

DESCRIPTION OF LOCOMOTIVES
K.O.&G. RY. SYSTEM

1920

8-1923

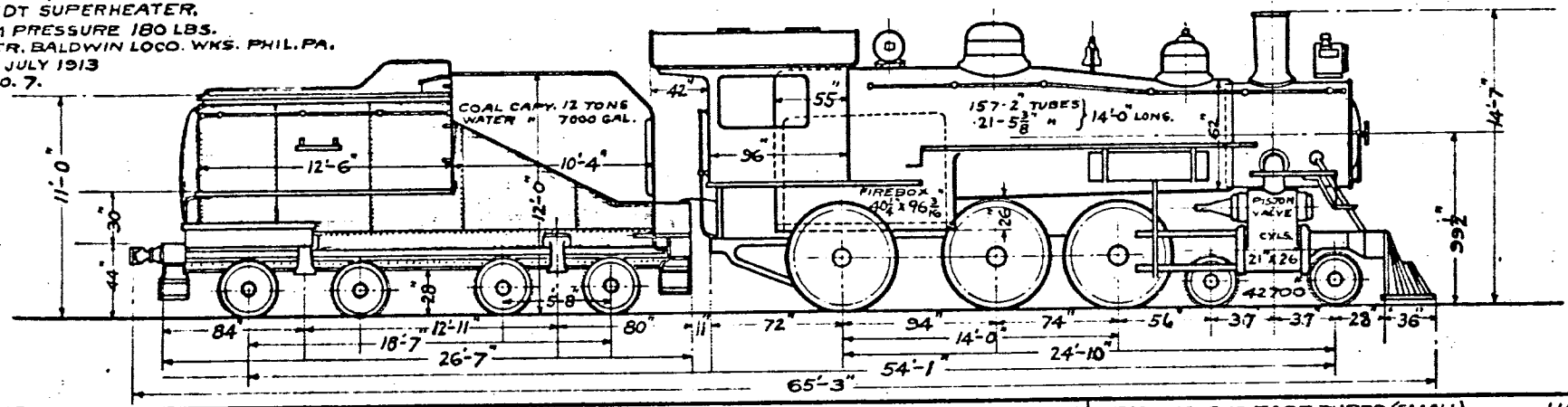
K. O. & G. - 1920

Engines 7 to 106 Incl. - Passenger service

- ✓ 3 - 201 to 211 Incl. - Switch ✓
- ✓ 213 and Up. - Freight ✓

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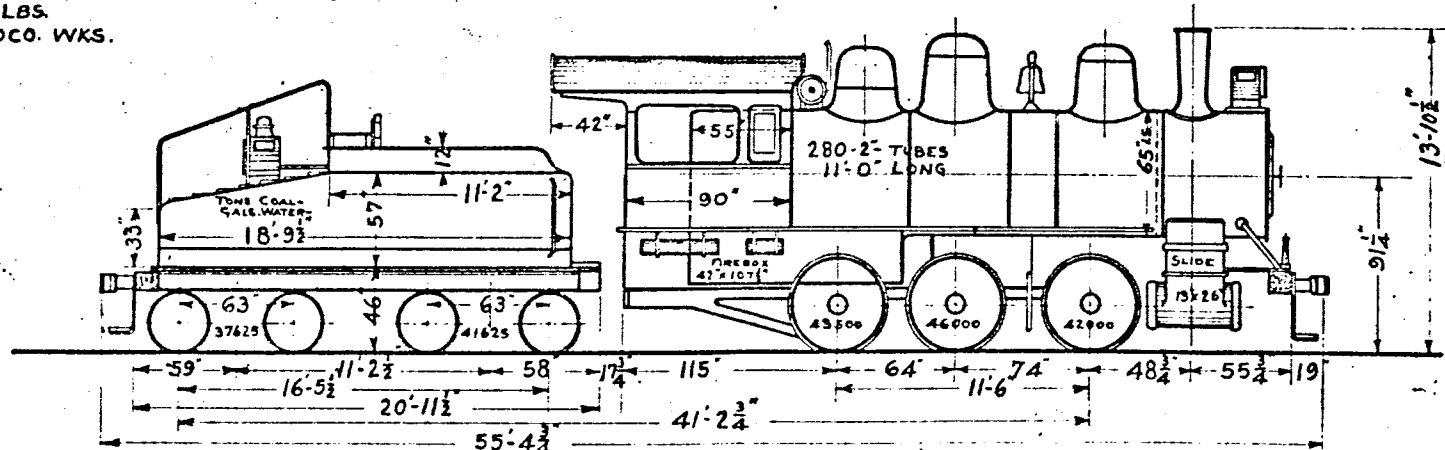
10-WHEEL, SUPERHEATER, TYPE 4-6-0, 27%
 SCHMIDT SUPERHEATER,
 STEAM PRESSURE 180 LBS.
 BUILDER, BALDWIN LOCO. WKS. PHIL. PA.
 BUILT, JULY 1913
 ENG. NO. 7.



CYLINDERS	21" DIA. 26" STROKE	WEIGHT ON DRIVERS	116000 LBS	HEATING SURFACE TUBES (SMALL)	1150 Sq. Ft.
DIA. OF DRIVING WHEELS	64"	WEIGHT OF ENGINE	158700 LBS	HEATING SURFACE TUBES (LARGE)	375 " "
DIA. OF DRIVING WHEEL CENTERS	58"	WEIGHT OF TENDER (LOADED)	131300 LBS	HEATING SURFACE FIREBOX	161 " "
DIA. OF ENGINE TRUCK WHEELS	30"	WEIGHT OF ENG. & TENDER	290000 LBS	HEATING SURFACE TOTAL	1686 " "
DIA. OF TRAILING TRUCK WHEELS	NONE	TRACTIVE POWER	27400 LBS	HEATING SURFACE SUPERHEATER	337 " "
DIA. OF TENDER TRUCK WHEELS	33"	FACTOR OF ADHESION	4.2	KIND OF REVERSE GEAR	LEVER
KIND OF VALVE MOTION	WALSCHAERT	GRATE AREA	27 Sq. Ft.	APRIL 1917	M.O. & G. RY.

3

SIX WHEEL SWITCH ENGINE, TYPE O-6-O, 29 %
 STEAM PRESSURE: 180 LBS.
 BUILDER: SCHECTADY LOCO. WKS.
 BUILT: MAY 1900
 ENGINE NUMBERS: 3



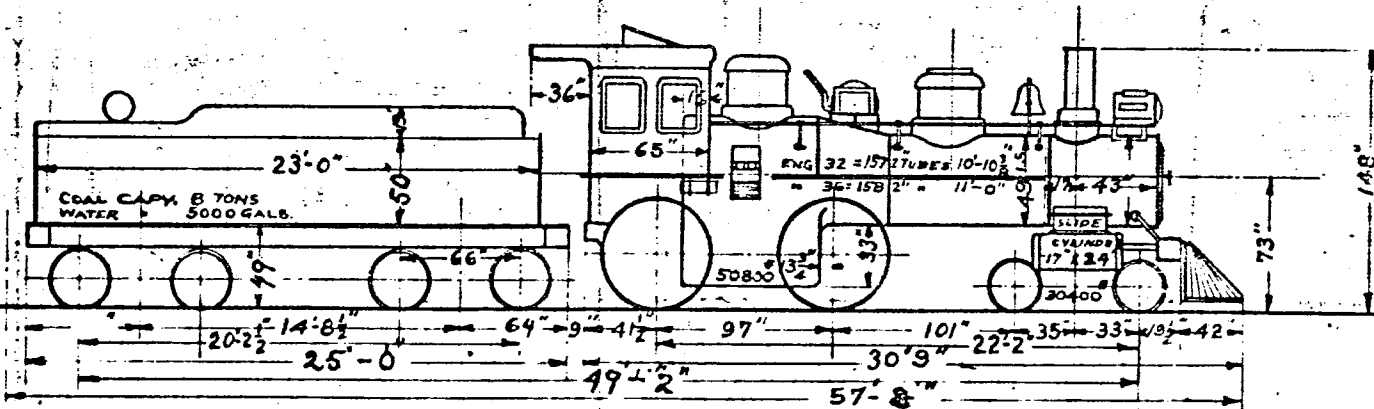
CYLINDERS	19" DIA 26" STROKE	WEIGHT ON DRIVERS	131000 LBS.	HEATING SURFACE TUBES	16125 sq ft
DIA. OF DRIVING WHEELS	50"	OF ENGINE	131000 "	FIREBOX	1605 sq ft
CENTERS	44"	TENDER (LOADED)	79250 "	TOTAL	1773 "
ENGINE TRUCK WHEELS	NONE	ENGINE & TENDER	210250 "	KIND OF REVERSE GEAR	LEVER
TENDER	33"	TRACTIVE POWER	28800 "		
TRAILER	NONE	FACTOR OF ADHESION	456		
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	3150 sq ft		

SEPT 1917

M.C.C. BY

EIGHT WHEEL ENGINE, TYPE 4-4-0 13%
 STEAM PRESSURE 140 LBS.
 BUILDER: BALDWIN LOCOMOTIVE WORKS.
 BUILT: 1876
 ENGINE No. 36,

ENG 32 - BOILER 49" I.S. DIA.
 " 36" " 47 1/2" I.S. DIA.

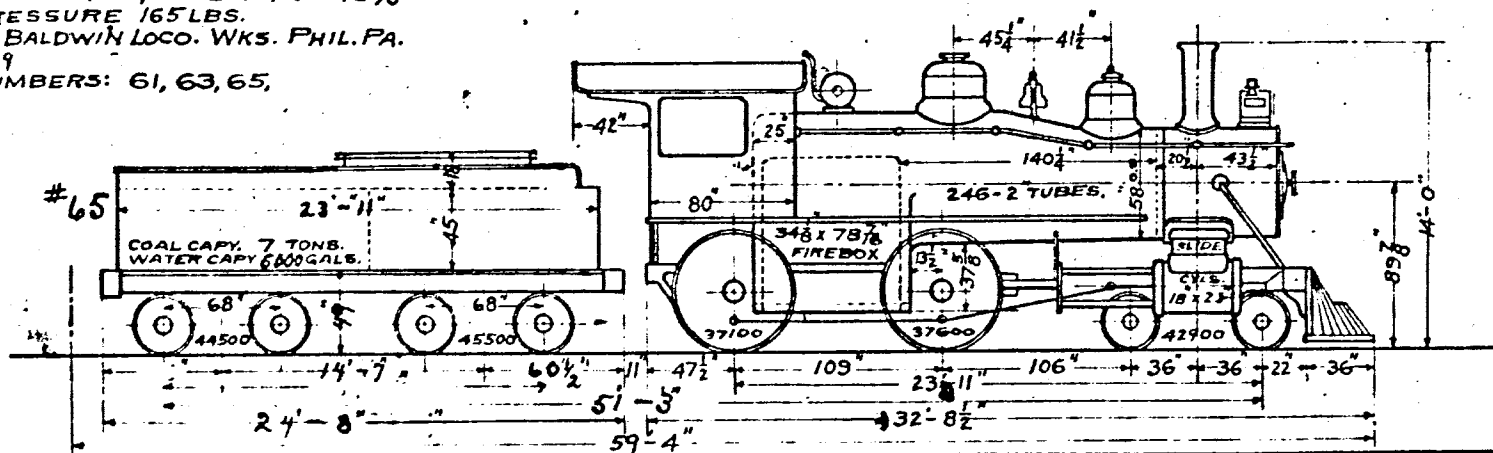


8-24-1918

CYLINDER	17 DIA. 24 STROKE	WEIGHT ON DRIVERS	50800 LBS.	HEATING SURFACE TUBES-SMALL	910 Sq. Ft.
DIA. OF DRIVING WHEELS	62"	" OF ENGINE	81200 LBS.	" " " LARGE	
" " " CENTERS	56"	" " TENDER-LOADED	90800 LBS.	" " FIREBOX	123 " "
" " ENGINE TRUCK WHEELS	28"	" " ENGINE & TENDER	171700 LBS.	" " TOTAL	1033 " "
" " TRAILING " "	NONE.	TRACTIVE POWER	13300 LBS.	" " SUPERHEATER	
" " TENDER " "	33"	FACTOR OF ADHESION	3.8	KIND OF REVERSE GEAR	LEVER
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	163 SQ. FT.	MAY 1917	M.O. & G. R.R.

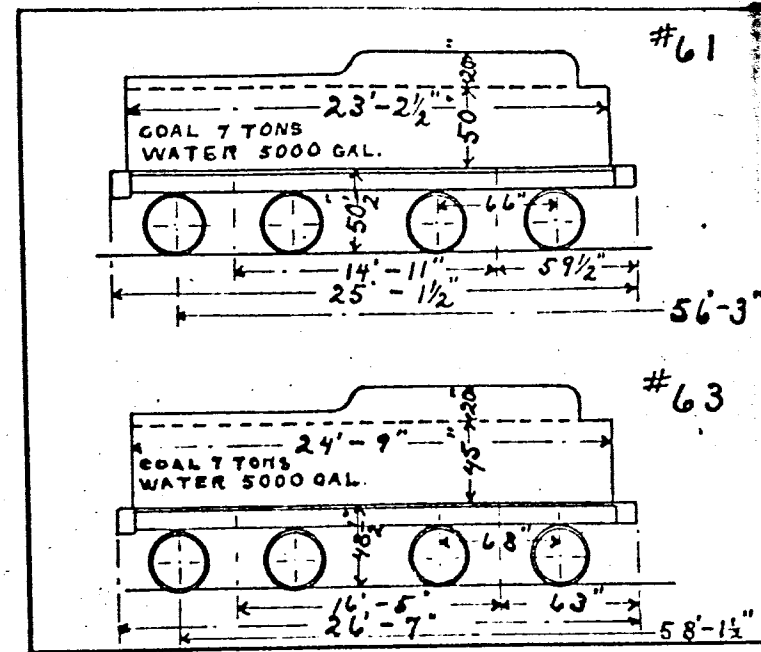
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EIGHT WHEEL ENGINE, TYPE 4-4-0 19%
 STEAM PRESSURE 165 LBS.
 BUILDER: BALDWIN LOCO. WKS. PHIL. PA.
 BUILT 1909
 ENGINE NUMBERS: 61, 63, 65,



CYLINDERS	18" DIA. 26" STROKE	WEIGHT ON DRIVERS	74700 LBS.	HEATING SURFACE TUBES-SMALL	1494.6 Sq. Ft.
DIA. OF DRIVING WHEELS	63	WEIGHT OF ENGINE	117100 LBS.	HEATING SURFACE TUBES-LARGE	---
DIA. OF DRIVING WHEEL CENTERS	56	WEIGHT OF TENDER-LOADED	90000 LBS.	HEATING SURFACE FIRE BOX	148.4 Sq. Ft.
DIA. OF ENGINE TRUCK WHEELS	30	WEIGHT OF ENGINE & TENDER	207100 LBS.	HEATING SURFACE TOTAL	1643. Sq. Ft.
DIA. OF TRAILING TRUCK WHEELS	---	TRACTION POWER	18700 LBS.	HEATING SURFACE SUPERHEATER	---
DIA. OF TENDER TRUCK WHEELS	33	FACTOR OF ADHESION	3.97	KIND OF REVERSE GEAR	LEVER.
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	18.5 Sq. Ft.		APRIL 1917
					M. O. & G. RY.

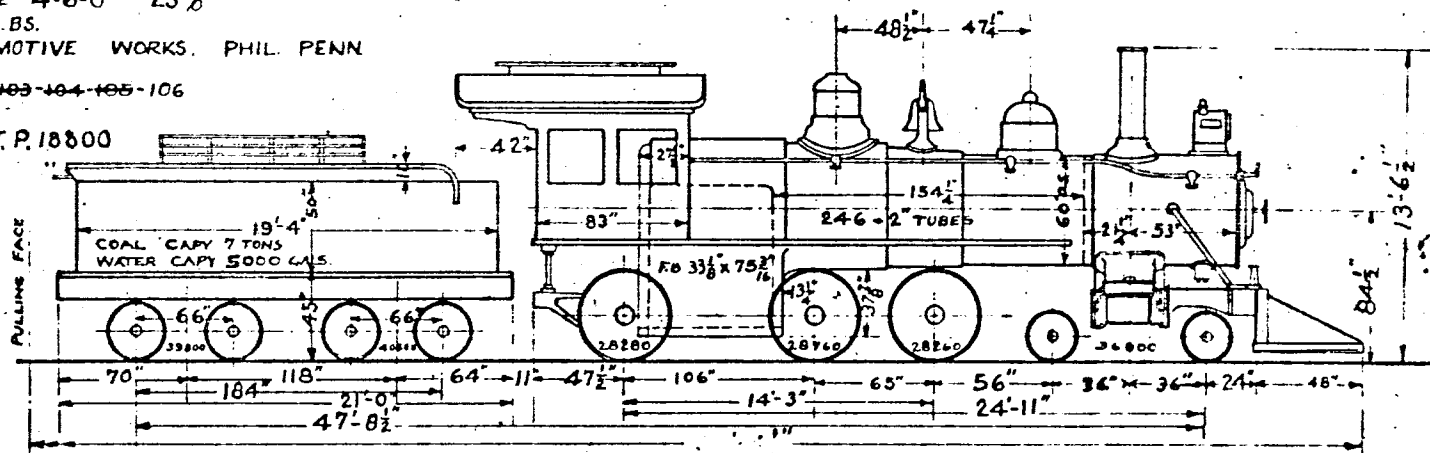
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TEN WHEEL ENGINE TYPE 4-6-0 23%
 STEAM PRESSURE 165 LBS.
 BUILDER: BALDWIN LOCOMOTIVE WORKS. PHIL. PENN.
 BUILT (SEE TABLE)
 ENGINE NUMBERS: 101-102-103-104-105-106

106, DIA. DRIV. WH. 58", T.P. 18800
 102 " " " " " " " "



BUILT	
101	11-1907
102	12-1907
103	12-1907
104	11-1908
105	4-1909
106	4-1909

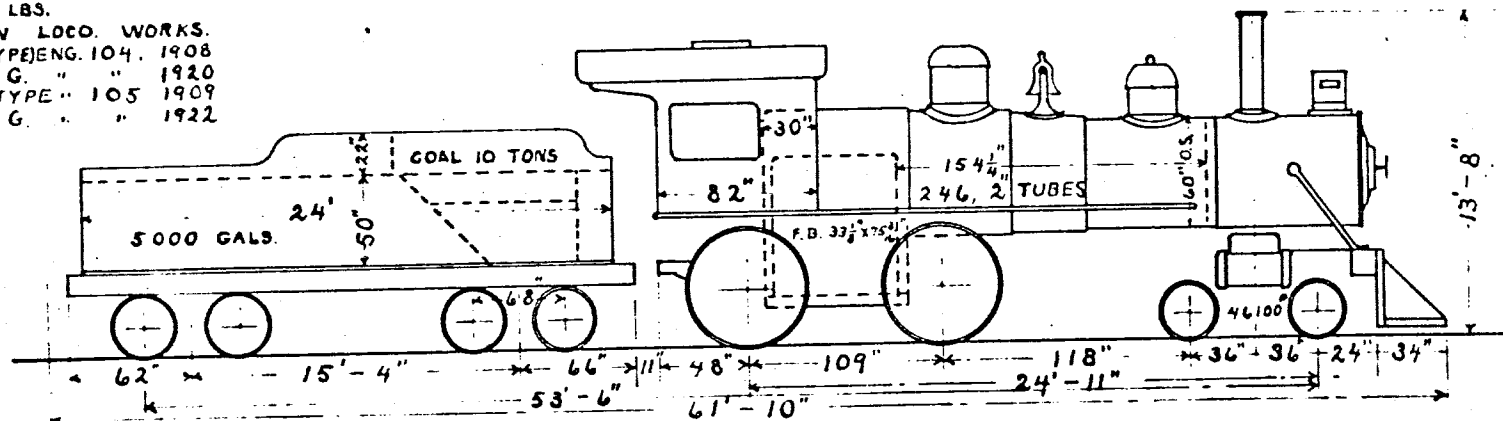
CYLINDER	18" DIA. 24" STROKE	WEIGHT ON DRIVERS	85300 LBS.	HEATING SURFACE TUBES - SMALL	1644 SQ. FT.
DIA. OF DRIVING WHEEL	58" (SEE ABOVE)	WEIGHT OF ENGINE	122100 LBS.	HEATING SURFACE TUBES - LARGE	
DIA. OF DRIVING WHEEL CENTERS	46"	WEIGHT OF TENDER-LOADED	80000 LBS.	HEATING SURFACE FIREBOX	144 " "
DIA. OF ENGINE TRUCK WHEELS	28"	WEIGHT OF ENGINE & TENDER	202100 LBS.	HEATING SURFACE TOTAL	1788 " "
DIA. OF TRAILING TRUCK WHEELS		TRACTIVE POWER	18800 LBS.	HEATING SURFACE SUPERHEATER	
DIA. OF TENDER TRUCK WHEELS	33"	FACTOR OF ADHESION	4.5	KIND OF REVERSE GEAR	LEVER
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	17.352 FT.		M&G R.R.

APRIL 1917

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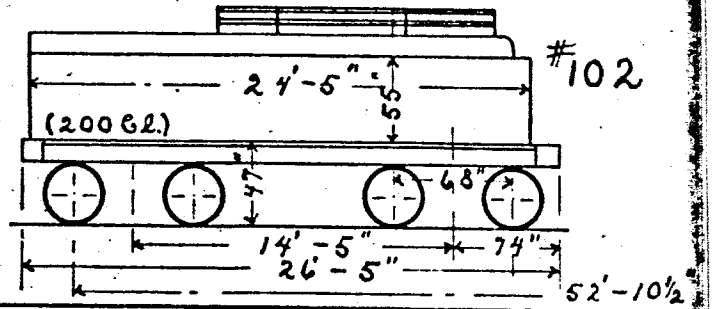
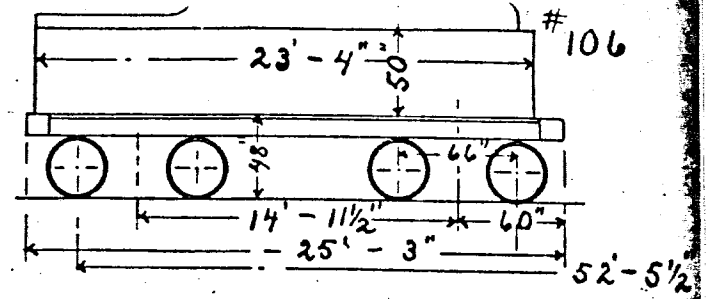
EIGHT WHEEL TYPE 4-4-0
 STEAM PRES. 180 LBS.
 BUILDERS BALDWIN LOCO. WORKS.
 BUILT (TEN WH TYPE) ENG. 104. 1908
 REBUILT BY K.O.G. " " 1920
 BUILT (TEN WH TYPE) " 105 1909
 REBUILT BY K.O.G. " " 1922

104
 105



CYLINDERS	18 x 24"	WEIGHT ON DRIVERS	74 700 LBS	HEATING SURFACE TUBES	1644 SQ. FT.
DIA. DRIVING WHEELS	63"	WEIGHT OF ENGINE	120800 "	HEATING SURFACE FIREBOX	144 "
DIA. DRIVING WH. CENTERS	56"	WEIGHT OF TENDER, LOADED	113700 "	HEATING SURFACE, TOTAL	1788 "
DIA. ENG. TRUCK WHEELS	28"	WEIGHT OF ENG. & TENDER	234500 "		
DIA. TENDER TRUCK WHEELS	33"	TRACTIVE POWER	18900 "		
VALVE MOTION	STEPHENSON	GRATE AREA	17.3 SQ. FT.		

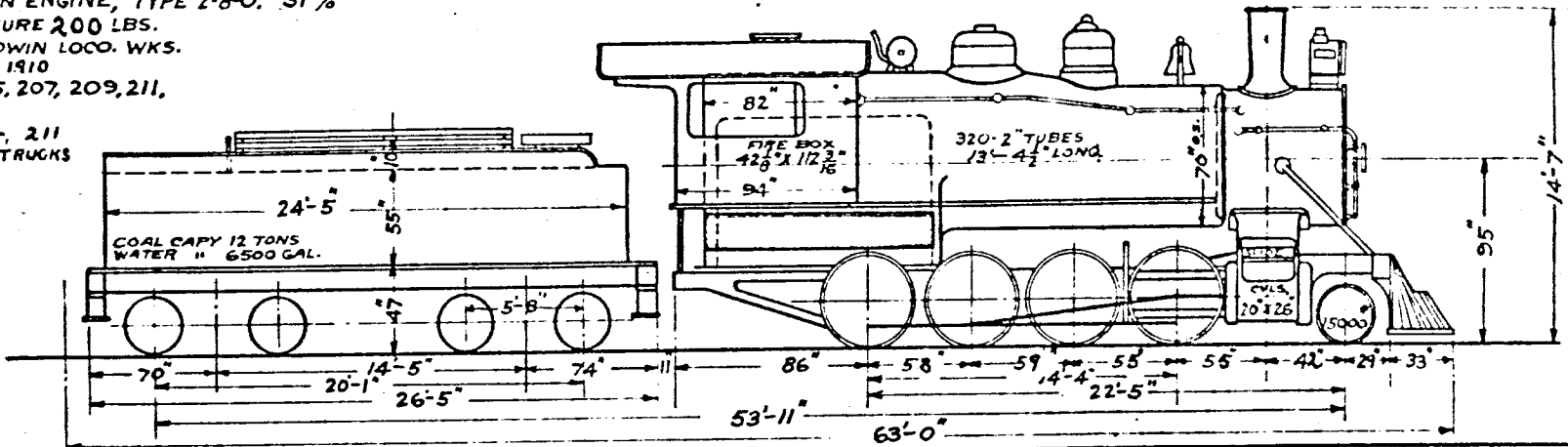
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CONSOLIDATION ENGINE, TYPE 2-8-0. 31 %
 STEAM PRESSURE 200 LBS.
 BUILDER, BALDWIN LOCO. WKS.
 BUILT, SEPT. 1910
 ENGS. No. 205, 207, 209, 211,

NOTE - 207, 211
 HAVE ENG TRUCKS
 REMOVED.



CYLINDERS	20" DIA. 26" STROKE	WEIGHT ON DRIVERS	15000 LBS	HEATING SURFACE TUBES	2229 Sq. Ft.
DIA. OF DRIVING WHEELS	52"	" OF ENGINE	16500 "	" " FIREBOX	186 "
" " " CENTERS	46"	" " TENDER (LOADED)	12500 "	" " TOTAL	2415 "
" " ENGINE TRUCK WHEELS	30"	" " ENGINE & TENDER	29000 "		
" " TENDER " "	33"	TRACTIVE POWER	34200 "	KIND OF REVERSE	LEVER
" " TRAILING " "	NONE	FACTOR OF ADHESION	4.8		
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	32 Sq. Ft.		

APRIL 1917 M.O. & G.R.Y.

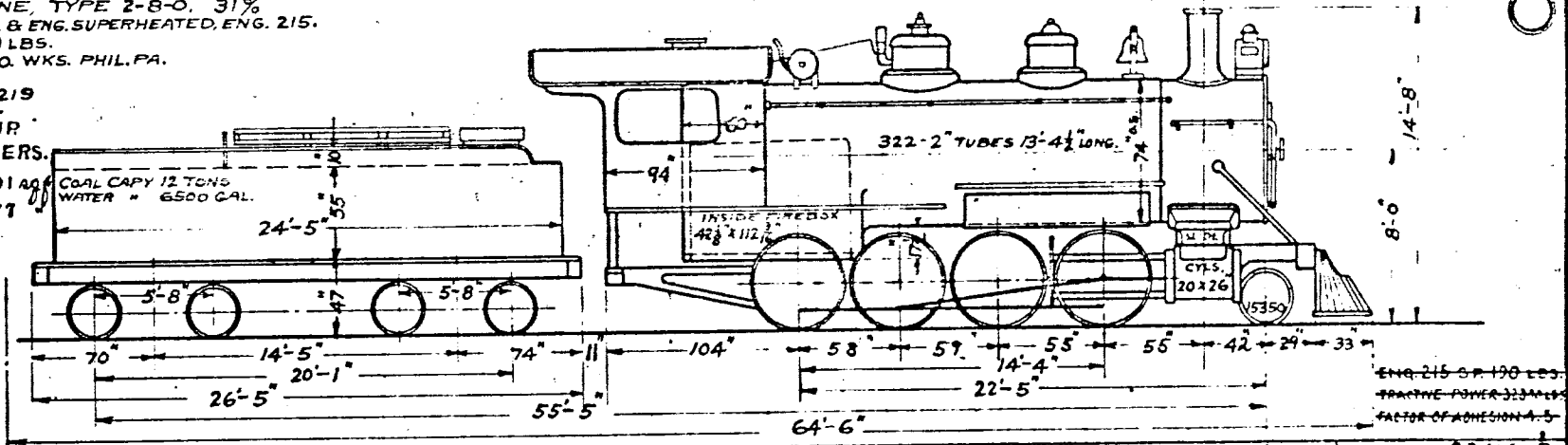
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CONSOLIDATION ENGINE, TYPE 2-8-0, 31%
 SIMPLIFIED CHEST APPLIED, & ENG. SUPERHEATED, ENG. 215.
 STEAM PRESSURE 200 LBS.
 BUILDER, BALDWIN LOCO. WKS. PHIL. PA.
 BUILT, MAY 1911
 ENGS. NO. 213-215-217-219

NOTE - ENGS. EQUIP.
 WITH SUPERHEATERS.

TUBES - SMALL 1201 AG
 " LARGE 477
 213
 215
 219

26, 5 3/8" TUBES
 175.2 "



ENG. 215 S.P. 190 LBS.
 TRACTIVE POWER 31344 LBS.
 FACTOR OF ADHESION 4.5

CYLINDERS	20" DIA. 26" STROKE	WEIGHT ON DRIVERS	147850 LBS.	HEATING SURFACE TUBES (SMALL)	2241 Sq. Ft.
DIA. OF DRIVING WHEELS	52"	" OF ENGINE	163000 "	" (LARGE) (SEE NOTE)	
" " " CENTERS	46"	" " TENDER (LOADED)	126800 "	" FIREBOX	175 " "
" " ENGINE TRUCK WHEELS	30"	" " ENGINE & TENDER	290000 "	" TOTAL	2416 " "
" " TRAILING "	NONE	TRACTIVE POWER	34200 "	" SUPERHEATER	
" " TENDER "	33"	FACTOR OF ADHESION	4.8		
KIND OF VALVE MOTION	SOUTHERN	GRATE AREA	32.8 Sq. Ft.		

APRIL 1917 M.O. & G. RY.

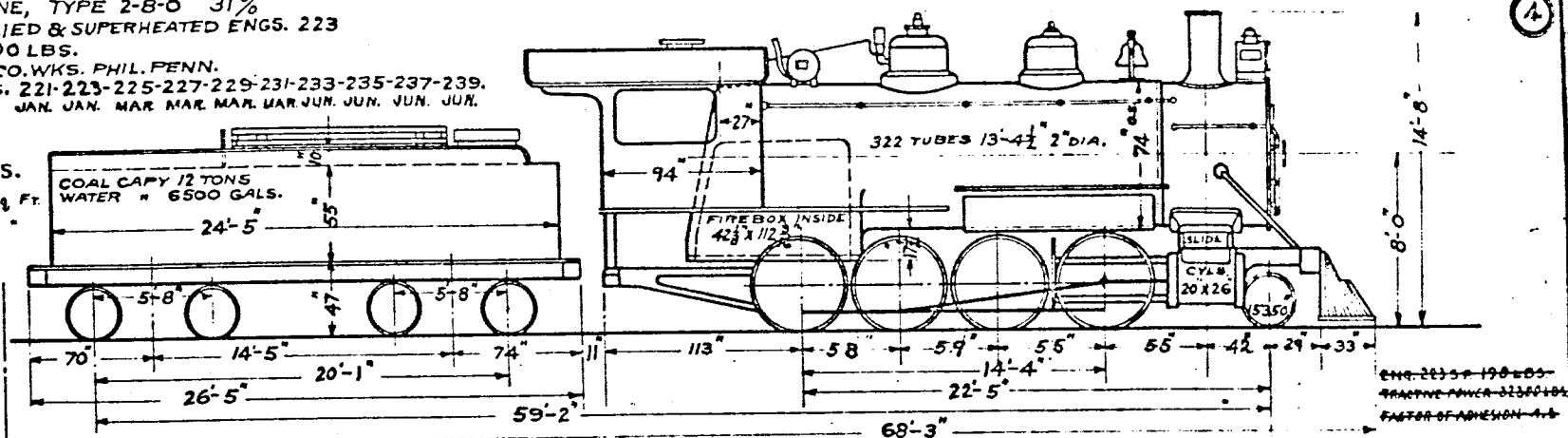
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 CONSOLIDATION, ENGINE, TYPE 2-8-0 31%
 SIMPLIFIED CHEST APPLIED & SUPERHEATED ENGS. 223
 STEAM PRESSURE 200 LBS.
 BUILDER: BALDWIN LOCO. WKS. PHIL. PENN.
 BUILT, 1912 ENGS. 221-223-225-227-229-231-233-235-237-239.
 JAN. JAN. MAR. MAR. MAR. MAR. JUN. JUN. JUN. JUN.

NOTE - ENGS. EQUIP
 WITH SUPERHEATERS.

TUBES SMALL 1201 Sq. Ft.
 " LARGE 477 "

223
 227
 229
 225
 233

26, 5 1/8" TUBES
 175, 2" "



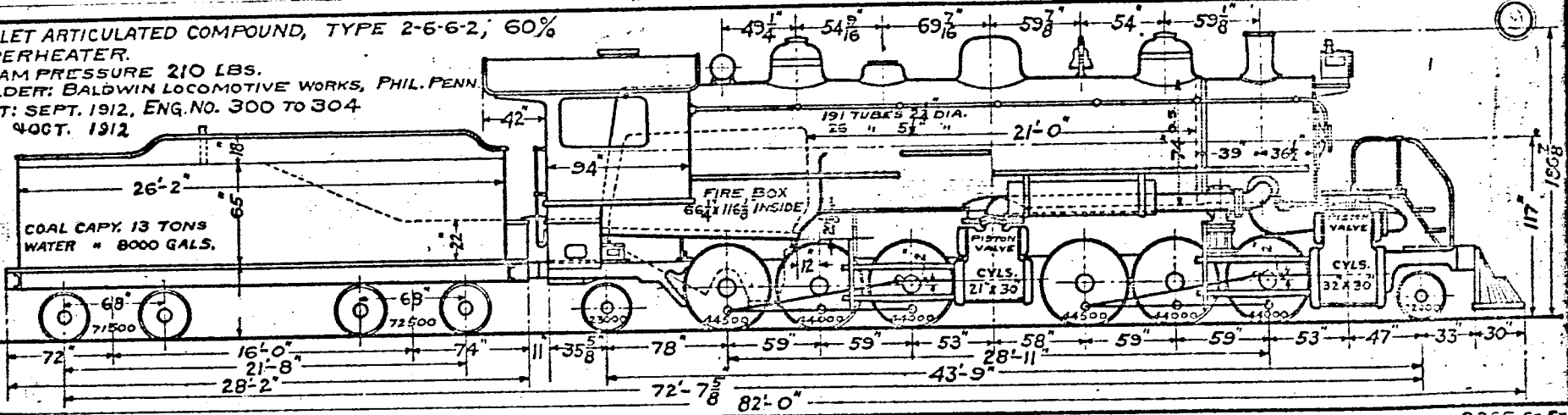
CYLINDERS.....	20" DIA. 26" STROKE	WEIGHT ON DRIVERS.....	147850 LBS.	HEATING SURFACE TUBES- SMALL.....	2241 Sq. Ft.
DIA. OF DRIVING WHEELS.....	52"	WEIGHT OF ENGINE.....	163200 "	HEATING SURFACE TUBES- LARGE (SEC. RATE)	
DIA. OF DRIVING WHEELS' CENTERS.....	46"	WEIGHT OF TENDER- LOADED.....	126800 "	HEATING SURFACE FIREBOX.....	175 "
DIA. OF ENGINE TRUCK WHEELS.....	30"	WEIGHT OF ENGINE & TENDER.....	290000 "	HEATING SURFACE TOTAL.....	2416 "
DIA. OF TRAILING TRUCK WHEELS.....	NONE	TRACTIVE POWER.....	34200 "	HEATING SURFACE SUPERHEATER.....	
DIA. OF TENDER TRUCK WHEELS.....	33"	FACTOR OF ADHESION.....	4.8		
KIND OF VALVE MOTION.....	SOUTHERN	GRATE AREA.....	32.8 Sq. Ft.		

APRIL 1917

M. O. & G. RY

MALLET ARTICULATED COMPOUND, TYPE 2-6-6-2; 60%
 SUPERHEATER.
 STEAM PRESSURE 210 LBS.
 BUILDER: BALDWIN LOCOMOTIVE WORKS, PHIL. PENN.
 BUILT: SEPT. 1912, ENG. NO. 300 TO 304
 4 OCT. 1912

Truck 5 Cyls (1916) on
 307 - 308 - 303



CYLINDERS - COMPOUND	21' & 32" DIA. 30" STROKE	WEIGHT ON DRIVERS	265000 LBS.	HEATING SURFACE TUBES - SMALL	2366 Sq Ft.
DIA. OF DRIVING WHEELS	55"	WEIGHT OF ENGINE	310000 LBS.	HEATING SURFACE TUBES - LARGE	843 "
DIA. OF DRIVING WHEEL CENTERS	48"	WEIGHT OF TENDER - LOADED	144000 LBS.	HEATING SURFACE FIRE BOX	198 "
DIA. OF ENGINE TRUCK WHEELS	30"	WEIGHT OF ENGINE & TENDER	454000 LBS.	HEATING SURFACE TOTAL	3407 "
DIA. OF TRAILING TRUCK WHEELS	30"	TRACTIVE POWER	60000 LBS.	HEATING SURFACE SUPERHEATER	685 "
DIA. OF TENDER TRUCK WHEELS	33"	FACTOR OF ADHESION	4.4	BALDWIN POWER REVERSE GEAR.	
KIND OF VALVE MOTION	WALSCHAERT	GRATE AREA	53.4 Sq. Ft.	APRIL 1917	M. O. & G. RY.

