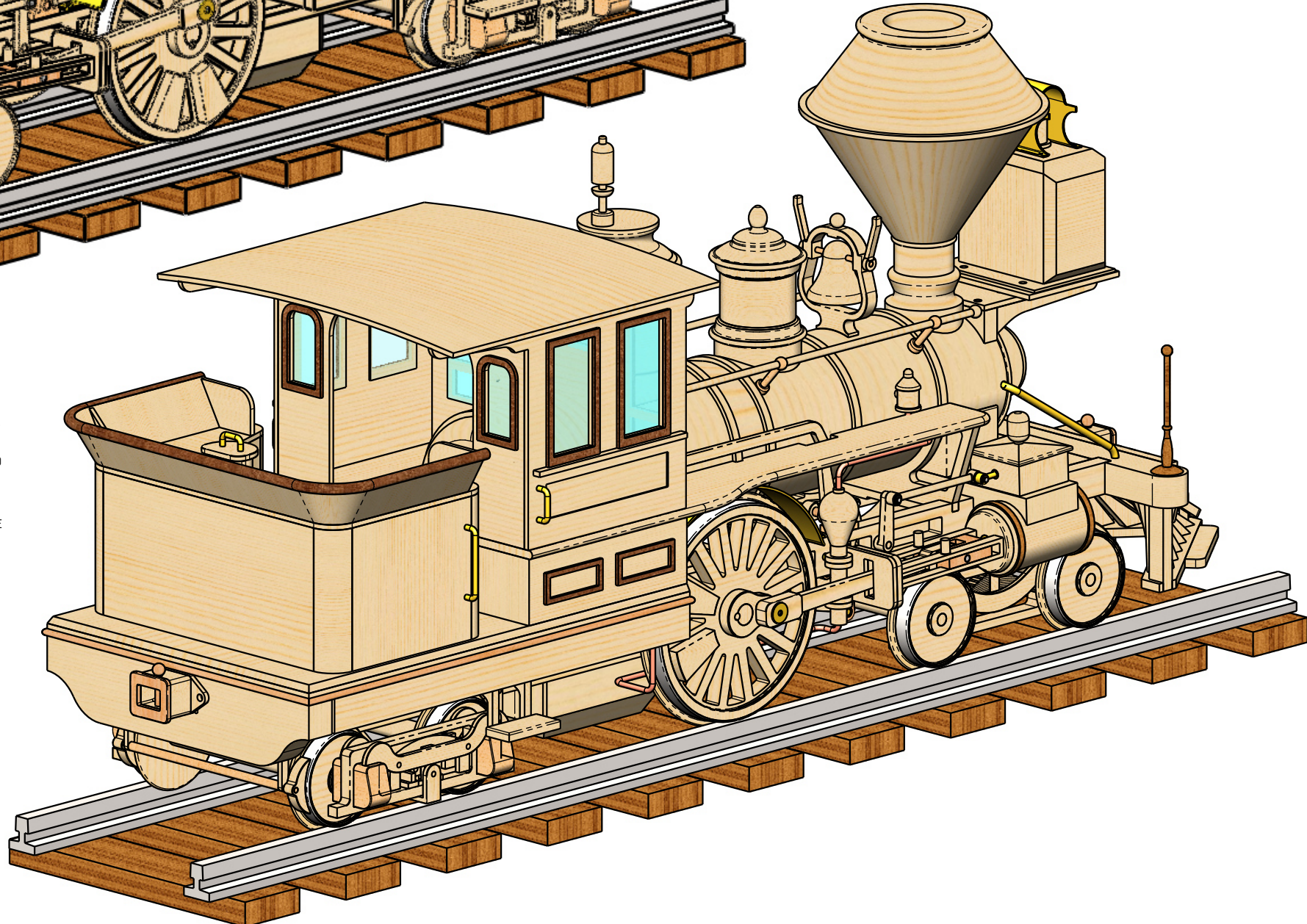
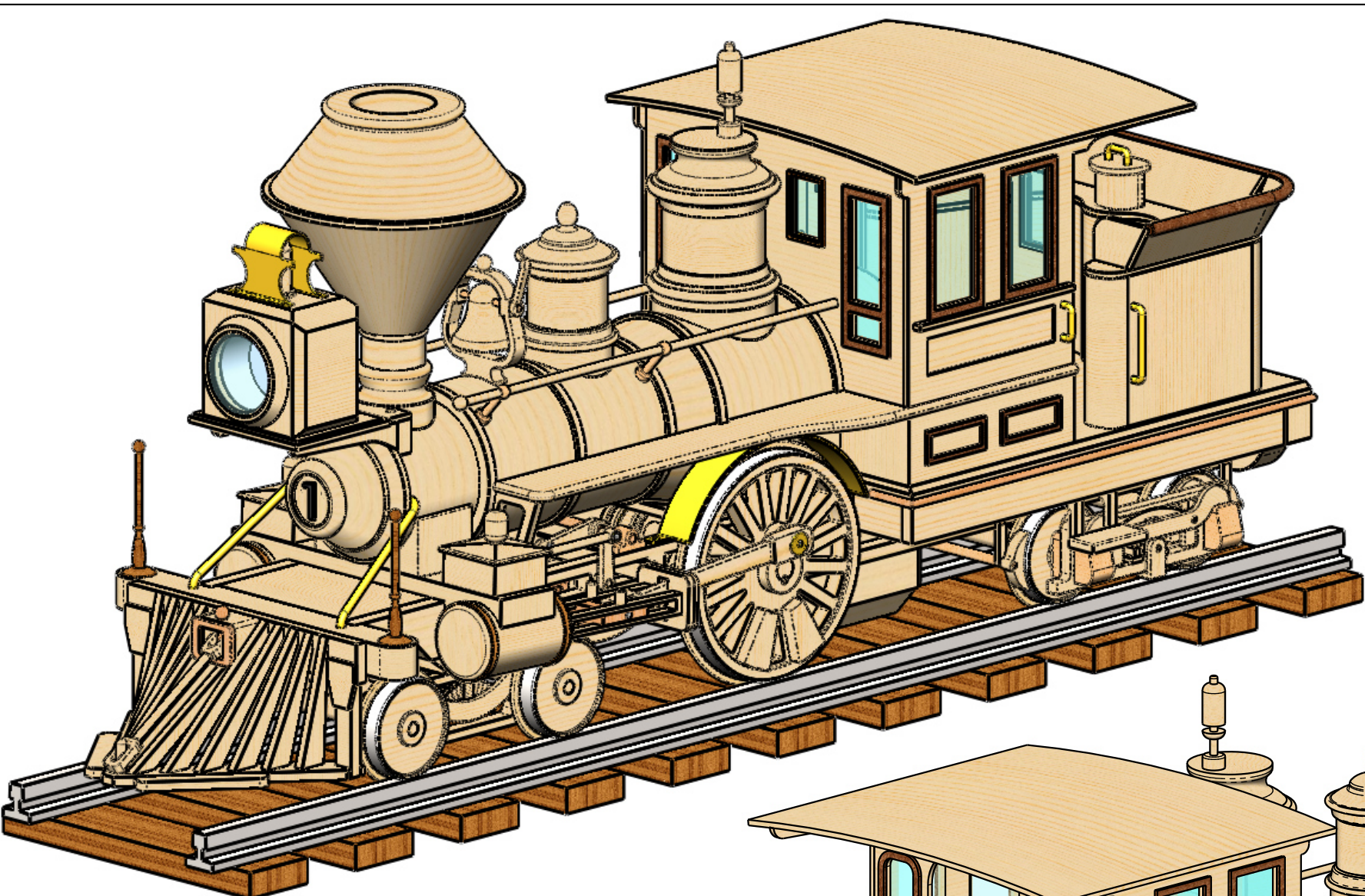




NOTES:

0. ALL DRAWINGS ARE IN IMPERIAL 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 MPERIAL STANDARDS

4. MATERIALS SPECIFIED ON THE DRAWINGS ARE INDICATIVE ONLY. THE BUILDER CAN MAKE HIS/HER OWN MATERIAL CHOICE.

5. 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.

6. THE ORDER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED AND THE MODEL IS ASSEMBLED IS ENTIRELY LEFT TO THE BUILDER/MODEL MAKER.

7. A COLOUR SCHEME FOR THIS PROJECT IS ENTIRELY LEFT UP TO THE MODEL MAKER.

8 THE MANNER IN WHICH THE PARTS/COMPONENTS ARE MANUFACTURED IS ENTIRELY LEFT UP TO THE BUILDER.

9. WASHER SHALL BE USED WHERE DEEMED NECESSARY.

XX. ERRORS AND/OR OMISSIONS MAY OCCUR IN THE DRAWINGS, DO NOT HESITATE TO CONTACT ME SO THAT THE ERRORS/OMISSIONS CAN BE RECTIFIED.

OTHER ABBREVIATIONS

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

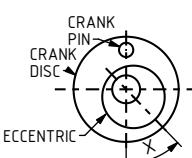
DWL= DOWEL

(TIHESOP=(TAPPED)HOLES EQUALLY SPACED ON PCD

(TIHESOC=(TAPPED)HOLES EQUALLY SPACED ON CIRCUMFERENCE

[SA-xxx]= SUB ASSEMBLY-xxx

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



MATERIAL ABBREVIATIONS:

BRS = BRASS

MS = MILD STEEL

TAP THREAD:

TH0.17 = #10-32UNF

TH0.08 = #3-48UNC

QTY.	PART NUMBER	QTY.	PART NUMBER
2	CPHUNT-3.5-6-02-BASE FLOOR PLATE SKIRT-1	2	CPHUNT-3.5-1-01-SIDE FRAME
2	CPHUNT-3.5-6-03-BASE FLOOR PLATE SKIRT-2	1	CPHUNT-3.5-1-02-REAR BUFFER BEAM
1	CPHUNT-3.5-6-04-CABIN FLOOR	1	CPHUNT-3.5-1-03-FRONT BREAST BEAM
2	CPHUNT-3.5-6-05-CABIN SEAT	1	CPHUNT-3.5-1-04-PILOT MAIN FRAME TOP PLATE
1	CPHUNT-3.5-6-06-RUNNING BOARD	2	CPHUNT-3.5-1-05-PILOT MAIN FRAME DROPPER PLATE
1	CPHUNT-3.5-6-06-RUNNING BOARD	1	CPHUNT-3.5-1-06-PILOT MAIN FRAME BOTTOM PLATE
1	CPHUNT-3.5-6-07-CABIN FRONT PLATE	2	CPHUNT-3.5-1-07-PILOT MAIN FRAME BOTTOM STEP PLATE
1	CPHUNT-3.5-6-08-CABIN SIDE PLATE	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-1
1	CPHUNT-3.5-6-08-CABIN SIDE PLATE	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-2
1	CPHUNT-3.5-6-09-CABIN REAR PLATE	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-3
2	CPHUNT-3.5-6-10-CABIN HAND RAIL	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-4
1	CPHUNT-3.5-6-11-CABIN ROOF	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-5
2	CPHUNT-3.5-6-12-CABIN STEP	2	CPHUNT-3.5-1-08-PILOT MAIN FRAME RAIL-6
2	CPHUNT-3.5-6-13-BASE FLOOR PLATE TRIM	1	CPHUNT-3.5-1-09-COUPLING PULL ROD HOUSING
2	CPHUNT-3.5-6-13-BASE FLOOR PLATE TRIM	1	CPHUNT-3.5-1-10-PULL ROD
1	CPHUNT-3.5-6-13-BASE FLOOR PLATE TRIM	2	CPHUNT-3.5-1-11-FLAG POLE
1	CPHUNT-3.5-6-14- WATER TANK SURROUND	1	CPHUNT-3.5-1-12-CROSS BRACE-1
1	CPHUNT-3.5-6-15-WATER TANK TOP PLATE	1	CPHUNT-3.5-1-13-CROSS BRACE-2
1	CPHUNT-3.5-6-16-WATER FILLER LID HANDLE	1	CPHUNT-3.5-1-14-CROSS BRACE-3
2	CPHUNT-3.5-6-17-WATER TANK FLANGE BRACKET-1	1	CPHUNT-3.5-1-15-CYLINDER SADDLE BEAM
4	CPHUNT-3.5-6-18-WATER TANK FLANGE BRACKET-2	1	CPHUNT-3.5-1-16-REAR TRUCK CROSS BRACE
1	CPHUNT-3.5-6-19-WATER TANK FLANGE	2	CPHUNT-3.5-1-17-CYLINDER
2	CPHUNT-3.5-6-20-WATER TANK HAND RAIL	4	CPHUNT-3.5-1-18-CROSSHEAD GUIDE
1	CPHUNT-3.5-89mm-RAIL	1	CPHUNT-3.5-1-19-CROSSHEAD GUIDE YOKE PLATE
		2	CPHUNT-3.5-1-20-STEAM CHEST
		1	CPHUNT-3.5-1-21-CROSS BRACE-4
		2	CPHUNT-3.5-1-22-LEVER SHAFT BEARING PEDESTAL
		4	CPHUNT-3.5-1-23-REAR BOGIE BRAKE HANGER
		2	CPHUNT-3.5-1-24-BRAKE HANGER CROSS SHAFT
		4	CPHUNT-3.5-1-25-REAR BOGIE BRAKE SHOE
		2	CPHUNT-3.5-1-26-BRAKE SHOE CROSS SHAFT
		1	CPHUNT-3.5-1-30-SMOKE BOX REST
		1	CPHUNT-3.5-1-31-FRONT BOLIER REST
		2	CPHUNT-3.5-1-32-DRIVER WHEEL MUDGUARD
		1	CPHUNT-3.5-1-33-REAR BEAM COUPLING
		1	CPHUNT-3.5-1-34-FEED WATER PUMP
		1	CPHUNT-3.5-1-35-PUMP TO VALVE PIPE
		1	CPHUNT-3.5-1-36-WATER TANK TO PUMP PIPE
		1	CPHUNT-3.5-2-01-DRIVER WHEEL AXLE
		2	CPHUNT-3.5-2-02-DRIVER WHEEL
		2	CPHUNT-3.5-2-03-DRIVER WHEEL CRANK PIN
		2	CPHUNT-3.5-2-04-CROSSHEAD SLIDE+PISTON ROD
		2	CPHUNT-3.5-2-05-CON-ROD
		4	CPHUNT-3.5-2-06-ECCENTRIC SHEAVE
		4	CPHUNT-3.5-2-07-ECCENTRIC ROD
		2	CPHUNT-3.5-2-08-EXSPANSION LINK PLATE
		3	CPHUNT-3.5-2-09-CONTROL ROD LEVER
		1	CPHUNT-3.5-2-10-CONTROL ROD LEVER SHAFT
		1	CPHUNT-3.5-2-11-CONTROL LEVER LINK
		1	CPHUNT-3.5-2-11-CONTROL LEVER LINK
		2	CPHUNT-3.5-2-12-ROCKING LEVER SHAFT
		4	CPHUNT-3.5-2-13-ROCKING LEVER
		2	CPHUNT-3.5-2-14-EXSPANSION LINK SLIDER
		2	CPHUNT-3.5-2-15-SLIDE VALVE SPINDLE
		2	CPHUNT-3.5-2-16-VALVE SPINDLE CON-ROD
		2	CPHUNT-3.5-2-17-M3x12 BRASS WASHER
		1	CPHUNT-3.5-2-18-REACH ROD
		1	CPHUNT-3.5-2-19-REACH ROD WRIST PIN
		2	CPHUNT-3.5-2-20-R3x11 WRIST PIN
		2	CPHUNT-3.5-2-21-R3x10 WRIST PIN
		6	CPHUNT-3.5-2-22-R3x7 WRIST PIN
		2	CPHUNT-3.5-3-01-FRONT BOGIE SIDE FRAME
		2	CPHUNT-3.5-3-02-FRONT BOGIE SPRING HANGER
		2	CPHUNT-3.5-3-03-FRONT BOGIE LEAF SPRING
		1	CPHUNT-3.5-3-04-FRONT BOGIE CENTER CROSS BRACE
		2	CPHUNT-3.5-3-05-FRONT BOGIE END CROSS BRACE
		1	CPHUNT-3.5-3-06-FRONT BOGIE CENTER BOLSTER BEAM
		2	CPHUNT-3.5-3-07-FRONT BOGIE WHEEL AXLE
		4	CPHUNT-3.5-3-08-FRONT BOGIE WHEEL
		2	CPHUNT-3.5-4-01-REAR BOGIE SIDE FRAME
		1	CPHUNT-3.5-4-02-REAR BOGIE BOLSTER PLATE
		1	CPHUNT-3.5-4-03-REAR BOGIE CENTER BOLSTER BEAM
		4	CPHUNT-3.5-4-04-REAR BOGIE AXLE BOX
		4	CPHUNT-3.5-4-05-REAR BOGIE EQUALIZER BEAM
		2	CPHUNT-3.5-4-06-REAR BOGIE SPRING PACK
		12	CPHUNT-3.5-4-07-REAR BOGIE SPACER
		2	CPHUNT-3.5-4-08-REAR BOGIE SPACER YOKE
		2	CPHUNT-3.5-4-09-REAR BOGIE WHEEL AXLE
		4	CPHUNT-3.5-4-10-REAR BOGIE WHEEL
		1	CPHUNT-3.5-5-01-SMOKE BOX FRONT COVER
		1	CPHUNT-3.5-5-02-SMOKE BOX
		1	CPHUNT-3.5-5-03-BOILER FRONT SECTION
		1	CPHUNT-3.5-5-04-BOILER REAR SECTION
		1	CPHUNT-3.5-5-05-BOILER FIRE BOX
		1	CPHUNT-3.5-5-06-ASHPAN
		1	CPHUNT-3.5-5-07-BACKHEAD
		1	CPHUNT-3.5-5-08-HEADLIGHT BRACKET
		1	CPHUNT-3.5-5-09-SMOKE STACK
		1	CPHUNT-3.5-5-10-HEADLIGHT
		1	CPHUNT-3.5-5-11-HEADLIGHT HOOD
		1	CPHUNT-3.5-5-12-BELL HANGER BRACKET
		2	CPHUNT-3.5-5-13-BELL RINGER HANDLE
		1	CPHUNT-3.5-5-14-BELL
		1	CPHUNT-3.5-5-15-SANDBOX
		1	CPHUNT-3.5-5-16-STEAM DOME
		1	CPHUNT-3.5-5-17-WHISTLE-SAFETY VALVE
		1	CPHUNT-3.5-5-18-FIRE BOX DOOR
		4	CPHUNT-3.5-5-19-HAND RAIL POST
		2	CPHUNT-3.5-5-20-HAND RAIL
		1	CPHUNT-3.5-5-21-FEED WATER NON RETURN VALVE
		1	CPHUNT-3.5-5-22-SMOKEBOX STAY
		1	CPHUNT-3.5-5-22-SMOKEBOX STAY
		1	CPHUNT-3.5-6-01-BASE FLOOR PLATE

MODEL OF A 4-2-4 AMERICAN LOCOMOTIVE NAMED "C.P.HUNTINGTON" FOR 3.5" GAUGE

DRAWING CONTENTS

ISOMETRIC VIEWS, NOTES AND BILL OF MATERIALS

PROJECT No: 07E-18-01

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PROJECTION

DATE JANUARY 2020

SHEET: 02 OF 07

MODEL SCALE: 1:1

DWG SCALE: 1:1 @A3 OR AS SHOWN

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A2 No:07E-18-01 SHT02

PLEASE NOTE THIS IS AN A2 SHEET SIZE

NOTES: THE ORIGINAL DRAWINGS AND ARTICLE(S) WERE PUBLISHED IN THE "POPULAR SCIENCE" MAGAZINES OF 1946. PHOTO COPIES OF THE ORIGINAL DRAWINGS WERE SENT TO ME BY Mr TOM SCRIVEN (SCOTLAND).

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