1 07A-09-00-5-01-FLOOR INSULATION LINING 1 07A-09-00-1-01-SIDE FRAME O. ALL DRAWINGS ARE IN METRIC MEASUREMENTS 1. ALL ENGINEERING PRACTICES SHALL BE APPLIED WITH REGARDS TO HOLE AND SHAFT TOLERANCES 07A-09-00-5-02-CABIN FLOOR PLATE 07A-09-00-1-01-SIDE FRAME 1 07A-09-00-5-03-CABIN FRONT PLATE 1 07A-09-00-1-02-FRONT BUFFER BEAM 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) 1 07A-09-00-5-04-CABIN REAR PLATE 1 07A-09-00-1-03-REAR BUFFER BEAM 4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE. 1 07A-09-00-5-05-CABIN SIDE PLATE 2 07A-09-00-1-04-BUFFER TYPE-1 5. ALL CONNECTIONS/JOINTS WHICH HAVE STEAM PRESSURE APPLIED TO IT SHALL BE SILVER/HARD SOLDERED. 07A-09-00-5-05-CABIN SIDE PLATE 2 07A-09-00-1-05-BUFFER TYPE-2 6. COMPRESSION SPRINGS ARE DRAWN IN COMPRESSED STATE (CP), UNCOMPRESSED STATE IS APPROX 40% TO 60% LONGER THEN COMPRESSED STATE. 1 07A-09-00-5-06-LIQUID CONTAINER REAR PLATE 2 07A-09-00-1-06-PULLING HOOK 7. WHERE PREFERRED SCREW OR RIVETED CONNECTIONS CAN BE OMITTED AND PARTS CAN BE BONDED TOGETHER BY USING EITHER HIGH STRENGTH GLUE, EPOXY 1 07A-09-00-5-08-CABIN ROOF 1 07A-09-00-1-07-PORT BLOCK MOUNTING BRACKET 8 07A-09-00-5-09-CABIN HAND RAIL SUPPORT 1 | 07A-09-00-1-08-PORT BLOCK 8. PARTS WHICH ARE DIRECTLY EXPOSED TO STEAM AND/OR WATER SHOULD BE CONSTRUCTED USING NON-FERROUS OR NON CORROSIVE MATERIAL SUCH AS BRASS, 4 07A-09-00-5-10-CABIN HAND RAIL 2 07A-09-00-5-11-NAME PLATE 1 07A-09-00-1-09-REAR TOP CROSS BRACE 1 07A-09-00-1-10-FRONT BOTTOM CROSS BRACE 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 1 07A-09-00-1-11-BOILER REAR MOUNTING PLATE 1 07A-09-00-64mm-RAIL 10. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER. PART NUMBER 3 07A-09-00-1-12-LARGE BURNER THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER 07A-09-00-M2.5x6 ROUND HEAD SCREW 1 07A-09-00-1-13-SMALL BURNER 12. USE LOCTITE, ON SCREW OR PRESS FIT CONNECTIONS OR SURFACES, WERE DEEMED NECESSARY TO PREVENT PARTS FROM LOOSENING. 64 07A-09-00-M2x2-ROUND HEAD RIVET 1 07A-09-00-1-14-FUEL SUPPLY TANK 13. WASHER SHALL BE USED WHERE DEEMED NECESSARY. 1 07A-09-00-5-07-LIQUID CONTAINER TOP PLATE 1 07A-09-00-1-15-BURNER SUPPLY PIPE 14. IN QUIRE AT THE APPROPRIATE AUTHORITIES WHETHER OR NOT THIS BOILER REQUIRES A PRESSURE TEST CERTIFICATE 46 07A-09-00-M3 NUT 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 07A-09-00-1-16-FUEL SUPPLY TANK VALVE 1 07A-09-00-M3x4 GRUB SREW 2 07A-09-00-1-17-FRONT FOOT PLATE BRACKET **IMPORTANT NOTE:** 10 07A-09-00-M3x5 C-SINK SCREW 2 07A-09-00-1-18-REAR FOOT PLATE BRACKET 1 07A-09-00-1-19-EXHAUST STEAM BLOCK 11 07A-09-00-M3x6 ROUND HEAD SCREW BEFORE STARTING: IT IS STRONGLY ADVISED THAT THE BOILER AS SHOWN ON THESE 20 07A-09-00-M3x8 ROUND HEAD SCREW PART NUMBER DRAWINGS SHOULD BE INSPECTED BY AN AUTHORISED PROFESSIONAL ENGINEER AND THE 4 07A-09-00-M3x10 C-SINK SCREW 2 07A-09-00-2-01-WHEEL AXLE+WHEELS WORKING AND MAXIMUM BOILER PRESSURE TO BE CALCULATED. 14 07A-09-00-M3x10 ROUND HEAD SCREW 1 07A-09-00-2-01-WHEEL AXLE+WHEELS MAKE SURE THE BOILER FULLY COMPLIES WITH THE LOCAL RULES AND REGULATIONS OF 1 07A-09-00-M3x11 GRUB SREW 1 07A-09-00-2-02-DRIVEN WHEEL AXLE GEAR WHEEL MODEL BOILERS. 6 07A-09-00-M4 NUT 2 07A-09-00-2-03-COUPLING ROD 1 07A-09-00-2-04-CRANK PLATE+GEAR 1 07A-09-00-2-05-CYLINDER 07A-09-00-M4 WASHER A COMPLIANCE AND SAFETY/TEST CERTIFICATE SHOULD BE OBTAINED. 10 07A-09-00-M4x8 ROUND HEAD SCREW 2 07A-09-00-M5 NUT 1 07A-09-00-2-06-PISTON 1 07A-09-00-M5x6 ROUND HEAD SCREW 1 07A-09-00-2-07-REVERSER TOP 07A-09-00-M5x22 ROUND HEAD SCREW 1 07A-09-00-2-08-PRESSURE SPRING 1 07A-09-00-M6x4 PLUG SREW 1 07A-09-00-2-09-REVERSER LOCKING SCREW 4 07A-09-00-M8 NUT SPECIAL PART NUMBER 15 07A-09-00-M2x4 ROUND HEAD SCREW 1 07A-09-00-3-01-F00TPLATE 4 07A-09-00-3-02-STEPS 1 07A-09-00-3-03-0ILER HOUSING 3 07A-09-00-3-04-LANTARN 1 07A-09-00-3-05-AIR TANK OTHER ABBREVIATIONS 1 07A-09-00-3-06-OILER TO PORT BLOCK PIPE 1 07A-09-00-3-07-FLAME PROTECTOR DAA= DRILL AFTER ASSEMBLY 1 07A-09-00-3-08-SMOKE BOX D&TAA= DRILL AND TAP AFTER 1 07A-09-00-3-09-SMOKE BOX DOOR ASSEMBLY 1 07A-09-00-3-10-SMOKE BOX DOOR LOCKING SCREW CF = CLOSE FIT (SIZE FOR SIZE) 1 07A-09-00-3-11-LH-BOILER SIDE COVER PF = PRESS FIT 1 07A-09-00-3-12-RH-BOILER SIDE COVER PFAA= PRESS FIT AFTER ASSEMBLY 1 07A-09-00-3-13-BLOWER PIPE PCD = PITCH CIRCLE DIAMETER 1 07A-09-00-3-14-FWD-REV BRACKE RM = REAMPART NUMBER HEX = HEXACON, 6SIDED CP = COMPRESSED 1 07A-09-00-4-01-BOILER SHELL 1 07A-09-00-4-02-STEAM COLLECTOR SCREW KNL = KNURLED CSK = COUNTERSINK 1 07A-09-00-4-03-SADDLE TANK COVER PL = PLACES 10 07A-09-00-4-04-HAND RAIL SUPPORT DWL= DOWEL 1 07A-09-00-4-05-FRONT HAND RAIL (T)HESOP=(TAPPED)HOLES EQUALLY 2 07A-09-00-4-06-SIDE HAND RAIL SPACED ON PCD 1 07A-09-00-4-07-CHIMNEY (T)HESOC=(TAPPED)HOLES EQUALLY 1 07A-09-00-4-08-STEAM DOME SPACED ON CIRCUMFERENCE 1 07A-09-00-4-09-STEAM MANIFOLD SA-xxx = SUB ASSEMBLY-xxx 1 07A-09-00-4-10-BLOWER VALVE 1 07A-09-00-4-11-BLOWER VALVE PIPE 1 07A-09-00-4-12-STEAM SUPPLY VALVE 07A-09-00-4-13-M8x5x8 PIPE NUT 1 07A-09-00-4-14-STEAM SUPPLY VALVE SPINDLE NUT MATERIAL ABBREVIATIONS: 1 07A-09-00-4-15-STEAM SUPPLY PIPE ALU = ALUMINIUM BRS = BRASS 1 07A-09-00-4-16-PRESSURE GAUGE 1 07A-09-00-4-17-SAFETY VALVE BRZ = BRONZE OR GUNMETAL (BRZ/GM) 1 07A-09-00-4-18-FEED WATER SUPPLY RING = CAST IRON CU = COPPER 3 07A-09-00-4-19-M6x4x7 PIPE NUT 1 07A-09-00-4-20-EXT FD PMP CONNECTOR HOUSING GRA = GRAPHITE MS = MILD STEEL/BRIGHT MILD STEEL 1 07A-09-00-4-21-M8x8 STOP NUT S/S = SILVER STEEL OR STAINLESS STEEL SPS = SPRING STEEL PEEK= POLYETHER ETHER KETONE SYN = SYNTHETIC MATERIAL SUCH AS VETON, NYLON, TEFLON OR RUBBER IN GENERAL SYNTHETIC MATERIALS SOULD BE ABLE TO WITHSTAND THE HEAT AND PRESSURE(S) APPLIED TO THEM. nnn/nnn MEANS THAT EITHER MATERIAL CAN BE USED NOTES: THE ORIGINAL DRAWINGS WERE PUBLISHED IN A MODEL ENGINEERING MAGAZINE "DE MODELBOUWER" OF 1987. THE ARTICLE TITLE WAS "N.S.8800" BY J.Q.M. & F.Q.F. VEROUDEN, ZEVENAAR.MODEL SCALE WAS 1:30 ADAPTED FOR GAUGE 1 (45mm) JDWDS MODEL SCALE: 1:16 (64mm/2.5" GAUGE PROJECT No 07A-09-00 A MODEL OF A SADDLE TANK STEAM LOCO ISOMETRIC VIEW, BILL OF MATERIAL AND NOTES DWG SCALE: 1:1 @A3 OR AS SHOWN JDW DRAUGHTING SERVICES DATE NOVEMBER-2020 Copyright® J.A.M. DE WAAL PAPAKURA NZ J.A.M. DE WAAL. 12 BRIGHTWELL STREET PAPAKURA 2110. OF THE N.S. SERIES 8800 (SPIRIT FIRED) NEW ZEALAND. PHONE: 0064 09 2988815. MOB: 0211791000 SHEET: 02 OF 09 A3 No: 07A-09-00-SHT02 DRAWINGS ARE FOR PERSONAL ÜSE ONLY NOT FÖR CÖMMERCIAL PURPOSES