07B-25-00-2-09-MECH. PUMP PLUNGER
1	07B-25-00-2-10-MECH.PUMP ECCENTRIC STRAP
2	07B-25-00-2-11-STOP COLLAR
2	07B-25-00-2-12-SLIDE VALVE ECCENTRIC SHEAVE
2	07B-25-00-2-13-SLIDE VALVE ECCENTRIC STRAP
1	07B-25-00-M64mm-RAIL

QTY.	PART NUMBER
1	07B-25-00-1-33-FIRE TUBE 11x9
1	07B-25-00-1-34-FIREBOX DOOR
2	07B-25-00-1-35-BLOW DOWN PLUG
5	07B-25-00-1-36-NIPPLE M6x4+NUT
1	07B-25-00-1-37-SMOKE BOX
1	07B-25-00-1-38-PETTICOAT PIPE
1	07B-25-00-1-39-CHIMNEY
1	07B-25-00-1-40-RUNNING BOARD
1	07B-25-00-1-40-RUNNING BOARD
1	07B-25-00-1-41-FRONT FOOTPLATE
1	07B-25-00-1-42-REAR FOOTPLATE
1	07B-25-00-1-43-ASHPAN+GRATE
1	07B-25-00-1-44-DRIVERS CABIN
1	07B-25-00-1-45-BOILER CLADDING
1	07B-25-00-1-46-STEAM DOME
1	07B-25-00-1-47-BOILER HAND RAIL
1	07B-25-00-1-47-BOILER HAND RAIL
1	07B-25-00-1-48-CABIN STEP
1	07B-25-00-1-48-CABIN STEP
2	07B-25-00-1-49-CABIN SIDE HAND RAIL
1	07B-25-00-1-50-TENDER UNDER FRAME
6	07B-25-00-1-51-TENDER LEAFSPRING+HORN
1	07B-25-00-1-52-COAL+WATER BUNKER
2	07B-25-00-1-53-TENDER STEP
2	07B-25-00-1-53-TENDER STEP
2	07B-25-00-1-54-TENDER SIDE HAND RAIL
1	07B-25-00-1-55-TENDER GUARD IRON
1	07B-25-00-1-55-TENDER GUARD IRON

QTY.	PART NUMBER
1	07B-25-00-1-01-UNDER FRAME
2	07B-25-00-1-02-HORN+MAIN BEARING
2	07B-25-00-1-02-HORN+MAIN BEARING
4	07B-25-00-1-03-BUFFER
2	07B-25-00-1-04-COUPLING HOOK
1	07B-25-00-1-05-BOGIE
1	07B-25-00-1-06-BOGIE GUARD IRON
1	07B-25-00-1-06-BOGIE GUARD IRON
1	07B-25-00-1-07-CYLINDER BLOCK+VALVE CHEST
1	07B-25-00-1-07-CYLINDER BLOCK+VALVE CHEST
2	07B-25-00-1-08-CYLINDER FRONT COVER
2	07B-25-00-1-09-CYLINDER REAR COVER
1	07B-25-00-1-10-MOTION BRACKET
1	07B-25-00-1-10-MOTION BRACKET
1	07B-25-00-1-11-EXHAUST PIPES
1	07B-25-00-1-12-CYLINDER STEAM INLET PIPE
1	07B-25-00-1-13-SMOKEBOX SADDLE
1	07B-25-00-1-14-DIPLACEMENT LUBRICATOR
1	07B-25-00-1-15-BOILER
6	07B-25-00-1-16-BUSH M6x9x11
4	07B-25-00-1-17-BUSH M8x11x13
1	07B-25-00-1-18-DOME BUSH D10x18x20
1	07B-25-00-1-19-BLOWER NIPPLE
1	07B-25-00-1-20-SOLID LONGITUDINAL STAY
1	07B-25-00-1-21-BLOWER VALVE
2	07B-25-00-1-22-SAFETY VALVE
1	07B-25-00-1-23-STEAM MANIFOLD
2	07B-25-00-1-24-NON RETURN VALVE
23	07B-25-00-1-25-M6x4 PIPE NUT
1	07B-25-00-1-26-NON RETURN BRANCH VALVE
1	07B-25-00-1-27-WATER LEVEL GAUGE
1	07B-25-00-1-28-REGULATOR
1	07B-25-00-1-29-SUPER HEATER CONNECTION BOX
1	07B-25-00-1-30-FIRE BOX
6	07B-25-00-1-31-FIRE TUBE 9.5x8
1	07B-25-00-1-32-FIRE TUBE 19x17

NOTES: THE ORIGINAL DRAWINGS AND ARTICLES WERE DOWNLOADED AROUND 15 YEARS AGO. THE DESIGN AND ORGINAL DRAWINGS WERE BY MARTIN EVANS, AND PUBLISHED IN "MODEL MECHANICS" MAGAZINE FROM 1979 AND 1980

TITLE
A COAL FIRED 4-4-0 STEAM LOCOMOTIVE
CALLED "EAGLE" FOR 2.5"/64mm GAUGE

DRAWING CONTENTS
GENERAL ARRANGEMENT, ISOMETRIC
VIEW, BILL OF MATERIAL, NOTES

PROJECT No 07B-25-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAPA KURA
2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB:
0211791000 E-MAIL: dewaal@xtra.co.nz.

PROJECTION
DATE OCTOBER 2024
SHEET: 02 OF 11
JDWDS
Copyright © J.A.M. DE WAAL PAPA KURA NZ
MODEL SCALE: 1:22.5
DWG SCALE: 1:1 @A3 OR AS SHOWN
A3 No:07B-25-00-SHT02

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES

0. ALL DRAWINGS ARE IN METRIC MEASUREMENTS.
1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES.
2. WHERE SCREWS OR BOLTS ARE USED THE CLEARANCE HOLES SHALL BE APPROXIMATELY 5% TO 8% LARGER THAN THE MATCHING TAPPED HOLE.
3. PREFERABLY ALL TAPPED HOLES AND MATCHING SCREWS AND/OR BOLTS TO BE METRIC FINE (MF)
4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.
5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED.
6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE.
7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY RESIN, OR SOLDER.
8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, BRONZE, GUNMETAL, STAINLESS STEEL, COPPER OR MONEL.
9. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.
10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.
11. THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.
12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING.
13. WASHERS AND/OR SPRING WASHERS SHALL BE USED WHERE DEEMED NECESSARY.
14. REMOVE ALL SHARP EDGES
- XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

1) NO MATERIALS HAVE BEEN SPECIFIED ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED MATERIAL FOR THE PARTS/COMPONENTS. THE FOLLOWING COLOURS ON THE DRAWINGS INDICATES POSSIBLE MATERIALS WHICH CAN BE USED FOR PARTS: YELLOW=BRASS, LIGHT GREY=ALUMINIUM OR MILD STEEL, REDDISH BROWN=COPPER, DARK BROWN=BRONZE OR GUN METAL, WHITISH=SILVER STEEL OR STAINLESS STEEL

2) FASTENERS.

NO FASTENERS SUCH AS BOLTS, SCREWS, RIVETS, NUTS AND WASHERS HAVE BEEN SHOWN ON THESE DRAWINGS. THE BUILDER TO CHOOSE ITS OWN PREFERRED TYPE OF FASTENERS.

2) PRESSURE GAUGE.

NO PRESSURE GAUGE IS SHOWN ON THESE DRAWING. THE RANGE OF THE PRESSURE GAUGE TO BE DETERMENT AFTER MAXIMUM BOILER PRESSURE IS ESTABLISHED AND THE AVAILABILITY ON THE MARKET. THE PRESSURE GAUGE IS A PROPRIETY ITEM.

3) PIPING

PREFERABLY ALL PIPING TO BE COPPER. THE PIPING ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE PIPE LENGTH AND ROUTE FROM WORK PIECE. THE PIPE SIZES ARE INDICATIVE ONLY. THE BUILDER TO ESTABLISH THE AVAILABILITY OF THE PIPE SIZE(S) FROM THE LOCAL SUPPLIER(S). THE PIPE NUT(S) TO BE ADJUSTED TO THE USED PIPE SIZE.

4) BOILER.

BEFORE STARTING: THE BOILER AS SHOWN ON THESE DRAWING SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER. THE RUNNING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED. MAKE SURE THE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF MODEL BOILERS. A COMPLIANCE AND TEST CERTIFICATE SHOULD BE OBTAINED.

BOILER INSULATION IS NOT SHOWN ON THESE DRAWINGS.

IF BOILER INSULATION IS PREFERRED THEN THE BUILDER TO SOURCE THE APPROPRIATE MATERIAL AND THICKNESS

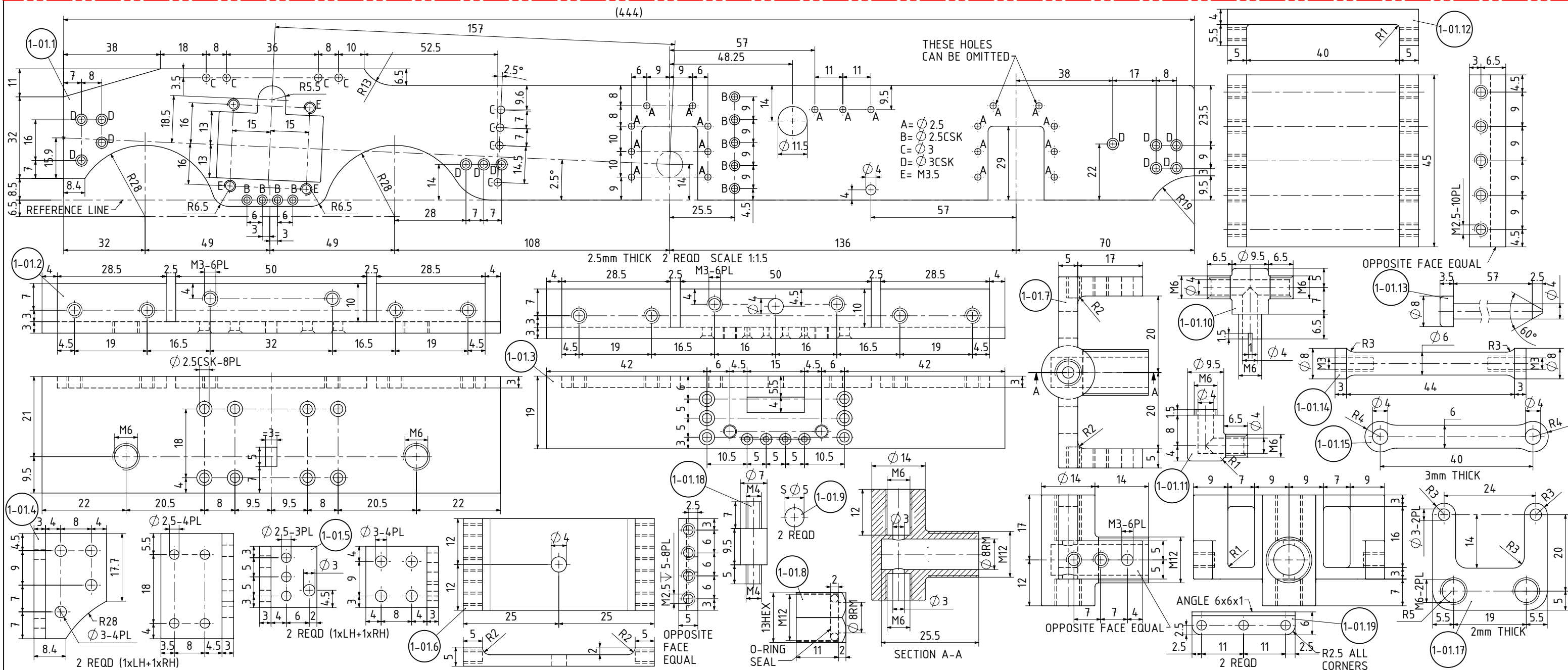
5) HOSES

THE FLEXIBLE HOSES BETWEEN THE LOCOMOTIVE AND THE TENDER ARE NOT SHOWN ON THESE DRAWINGS.

6) ENHANCEMENT

THE APPEARANCE OF THE LOCOMOTIVE COULD BE ENHANCED BY ADDING SOME EXTRA PARTS SUCH AS: LAMP HOLDERS, FRONT AND REAR LIGHTS, FLAG HOLDERS, BRAKE SYSTEM etc.

AS = AS SHOWN
DP = DEEP
DAA= DRILL AFTER ASSEMBLY
D&TAA= DRILL AND TAP AFTER ASSEMBLY
CF = CLOSE FIT (SIZE FOR SIZE)
PF = PRESS FIT
PFAA= PRESS FIT AFTER ASSEMBLY
PCD = PITCH CIRCLE DIAMETER
RM = REAM
HEX = HEXACON, 6SIDED
CP = COMPRESSED
KNL = KNURLED
CSK = COUNTERSINK
PL = PLACES
DWL= DOWEL
SPF= SPOTFACE
(T)HESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD
(T)HESOC=(TAPPED)HOLES EQUALLY SPACED ON
CIRCUMFERENCE
OD = OUTSIDE DIAMETER
ID = INSIDE DIAMETER
MAX/MIN = CRITICAL DIMENSION
[SA-xxx]= SUB ASSEMBLY-xxx



TITLE
A COAL FIRED 4-4-0 STEAM LOCOMOTIVE CALLED "EAGLE" FOR 2.5"/64mm GAUGE

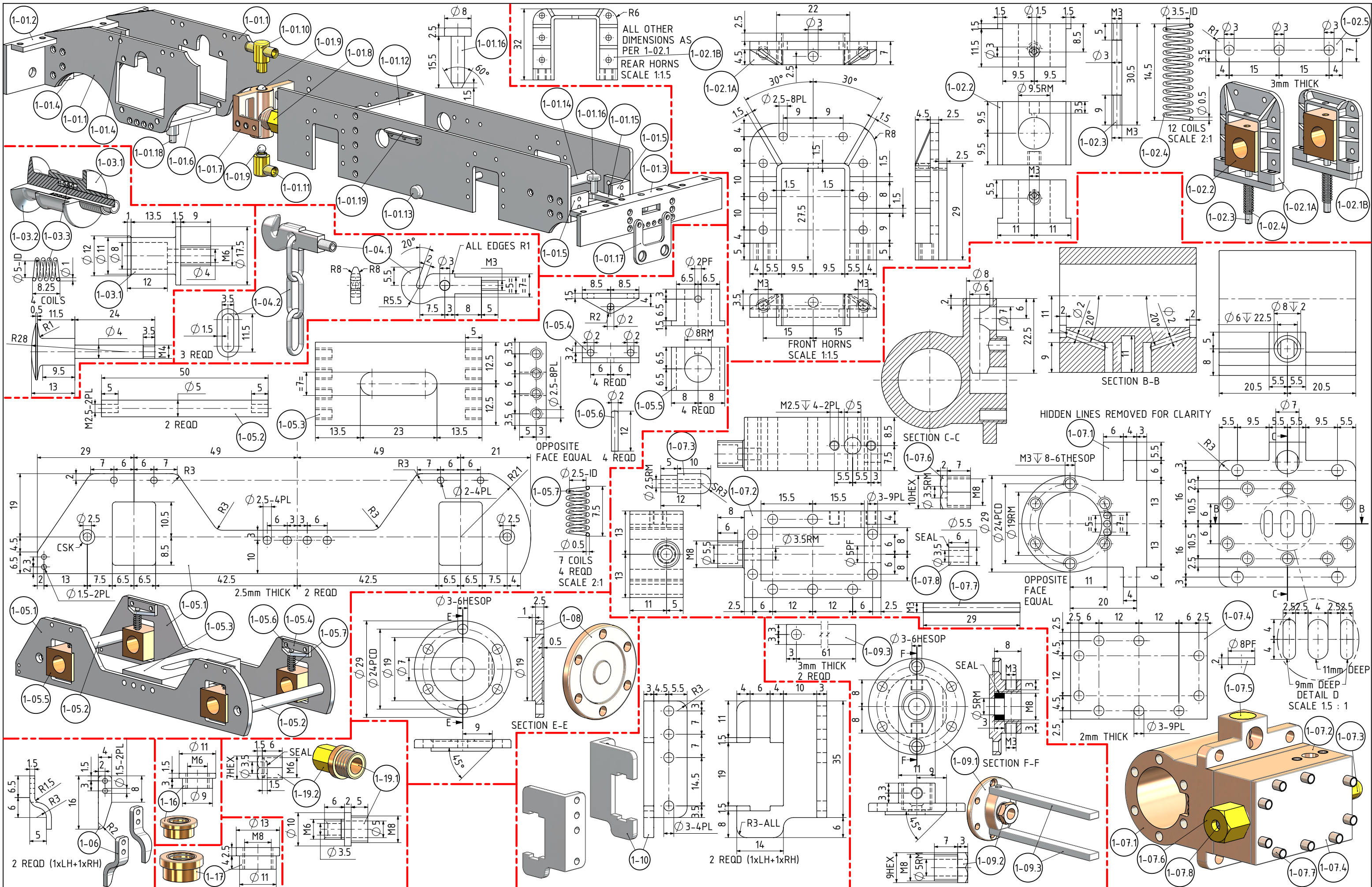
NOTES, PARTS AND ASSEMBLIES

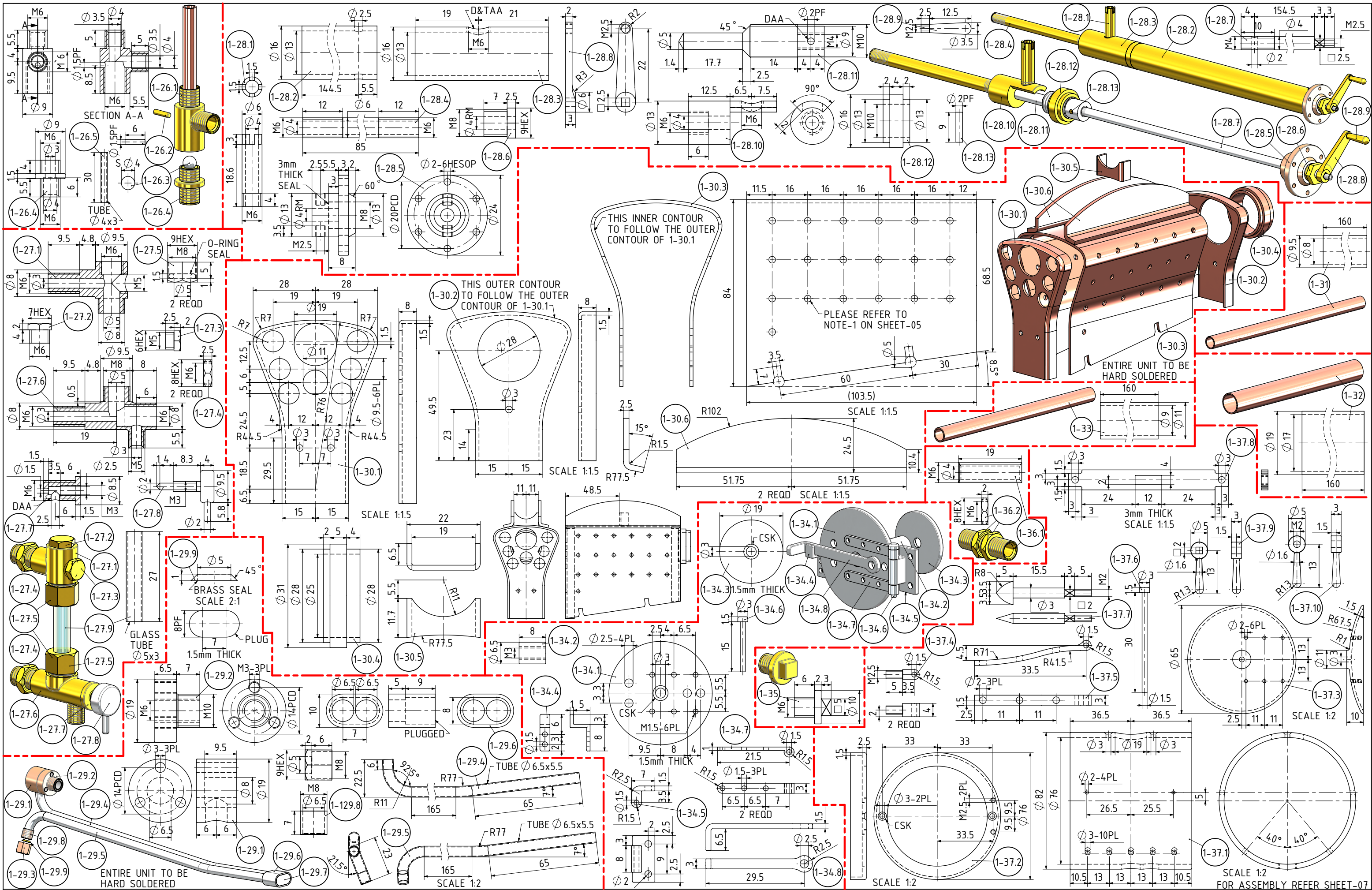
J.A.M. DE WAAL. 12 BRIGHTWELL STREET PAPAKURA
2110. NEW ZEALAND. PHONE: 0064 09 2988815. MOB:
0211791000 E-MAIL: dewaal@xtra.co.nz.

SHIFT: 03 OF 11

A3	No:07B-25-00-SHT03
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DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES





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TITLE
**A COAL FIRED 4-4-0 STEAM LOCOMOTIVE
CALLED "EAGLE" FOR 2.5"/64mm GAUGE**

DRAWING CONTENTS
PARTS AND ASSEMBLIES

PROJECT No 07B-25-00
JDW DRAUGHTING SERVICES
J.A.M. DE WAAL, 12 BRIGHTWELL STREET PAKAPURA
2110, NEW ZEALAND. PHONE: 0064 09 2988815. MOB:
0211791000 E-MAIL: dewaal@xtra.co.nz.

PROJECTION	JDWDS	MODEL SCALE: 1:22.5
DATE	OCTOBER 2024	DWG SCALE: 1:1 @A3 OR AS SHOWN
SHEET: 06 OF 11	A3	Copyright © J.A.M. DE WAAL PAKAPURA NZ
No:07B-25-00-SHT06		

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES

Technical drawing showing two views of thermal insulation components for a boiler:

- Component 1-45.1 (Purple):** A cylindrical sleeve with a flange at one end and a small protrusion at the other. It is labeled "1-45.1" in a circle.
- Component 1-45.2 (Yellow):** A cylindrical sleeve with a flange at one end and a small protrusion at the other. It is labeled "1-45.2" in a circle.

Labels and dimensions:

- THERMAL INSULATION (OPTIONAL)**
- MATERIAL 2mm THICK**
- SNUG FIT AROUND BOILER**
- 1-45.1** (circled label for the purple component)
- 1-45.2** (circled label for the yellow component)

SCALE 1:15

Technical drawing of a mechanical part, showing a side view. The drawing includes dimensions and features:

- Overall width: 53
- Overall height: 25
- Top edge features: 7, 8, 23.5, 4, 6, 12
- Internal features: 1.5-6PL, 3-10PL, CSK, 3-6PL, 2.5-12PL
- Radius features: R24, R5
- Dimensions: 26, 26, 26, 26, 5, 5, 5, 5, 16, 16, 46.25, 46.25, 46.25
- Other dimensions: 7, 7, 7, 7, 10

2.5mm THICK 2 REQD SCALE 1

1-50.7

12.5

7.25

CSK

$\phi 4-2PL$

$\phi 4-4PL$

$\phi 6-2PL$

9.5

29

29

$\phi 3-8PL$

7.7

$\phi 2-2PL$

10

60

33.75

56.75

35.75

29

68

1.5

M3

Exploded view diagram of a 1000W 12VDC power supply unit. The diagram shows the main power supply unit and its associated components with dimensions and part numbers.

Dimensions:

- Top view: 8, 2.5, 2, 7, 6.5, 6.5, 3, 12, 6.5, 10, 6.5.
- Front view: 9, 5, 1.5, 9, 2.5, 8, 8, 8, 2.5, 32, 9 COILS, 11.5, 0.5, 3-ID, 3-PL, 2-4PL, 2-3PL, R3, 1-48.2, 1-51.2, 1-51.1, 1-51.3, 1-51.4, 1-51.6.
- Side view: 40, 1-54.

Part Numbers:

- 1-48.2
- 1-51.1
- 1-51.2
- 1-51.3
- 1-51.4
- 1-51.6
- 1-54

Section A-A:

SECTION A-A

FOR ALL OTHER DIMENSION DETAILS REFER TO 1-49

[illegible]

Technical drawing of the rear view of the machine frame. Dimensions include a total width of 12.5, a height of 61.5, and a depth of 13. A 30° angle is indicated for a sloped support. Part numbers 1-50.2, 1-50.10, 1-50.9, 1-50.11, and 3-9.5 are labeled. A detail view shows a cross-section with dimensions: 2, 2, 4, 7, 1.5, 2, 59.5, 1.5, 3.5, and 2.

Technical drawing of a mechanical part. Dimensions shown include 1-50.5, 1-50.4A, and 1-50.4. A red dashed line indicates a section cut. A detail view shows a cross-section of a hole with a diameter of 2.

Technical drawing of a mechanical assembly, likely a pump or motor component, showing various dimensions and callouts. The drawing includes a cross-section view on the left and a side view on the right. Key dimensions and callouts include:

- Dimensions: 1-51.3, 1-51.6, 1-50.6, 1-50.4 A, 1-50.8, 1-51.5, 2.5PF, 2, 7, 7, 7, 9.5, 22.5, 4, 10, 4, 2.5, 4.5, 2.5, 8, 1, 6, 8, 3.5, 3.5, 1, 10, 8x1-8, 5, 5, 5, 5.
- Callouts: 1-51.3, 1-51.6, 1-50.6, 1-50.4 A, 1-50.8, 1-51.5.
- Features: A dashed red line indicates a specific section or feature. A cross-section view shows internal details like a hole with diameter $\phi 2.5$ and a hole with diameter $\phi 5$.

Technical drawing of a yellow plate with dimensions and callouts. The drawing includes a top view and a side view. The top view shows a rectangular plate with a width of 17 and a length of 17. The side view shows a plate with a thickness of 1.5 and a width of 17. The plate has several holes and a central slot. The holes are labeled with callouts: 1-50.7, 1-50.11, 1-50.4B, 1-50.1, and 1-50.4B. The central slot is labeled with a callout: 1-50.7. The plate is shown in a perspective view, with a yellow color fill. The drawing includes dimensions for the holes and the central slot. The holes are labeled with callouts: 1-50.7, 1-50.11, 1-50.4B, 1-50.1, and 1-50.4B. The central slot is labeled with a callout: 1-50.7. The plate is shown in a perspective view, with a yellow color fill. The drawing includes dimensions for the holes and the central slot.

[illegible]

Technical drawing of the rear view of the chassis. The drawing shows a U-shaped metal piece (1-56) and a rear panel with mounting holes and a cutout. Dimensions are given in millimeters. The rear panel has a central cutout with a radius of R26. The mounting holes are labeled 1-53.1, 1-53.2, and 1-53.3. The dimensions are as follows:

- Overall width: 23
- Overall height: 21
- Top flange width: 6
- Top flange thickness: 2
- Top flange hole diameter: $\phi 2-5PL$
- Top flange hole spacing: 8
- Top flange hole offset: 3.5
- Top flange hole diameter: $\phi 4$
- Top flange hole offset: 6
- Top flange hole diameter: $\phi 6$
- Top flange hole offset: 8
- Top flange hole diameter: $\phi 8$
- Top flange hole offset: 10
- Top flange hole diameter: $\phi 10$
- Top flange hole offset: 12
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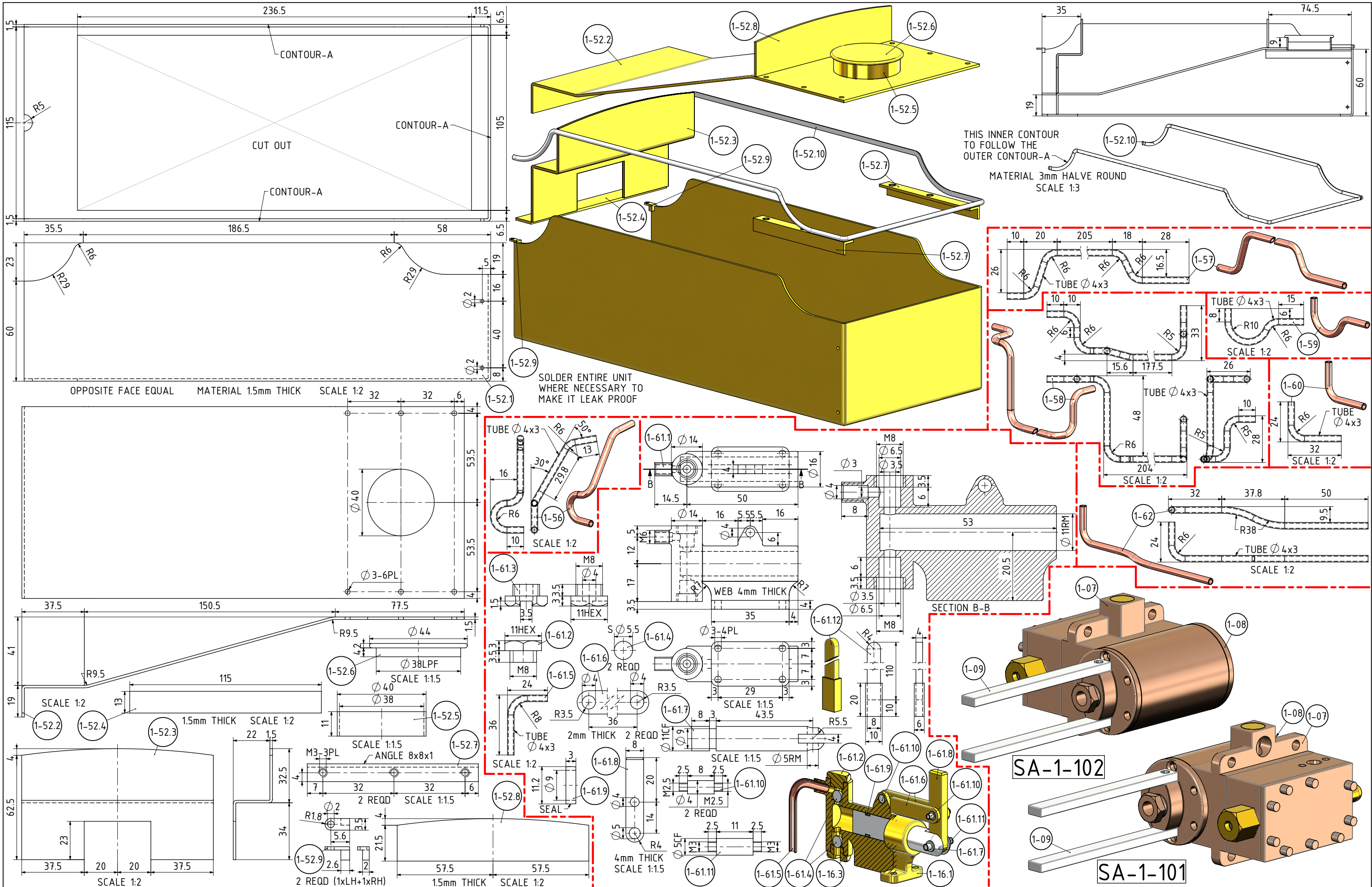
TITLE
A COAL FIRED 4-4-0 STEAM LOCOMOTIVE CALLED "EAGLE" FOR 2.5"/64mm GAUGE

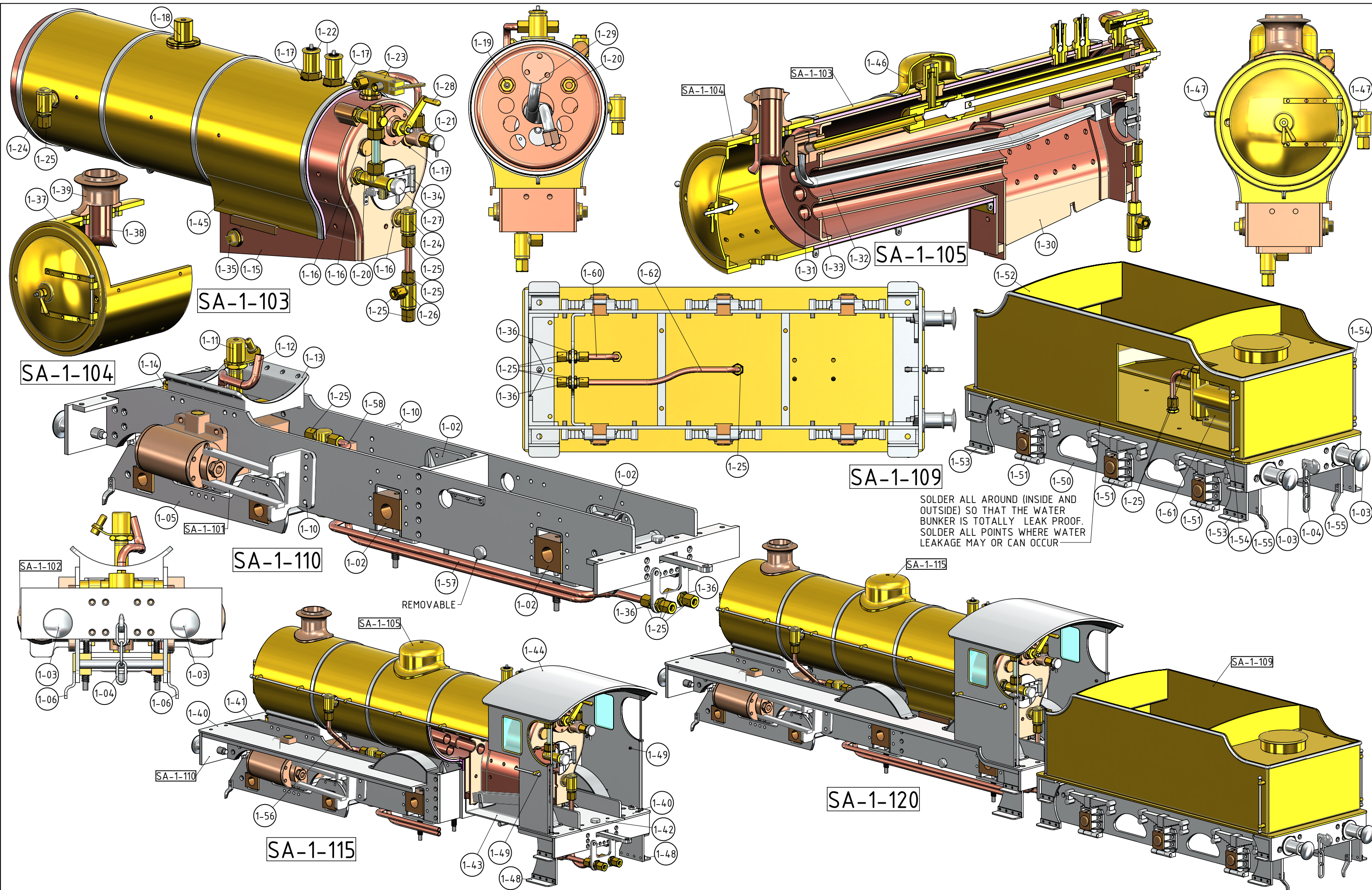
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TITLE
A COAL FIRED 4-4-0 STEAM LOCOMOTIVE
CALLED "EAGLE" FOR 2.5"/64mm GAUGE

DRAWING CONTENTS
PARTS AND ASSEMBLIES

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PROJECTION DATE OCTOBER 2024	JDWDS Copyright © J.A.M. DE WAAL PAKAPURA NZ	MODEL SCALE: 1:22.5 DWG SCALE: 1:1 @A3 OR AS SHOWN No:07B-25-00-SHT-10
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