

UTAH RAILWAY COMPANY

Steam Locomotives

Folio of Diagrams Showing General Descriptive Data

**MC-2 Class.
2-10-2 Classes.
Consolidated Class.**

29
XU-219

CAB
7'-6" LONG x 10'-0" WIDE

ENGINE NO. 1

G-50 ²⁰/₂₄ 132

Demolished and Retired - July 1939 - AFE-823.

5000 GALS. 10 TONS
PAGE. 8

FIREBOX
30" x 66" WIDE

250-2" BOILER TUBES
14'-0" LONG

WIDTH OVER
CYLINDER
CASINGS = 9'-5 3/4"

52'-7 1/2" WHEEL BASE - ENG. & TENDER
59'-10 1/2" OVER COUPLER & PILOT

DRIVERS WITH 3" TIRES

CONSOLIDATION - SWITCH &
PASSENGER LOCOMOTIVE

BOILER PRESSURE 200 LBS.

CYLINDERS 20" DIA. 24" STROKE

TRACTIVE POWER 32,600 LBS.

WEIGHT ON DRIVERS 132,400 "

WEIGHT-ENGINE LOADED 151,400 "

WEIGHT-ENG & TENDER-LD. 256,325 "

HEATING SURFACE

2" BOILER TUBES (250) 1833 SQ. FT.

ARCH TUBES NONE

FIREBOX 128 SQ. FT.

TOTAL 1961 " "

GRATE AREA 4 1/4 "

DIA. 1ST. COURSE - O.S. 62 3/8"

VALVE GEAR STEPHENSON

TRAIN SIGNAL YES

BUILT 1909.

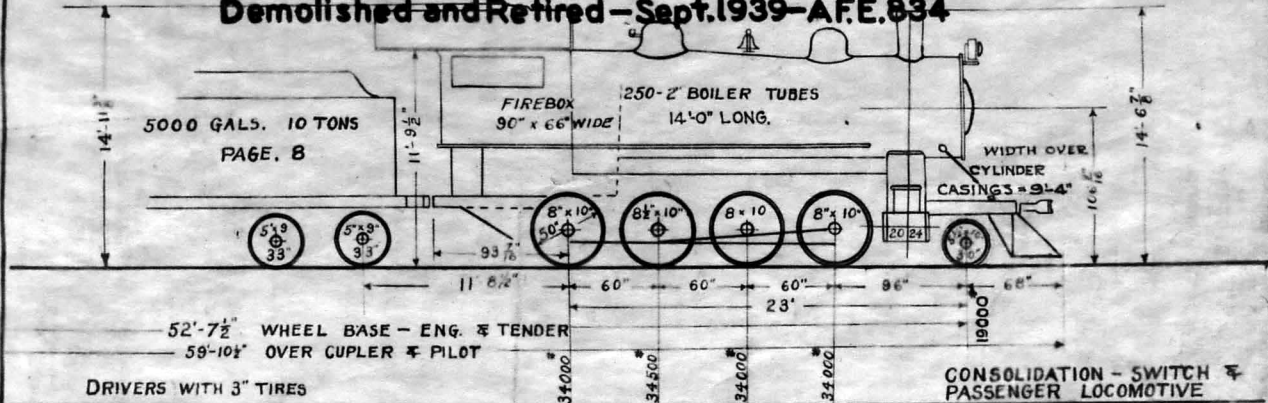
LIMA LOCOMOTIVE WORKS

CAB
7'-6" LONG x 10'-0" WIDE.

ENGINE NO. 2

C-50 $\frac{20}{24}$ 136

Demolished and Retired - Sept. 1939 - A.F.E. 834



BOILER PRESSURE 200 LBS.
CYLINDERS 20" DIA. 24" STROKE
TRACTION POWER 32,600 LBS.
WEIGHT ON DRIVERS 136,500
WEIGHT - ENGINE LOADED 155,500
WEIGHT - ENG & TENDER LOAD 260,425

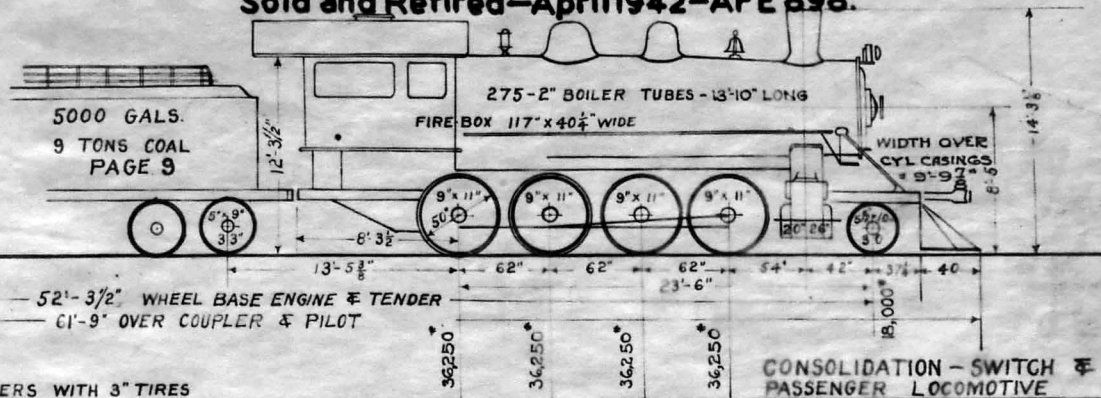
HEATING SURFACE
2" BOILER TUBES (250) 1833 SQ. FT.
ARCH TUBES NONE
FIREBOX 128 SQ. FT.
TOTAL 1961
GRATE AREA 41 $\frac{1}{4}$

DIA. 1ST. COURSE - 0.5 62 $\frac{1}{2}$
VALVE GEAR WALSHEART
TRAIN SIGNAL YES
BUILT 1910.
LIMA LOCOMOTIVE WORKS

CAB-STEEL

ENGINE NO. 3

Sold and Retired—April 1942—AFE 898.

G-50- $\frac{20}{26}$ 145

DRIVERS WITH 3" TIRES

BOILER PRESSURE.....175 LBS.	HEATING SURFACE	DIA. 1ST, COURSE.....65 INS.
CYLINDERS.....20" DIA. 26 STROKE	2" BOILER TUBES.....1980 SQ. FT.	LAST COURSE.....70
TRACTIVE POWER.....32700 LBS.	ARCH TUBES.....NONE	LENGTH OF TUBES.....13-10"
WEIGHT ON DRIVERS...145000	FIREBOX.....180	VALVE GEAR.....WALSCHAERT
WEIGHT-ENGINE LOADED 163000	TOTAL.....2160	TRAIN SIGNAL.....YES
WEIGHT-ENG. & TENDER LD. 269,000	GRATE AREA.....32.8	BUILT AM. LOCOMOTIVE CO.--Dec. 1910

CAB STEEL
WIDTH OVER WATER SHIELDS
" " EAVES

ENGINE 4

C-51 - $\frac{21}{28}$ 175

1942

7600 ~~6000~~ GALS.
12 TONS COAL
PAGE 10

375 2" BOILER FLUES 12'-10" LONG
FIREBOX 107" X 73 $\frac{1}{4}$ "

WIDTH OVER
CYLINDER
CASINGS =
9'-10 $\frac{1}{8}$ "

54'-3" WHEEL BASE ENG. & TENDER
63'-11" OVER COUPLERS

DRIVERS WITH $3\frac{1}{2}$ " TIRES

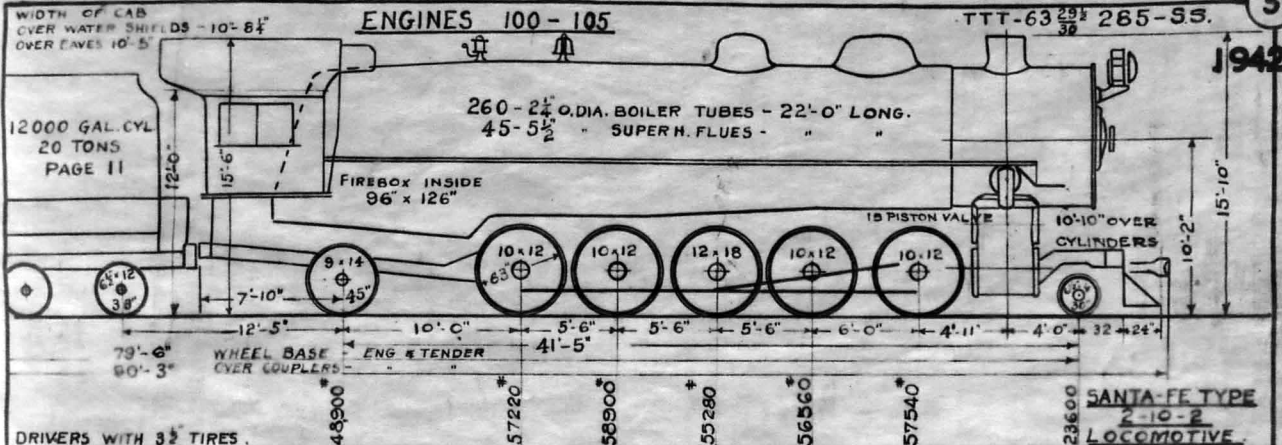
CONSOLIDATION SWITCH &
PASSENGER LOCOMOTIVE

BOILER PRESSURE 185 LBS
CYLINDERS 21" DIA. 28" STROKE
TRACTION POWER 38,070 LBS
WEIGHT ON DRIVERS 174,900 "
WEIGHT ENG. LOADED 194,900 "
WT. ENG. & TENDER LOADED 321,400 "

HEATING SURFACE
2" BOILER TUBES 2497 SQ. FT.
ARCH TUBES NONE
FIREBOX 179 "
TOTAL 2676 "
GRATE AREA 54.4 "

Firebar Grates

DIA. 1ST. COURSE 74 $\frac{1}{4}$ INS.
DIA. LAST COURSE 70 $\frac{1}{2}$ "
LENGTH OF TUBES 12'-10"
VALVE GEAR WALSCHAERT
Power Reverse Yes
BUILT AM. LOCOMOTIVE CO. 1911.



DRIVERS WITH 32" TIRES.

BOILER PRESSURE 200 LBS.
 CYLINDERS 29 1/2" DIA. x 30" STROKE
 TRACTIVE POWER 70450 LBS.
 WEIGHT ON DRIVERS 285,500 "
 WEIGHT-ENGINE-LOADED 358,000 "
 WEIGHT-ENG. & TENDER-LOADED 573,000 "
 DIA. 1ST. COURSE - O.S. = 88 INCHES.

HEATING SURFACE
 SUPERHEATER - (1262 SQ. FT.)
 EQUIV. SUPERHEATER 1893 SQ. FT.
 5 1/2" SUPERHEATER FLUES 1420 "
 2 1/4" BOILER TUBES 3354 "
 ARCH TUBES 30 "
 FIREBOX & COMBUSTION CHAMBER 348 "

TOTAL HEATING SURFACE - 7045 SQ. FT.
 GRATE AREA - Firebar Grates 84 SQ. FT.
 VALVE GEAR WALSCHAERT
 TRAIN SIGNAL - Power Reverse YES
 STEAM HEAT YES
 STOKER Standard.
 BUILT BALDWIN LOK WORKS 1917.

WIDTH OF CAB
OVER WATER SHIELDS - 10'-8"
OVER EAVES 10'-6"

ENGINES 106 & 107

TTT-63 299-S.D.

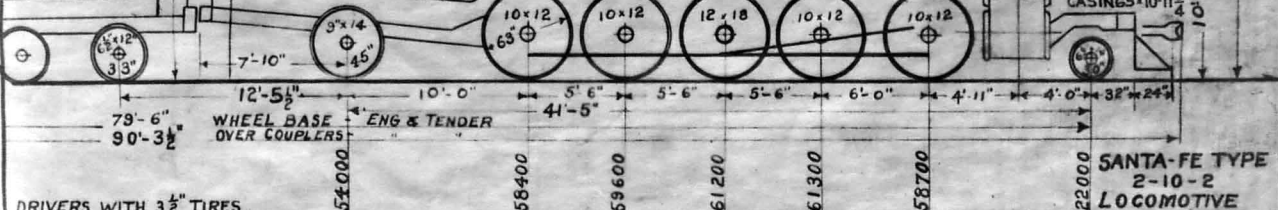
1942

12000 GAL. CYL.
20 TONS.
PAGE 12

260-2 $\frac{1}{2}$ " O.DIA. BOILER TUBES - 22' 0" LONG.
45-5 $\frac{1}{2}$ " " SUPERH. FLUES - " "

FIREBOX INSIDE
96" x 126"

WIDTH
OVER CYLINDER
CASINGS - 10'-11 $\frac{3}{4}$ "



DRIVERS WITH 3 $\frac{1}{2}$ " TIRES.

BOILER PRESSURE ——— 200 LBS.
CYLINDERS ——— 29 $\frac{1}{2}$ " DIA.-30" STROKE.
TRACTION POWER ——— 70450 LBS.
WEIGHT ON DRIVERS ——— 299200 "
WEIGHT-ENGINE-LOADED ——— 375200 "
WEIGHT-ENG. & TENDER-LOADED 592400 "
DIA. 1ST. COURSE - O.S. ——— 88" INCHES

HEATING SURFACE
SUPERHEATER - (1165 SQ.FT)
EQUIV. SUPERHEATER ——— 1747 Sq.Ft.
5 $\frac{1}{2}$ " SUPERHEATER FLUES ——— 1420 "
2 $\frac{1}{2}$ " BOILER TUBES ——— 3360 "
ARCH TUBES ——— 32 "
FIREBOX & COMBUSTION CHAMBER — 368 "

TOTAL HEATING SURFACE ——— 6927 SQ.FT.
GRATE AREA-**Firebar Grates** 64 SQ.FT.
VALVE GEAR ——— WALSCHAERT
TRAIN SIGNAL-**Power Reverse**-YES
STEAM HEAT ——— YES
STOKER ——— DUPLEX-TYPE "D"
BUILT BALDWIN LOC.WORKS — 1920.

WIDTH OF CAB OVER WATER SHIELDS 10'-8 1/4"
 WIDTH OF CAB OVER EAVES 10'-6"

ENGINE No. 108.

CLASS TTT-63 29 1/2 - 3D

TENDER
 CYL. TANK 12000 GAL.
 WATER CAP. 20 TONS
 COAL. PAGE 13

260-2 1/4 O.DIA. BOILER TUBES-22'-0" LONG.
 45-5 1/2 O.DIA. SUPERHEATER FLUES-22'-0" LONG.

FIREBOX INSIDE
 96"x126"

1942

WIDTH OVER
 CYLINDERS 10'-10"-2"



WHEEL BASE ENGINE & TENDER 79'-7 1/2"
 LENGTH OF ENGINE & TENDER OVERALL 90'-3 5/8"

DRIVERS WITH 3 1/2" TIRES.

GAUGE 4'-8 1/2" CYLINDERS 29 1/2 x 30" VALVES PISTON 15" DIA. BOILER TYPE STRAIGHT TOP DIAMETER 88" WORKING PRESSURE 200" FUEL COAL	FIREBOX MATERIAL STEEL STAYING RADIAL LENGTH 126" WIDTH 96" DEPTH, FRONT 93 1/2" " BACK 75 1/2" Firebar Grates	HEATING SURFACE FIREBOX 2453 sq ft COMBUSTION CHAMBER 96" TUBES 4774" FIREBRICK TUBES 30" TOTAL 5145" SUPERHEATER 1252" GRATE AREA 84"	WEIGHT IN WORKING ORDER ON DRIVING WHEELS 291485 ON TRUCKS, FRONT 26570 " " BACK 57658 TOTAL ENGINE 375700 TOTAL ENG. & TENDER 595000 TRACTIVE FORCE 70450	EQUIPPED WITH SUPERHEATER, DUPLEX-TYPE D STOKER, POWER-REVERSE, TRAIN SIGNAL, STEAM HEAT, AND AIR BRAKES ON ALL DRIVING AND TENDER WHEELS, WITH TWO 8 1/2" CROSS-COMPOUND PUMPS.
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SANTA-FE TYPE
 2-10-2
 LOCOMOTIVE

WIDTH OF CAB
OVER WATER SHIELDS - 10'-8"
OVER EAVES - 10'-5"

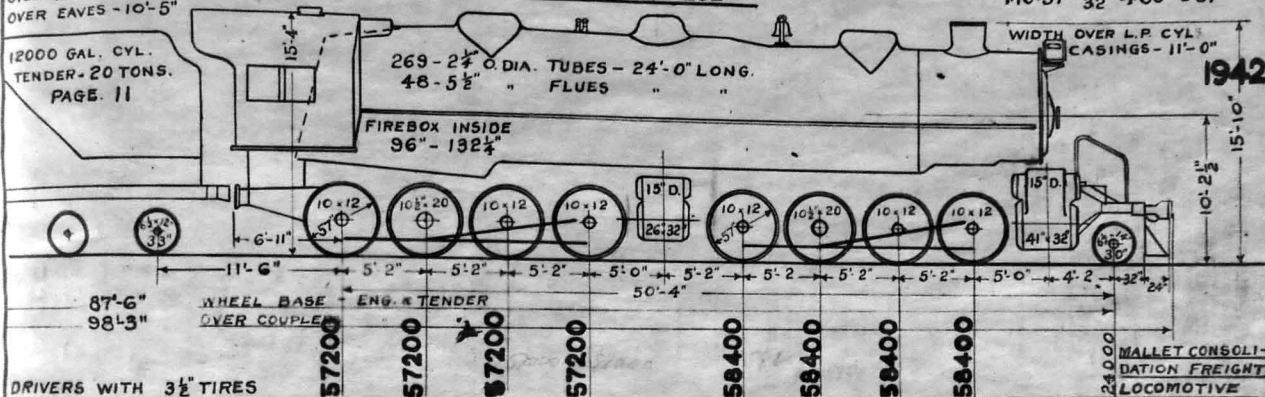
12000 GAL. CYL.
TENDER - 20 TONS.
PAGE. 11

ENGINES 200-202

MC-57 $\frac{26-41}{32}$ 4-60-5s.

WIDTH OVER L.P. CYL.
CASINGS - 11'-0"

1942



DRIVERS WITH $3\frac{1}{2}$ " TIRES

BOILER PRESSURE - 210 LBS.
CYLINDERS - H.P. 26" x 32" - L.P. 41" x 32"
TRACTION POWER - COMPOUND - 103000 LBS.

WEIGHT ON DRIVERS - L.P. ENG. - 233575 "
" " " H.P. ENG. - 228925 "
" " " TOTAL - 462500 "
WEIGHT - ENGINE - LOADED - 485500 "
WEIGHT - ENG. & TENDER - LOADED 702700 "

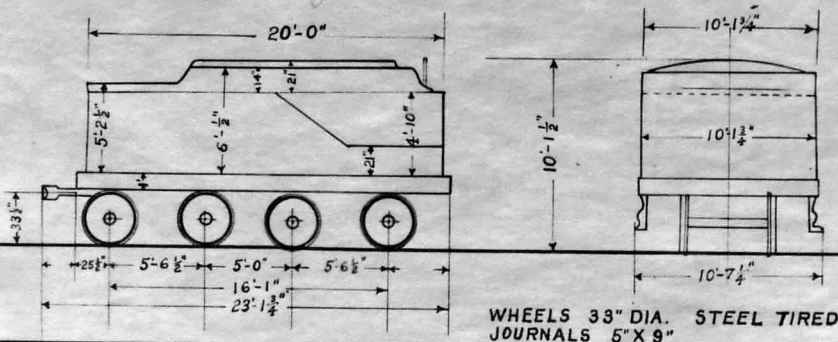
HEATING SURFACE
SUPERHEATER - (1446 SQ. FT.)
EQUIVALENT SUPERHEATER - 2169 SQ. FT.
 $5\frac{1}{2}$ " SUPERHEATER FLUES - 1653 "
 $2\frac{1}{4}$ " BOILER TUBES - 3790 "
ARCH TUBES - 43 "
FIREBOX & COMBUSTION CHAMBER - 349 "
TOTAL - 8004 "

GRATE AREA - **Firebar Gr.** - 88.2 Sq. Ft.
DIA. 1ST. COURSE O.S. - 90"
VALVE GEAR - WALSCHAERT
TRAIN SIGNAL - YES
STEAM HEAT - YES
STOKER - **Standard.**
Power Reverse **Yes.**
BUILT - BALDWIN LOC. WORKS 1917.

5000 GALLON RECTANGULAR TENDER
10 TONS COAL

ENG. Nos 1 & 2.

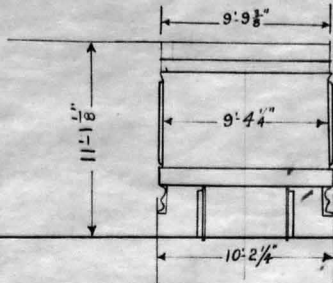
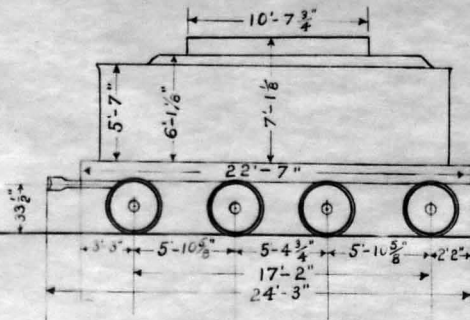
Retired-April and Sept. 1939-AFE's 823 and 834



CAPACITY OF WATER	5000 GALS.	STOKER	NONE
CAPACITY OF COAL	10 TONS	TENDER FRAME	10" CHANNELS
WEIGHT OF TENDER - LIGHT	43300 LBS.	TRUCKS	ARCH BAR
" " " - WATER	41625 "	DRAFT GEAR	MINER
" " " - COAL	20000 "	FRONT BUFFER	SLIDE WEDGE
" " " - LOADED	104025 "	COUPLERS	SHARON

5000 GALLON RECTANGULAR TENDER
9 TONS COAL
Sold and Retired - April 1942 - AFE 898

ENGS. No 3.



WHEELS 33" DIA. C.I CHILLED TREAD
JOURNALS 5" x 9"

CAPACITY OF WATER	5000 GALS.
CAPACITY OF COAL	9 TONS
WEIGHT OF TENDER-LIGHT	46375 LBS.
" " " - WATER	41625 "
" " " - COAL	18000 "
" " " - LOADED	106000 "

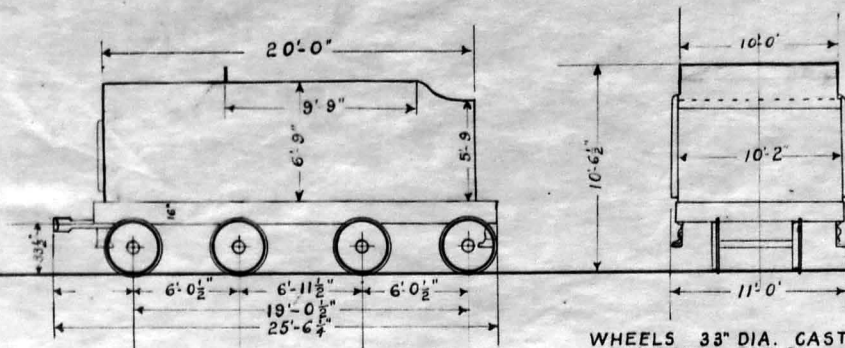
STOKER	NONE
TENDER FRAME	10" CHANNELS
TRUCKS	ARCH BAR
DRAFT GEAR	MINER
FRONT BUFFER	SPRING
COUPLER	MCB.TOWER AUTOMATIC

7600 GALLON RECTANGULAR TENDER

12 TONS COAL

ENG. N^o 4.

1942



WHEELS 33" DIA. CAST IRON PLATE
JOURNALS 5" X 9"

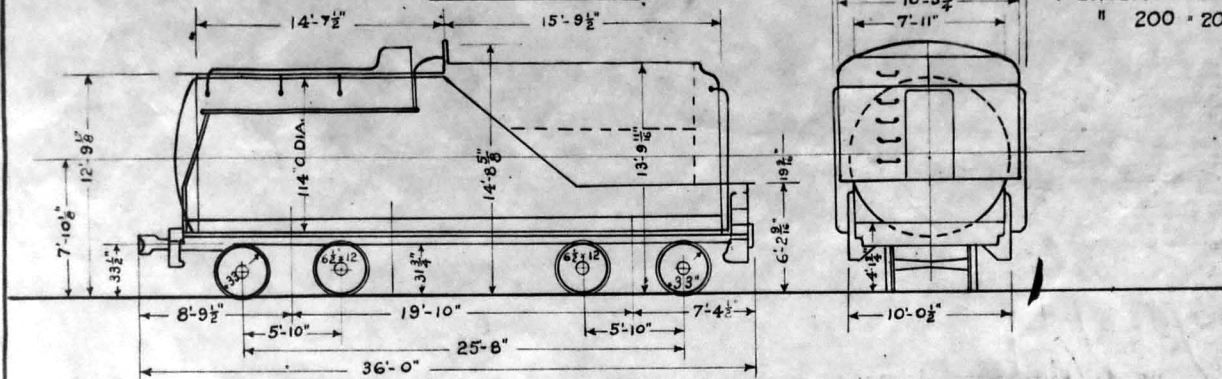
CAPACITY OF WATER ----- **7600** GALS.CAPACITY OF COAL ----- **12** TONSWEIGHT OF TENDER - LIGHT **52550** LBS." " " - WATER **63350** "" " " - COAL **24000** "" " " - LOADED **139900** "STOKER ----- **NONE**TENDER FRAME ----- **13" CHANNELS**TRUCKS ----- **ARCH BAR**DRAFT GEAR **AM. LOC. CO'S. STANDARD**FRONT BUFFER **(A.L. CO'S) DOUBLE SPRING**COUPLER **ARATypeD-AUTOMATIC**

12000 GAL. CYLINDRICAL TENDER
20 TONS COAL

1942

ENGS. 100 To 105

" 200 - 202

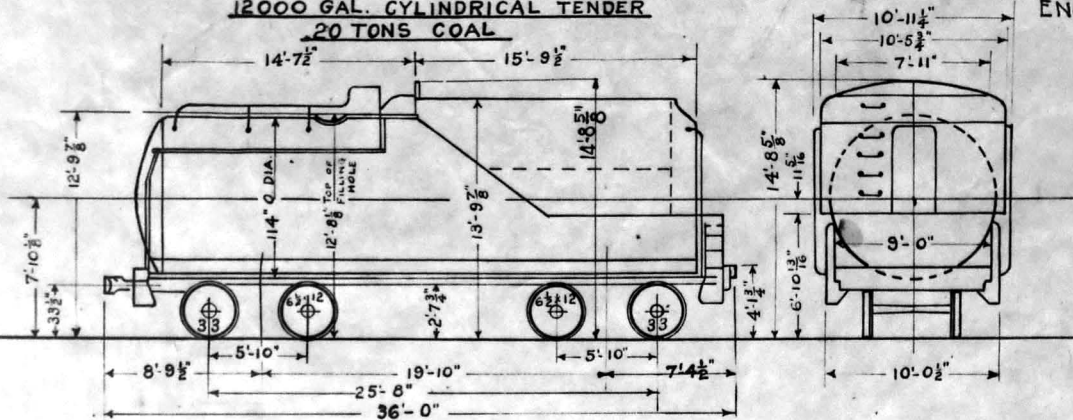


CAPACITY OF WATER	12000	GAL.
CAPACITY OF COAL	40000	LBS.
WEIGHT OF TENDER - LIGHT	75000	"
WEIGHT OF TENDER - WATER	100000	"
WEIGHT OF TENDER - COAL	40000	"
WEIGHT OF TENDER - LOADED	215000	"

STOKER	Standard
TENDER FRAME	CAST STEEL
TENDER TRUCKS	VULCAN
DRAFT GEAR	MINER
FRONT BUFFER	RADIAL
COUPLER	A.R.A. TYPE "D"

12000 GAL. CYLINDRICAL TENDER
20 TONS COAL

ENGs. 106 & 107
1942

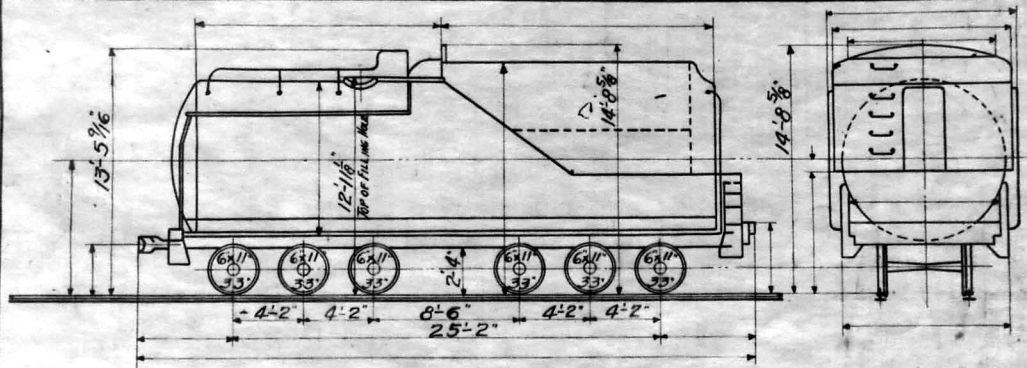


CAPACITY OF WATER	12000 GALS.
CAPACITY OF COAL	40000 LBS.
WEIGHT OF TENDER - LIGHT	77,200 "
WEIGHT OF TENDER - WATER*	100000 "
WEIGHT OF TENDER - COAL	40000 "
WEIGHT OF TENDER - LOADED	217200 "
STOKER	DUPLEX - TYPE "D"

TENDER FRAME	CAST STEEL
TENDER TRUCK	VULCAN
DRAFT GEAR	MINER
FRONT BUFFER	RADIAL
COUPLER	ARATYPE "D"
DRAW BARS	UNIT SAFETY
U. P. C. S. SPECIFICATION	NO. 213

1942

13



12000 GALLON CYLINDRICAL TENDER
20 TONS COAL

ENGINE No. 108

CAPACITY OF WATER.
 CAPACITY OF COAL.
 WEIGHT OF TENDER, - LIGHT.
 WEIGHT OF TENDER, - WATER.
 WEIGHT OF TENDER, - COAL.
 WEIGHT OF TENDER, - LOADED.
 STOKER.

12000 GALS.
 40000 LBS.
 104000 LBS.
 100000 LBS.
 40000 LBS.
 244000 LBS.
 DUPLEX - TYPE "D"

TENDER FRAME.
 TENDER TRUCK.
 DRAFT GEAR.
 FRONT BUFFER.
 COUPLER.
 DRAW BARS.
 U.P.C.S. SPECIFICATION.

CAST STEEL
 VULCAN
 MINER
 RADIAL
 ARA TYPE "D"
 UNIT SAFETY
 No. 216