

# DESCRIPTION OF LOCOMOTIVES

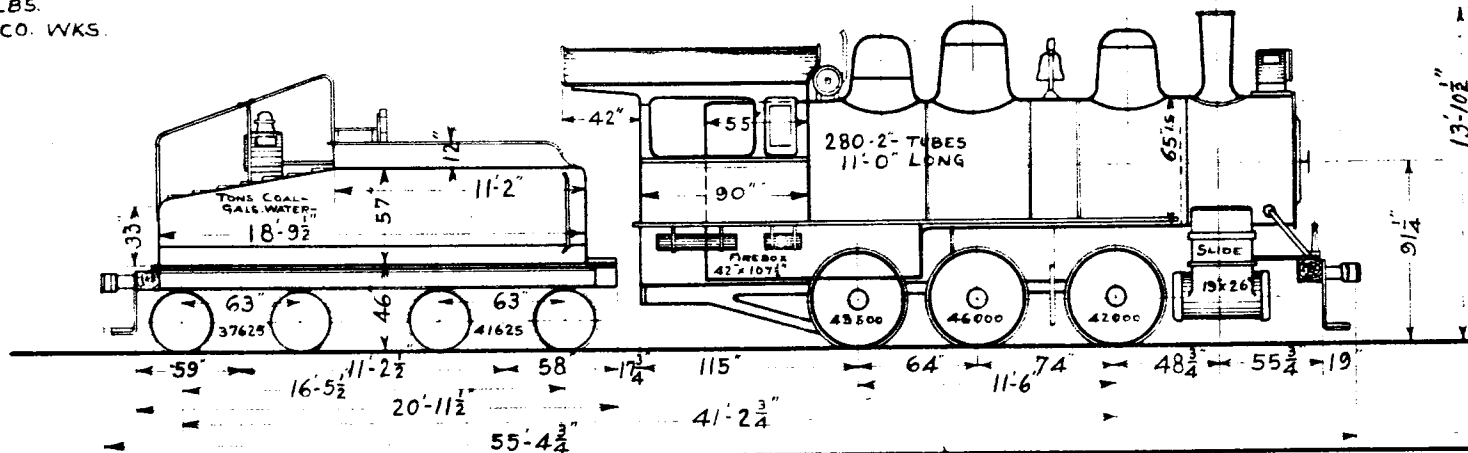
M.O.&G. RY SYSTEM

K.

1917

→ File No 538-6

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



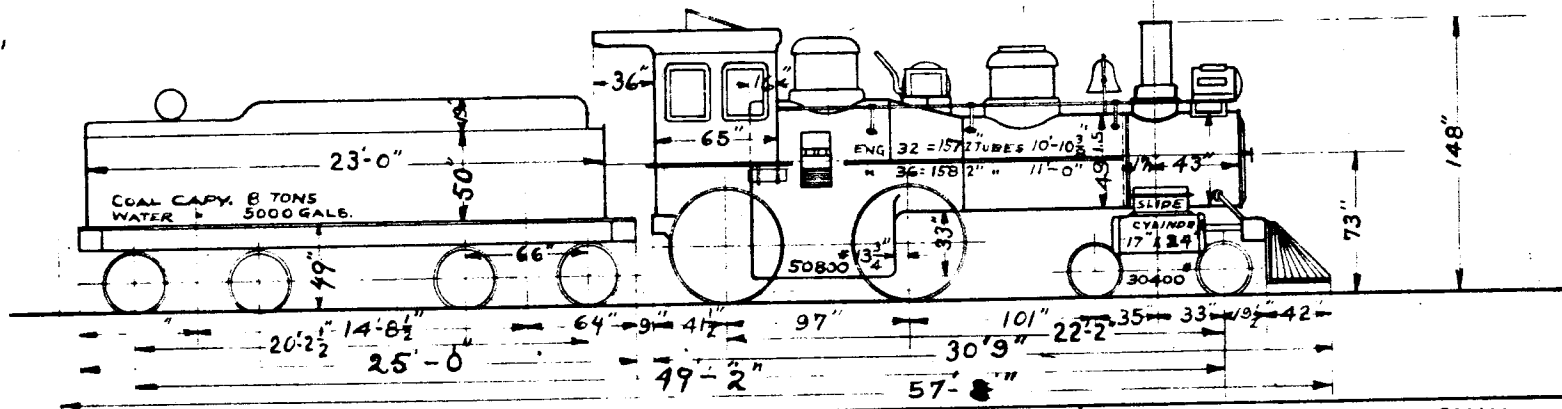
CYLINDERS	19" DIA 26" STROKE	WEIGHT ON DRIVERS	131000 LBS.	HEATING SURFACE TUBES	16125 SQ. FT.
DIA. OF DRIVING WHEELS	50"	OF ENGINE	131000 "	FIREBOX	1605 SQ. FT.
CENTERS	44"	TENDER (LOADED)	79250 "	TOTAL	1773 "
ENGINE TRUCK WHEELS	NONE	ENGINE & TENDER	210250 "	KIND OF REVERSE GEAR	LEVER
TENDER	33"	TRACTIVE POWER	28800 "		
TRAILER	NONE	FACTOR OF ADHESION	4.56		
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	31.59 SQ. FT.		

SEPT. 1917

M. O. & G. RY.

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

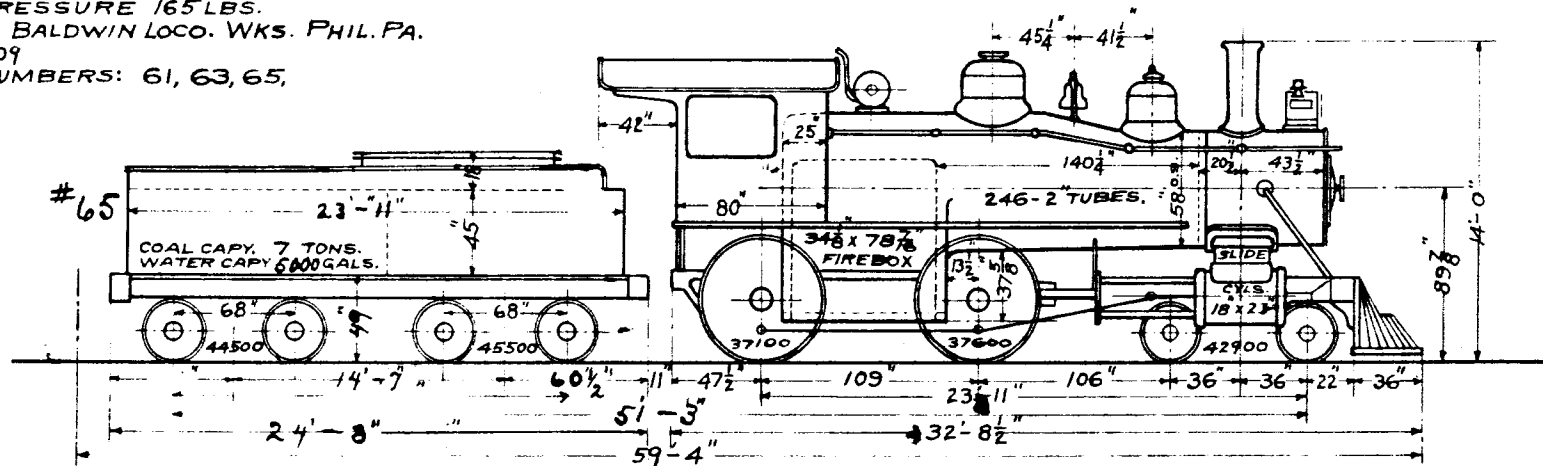
ENG 32 - BOILER 45" I.S. DIA.  
 " 36 = " 47 1/4" I.S. DIA.



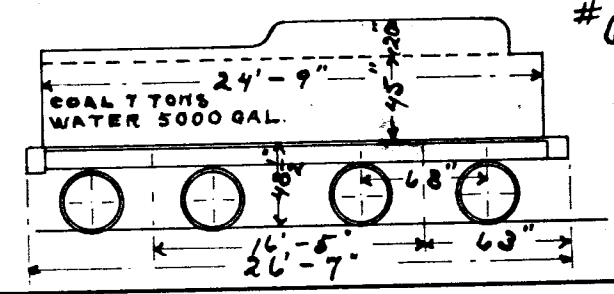
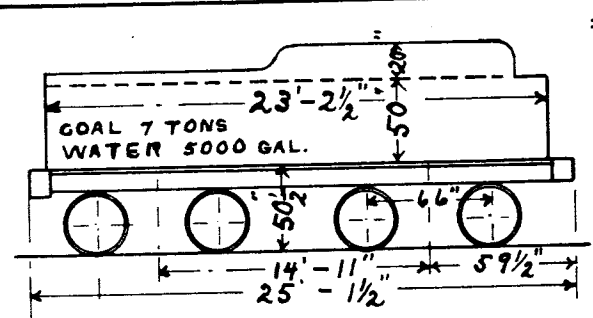
8-24-1918

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	165 sq. ft.	MAY 1917	M. O. & G. R. R.

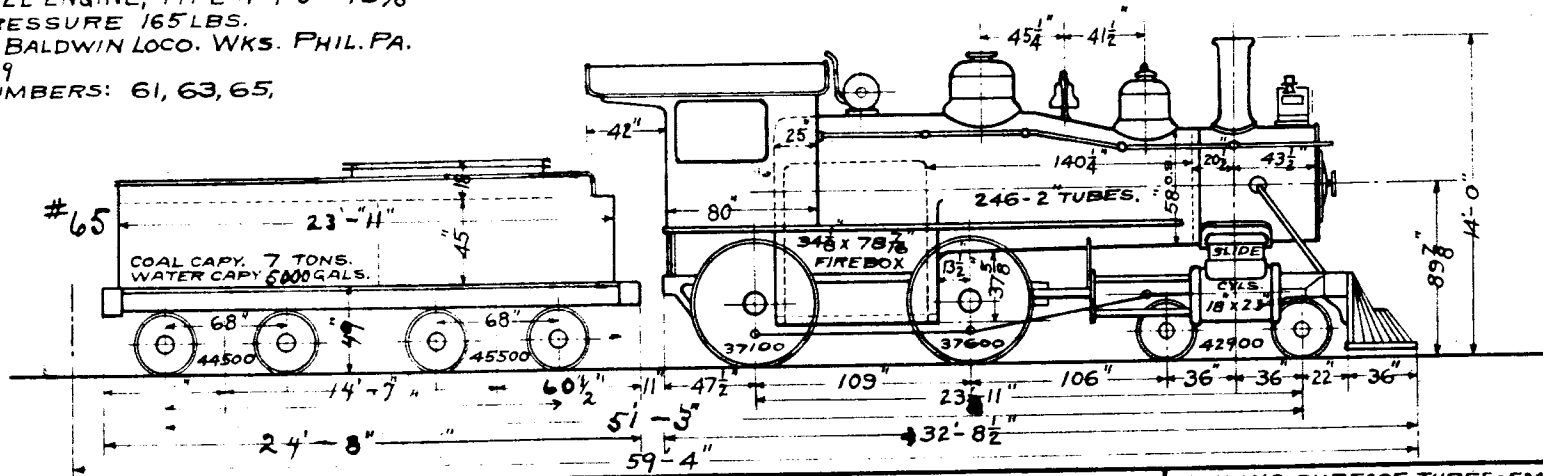
EIGHT WHEEL ENGINE, TYPE 4-4-0 19%  
 STEAM PRESSURE 165 LBS.  
 BUILDER: BALDWIN LOCO. WKS. PHIL. PA.  
 BUILT: 1909  
 ENGINE NUMBERS: 61, 63, 65,



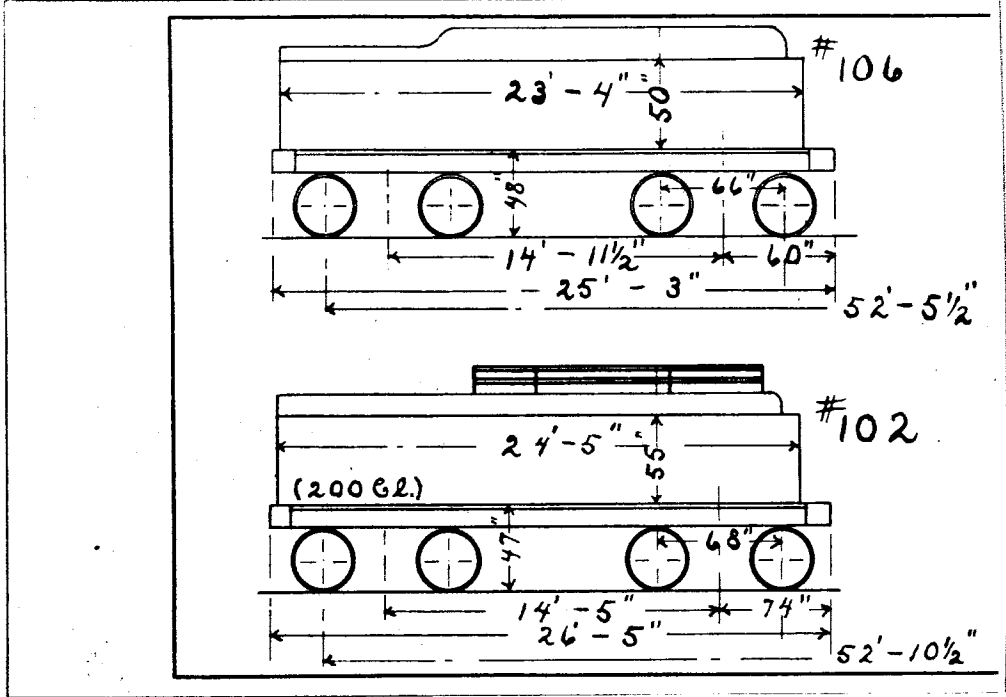
CYLINDERS	18" DIA. 26" STROKE	WEIGHT ON DRIVERS	74700 LBS.	HEATING SURFACE TUBES-SMALL	1494.6 Sq. Ft.
DIA. OF DRIVING WHEELS	63"	WEIGHT OF ENGINE	117100 LBS.	HEATING SURFACE TUBES-LARGE	---
DIA. OF DRIVING WHEEL CENTERS	56"	WEIGHT OF TENDER-LOADED	90000 LBS.	HEATING SURFACE FIREBOX	148.4 Sq. Ft.
DIA. 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.



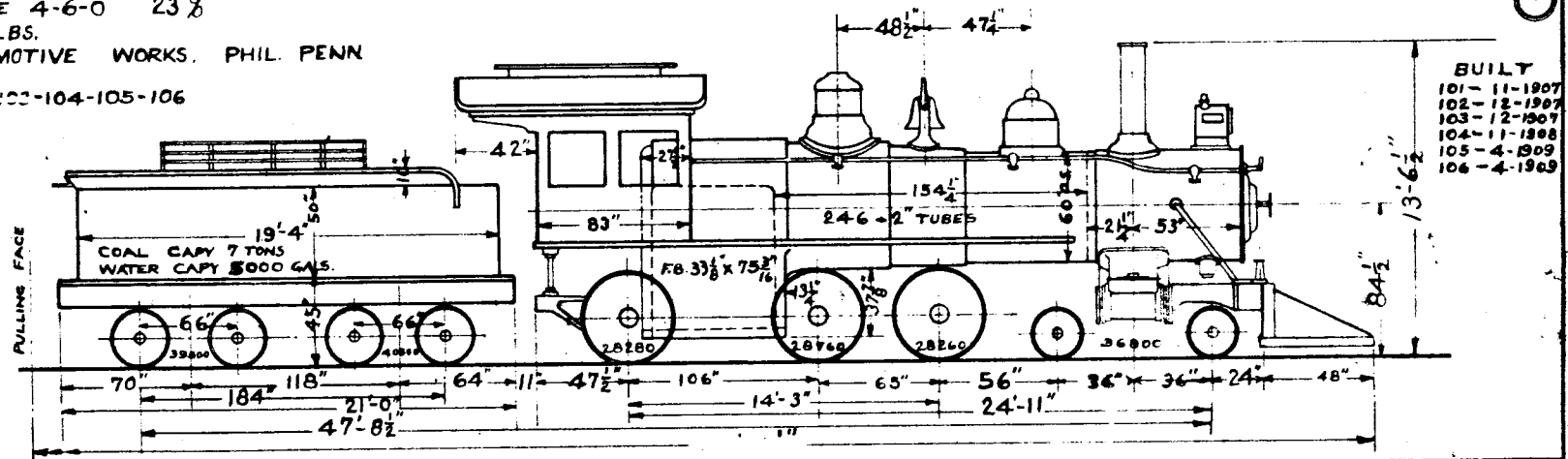
EIGHT WHEEL ENGINE, TYPE 4-4-0 19%  
 STEAM PRESSURE 165 LBS.  
 BUILDER: BALDWIN LOCO. WKS. PHIL. PA.  
 BUILT: 1909  
 ENGINE NUMBERS: 61, 63, 65



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	148.4 Sq.Ft.
DIA. OF DRIVING WHEEL CENTERS	56"	WEIGHT OF TENDER-LOADED	90000 LBS.	HEATING SURFACE FIREBOX	1643. 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	30"	TRACTIVE 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.



TEN WHEEL ENGINE TYPE 4-6-0 23 3/8  
 STEAM PRESSURE 165 LBS.  
 BUILDER: BALDWIN LOCOMOTIVE WORKS, PHIL. PENN.  
 BUILT: (SEE TABLE)  
 ENGINE NUMBERS: 101-102-103-104-105-106

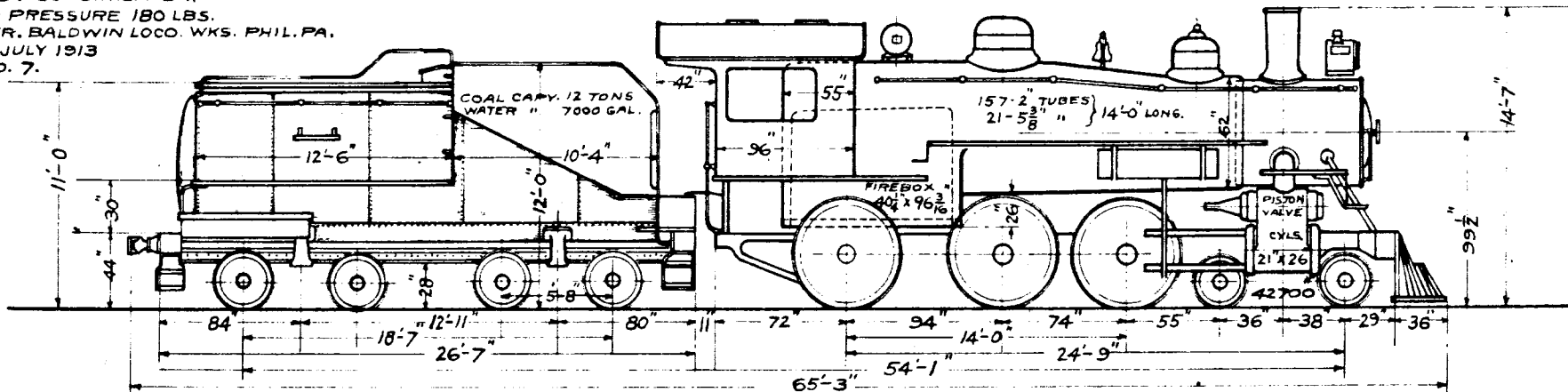


BUILT  
 101-11-1907  
 102-12-1907  
 103-12-1907  
 104-11-1908  
 105-4-1909  
 106-4-1909

CYLINDER	18" DIA. 24" STROKE	WEIGHT ON DRIVERS	85300 LBS.	HEATING SURFACE TUBES - SMALL	1644 SQ. FT.
DIA. OF DRIVING WHEEL	52"	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	27000 LBS.	HEATING SURFACE SUPERHEATER	
DIA. OF TENDER TRUCK WHEELS	33"	FACTOR OF ADHESION	3.7	KIND OF REVERSE GEAR	LEVER
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	17.354 FT.		APRIL 1917
					M O & G R R



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.



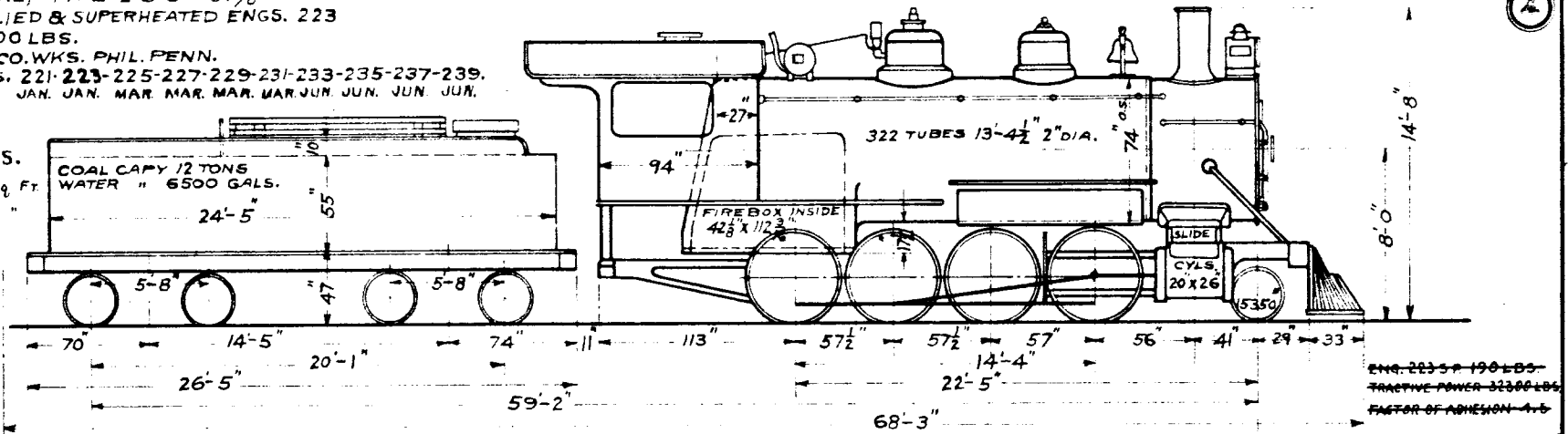
CYLINDERS	2 1" DIA. 26" STROKE	WEIGHT ON DRIVERS	116000 LBS	HEATING SURFACE TUBES (SMALL)	1150 Sq. Ft.
DIA. OF DRIVING WHEELS	64"	WEIGHT OF ENGINE	158700 LBS	HEATING SURFACE TUBES (LARGE)	375 " "
DIA. OF DRIVING WHEEL CENTERS	58"	WEIGHT OF TENDER (LOADED)	131300 LBS	HEATING SURFACE FIREBOX	161 " "
DIA. 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.

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. JUN. JUN. JUN. JUN.

NOTE - ENGS. EQUIP.  
 WITH SUPERHEATERS.

TUBES SMALL 1201 Sq. Ft.  
 " LARGE 477 "

223  
 227



ENG. 223 57 198 LBS.  
 TRACTIVE POWER 32300 LBS.  
 FACTOR OF ADHESION 4.8

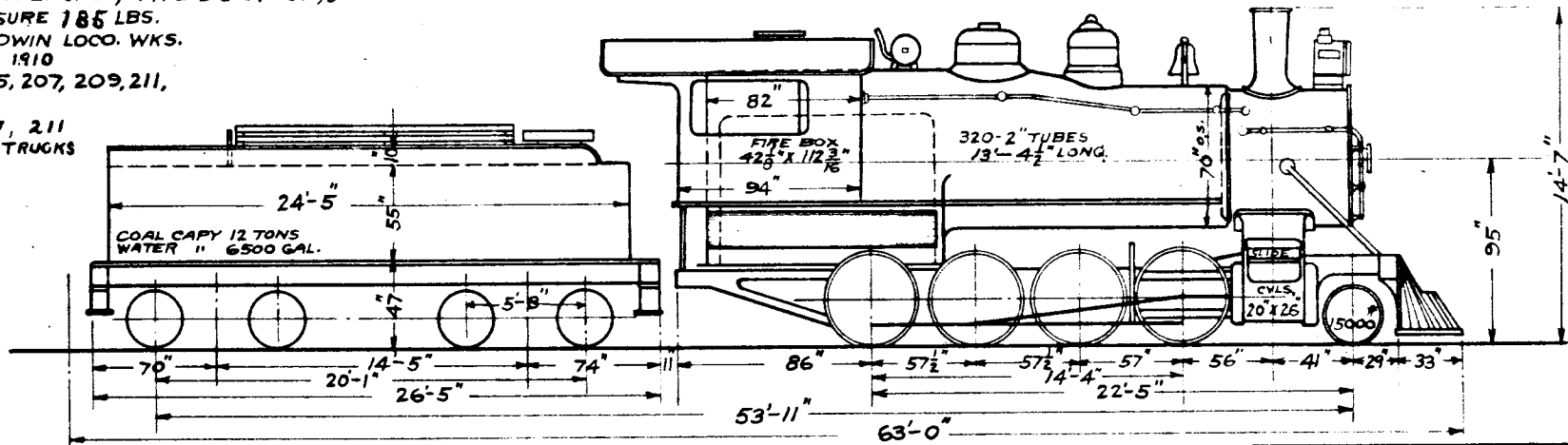
CYLINDERS.....	20" DIA. 26" STROKE	WEIGHT ON DRIVERS.....	147850 LBS.	HEATING SURFACE TUBES- SMALL.....	2241 Sq. Ft.
DIA. OF DRIVING WHEELS.....	52"	WEIGHT OF ENGINE.....	163200 "	HEATING SURFACE TUBES- LARGE (SEE NOTE)	
DIA. OF DRIVING WHEELS CENTERS.....	46"	WEIGHT OF TENDER-LOADED.....	126800 "	HEATING 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.....	STEPHENSON	GRATE AREA.....	32.8 Sq. Ft.		

APRIL 1917

M. O. & G. RY.

**CONSOLIDATION ENGINE, TYPE 2-8-0. 31 %**  
**STEAM PRESSURE 185 LBS.**  
**BUILDER, BALDWIN LOCO. WKS.**  
**BUILT, SEPT. 1910**  
**ENGS. No. 205, 207, 209, 211,**

**NOTE - 207, 211**  
**HAVE ENG. TRUCKS**  
**REMOVED.**



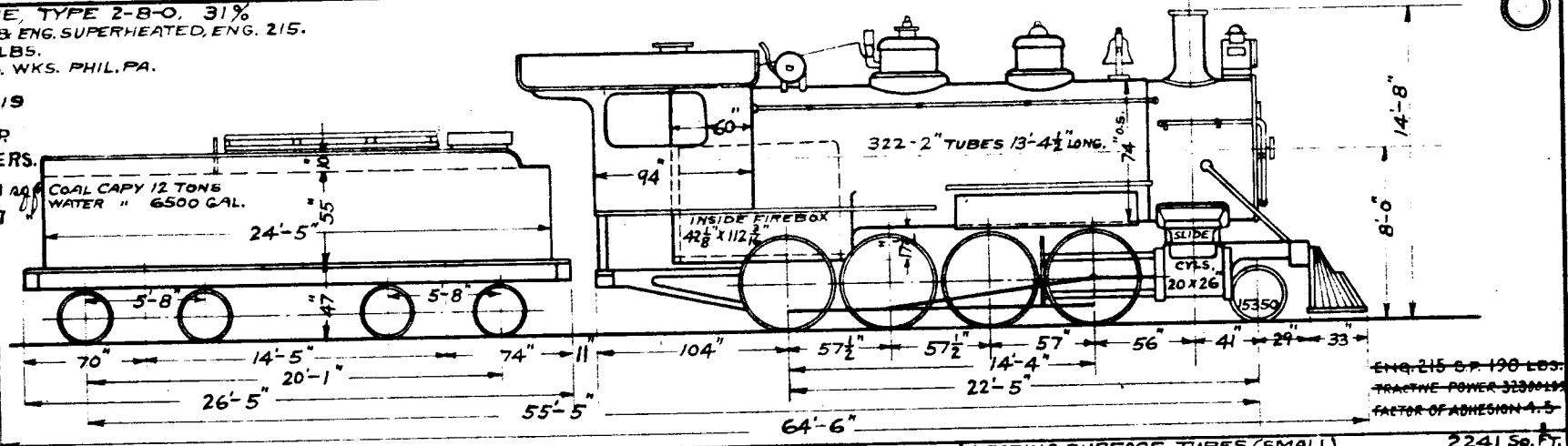
CYLINDERS	20" DIA. 26" STROKE	WEIGHT ON DRIVERS	15000 LBS	HEATING SURFACE TUBES	2229 Sq. Ft.
DIA. OF DRIVING WHEELS	52"	" OF ENGINE	165000 "	" " FIREBOX	186 " "
" " " " CENTERS	46"	" " TENDER (LOADED)	125000 "	" " TOTAL	2415 " "
" " ENGINE TRUCK WHEELS	30"	" " ENGINE & TENDER	290000 "	KIND OF REVERSE	LEVER
" " TENDER " "	33"	TRACTIVE POWER	31600 "		
" " TRAILING " "	NONE	FACTOR OF ADHESION	4.8		
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	32 Sq. Ft.		

APRIL 1917 M.O. & G. RY.

CONSOLIDATION ENGINE, TYPE 2-B-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.

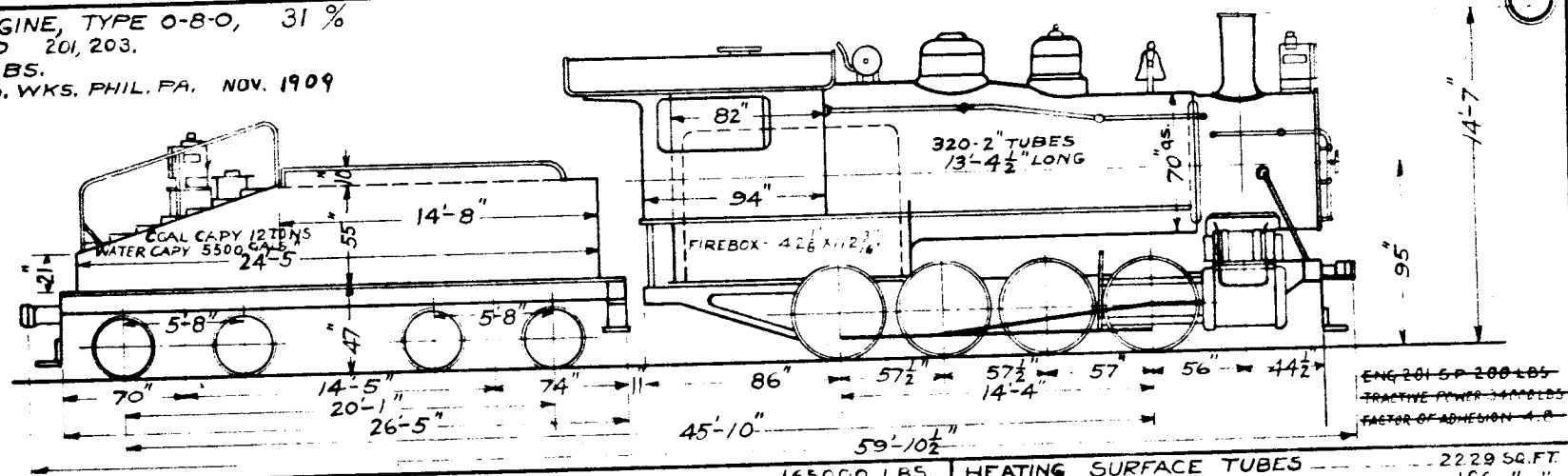
TUBES - SMALL 1201  
 " LARGE 477  
 213  
 215



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	STEPHENSON	GRATE AREA	32.8 Sq. Ft.		

APRIL 1917 M.O. & G. RY.

EIGHT WHEEL SWITCH ENGINE, TYPE 0-8-0, 31 %  
 SIMPLIFIED CHEST APPLIED 201, 203.  
 STEAM PRESSURE 185 LBS.  
 BUILDER, BALDWIN LOCO. WKS. PHIL. PA. NOV. 1909  
 ENGINE NOS. 201 203.

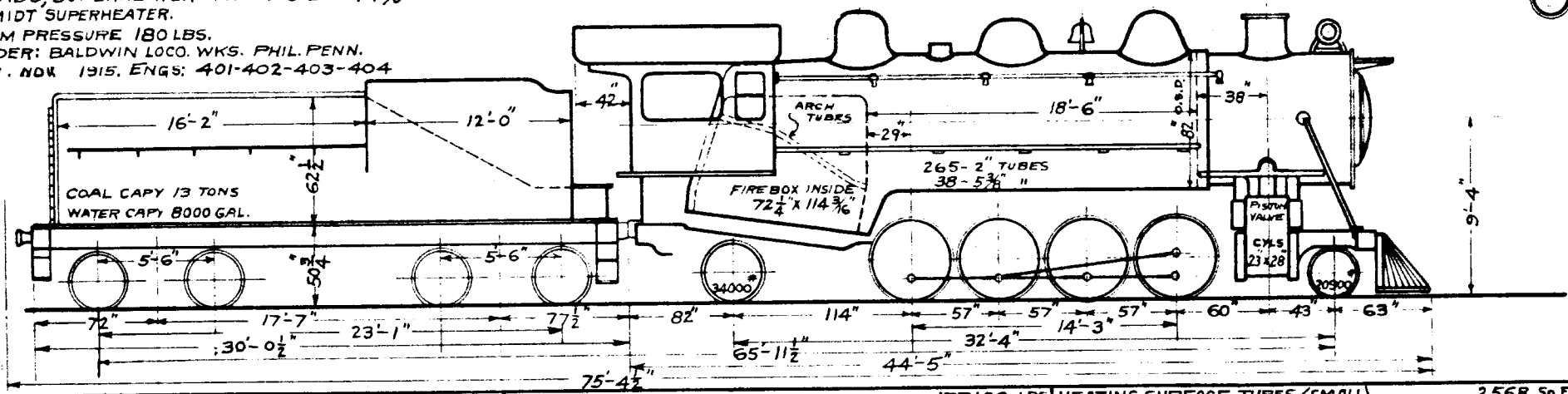


ENG 201-5P-200 LBS  
 TRACTIVE POWER 3440 LBS  
 FACTOR OF ADHESION 4.8

CYLINDERS	20" DIA. 26 STROKE	WEIGHT ON DRIVERS	16500 LBS.	HEATING SURFACE TUBES	2229 SQ. FT.
DIA. OF DRIVING WHEELS	52"	" OF ENGINE	16500 "	" FIREBOX	186 " "
" " " CENTERS	46"	" " TENDER (LOADED)	116700 "	" TOTAL	2415 " "
" " ENGINE TRUCK WHEELS	NONE	" " ENGINE & TENDER	281700 "	KIND OF REVERSE	ENG 201-RAGONNET - ENG 203-LEVER
" " TENDER	33"	TRACTIVE POWER	31600 "		
" " TRAILING	NONE	FACTOR OF ADHESION	5.2		
KIND OF VALVE MOTION	STEPHENSON	GRATE AREA	32 SQ. FT.		

APRIL 1917 MO & G RY.

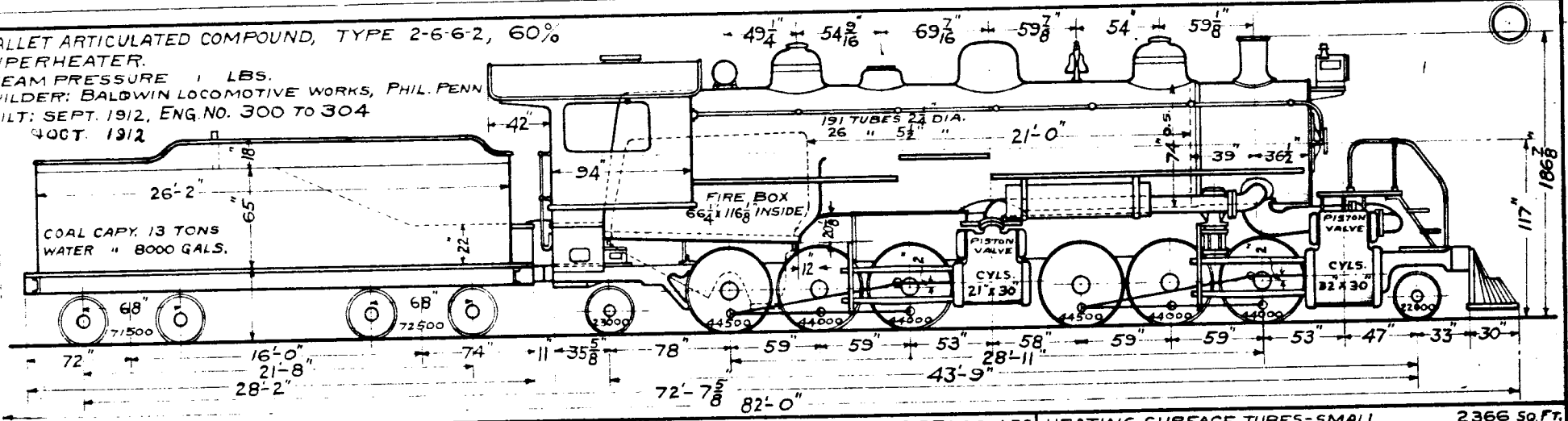
MIKADO, SUPERHEATER TYPE 2-8-2 44%  
 SCHMIDT SUPERHEATER.  
 STEAM PRESSURE 180 LBS.  
 BUILDER: BALDWIN LOCO. WKS. PHIL. PENN.  
 BUILT. NOV. 1915. ENGS: 401-402-403-404



CYLINDERS.....	23" DIA. X 28" STROKE	WEIGHT ON DRIVERS.....	177100 LBS.	HEATING SURFACE TUBES (SMALL).....	2568 Sq. Ft.
DIA. OF DRIVING WHEEL.....	52"	" OF ENGINE.....	232000 "	" " " (LARGE).....	972 " "
" " " CENTERS.....	46"	" " TENDER (LOADED).....	154000 "	" " FIREBOX & ARCH TUBES.....	238 " "
" " ENGINE TRUCK WHEEL.....	30"	" " ENGINE & TENDER.....	386000 "	" " TOTAL.....	3778 " "
" " TRAILING " ".....	36"	TRACTIVE POWER.....	43600	" " SUPERHEATER.....	838 " "
" " TENDER " ".....	33"	FACTOR OF ADHESION.....	4.06	KIND OF REVERSE GEAR.....	LAGONNET
KIND OF VALVE MOTION.....	SOUTHERN.	GRATE AREA.....	57.2 SQ. FT.	APRIL 1917.....	MO. & G. RY.

MALLET ARTICULATED COMPOUND, TYPE 2-6-6-2, 60% SUPERHEATER.

STEAM PRESSURE 1 LBS.  
 BUILDER: BALDWIN LOCOMOTIVE WORKS, PHIL. PENN.  
 BUILT: SEPT. 1912, ENG. NO. 300 TO 304  
 OCT. 1912



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.