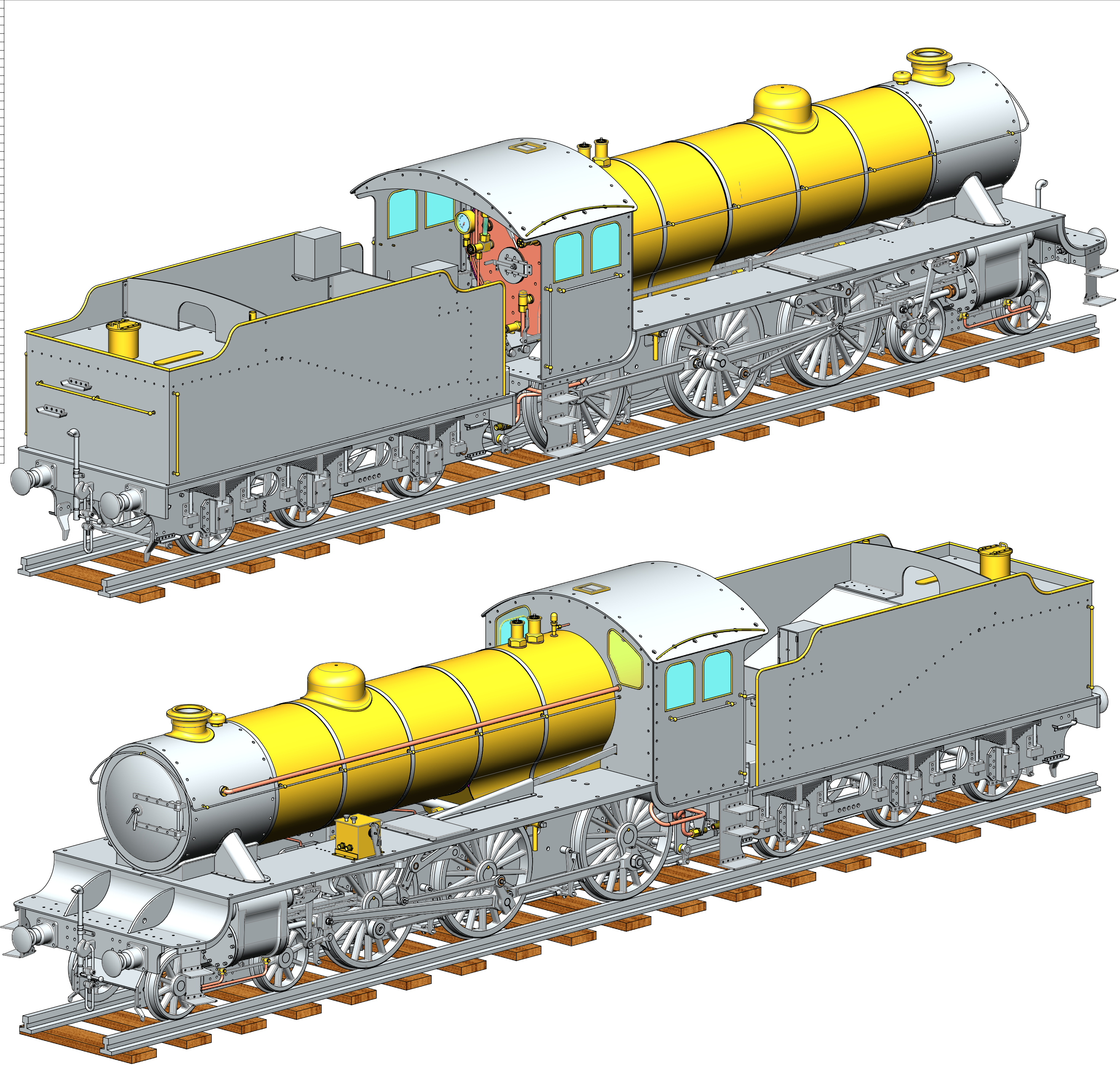


QTY.	PART NUMBER
1	07B-19-00-1-01-UNDER FRAME
2	07B-19-00-1-02-FRAME STRETCHER
1	07B-19-00-1-03-MAIN LONGITUDINAL STRETCHER
1	07B-19-00-1-04-BRAKE STRETCHER
1	07B-19-00-1-05-BOGIE STRETCHER
4	07B-19-00-1-06-MAIN HORN-AXLE BOX
1	07B-19-00-1-06-MAIN HORN-AXLE BOX
1	07B-19-00-1-06-MAIN HORN-AXLE BOX
1	07B-19-00-1-07-MOTION PLATE
1	07B-19-00-1-07-MOTION PLATE
1	07B-19-00-1-08-LINK BRACKET
1	07B-19-00-1-08-LINK BRACKET
1	07B-19-00-1-09-COUPLING HOOK
1	07B-19-00-1-10-COUPLING LINK
2	07B-19-00-1-11-BUFFER
1	07B-19-00-1-12-VACUUM BRAKE PIPE
1	07B-19-00-1-13-SMOKEBOX SADDLE
1	07B-19-00-1-14-RH+LH FOOT PLATE
1	07B-19-00-1-15-REACH ROD COVER
1	07B-19-00-1-16-FRONT STEP
1	07B-19-00-1-16-FRONT STEP
1	07B-19-00-1-17-REAR STEP
1	07B-19-00-1-17-REAR STEP
3	07B-19-00-1-18-BRAKE HANGER+PIN
3	07B-19-00-1-18-BRAKE HANGER+PIN
1	07B-19-00-1-19-BRAKE BEAMS
1	07B-19-00-1-19-BRAKE BEAMS
1	07B-19-00-1-19-BRAKE BEAMS
6	07B-19-00-1-20-BRAKE SHOE
1	07B-19-00-1-21-BRAKE BEAM ROD TYPE-1
2	07B-19-00-1-22-BRAKE BEAM ROD TYPE-2
1	07B-19-00-1-23-BRAKE BEAM ROD TYPE-3
1	07B-19-00-1-23-BRAKE BEAM ROD TYPE-3
1	07B-19-00-1-24-BRAKE SHAFT+LEVERS
1	07B-19-00-1-25-STEAM BRAKE CYLINDER
1	07B-19-00-1-26-BRAKE CYLINDER PISTON
1	07B-19-00-1-27-CYLINDER
1	07B-19-00-1-27-CYLINDER
2	07B-19-00-1-28-CYLINDER FRONT COVER
1	07B-19-00-1-29-CYLINDER REAR COVER
1	07B-19-00-1-29-CYLINDER REAR COVER
1	07B-19-00-1-30-VALVE STEAM CHEST
1	07B-19-00-1-30-VALVE STEAM CHEST
2	07B-19-00-1-31-VALVE SPINDLE GUIDE BRACKET
2	07B-19-00-1-32-CYLINDER DRAIN COCK
2	07B-19-00-1-32-CYLINDER DRAIN COCK
2	07B-19-00-1-33-DRAIN COCK CONNECTING LINK
1	07B-19-00-1-34-DRAIN COCK OPERATING SHAFT
1	07B-19-00-1-35-DRAIN COCK REACH ROD SHAFT
1	07B-19-00-1-36-OPERATING SHAFT LINK
1	07B-19-00-1-37-DRAIN COCK OPERATING LEVER
1	07B-19-00-1-38-DRAIN COCK REACH ROD
1	07B-19-00-1-39-REVERSING STAND
6	07B-19-00-1-40-OIL POT
2	07B-19-00-1-41-OILPOTS DOWN PIPES
2	07B-19-00-1-41-OILPOTS DOWN PIPES
2	07B-19-00-1-41-OILPOTS DOWN PIPES
1	07B-19-00-1-42-MECHANICAL LUBRICATOR
1	07B-19-00-1-43-LUBRICATOR SPRING
1	07B-19-00-1-44-FRONT BOGIE FRAME
4	07B-19-00-1-45-BOGIE AXLE BLOCK
1	07B-19-00-1-46-RAIL SCOOP
1	07B-19-00-1-46-RAIL SCOOP
3	07B-19-00-1-47-PIPE CONNECTOR NIPPLE
1	07B-19-00-1-48-EXHAUST PIPE
2	07B-19-00-1-49-STEAM INLET PIPE
1	07B-19-00-1-50-SMOKEBOX
1	07B-19-00-1-51-SMOKEBOX DOOR LOCK
1	07B-19-00-1-52-CHIMNEY
2	07B-19-00-1-53-INLET STEAM PIPE COVER
1	07B-19-00-1-54-BOILER
1	07B-19-00-1-55-FIREBOX
18	07B-19-00-1-56-SMALL BOILER TUBE
4	07B-19-00-1-57-LARGE BOILER TUBE
4	07B-19-00-1-58-BACKHEAD BUSH-1
1	07B-19-00-1-60-BACKHEAD BUSH-3
1	07B-19-00-1-61-FRONT BLOWER FITTING
1	07B-19-00-1-62-SOLID BOILER STAY
1	07B-19-00-1-63-BACKHEAD BUSH-4
1	07B-19-00-1-64-BLOWER STAY
3	07B-19-00-1-65-BLOW DOWN VALVE
2	07B-19-00-1-66-CHECK VALVE
1	07B-19-00-1-67-INTERMEDIATE CHECK VALVE
1	07B-19-00-1-68-STEAM SUPPLY MANIFOLD
3	07B-19-00-1-69-ON-OFF VALVE
1	07B-19-00-1-70-WHISTLW VALVE
1	07B-19-00-1-71-BLOWER VALVE
1	07B-19-00-1-72-BLOWER PIPE
2	07B-19-00-1-73-SAFETY VALVE
1	07B-19-00-1-74-WATER LEVEL GAUGE
1	07B-19-00-1-75-REGULATOR
1	07B-19-00-1-76-STEAM SUPPLY DISTRIBUTION BOX
1	07B-19-00-1-77-INNER SUPERHEATER PIPE
1	07B-19-00-1-77-INNER SUPERHEATER PIPE
1	07B-19-00-1-78-OUTER SUPERHEATER PIPE
1	07B-19-00-1-78-OUTER SUPERHEATER PIPE
1	07B-19-00-1-79-SUPERHEATER DISTRIBUTION TUBE
1	07B-19-00-1-80-BLOWER PIPE
1	07B-19-00-1-81-DUMMY INJECTOR
1	07B-19-00-1-81-DUMMY INJECTOR
1	07B-19-00-1-82-INJECTOR WATER SUPPLY PIPE
1	07B-19-00-1-82-INJECTOR WATER SUPPLY PIPE
1	07B-19-00-1-83-LH-CHECK VALVE PIPE
1	07B-19-00-1-84-HAND PUMP WATER SUPPLY PIPE
1	07B-19-00-1-85-RH-INJECTOR WATER OUT PIPE
1	07B-19-00-1-86-PRESSURE GAUGE FOR 7.25-184mm GAUGE
1	07B-19-00-1-87-DOME COVER
1	07B-19-00-1-88-FIRE DOOR
1	07B-19-00-1-89-ASH PAN
1	07B-19-00-1-90-DAMPER OPERATING LEVER
1	07B-19-00-1-91-DRIVERS CABIN
1	07B-19-00-1-92-SECONDARY FOOTPLATE
1	07B-19-00-1-93-STEAM BRAKE VALVE
1	07B-19-00-1-94-BRAKE STEAM SUPPLY PIPE
1	07B-19-00-1-95-DUMMY WHISTLE
1	07B-19-00-1-96-EXTERNAL UNKNOWN BOILER PIPE
1	07B-19-00-1-97-BOILER HAND RAIL
4	07B-19-00-1-98-CABIN HAND RAIL
1	07B-19-00-1-99-CABIN WHEEL COVER
1	07B-19-00-1-99-CABIN WHEEL COVER
1	07B-19-00-2-01-LEADING COUPLED WHEEL SET
1	07B-19-00-2-02-DRIVING WHEEL SET
1	07B-19-00-2-03-TRAILING COUPLED WHEEL SET
2	07B-19-00-2-04-BOGIE WHEEL SET
1	07B-19-00-2-05-COUPLING RODS

QTY.	PART NUMBER
1	07B-19-00-2-05-COUPLING RODS
1	07B-19-00-2-06-PISTON+CROSSHEAD
1	07B-19-00-2-06-PISTON+CROSSHEAD
1	07B-19-00-2-07-CON-ROD
1	07B-19-00-2-07-CON-ROD
2	07B-19-00-2-08-POPPET SLIDE VALVE
1	07B-19-00-2-09-COMBINATION LEVER
1	07B-19-00-2-09-COMBINATION LEVER
2	07B-19-00-2-10-UNION LINK
2	07B-19-00-2-11-EXPANSION LINK
2	07B-19-00-2-12-ECCENTRIC ROD
1	07B-19-00-2-13-SCREW REVERSER SCREW SPINDLE
1	07B-19-00-2-14-SCREW REVERSER NUT
1	07B-19-00-2-15-WEIGHSHAFT
1	07B-19-00-2-16-REACH ROD
2	07B-19-00-2-17-DIE BLOCK FOR EXPANSION LINK
2	07B-19-00-2-18-DIE BLOCK FOR RADIUS ROD
1	07B-19-00-2-19-RADIUS ROD
1	07B-19-00-2-19-RADIUS ROD
1	07B-19-00-2-20-OILER SWING ARM
1	07B-19-00-2-21-OILER CON-ROD
1	07B-19-00-3-01-UNDER FRAME
12	07B-19-00-3-02-AXLEBOX GUIDE
6	07B-19-00-3-03-AXLE BOX
6	07B-19-00-3-04-AXLE BOX LEAF SPRING
2	07B-19-00-3-05-BUFFER
1	07B-19-00-3-06-COUPLING LINK
1	07B-19-00-3-07-COUPLING HOOK
1	07B-19-00-3-08-VACUUM BRAKE PIPE
3	07B-19-00-3-09-TENDER WHEEL SET
6	07B-19-00-3-10-BRAKE SHOE HANGER
6	07B-19-00-3-11-BRAKE SHOE
1	07B-19-00-3-12-LEADING BRAKE BEAM
1	07B-19-00-3-13-CENTRE BRAKE BEAM
1	07B-19-00-3-14-TRAILING BRAKE BEAM
1	07B-19-00-3-15-BRAKE SHAFT
2	07B-19-00-3-16-LEADING BRAKE ROD
2	07B-19-00-3-17-CENTRE BRAKE ROD
2	07B-19-00-3-18-TRAILING BRAKE ROD
1	07B-19-00-3-19-FOOT PLATE+COAL BUNKER
1	07B-19-00-3-20-REMOVABLE TOP PLATE
1	07B-19-00-3-21-TOOL CABINET
1	07B-19-00-3-21-TOOL CABINET
1	07B-19-00-3-22-BOTTOM WATER FILTER
1	07B-19-00-3-22-BOTTOM WATER FILTER
1	07B-19-00-3-23-WATER SUPPLY VALVE
1	07B-19-00-3-23-WATER SUPPLY VALVE
1	07B-19-00-3-24-HAND PUMP BOTTOM WATER CONNECTOR
1	07B-19-00-3-25-HAND PUMP
1	07B-19-00-3-26-HAND BRAKE COLUMN
2	07B-19-00-3-27-SIDE HAND RAIL
1	07B-19-00-3-28-REAR HAND RAIL
1	07B-19-00-M184mm-RAIL
2	07B-19-00-1-100-CYLINDER DRAIN COCK PIPE

ADDITIONAL NOTES ABOUT THESE DRAWINGS:
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
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. THE PIPE NUTS SHOWN ON THESE DRAWINGS ARE INDICATIVE ONLY.
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 SHOWN ON THESE DRAWINGS. THE BOILER INSULATION IS INDICATIVE ONLY PREFERRED, THE BUILDER TO SOURCE THE APPROPRIATE MATERIAL AND THICKNESS THE BOILER STRAPS DIAMETER SHOULD BE ADJUSTED ACCORDINGLY.
5) DUMMY PARTS.
IF PREFERRED SOME OF THE DUMMY PARTS COULD BE REPLACED WITH REAL OPERATING PART(S). THE BUILDER TO DESIGN THE PART OR ALTERNATIVELY PURCHASE.
6) ENHANCEMENT
THE APPEARANCE OF THE LOCOMOTIVE COULD BE ENHANCED BY ADDING SOME EXTRA PARTS SUCH AS: LAMP HOLDERS, FRONT AND REAR LIGHTS, FLAG/SIGNAL HOLDERS.
THE FOLLOWING PARTS/COMPONENTS ARE NOT SHOWN ON THESE DRAWINGS:
1) SOME STEAM SUPPLY PIPING REFER DRAWING 07B-19-00-20
2) SOME WATER SUPPLY PIPING REFER DRAWING 07B-19-00-20
3) FLEXIBLE CONNECTION HOSES BETWEEN LOCOMOTIVE AND TENDER.
4) DAMPER CONTROL ROD
5) PIPING FROM MECHANICAL OILER TO CYLINDER STEAM INLET PIPES
THE COMPONENTS WHICH ARE NOT SHOWN ON THESE DRAWINGS BUT ARE NECESSARY SHOULD BE DESIGNED BY BUILDER AND BEING INSTALLED



NOTES: THE ORIGINAL DRAWINGS WERE GIVEN TO ME MANY YEARS AGO. THE TITLE OF THE ORIGINAL DRAWINGS WAS "PLAN: SPRINGBOK BY MARTIN EVANS"

TITLE
A L.N.E.R. CLASS B1 STEAM LOCOMOTIVE 4-6-0
CALLED "SPRINGBOK" FOR 7.25inch/184mm GAUGE

DRAWING CONTENTS
GENERAL ARRANGEMENT, ISOMETRIC VIEWS
BILL OF MATERIALS AND NOTES

PROJECT No 07B-19-00
JDW DRAUGHTING SERVICES
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PROJECTION		JDWDS	MODEL SCALE: 1:7.8
DATE	APRIL 2023	Copyright © J.A.M. DE WAAL PAPA KURA NZ	DWG SCALE: NTS @A2 OR AS SHOWN
SHEET: 02 OF 20	A2	No:07B-19-00-SHT-02	

PLEASE NOTE THIS IS AN "A2" SIZE SHEET

DRAWINGS ARE FOR PERSONAL USE ONLY NOT FOR COMMERCIAL PURPOSES