

QTY.	PART NUMBER
1	07B-20-00-1-01-UNDER FRAME
6	07B-20-00-1-02-HORNBLOCK-AXLEBOX
1	07B-20-00-1-03-BOGIE FRAME
2	07B-20-00-1-04-BOGIE EQUALIZER BAR
2	07B-20-00-1-05-CYLINDER BLOCK
1	07B-20-00-1-06-CYLINDER FRONT COVER
1	07B-20-00-1-06-CYLINDER FRONT COVER
1	07B-20-00-1-07-CYLINDER REAR COVER
1	07B-20-00-1-07-CYLINDER REAR COVER
2	07B-20-00-1-08-STEAM CHEST LINER
1	07B-20-00-1-09-MOTION BRACKET
1	07B-20-00-1-09-MOTION BRACKET
1	07B-20-00-1-10-GEAR FRAME
1	07B-20-00-1-10-GEAR FRAME
1	07B-20-00-1-11-REVERSER CONTROL STAND
1	07B-20-00-1-12-EXHAUST-BLOWER
1	07B-20-00-1-13-CYLINDER DRAIN COCK
1	07B-20-00-1-13-CYLINDER DRAIN COCK
2	07B-20-00-1-14-BUFFER
1	07B-20-00-1-15-DRAWHOOK
1	07B-20-00-1-16-DRAIN COCK OPERATING HANDLE
1	07B-20-00-1-17-TUBE HOLDING CLIP
1	07B-20-00-1-18-MECHANICAL FEED PUMP
1	07B-20-00-1-19-MECHANICAL LUBRICATOR
1	07B-20-00-1-20-MECH. LUBE SPRING-1
3	07B-20-00-1-21-BRAKE HANGER
3	07B-20-00-1-21-BRAKE HANGER
6	07B-20-00-1-22-BRAKE SHOE
1	07B-20-00-1-22-BRAKE CYLINDER GEAR FRAME
1	07B-20-00-1-24-LEADING BRAKE BEAM
1	07B-20-00-1-25-MIDDLE BRAKE BEAM
1	07B-20-00-1-26-LEADING BRAKE PULL ROD
2	07B-20-00-1-27-MIDDLE BRAKE PULL ROD
2	07B-20-00-1-28-REAR BRAKE PULL ROD
1	07B-20-00-1-29-BRAKE CYLINDER
1	07B-20-00-1-30-BRAKES OPERATING SHAFT
2	07B-20-00-1-31-PIPE CONNECTION BRACKET
2	07B-20-00-1-32-STEAM DELIVERY PIPE
1	07B-20-00-1-33-SMOKEBOX SADDLE
1	07B-20-00-1-34-OIL CHECK VALVE+PIPING
2	07B-20-00-1-35-AIR BRAKE PIPE
1	07B-20-00-1-36-NON-RETRUN VALVE
1	07B-20-00-1-37-TUBE HOLDING CLIP FRONT
1	07B-20-00-1-38-DRAIN COCK OPERATINGSHAFT
1	07B-20-00-1-39-TUBE FOR BOWDEN WIRE
1	07B-20-00-1-40-MECH FEED PUMP INLET PIPE
1	07B-20-00-1-41-BYPASS VALVE
1	07B-20-00-1-42-BYPASS DELIVERY PIPE
1	07B-20-00-1-43-STEAM OPERATED INJECTOR
1	07B-20-00-1-44-ASHPAN+GRATE
1	07B-20-00-1-45-ASHPAN PIN
2	07B-20-00-1-46-FRONT STEPS
1	07B-20-00-1-47-REAR STEPS
1	07B-20-00-1-47-REAR STEPS

QTY.	PART NUMBER
1	07B-20-00-1-48-BOGIE FRONT RAIL GUARD
1	07B-20-00-1-48-BOGIE FRONT RAIL GUARD
2	07B-20-00-2-01-MAIN WHEEL SET
1	07B-20-00-2-01-MAIN WHEEL SET
2	07B-20-00-2-02-LEADING WHEEL SET CRANK PIN
2	07B-20-00-2-03-DRIVING WHEEL SET CRANK PIN
2	07B-20-00-2-04-TRAILING WHEEL SET CRANK PIN
2	07B-20-00-2-05-BOGIE WHEEL SET
1	07B-20-00-2-06-MECHANICAL LUBRICATOR ECCENTRIC
1	07B-20-00-2-07-MECHANICAL FEED PUMP ECCENTRIC
2	07B-20-00-2-08-RETURN CRANK
1	07B-20-00-2-09-COUPLING RODS
1	07B-20-00-2-09-COUPLING RODS
1	07B-20-00-2-10-PISTON+CROSSHEAD
1	07B-20-00-2-10-PISTON+CROSSHEAD
1	07B-20-00-2-11-CON-ROD
1	07B-20-00-2-11-CON-ROD
1	07B-20-00-2-12-REVERSING SHAFT
2	07B-20-00-2-13-SPOOL VALVE
2	07B-20-00-2-14-UNION LINK
2	07B-20-00-2-15-COMBINATION LEVER
2	07B-20-00-2-16-EXPANSION LINK
2	07B-20-00-2-17-ECCENTRIC ROD
2	07B-20-00-2-18-RADIUS ROD
2	07B-20-00-2-19-RADIUS ROD DIE BLOCK
4	07B-20-00-2-20-EXPANSION LINK DIE BLOCK
1	07B-20-00-2-21-REVERSING SLIDER
1	07B-20-00-2-22-REVERSING SPINDLE
1	07B-20-00-2-23-REVERSING REACH ROD
1	07B-20-00-2-24-FEED PUMP PLUNGER
1	07B-20-00-2-25-FEED PUMP ECCENTRIC STRAP
1	07B-20-00-2-26-LUBRICATOR SWING ARM
1	07B-20-00-2-27-MECH. LUBE SPRING-2

QTY.	PART NUMBER
1	07B-20-00-2-28-LUBRICATOR ECCENTRIC STRAP
3	07B-20-00-2-29-TENDER WHEEL SET
1	07B-20-00-3-01-BOILER SHELL
1	07B-20-00-3-02-FIRE BOX
3	07B-20-00-3-03-BOILER LONG STAY
1	07B-20-00-3-04-BOILER BLOWER PIPE
5	07B-20-00-3-05-BOILER CROSS STAY
1	07B-20-00-3-06-STEAM SUPPLY TURRET
1	07B-20-00-3-07-SNIFFER
1	07B-20-00-3-08-CHIMNEY SURROUND
1	07B-20-00-3-09-SMOKE BOX DOOR
1	07B-20-00-3-10-REGULATOR BODY
1	07B-20-00-3-11-STEAM DISTRIBUTION UNIT
1	07B-20-00-3-12-REGULATOR LEVER-1
1	07B-20-00-3-13-REGULATOR OPERATOR LEVER-2
1	07B-20-00-3-14-REGULATOR SLIDE VALVE
1	07B-20-00-3-15-REGULATOR DOME COVER
1	07B-20-00-3-16-REGULATOR OUTER DOME
2	07B-20-00-3-17-SAFETY VALVE
4	07B-20-00-3-18-BUSH 14xM10x18
1	07B-20-00-3-19-BUSH 16xM12x22
1	07B-20-00-3-20-PRESSURE GAUGE
1	07B-20-00-3-21-STEAM INJECTOR VALVE
1	07B-20-00-3-22-FIRE DOOR RING
1	07B-20-00-3-23-FIREBOX DOOR
1	07B-20-00-3-24-INJECTOR STEAM SUPPLY PIPE
1	07B-20-00-3-25-WATER LEVEL GAUGE
1	07B-20-00-3-26-BACKHEAD CHECK VALVE
1	07B-20-00-3-27-WHISTLE OPERATOR VALVE
1	07B-20-00-3-28-WASH OUT PLUG
1	07B-20-00-3-29-‘EVERLASTING’ BLOW DOWN VALVE BODY
1	07B-20-00-3-30-‘EVERLASTING BLOW DOWN VALVE LEVER
1	07B-20-00-3-31-STEAM BRAKE VALVE
1	07B-20-00-3-33-BOILER TOP WATER FEED FITTING
3	07B-20-00-3-34-BUSH 20xM16x26
1	07B-20-00-3-40-FOOTPLATE
2	07B-20-00-3-41-NAME PLATE
1	07B-20-00-3-42-DRIVERS CABIN
2	07B-20-00-3-43-NUMBER PLATE
2	07B-20-00-3-44-CABIN HORIZONTAL HANDRAIL
2	07B-20-00-3-45-CABIN VERTICAL HANDRAIL
2	07B-20-00-3-46-INLET STEAM PIPE COVER
14	07B-20-00-3-47-BOILER HAND RAIL INSERT
14	07B-20-00-3-48-BOILER HAND RAIL STAND OFF
2	07B-20-00-3-49-BOILER HAND RAIL
1	07B-20-00-3-50-SMOKE BOX HAND RAIL
1	07B-20-00-3-52-DUMMY SAND BOX

QTY.	PART NUMBER
1	07B-20-00-3-52-DUMMY SAND BOX
1	07B-20-00-4-01-TENDER UNDER FRAME
6	07B-20-00-4-02-AXLE BOX+LEAFSPRING
2	07B-20-00-4-03-BUFFER
1	07B-20-00-4-04-DRAWHOOK
2	07B-20-00-4-05-AIR BRAKE PIPE
6	07B-20-00-4-06-BRAKE HANGER
3	07B-20-00-4-07-BRAKE BEAMS
6	07B-20-00-4-08-BRAKE SHOE
2	07B-20-00-4-09-PULL ROD TYPE-1
1	07B-20-00-4-10-PULL ROD TYPE-2
1	07B-20-00-4-11-BRAKE SHAFT
1	07B-20-00-4-12-BRAKE SHAFT NUT
1	07B-20-00-4-13-SOLE PLATE
1	07B-20-00-4-14-HAND BRAKE COLUMN
1	07B-20-00-4-15-INJECTOR WATER SHUT OFF VALVE
1	07B-20-00-4-16-MECH FEED PUMP WATER SHUT OFF VALVE
1	07B-20-00-4-17-WATER SUPPLY CONNECTOR
1	07B-20-00-4-18-BY-PASS PIPE CONNECTOR
1	07B-20-00-4-19-HAND PUMP PIPE CONNECTOR
1	07B-20-00-4-20-HAND PUMP
1	07B-20-00-4-21-GUARD IRON
2	07B-20-00-4-22-FRONT-REAR STEPS
2	07B-20-00-4-22-FRONT-REAR STEPS
1	07B-20-00-4-23-SIDE PANELS
1	07B-20-00-4-23-SIDE PANELS
1	07B-20-00-4-24-REAR PANEL
2	07B-20-00-4-25-TENDER FRONT END VERTICAL HANDRAIL
2	07B-20-00-4-26-TENDER REAR END VERTICAL HANDRAIL
1	07B-20-00-M184mm-RAIL

OTHER ABBREVIATIONS
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

NOTES: SOME OF THE ORIGINAL DRAWINGS WERE FOUND ON THE INTERNET AND SOME ORIGINAL DRAWINGS WERE GIVEN TO ME BY DAVID CARPENTER. DRAWINGS WERE PUBLISHED IN THE MAGAZINE: THE MODEL ENGINEER, 1948, 1949 THE TITLE OF THE ARTICLES WAS "A 3-1/2-INCH GAUGE L.M.S. CLASS 5 LOCO BY "L.B.S.C.""

TITLE
A L.M.S. CLASS 5 STEAM LOCOMOTIVE 4-6-0 CALLED "DORIS" FOR 7.25inch/184mm GAUGE

DRAWING CONTENTS
ISOMETRIC VIEW, NOTES, BILL OF MATERIALS

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PROJECTION
DATE
SEPTEMBER 2023
SHEET: 02 OF 17

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A2 No:07B-20-00-SHT-02

MODEL SCALE: 1:7.8
DWG SCALE: 1:1 @A2 OR AS SHOWN

PLEASE NOTE THIS IS AN "A2" SIZE SHEET

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