

BOOK NO. 25

THE NEW YORK, CHICAGO AND ST. LOUIS RAILROAD CO.

NICKEL PLATE ROAD  
LOCOMOTIVE DIAGRAMS

ADVISORY MECHANICAL COMMITTEE

CLEVELAND-OHIO

JUNE-1942

N. K. P. - LOCOMOTIVES - GENERAL INDEX

PREFIX-1

PAGE	DESCRIPTION
1 TO 4	INDEX OF LOCOMOTIVES BY NUMBERS
5	RECAPITULATION BY CLASSES
6	LOCOMOTIVES BY CLASSES
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R.L.A.

JAN-10-1938 6-13-'39 2-1-'41

N. K. P. — CHANGES IN TENDER ASSIGNMENT —					PREFIX PAGE-2				
ENG. CLASS	ENG. NUMBER	DIAGRAM ON PAGE	NOW HAS TENDER	TENDER ON PAGE	ENG. CLASS	ENG. NUMBER	DIAGRAM ON PAGE	NOW HAS TENDER	TENDER ON PAGE
G-44	377	26	7-RY-5087	22	H-6E	654	33-C	10-RF-5235	33-D
H-5A	502	27	8-RL-5187	27-A	H-6-D	598	35	22-RA-6093	35-A
H-6A	604	29	22-RA-6076	33-A	H-5-B	527	28	8-RX-5209	27-B
H-6D	617	32	12-RC-5350	32-A					
H-6D	618	32	12-RC-5351	32-A					
H-6D	628	32	13-RA-5411	32-D					
H-6E	652	33-C	10-RG-5282	28					
H-6E	661	33-D	16-RA-5451	33					
H-6F	670	34-A	13-RA-5408	32-E					
H-6F	671	34-A	13-RA-5407	32-E					
H-6F	662	34-A	13-RA-5410	32-E					
H-6D	631	32-A	13-RA-5406	32-B					
H-6D	588	35	16-RC-5466	34-C					
H-6A	603	29	13-RA-5409	30-B					
H-6A	605	29-A	16-RC-5468	29					
H-6A	609	29-A	22-RA-6096	33-A					
H-6A	610	29-A	22-RA-6089	33-A					
H-6E	653	33-C	10-RF-5257	29-A					

JAN-30-1944

N. K. P. — ENGINES BY NUMBERS

DIESELS

ENG.	CLASS	PAGE
1	DE-3	7
2	"	"
3	"	"
4	"	"
5	"	"
6	"	"
7	DE-2	7-A
8	"	"
9	"	"
10	"	"
16	B-12	16
17	"	"
49	B-7	8
50	B-11A	12
51	"	"
52	"	"
53	"	"
54	"	"
55	"	"

ENG.	CLASS	PAGE
56	B-11A	12
57	"	"
58	"	12-A
59	"	12
60	B-11B	13
61	"	"
62	"	"
63	"	"
64	"	"
65	"	"
66	"	"
67	"	"
68	"	"
69	"	"
70	B-11C	14
71	"	"
72	"	"
73	"	"
74	"	"
75	"	"
75	"	"

ENG.	CLASS	PAGE
77	B-11C	14
78	"	"
79	"	"
80	B-11D	15
81	"	"
82	"	"
94	B-10	11
95	"	11-A
96	"	11
97	"	11-A
98	"	11
99	"	11
103	B-9A	9
107	"	9
114	B-9B	10
115	"	10
121	"	10
122	"	10
152	R	43
154	"	43-A

ENG.	CLASS	PAGE
155	R	43
156	"	43-B
157	"	"
158	"	"
160	K-1A	36
161	"	"
162	"	"
163	"	"
164	K-1B	37
165	"	"
166	"	"
167	"	"
168	"	"
169	"	"
170	L-1A	38
171	"	38-A
172	"	"
173	"	"
174	L-1B	38-A
175	"	"
176	"	38-A

ENG.	CLASS	PAGE
177	L-1B	38-A
200	U-2	45
201	"	"
202	"	"
203	"	"
204	"	"
205	U-3A	46
206	"	"
207	"	"
210	U-3B	47
211	"	"
212	"	"
213	"	"
214	"	"
215	"	"
216	"	"
217	"	"
218	"	"
219	"	"

N. K. P. — ENGINES BY NUMBERS

ENG.	CLASS	PAGE
220	U-3C	48
221	"	48
222	"	"
223	"	"
224	"	"
225	"	"
226	"	"
227	"	"
228	"	"
229	"	"
300	C-17	17
301	"	"
302	"	"
303	"	"
304	"	"
377	G-44	26
379	"	26-A
380	"	26-A
381	"	26-A

ENG.	CLASS	PAGE
<del>382</del>	G-44	26B
384	"	26B
385	"	26
389	"	26B
392	"	26
396	"	26
397	"	26
398	"	26-B
408	G-41	25
440	N-3	39
446	N-4	40
449	N-5	41
451	"	41
452	"	41
454	N-6	42
455	N-6	42

ENG.	CLASS	PAGE
456	N-6	42
457	"	"
458	"	"
475	G-6V	18
477	"	"
478	"	"
482	"	"
484	"	"
485	G-16V	23
486	"	"
488	"	"
490	"	"
491	"	"
492	"	"
493	"	"
497	G-16W	24
499	"	"

ENG.	CLASS	PAGE
500	H-5A	27
501	"	27-B
502	"	27
503	"	"
504	"	"
505	"	"
506	"	27-B
507	"	27-B
508	"	27
509	"	27-A
510	H-5-B	28-D
511	"	28-
512	"	28
513	"	28-
514	"	28
515	"	28
516	"	28
517	"	28
518	"	28
519	"	28-

ENG.	CLASS	PAGE
520	H-5B	28-C
521	"	28
522	"	28
523	"	28
524	"	28-C
525	"	28-
526	"	28
527	"	"
528	"	"
529	"	28-D
530	"	28
531	"	"
532	"	28-
533	"	28-C
534	"	28-D
586	H-6-0	35
587	"	"
588	"	"
589	"	"
<del>590</del>	"	"
591	"	"

N. K. P. — ENGINES BY NUMBERS

ENG.	CLASS	PAGE
592	H-6-O	35
593	"	"
594	"	"
595	"	"
596	"	"
597	"	"
598	"	"
599	"	35-A
600	"	35
601	H-6A	29A
602	"	29
603	"	29
604	"	29
605	"	29-A
606	"	29
607	"	29
<del>608</del>	"	29
609	"	29-A
610	"	"

ENG.	CLASS	PAGE
611	H-6B	30
612	"	30B
613	"	30-B
614	"	30-A
615	"	30
616	H-6C	31
617	H-6D	32
618	"	32
619	"	32
620	"	32A
621	"	32
622	"	32A
623	"	32
624	"	32
625	"	32
626	"	32-D
627	"	32-B
628	"	32
629	"	32-B

ENG.	CLASS	PAGE
630	H-6D	32-C
631	"	32-D
632	H-6E	33
633	"	33-A
634	"	33
635	"	33-C
636	"	33-C
637	"	33-C
638	"	33
639	"	33-C
640	"	"
641	"	"
642	"	"
643	"	33-A
644	"	33-C
645	"	"
646	"	"
647	"	33-C
648	"	"
649	"	33

ENG.	CLASS	PAGE
650	H-6E	33
651	"	33-C
652	"	"
653	"	"
654	"	"
655	"	33
656	"	33-C
657	"	"
658	"	"
659	"	33
660	"	33-C
661	"	33-D
662	H-6F	34-A
663	"	34
664	"	34-C
665	"	"
666	"	"
667	"	34-B
668	"	34-B
669	"	34-C

ENG.	CLASS	PAGE
670	H-6F	34-A
671	"	34-A
700	S	44
701	"	"
702	"	"
703	"	"
704	"	"
705	"	"
706	"	"
707	"	"
708	"	"
709	"	"
710	"	"
711	"	"
712	"	"
713	"	"
714	"	"

REVISED 12-30-1937, 2-1-'41, 6-'42.

N. K. P.

ENGINES BY NUMBERS

ENG.	CLASS	PAGE
715	S-1	44-1
716	"	"
717	"	"
718	"	"
719	"	"
720	"	"
721	"	"
722	"	"
723	"	"
724	"	"
725	"	"
726	"	"
727	"	"
728	"	"
729	"	"
730	"	"
731	"	"
732	"	"
733	"	"
734	"	"
735	"	"

ENG.	CLASS	PAGE
736	S-1	44-A
737	"	"
738	"	"
739	"	"
740	S-2	44-B
741	"	"
742	"	"
743	"	"
744	"	"
745	"	"
746	"	"
747	"	"
748	"	"
749	"	"
750	"	"
751	"	"
752	"	"
753	"	"
754	"	"
755	"	"
756	"	"

ENG.	CLASS	PAGE
757	S-2	44-B
758	"	"
759	"	"
760	"	"
761	"	"
762	"	"
763	"	"
764	"	"
765	"	"
766	"	"
767	"	"
768	"	"
769	"	"
860	G-10-A	22
861	"	"
863	"	"
867	"	"
871	"	"
890	G-7	19-A

ENG.	CLASS	PAGE
891	G-7	19A
892	"	"
893	"	19
894	"	19A
901	G-8	20
902	"	"
903	"	"
904	"	"
905	"	"
906	G-9	21
907	"	"
908	"	"
909	"	"
910	"	"
911	"	"
912	"	"
914	"	"
915	"	"
916	"	"

TOTAL ENGINES 327 -- JAN-1-1944
30 CLASS S-2 BEING BUILT
TOTAL DOES NOT INCLUDE 10 DIESELS <i>341 Enggs. Oct 24-44</i>

N. K. P. — RECAPITULATION OF LOCOMOTIVES BY CLASSES

5

CLASS	SERIES OR ENG. NUMBER	NO. IN SERVICE ON JAN. 1		
		1942	1943	1944
B-7	49 ▼	1	1	1
B-9A	103, 107	2	2	2
B-9B	114, 115, 121, 122	4	4	4
B-10	94 TO 99	6	6	6
B-11A	50 TO 59	10	10	10
B-11B	60 TO 69	10	10	10
B-11C	70 TO 79	10	10	10
B-11D	60, 81, 82	3	3	3
B-12	16, 17 <small>RENUMBERED FROM 215, 217</small>	2	2	2
C-17	300 TO 304	5	5	5
G-6V	475 TO 484	5	5	5
G-7	890 TO 894	5	5	5
G-8	901 TO 905	5	5	5
G-9	906 TO 916	10	10	10
G-10A	860 TO 871	5	5	5

CLASS	SERIES OR ENG. NUMBER	NO. IN SERVICE ON JAN. 1		
		1942	1943	1944
G-16V	485 TO 493	7	7	7
G-16W	497, 499	2	2	2
G-41	408	1	1	1
G-44	377 TO 398	12	12	11
H-5A	500 TO 509	10	10	10
H-5B	510 TO 534	25	25	25
H-6A	601 TO 610	10	10	10
H-6B	611 TO 615	5	5	5
H-6C	616	1	1	1
H-6D	617 TO 631	15	15	15
H-6E	632 TO 661	30	30	30
H-6F	662 TO 671	10	10	10
H-6G	586 TO 600	15	15	15
K-1A	160 TO 163	4	4	4
K-1B	164 TO 169	6	6	6

CLASS	SERIES OR ENG. NUMBER	NO. IN SERVICE ON JAN. 1		
		1942	1943	1944
L-1A	170 TO 173	4	4	4
L-1B	174 TO 177	4	4	4
N-3	440	1	1	1
N-4	445	1	1	1
N-5	449, 451, 452	3	3	3
N-6	454 TO 458	5	5	5
R	152, 154 TO 158	6	6	6
S	700 TO 714	15	15	15
S-1	715 TO 739	0	15	25
S-2	740 TO 769	0	0	BEING BUILT
U-2	200 TO 204	5	5	5
U-3A	205, 206, 207	3	3	3
U-3B	210 TO 219	10	10	10
U-3C	220 TO 229	10	10	10
		TOTAL ENGS. = 327		
		NOT INCLUDING 10 DIESEL ENGINES		JAN 1-1-1944
		♦ NO. CATES SERIES NOT COMPLETE		

NOTE - FOR LIST OF ENGINES RETIRED SINCE JAN. 1-1934 SEE PAGE 53.

▼ RENUMBERED FROM ENG. 9 - APR. 1942



## N.K.P. - LOCOMOTIVE INDEX BY CLASSES

CLASS	PAGE
DE-3	7
DE-2	7-A
B-7	8
B-9A	9
B-9B	10
B-10	11,11A
B-11A	12,12A
B-11B	13
B-11C	14
B-11D	15
B-12	16
C-17	17

CLASS	PAGE
G-6V	18
G-7	19,19A
G-8	20,
G-9	21,
G-10A	22
G-16V	23
G-16W	24
G-41	25
G-44	26,26A-B
H-5A	27,27A-B
H-5B	28,28C-D
H-6A	29,29A
H-6B	30,30A-B
H-6C	31
H-6D	32 TO 32D

CLASS	PAGE
H-6E	33,33A-C-D
H-6F	34 TO 34C
H-6G	35,35A
K-1A	36
K-1B	37
L-1A	38, <del>38A</del>
L-1B	38A, <del>38B</del> 38a
N-3	39
N-4	40
N-5	41
N-6	42

CLASS	PAGE
R	43,43A-B
S	44
S-1	44A
S-2	44-B
U-2	45
U-3A	46
U-3B	47
U-3C	48

N.K.P. — BUILDERS ORDER NUMBERS OF LOCOMOTIVES

6-A

CLASS	ORDER
DE-3	SPECIFICATION NO. E-154D
DE-2	SPECIFICATION NO. 595-F
B-7	1133
B-9A	834
B-9B	915
B-10	B-1341
B-11A	B-1413
B-11B	5564 TO 5573
B-11C	5676 TO 5685
B-11D	S-1011
B-12	6-380-116
C-17	CO-1129

CLASS	ORDER
G-6V	B-1270
G-7	10-36E-1261 to 1265
G-8	5221
G-9	1024
G-10A	1006, 1049
G-16V	B-1270
C-16W	S-880
G-41	B-683
G-44	B-975, B-976
H-5A	5428
H-5B	B-1448
H-6A	S-1259

CLASS	ORDER
H-6B	1022
H-6C	1022
H-6D	1033
H-6E	1048
H-6F	1066
H-6D	————
K-1A	1034
K-1B	B-1608
L-1A	B-1695
L-1B	1114
N-3	————
N-4	1164

CLASS	ORDER
N-5	B-1279
N-6	B-1343
R	B-1340
S	S-1736
S-1	1160 & 1166
S-2	1179 FOR ENGS. 740 TO 754
S-2	1184 FOR ENGS. 755 TO 769
U-2	123
U-3A	226
U-3B	1067
U-3C	1078

REVISED - JAN 1944

⊙ - 1160 FOR FIRST 15 ENGS., 1166 FOR LAST 10 OF S-1 ENGINES

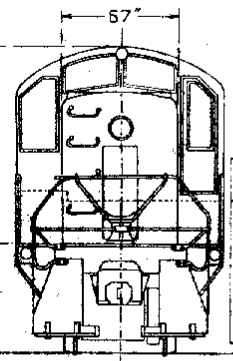
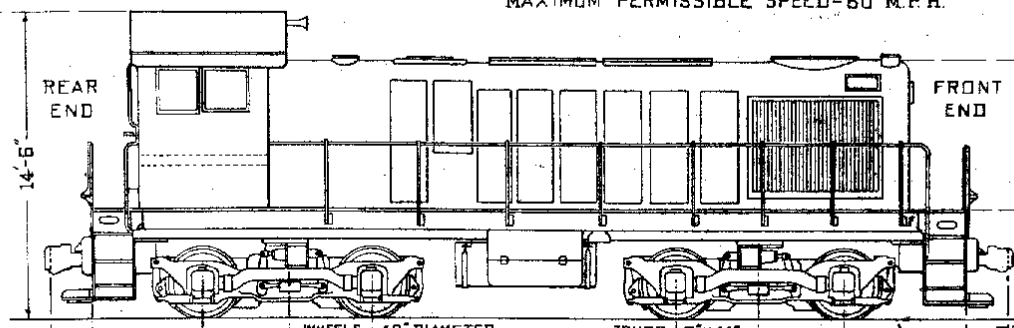
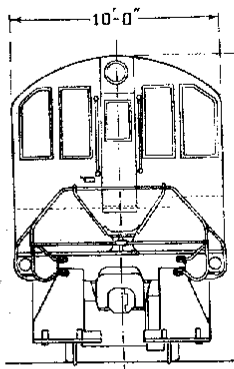
TRACTIVE POWER 69000 LBS. AT 30% ADHESION

NO. OF ENGINES - 6

**N.K.P. DIESEL-CLASS DE-3**

7  
ENGS.

MINIMUM CURVE RADIUS - 50 FT.  
MAXIMUM PERMISSIBLE SPEED - 60 M.P.H.



BLDRS. NO.	R.R. NO.
69924	1
69925	2
69926	3
69927	4
69928	5
69929	6

23 7/8" 9'-3" 96" WHEELS - 40" DIAMETER 22'-6" JOURS. 7" X 14" 9'-9" 23 7/8" 66 7/8" 63" 14'-6" 98" 68" 92 7/8" 45'-5 3/4" PULLING FACES OF COUPLERS

DRG. AND DATA FROM BLDRS. SPECIFICATION

7-1-1942  
APR-1942

**WEIGHTS**  
TOTAL LOADED WEIGHT - 230 000 LBS.

**TRACTIVE POWER**

AT STARTING	69000 LBS.
AT 3.6 M.P.H.	60000 LBS.
AT 25 M.P.H.	12200 LBS.
AT 35 M.P.H.	6000 LBS.

**ENGINE**  
A.L.CO. DIESEL, VERTICAL, FOUR CYCLE.  
CYLINDERS - 6 - 12 1/2" BORE X 13" STROKE.  
HORSEPOWER 1000 AT 740 R.P.M.

**GENERATOR**  
ONE MAIN, GENL. ELECTRIC - GT-553-C

**AUXILIARY GENERATOR**  
GENL. ELECTRIC BELT DRIVEN EXCITER-AUXILIARY  
GENERATOR SET - 75 VOLT.

**TRACTION MOTORS**  
GENL. ELECTRIC - FOUR-AXLE HUNG, GE-731

**STORAGE BATTERY**  
PHILCO TYPE 35-N.R.V.

**AIR BRAKE EQUIPMENT**  
SCHEDULE EL-14, AIR COMPRESSOR - 2 STAGE  
TYPE 3-CD, AIR COOLED WESTINGHOUSE, DRIVEN  
OFF MAIN ENGINE. CLASP BRAKE, 2 SHOES PER  
WHEEL, 4 BRAKE CYLINDERS - 10 X 10"

**SUPPLIES**

FUEL OIL	635 GALS.
COOLING WATER	240 GALS.
LUBRICATING OIL	60 GALS.
SAND	27 CU. FT.

BUILDER - A.L.CO. YEAR BUILT - 1942.  
BUILDER'S SPECIFICATION NUMBER E-1540  
BUILDER'S GENERAL DESIGN - DRG. NO. 961-N-93310

TRACTION POWER 62500 LBS. AT 25% ADHESION

NO. OF ENGINES - 4

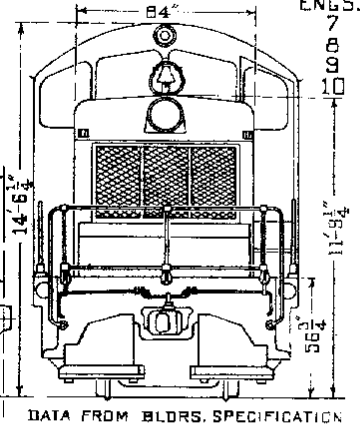
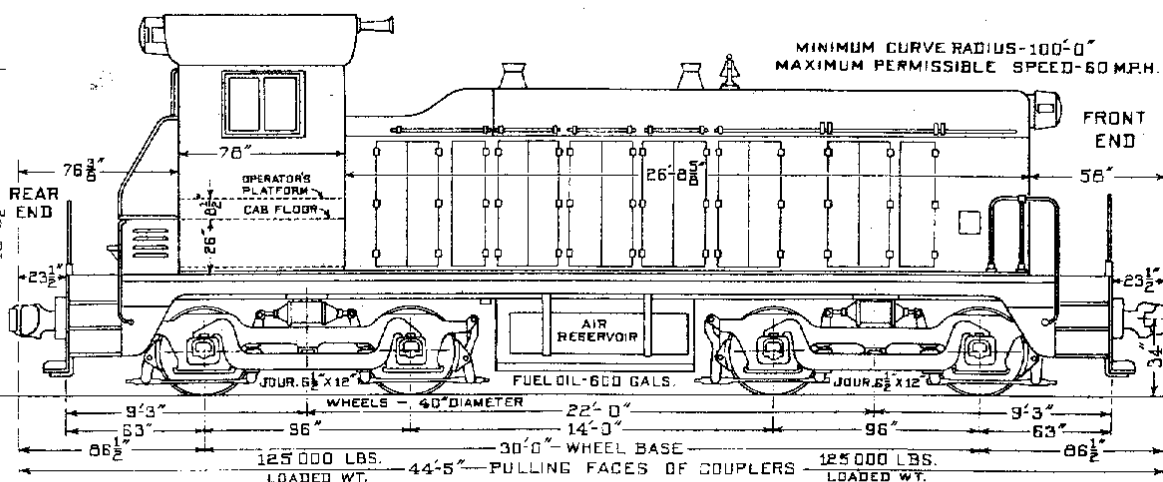
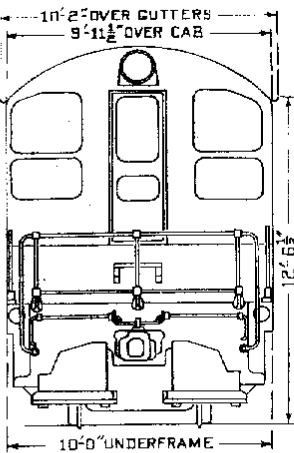
**N.K.P. DIESEL-CLASS DE-2**

7-A

ENGS.

7  
8  
9  
10

7  
8  
9  
10  
11  
12



DATA FROM BLDG. SPECIFICATION

E-1-1942  
APR-1942

**WEIGHTS**  
 TOTAL LOADED WEIGHT - 250 000 LBS.  
 TOTAL LIGHT WEIGHT - 243 000 LBS.  
 JOURNAL LOAD PER AXLE - 56 000 LBS.  
**TRACTION POWER**  
 AT 3.6 M.P.H. \_\_\_\_\_ 62 500 LBS.  
 AT 25 M.P.H. \_\_\_\_\_ 12 700 LBS.  
 AT 35 M.P.H. \_\_\_\_\_ 5 500 LBS.

**ENGINE**  
 G.M. DIESEL - MODEL 12-567 TWO CYCLE.  
 CYLINDERS - 12, 8 1/2 BORE X 10" STROKE.  
 HORSEPOWER - 1000 AT 800 R.P.M.  
**GENERATOR**  
 E.M.C. - TYPE D-4 - 500 VOLT, D.C.  
**AUXILIARY GENERATOR**  
 10 K.W. - 74 TO 78 VOLT, D.C.

**TRACTION MOTORS**  
 FOUR E.M.C. TYPE D-7C, D.C.  
**STORAGE BATTERY**  
 EXIDE IRON CLAD - 32 CELL - MVAH - 25 PLATE  
**AIR BRAKE EQUIPMENT**  
 SCHEDULE - 14 E L  
 AIR COMPRESSOR - 3 CYL. 2 STAGE, AIR COOLED  
 CLASP BRAKE, TWO SHOES PER WHEEL.  
 FOUR BRAKE CYLINDERS.

**SUPPLIES**  
 FUEL OIL - 600 GALS.  
 COOLING WATER - 195 GALS.  
 LUBRICATING OIL - 100 GALS.  
 SAND - 26 CU. FT.  
 BUILDER - ELECTRO-MOTIVE CORP., YEAR BUILT - 1942  
 BUILDER'S SPECIFICATION NO. S85-F  
 BUILDER'S MODEL - NW-2.

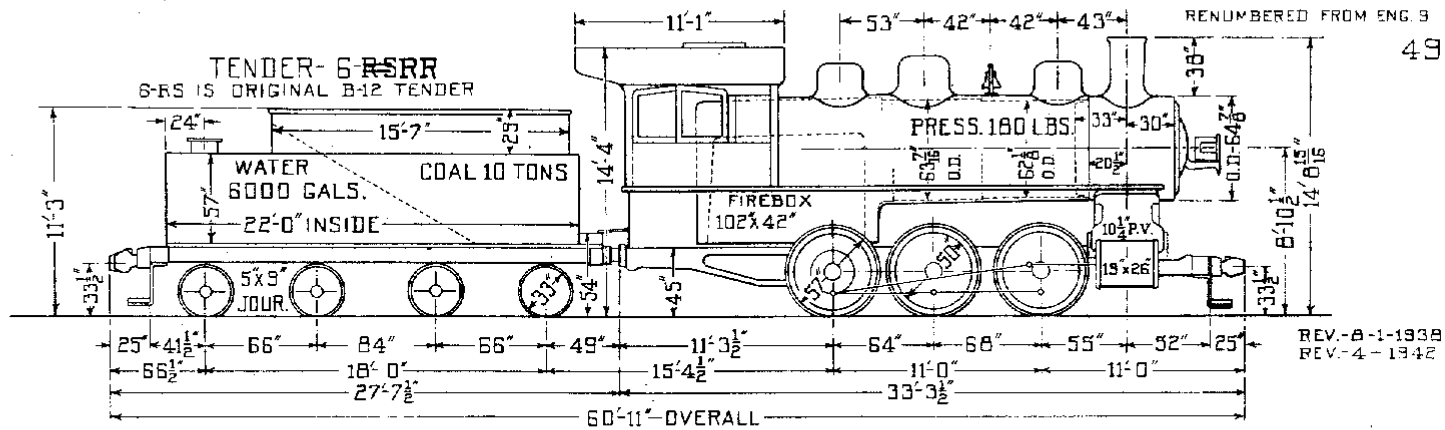
TRACTION POWER - 25 200 LBS.

NO. OF ENGINES - 1

N. K. P.

CLASS B-7

8  
ENGS.



REV-B-1-1938  
REV-4-1942

WEIGHTS

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 140 000 LBS.</p> <p>ON ENGINE TRUCK</p> <p>ON TRAILING TRUCK</p> <p>ENGINE TOTAL 140 000 LBS.</p> <p>TENDER 95 500 LBS.</p> <p>ENG. &amp; TENDER 235 500 LBS.</p> <p>TUBES, NO. 202 2" O.D.</p> <p>FLUES, NO.</p> <p>TUBES &amp; FLUES, LENGTH 11'-1 3/4"</p> <p>ARCH TUBES, NO. O.D. 16</p>	<p>FIREBOX LENGTH 102"</p> <p>" WIDTH 42"</p> <p>" HEATING SURFACE</p> <p>TUBES &amp; FLUES 1165 SQ. FT.</p> <p>FIREBOX 158 SQ. FT.</p> <p>ARCH TUBES SQ. FT.</p> <p>SYPHONS SQ. FT.</p> <p>TOTAL HEATING SURFACE-1323 SQ. FT.</p> <p>SUPERHEATER H.S. SQ. FT.</p> <p>GRATE AREA 29 SQ. FT.</p>	<p>JOURNALS-DRIVING MAIN 8 1/2" X 12"</p> <p>" OTHERS 9" X 12"</p> <p>VALVE DATA</p> <p>TRAVEL 5.19" LAP 7/8"</p> <p>L.L.D. 1/8" EXH. CL. L&amp;L.</p>	<p>SUPERHEATER-TYPE</p> <p>F.W. HEATER</p> <p>STOKER</p> <p>BOOSTER</p> <p>REVERSE GEAR FRANKLIN E</p> <p>BLDRS. ORDER 1138</p> <p>BUILDER ALCO. BROOKS</p> <p>YEAR BUILT 1902</p>
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TRACTIVE POWER ENG. 103=30150 LBS., ENG. 107=31700 LBS.

NO. OF ENGINES - 2

**N. K. P.**

CLASS B-9-A

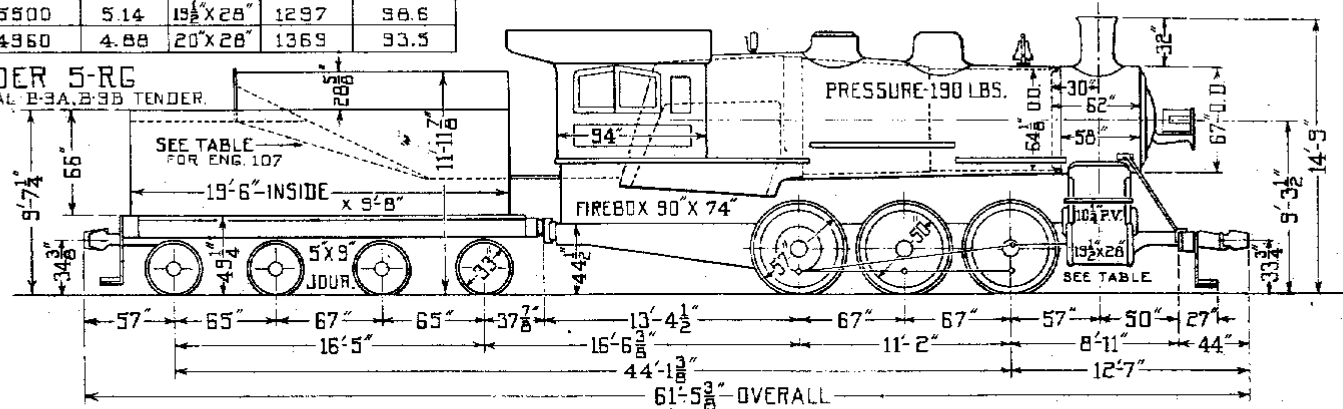
9

DESIGNED FOR 4° CURVE

ENGS. 103 107

ENGINE NO.	TENDER CAPACITY COAL-TONS	WATER-GALS	FACTOR OF ADHESION	SIZE OF CYLINDERS	CYL. H.P. POWER	PERCENT BOILER TO CYL. H.P.
103	10	5500	5.14	19½ X 28"	1297	96.6
107	12	4960	4.88	20 X 28"	1369	93.5

TENDER 5-RG  
ORIGINAL B-3A, B-3B TENDER.



**WEIGHTS-**

55 900 52 800 46 300

REV-5-1942

<p><b>WEIGHTS IN WORKING ORDER</b></p> <p>ON DRIVERS — 155 000 LBS.</p> <p>ON ENGINE TRUCK — —</p> <p>ON TRAILING TRUCK — —</p> <p>ENGINE TOTAL — 155 000 LBS.</p> <p>TENDER — 117 700 LBS.</p> <p>ENG. &amp; TENDER — 272 700 LBS.</p> <p>TUBES, NO. — 163 — 2" O.D.</p> <p>FLUES, NO. — 22 — 3" O.D.</p> <p>TUBES &amp; FLUES, LENGTH — 14'-9 3/4"</p> <p>ARCH TUBES, NO. 4 — O.D. 3"</p>	<p>FIREBOX LENGTH — 90"</p> <p>" WIDTH — 74"</p> <p>HEATING SURFACE — 1709 SQ. FT.</p> <p>TUBES &amp; FLUES — 1709 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES — 160 SQ. FT.</p> <p>SYPHONS — — SQ. FT.</p> <p>TOTAL HEATING SURFACE — 1869 SQ. FT.</p> <p>SUPERHEATER H.S. — 388 SQ. FT.</p> <p>GRATE AREA — 46.25 SQ. FT.</p>	<p>JOURNALS - DRIVING MAIN — 8" X 11"</p> <p>" " FRONT — 8" X 11"</p> <p>" " INT. — 8 1/2" X 11"</p> <p>REV. 11-1940</p> <p>VALVE DATA</p> <p>TRAVEL 5/8" - LAP 1"</p> <p>LEAD 0" - EXH. CL. L&amp;L</p>	<p>VALVE GEAR — STEPHENSON</p> <p>FACTOR OF ADHESION — SEE ABOVE</p> <p>CYLINDER HORSE POWER — SEE ABOVE</p> <p>PERCENT BOILER TO CYL. H.P. SEE ABOVE</p> <p>TENDER FRAME — —</p> <p>TENDER TRUCK FRAME — —</p> <p>" " BOLSTER — —</p>	<p>SUPERHEATER TYPE — A</p> <p>F.W. HEATER — —</p> <p>STOKER — —</p> <p>BOOSTER — —</p> <p>REVERSE GEAR — RACONNET</p> <p>BLDRS. ORDER — B34</p> <p>REBUILT FROM CLASS N, IN 1922</p> <p>BUILDER — A.L.CO — BROOKS</p> <p>YEAR BUILT — 1902</p>
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TRACTIVE POWER ENGS. 114, 115, 122 = 30150 LBS. - ENG. 121 = 31700 LBS.

NO. OF ENGINES - 4

**N. K. P.**

CLASS B-9-B

10

DESIGNED FOR 43° CURVE

ENGS.

ENGINE NUMBERS	SIZE OF CYLINDER	FAC. OF ADHESION	CYL. I. P.	PERCENT BOILER TO CYL. H.P. POWER
114 115 122	19½" X 28"	5.31	1297	101.0
121	20" X 28"	5.05	1369	95.7

TENDER - 5RC

COAL 10 TONS

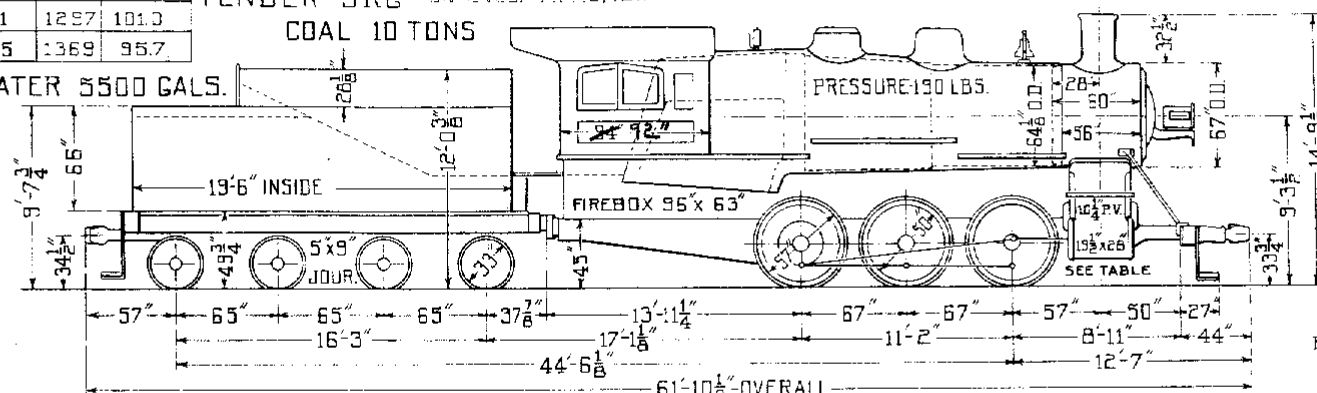
ORIGINAL N. K. P. 5-RA 5-RR ON ENGS. 114, 115, 121.

NEW BOILERS ON 114, 115, 122 - OCT. 1928

114  
115  
121  
122

TENDER 5-RH ON ENG. 122  
ORIGINAL N. K. P. 4-5-6 TENDER

WATER 5500 GALS.



REV. 11-1942

**WEIGHTS -**

WEIGHTS IN WORKING ORDER	
ON DRIVERS TRUCK	160 230 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	160 230 LBS.
TENDER	116 000 LBS.
ENG. & TENDER	276 230 LBS.
TUBES, NO. - 169 - 2" O. D.	
FLUES, NO. - 24 - 5½"	
TUBES & FLUES, LENGTH	14'-10½"
ARCH TUBES, NO. 4 - O. D. 3"	
SUPERHEATER TUBES, O. D.	

FIREBOX LENGTH	96"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1803 SQ. FT.
FIREBOX AND ARCH TUBES	171 SQ. FT.
" HEATING SURFACE	50. FT.
SYPHONS	50. FT.
TOTAL HEATING SURFACE	1974 SQ. FT.
SUPERHEATER H.S.	412 SQ. FT.
GRATE AREA	40.9 SQ. FT.
NEW BOILERS - ENG. 122 IN 1928 AND ON ENGS. 114, 115 IN 1927	

JOURNALS - DRIVING MAIN	9" X 11"
" " FRONT	8½" X 11"
" " INT.	8½" X 11"
VALVE DATA	REV. 11-1942
TRAVEL	5⅞" LAP 1"
LEAD	0" EXH. CL. L & L.

VALVE GEAR	STEPHENSON
FACTOR OF ADHESION	SEE TABLE
CYLINDER HORSE POWER	" "
PERCENT BOILER TO CYL. H.P.	" "

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR - ALCO.	ON ENG. 121
REVERSE GEAR - RAGONNET	ON 114, 115, 122.
REBUILT FROM CLASS N-1	N 1923
BLDRS. ORDER	915
BUILDER - A. C. C.	BROOKS
YEAR BUILT	1933

57300 54330 47500

10

TRACTIVE POWER- 27 200 LBS.

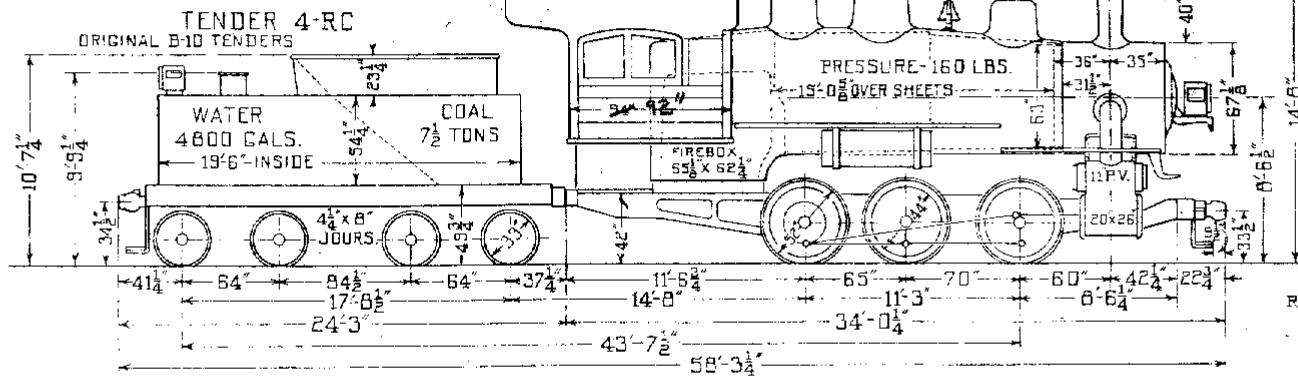
NO. OF ENGINES- 4  
SEE ALSO PAGE 11-A

N. K.P.

CLASS B-10

11

ENGINE DESIGNED FOR 15°55' CURVE



ENGS.  
94  
96  
98  
99

REV. AUG-1942

WEIGHTS-

53400 48600 54100

WEIGHTS IN WORKING ORDER	
ON DRIVERS	153100 LBS.
ON ENGINE TRUCK	
ON TRAILING TRUCK	
ENGINE TOTAL	153100 LBS.
TENDER	100200 LBS.
ENG. & TENDER	253300 LBS.
TUBES, NO. 158 - 2" O.D.	
FLUES, NO. 24 - 5 5/8" O.D.	
TUBES & FLUES, LENGTH	15'-0 5/8"
ARCH TUBES, NO. 3 - O.D. 3"	

FIREBOX LENGTH	55 5/8"
WIDTH	62 3/4"
HEATING SURFACE	
TUBES & FLUES	17413 SQ. FT.
FIREBOX AND ARCH TUBES	115 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	18563 SQ. FT.
SUPERHEATER H.S.	371 SQ. FT.
GRATE AREA	28.2 SQ. FT.

JOURNALS-DRIVING MAIN	3" X 11"
" FRONT	8 1/2" X 11"
" INT.	8 1/2" X 11"
REV-11-1940	
VALVE DATA	
TRAVEL	5 1/2" - LAP 7/8"
LEAD	3/32" - EXH. CL. L.&L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.62
CYLINDER HORSE POWER	1153
PERCENT BOILER TO CYL. H.P.	103.6

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	FRANKLIN-5 ON ENG. 99, RAGONNET-7" ON 94, 96, 98.
BLDRS. ORDER NO.	B-1341
CLASS CHANGED MAR. 1934 FROM S TO B-10	
BUILDER	A. L. CO. BROOKS
YEAR BUILT	1913

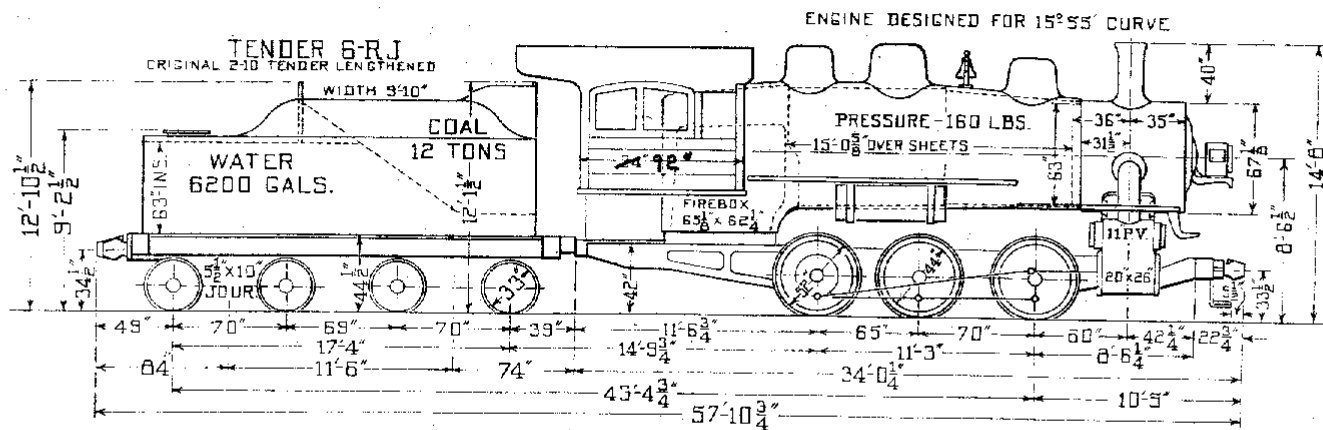


TRACTION POWER-27 200 LBS.

NO. OF ENGINES-2  
SEE ALSO PAGE-11

N. K. P. CLASS B-10

11-A



ENCS.  
95  
97

REV-51942

WEIGHTS-

62 920

66 000

50 400

48 600

54 100

WEIGHTS IN WORKING ORDER	
ON DRIVERS	153100 LBS.
ON ENGINE TRUCK	
ENGINE TOTAL	153100 LBS.
TENDER	128920 LBS.
ENG. & TENDER	282020 LBS.
TUBES, NO.	152-2" O.D.
FLUES, NO.	24-5 1/8 O.D.
TUBES & FLUES, LENGTH	15'-0 5/8"
ARCH TUBES, NO	3 - O.D. 3"

FIREBOX LENGTH	55 7/8"
" WIDTH	82 1/4"
" HEATING SURFACE	
TUBES & FLUES	17413 SQ. FT.
FIREBOX AND ARCH TUBES	115 SQ. FT.
SYPHONS	50 FT.
TOTAL HEATING SURFACE	18563 SQ. FT.
SUPERHEATER H.S.	371 SQ. FT.
GRATE AREA	28.2 SQ. FT.

JOURNALS-DRIVING MAIN	9" X 11"
" FRONT	8 1/2" X 11"
" INT.	8 1/2" X 11"
REV-121540	
VALVE DATA	
TRAVEL	5 1/2"
LEAD	3/32"
LAP	7/8"
EXH. CL. L.&L.	

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.62
CYLINDER HORSE POWER	1153
PERCENT BOILER TO CYL. H.P.	103.6

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	FRANKLIN-E ON 95, RAGGNET-2 ON ENG. 97.
CLASS CHGD.	MAR. 1934, FROM STC 510
BLDRS. ORDER NO.	B-1341
BUILDER	A. L. C. C. BROOKS
YEAR BUILT	1913

TRACTIVE POWER - 33150 LBS.

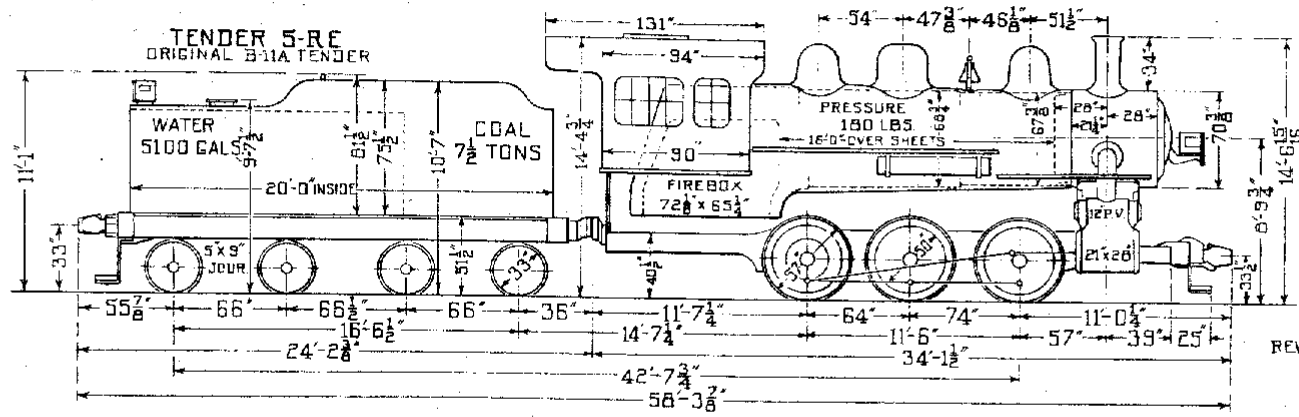
NO. OF ENGINES - 9  
SEE ALSO OTHER PAGES OF 12

N. K.P. CLASS B-11A

12

ENGS. DESIGNED FOR 18°-30' CURVE

ENGS.



- 50
- 51
- 52
- 53
- 54
- 55
- 56
- 57
- 58

REV-5-1942

WEIGHTS

58 500 57 000 57 500

WEIGHTS IN WORKING ORDER	
ON DRIVERS	173 000 LBS.
ON ENGINE TRUCK	
ON TRAILING TRUCK	
ENGINE TOTAL	173 000 LBS.
TENDER	101 000 LBS.
ENG. & TENDER	274 000 LBS.
TUBES, NO. 195	2" D.D.
FLUES, NO. 24	3 9/8" O.D.
TUBES & FLUES, LENGTH	16' 0"
ARCH TUBES, NO. 3	O.D. 3"

FIREBOX LENGTH	72 1/8"
" WIDTH	65 1/4"
" HEATING SURFACE	
TUBES & FLUES	1928 SQ. FT.
FIREBOX AND ARCH TUBES	142.3 SQ. FT.
SYPHONS	50. FT.
TOTAL HEATING SURFACE	1970.3 SQ. FT.
SUPERHEATER H.S.	441 SQ. FT.
GRATE AREA	32.7 SQ. FT.

JOURNALS - DRIVING MAIN	9" x 12"
" " OTHERS	9" x 12"
" " ENG. TRUCK	
VALVE DATA	
TRAVEL	5 3/4" - LAP 7/8"
LEAD	3/16" - EXH. CL. L & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.21
CYLINDER HORSE POWER	1429
PERCENT BOILER TO CYL. H.P.	88.3

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
REVERSE GEAR - RAGONNET ON ENG. 59,	
MELLIN ON ENGS. 50 TO 57	
BLDRS. ORDER NO.	B-1413
BUILDER	A. L. CO. - BROOKS
YEAR BUILT	OCT-1916

TRACTIVE POWER 33150 LBS.

NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 12

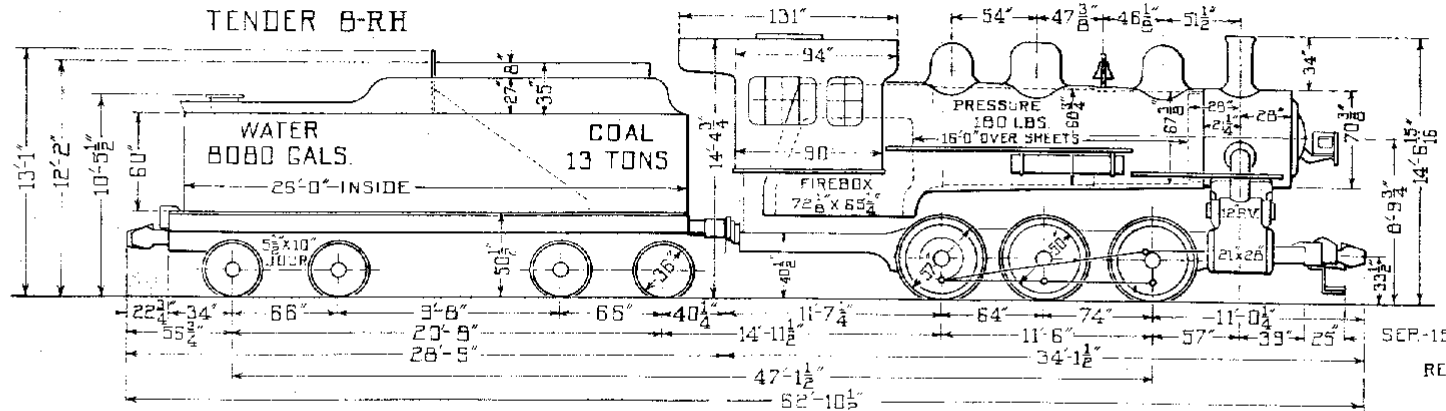
N. K. P. CLASS B-11A

12-A

ENG.  
58

TENDER 6-RH IS FROM DISMANTLED CLASS T-LENGTHENED

ENGS. DESIGNED FOR 18°30' CURVE



SEP-15-1937

REV-5-1942

WEIGHTS -

56 500 57 000 57 500

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 173 000 LBS.</p> <p>ON ENGINE TRUCK</p> <p>ON TRAILING TRUCK</p> <p>ENGINE TOTAL 173 000 LBS.</p> <p>TENDER 150 233 LBS.</p> <p>ENG. &amp; TENDER 323 233 LBS.</p> <p>TUBES, NO. 158 - 2" O. D.</p> <p>FLUES, NO. 24 - 5 3/8" O. D.</p> <p>TUBES &amp; FLUES, LENGTH 16'-0"</p> <p>ARCH TUBES, NO. 3 - O. D. 3"</p>	<p>FIREBOX LENGTH 72 1/8"</p> <p>WIDTH 55 1/4"</p> <p>HEATING SURFACE</p> <p>TUBES &amp; FLUES 1828 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES 142.3 SQ. FT.</p> <p>SYPHONS 50 FT.</p> <p>TOTAL HEATING SURFACE 1970.3 SQ. FT.</p> <p>SUPERHEATER SURF. 441 SQ. FT.</p> <p>GRATE AREA 32.7 SQ. FT.</p>	<p>JOURNALS - DRIVING MAIN 5" X 12"</p> <p>" " OTHERS 5" X 12"</p> <p>ENG. TRUCK</p> <p>VALVE DATA</p> <p>TRAVEL 5 3/4" LAP 7/8"</p> <p>LEAD 3/16" EXH. CL. 1/8" L.</p>	<p>VALVE GEAR WALSCHAERT</p> <p>FACTOR OF ADHESION 5.21</p> <p>CYLINDER HORSE POWER 1429</p> <p>PERCENT BOILER TO CYL. H.P. 88.3</p>	<p>SUPERHEATER - TYPE A</p> <p>F.W. HEATER</p> <p>STOKER</p> <p>BOOSTER</p> <p>REVERSE GEAR - RAYONNET</p> <p>B.L.O.B.S. ORDER NO. B-1113</p> <p>BUILDER A.L.S. CO. BROOKS</p> <p>YEAR BUILT OCT-1916</p>
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TRACTIVE POWER - 33150 LBS.

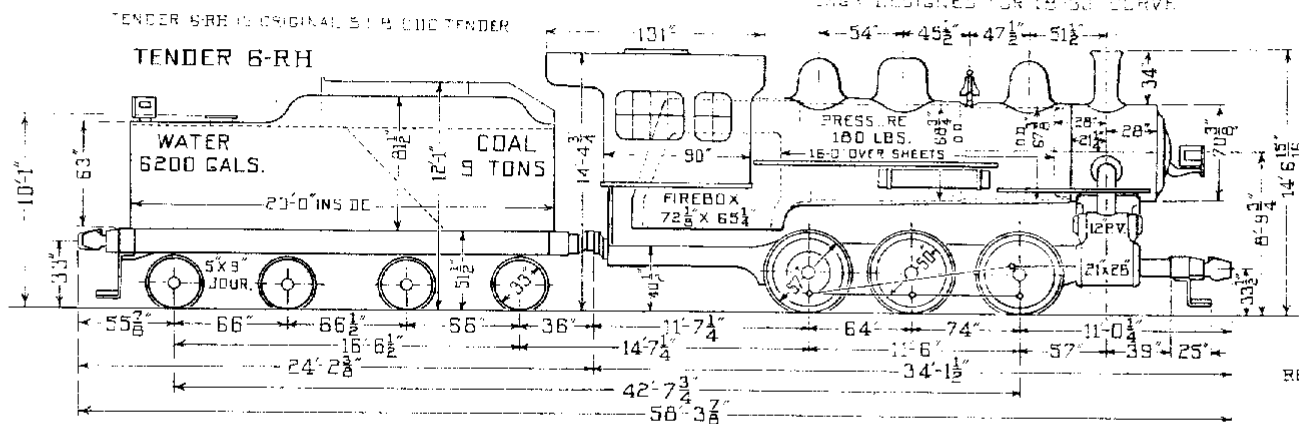
NO. OF ENGINES - 10

N. K.P. CLASS B-11B

13

ENGR. DESIGNED FOR 1916.5 CURVE

ENGS.



- 60
- 61
- 62
- 63
- 64
- 65
- 66
- 67
- 68
- 69

REV-5-1942

WEIGHTS-

58 500 57 000 57 500

WEIGHTS IN WORKING ORDER	
ON DRIVERS	173 000 LBS.
ON ENGINE TRUCK	
ENGINE TOTAL	173 000 LBS.
TENDER	115 800 LBS.
ENG. & TENDER	288 800 LBS.
TUBES, NO. 155 - 2" O.D.	
FLUES, NO. 24 - 5 3/8" O.D.	
TUBES & FLUES, LENGTH	15' 0"
ARCH TUBES, NO. 3	O.C. 3"

FIREBOX LENGTH	72 1/8"
" WIDTH	65 3/4"
" HEATING SURFACE	
TUBES & FLUES	1828 SQ. FT.
FIREBOX AND ARCH TUBES	142.3 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	1970.3 SQ. FT.
SUPERHEATER H.S.	441 SQ. FT.
GRATE AREA	32.7 SQ. FT.

JOURNALS - DRIVING MAIN	3" x 12"
" OTHERS	3" x 12"
" ENG. TRUCK	
VALVE DATA	
TRAVEL	5 3/4"
LEAD	3/16"
LAP	7/8"
EXH. CL. L & L.	

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.21
CYLINDER HORSE POWER	1425
PERCENT BOILER TO CYL. H.P.	58.3

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RACONNET
BLDRS. ORDER NO. - 5554-5573	
BUILDER - LIMA LOCO. WKS.	
YEAR BUILT - MAY - 1917	

TRACTIVE POWER- 33150 LBS.

NO. OF ENGINES - 10

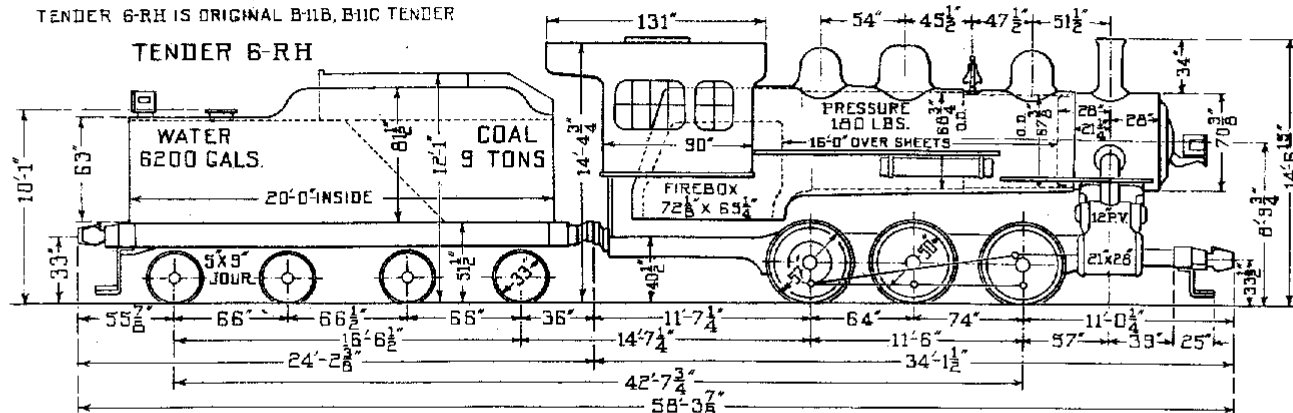
N. K.P. CLASS B-11C

14

ENGS. DESIGNED FOR 18° 30' CURVE

ENGS.

TENDER 6-RH IS ORIGINAL B-11B, B-11C TENDER



70  
71  
72  
73  
74  
75  
76  
77  
78  
79

REV-5-1942

58 500 57 000 57 500

WEIGHTS-

WEIGHTS IN WORKING ORDER	
ON DRIVERS	173 000 LBS.
ON ENGINE TRUCK	
ON TRAILING TRUCK	
ENGINE TOTAL	173 000 LBS.
TENDER	115 800 LBS.
ENO. & TENDER	288 800 LBS.
TUBES, NO. 155	2" O.D.
FLUES, NO. 24	5 3/8" O.D.
TUBES & FLUES, LENGTH	16'-0"
ARCH TUBES, NO. 3	O.D. 3'

FIREBOX LENGTH	72 3/8"
" WIDTH	63 1/4"
" HEATING SURFACE	
TUBES & FLUES	1028 SQ. FT.
FIREBOX AND ARCH TUBES	142.3 SQ. FT.
SYPHONS	50. FT.
TOTAL HEATING SURFACE	1970.3 SQ. FT.
SUPERHEATER H.S.	441 SQ. FT.
GRATE AREA	32.7 SQ. FT.

JOURNALS-DRIVING MAIN	8" x 12"
" " OTHERS	8" x 12"
ENG. TRUCK	
VALVE DATA	
TRAVEL	5 3/4"
LEAD	3/16"
LAP	7/8"
EXH. CL.	L & L

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.21
CYLINDER HORSE POWER	1429
PERCENT BOILER TO CYL. H.P.	88.3

SUPERHEATER TYPE	A
F.W. HEATER	
BOOSTER	
BOOSTER	
REVERSE GEAR	RAGONNET
BLDRS. ORDER NO.	5676-5685
BUILDER	LIMA LOCO. WORKS
YEAR BUILT	APR-1918

TRACTIVE POWER- 33130 LBS.

NO. OF ENGINES - 3

N. K. P. CLASS B-11D

15

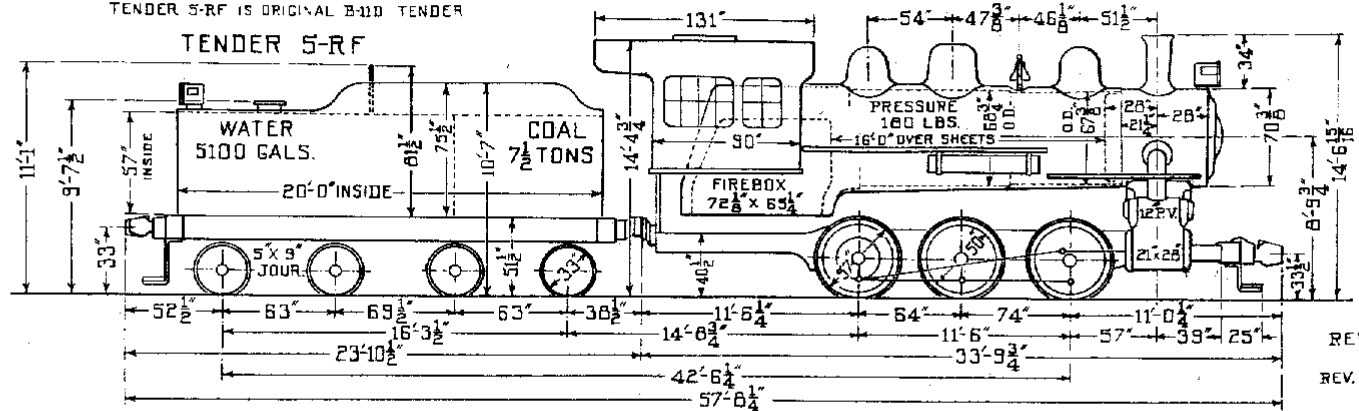
ENGS. DESIGNED FOR 18°30' CURVE

ENGS.

00  
01  
02

TENDER S-R-F IS ORIGINAL B-11D TENDER

TENDER S-R-F



REV-5-1942

REV. AUG-1942

WEIGHTS -

62620 60760 48980

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 172360 LBS.</p> <p>ON ENGINE TRUCK</p> <p>ON TRAILING TRUCK</p> <p>ENGINE TOTAL 172360 LBS.</p> <p>TENDER 102840 LBS.</p> <p>ENG. &amp; TENDER 275200 LBS.</p> <p>TUBES, NO. 153 - 2" O.D.</p> <p>FLUES, NO. 22 - 3 1/2" O.D.</p> <p>TUBES &amp; FLUES, LENGTH 16'-0"</p> <p>ARCH TUBES, NO. 3 - O.D. 3"</p>	<p>FIREBOX LENGTH 72 1/8"</p> <p>" WIDTH 65 1/4"</p> <p>" HEATING SURFACE</p> <p>TUBES &amp; FLUES 15614 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES 142.3 SQ. FT.</p> <p>SYPHONS</p> <p>TOTAL HEATING SURFACE 20037 SQ. FT.</p> <p>SUPERHEATER H.S. 382 SQ. FT.</p> <p>GRATE AREA 32.7 SQ. FT.</p>	<p>JOURNALS - DRIVING MAIN 9" x 12"</p> <p>" " OTHERS 9" x 12"</p> <p>ENG. TRUCK</p> <p>VALVE DATA</p> <p>H.P. TRAVEL 5 3/4" - LAP 7/8"</p> <p>H.P. LEAD 3/16" - EXH. CL. L. &amp; L.</p> <p>H.P. STEAM PORTS</p> <p>H.P. EXH. PORTS</p> <p>L.P. TRAVEL</p> <p>L.P. LEAD</p>	<p>VALVE GEAR WALSCHAERT</p> <p>FACTOR OF ADMISION 5.20</p> <p>CYLINDER HORSE POWER 1429</p> <p>PERCENT BOILER TO CYL. H.P. 89.2</p>	<p>SUPERHEATER - TYPE A</p> <p>F.W. HEATER</p> <p>STOKER</p> <p>BOOSTER</p> <p>REVERSE GEAR RAGONNET</p> <p>BLDRS. ORDER S-1011</p> <p>BUILDER A.L.CO. - AT SCHENECTADY</p> <p>YEAR BUILT 1913</p>
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TRACTIVE POWER - 37 800 LBS.

NO. OF ENGINES - 2

N. K.P.

CLASS B-12

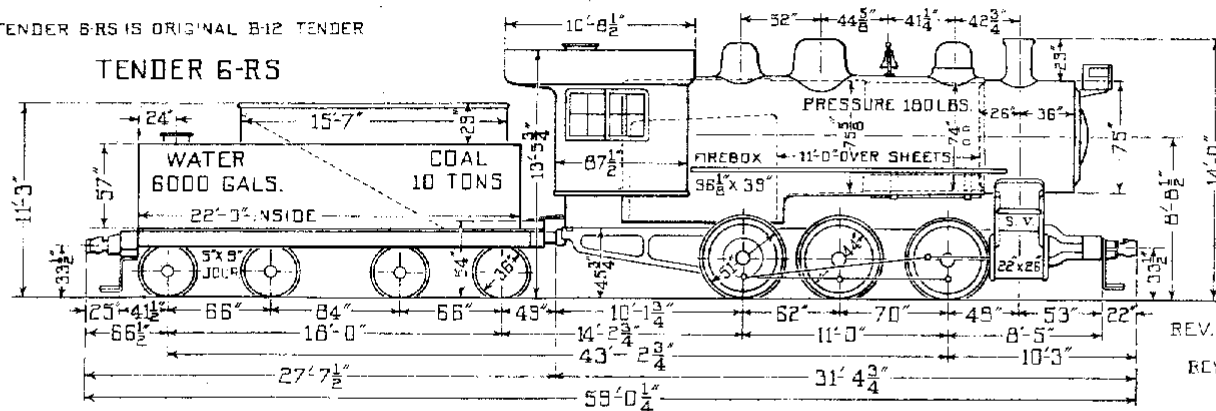
16

RENUMBERED FROM 716 & 717

ENGS.  
16  
17

TENDER 6-RS IS ORIGINAL B-12 TENDER

TENDER 6-RS



REV. 2-18-1941

REV-5-1942

WEIGHTS-

WEIGHTS IN WORKING ORDER	FIREBOX LENGTH	JOURNALS DRIVING MAIN	SUPERHEATER TYPE
ON DRIVERS	WIDTH	" OTHERS	F.W. HEATER
ON ENGINE TRUCK	HEATING SURFACE	ENG. TRUCK	STOKER
ON TRAILING TRUCK	TUBES & FLUES	VALVE DATA	BOOSTER
ENGINE TOTAL	FIREBOX	TRAVEL - $5\frac{3}{4}$ "	REVERSE GEAR
TENDER	GYPHONS	LAP $3\frac{1}{4}$ "	FRANKLIN-E
ENG. & TENDER	TOTAL HEATING SURFACE	LEAD	
TUBES, NO.	SUPERHEATER M.S.	EXH. CL. L.B.L.	
FLUES, NO.	GRATE AREA		
TUBES LENGTH			BALDRS. ORDER
ARCH TUBES, NO.			BUILDER
			YEAR BUILT

VALVE GEAR - WALSCHAERT  
FACTOR OF ADHESION - 4.23  
CYLINDER HORSE POWER - 1452  
PERCENT BOILER TO CYL. H.P. - 78.3

6-380-116  
BALDWIN LOCO. WKS.  
1892

TRACTION POWER 58 350 LBS.

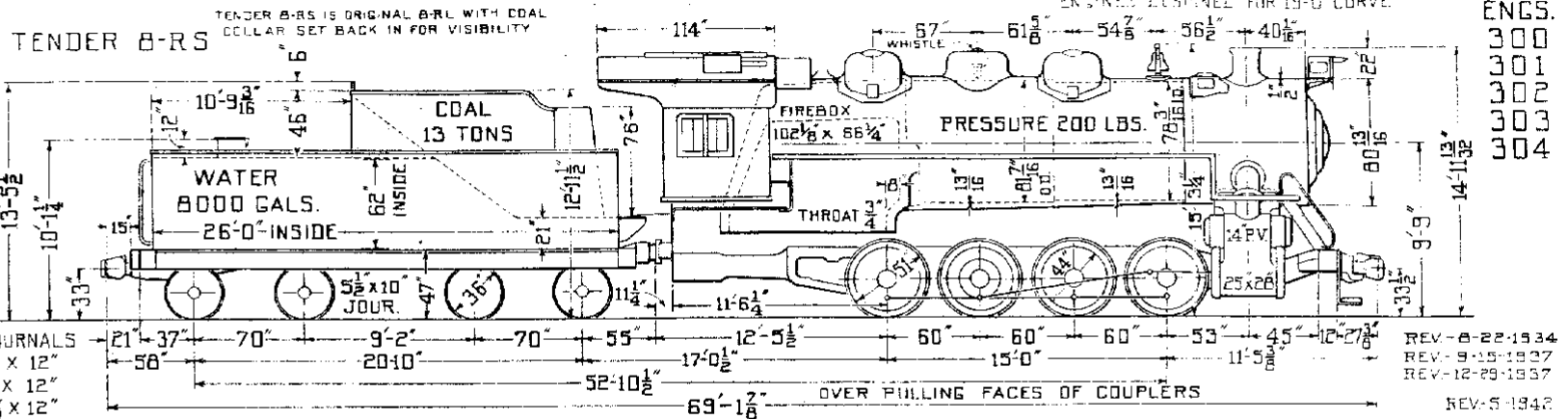
NO. OF ENGS.-5

N. K. P.

CLASS C-17

17

ENGINE'S ECHENEL FOR 15° CURVE.



ENGS.	300
	301
	302
	303
	304

NOTE 1-DRIVING JOURNALS  
 RIGHT MAIN - 11" X 12"  
 LEFT MAIN - 11" X 12"  
 R. OTHERS - 10 1/2" X 12"  
 L. OTHERS - 10" X 12"

REV-8-22-1934  
 REV-9-15-1937  
 REV-12-29-1937  
 REV-5-1942

WEIGHTS-

149 600 59000 59400 60800 59800

WEIGHTS IN WORKING ORDER	
ON DRIVERS	239 000 LBS.
ON ENGINE TRUCK	
ENGINE TOTAL	239 000 LBS.
TENDER	149 500 LBS.
ENG. & TENDER	388 500 LBS.
TUBES, NO. 161	2 1/2" O.D.
FLUES, NO. 35	5 1/2" O.D.
TUBES & FLUES, LENGTH	15'-0"
ARCH TUBES, NO.	O.D.
SUPERHEATER TUBES, O.D.	1 1/2"

FIREBOX LENGTH	102 1/8"
" WIDTH	66 3/4"
HEATING SURFACES	
TUBES & FLUES	2360 SQ. FT.
FIREBOX	186 SQ. FT.
ARCH TUBES	54 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	2600 SQ. FT.
SUPERHEATER H.S.	637 SQ. FT.
GRATE AREA	46.9 SQ. FT.

JOURNALS-DRIVING MAIN	11" X 12"
" OTHERS	10" X 12"
ENG. TRUCK	
VALVE DATA	
TRAVEL	6 3/4"
LEAD	1/8"
LAP	1"
EXN. CL. L. & L.	

CRANK PINS-MAIN	7 1/2" X 8" & 8 1/2" X 6"
VALVE GEAR	BAKER
FACTOR OF ADHESION	4.03
CYL. HORSE POWER	2252
PERCENT BOILER TO CYL. H.P.	82.9
TENDER FRAME	CAST STEEL
TENDER TRUCK FRAME	CAST STEEL
" " BOILER	CAST STEEL

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	ALCO. TYPE-E
SAFETY VALVES	3 OF 3" COALE
BUILDERS ORDER	CC-1128
BUILDER	L. MA LOCC WORKS
YEAR BUILT	1934



TRACTIVE POWER- 45 700

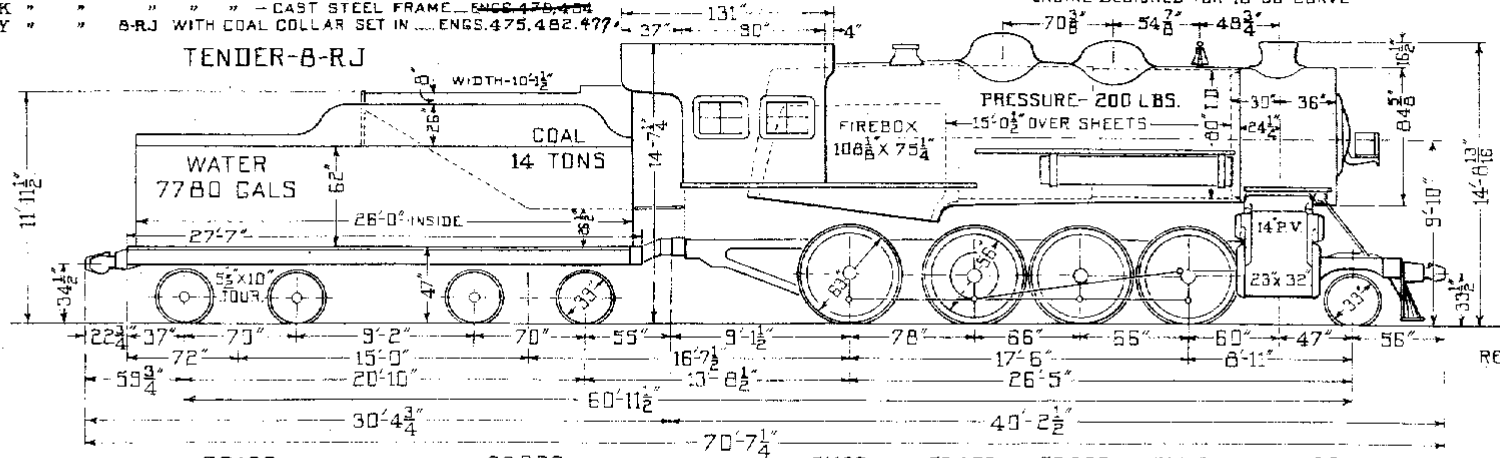
NO. OF ENGINES- 5

N. K.P. CLASS G-6V

18

TENDER B-RJ IS ORIGINAL G-EV-16V-16W - BUILT UP FRAME - ENG. 478 484  
 " B-RK " " " " - CAST STEEL FRAME - ENGS. 475, 482  
 " B-RY " " B-RJ WITH COAL COLLAR SET IN - ENGS. 475, 482, 477

ENGINE DESIGNED FOR 16° 30' CURVE



ENGS.  
475  
477  
478  
482  
484

REV-5-1942

WEIGHTS- 70166 82356 51100 52450 52890 54110 26180

WEIGHTS IN WORKING ORDER	
ON DRIVERS	210 550 LBS.
ON ENGINE TRUCK	28180 LBS.
ON TRAILING TRUCK	132 533 LBS.
ENGINE TOTAL	236 730 LBS.
TENDER	389 263 LBS.
ENG. & TENDER	625 993 LBS.
TUBES, NO. 24	5 3/8" O.D.
FLUES, NO. 24	5 3/8" O.D.
TUBES & FLUES, LENGTH	15' 0 1/2"
ARCH RAILS	4 - C.D. 3"

FIREBOX LENGTH	108 7/8"
" WIDTH	75 1/4"
" HEATING SURFACE	2765.5 SQ. FT.
TUBES & FLUES	212 SQ. FT.
FIREBOX	212 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	2977.5 SQ. FT.
SUPERHEATER H.S.	858 SQ. FT.
GRATE AREA	56.5 SQ. FT.

JOURNALS-DRIVING MAIN	10 1/2" X 14"
" " F&B	8 1/2" X 12" INT. 9 1/2" X 14"
" " ENG. TRUCK	6" X 12"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	3/16"
LAP	1"
EXH. CL. L. & L.	

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.60
CYLINDER HORSE POWER	1504
PERCENT BOILER TO CYL. H.P.	102.1

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET ON ENGS. 477, 475, 482; FRANK. N-F ON 478
ENG. 484 - USED IN STEAM HEAT SERVICE	
BLDGS. ORDER NO.	B-1270
BUILDER	A.L.CO. BROOKS
YEAR BUILT	1911

TRACTIVE POWER - 37 500 LBS

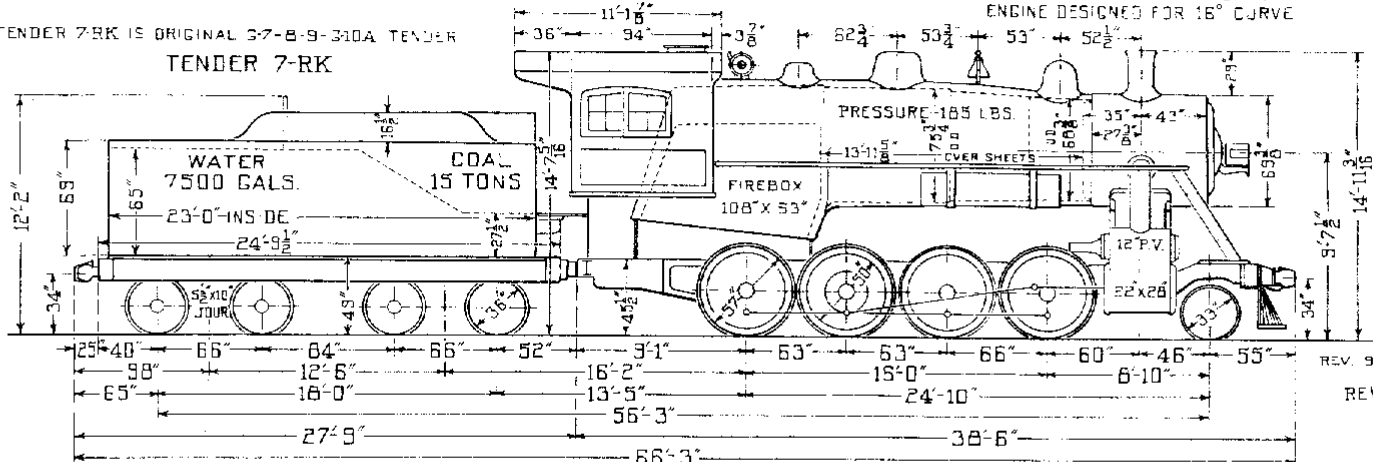
NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 19

N. K.P. CLASS G-7  
ENGINE DESIGNED FOR 16° CURVE

19

TENDER 7-RK IS ORIGINAL 3-7-B-9-310A TENDER  
TENDER 7-RK

ENGS.  
893



REV. 9-10-1937

REV-5-1942

WEIGHTS -

WEIGHTS IN WORKING ORDER	
ON DRIVERS	170 900 LBS.
ON ENGINE TRUCK	25 800 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	196 700 LBS.
TENDER	148 500 LBS.
ENG. & TENDER	345 200 LBS.
TUBES, NO. - 175 - 2" O.D.	
FLUES, NO. - 27 - 3 3/8" O.D.	
TUBES & FLUES, LENGTH	13'-11 5/8"
ARCH TUBES, NO. 2	O.D. 3"

FIREBOX LENGTH	105"
" WIDTH	53"
HEATING SURFACE	
TUBES & FLUES	1797.5 SQ. FT.
FIREBOX AND ARCH TUBES	17.6 SQ. FT.
SYPHONS - SEE NOTE-1	SQ. FT.
TOTAL HEATING SURFACE	1815.1 SQ. FT.
SUPERHEATER H.S.	47.0 SQ. FT.
GRATE AREA	47.25 SQ. FT.

JOURNALS - DRIVING MAIN	9 1/2" X 12"
" OTHERS	9" X 12"
ENG. TRUCK	5" X 12"

VALVE DATA  
TRAVEL 6 1/4" - LAP 7/8"  
LEAD 1/8" EXH. CL. L&L

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.55
CYLINDER HORSE POWER	1612
PERCENT BOILER TO CYL. H.P.	89.0

NOTE-1

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET

BLDRS. ORDER - GENL. NO. 10-36E-1261 TO 1265.  
BUILDER - BALDWIN LOCO. WKS.  
YEAR BUILT - 1913

TRACTIVE POWER-37 500

NO. OF ENGINES - 4  
SEE ALSO OTHER PAGES OF 19

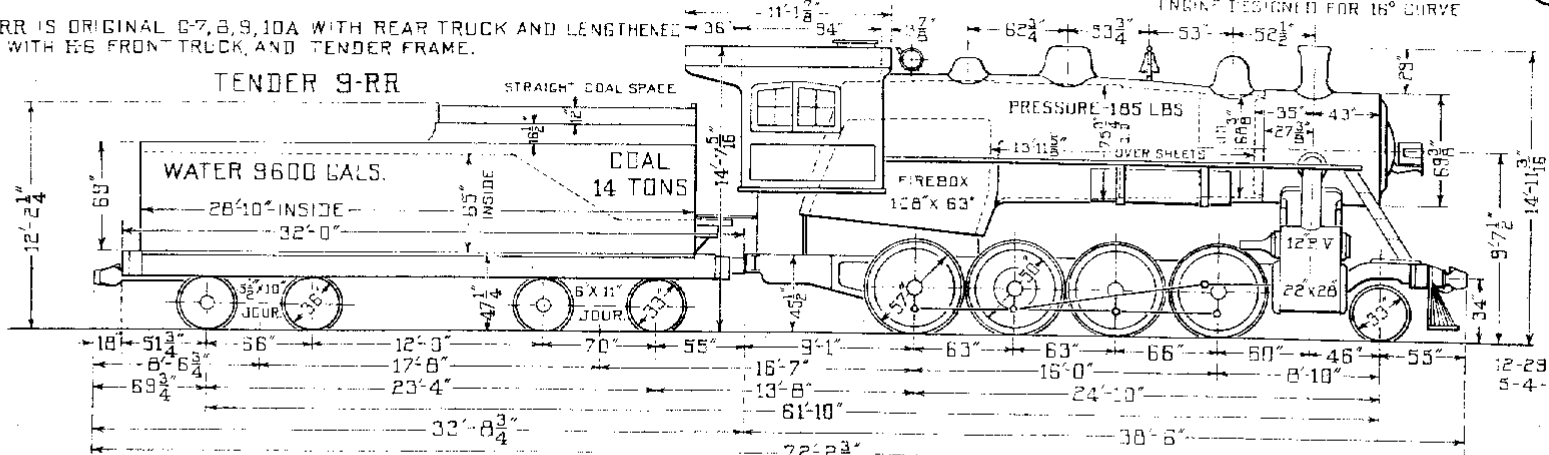
N. K.P. CLASS G-7

19-A

TENDER 9-RR IS ORIGINAL G-7, 8, 9, 10A WITH REAR TRUCK AND LENGTHENED TANK AND WITH 66 FRONT TRUCK AND TENDER FRAME.

ENGINE DESIGNED FOR 16° CURVE

ENG.  
890  
891  
892  
894



12-29-1937  
5-4-1942

WEIGHTS-

61100

96500

44500 45000 38400 43000

25800

WEIGHTS IN WORKING ORDER	
ON DRIVERS	170 900 LBS.
ON ENGINE TRUCK	23 900 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	196 700 LBS.
TENDER TOTAL	177 600 LBS.
TOTAL	374 300 LBS.
ENG. & TENDER	2100
TUBES, NO.	27
FLUES, NO.	54
TUBES & FLUES LENGTH	13'-11 5/8"
ASST. TRUCK	3" O.D.

FIREBOX LENGTH	108"
" WIDTH	63"
HEATING SURFACE	
TUBES & FLUES	17926 SQ. FT.
FIREBOX AND ARCH TUBES	176 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	19736 SQ. FT.
SUPERHEATER H.S.	470 SQ. FT.
GRATE AREA	47.25 SQ. FT.

JOURNALS-DRIVING MAIN	3 1/2" X 12"
" " OTHERS	3" X 12"
" " ENG. TRUCK	6" X 12"
VALVE DATA	
TRAVEL	6 1/4" LAP 7/8"
LEAD	1/8" EXH. CL. L & L

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.55
CYLINDER HORSE POWER	1612
PERCENT BOILER TO CYL. H.P.	89.0

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	RAG-B ON 890 ONLY.
BOOSTER	FRANKLIN E. CHAS.
REVERSE GEAR	
NOTE: ENGS 854 W/TH SYPHONS, HTG. SURF. OF 56 SQ. FT. TOTAL H. SURF. IS 19316 SQ. FT. PERCENT BOILER TO CYL. H.P. IS 98.5	
B: DRS. ORDER-GENL. NO. 10-36 E-1251 TO 1266.	
BUILDER	BALDWIN LOCOMOTIVE WORKS
YEAR BUILT	1913

A-11

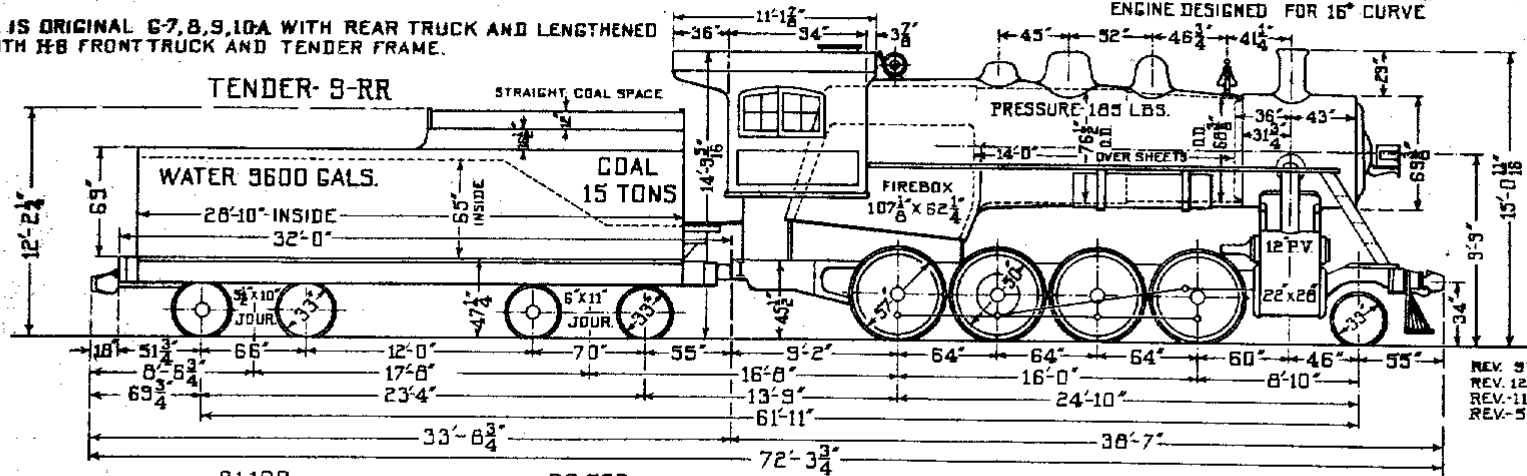
TRACTIVE POWER- 37 500 LBS.

NO. OF ENGINES- 5

N. K.P. CLASS G-8  
ENGINE DESIGNED FOR 16° CURVE

20

TENDER S-RR IS ORIGINAL G-7,8,9,10A WITH REAR TRUCK AND LENGTHENED TANK AND WITH H-B FRONT TRUCK AND TENDER FRAME.



ENGS.  
901  
902  
903  
904  
905

REV. 3-15-1937  
REV. 12-29-1937  
REV. 11-1940  
REV. 5-1942

WEIGHTS- 81100 96500 47170 51670 48060 38000 24250

WEIGHTS IN WORKING ORDER	FIREBOX LENGTH 107 7/8"	JOURNALS-DRIVING MAIN 10" X 12"	SUPERHEATER-TYPE A
ON DRIVERS 184 900 LBS.	" WIDTH 52 1/4"	" OTHERS 8" X 12"	F.W. HEATER B K
ON TRAILING TRUCK 24 250 LBS.	HEATING SURFACE 18955 SQ. FT.	ENG. TRUCK 8" X 12"	BOOSTER
ENGINE TOTAL 209 150 LBS.	TUBES & FLUES 178	VALVE DATA	REVERSE GEAR FRANKLIN-E
TENDER 177 800 LBS.	FIREBOX AND ARCH TUBES 178 SQ. FT.	TRAVEL 6 1/4"	
ENG. & TENDER 386 750 LBS.	SYPHONS SQ. FT.	LEAD 1/8"	
TUBES, NO. 156 - 2" O.D.	TOTAL HEATING SURFACE 20735 SQ. FT.	LAP 7/8"	
FLUES, NO. 27 - 5 3/8" O.D.	SUPERHEATER H.S. 470 SQ. FT.	EXH. OL. L. & L.	
TUBES & FLUES, LENGTH 14'-0"	GRATE AREA 46.2 SQ. FT.		
ARCH TUBES, NO. 3 - O.D. 3"			
			BLDRS. ORDER NO. 5221
			BUILDER LIMA LOCO. WORKS
			YEAR BUILT 1916

TRACTIVE POWER- 37 500 LBS.

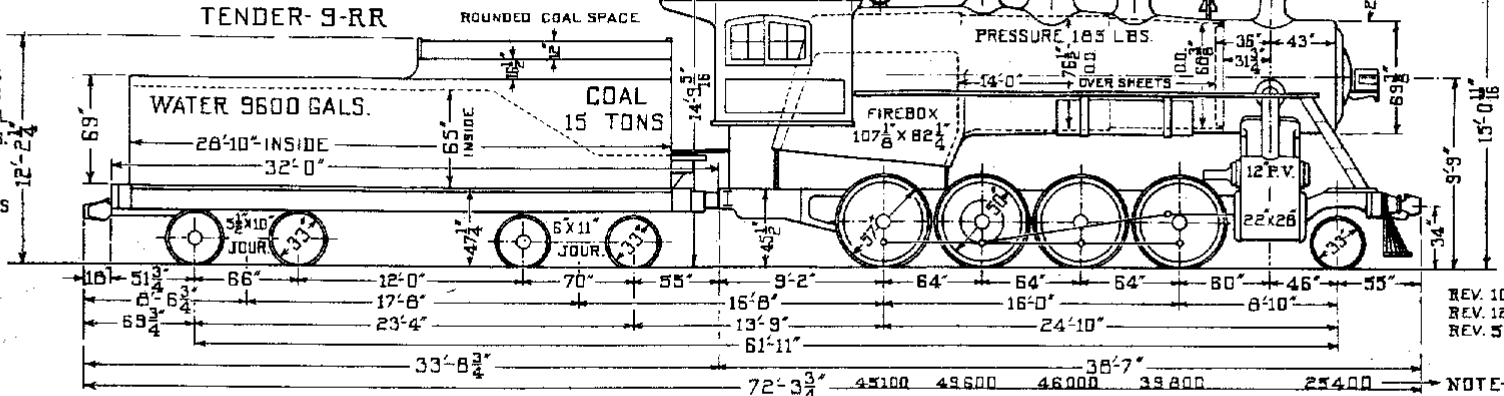
NO. OF ENGINES - 10

N. K.P. CLASS G-9

ENGINE DESIGNED FOR 16° CURVE

TENDER 9-RR IS ORIGINAL G-7, 8, 9, 10A WITH REAR TRUCK AND LENGTHENED TANK AND WITH H6 FRONT TRUCK AND TENDER FRAME.

NOTE-3:  
ENGS. 909 910 ARE WITHOUT STOKERS;  
WT. ON DRIVERS IS 180 500 LBS., TOTAL  
ENG. IS 205 900 LBS.  
ENG. AND TENDER IS 383 500 LBS.  
FAC. OF ADHESION IS 4.76



(21)  
ENGS.  
906  
907  
908  
909  
910  
911  
912  
914  
915  
916

REV. 10-27-1937  
REV. 12-29-1937  
REV. 5-6-1942

WEIGHTS-

81100 96 500 47170 51670 48060 38000 24250

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 184 900 LBS.</p> <p>ON ENGINE TRUCK 24 250 LBS.</p> <p>ON TRAILING TRUCK</p> <p>ENGINE TOTAL 209 150 LBS.</p> <p>TENDER 177 600 LBS.</p> <p>ENG. &amp; TENDER 386 750 LBS.</p> <p>TUBES, NO. 158 - 2" O.D. NOTE-3</p> <p>FLUES, NO. 27 - 3 3/8" O.D.</p> <p>TUBES &amp; FLUES, LENGTH 14'-0"</p> <p>ARCH TUBES, NO. 3 - O.D. 3"</p>	<p>FIREBOX LENGTH 107 1/8"</p> <p>" WIDTH 82 1/2"</p> <p>" HEATING SURFACE</p> <p>TUBES &amp; FLUES 18955 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES 178 SQ. FT.</p> <p>SYPHONS - SEE NOTE NO. 1 50 FT.</p> <p>TOTAL HEATING SURFACE 20735 SQ. FT.</p> <p>SUPERHEATER H.S. 470 SQ. FT.</p> <p>GRATE AREA 48.2 SQ. FT.</p>	<p>JOURNALS DRIVING MAIN 10" x 12"</p> <p>" OTHERS 9" x 12"</p> <p>ENG. TRUCK 6" x 12"</p> <p>VALVE DATA</p> <p>TRAVEL 6 3/4" - LAP 7/8"</p> <p>LEAD 1/8" - EXH. CL. L &amp; L.</p>	<p>VALVE GEAR BAKER</p> <p>FACTOR OF ADHESION NOTES- 4.93</p> <p>CYLINDER HORSE POWER 1512</p> <p>PERCENT BOILER TO CYL. H.P. 92.4</p> <p>NOTE-2-REV. GEARS. NOTE-1-</p> <p>RAGONNET ON 906, 909, 910, 915.</p> <p>FRANKLIN-E ON 907, 908, 911, 912, 914, 915.</p>	<p>SUPERHEATER TYPE A</p> <p>F.W. HEATER BK-DN 906, 907, 908, 911, 912,</p> <p>STOKER NONE 914, 915, 916.</p> <p>REVERSE GEAR - SEE NOTE-2</p> <p>NOTE-1: ENGS. 916 WITH SYPHONS-HEATG. SURF. OF 62 SQ. FT.-TOTAL H.S. = 2135.5 SQ. FT. PERCENT BOILER TO CYL. H.P. = 102.6</p> <p>BLDRS. ORDER NO. 1024</p> <p>BUILDER LIMA LOCO WORKS</p> <p>YEAR BUILT-906, 907, 908, 911, 912, 914, 915 - IN 1922</p>
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TRACTIVE POWER - 37 500 LBS.

NO. OF ENGINES - 5

N. K.P.

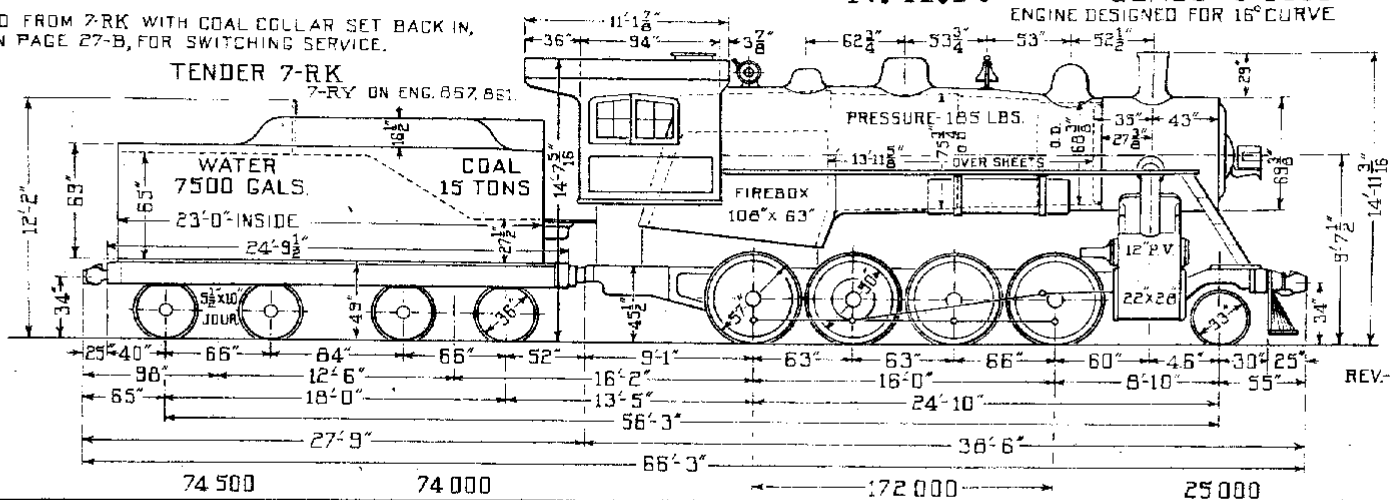
CLASS G-10A

22

NOTE 2:

TENDER 7-RY IS CONVERTED FROM 7-RK WITH COAL COLLAR SET BACK IN, IN MANNER AS SHOWN ON PAGE 27-B, FOR SWITCHING SERVICE.

ENGINE DESIGNED FOR 16° CURVE



ENGS.  
860  
861  
863  
867  
871

REV-5-1942

WEIGHTS-

WEIGHTS IN WORKING ORDER	
ON DRIVERS	172 000 LBS.
ON ENGINE TRUCK	25 000 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	197 000 LBS.
TENDER	148 500 LBS.
ENG. & TENDER	345 500 LBS.
TUBES, NO - 175 - 2" O.D.	
FLUES, NO - 27 - 5 3/8"	
TUBES & FLUES, LENGTH	13'-11 5/8"
ARCH TUBES, NO. 3	O.D. 3" ENG. 861

FIREBOX LENGTH	108"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1797.6 SQ. FT.
FIREBOX AND SYPHONS	17.6 SQ. FT.
SYPHONS - SEE NOTE 1	
TOTAL HEATING SURFACE	1973.6 SQ. FT.
SUPERHEATER H.S.	47.0 SQ. FT.
GRATE AREA	47.25 SQ. FT.

JOURNALS - DRIVING MAIN	9 1/2" x 12"
" " OTHERS	9" x 12"
" " ENG. TRUCK	8" x 12"
VALVE DATA	
TRAVEL	6 3/4"
LEAD	1/8"
LAP	7/8"
EXH. CL.	L & L.

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.58
CYLINDER HORSE POWER	1512
PERCENT BOILER TO CYL. H.P.	58.5

SUPERHEATER - TYPE		A
F.W. HEATER		
STOKER		
BOOSTER		
REVERSE GEAR - FRANKLIN-E ON 860, 863;		
RAGDNNET-ON 867, 861, 871.		
NOTE-1; ENG. 861-NO SYPHONS-TOTAL HTG.		
SURF. = 1915.6 SQ. FT. - PERCENT HTG.		
TO CYL. H.P. = 68.0		
BLDRS. ORDER NO.		1006
BUILDER		A. L. CO. BROOKS
YEAR BUILT		1908

74 500      74 000      172 000      25 000

TRACTIVE POWER - 48 600 LBS.

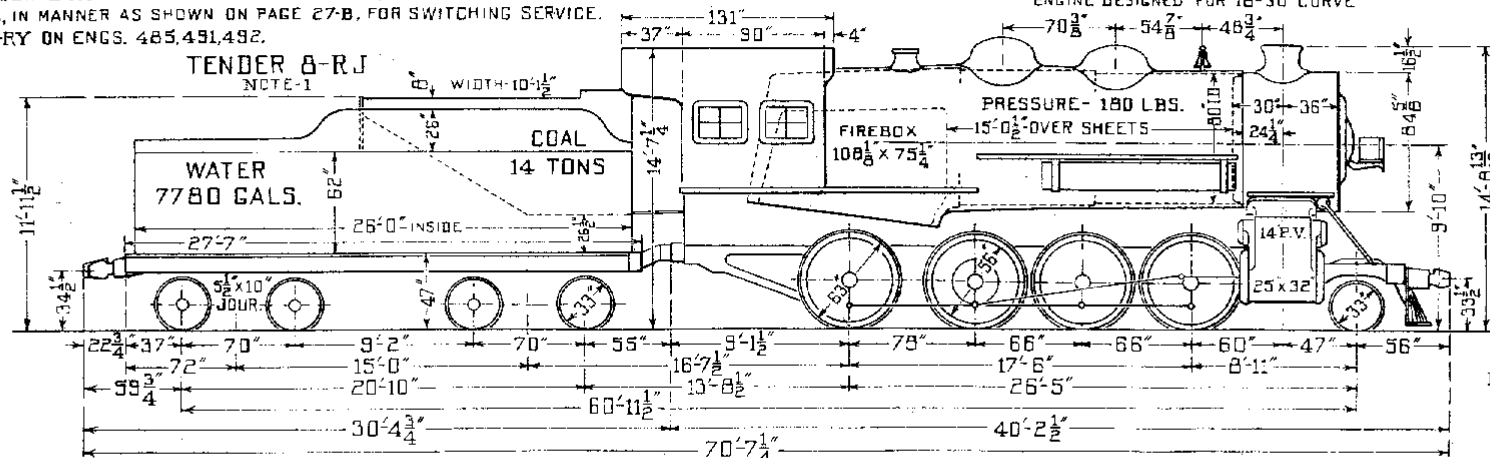
NO. OF ENGINES - 7

N. K.P. CLASS G-16V

23

NOTE-1: TENDER & RY IS CONVERTED FROM & R-J, WITH COAL COLLAR SET BACK IN, IN MANNER AS SHOWN ON PAGE 27-B, FOR SWITCHING SERVICE. TENDER & RY ON ENGS. 485,491,492.

ENGINE DESIGNED FOR 16°30' CURVE



- ENGS.
- 485
- 486
- 488
- 490
- 491
- 492
- 493

REV. 4-21-1938

REV. 5-1942

WEIGHTS - 70166 82366 51100 52450 52890 54110 26180

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 210 550 LBS.</p> <p>ON ENGINE TRUCK 26180 LBS.</p> <p>ENGINE TOTAL 236 730 LBS.</p> <p>TENDER 1920 533 LBS.</p> <p>ENG. &amp; TENDER 3889 263 LBS.</p> <p>TUBES, NO. 262 - 2" O.D.</p> <p>FLUES, NO. 34 - 5 3/8"</p> <p>TUBES &amp; FLUES, LENGTH - 15'-0 1/2"</p> <p>ARCH TUBES, NO. 4 - O.D. 3"</p>	<p>FIREBOX LENGTH 105 1/8"</p> <p>" WIDTH 75 3/4"</p> <p>HEATING SURFACE</p> <p>TUBES &amp; FLUES 2765.5 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES - 212 SQ. FT.</p> <p>SYPHONS</p> <p>TOTAL HEATING SURFACE - 2977.5 SQ. FT.</p> <p>SUPERHEATER H.S. 8.56 SQ. FT.</p> <p>GRATE AREA 56.5 SQ. FT.</p>	<p>JOURNALS - DRIVING MAIN 10 1/2 x 14"</p> <p>" " F.B.B. 9 1/2 x 12", INT. 9 1/2 x 14"</p> <p>" " ENG. TRUCK 6" x 12"</p> <p>VALVE DATA</p> <p>TRAVEL 6 1/2" - LAP 1"</p> <p>LEAD 3/16" - EXH. CL. L. &amp; L.</p>	<p>VALVE GEAR WALSCHAERT</p> <p>FACTOR OF ADHESION 4.44</p> <p>CYLINDER HORSE POWER 220.27</p> <p>PERCENT BOILER TO CYL. H.P. 85.9</p>	<p>SUPERHEATER - TYPE A</p> <p>F.W. HEATER</p> <p>STOKER</p> <p>BOOSTER</p> <p>REVERSE GEAR RAGONNET</p> <p>BLDRS. ORDER B-1270</p> <p>BUILDER A.L.CO.</p> <p>YEAR BUILT 1911</p>
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TRACTION POWER - 48 600 LBS.

NO. OF ENGINES - 2

N. K.P.

CLASS G-16W

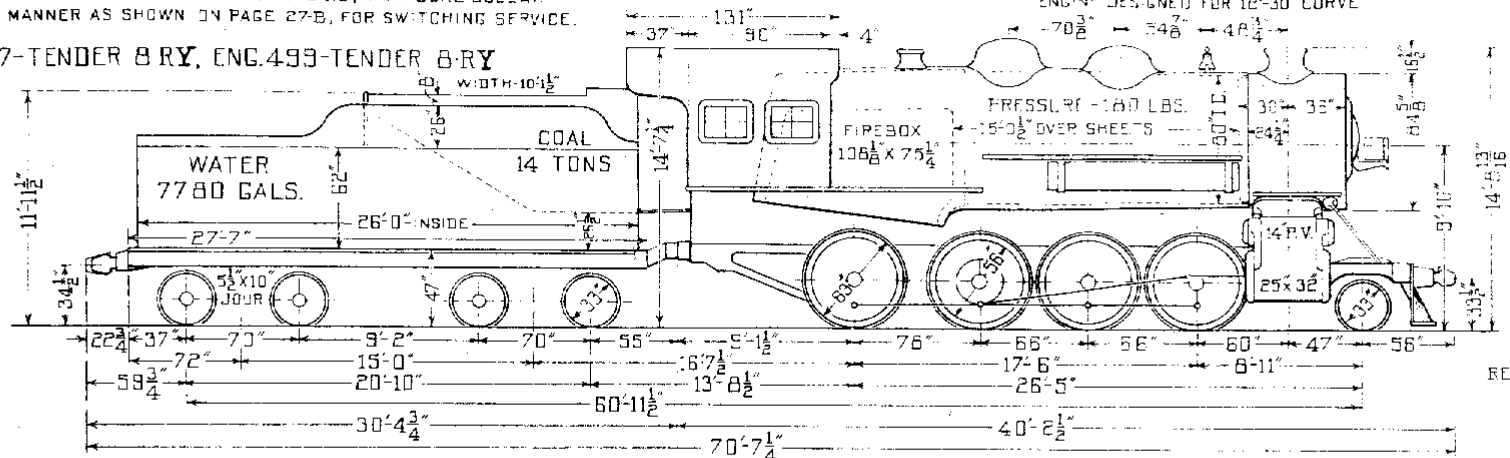
21

NOTE-1: TENDER A-RY IS CONVERTED FROM B-RY, WITH COAL COLLAR SET BACK IN, IN MANNER AS SHOWN ON PAGE 27-B, FOR SWITCHING SERVICE.

ENGINE DESIGNED FOR 12°-30' CURVE

ENG. 497-TENDER B RY, ENG. 499-TENDER B RY

ENGS.  
497  
499



REV-3-1942

WEIGHTS-

70 166

82 366

50 910

50 960

53 920

53 140

26 310

WEIGHTS IN WORKING ORDER	
ON DRIVERS	200 830 LBS.
ON ENGINE TRUCK	26 310 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	235 140 LBS.
TENDER	152 532 LBS.
ENG. & TENDER	387 672 LBS.
TUBES, NO. - 262	2" O.D.
FLUES, NO. - 34	5 3/8" O.D.
TUBES & FLUES, LENGTH	15'-0 1/2"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	108 1/2"
" WIDTH	75 3/4"
HEATING SURFACE	
TUBES & FLUES	2765.5 SQ. FT.
FIREBOX AND ARCH TUBES	212 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	2977.5 SQ. FT.
SUPERHEATER H.S.	658 SQ. FT.
GRATE AREA	56.5 SQ. FT.

JOURNALS - DRIVING MAIN	10 1/2 x 14"
" F&B	9 1/2 x 12"
INT.	9 1/2 x 14"
ENG. TRUCK	6" x 12"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	3/16"
LAP	1"
EXH. CL.	L & L.

VALVE GEAR	WA. SCHAERT
FACTOR OF ADHESION	4.30
CYLINDER HORSE POWER	2027
PERCENT BOILER TO CYL. H.P.	95.9

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET ON ENG. 499, FRANKLIN B ON ENG. 497
BLDRS. ORDER NO.	5-960
BUILER	A. L. CO.
YEAR BUILT	1912

45



TRACTIVE POWER - 29 800 LBS.

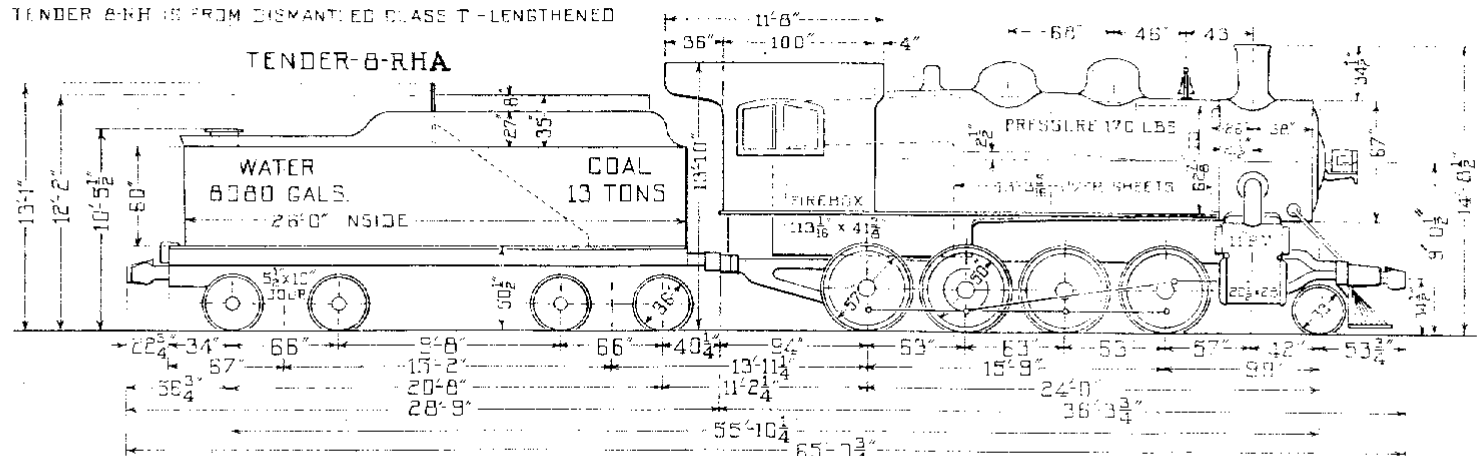
NO. OF ENGINES - 1

N. K.P.

CLASS G-41

25

TENDER B-RH IS FROM DISMANTLED CLASS T - LENGTHENED



ENG.  
408

WEIGHTS-

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 161 700 LBS</p> <p>ON ENGINE TRUCK 13 280 LBS</p> <p>ON TRAILING TRUCK</p> <p>ENGINE TOTAL 174 980 LBS</p> <p>TENDER 150 293 LBS</p> <p>ENG. &amp; TENDER 325 213 LBS</p> <p>TENDER CAP 150 293 LBS</p> <p>PLUES NO. 24 33 1/2</p> <p>TENDER LENGTH 12 1/2</p> <p>...</p>	<p>FIREBOX LENGTH 113 1/8</p> <p>WIDTH 41 3/8</p> <p>HEATING SURFACE</p> <p>TUBES &amp; FLUES 1484 50 FT</p> <p>FIREBOX AND ARCH TUBES 212 50 FT</p> <p>ARCH TUBES 50 FT</p> <p>SYPHONS 50 FT</p> <p>SAFETY VALVE SURFACE 17 06 50 FT</p> <p>SAFETY VALVE 548 50 FT</p> <p>GRATE AREA 37.5 50 FT</p>	<p>JOURNALS-DRIVING MAIN 8" X 12"</p> <p>" OTHERS 8 3/4" X 12"</p> <p>" ENG. TRUCK 5" X 11"</p> <p>VALVE DATA</p> <p>TRAVEL 5 1/2" LAP 15/16"</p> <p>LEAD 3/32" EXH. CL. L &amp; L</p>	<p>VALVE GEAR BAKER</p> <p>FACTOR OF ADHESION 3.42</p> <p>CYLINDER HORSE POWER 12 000</p> <p>PERCENT BOILER TO CYL. H.P. 1000</p>	<p>SUPERHEATER TYPE A</p> <p>F.W. HEATER</p> <p>STOKER</p> <p>BOOSTER</p> <p>REVERSE GEAR</p> <p>BUILDERS ORDER NO. 24000</p> <p>BUILDER N. K. P. ENGINES &amp; MACHS.</p> <p>YEAR BUILT 1914</p>
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40700 38000 41200 41200 13280

TRACTIVE POWER - 36600 LBS.

NO. OF ENGINES - 5  
SEE ALSO OTHER PAGES OF 26

**N. K.P. CLASS G-44**

ENGINE DESIGNED FOR 15° 20' CURVE

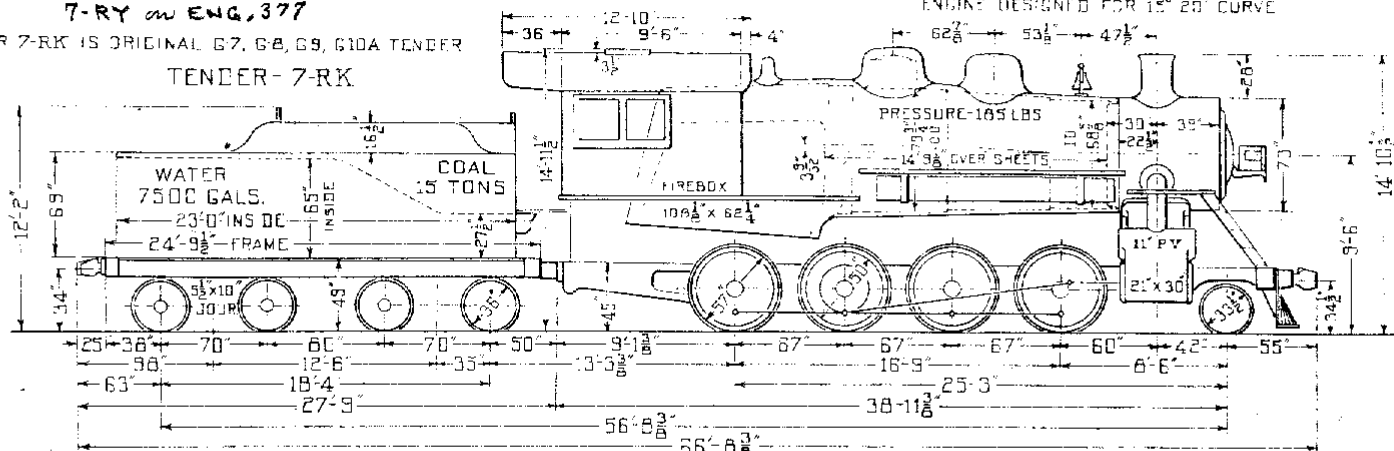
26

7-RY on ENG. 377

TENDER 7-RK IS ORIGINAL G.7, G.8, G.9, G.10A TENDER

TENDER - 7-RK

NEW BOILERS WERE APPLIED  
ON ALL.



ENGS.  
377  
385  
392  
396  
397

REV-5-1942

WEIGHTS -

74100      73400      47750      44900      45220      44770      23360

WEIGHTS IN WORKING ORDER -  
ON DRIVERS - 182 540 LBS  
ON ENGINE TRUCK - 23360 LBS  
ENGINE TOTAL - 206 000 LBS  
TENDER - 147 500 LBS  
ENG. & TENDER - 353 500 LBS  
TUBES, NO. 227 - 2" O.D.  
FLUES, NO. 30 - 5 3/8" O.D.  
TUBES & FLUES, LENGTH - 14'-9 1/2"  
ARCH TUBES, NO. 4 - 4.6 3"

FIREBOX LENGTH - 108 1/2"  
" WIDTH - 62 1/4"  
HEATING SURFACE -  
TUBES & FLUES - 23605 SQ. FT.  
FIREBOX AND ARCH TUBES - 200 SQ. FT.  
SYPHONS - SQ. FT.  
TOTAL HEATING SURFACE - 25605 SQ. FT.  
SUPERHEATER H.S. - 628 SQ. FT.  
GRATE AREA - 46.7 SQ. FT.

JOURNALS - DRIVING MAIN - 3 1/2" x 12"  
" OTHERS - 3" x 12"  
" ENG. TRUCK - 6" x 12"  
VALVE DATA -  
TRAVEL 5/16" - LAP 15/16"  
LEAD 1/4" - EXH. CL L & R

VALVE GEAR - BAKER  
FACTOR OF ADHESION - 4.99  
CYLINDER HORSE POWER - 1465  
PERCENT BOILER TO CYL. H.P. - 114.7

SUPERHEATER - TYPE A  
F.W. HEATER  
STOKER  
BOOSTER  
REVERSE GEAR - FRANKLIN-E ON ENGS. -  
377, 385, 392, 397; - RAGONNET-7 ON 396.  
BLDRS. ORDER NO. B-975-ENG. 377,  
ORDER B-975-ENGS. 385, 392, 395, 397.  
BUILDER - A.L.C.D. - BROOKS WKS.  
YEAR BUILT - 1904

52

TRACTIVE POWER - 36 600 LBS.

NO OF ENGINES - 3  
SEE ALSO OTHER PAGES OF 26

**N. K.P. CLASS G-44**

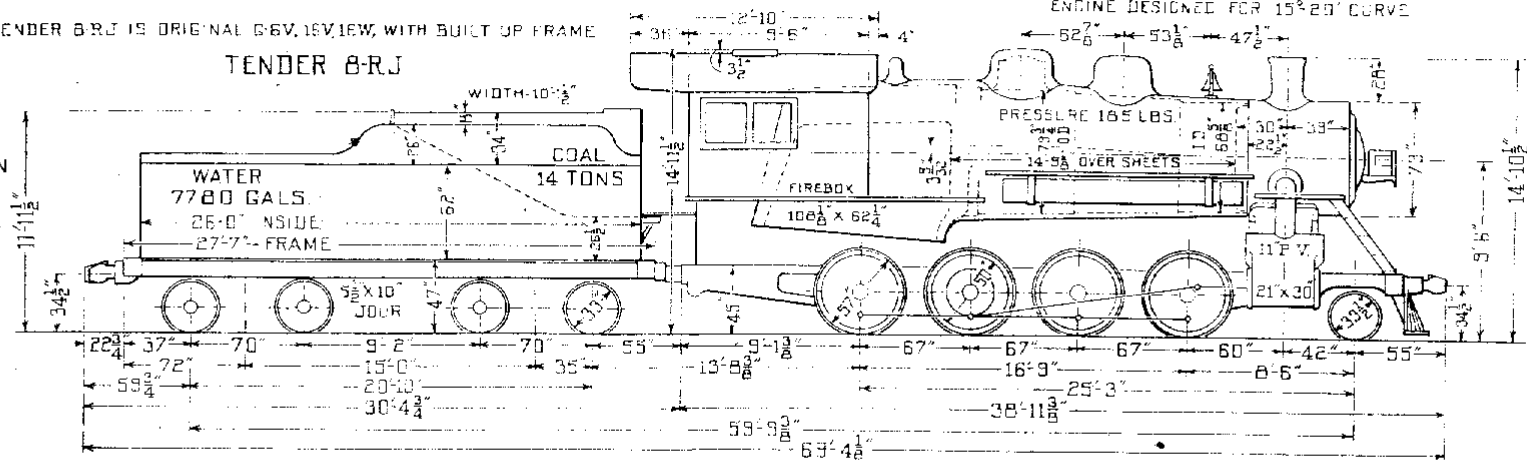
26-A

ENGINE DESIGNED FOR 15° 20' CURVE

TENDER B-RJ IS ORIGINAL G-6V, 15V, 16W, WITH BUILT UP FRAME

TENDER B-RJ

NEW BOILER ON  
ENG. 380



ENGS.  
379  
380  
381

REV 5-1942

WEIGHTS - 70165 82355 47750 44900 45220 44770 23360

WEIGHTS IN WORKING ORDER	
ON DRIVERS	182 540 LBS
ON ENGINE TRUCK	23 360 LBS
ON TRAILING TRUCK	
ENGINE TOTAL	206 000 LBS
TENDER	152 532 LBS
ENG. & TENDER	358 532 LBS
TUBES, NO.	227 - 2 1/2"
FLUES, NO.	30 - 5 3/8" O.D.
TUBES & FLUES LENGTH	14'-9 1/2"
ARCH TUBES, NO.	4 - O.D. 3"

FIREBOX LENGTH	106 1/8"
WIDTH	62 1/4"
HEATING SURFACE	
TUBES & FLUES	2360.5 SQ. FT.
FIREBOX AND ARCH TUBES	200 SQ. FT.
SYMPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	2560.5 SQ. FT.
SUPERHEATER H.S.	628 SQ. FT.
GRATE AREA	46.7 SQ. FT.

JOURNALS-DRIVING MAIN	5 1/2" x 12"
" OTHERS	3 1/2" x 12"
" ENG. TRUCK	6" x 12"
VALVE DATA	
TRAVEL	6 1/4" - LAP 15/16"
LEAD	1/2" - EXH. CL. L. Ex.

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.99
CYLINDER HORSE POWER	146.9
PERCENT BOILER TO CYL. H.P.	114.7

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	FRANKLIN'S ON ENGS. 379, RAGONNET 2" ON 380, 381.
BLDGS. ORDER NO.	B 575
BUILDER	A L CO - BROOKLYN, N.Y.
YEAR BUILT	1904

A-25

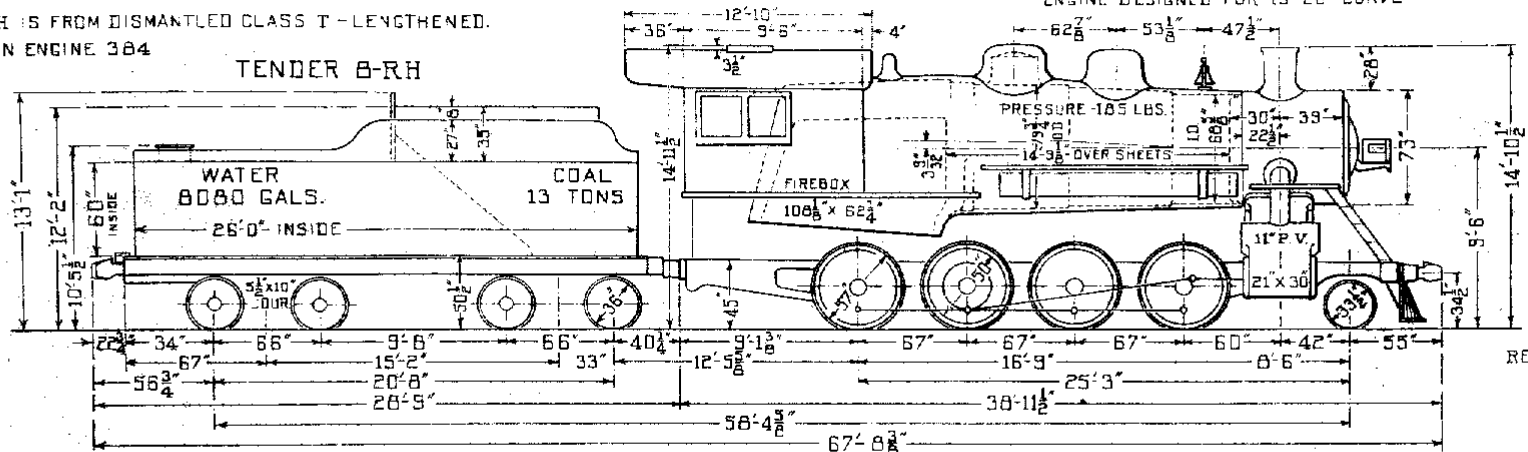
TRACTION POWER - 36 600 LBS.

NO. OF ENGINES - 3  
SEE ALSO OTHER PAGES OF 26

N. K.P. CLASS G-44  
ENGINE DESIGNED FOR 15° 20' CURVE

26-B

TENDER B-RH IS FROM DISMANTLED CLASS T - LENGTHENED.  
NEW BOILER ON ENGINE 384



ENGS.  
382  
384  
389  
398

REV-5-1942

WEIGHTS-

67' 8 1/2" 47750 44900 45220 44770 23360

WEIGHTS IN WORKING ORDER	
ON DRIVERS	182 540 LBS.
ON ENGINE TRUCK	25 360 LBS.
ENGINE TOTAL	206 000 LBS.
TENDER	150 233 LBS.
ENG. & TENDER	356 500 LBS.
TUBES, NO. - 227 - 2" O.D.	
FLUES, NO. - 30 - 5 3/8" O.D.	
TUBES & FLUES, LENGTH	14'-9 1/2"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	108 1/2"
" WIDTH	62 1/2"
HEATING SURFACE	
TUBES & FLUES	2360.5 SQ. FT.
FIREBOX AND ARCH TUBES	200 SQ. FT.
SYPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	2560.5 SQ. FT.
SUPERHEATER H.S.	628 SQ. FT.
GRATE AREA	46.7 SQ. FT.

JOURNALS-DRIVING MAIN	5 1/2" X 12"
" OTHERS	5" X 12"
" ENG. TRUCK	6" X 12"
VALVE DATA	
TRAVEL	6 1/4" LAP 15/16"
LEAD	1/4" EXH. CL. L & L

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.33
CYLINDER HORSE POWER	1463
PERCENT BOILER TO CYL. H.P.	114.7

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	HABONNET-7 ON ENG. 384, FRANKLIN-E ON ENGS. 382, 389, 398.
BLOBS, ORDER NO. B-976	ENG. 382
ORDER B-975	ENGS. 384, 389, 398.
BUILDER	A.L.CO. BROOKS WKS.
YEAR BUILT	1904

TRACTIVE POWER-49 750 LBS. (AT 200 LBS. PRESS. 24 CYLS.)  
 NOTE-1 ENCS. WITH 185 LBS. PRESSURE HAVE TRACTIVE POWER OF 43500 LBS. AND  
 FAC. ADH. 4.32 CYL. H.P. 2083 PERCENT BOILER TO CYL. H.P. 104.5; ENCS. ARE  
 500, 504, 508

NO. OF ENGINES — 6  
 SEE ALSO OTHER PAGES OF 27

N. K.P. CLASS H-5A

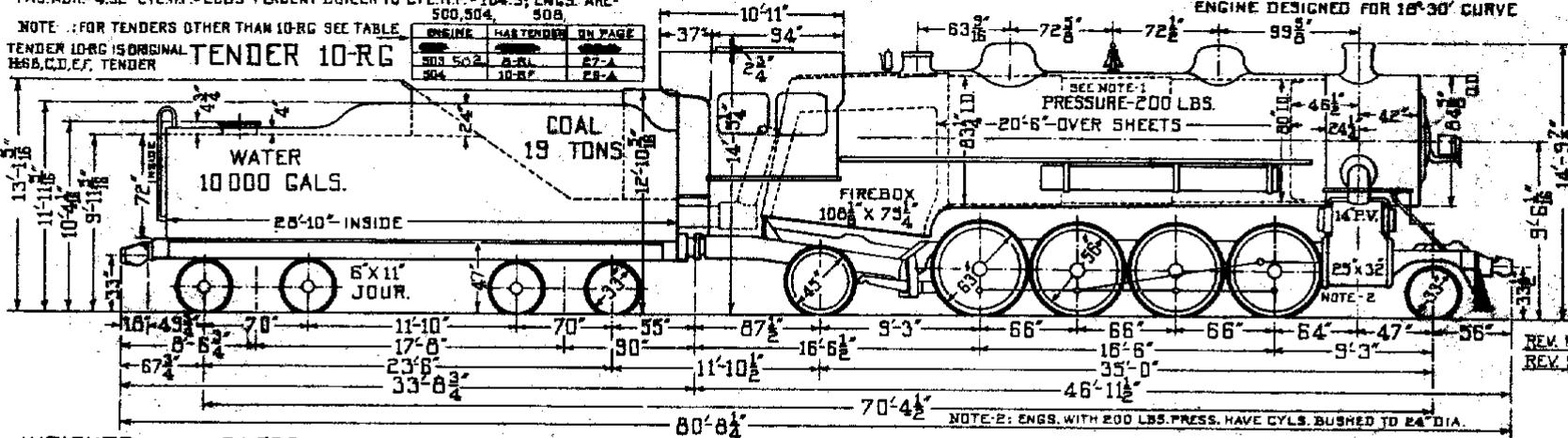
27

NOTE: FOR TENDERS OTHER THAN 10-RG SEE TABLE  
 TENDER 10-RG IS ORIGINAL  
 H65, C, D, E, F, TENDER

ENGINE	HAS TENDER	ON PAGE
500, 502, 504	Y	27-A
503, 504	N	28-A

ENGINE DESIGNED FOR 18° 30' CURVE

ENCS.  
 500  
 502  
 503  
 504  
 505  
 508



WEIGHTS- 94568 96432 43600 58450 62660 52380 51460 23200

REV. NOV. 1940  
 REV. 5-1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	224350 LBS.
ON ENGINE TRUCK	23200 LBS.
ON TRAILING TRUCK	43800 LBS.
ENGINE TOTAL	281750 LBS.
TENDER	191000 LBS.
ENG. & TENDER	482750 LBS.
TUBES, NO. 237 - 2" O.D.	
FLUES, NO. 35 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	20'-6"
ARCH TUBES, NO. 4 - 0.5.3"	

FIREBOX LENGTH	
LENGTH	102 9/16"
WIDTH	75 1/2"
HEATING SURFACE	
TUBES & FLUES	3775.7 SQ. FT.
FIREBOX AND ARCH TUBES	230 SQ. FT.
SYMPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	4008.7 SQ. FT.
SUPERHEATER H.S.	853 SQ. FT.
GRATE AREA	55.5 SQ. FT.

JOURNALS - DRIVING MAIN	
DRIVING MAIN	10 1/2" x 19"
OTHERS	8 1/2" x 12"
ENGINE TRUCK	
ENGINE TRUCK	6" x 12"
TRAILER	8" x 14"
VALVE DATA	
TRAVEL	5 3/8" - LAP 1"
LEAD	5/32" - KEN. CL. L.A.L.

VALVE GEAR	
VALVE GEAR	BAKER
FACTOR OF ADHERION	4.32
CYLINDER HORSE POWER	2076
PERCENT BOILER TO CYL. H.P.	104.5
	SEE NOTE-1

SUPERHEATER TYPE	
SUPERHEATER TYPE	A
F.W. HEATER	
STOKER - DR	ON ENCS. 500, 502, 503, 504, 505.
SEAKER - D-1	ON ENCS. 507, 508
REVERSE GEAR	WASOMNET ON 503, 508.
PRECISION SW	ON ENCS. 500, 504, 505.
ALCO. GEAR	ON ENCS. 502, 507.
BLDRS. ORDER NO.	5429
DRAWING	LIMA LOCO. WORKS
YEAR BUILT	APRIL-1917

TRACTIVE POWER- 49 900 LBS.

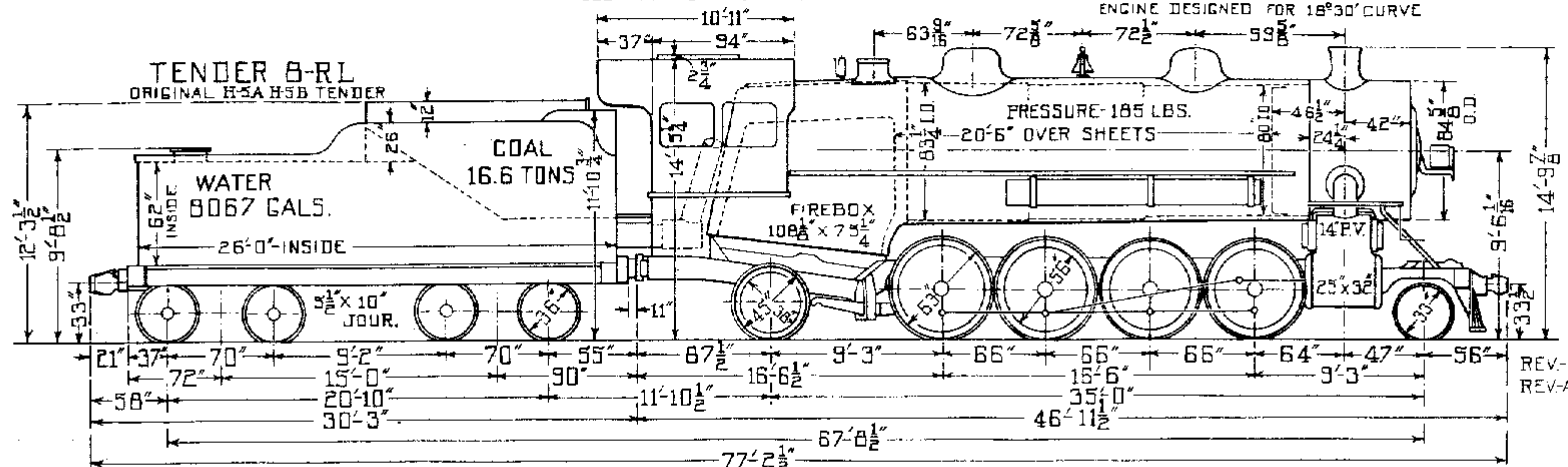
NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 27

N. K.P. CLASS H-5A

27-A

ENGINE DESIGNED FOR 18°30' CURVE

ENG. 509



REV-NOV-1938  
REV-AUG-1942

WEIGHTS- 71 300 90 950 43 600 58 450 62 650 52 380 51 460 23 200

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 224 350 LBS.</p> <p>ON ENGINE TRUCK 23 200 LBS.</p> <p>ON TRAILING TRUCK 43 500 LBS.</p> <p>ENGINE TOTAL 291 750 LBS.</p> <p>TENDER 152 230 LBS.</p> <p>ENG. &amp; TENDER 454 000 LBS.</p> <p>TUBES, NO. 237 - 2" O.D.</p> <p>FLUES, NO. 36 - 5 3/8" O.D.</p> <p>TUBES &amp; FLUES, LENGTH 20'-6"</p> <p>FROM TENDER, NO. 4 - O.D. 3"</p>	<p>FIREBOX LENGTH 108 1/8"</p> <p>" WIDTH 75 1/4"</p> <p>HEATING SURFACE</p> <p>TUBES &amp; FLUES 3728.7 SQ. FT.</p> <p>FIREBOX AND ARCH TUBES 230 SQ. FT.</p> <p>SYPHONS SQ. FT.</p> <p>TOTAL HEATING SURFACE 4008.7 SQ. FT.</p> <p>SUPERHEATER H.S. 883 SQ. FT.</p> <p>GRATE AREA 56.5 SQ. FT.</p>	<p>JOURNALS-DRIVING MAIN 10 1/2" x 17"</p> <p>" OTHERS 9 1/2" x 12"</p> <p>ENG. TRUCK 6" x 12"</p> <p>TRAILER 8" x 14"</p> <p>VALVE DATA</p> <p>TRAVEL 6 3/8" LAP 1"</p> <p>LEAD 3/32" EXH. CL. L. &amp; L.</p>	<p>VALVE GEAR BAKER</p> <p>FACTOR OF ADHESION 4.52</p> <p>CYLINDER HORSE POWER 2023</p> <p>PERCENT BOILER TO CYL. H.P. 104.5</p>	<p>SUPERHEATER-TYPE A</p> <p>F.W. HEATER</p> <p>STOKER D-2</p> <p>BOOSTER</p> <p>REVERSE GEAR-RAGONNET ON SC9</p> <p>BLDGS. ORDER NO. 3428</p> <p>BUILDER LIMA LCCO. WORKS</p> <p>YEAR BUILT APRIL-1917</p>
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A-55

TRACTIVE POWER 49 750 LBS. - AT 200 LBS. PRESS.

NOTE-1: ENGS. WITH 165 LBS. PRESSURE HAVE TRACTIVE POWER OF 49900 LBS. FAC. ADH. = 4.50, CYL. R.P. = 2083, PERCENT BOILER TO CYL. H.P. = 104.5 - ENG. 507. CYLINDERS 25" DIA. - NOT BUSHED.

NO. OF ENGINES - 3  
SEE ALSO OTHER PAGES OF 27

N. K. P.

CLASS H-5A

27B

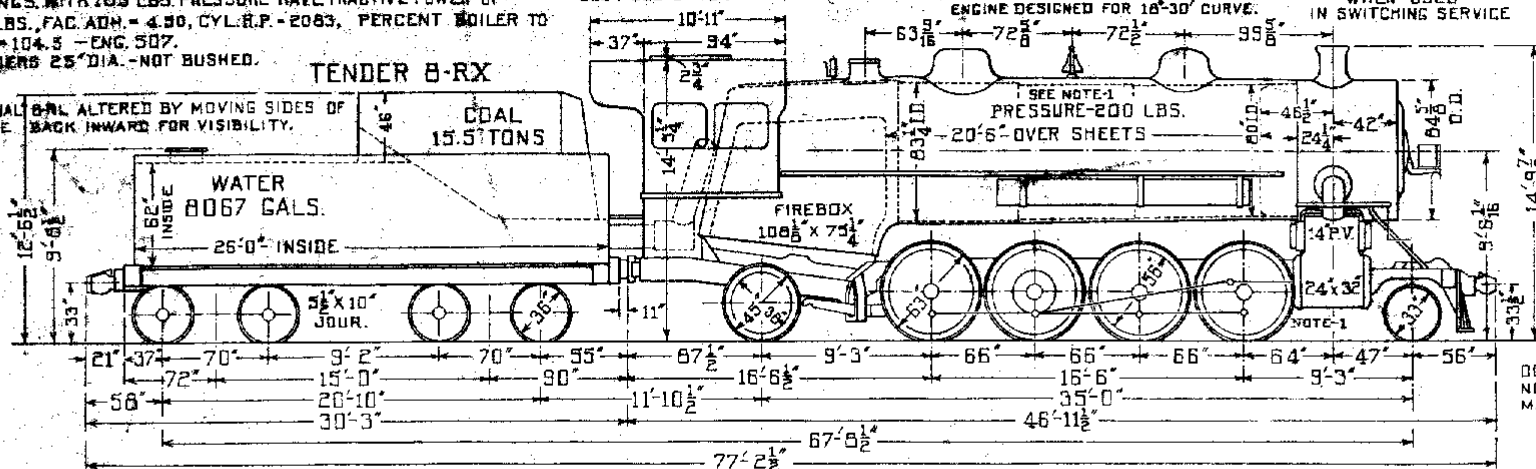
ENGINE DESIGNED FOR 16°-30' CURVE.

WHEN USED IN SWITCHING SERVICE

ENGS.  
501  
506  
507

TENDER B-RX

B-RX IS ORIGINAL TENDR. ONLY ALTERED BY MOVING SIDES OF COAL SPACE BACK INWARD FOR VISIBILITY.



WEIGHTS-

71 300

88 950

43 600

58 450

62 660

52 360

51 460

23 200

WEIGHTS IN WORKING ORDER	
ON DRIVERS	224 350 LBS.
ON ENGINE TRUCK	23 200 LBS.
ON TRAILER TRUCK	43 600 LBS.
ENGINE TOTAL	291 750 LBS.
ENG. & TENDER	452 000 LBS.
TENDER	160 250 LBS.
FLUES, NO. 36-5 1/2" O.D.; TUBES-257 2" O.D.	
TUBES & FLUES, LENGTH	20' 6"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	102 1/2"
" WIDTH	75 1/4"
TUBES & FLUES	3775.7 SQ. FT.
FIREBOX AND ARCH TUBES	230 SQ. FT.
SMOKESTACKS	50 SQ. FT.
TOTAL HEATING SURFACE	4009.7 SQ. FT.
SUPERHEATER H.S.	893 SQ. FT.
GRATE AREA	56.5 SQ. FT.

JOURNALS DRIVING-MAN	10 1/2" x 17"
" " OTHERS	9 1/2" x 12"
" ENG. TRUCK	6" x 12"
" TRAILER	8" x 14"
VALVE GEAR	BAKER
TRAVEL	8 3/8"
LEAD	3/32"
VALVE GEAR	BAKER
FACTOR OF ADHESION	NOTE 1 4.52
CYL. HORSE POWER	2076
PERCENT BOILER TO CYL. N. P.	104.5

SUPERHEATER-TYPE	A
F. W. HEATER	
STOKER	D-2
BOOSTER	
REVERSE GEAR	WAGNETT ON 501
BEVERAGE GEAR	ALCO. ON 506, 507

BLDRS. ORDER NO. 5428  
BUILDER - LIMA LCCO. WORKS  
YEAR BUILT APRIL 1917

OCT-1939  
NOV-1840  
MAY-1942

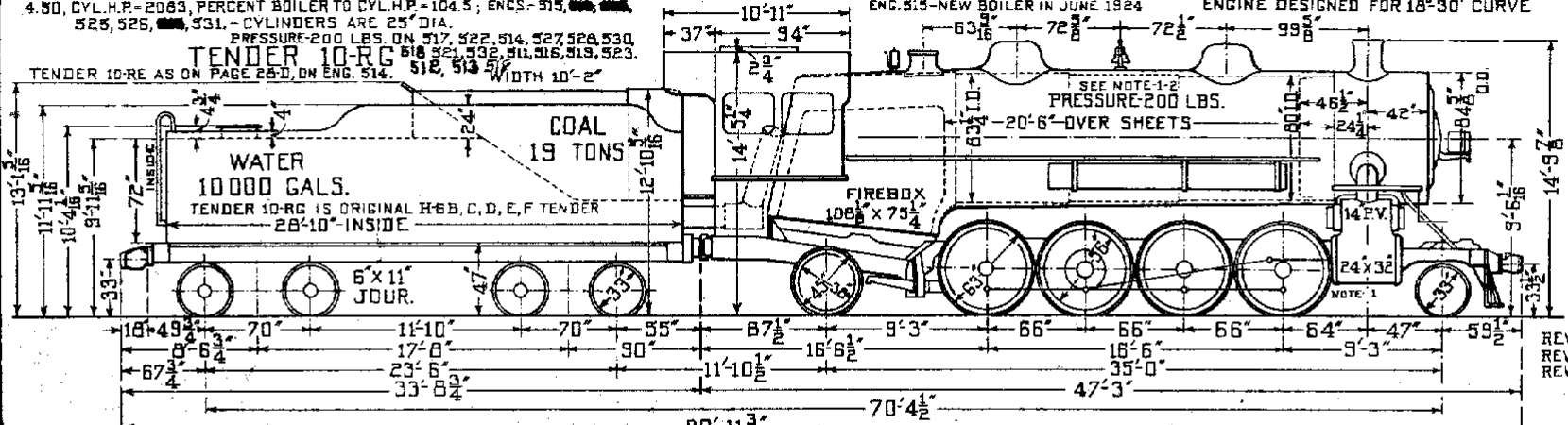
51-B

TRACTIVE POWER-49750 LBS. SEE NOTE-1-P  
 NOTE-1 ENGS. WITH 185 LBS. PRESSURE, TRACTIVE POWER OF 49900 LBS., FAC. ADH. OF 4.50, CYL. H.P. = 2083, PERCENT BOILER TO CYL. H.P. = 104.5; ENGS-515, 522, 525, 526, 531, 532, 533. PRESSURE-200 LBS. ON 517, 522, 514, 527, 528, 530, 518, 521, 532, 511, 516, 519, 523.  
 525, 526, 531. - CYLINDERS ARE 23" DIA.  
 TENDER 10-RG IS ORIGINAL H-5B, C, D, E, F TENDER  
 TENDER 10-RE AS ON PAGE 25-D, ON ENG. 514.

NO. OF ENGINES - 19  
 SEE ALSO OTHER PAGES OF 28

N. K.P. CLASS H-5 B  
 ENGINE DESIGNED FOR 18°30' CURVE

(28)



- ENGS.  
 511 523  
 512 525  
 513 526  
 514 527  
 515 528  
 516 530  
 517 531  
 518 532  
 521  
 522

REV. DEC-1937  
 REV. APR-1938  
 REV. MAY-1942

WEIGHTS- 94568 96432 80'11 3/4 43600 58450 62660 52380 51460 23200  
 NOTE-2: ENGS. WITH 200 LBS. PRESS. - T. POWER-49750, FAC. ADH. 4.50, CYL. H.P. 2076, PERCENT BOILER TO CYL. H.P. = 104.6

WEIGHTS IN WORKING ORDER

ON DRIVERS	224350 LBS.
ON ENGINE TRUCK	23200 LBS.
ON TRAILING TRUCK	43600 LBS.
ENGINE TOTAL	231750 LBS.
TENDER	191000 LBS.
ENGS. & TENDER	482750 LBS.
TUBES, NO. 237 - 2" O.D.	
FLUES, NO. 36 - 5 3/8" O.D.	
TUBES & FLUES, LENGTH - 20'-6"	
ARCH TUBES, NO. 2 - 0.3"	

FIREBOX LENGTH	108 1/2"
" WIDTH	75 1/4"
" HEATING SURFACE	
TUBES & FLUES	3773.7 SQ. FT.
FIREBOX AND ARCH TUBES	230 SQ. FT.
SYTHONS	80. FT.
TOTAL HEATING SURFACE	4003.7 SQ. FT.
SUPERHEATER H.S.	593 SQ. FT.
GRATE AREA	56.5 SQ. FT.

JOURNALS - DRIVING WHEEL	10 1/2" x 17"
" " OTHERS	9 1/2" x 12"
ENG. TRUCK	8" x 12"
TRAILER	8" x 14"
VALVE DATA	
TRAVEL	7"
LEAD	5/16"
LAP	1"
KIN. CL. L. & L.	

VALVE GEAR	BAKER
FACTOR OF ADMISION	4.52
CYLINDER HORSE POWER	2076
PERCENT BOILER TO CYL. H.P.	104.6

SUPERHEATER TYPE	A
F.W. HEATER	SEE NOTE-3
STOKER	D-1 ON 518, 523; OTHERS - D-2
BOOSTER	
REVERSE GEAR	PRECISION ON-515, 516, 522, 523, 526, 531, 521, 516, 519
ALCO. ON	514, 517, 530, 532
RACONNET ON	525, 527, 528, 511, 512, 513
BLDRS. ORDER NO.	B-1448
BUHLER	BROOKS
YEAR BUILT	AUG - 1917



TRACTIVE POWER 49 900 LBS. NOTE-1  
 NOTE-1: ENGS. WITH 200 LBS. PRESSURE HAVE TRACTIVE POWER OF  
 49 750 LBS., FAC. ADH. 4.52, CYL. H.P. 2076, PERCENT BOILER TO  
 CYL. H.P. 104.8 - ENGS. 525, 520, 524 CYLS. 24" DIA.

NO. OF ENGINES - 3  
 SEE ALSO OTHER PAGES OF 28

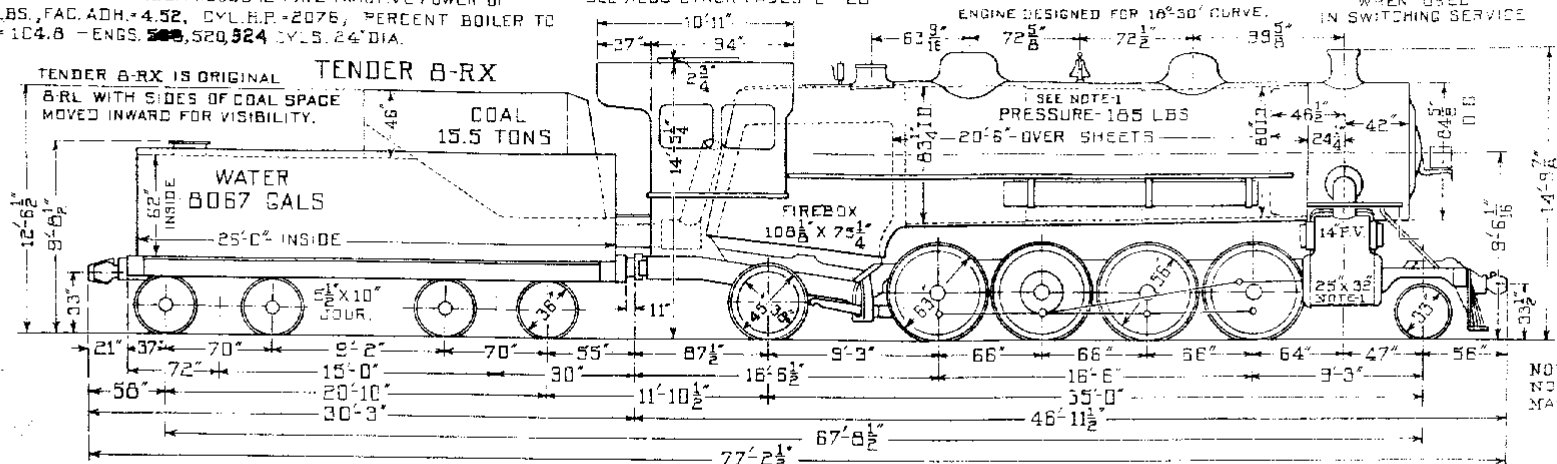
N. K. P.

CLASS H-5B

280

ENGINE DESIGNED FOR 16° 50' CURVE.  
 WHEN USED IN SWITCHING SERVICE

ENGS  
 525  
 524  
 533



WEIGHTS- 71300 68950 43600 58450 62660 52380 51460 23200

WEIGHTS IN WORKING ORDER	
ON DRIVERS	224 950 LBS.
ON ENGINE TRUCK	23 200 LBS.
ON TRAILING TRUCK	43 500 LBS.
ENGINE TENDERS	291 750 LBS.
ENG. & TENDER	452 000 LBS.
TENDER	160 250 LBS.
FLUES, NO. 36-5 3/8 O.D. TUBES 257-2 3/4	
TUBES & FLUES, LENGTH	20-5 7/8
ARCH TUBES, NO. 4 O.D. 3 1/2	

FIREBOX LENGTH	108 1/2	
" WIDTH	75 3/4	
" HEATING SURFACES		
TUBES & FLUES	3779.7	SQ. FT.
FIREBOX AND ARCH TUBES	230	SQ. FT.
SYPHONS		SQ. FT.
TOTAL HEATING SURFACE	4009.7	SQ. FT.
SUPERHEATER H.S.	893	SQ. FT.
GRATE AREA	56.5	SQ. FT.

JOURNALS DRIVING-MAN	1 1/2 X 1 7/8
" OTHERS	3 1/2 X 1 1/2
ENG. TRUCK	6 X 1 1/2
TRAILER	6 X 1 1/2
VALVE DATA	
TRAVEL	7
LEAD	5/32
VALVE GEAR	EXH. CL. L & L
FACTOR OF ADHESION	4.50
CYL. HORSE POWER	NOTE-1 2083
PERCENT BOILER TO CYL. H. P.	104.5

SUPERHEATER-TYPE	A
F. W. HEATER	
STOKER	D-2
BOOSTER	
REVERSE GEAR	RAGONNET ON 520, 524
REVERSE GEAR	PRECISION ON 533

BLDRS. ORDER NO. 21449  
 BUILDER A.L.C.O. BROOKS WORKS  
 YEAR BUILT AUG. 1917

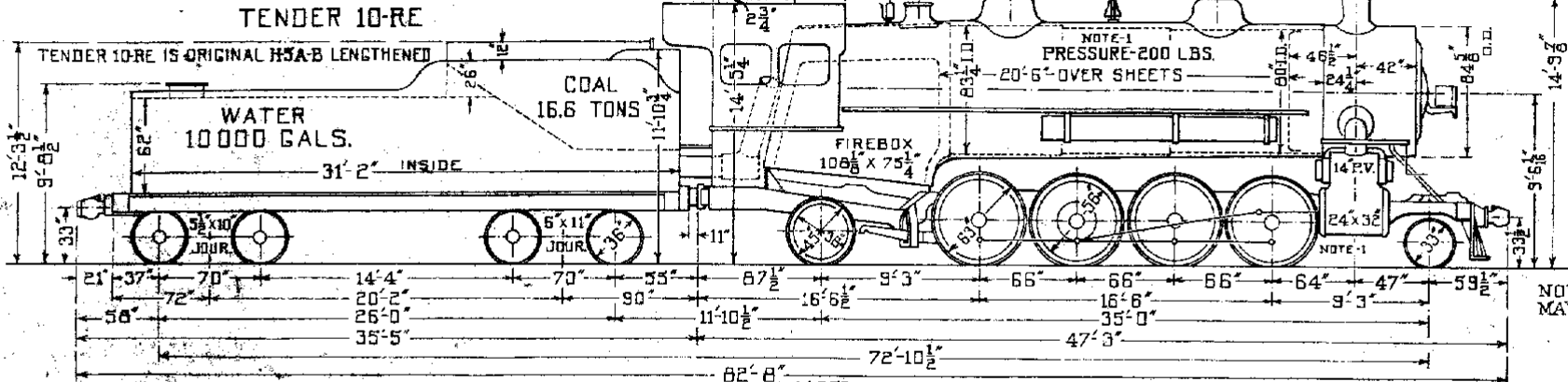
58-C

TRACTIVE POWER-49 750 LBS. AT 200 LBS. PRESSURE  
 NOTE-1: ENGS WITH 185 LBS. PRESSURE HAVE TRACTIVE POWER OF 43 900 LBS.  
 FAC. ADH. 4.81 CYL. H.P. 2080, PERCENT BOILER TO CYL. H.P.-104.5, CYLS. 25" IN  
 DIA.-NOT BUSHED - ENCS. 529.

NO. OF ENGINES - 3  
 SEE ALSO OTHER PAGES OF 28

**N. K.P. CLASS H-5 B**  
 ENGINE DESIGNED FOR 18° 30' CURVE

**(28D)**  
 ENCS.  
 510  
 529  
 534



WEIGHTS - 79 000	97 000	82'-8"	44850	60120	54320	53360	52450	23 850-WTS. ENG. 529.
			43600	58450	52660	52380	51460	23 200-WTS. ENCS. 510, 534.

WEIGHTS IN WORKING ORDER  
 DR. ENGINE OVER-ALL 23 850 LBS.  
 DR. ENGINE TENDER 23 200 LBS.  
 DR. TENDER TENDR 43 800 LBS.  
 TENDER TOTAL - 23 200 LBS.  
 TENDER & TENDR 46 750 LBS.  
 ENCS. & TENDR 45 750 LBS.  
 TUBES, NO. 257 2" O.D. SEE NOTE-2  
 FLUES, NO. 35 3 3/8" O.D.  
 TUBES & FLUES LENGTH 20'-6"  
 ARCH TUBES, NO. 4 - 3" O.D.

FIREBOX LENGTH 108 5/8"  
 " WIDTH 75 1/4"  
 HEATING SURFACES  
 TUBES & FLUES 3779.7 SQ. FT.  
 FIREBOX AND ARCH TUBES 230 SQ. FT.  
 SYPHONS 50 SQ. FT.  
 TOTAL HEATING SURFACE 4009.7 SQ. FT.  
 SUPERHEATER H.A. 895 SQ. FT.  
 GRATE AREA 56.5 SQ. FT.

JOURNALS DRIVING MAIN 10 1/2" X 12"  
 " OTHERS 8 1/2" X 12"  
 " ENG. TRUCK 8" X 12"  
 " TRAILER 8" X 14"  
 VALVE DATA  
 TRAVEL 7" LIP 1"  
 LEAD 5/32 EXN. 6L LBS. L.  
 VALVE GEAR 32 BAKER  
 FACTOR OF ADHESION - NOTE-1 4.50  
 CYL HORSE POWER 2076  
 PERCENT BOILER TO CYL. H. P. 104.8

SUPERHEATER-TYPE A  
 F. W. HEATER NOTE-2  
 STOKER D-2  
 BOOSTER  
 REVERSE GEAR PRECISION ON  
 534, RACONNET ON 529, 510.

NOTE-2 WORTHINGTON-3 B SW/HTR ON 529  
 WEIGHT ON DRIVERS 230 250 LBS.  
 WT. TOTAL ENGINE 298 750 LBS.  
 TOTAL ENG. & TENDER 474 750 LBS.  
 BUILDERS ORDER B-144 B  
 BUILDER BROOKS  
 YEAR BUILT AUG. 1917

NOV. 1940  
 MAY-1942

C-88

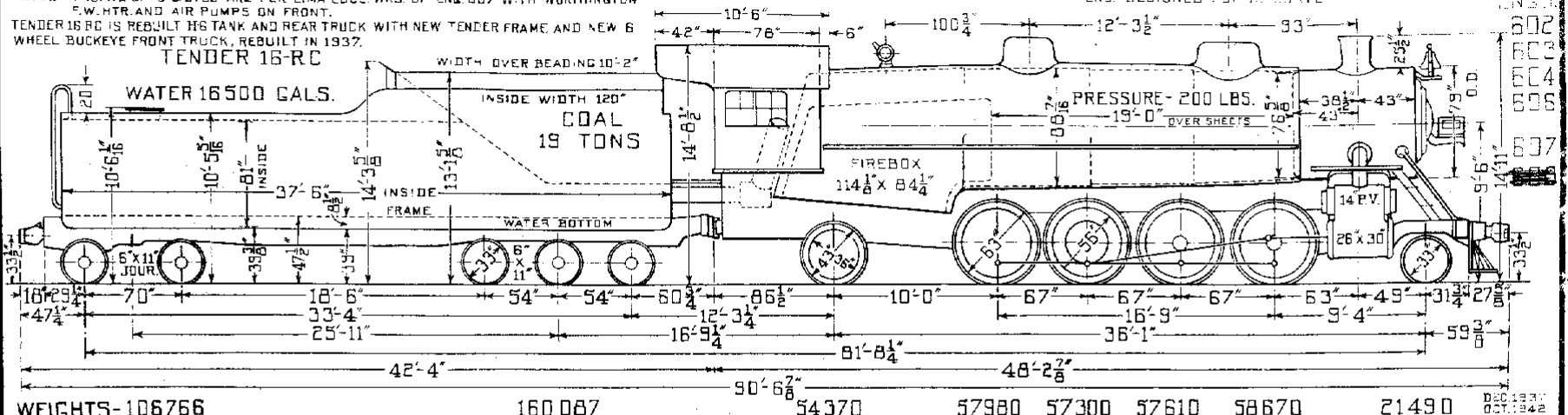
TRACTIVE POWER-54 700 LBS.

NO. OF ENGINES-65  
SEE ALSO OTHER PAGES OF 29

N. K.P. CLASS H-6A

29

NOTE: ENG. WEIGHTS LISTED ARE PER LIMA LOCO WKS. OF ENG. 607 WITH WORthington  
F.W. HTR. AND AIR PUMPS ON FRONT.  
TENDER 16 RC IS REBUILT HS TANK AND REAR TRUCK WITH NEW TENDER FRAME AND NEW 6  
WHEEL BUCKEYE FRONT TRUCK, REBUILT IN 1937.



WEIGHTS-106766

160087

90'-6<sup>7</sup>/<sub>8</sub>"

54370

57980

57300

57610

58670

21490

D80183  
OCT. 1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	231550 LBS.
ON ENGINE TRUCK	21450 LBS.
ON TRAILING TRUCK	34370 LBS.
ENGINE TOTAL	307420 LBS.
TENDER	288833 LBS.
ENG. & TENDER	374273 LBS.
TUBES, NO. 213 - 2 1/4" O.D.	
FLUES, NO. 40 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH - 15'-0"	
ARCH TUBES, NO. 4 - 0.0.3"	

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	34511 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS	60. FT.
TOTAL HEATING SURFACE	37441 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	56.7 SQ. FT.

JOURNALS-DRIVING MAIN	11" X 13"
" " OTHERS	10" X 13"
ENG. TRUCK	8 1/2" X 12"
TRAILER	9" X 14"
VALVE DATA	
TRAVEL	5 1/2" - LAP 1"
LEAD	3/16" - EXN. CL. L. & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.23
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	34.7

SUPERHEATER-TYPE	A
F.W. HEATER	WORTHINGTON
STOKER	DUPLEX-D1
BOOSTER	
REVERSE GEAR	PRECISION

BLDGS. ORDER NO. - 5-1259  
BUILDER - A.L.CO. - SCHENECTADY  
YEAR BUILT - OCT-1916

TRACTIVE POWER-54700 LBS.

NOTE-1 ENG. 610 HAS NO COMBUSTION CHAMBER AND TUBES AND FLUES ARE 21'-0" LONG OVER SHEETS.  
TENDER 18-RC AS ON PAGE 29 ON ENGINE 605

TENDER 10-RF IS ORIGINAL H-6A H-60 TENDER TENDER 10-RF

NO OF ENGINES-4  
SEE ALSO OTHER PAGES OF 29

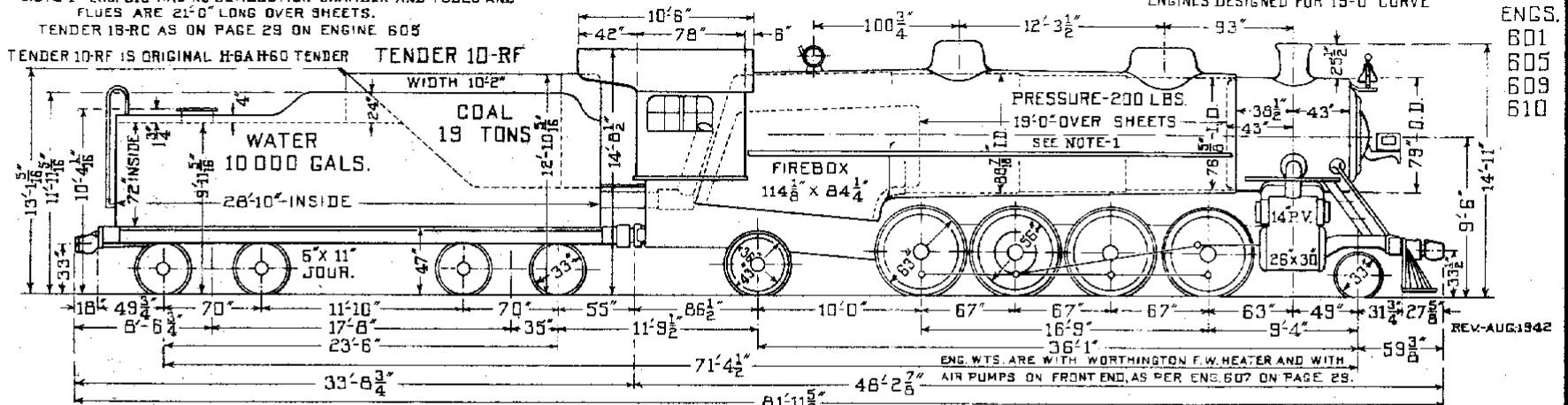
N. K. P.

CLASS H-6A

ENGINES DESIGNED FOR 19° 0' CURVE

29-A

ENGS.  
601  
605  
609  
610



WEIGHTS- 94568 96432 54370 57980 57300 57610 58670 21490

WEIGHTS IN WORKING ORD. 5	
ON DRIVERS	231560 LBS.
ON ENGINE TRUCK	21490 LBS.
ON TRAILING TRUCK	54370 LBS.
ENGINE TOTAL	307420 LBS.
TENDER	131000 LBS.
ENG. & TENDER	438420 LBS.
TUBES, NO. 213 - 8 1/4" O.D.	
FLUES, NO. 40 - 3 1/2" O.D.	
TUBES & FLUES, LENGTH - 19'-0"	
ARCH TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	3461.1 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	3744.1 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS-DRIVING MAIN	11" x 13"
" OTHERS	10" x 13"
" ENG. TRUCK	6 1/2" x 12"
" TRAILER	9" x 14"
VALVE DATA	
TRAVEL	5 1/2" - LAP 1"
LEAD	3/16" - EXH. C. L. A. L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.23
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CVL. N.P.	94.7

SUPERHEATER-TYPE	A
F.W. HEATER	WORTHINGTON-TYPE-BL
STOKER	DUPLEX-D-1
BOOSTER	
REVERSE GEAR	PRECISION

BLDRS. ORDER NO. 9-1259  
BUILDER - A. L. CO. - SCHENECTADY  
YEAR BUILT - OCT-1918

REV-AUG1942

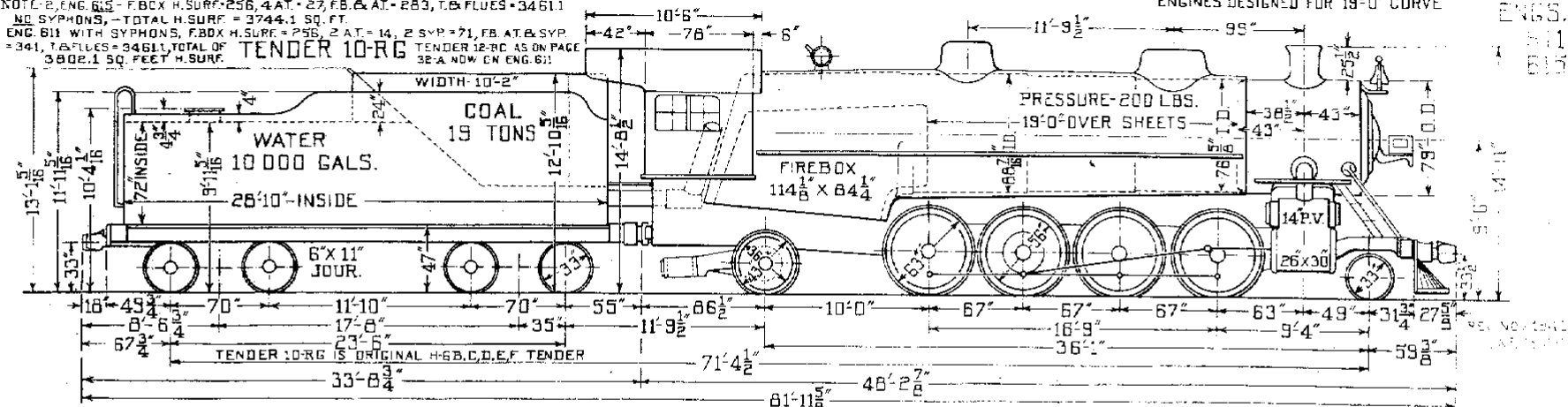
50 V

TRACTIVE POWER=54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER=64100 LBS. WITH BOOSTER.  
 NOTE: 2, ENG. 615 - F.BOX H.SURF.=256, 4 AT. 27, FB. & AT. 283, T. & FLUES = 34611  
 NO SYPHONS, - TOTAL H.SURF. = 37441 SQ. FT.  
 ENG. 611 WITH SYPHONS, F.BOX H.SURF. = 256, 2 AT. = 14, 2 SYP. = 71, FB. AT. & SYP.  
 = 341, T. & FLUES = 34611, TOTAL OF TENDER 10-RG TENDER 12-RC AS ON PAGE  
 3802.1 SQ. FEET H.SURF. 38-A NOW ON ENG. 611

NO. OF ENGINES - 2  
 SEE ALSO OTHER PAGES OF 30

N. K.P. CLASS H-6B  
 ENGINES DESIGNED FOR 19° 0' CURVE

30  
 ENGS.  
 611  
 615



WEIGHTS- 94568 96432 50290 53410 62640 56240 56770 20650

WEIGHTS IN WORKING ORDER	
ON DRIVERS	239 060 LBS.
ON ENGINE TRUCK	20 650 LBS.
ON TRAILING TRUCK	60 290 LBS.
ENGINE TOTAL	320 000 LBS.
TENDER	191 000 LBS.
ENG. & TENDER	511 000 LBS.
TUBES, NO. - 213 - 2 1/2" O.D.	
FLUES, NO. - 40 - 3 1/2" O.D.	
TUBES & FLUES, LENGTH - 19' 0"	
AREA, TUBES - 60.4 - O.D. 3"	
2 OR 4 - NOTE 2, ABOVE	

FIREBOX LENGTH	114 7/8"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	34611 SQ. FT.
FIREBOX AND ARCH TUBES - 4	283 SQ. FT.
ARCH TUBES	27 SQ. FT.
SYPHONS AND FIREBOX - 2 AT.	341 SQ. FT.
TOTAL HEATING SURFACE	
SUPERHEATER I.I.S.	882 SQ. FT.
GRATE AREA	55.7 SQ. FT.
ENG. 611 WITH SYPHONS, TOTAL H.SURF.	35021.30 SQ. FT.
ENG. 615 WITHOUT	37441.30 SQ. FT.

JOURNALS - DRIVING MAIN	11" X 13"
" OTHERS	10" X 13"
" ENG. TRUCK	6 1/2" X 12"
" TRAILER	9" X 14"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	3/16"
LAP	1"
EXH. CL. L. & L.	

VALVE GEAR - WALSCHAERT  
 FACTOR OF ADHESION - 4.37  
 CYLINDER HORSE POWER - 2434  
 PERCENT BOILER TO CYL. H.P. - NOTE 1

SUPERHEATER - TYPE	A
F.W. HEATER WORTHINGTON	615
STOKER	DUPLX
BOOSTER	
REVERSE GEAR	PRECISION
NOTE 1: ENG. 611 WITH SYPHONS, PRESENT BOILER = 100.3; ENG. 615, NO SYPHONS, PRESENT	
BLDRS. ORDER NO.	1832
BUILDER	LIMA LOCO WORKS
YEAR BUILT	DEC. 1920

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER.  
 TRACTIVE POWER 64100 LBS. WITH BOOSTER.

NO. OF ENGINES - 1  
 SEE ALSO OTHER PAGES OF 30

N. K.P.

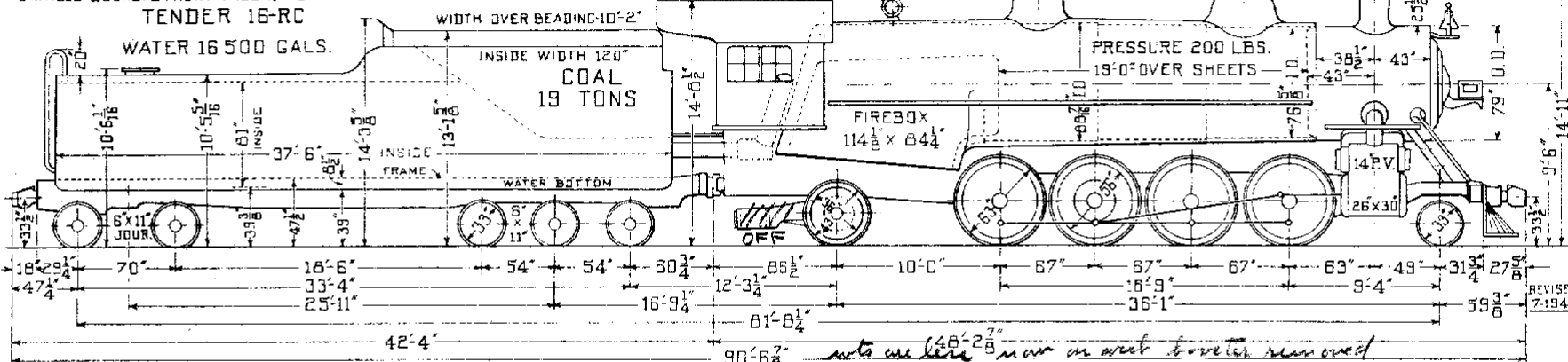
CLASS H-6B

30-A

ENGINE DESIGNED FOR 19° 30' CURVE

ENG. 614

TENDER 16-RC IS RESULT HIS TANK AND REAR TRUCKS, WITH NEW FRAME AND NEW 8 WHEEL BUCKEYE FRONT TRUCK, REBUILT IN 1937.



WEIGHTS-106766 160087 90'6 7/8" *note see here 48'-2 7/8" max in over to water removed* 60290 63410 62640 56240 55770 20650

WEIGHTS IN WORKING ORDER	
ON DRIVERS	239060 LBS.
ON ENGINE TRUCK	80680 LBS.
ON TRAILING TRUCK	60290 LBS.
ENGINE TOTAL	320000 LBS.
TENDER	66853 LBS.
ENG. & TENDER	566853 LBS.
TUBES, NO. 213 - 2 1/2" O.D.	
TUBES & FLUES, LENGTH - 19'-0"	
ARCH TUBES, NO. 2 - O.D. 3"	

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	34611 SQ. FT.
FIREBOX AND ARCH TUBES	270 SQ. FT.
SYPHONS - 2 DOWN FLOW	100 SQ. FT.
TOTAL HEATING SURFACE	38311 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	56.7 SQ. FT.

JOURNALS-DRIVING MAIN	11" x 13"
" OTHERS	10" x 13"
ENG. TRUCK	6 1/2" x 12"
TRAILER	9" x 14"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	3/16"
LAP	1"
EXH. CL. L. & L.	

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.37
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	54.7

SUPERHEATER-TYPE	A
F.W. HEATER	WORTHINGTON-TYPE-BL
STOKER	DUPLEX-D1
BOOSTER	
REVERSE GEAR	PRECISION
BLDRS. ORDER NO.	1022
BUILDER	LIMA LOCO. WORKS
YEAR BUILT	DEC. 1920

30-A

TRACTIVE POWER - 54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER - 64100 LBS. WITH BOOSTER

NO. OF ENGINES - 2  
 SEE ALSO OTHER PAGES OF 30

N. K.P.

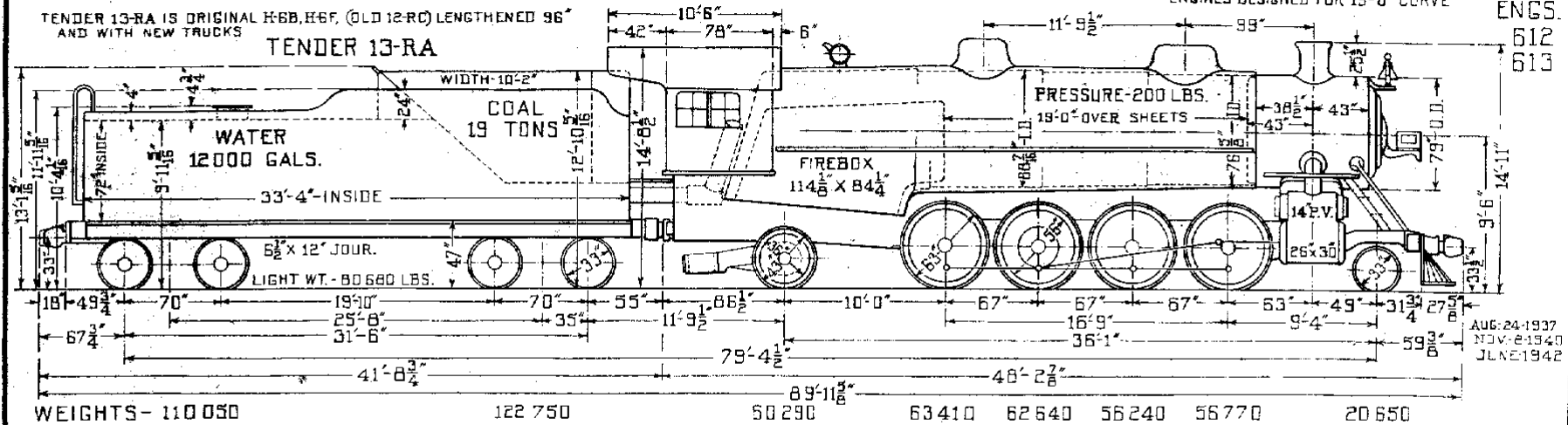
CLASS H6B

ENGINES DESIGNED FOR 19° 0' CURVE

(30B)

TENDER 13-RA IS ORIGINAL H6B, H6F, (OLD 12-RC) LENGTHENED 96"  
 AND WITH NEW TRUCKS

TENDER 13-RA



ENGS.  
 612  
 613

WEIGHTS - 110050

122750

50290

63410

62640

56240

56770

20650

AUG-24-1937  
 NOV-8-1940  
 JUNE-1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	239060
ON ENGINE TRUCK	209560
ON TRAILING TRUCK	60280
ENGINE TOTAL	329000
TENDER	329000
ENG. & TENDER	558000
TUBES, NO. - 213 - 2 1/4" O.D.	
FLUES, NO. - 40 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH - 19' 0"	
ARCH TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	114 1/8"
WIDTH	84 1/4"
HEATING SURFACE	
TUBES & FLUES	3451.1 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
	REV-11-8-1940
SYPHONS	150 SQ. FT.
TOTAL HEATING SURFACE	3744.1 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS - DRIVING MAIN	11" X 13"
" " OTHERS	10" X 13"
ENG. TRUCK	6 1/2" X 12"
TRAILER	9" X 14"
VALVE DATA	
TRAVEL	5 1/2"
LEAD	3/16"
LAP	1"
EXH.	CL. L. & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.37
CYLINDER HORSE POWER	24.34
PERCENT BOILER TO CYL. H.P.	94.7

SUPERHEATER TYPE	A
F.W. HEATER	WORTHINGTON - B
STOKER	DUPLEX - D1
BOOSTER	YES
REVERSE GEAR	PRECISION
BLDGS. ORDER NO. 1172	
BUILDER - LIMA LOCO. WORKS	
YEAR BUILT - DEC-1920	

30-C

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER-64100 LBS. WITH BOOSTER

TENDER 13 RA AS ON PAGE 32 ON ENG. 628.  
 TENDER 12-RC AS ON PAGE 32-A ON ENGS. 617, 618.

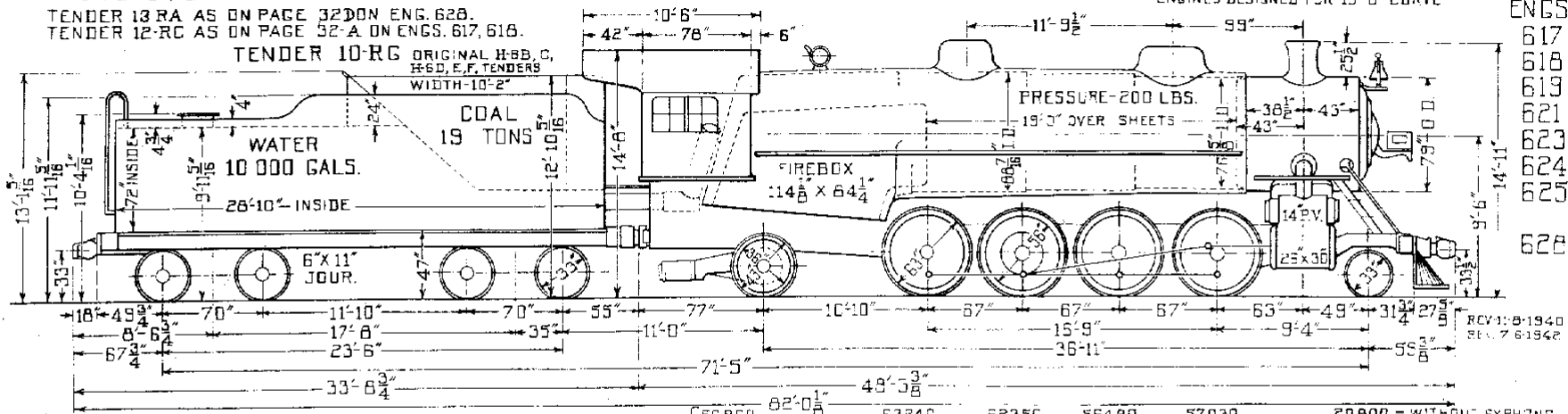
NO. OF ENGINES - 8  
 SEE ALSO OTHER PAGES OF 32

N. K. P.

CLASS H-6D

ENGINES DESIGNED FOR 19° 0' CURVE

32



ENGS.  
 617  
 618  
 619  
 621  
 623  
 624  
 625  
 628

WEIGHTS-	94568	96432	56960	57200	62201	63240	63540	62350	62620	56490	56740	57030	57360	20800 = WITHOUT SYPHONS	20900 = WITH SYPHONS
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WEIGHTS IN WORKING ORDER	
ON DRIVERS	240 200 LBS.
ON ENGINE TRUCK	20 900 LBS.
ON TRAILING TRUCK	57 200 LBS.
ENGINE TOTAL	318 300 LBS.
TENDER	191 000 LBS.
ENG. & TENDER	509 300 LBS.
TUBES, NO. 213 - 2 1/4" O. D. SEE NOTE-2	
PIPES, NO. 40 - 5 1/2" O. D.	
VALVE GEAR, SEE LENGTH	19'-0"
TRAILER, SEE LENGTH	10'-3" NOTE-1

FIREBOX LENGTH	114 1/8"
" WIDTH	64 1/4"
" HEATING SURFACE	
TUBES & PIPES	3461.1 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS ON ENGS. 624, 625, 628.	
SYPHONS	SEE NOTE NO. 1 - 50 FT.
TOTAL HEATING SURFACE	3744.150 FT.
SUPERHEATER, H.S.	682 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS - DRIVING MAIN	11" X 13"
" OTHERS	10" X 13"
ENG. TRUCK	6 1/2" X 12"
TRAILER	9" X 14"
VALVE DATA	
TRAVEL	5 1/2" - LAP 1"
LEAD	3/16" - EXH. C. L. & L.

NOTE 2: WTS. WITHOUT SYPHONS ARE IN LBS. ON DRIVERS 239100, ENG. TRUCK 20600, TR. TRUCK 56900, ENG. TOTAL 316800, ENG. & TENDER TOTAL 507800 LBS.

VALVE GEAR - WALSCHAERT  
 FACTOR OF ADHESION - 4.33 - SEE NOTE-3  
 CYLINDER HORSE POWER - 2434  
 PERCENT BOILER TO CYL. H.P. - 94.7  
 SEE NOTE-2

NOTE-3: FAC. ADH. 4.33 ENCS WITH SYPHONS, 4.28 FOR ENCS WITHOUT SYPHONS.

SUPERHEATER TYPE	A
F.W. HEATER	WORTHINGTON-B
STOKER	DUPLEX-D1
BOOSTER	YES
REVERSE GEAR	PRECISION
NOTE 1: ENCS WITH SYPHONS - S. REF. FIREBOX - 3421 SQ. FT. TOTAL F. SURF - 38021 SQ. FT. PERCENT BOILER TO CYL. H.P. - 100.3	
BLDRS. ORDER NO.	1033
BUILDER	LIMA LOCO. WORKS
YEAR BUILT	NOV. 1922

REV. 8-1940  
 REV. 7-6-1942



TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER-64100 LBS. WITH BOOSTER

NO. OF ENGINES - 1  
 SEE ALSO OTHER PAGES OF 32

N.K.P.

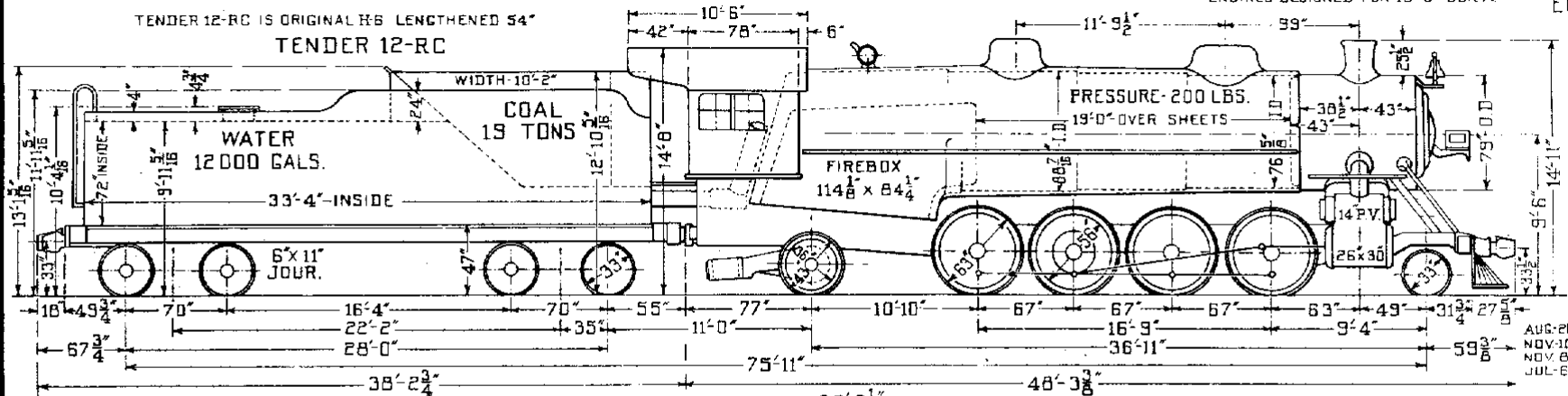
CLASS H-6D

32-A

ENGINES DESIGNED FOR 19° 0' CURVE

ENGS.

TENDER 12-RC IS ORIGINAL H-6 LENGTHENED 54"  
 TENDER 12-RC



622

WEIGHTS - 104460

113800

56900

63240

52350

56480

57030

20800

AUG-26-1937  
 NOV-10-1937  
 NOV-8-1942  
 JUL-6-1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	235100 LBS.
ON ENGINE TRUCK	208000 LBS.
ON TRAILING TRUCK	559000 LBS.
ENGINE TOTAL	3168000 LBS.
TENDER	2182800 LBS.
ENG. & TENDER	5350800 LBS.
TUBES, NO. - 213 - 2 1/4" O.D.	
FLUES, NO. - 40 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	19' 0"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	114 1/2"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	34611 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS	50. FT.
TOTAL HEATING SURFACE	3744.150. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS - DRIVING	
MAIN	11" x 13"
OTHERS	10" x 13"
ENG. TRUCK	8 1/2" x 12"
TRAILER	9" x 14"
VALVE DATA	
TRAVEL	6 1/2" - LAP 1"
LEAD	3/16" - EXH. CL. L. & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.29
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	94.7

SUPERHEATER TYPE	
F.W. HEATER	WORTHINGTON-BL.
STOKER	DUPLEX-D1
BOOSTER	YES
REVERSE GEAR	PRECISION
ELESCO EXHAUST INJECTOR ON 531	
BLDRS. ORDER NO. - 1033	
BUILDER - LIMA LCCO WORKS	
YEAR BUILT - NOV-1922	

A-55

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
TRACTIVE POWER-64100 LBS. WITH BOOSTER

NO. OF ENGINES - 2  
SEE ALSO OTHER PAGES OF 32

N. K.P.

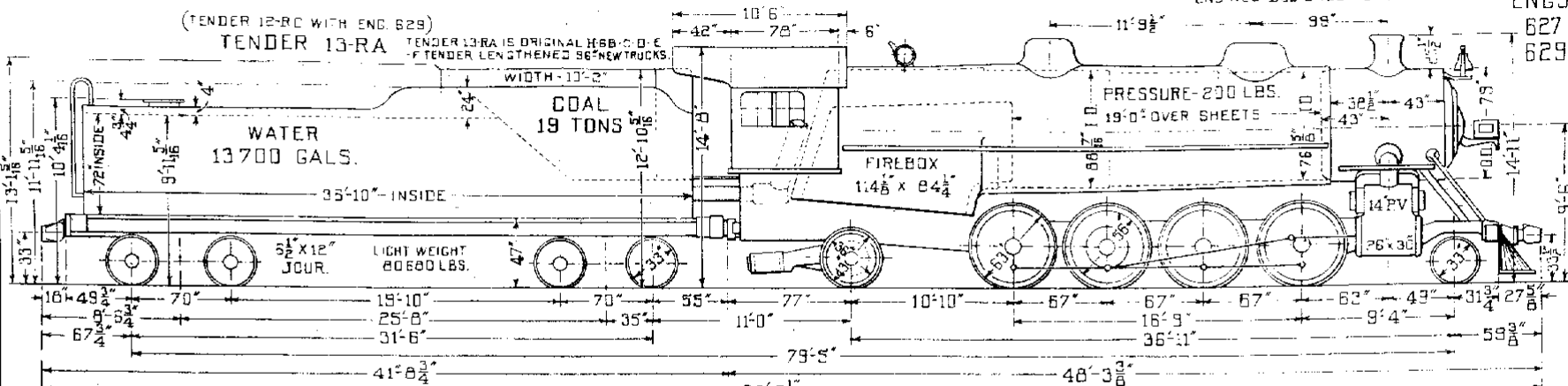
CLASS H-6D  
ENGINES DESIGNED FOR 19° D' CURVE

32-B

ENGS.

627

629



WEIGHTS -	110 050	122 750	57200	63 540	62 620	56 740	57 300	20 900	JULY-1942
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WEIGHTS IN WORKING ORDER	
ON DRIVERS	240 200 LBS.
ON ENGINE TRUCK	20 800 LBS.
ON TRAILING TRUCK	57 200 LBS.
ENGINE TOTAL	318 300 LBS.
TENDER	402 800 LBS.
ENG. & TENDER	721 100 LBS.
TUBES, NO. - 213	2 1/2" O.D.
FLUES, NO. - 40	5 1/2" O.D.
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 4	O.D. 3" NOTE-1

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/2"
" HEATING SURFACE	
TUBES & FLUES	3461.1 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYMPHONS ON ENGS. 627, 629	80. FT.
SYMPHONS	SEE NOTE NO. 1
TOTAL HEATING SURFACE	3744.1 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS - DRIVING MAIN	11" x 13"
" " OTHERS	10" x 13"
" ENG. TRUCK	6 1/2" x 12"
" TRAILER	9" x 14"
VALVE DATA	
TRAVEL	6 1/2" LAP 1"
LEAD	3/16" EXH. CL. L. & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.39
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	94.7
	SEE NOTE-1

SUPERHEATER - TYPE	
F.W. HEATER	WORTHINGTON-B.L.
STOKER	DUPLEX-D1
BOOSTER	YES
REVERSE GEAR	PRECISION
NOTE-1: ENGS. WITH SYMPHONS - TG. SURF. OF FIREBOX = 341 SQ. FT.; TOTAL H.S. = 3802.1 SQ. FT. PERCENT BOILER TO CYL. H.P. = 100.3	
BLDGS. ORDER NO.	1033
BUILDER	LIMA Locomotive WORKS
YEAR BUILT	NOV-1922

B-53

TRACTIVE POWER=54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER=64100 LBS. WITH BOOSTER

NO. OF ENGINES -1  
 SEE ALSO OTHER PAGES OF 32

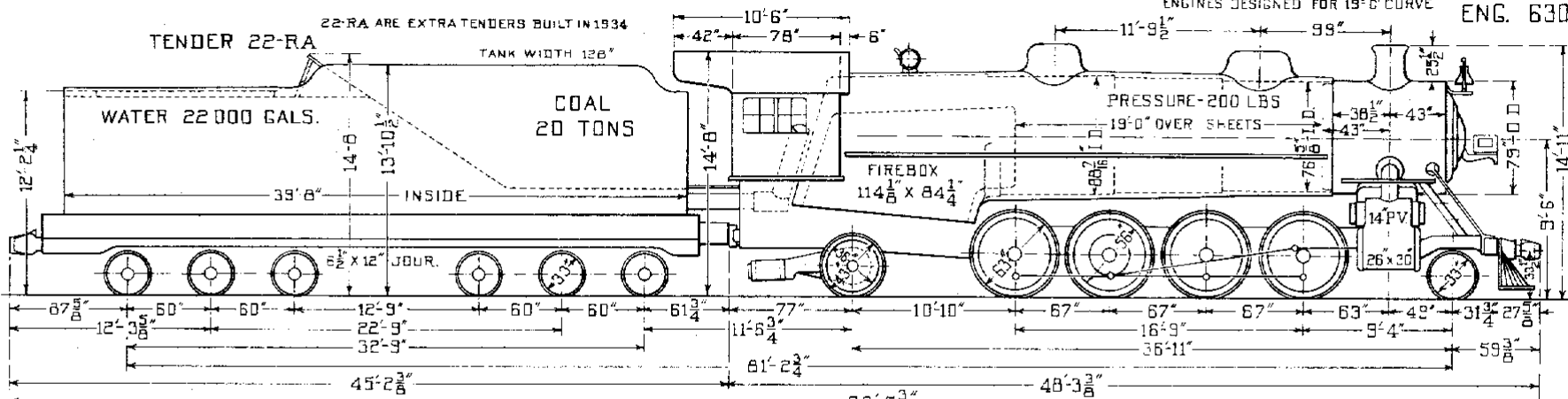
N. K.P.

CLASS H-6D

32-C

ENGINES DESIGNED FOR 19° 6' CURVE

ENG. 630



WEIGHTS- 185 500 169 500 56 900 53 240 62 350 56 480 57 030 20 800

WEIGHTS IN WORKING ORDER	
ON DRIVERS	2391 LBS.
ON ENGINE TRUCK	200 LBS.
ON TRAILING TRUCK	56 LBS.
ENGINE TOTAL	316 LBS.
TENDER	335 LBS.
END & TENDER	571 LBS.
TUBES, NO.-213-2 1/4" O.D.	
FUDES, NO.-40-5 1/2" O.D.	
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
" HEATING SURFACE	
TUBES & FLUES	34511 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	37441 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS-DRIVING MAIN	11" x 13"
" OTHERS	10" x 13"
" ENG. TRUCK	8 1/2" x 12"
" TRAILER	9" x 14"
VALVE DATA	
TRAVEL	6 1/2" - LAP 1"
LEAD	3/16" - EXH. CL. L & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.28
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	94.7

SUPERHEATER-TYPE	A
F.W. HEATER	WORTHINGTON-BL
STOKER	DUPLEX-D1
BOOSTER	YES
REVERSE GEAR	PRECISION

BLDRS. ORDER NO.	1053
BUILDER	LIMA LOCO. WORKS
YEAR BUILT	NOV.-1922

REV. NOV. 1940  
 OCT. 1942

35-C

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
TRACTIVE POWER-64100 LBS. WITH BOOSTER

NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 32

N.K.P.

CLASS H-6D

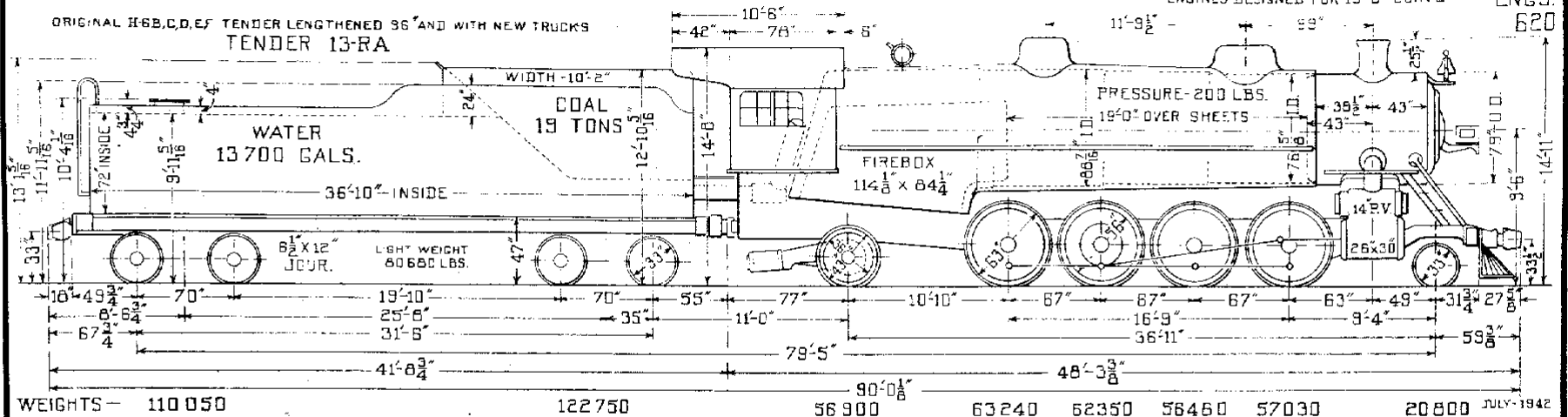
32-E

ENGINES DESIGNED FOR 19° D' CURVE

ENGS.

620

ORIGINAL H-6B,C,D,E,T TENDER LENGTHENED 36' AND WITH NEW TRUCKS  
TENDER 13-RA



WEIGHTS - 110 050

122 750

56 900

63 240

62 350

56 460

57 030

20 800

JULY-1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	239 100 LBS.
ON ENGINE TRUCK	20 800 LBS.
ON TRAILING TRUCK	56 900 LBS.
ENGINE TOTAL	316 800 LBS.
TENDER	232 800 LBS.
ENG. & TENDER	549 600 LBS.
TUBES, NO. 213	2 1/2" O.D.
FLUES, NO. 40	5 1/2" O.D.
TUBES & FLUES, LENGTH	18'-0"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	114 1/8"
" WIDTH	64 1/4"
" HEATING SURFACES	
TUBES & FLUES	3451.1 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYMPHONS	80 SQ. FT.
TOTAL HEATING SURFACE	3744.1 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS DRIVING MAIN	11" x 13"
" " OTHERS	10" x 13"
" ENG. TRUCK	8 1/2" x 12"
" TRAILER	5" x 14"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	3/16"
VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.29
C. L. HORSE POWER	2434
PERCENT BOILER TO CYL. H. P.	94.7

SUPERHEATER TYPE \_\_\_\_\_ A  
F.W. HEATER \_\_\_\_\_ WORTHINGTON-BL  
STOKER \_\_\_\_\_ DUPLFX-DI  
BOOSTER \_\_\_\_\_ YES  
REVERSE GEAR \_\_\_\_\_ PRECISION  
SAFETY VALVES \_\_\_\_\_

BLDG'S. ORDER NO. \_\_\_\_\_ 1033  
BUILDER \_\_\_\_\_ LIMA LOCO. WORKS  
YEAR BUILT \_\_\_\_\_ NOV.-1922

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER-64100 LBS. WITH BOOSTER

NO. OF ENGINES-2  
 SEE ALSO OTHER PAGES OF 32

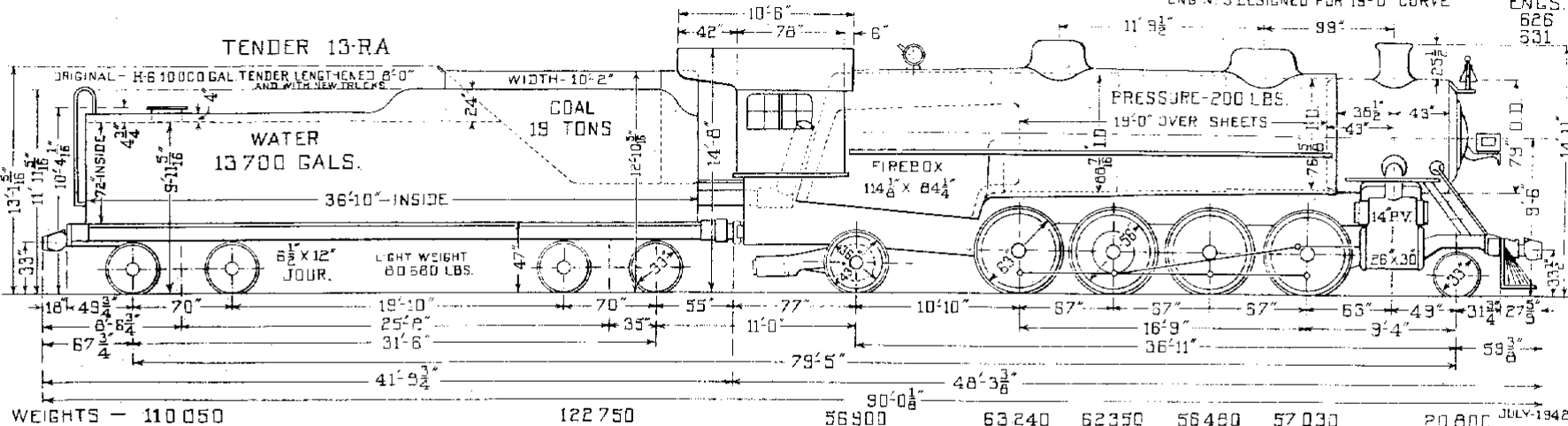
N. K. P.

CLASS H-6D

ENGINES DESIGNED FOR 19° 0' CURVE

32-D

ENCS.  
 626  
 331



<b>WEIGHTS IN WORKING ORDER</b> ON DRIVERS 239100 LBS. ON ENGINE TRUCK 20800 LBS. ON TRAILING TRUCK 56900 LBS. ENGINE TOTAL 116800 LBS. TENDER 332800 LBS. ENG. & TENDER 549600 LBS.		<b>FIREBOX LENGTH</b> 114 1/2" <b>WIDTH</b> 84 1/2" <b>HEATING SURFACES</b> TUBES & FLUES 34611 SQ. FT. FIREBOX AND ARCH TUBES 283 SQ. FT.		<b>JOURNALS DRIVING-MAIN</b> 11" x 13" " OTHERS 10" x 13" " ENG. TRUCK 6 1/2" x 12" " TRAILER 9" x 14" VALVE DATA TRAVEL 6 1/2" LAP 1" LEAD 3/16" EXM. CL. L & L VALVE GEAR WALSCHAERT FACTOR OF ADHESION 4.25 HORSE POWER 2434 PERCENT BOILER TO CYL. H. P. 84.7		SUPERHEATER-TYPE _____ A F.W. HEATER _____ WORTHINGTON-BL STOKER _____ DUPLEX-D1 BOOSTER _____ YES REVERSE GEAR _____ PRECISION ELESKO EXHAUST INJECTOR ON 631		BLDG. ORDER NO. 1033 BUILDER LIMA Locomotive WORKS YEAR BUILT NOV. 1942	
SYPHONS _____ SQ. FT. TOTAL HEATING SURFACE 37441 SQ. FT. SUPERHEATER H.S. 882 SQ. FT. GRATE AREA 66.7 SQ. FT.		ARCH TUBES, NO. 4 O.D. 3"		TUBES, NO. 213 2 1/4 O.D. FLUES, NO. 40 5 1/2 O.D. TUBES & FLUES LENGTH 19' 0" ARCH TUBES, NO. 4 O.D. 3"					

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
TRACTIVE POWER-64100 LBS. WITH BOOSTER

NO. OF ENGINES - 7  
SEE ALSO OTHER PAGES OF 33

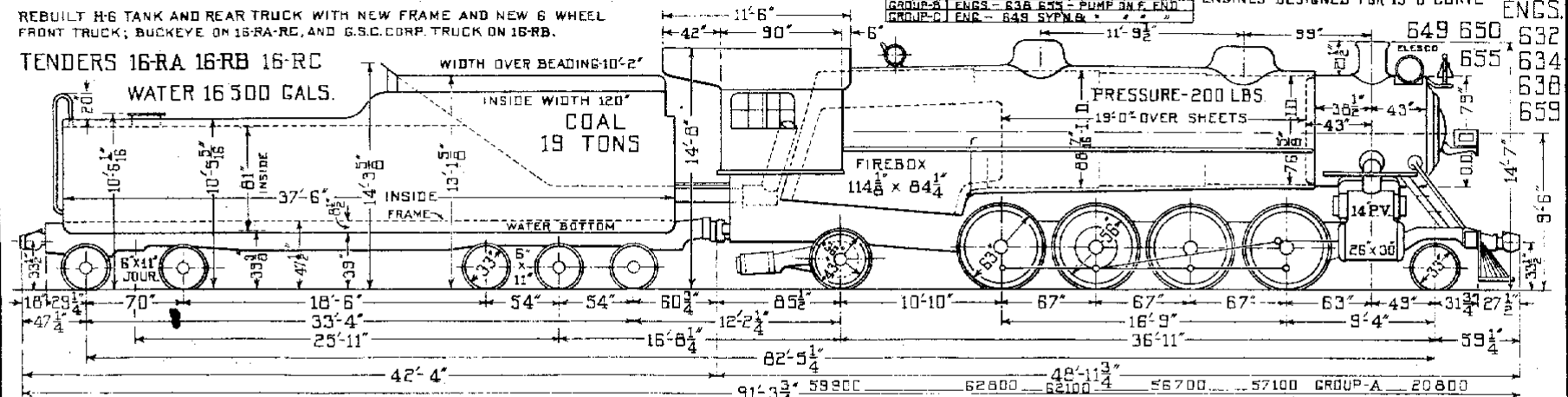
**N. K. P.**

CLASS **H-6E**

**33**

REBUILT H-6 TANK AND REAR TRUCK WITH NEW FRAME AND NEW 6 WHEEL  
FRONT TRUCK; BUCKEYE ON 16-RA-RC, AND G.S.C. CORP. TRUCK ON 16-RB.

TENDERS 16-RA 16-RB 16-RC  
WATER 16 500 GAL.  
COAL  
19 TONS



WEIGHTS - 106786

160 087

59200	62800	62100	56700	57100	GROUP-A	20800
58260	51150	60550	56650	59250	GROUP-B	21540
60230	53900	59000	55900	56380	GROUP-C	21400

WEIGHTS IN WORKING ORDER - LBS.  
ON DRIVERS - SEE TABLE  
ON ENGINE TRUCK - SEE INDIVIDUAL WTS.  
ON TRAILER TRUCK - " " "  
ENGINES - SEE TABLE - LBS.  
TENDERS - 266 853 LBS.  
TENDERS - SEE TABLE  
TUBES, PIPES - 2 1/4" O.D.  
FLUES, NO. - 40 - 5 1/2" O.D.  
TRUCK & TENDER LENGTH - 13' 0"  
AREA TRUCK NO. 4 - 0.53" NOTE-1

FIREBOX LENGTH - 114 3/8"  
" WIDTH - 84 1/4"  
" HEATING SURFACE - 3451.1 SQ. FT.  
TUBES & FLUES - 3451.1 SQ. FT.  
FIREBOX AND ARCH TUBES - 280 SQ. FT.  
SYPHONS ON ENG. 649  
SYPHONS - SEE NOTE-1  
TOTAL HEATING SURFACE - 3744.1 SQ. FT.  
SUPERHEATER H.S. - 882 SQ. FT.  
GRATE AREA - 66.7 SQ. FT.

JOURNALS - DRIVING MAIN - 11" X 13"  
" OTHERS - 10" X 13"  
" ENG. TRUCK - 5 1/2" X 12"  
" TRAILER - 9" X 14"

GROUP	WT. ON DRIVERS	WT. TOTAL ENG.	ENG. & TENDER
A	236 700	319 400	800 250
B	238 600	319 400	800 250
C	239 180	320 810	800 250

VALVE DATA  
TRAVEL 8 3/4" LAP 1 1/4"  
LEAD 3/16" EXH. CL.  
FACTOR OF ADHESION  
ENCS GROUP-A - 4.36  
ENCS GROUP-B - 4.36  
ENCS GROUP-C - 4.37  
VALVE GEAR - BAKER  
CYLINDER HORSE POWER - 2434  
PERCENT BOILER TO CVL. H.P. - 94.7  
NOTE-1: ENG. 649 - HTG. SURF. FBX & SYPH. = 341 SQ. FT.; TOTAL H. SURF. = 3602.1 SQ. FT.  
PERCENT BOILER TO CVL. H.P. = 100.3

SUPERHEATER - TYPE - A  
F.W. HEATER - ELESKO OR WORTN - NOTE-2  
STOKER - DUPLEX - D-2  
BOOSTER - YES  
REVERSE GEAR - PRECISION  
NOTE - ELESKO-DN 632, 634, 638.  
WORTHINGTON-BL-DN 649, 655, 659, 650.  
B.L.D.S. ORDER NO. - 1048  
BUILDER - LIMA LOCO. WORKS  
YEAR BUILT - DEC - 1923

GROUP-A	ENCS - 649 654 650 655	ENGS.	649	650	632
GROUP-B	ENCS - 638 655 - PUMP ON F. END		655		634
GROUP-C	ENG - 649 SYPH. B.				638
					659

ENGINES DESIGNED FOR 19° D' CURVE

TRACTIVE POWER 54700 LBS. WITHOUT BOOSTER  
TRACTIVE POWER 64100 LBS. WITH BOOSTER

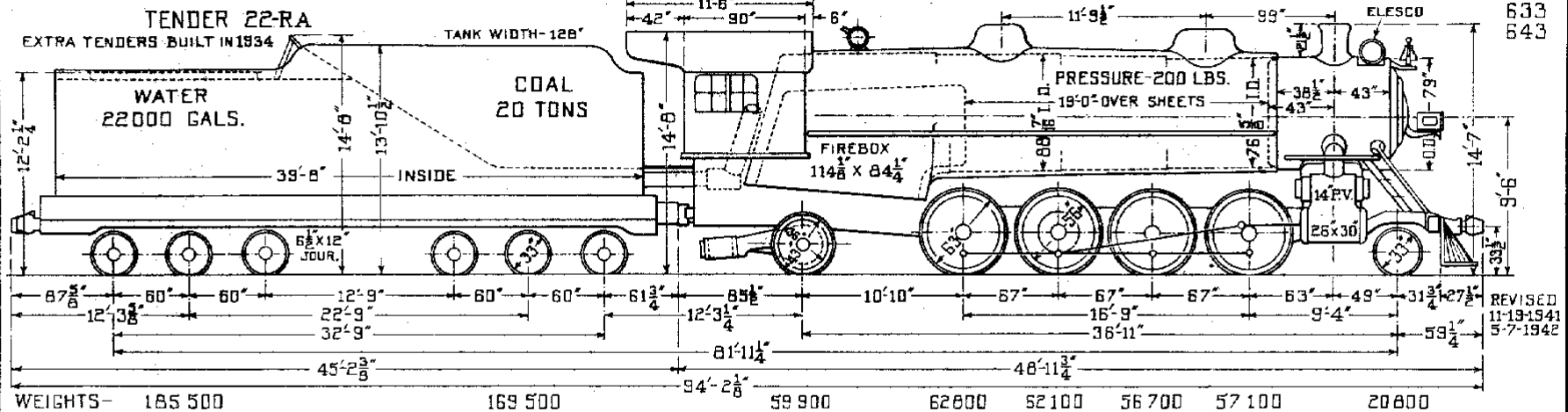
NO. OF ENGINES - 2  
SEE ALSO OTHER PAGES OF '33

N. K. P.

CLASS H-6E  
ENGINES DESIGNED FOR 15° CURVE

33-A

ENGS.  
633  
643



WEIGHTS IN WORKING ORDER	
ON DRIVERS	238 700 LBS.
ON ENGINE TRUCK	20 800 LBS.
ON TRAILING TRUCK	59 900 LBS.
ENGINE TOTAL	319 400 LBS.
TENDER	355 000 LBS.
ENG. & TENDER	674 400 LBS.
TUBES, NO. - 213 - 2 1/2" O.D.	
FLUES, NO. - 40 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	114 7/8"
" WIDTH	84 1/4"
" HEATING SURFACE	34 611 SQ. FT.
TUBES & FLUES	34 611 SQ. FT.
FIREBOX AND ARCH TUBES	263 SQ. FT.
SYPHONS	50 FT.
TOTAL HEATING SURFACE	3744.1 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS-DRIVING MAIN	11" X 13"
" " OTHERS	13" X 13"
" ENG. TRUCK	8 1/2" X 12"
" TRAILER	9" X 14"
VALVE DATA	
TRAVEL	8 3/4" - LAP 1 1/4"
LEAD	3/16" - EXN. CL. L. & L.

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.36
CYLINDER HORSE POWER	2434
PERCENT BOILER TO CYL. H.P.	54.7

SUPERHEATER-TYPE	A
F.W. HEATER	ELESCO
BOOSTER	DUPLEX-D2
BOOSTER	YES
REVERSE GEAR	PRECISION
BLDGS. ORDER NO. 1048	
SHLDR - LIMA LOCO WORKS	
YEAR BUILT - DEC-1923	

A-53

TRACTIVE POWER-54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER-64100 LBS. WITH BOOSTER  
 NOTE-TENDER 11-RB AS ON PAGE 34-B IS ON ENG. 652  
 JUNE-1942  
**TENDER 22-RA**  
 EXTRA TENDERS BUILT IN 1934

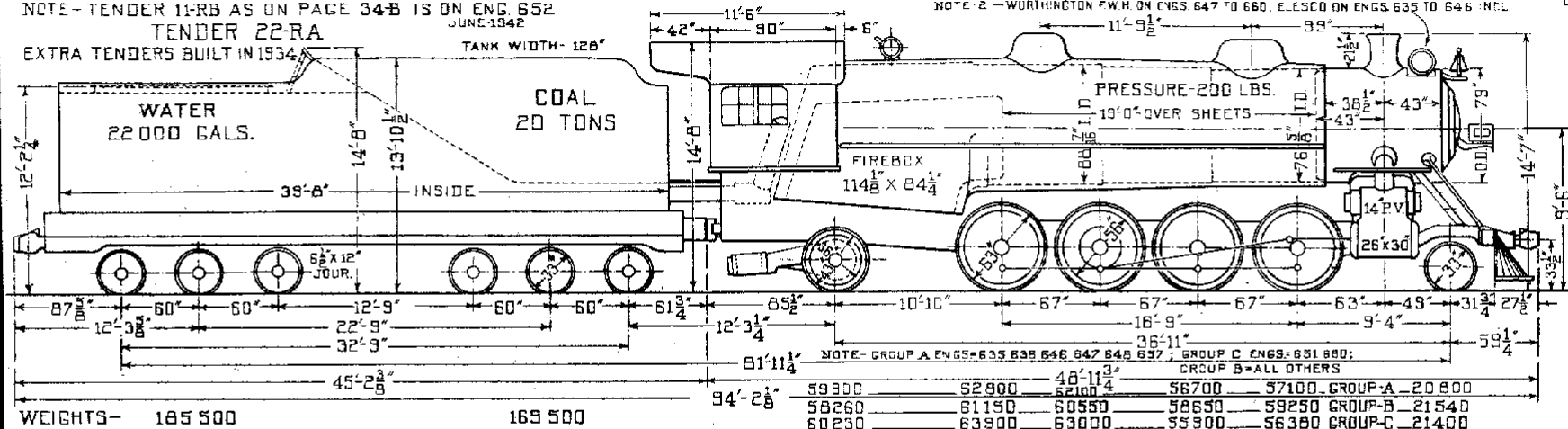
NO. OF ENGINES - 20  
 SEE ALSO OTHER PAGES OF 33

**N. K.P. CLASS H-6E**

33-C

ENGINES DESIGNED FOR 19° D CURVE

NOTE-2 - WORTHINGTON F.W.H. ON ENGS. 647 TO 660. E. LESCO ON ENGS. 635 TO 646 INCL.



**WEIGHTS IN WORKING ORDER**

ON DRIVERS — SEE TABLE — LBS.  
 ON ENGINE TRUCK — SEE INDIVIDUAL WEIGHTS  
 ON TRAILING TRUCK — SEE TABLE — LBS.  
 ENGINE TOTAL — 355 000 LBS.  
 TENDER — 674 400 LBS.  
 ENG. & TENDER — 1 029 400 LBS.  
 TUBES, NO. — 213 — 2 1/4" O.D. GROUP-B WTS.  
 FLUES, NO. — 40 — 5 1/2" O.D.  
 TUBES & FLUES, LENGTH — 19'-0"  
 ARCH TUBES, NO. 4 — O.D. 3" NOTE-1

**FIREBOX LENGTH** — 114 1/8"  
**WIDTH** — 84 1/4"  
**HEATING SURFACE** —  
 TUBES & FLUES — 3461.1 SQ. FT.  
 FIREBOX AND ARCH TUBES — 283 SQ. FT.  
 SYPHONS ON ENGS. 651, 660.  
 SYPHONS — SEE NOTE-1  
 TOTAL HEATING SURFACE — 3744.1 SQ. FT.  
 SUPERHEATER H.S. — 882 SQ. FT.  
 GRATE AREA — 56.7 SQ. FT.

**JOURNALS - DRIVING MAIN** — 11" x 13"  
 " " OTHERS — 10" x 13"  
 " " ENG. TRUCK — 6 1/2" x 12"  
 " " TRAILER — 5" x 14"

**VALVE DATA**  
 TRAVEL 3/4" — LAP 1 1/4"  
 LEAD 3/16" — EXH. CL. L & L

GROUP	TRUCKS	DRIVERS	WT. TOTAL ENGS. & TENDER
A	128700	319400	874400
B	248800	319400	874400
C	228100	320800	874600

**FACTOR OF ADHESION**  
 ENGS. GROUP A — 4.36  
 ENGS. GROUP B — 4.36  
 ENGS. GROUP C — 4.37

**CYLINDER HORSE POWER** — 2434  
**PERCENT BOILER TO CYL. H.P.** — 94.7  
 SEE NOTE-1

**TENDER FRAME**  
**TENDER TRUCK FRAME**  
 " " BOLSTER

**SUPERHEATER - TYPE** — A  
**F.W. HEATER** — SEE NOTE 2-ABOVE  
**STOKER** — DUPLEX - D2  
**BOOSTER** — YES [A.T.]  
**REVERSE GEAR** — PRECISION [SYP. &]  
 NOTE-1: ENGS. WITH SYPHONS - H. SURF. 7.20 X 341 SQ. FT. TOTAL HTE. SURF. = 3662.130 SQ. FT.  
 PERCENT BOILER TO CYL. H.P. POWER = 100.3  
 5 1/2" O.D. 4" G.W.  
**BLDRS. ORDER NO.** — 1048  
**BUILDER** — LIMA LOCO. WORKS  
**YEAR BUILT** — DEC-1923

ENGS.

635
636
637
639
640
641
642
644
647
648
651
653
654
656
658
660



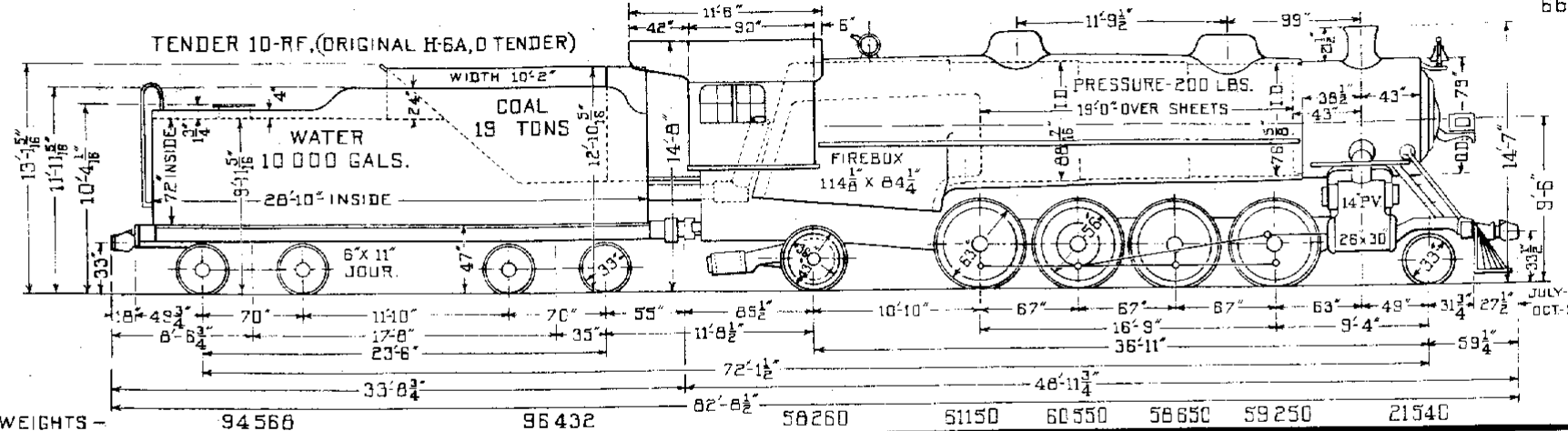
TRACTIVE POWER 54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER 64100 LBS. WITH BOOSTER

NO. OF ENGINES - 1  
 SEE ALSO OTHER PAGES OF 33

**N. K. P.**

**CLASS H-6E**  
 ENGINES DESIGNED FOR 19° D° CURVE

**33-D**  
 ENGS.  
 661



WEIGHTS - 94566 96432 82' 8 1/2" 58260 51150 60550 58650 59250 21540

WEIGHTS IN WORKING ORDER

ON DRIVERS	239 500 LBS.
ON ENGINE TRUCK	21 540 LBS.
ON TRAILING TRUCK	58 260 LBS.
ENGINE TOTAL	319 400 LBS.
TENDER	191 000 LBS.
ENG. & TENDER	510 400 LBS.
TUBES, NO. 213	2 1/4" D.D.
FLUES, NO. 40	5 1/2" D.D.
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
HEATING SURFACES	
TUBES & FLUES	34611 SQ. FT.
FIREBOX AND ARCH TUBES	263 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	37441 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	56.7 SQ. FT.

JOURNALS DRIVING MAIN	11" x 13"
" OTHERS	10" x 13"
ENG. TRUCK	6 1/2" x 12"
TRAILER	9" x 14"
VALVE DATA	
TRAVEL	3 1/4"
LEAD	3/16"
VALVE GEAR	LAP 1/4"
EXH. CL L & L	BAKER
PERCENT BOILER TO CYL. H. P.	4.38
HORSE POWER	2434
PERCENT BOILER TO CYL. H. P.	54.7

SUPERHEATER-TYPE	A
F. W. HEATER	WORTHINGTON
STOKER	DUPLEX - D2
BOOSTER	YES
REVERSE GEAR	PRECISION

BUILDER'S ORDER NO. 1048  
 BUILDER LIMA LOCO. WORKS  
 YEAR BUILT DEC. 1923

JULY-1942  
 OCT-1942

33-D

TRACTIVE POWER - 54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER - 64100 LBS. WITH BOOSTER

NO. OF ENGINES - 1  
 SEE ALSO OTHER PAGES OF 34

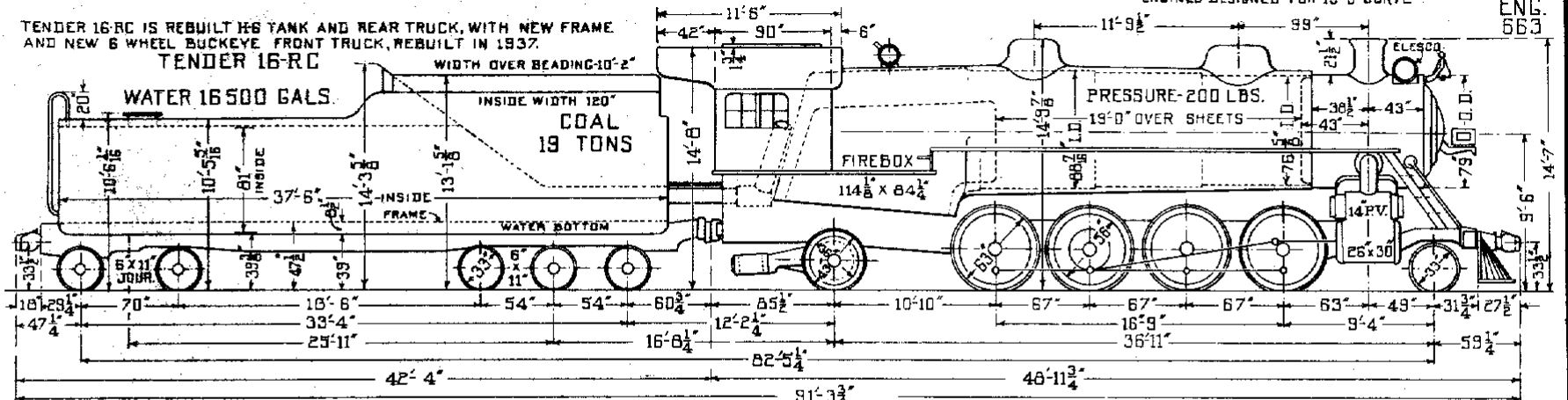
**N. K. P.** CLASS **H-6F**  
 ENGINES DESIGNED FOR 19°-0' CURVE

34

ENG.  
663

TENDER 16-RC IS REBUILT TANK AND REAR TRUCK, WITH NEW FRAME AND NEW 6 WHEEL BUCKEYE FRONT TRUCK, REBUILT IN 1937.

TENDER 16-RC



WEIGHTS - 108766

160087

91'3 3/4"  
59400

62310

61560

57030

57600

21000

OCT-1942

WEIGHTS IN WORKING ORDER  
 ON DRIVERS 236500 LBS.  
 ON TRAILING TRUCK 59400 LBS.  
 ENGINE TOTAL 316800 LBS.  
 TENDER 286853 LBS.  
 ENG. & TENDER 585753 LBS.  
 TUBES, NO. - 213 - 2 1/2" O.D.  
 FLUES, NO. - 40 - 5 1/2" O.D.  
 TUBES & FLUES, LENGTH 19'-0"  
 ARCH TUBES, NO. & - 9-D. 3"

FIREBOX LENGTH 114 1/8"  
 " WIDTH 84 1/2"  
 " HEATING SURFACE  
 TUBES & FLUES 3461.1 SQ. FT.  
 FIREBOX AND ARCH TUBES 283 SQ. FT.  
 SYPHONS SQ. FT.  
 TOTAL HEATING SURFACE 3744.1 SQ. FT.  
 SUPERHEATER H.S. 882 SQ. FT.  
 GRATE AREA 86.7 SQ. FT.

JOURNALS - DRIVING WHEEL 11" x 13"  
 " OTHERS 10" x 13"  
 " ENG. TRUCK 6 1/2" x 12"  
 " TRAILER 9" x 14"  
 VALVE DATA  
 TRAVEL 8 3/4" LAP 1 1/4"  
 LEAD 3/16" EXH. CL. 1/16"

VALVE GEAR BAKER  
 FACTOR OF ADHESION 4.35  
 CYLINDER HORSE POWER 2434  
 PERCENT BOLLEN TO CYL. H.P. 94.7

SUPERHEATER - TYPE A  
 F.W. HEATER ELESKO  
 STOKER DUPLEX - D2  
 BOOSTER YES  
 REVERSE GEAR PRECISION

BLDG. ORDER NO. 1066  
 BUILDER LIMA LOCO. WORKS  
 YEAR BUILT JUNE-1924

TRACTIVE POWER=54700 LBS. WITHOUT BOOSTER  
 TRACTIVE POWER=64100 LBS. WITH BOOSTER

NO. OF ENGINES - 3  
 SEE ALSO OTHER PAGES OF 34

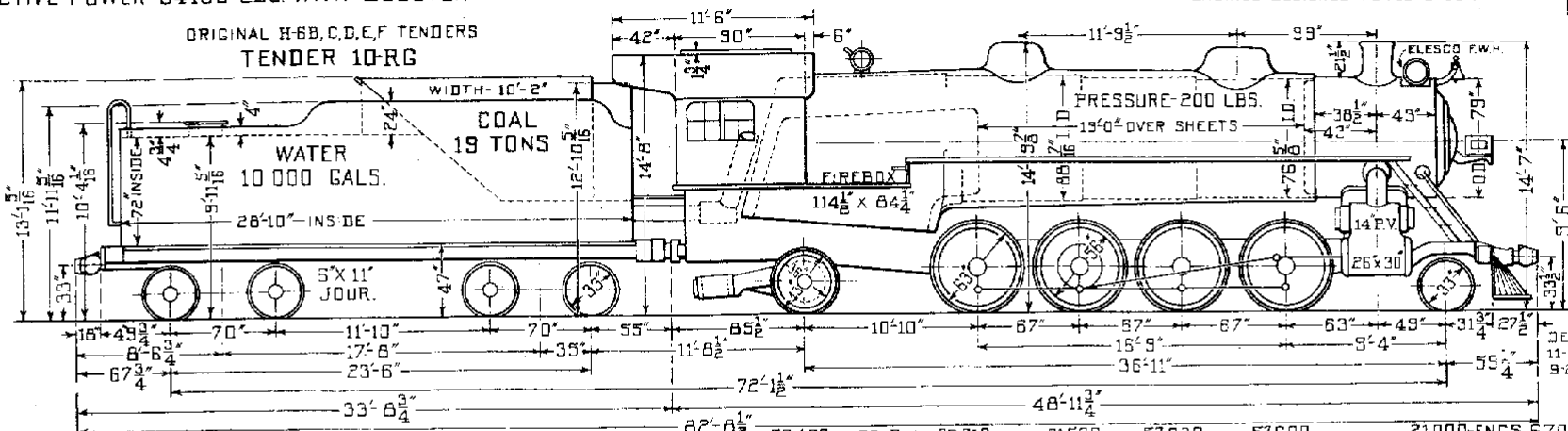
N. K.P.

CLASS H-6F  
 ENGINES DESIGNED FOR 19° 0' CURVE

34-A

ENG.  
 670  
 671  
 662

ORIGINAL H-BB, C, D, E, F TENDERS  
 TENDER 10-RG



WEIGHTS - 94568

96432

59400	GROUP-A	62300	51560	57030	57600	21000-ENGS. 670, 671
58150	GROUP-B	61050	60480	58540	59160	21520-ENG. 662

WEIGHTS IN WORKING ORDER  
 ON DRIVERS - SEE TABLE - LBS.  
 ON ENGINE TRUCK - SEE INDIVIDUAL WEIGHTS  
 ON TRAILING TRUCK - "  
 ENGINE TOTAL - 18,000 LBS.  
 TENDER - 19,000 LBS.  
 ENG. & TENDER - SEE TABLE - LBS.  
 TUBES, NO. 213 - 2 1/4" O.D.  
 FLUES, NO. 40 - 5 1/2" O.D.  
 TUBES & FLUES, LENGTH - 18' 0"  
 ARCH TUBES, NO. 4 - 0' 3"

FIREBOX LENGTH - 114 7/8"  
 WIDTH - 8 3/4"  
 HEATING SURFACE  
 TUBES & FLUES - 34611 SQ. FT.  
 FIREBOX AND ARCH TUBES - 283 SQ. FT.  
 SYPHONS - 50 FT.  
 TOTAL HEATING SURFAC. - 37441 SQ. FT.  
 SUPERHEATER H.S. - 862 SQ. FT.  
 GRATE AREA - 66.7 SQ. FT.

JOURNALS-DRIVING MAIN - 11" x 13"  
 " OTHERS - 10" x 13"  
 " ENG. TRUCK - 6 1/2" x 12"  
 " TRAILER - 9" x 14"  
 VALVE DATA  
 TRAVEL 8 3/4" LAP 1 1/4"  
 LEAD 3/16" EXH. CL. 1/16"  

GROUP	WT. ON DRIVERS	WT. TOTAL ENG.	ENG. & TENDER
A	238500	318900	589900
B	233230	318900	589900

FAC. OF ADHESION - GROUP-A - 4.36  
 FAC. OF ADHESION - GROUP-B - 4.37  
 VALVE GEAR - BAKER  
 CYLINDER HORSE POWER - 2434  
 PERCENT BOILER TO CYL. H.P. - 94.7

SUPERHEATER TYPE - A  
 F.W. HEATER - ELESOCO  
 STOKER - STANDARD  
 BOOSTER - YES  
 REVERSE GEAR - PRECISION

BLDRS. ORDER NO. - 1066  
 BUILDER - LIMA LOCO. WORKS  
 YEAR BUILT - JUNE-1924

A-43

DEC-1937  
 11-8-1940  
 9-23-1942

TRACTIVE POWER = 54700 LBS. WITHOUT BOOSTER  
TRACTIVE POWER = 64100 LBS. WITH BOOSTER

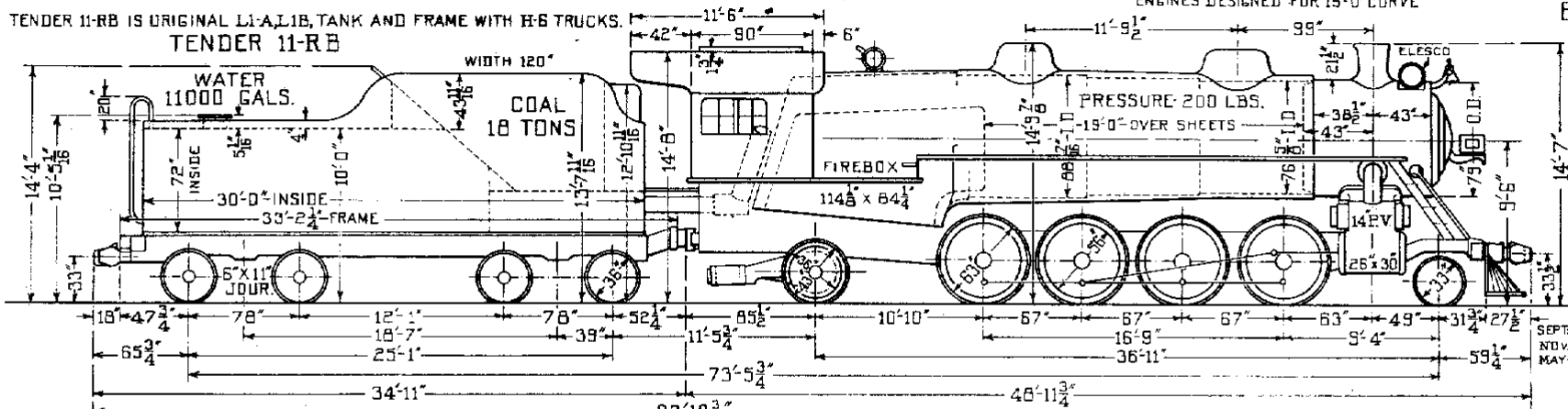
NO. OF ENGINES - 2  
SEE ALSO OTHER PAGES OF 34

**N. K. P. CLASS H-6F**  
ENGINES DESIGNED FOR 15° O' CURVE

**(34B)**

ENGS.  
667  
668

TENDER 11-RB IS ORIGINAL L1-A, L1B, TANK AND FRAME WITH H-6 TRUCKS.  
TENDER 11-RB



WEIGHTS- 101700 110400 8340 59400 62310 61560 57030 57600 21000 ENG. 667  
58150 61030 60480 58540 59160 21520 ENG. 668

SEPT-4-1937  
NOV-8-1940  
MAY-7-1942

WEIGHTS IN WORKING ORDER  
ON DRIVERS SEE TABLE - LBS.  
ON ENGINE TRUCK - SEE INDIVIDUAL WEIGHTS  
ON TRAILING TRUCK " " "  
ENGINE TOTAL SEE TABLE  
TENDER 212 100 LBS.  
CHG. & TENDER SEE TABLE  
TUBE O.D. - 213 - 2 1/4" O.D.  
FLUE O.D. - 40 - 3 1/2" O.D.  
TUBES & FLUES LENGTH 19'-0"  
ARCH TUBES, NO. 4 - 0.0.3"

FIREBOX LENGTH 114 7/8"  
" WIDTH 64 1/4"  
" HEATING SURFACE 34611 SQ. FT.  
TUBES & FLUES 34611 SQ. FT.  
FIREBOX AND ARCH TUBES 283 SQ. FT.  
SYPHONS 50. FT.  
TOTAL HEATING SURFACE 3744.150. FT.  
SUPERHEATER H.S. 882 SQ. FT.  
GRATE AREA 65.7 SQ. FT.

JOURNALS - DRIVING MAIN 11" X 13"  
" OTHERS 10" X 13"  
" ENG. TRUCK 6 1/2" X 12"  
" TRAILER 9" X 14"

VALVE DATA  
TRAVEL 8 3/4" - LAP 1 1/4"  
LEAD 3/16" EXH. CL. 1/16"  
ENG. WITH DRIVERS WT. TOTAL ENG. ENGS. TENDER  
667 238500 318300 231000  
668 239230 318300 231000

FACTOR OF ADHESION  
ENG. 667-4.36 ENG. 668-4.37  
VALVE GEAR BAKER  
CYLINDER HORSE POWER 2434  
PERCENT BOILER TO CYL. H.P. 94.7

TENDER FRAME  
TENDER TRUCK FRAME  
" " BOLSTER

SUPERHEATER TYPE A  
F.W. HEATER ELESKO  
STOKER STANDARD  
BOOSTER YES  
REVERSE GEAR PRECISION

BLDRS. ORDER NO. 1066  
BUILDER LIMA LOCC. WORKS  
YEAR BUILT JUNE-1924

R-55

6



TRACTIVE POWER - 54700 LBS.

22 RA NO. OF ENGINES - 14

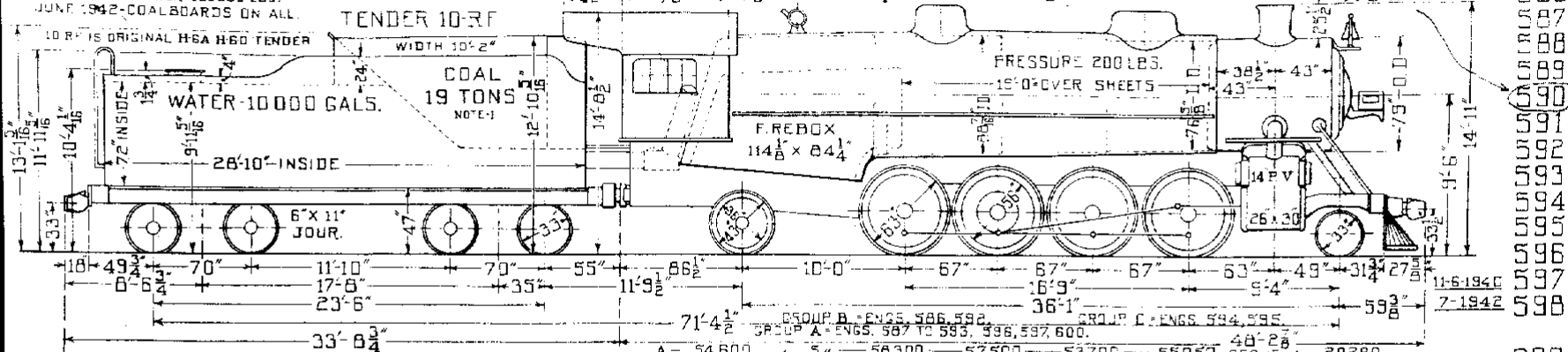
N.K.P.

CLASS H-60

35

NOTE-1 - TENDERS WITH COAL BOARDS - ENGS. 586, 592, 596, 597, 598, 599, 600 HAVE COPY OF 16.0 TONS, WT. FRONT END-96432 LBS, REAR-94568 LBS. TOTAL WT. OF TENDER-191000 LBS. JUNE 1942-COALBOARDS ON ALL.

NOTE-2 - SEE ALSO OTHER PAGES OF THIS TENDER DATA ON PAGE 33 ON ENGS. 592, 1030 AND ON PAGE 34 A. S. ON ENGS. 592, ENGINES DESIGNED FOR 13° 0' CURVE  
10-6 35-A 100 12 3 93



WEIGHTS - 94568

SEE NOTE-1

96432

GROUP B - ENGS. 586, 592		GROUP C - ENGS. 594, 596	
GROUP A - ENGS. 587 TO 593, 595, 597, 600			
A - 54600	B - 52900	C - 53200	600
81-118	56300	57500	53700
	56470	56000	58000
	58680	56200	56400
			55050
			55120
			59120
			660
			20280
			21600
			21080

WEIGHTS IN WORKING ORDER - ON DRIVERS - SEE TABLE - LBS. ON ENGINE TRUCK - SEE INDIVIDUAL WEIGHTS ON TRAILING TRUCK - " ENGINE TOTAL - SEE TABLE - LBS. TENDER - SEE NOTE-1 - 191000 LBS. ENGS. TENDER - SEE TABLE - LBS. TUBES & FLUES - 213 - 2 1/2" O.D. F. H.S. AG - 40 - 5 1/2" D.D. TUBES & FLUES LENGTH - 19'-0" ARCH TUBES, NO. 4 - O.D. 3"

FIREBOX LENGTH - 114 1/8" WIDTH - 84 1/4" HEATING SURFACE - TUBES & FLUES - 3461.1 SQ. FT. FIREBOX - 283 SQ. FT. SYPHONS - SQ. FT. TOTAL HEATING SURFACE - 3744.1 SQ. FT. SUPERHEATER H.S. - 862 SQ. FT. GRATE AREA - 65.7 SQ. FT.

JOURNALS - DRIVING MAIN - 1 1/2 x 13" OTHERS - 1 1/4 x 13" ENG. TRUCK - 6 1/2 x 12" TRAILER - 5 x 14" VALVE DATA TRAVEL 6 1/2" LAP 1" LEAD 3/6" EXH. CL. L.A.L. GROUP WT. ON DRIVERS WT. TOTAL ENG. TENDER

FACTOR OF ADHESION GROUP A=4.10, B=4.19, GROUP C=4.14 VALVE GEAR - WALSCHAERT CYLINDER HORSE POWER - 2434 PERCENT BOILER TO CYL. N.P. - 94.7

SUPERHEATER TYPE - A F.W. HEATER WORTH TYPE-S ON 586, 598. STOKER - DUPLEX-D1 BOOSTER REVERSE GEAR - PRECISION BLDG. ORDER - BALDWIN LOCO. WKS. BUILDER - 1916

ENGS.

586
587
588
589
590
591
592
593
594
595
596
597
598

TRACTIVE POWER 54700 LBS.

NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 35

N. K. P.

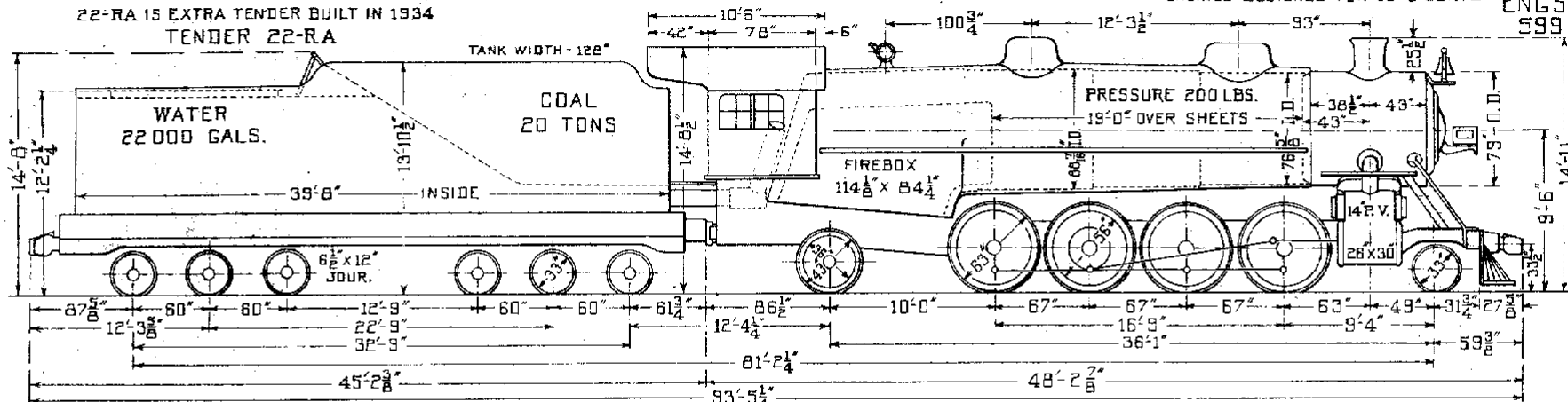
CLASS H-6-0

35-A

ENGINES DESIGNED FOR 19°-0' CURVE

ENGS.  
599

22-RA 15 EXTRA TENDER BUILT IN 1934  
TENDER 22-RA



WEIGHTS - 185 500

169 500

54 600

56 300

57 500

53 700

55 050

20280

JULY-1942

WEIGHTS IN WORKING ORDER	
ON DRIVERS	224 550 LBS.
ON ENGINE TRUCK	20280 LBS.
ON TRAILING TRUCK	54600 LBS.
ENGINE TOTAL	239 430 LBS.
TENDER	654 430 LBS.
ENG. & TENDER	893 860 LBS.
TUBES, NO. 213	2 1/4" O.D.
FLUES, NO. 40	5 1/2" O.D.
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	114 1/8"
" WIDTH	84 1/4"
" HEATING SURFACES	
TUBES & FLUES	34611 SQ. FT.
FIREBOX AND ARCH TUBES	283 SQ. FT.
SYPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	37441 SQ. FT.
SUPERHEATER H.S.	882 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS DRIVING MAIN	11x13"
" OTHERS	10x13"
" ENG. TRUCK	5x14"
" TRAILER	5 1/2 x 12"
TRAVEL	6 1/2"
LEAD	3 1/8"
VALVE GEAR	LAP 1"
EXH. CL.	L & L
WALSCHAERT	
FACTOR OF ADHESION	4.10
NET HORSE POWER	2434
PERCENT BOILER TO CYL. H. P.	54.7

SUPERHEATER-TYPE \_\_\_\_\_ A  
F. W. HEATER \_\_\_\_\_  
STOKER \_\_\_\_\_ DUPLEX-DI  
BOOSTER \_\_\_\_\_  
REVERSE GEAR \_\_\_\_\_ PRECISION

Bldr's. ORDER NO. \_\_\_\_\_  
BUILDER BALDWIN LOCO. WORKS  
YEAR BUILT 1918

A-25

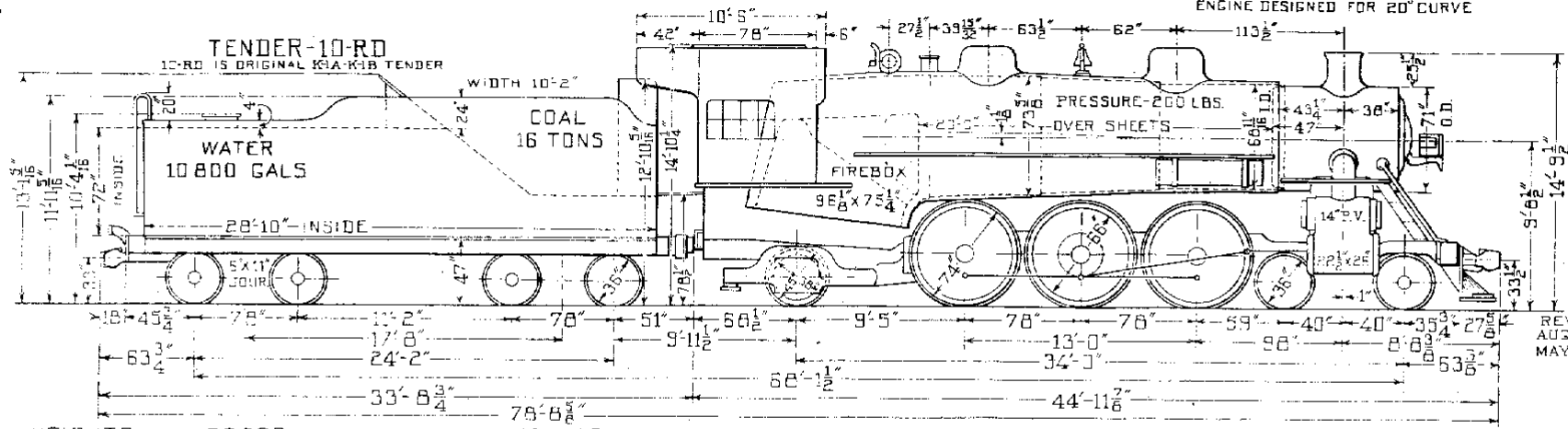
TRACTION POWER - 30 200 LBS.

NO. OF ENGINES - 4

N. K.P. CLASS K-1A

36

ENGINE DESIGNED FOR 20° CURVE



ENGS.  
160  
161  
162  
163

REVISED  
AUG-1942  
MAY-1944

WEIGHTS - 95 300 105 600 41 900 53 400 53 100 53 400 22 275 22 275

WEIGHTS IN WORKING ORDER	
ON DRIVERS	159 900 LB.
ON ENGINE TRUCK	44 800 LB.
ON TRAILING TRUCK	41 900 LB.
ENGINE TOTAL	246 600 LB.
TENDER	208 700 LB.
ENG. & TENDER	448 250 LB.
TUBES, NO.	185
FLUES, NO.	37
TUBES & FLUES	222
ANCHOR	2

FIREBOX LENGTH	95 7/8"
" WIDTH	75 1/4"
" HEATING SURFACE	75 1/4"
TUBES & FLUES	2824 SQ. FT.
FIREBOX	50 SQ. FT.
ARCH TUBES	239 SQ. FT.
SYMPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	3053 SQ. FT.
SUPERHEATER H.P.	768
GRATE AREA	53.23 SQ. FT.

JOURNALS-DRIVING MAIN	13" x 13"
" OTHERS	13" x 13"
ENG. TRUCK	8 1/2" x 12"
TRAILER	8" x 14"
VALVE DATA	
TRAVEL	7" LAP 1"
LEAD	1/4" EXH. CL. 3/16"

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.41
CYLINDER HORSE POWER	1822
PERCENT BOILER TO CYL. H.P.	95.3

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	PRECISION
SYMPHONS ON ALL	
EXH. ST. INJECTOR ON 160	
BLOPS. ORDER NO.	1034
BUILDER	LIMA LUCO WORKS
YEAR BUILT	DEC-1922



TRACTIVE POWER - 30 200 LBS.

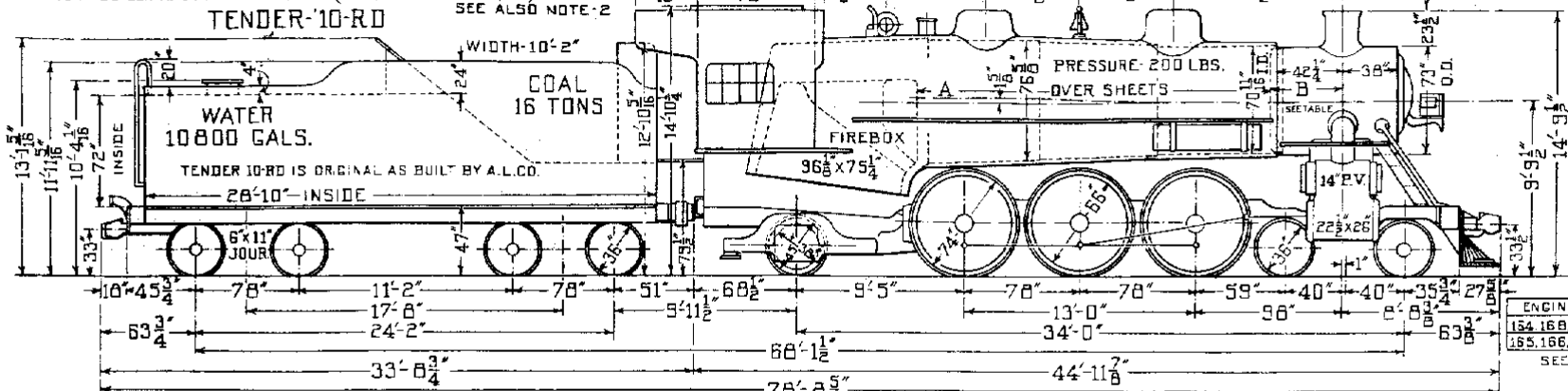
NO. OF ENGINES - 6

N. K. P. CLASS K-1B

37

NOTE-1: ENGS. 164, 165, 169-HAVE TYPE 'E' HEADER, 132-3/8" O.D. FLUES, HTG. SURF = 2349 SQ. FT.  
 44-24" O.D. TUBES, HTG. SURF = 303 SQ. FT. - TOTAL H. SURF = 2652 SQ. FT.  
 HTG. SURF. OF SUPERHEATER = 1350 SQ. FT. - TUBES AND FLUES LENGTH 19'6"  
 PERCENT BOILER TO CYL. H.P. = 103.4 (107.4 FOR ENGS. 165, 167)

ENGINE DESIGNED FOR 20° CURVE



ENGS.  
 164  
 165  
 166  
 167  
 168  
 169

WEIGHTS- 96 300 106 600 48 970 52 480 52 290 52 480 24 050 24 050

ENGINES	A	B
164	169	153
165	167	147
166	167	147
167	167	147
168	167	147
169	167	147

SEE NOTE-1

WEIGHTS IN WORKING ORDER  
 ON DRIVERS 157 250 LBS.  
 ON ENGINE TRUCK 48 100 LBS.  
 ON TRAILING TRUCK 48 970 LBS.  
 ENGINE TOTAL 254 320 LBS.  
 TENDER 202 900 LBS.  
 ENG. & TENDER 457 220 LBS.  
 TUBES, NO. - 206 - 2" O.D. - SEE NOTE-1-2  
 FLUES, NO. - 32 - 5 1/2" O.D. - SEE NOTE-1-2  
 TUBES & FLUES, LENGTH 20'0" - NOTE-1-2  
 ARCH TUBES, NO. 2 - O.D. 3"

FIREBOX LENGTH 96 1/2"  
 " WIDTH 75 1/2"  
 " HEATING SURFACE 3063 SQ. FT.  
 TUBES & FLUES - NOTE-1 - 3063 SQ. FT.  
 FIREBOX - NOTE-2 250 SQ. FT.  
 ARCH TUBES TOTAL 250 SQ. FT.  
 SYPHONS 768 SQ. FT.  
 TOTAL HEATING SURFACE 3313 SQ. FT.  
 SUPERHEATER H.S. 768 SQ. FT.  
 GRATE AREA 50.23 SQ. FT.

JOURNALS - DRIVING MAIN 10" x 13"  
 " " OTHERS 10" x 13"  
 " " ENG. TRUCK 8 1/2" x 12"  
 " " TRAILER 8" x 14"  
 VALVE DATA  
 TRAVEL 7" LAP 1"  
 LEAD 1/4" EXH. CL. 3/16"

VALVE GEAR - WALSCHAERT  
 FACTOR OF ADHESION 5.20  
 CYLINDER HORSE POWER 1822  
 PERCENT BOILER TO CYL. H.P. - SEE NOTE-1 AND NOTE-2

SUPERHEATER - TYPE - A OR E - NOTE-1  
 P.W. HEATER - EXH. ST. INJ. ON ENG. 164  
 STOKER  
 BOOSTER  
 REVERSE GEAR - PRECISION  
 NOTE 2: ENGS. 165 HAS 197-2 1/2" TUBES, 30-5 1/2"  
 FLUES, HTG. SURF. = 3150 SQ. FT.; FIREBOX TOTAL  
 = 250 SQ. FT.; TOTAL = 3400 SQ. FT.; FAC. ADH. = 5.13  
 CYL. H.P. = 1822; PERCENT BOILER TO CYL. H.P. = 112.2  
 BLDRS. ORDER NO. - B-1608  
 BUILDER - A.L.C.D. - AT BROOKS WKS.  
 YEAR BUILT - SEPT. - 1923

37

TRACTION POWER 42000 LBS.

NO. OF ENGINES - 4  
SEE ALSO OTHER PAGES OF 38

N. K.P. CLASS L-1A

38

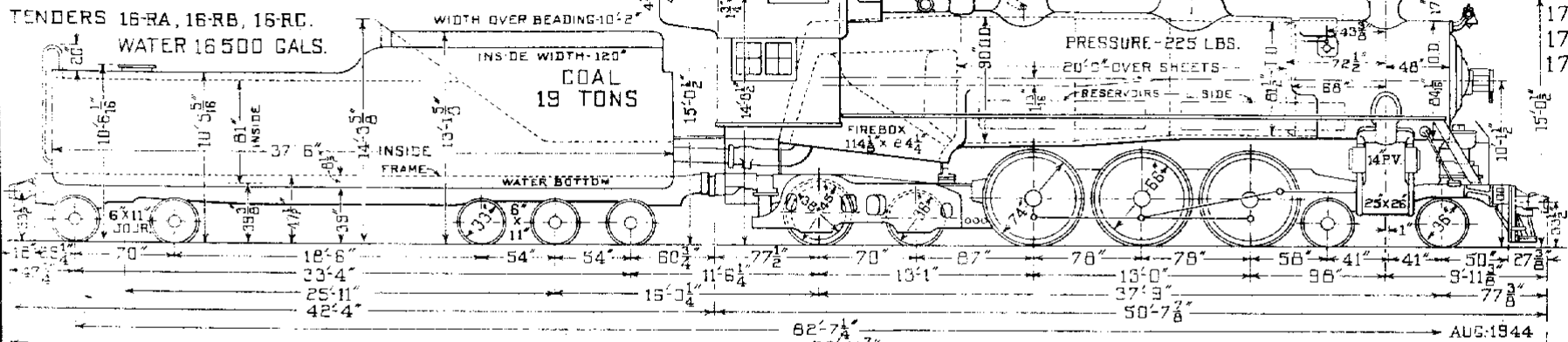
RESULT H'S TANK AND REAR TRUCK WITH NEW FRAME AND NEW 6 WHEEL  
FRONT TRUCK; BUCKEYS ON 16-RA-RC, AND 6 S.C. CORP. TRUCK ON 16-RB.

ENGINE DESIGNED FOR 18°30' CURVE

ENGS.

TENDERS 16-RA, 16-RB, 16-RC.  
WATER 16500 GALS.

WIDTH OVER BEADING 10'-2"



170  
171  
172  
173

WEIGHTS-106766 160087 51100 33700 58550 58700 58550 28900 28900

WEIGHTS IN WORKING ORDER

ON DRIVERS	175	LBS.
ON ENGINE TRUCK	8700	LBS.
ON TRAILING TRUCK	8400	LBS.
ENGINE TOTAL	31800	LBS.
TENDER	28800	LBS.
ENG. & TENDER	60600	LBS.
TUBES, NO. 2-4	2-4	O.D.
FLUES, NO. 2-4	2-4	O.D.
TUBES & FLUES, LENGTH	20'-0"	
ARCH TUBES, NO. 2	2	O.D. 3"

FIREBOX LENGTH	114 3/8"
" WIDTH	84 1/4"
TUBES & FLUES HEATING SURFACES	3917 SQ. FT.
FIREBOX	50 SQ. FT.
ARCH TUBES - TOTAL	302 SQ. FT.
SYPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	4219 SQ. FT.
SUPERHEATER H.S.	1055 SQ. FT.
GRATE AREA	56.7 SQ. FT.

JOURNALS DRIVING-MAIN	11 X 13"
" OTHER	10 X 13"
ENG. TRUCK	6 1/2 X 12"
TRAILER P. 5 X 11"	BACK 8 X 14"
VALVE DATA	
TRAVEL	8 1/2"
LAP	1 1/4"
EXM. CL.	3/16"
WALSCH	4-16"
FACTOR OF ADHESION	4.16
CYL. HORSE POWER	2529
PERCENT BOILER TO CYL. H. P.	18.16

SUPERHEATER-TYPE	A
F.W. HEATER	EXHAUST ST. REFLECTOR
STOKER	STANDARD
BCCSTER	NONE
REVERSE GEAR	PREC. 5 ON

BUILDER'S ORDER 9-6855  
 BUILDER ALCO - AT DUNKIRK  
 YEAR BUILT 1944

TRACTIVE POWER 40150 LBS.

NO. OF ENGINES- 4  
SEE ALSO OTHER PAGES OF 38

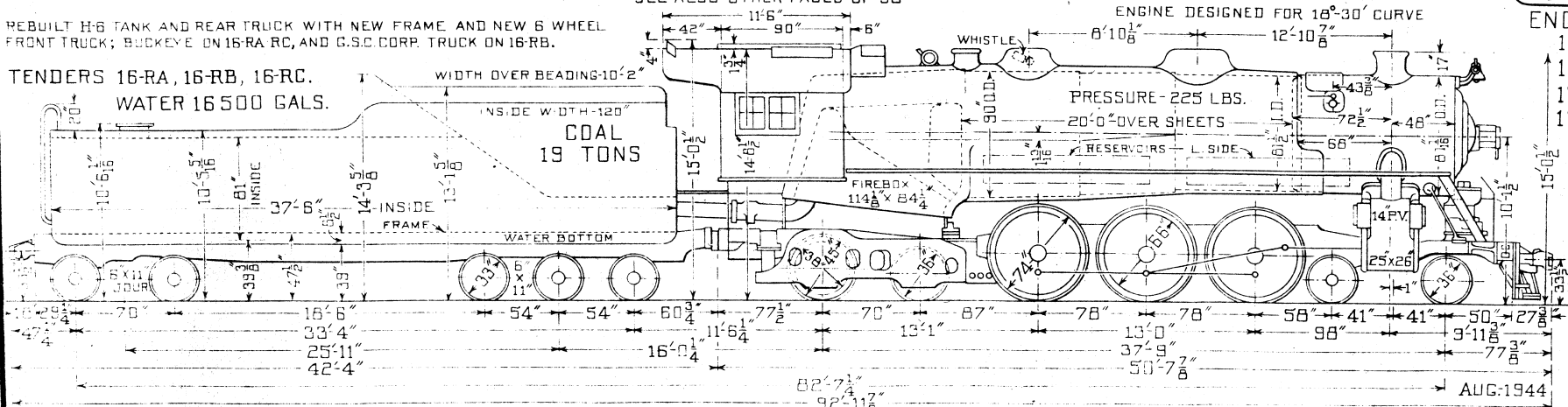
N. K.P. CLASS L-1B

38A

ENGS.  
174  
175  
176  
177

REBUILT H-6 TANK AND REAR TRUCK WITH NEW FRAME AND NEW 6 WHEEL FRONT TRUCK; BUCKEYE ON 16-RA, RC, AND G.S.C. CORP. TRUCK ON 16-RB.

TENDERS 16-RA, 16-RB, 16-RC.  
WATER 16500 GALS.  
COAL 19 TONS



WEIGHTS-106766

160 087

51160

33740

58620

58760

58620 27500

27500

WEIGHTS IN WORKING ORDER	
ON DRIVERS	17,000 LBS.
ON ENGINE TRUCK	28,000 LBS.
ON TRAILING TRUCK	28,000 LBS.
ENGINE TOTAL	73,000 LBS.
TENDER	33,766 LBS.
ENG. & TENDER	106,766 LBS.
TUBES, NO. 204	2 1/4" O.D.
FLUES, NO. 52	5 1/2" O.D.
TUBES & FLUES, LENGTH	20' 0"
ARCH TUBES, NO.	O.D.

FIREBOX LENGTH	
LENGTH	114 1/8"
WIDTH	84 1/4"
HEATING SURFACES	
TUBES & FLUES	5917 SQ. FT.
FIREBOX	50 SQ. FT.
ARCH TUBES TOTAL	302 SQ. FT.
ARCH TUBES	50 SQ. FT.
HEATING SURFACE	4219 SQ. FT.
SUPERHEATER H.S.	1755 SQ. FT.
GRATE AREA	66.7 SQ. FT.

JOURNALS DRIVING MAIN	
DRIVING MAIN	11 1/2" 13"
OTHERS	10 1/2" 13"
ENG. TRUCK	6 1/2" 12"
TRAILER E-6 X 11" BACK BOX	14"
VALVE DATA	
TRAVEL	8 1/2"
LAP	1/8"
EXH. CL.	1/16"
GEAR	WALSHART
COEFF. OF ADHESION	4.26
INDICATED HORSE POWER	2921
NET BOILER TO CYL. H.P.	1045

SUPERHEATER TYPE	A
S.W. HEATER	EXHAUST STEAM HEATER
DOOR	STANDARD
ROOSTER	NONE
REVERSE GEAR	WALSHART

BUILDER'S ORDER	111
BUILDER	LIMA Locomotive Works
YEAR BUILT	1944

AUG-1944

TRACTIVE POWER 40150 LBS.

NO. OF ENGINES-4  
SEE ALSO OTHER PAGES OF 38

N. K.P. CLASS L-1B

38A

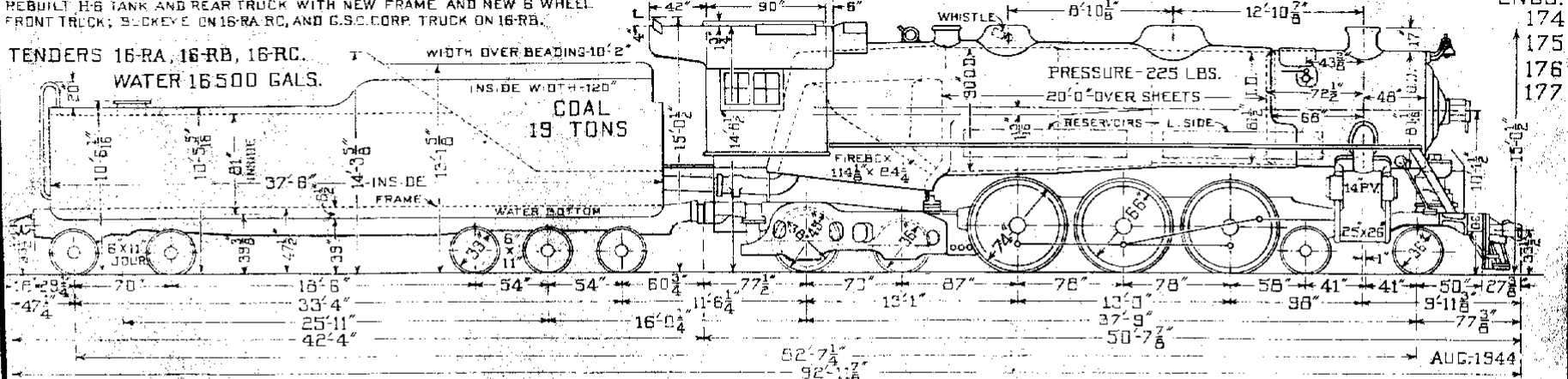
REBUILT H-6 TANK AND REAR TRUCK WITH NEW FRAME AND NEW 6 WHEEL FRONT TRUCK; SLOKEY ON 16-RA, RC, AND G.S.C.CORP. TRUCK ON 16-RB.

TENDERS 16-RA, 16-RB, 16-RC.  
WATER 16500 GALS.

WIDTH OVER BEADING 10'-2"  
INS. DE. WIDTH 120"  
COAL 19 TONS

ENGINE DESIGNED FOR 18°-30' CURVE

ENGS.  
174  
175  
176  
177



WEIGHTS-106768 160087 51160 33740 58620 58760 58620 27500 27500

<b>WEIGHTS IN WORKING ORDER</b> ON DRIVERS 17,000 LBS. ON ENGINE TRUCK 10,000 LBS. ON TRAILING TRUCK 10,000 LBS. ENGINE TOTAL 31,000 LBS. TENDER 25,000 LBS. ENG. & TENDER 56,000 LBS. TUBES, NO. 274 FLUES, NO. 48 TUBES & FLUES, LENGTH 20'-0" ARCH TUBES, NO. 0	<b>FIREBOX LENGTH</b> 114 1/8" <b>WIDTH</b> 24 1/2" <b>HEATING SURFACES</b> TUBES & FLUES 3917 SQ. FT. FIREBOX 302 SQ. FT. ARCH TUBES TOTAL 302 SQ. FT. TOTAL HEATING SURFACE 4219 SQ. FT. SUPERHEATER H.S. 1755 SQ. FT. GRATE AREA 65.7 SQ. FT.	<b>JOURNALS DRIVING-MAIN</b> 11 x 13" <b>OTHERS</b> 8 x 13" <b>TRAILER-F</b> 8 x 11 x 14" <b>TRAILER-R</b> 8 x 11 x 14" <b>TRAVEL</b> 8 1/2" <b>VALVE DATA</b> LAP 1 1/2" <b>GEAR</b> WALSHEART <b>COEFF. OF ADHESION</b> .436 <b>TRACTIVE POWER</b> 40,150 <b>PERCENT BOILER TO CYL. H. P.</b> 104.6	<b>SUPER-HEATER TYPE</b> A <b>W. HEATER</b> 1 <b>STANDARD</b> <b>BOOSTER</b> <b>REVERSE GEAR</b>	<b>BUILDER'S ORDER</b> <b>BUILDER</b> LIMA Locomotive Works <b>YEAR BUILT</b>
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TRACTION POWER-25 800 LBS.

NO. OF ENGINES - 1

**N. K. P.**

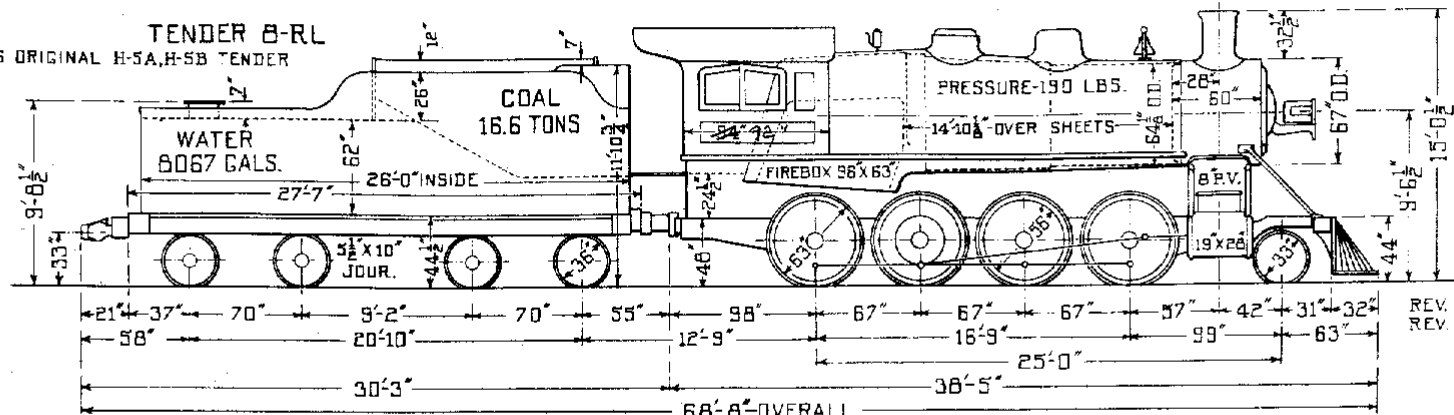
CLASS **N-3**

39

ENG.  
440

DESIGNED FOR 19° CURVE

TENDER B-RL  
B-RL IS ORIGINAL H-5A, H-5B TENDER



REV. 5-8-1942  
REV. 10-1-1942

**WEIGHTS-**

71300

90950

68'-8" OVERALL  
32880

34860

32280

46560

21300

WEIGHTS IN WORKING ORDER	
ON DRIVERS	146 600 LBS.
ON ENGINE TRUCK	21 300 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	167 900 LBS.
TENDER	162 250 LBS.
ENG. & TENDER	330 150 LBS.
TUBES, NO.-169	2" O.D.
FLUES, NO.-24	5 3/8" O.D.
TUBES & FLUES, LENGTH	14'-10 1/8"
ARCH TUBES, NO.-4	O.D. 3"

FIREBOX LENGTH	36"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1603 SQ. FT.
FIREBOX AND ARCH TUBES	171 SQ. FT.
SYPHONS	SQ. FT.
TOTAL HEATING SURFACE	1974 SQ. FT.
SUPERHEATER H.S.	412 SQ. FT.
GRATE AREA	40.9 SQ. FT.

JOURNALS-DRIVING MAIN	5" x 12"
" " OTHERS	5 1/2" x 12"
" " ENG. TRUCK	6" x 12"
VALVE DATA	
TRAVEL	6 1/2"
LEAD	1/4"
LAP	7/8"
EXH. CL.	1/8"

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.68
CYLINDER HORSE POWER	1235
PERCENT BOILER TO CYL. H.P.	110.0

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	FRANKLIN-E
BLDRS. ORDER NO.	
BUILDER	BALDWIN LOCO. WKS.
YEAR BUILT	AUG-1907

TRACTIVE POWER-23 800 LBS.

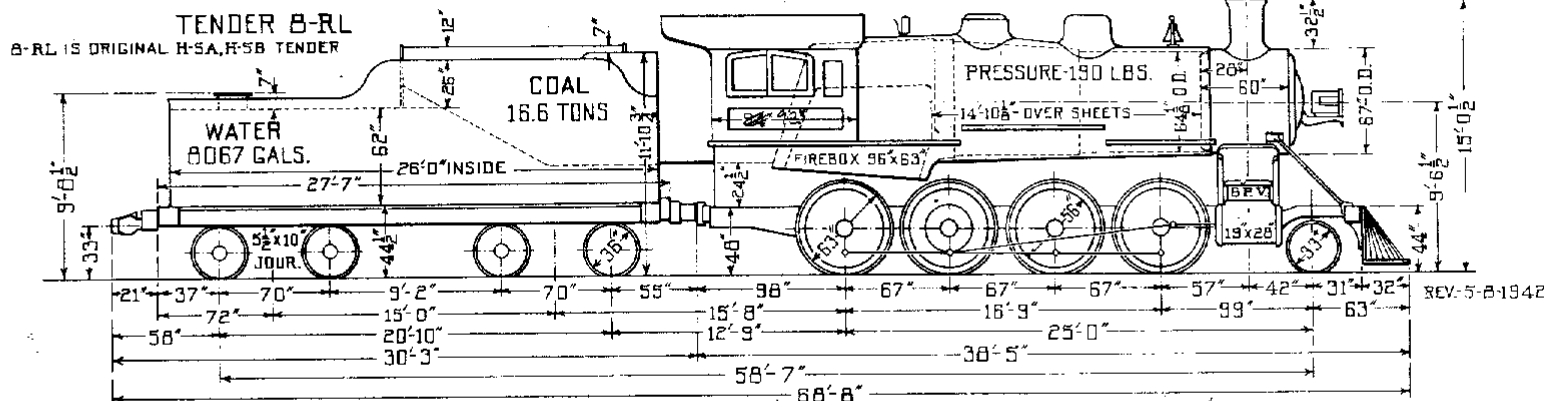
NO. OF ENGINES - 1

N. K. P. CLASS N-4

40

ENGINE DESIGNED FOR 19° 0' CURVE

ENG.  
446



WEIGHTS-

WEIGHTS IN WORKING ORDER	
ON DRIVERS	155 200 LBS.
ON ENGINE TRUCK	21 700 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	176 900 LBS.
TENDER	162 250 LBS.
ENG. & TENDER	339 150 LBS.
TUBES, NO. - 169	2" O.D.
FLUES, NO. - 24	5 1/8" O.D.
TUBES & FLUES, LENGTH	14'-10 1/8"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	96"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1803 SQ. FT.
FIREBOX AND ARCH TUBES	171 SQ. FT.
"	50. FT.
"	50. FT.
SYPHONS	
TOTAL HEATING SURFACE	1974 SQ. FT.
SUPERHEATER H.S.	412 SQ. FT.
GRATE AREA	40.9 SQ. FT.

JOURNALS-DRIVING MAIN	9" x 12"
" " OTHERS	8 1/2" x 12"
" ENG. TRUCK	6" x 12"
" TRAILER	
VALVE DATA	
TRAVEL	6" LAP 7/8"
LEAD	5/16" EXH. CL. 1/8"

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	6.01
CYLINDER HORSE POWER	1235
PERCENT BOILER TO OVL. H.P.	110.0

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	FRANKLIN-E
BLDRS. ORDER NO.	1164
BUILDER	A.L. CO. - BROOKS WKS.
YEAR BUILT	MAR. 1908

TRACTIVE POWER-25 800 LBS.

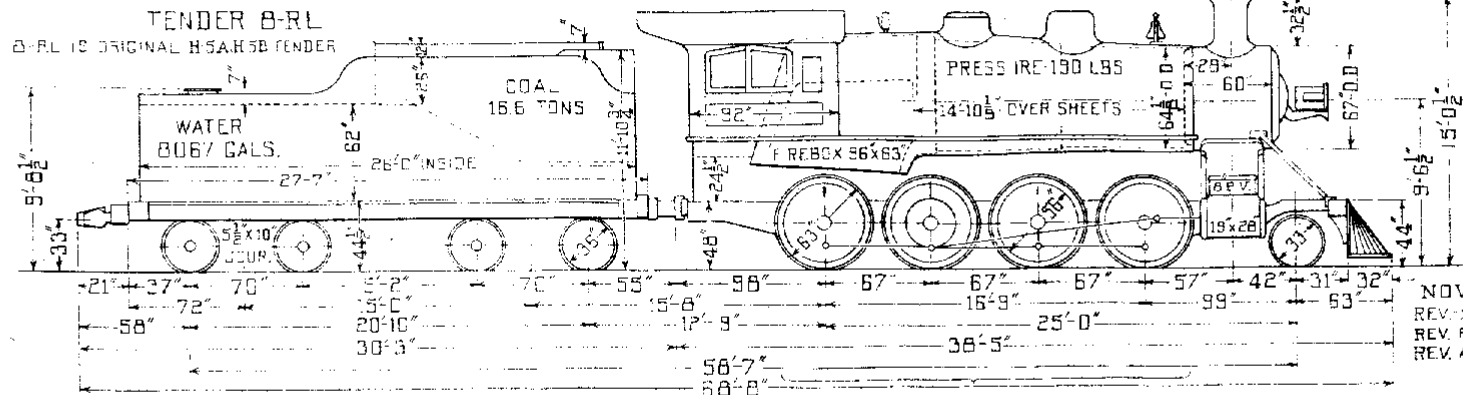
NO. OF ENGINES - 3

N. K. P. CLASS N-5

41

ENGINE DESIGNED FOR 15° CURVE

ENGS.  
449  
451  
452



NOV-1941  
REV. 5-8-1942  
REV. FEB-1944  
REV. AUG-1944

WEIGHTS- 71300 90950 159050 22850

WEIGHTS IN WORKING ORDER	
ON DRIVERS	159 050 LBS.
ON ENGINE TRUCK	22 850 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	181 900 LBS.
TENDER	162 250 LBS.
ENG. & TENDER	344 150 LBS.
TUBES, NO. -	163 - 2" O.D.
FLUES, NO. -	24 - 3 3/8 O.D.
TUBES & FLUES, LENGTH	14'-10 1/8"
ARCH TUBES, NO. 4	O.D. 3"

FIREBOX LENGTH	96"
" WIDTH	63"
HEATING SURFACE	
TUBES & FLUES	1803 SQ. FT.
FIREBOX AND ARCH TUBES	171 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	1974 SQ. FT.
SUPERHEATER H.S.	412 SQ. FT.
GRATE AREA	40 9 SQ. FT.

JOURNALS-DRIVING MAIN	3" X 12"
" OTHERS	2 1/2" X 12"
ENG. TRUCK	
5" X 12"	
VALVE DATA	
TRAVEL	5"
LEAD	1/4"
LAP	7/8"
EXH. CL.	1/8"

VALVE GEAR	BAKER
FACTOR OF ADHESION	6.20
CYLINDER HORSE POWER	1235
PERCENT BOILER TO CYL. H.P.	110.0

SUPERHEATER-TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET ON 449,452; FRANKLIN-E ON 451
BLDRS. ORDER NO.	1279
BUILDER - A. L. CO.	BROOKS WKS.
YEAR BUILT	MAY - 1911

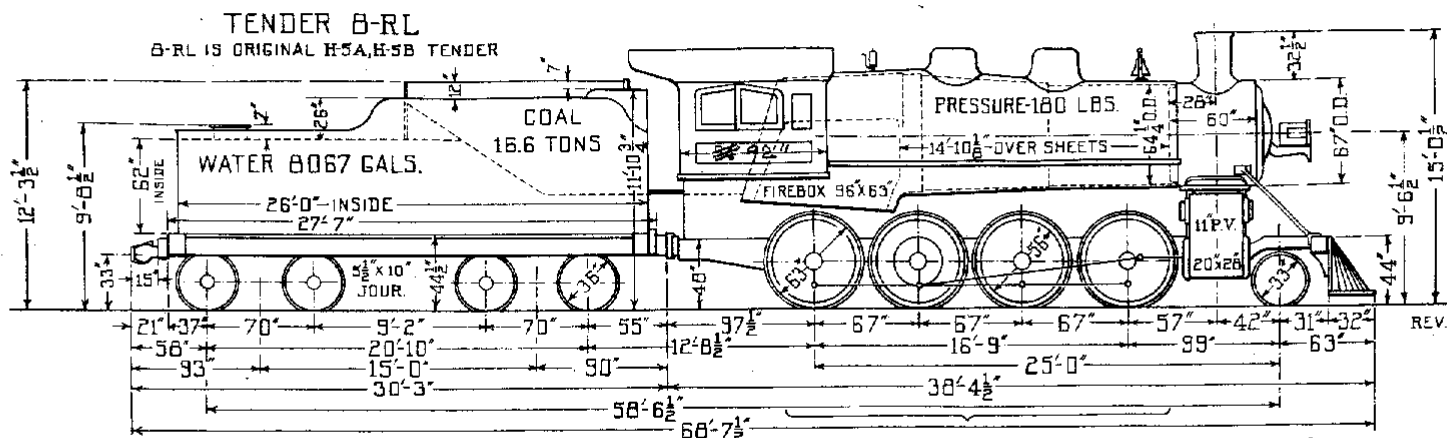
TRACTIVE POWER - 27 200 LBS.

NO. OF ENGINES - 5

N. K. P. CLASS N-6

42

ENGINES DESIGNED FOR 19° 0' CURVE



- ENGS.  
454  
455  
456  
457  
458

WEIGHTS -

71 300

90 950

159 100

25 800

WEIGHTS IN WORKING ORDER	
ON DRIVERS	159 100 LBS.
ON ENGINE TRUCK	25 800 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	184 900 LBS.
TENDER	162 250 LBS.
ENG. & TENDER	347 150 LBS.
TUBES, NO. - 153 - 2" O.D.	
FLUES, NO. - 22 - 5 3/8" O.D.	
TUBES & FLUES, LENGTH	14'-10 1/8"
ARCH TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	96"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1714 SQ. FT.
FIREBOX AND ARCH TUBES	171 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	1885 SQ. FT.
SUPERHEATER H.S.	368 SQ. FT.
GRATE AREA	40.9 SQ. FT.

JOURNALS - DRIVING MAIN	9" x 12"
" " OTHERS	8 1/2" x 12"
" " ENG. TRUCK	6" x 12"
VALVE DATA	
TRAVEL	6"
LEAD	7/32"
LAP	1"
EXN. CL.	1 1/16"

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	5.84
CYLINDER HORSE POWER	1297
PERCENT BOILER TO CYL. H.P.	101.0

SUPERHEATER TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET DN 454, 456;
FRANKLIN-E	DN 455, 456, 457.
BLDG. ORDER NO.	B-1343
BUILDER	A.L. CO. - BROOKS WKS.
YEAR BUILT	AUG-1919



TRACTION POWER-24 220 LBS.

NO. OF ENGINES - 2  
SEE ALSO OTHER PAGES OF 43

N. K.P. CLASS-R

43

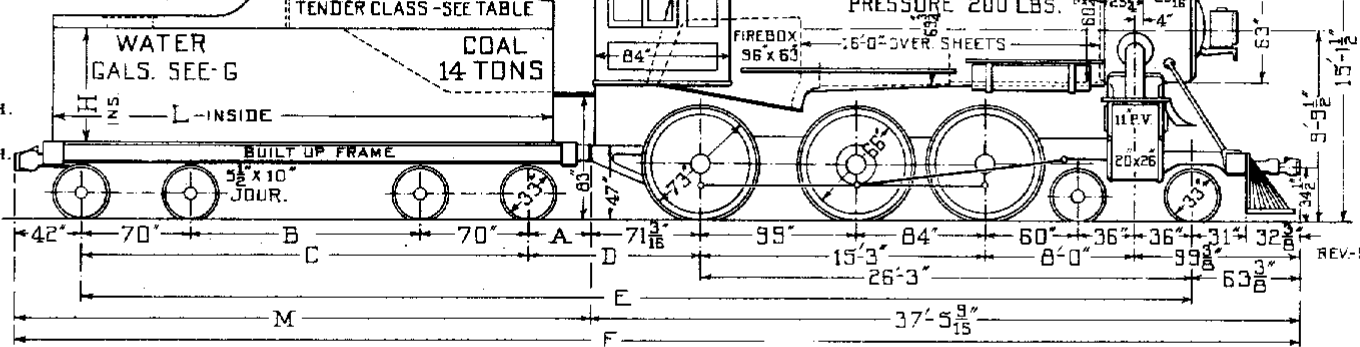
ENGS.  
152  
153

ENG. CLASS	TENDER WATER G	A	B	C	D	E	F	H	L	TENDER WT. LBS.	ENG. & TENDER TOTAL LBS.
152 B-RN	8200	40"	12'-6"	24'-4"	9'-3 <sup>3</sup> / <sub>16</sub> "	59'-10 <sup>3</sup> / <sub>16</sub> "	69'-7 <sup>3</sup> / <sub>16</sub> "	63"	26'-10 <sup>1</sup> / <sub>2</sub> "	159750	331260
155 B-RP	8500	39"	11'-9"	23'-5"	9'-2 <sup>3</sup> / <sub>16</sub> "	58'-10 <sup>3</sup> / <sub>16</sub> "	67'-7 <sup>3</sup> / <sub>16</sub> "	68 <sup>1</sup> / <sub>2</sub> "	25'-10 <sup>1</sup> / <sub>2</sub> "	163580	335080

ENG.	M
152	31'-2"
155	30'-2"

—NOTE—  
TENDER B-RN IS ORIGINAL CLASS 'R' LENGTHENED TO 26'-10<sup>1</sup>/<sub>2</sub>" X 63" DEEP AT H.  
TENDER B-RP IS ORIGINAL CLASS 'R' LENGTHENED TO 25'-10<sup>1</sup>/<sub>2</sub>" X 68<sup>1</sup>/<sub>2</sub>" DEEP AT H.

TENDERS B-RN, B-RP



WEIGHTS-

79 080 (HEAVIEST) 84 500 38 500 41 200 38 200 26 800 26 800

WEIGHTS IN WORKING ORDER  
ON DRIVERS 117 900 LBS.  
ON ENGINE TRUCK 53 600 LBS.  
ON TRAILING TRUCK  
ENGINE TOTAL 171 500 LBS.  
TENDER - HEAVIEST 163 580 LBS.  
ENG. & TENDER 335 080 LBS.  
TUBES, NO. - 163 - 2" O.D.  
FLUES, NO. - 22 - 5<sup>3</sup>/<sub>8</sub>"  
TUBES & FLUES, LENGTH 16'-0"  
ARCH TUBES, NO. 3 - O.D. 3"

FIREBOX LENGTH 96"  
" WIDTH 63"  
HEATING SURFACE  
TUBES & FLUES 1848 SQ. FT.  
FIREBOX AND ARCH TUBES 139 SQ. FT.  
SYPHONS SQ. FT.  
TOTAL HEATING SURFACE 1987 SQ. FT.  
SUPERHEATER H.S. 395 SQ. FT.  
GRATE AREA 40.9 SQ. FT.

JOURNALS - DRIVING MAIN 9" x 12"  
" OTHERS 9" x 12"  
ENG. TRUCK 5<sup>1</sup>/<sub>2</sub> x 12"  
VALVE DATA  
TRAVEL 6" - LAP 1<sup>1</sup>/<sub>16</sub>"  
LEAD 1/4" - EXH. CL. 1/16"

VALVE GEAR WALSCHAERT  
FACTOR OF ADHESION 4.66  
CYLINDER HORSE POWER 1442  
PERCENT BOILER TO CYL. H.P. 87.0

SUPERHEATER - TYPE A  
F.W. HEATER  
STOKER  
BOOSTER  
REVERSE GEAR PRECISION

B.L.O.R.S. ORDER NO.  
BUILDER BALDWIN LOCO. WKS.  
YEAR BUILT JUNE - 1907

REV-9-8-1942

TRACTION POWER - 24 220 LBS.

ENG.	TENDER CLASS	WATER G.	TENDER WEIGHT	ENG. & TEND. WEIGHT	A	B	C	D	E
156	B-RR	8600	163 580	340280	40"	11'-9"	23'-9"	9'-3 <sup>3</sup> / <sub>8</sub> "	58'-11 <sup>1</sup> / <sub>2</sub> "
157	B-RR	8300	163 580	340280	37"	11'-8"	23'-4"	9'-0 <sup>1</sup> / <sub>8</sub> "	58'-7 <sup>1</sup> / <sub>2</sub> "
158	B-RR	8600	163 580	340280	37"	11'-8"	23'-4"	9'-0 <sup>1</sup> / <sub>8</sub> "	58'-7 <sup>1</sup> / <sub>2</sub> "

ENG.	F	H	L	M
156	67'-6 <sup>1</sup> / <sub>8</sub> "	68 <sup>1</sup> / <sub>2</sub> "	25'-10 <sup>1</sup> / <sub>2</sub> "	30'-1"
157	67'-3 <sup>3</sup> / <sub>8</sub> "	62 <sup>1</sup> / <sub>2</sub> "	23'-11 <sup>1</sup> / <sub>2</sub> "	29'-10"
158	67'-5 <sup>1</sup> / <sub>8</sub> "	62 <sup>1</sup> / <sub>2</sub> "	23'-11 <sup>1</sup> / <sub>2</sub> "	29'-11 <sup>1</sup> / <sub>2</sub> "

ENG.	N
156	40"
157	41"
158	42 <sup>1</sup> / <sub>2</sub> "

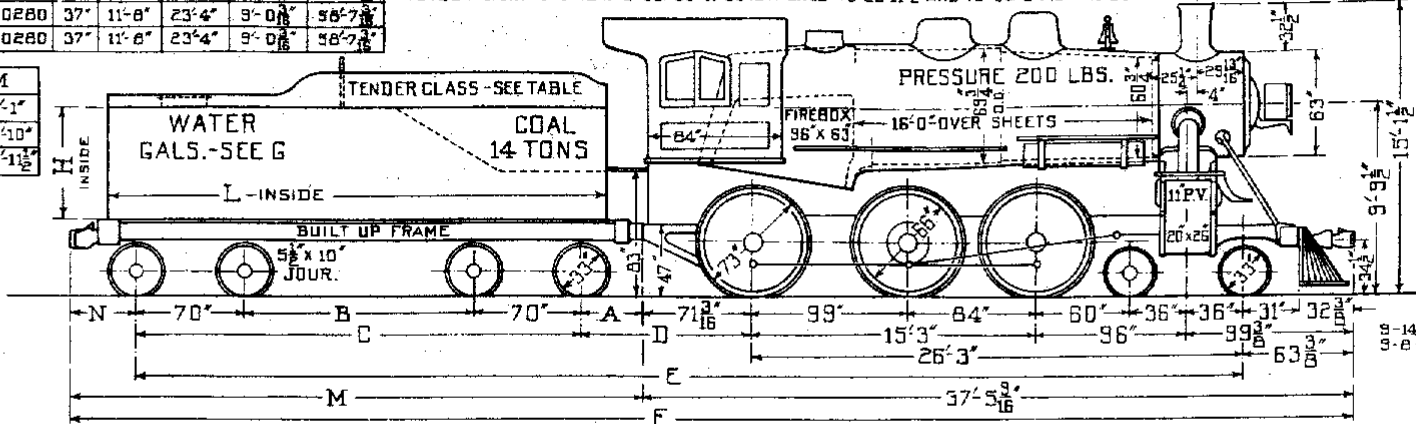
NO. OF ENGINES - 3  
SEE ALSO OTHER PAGES OF 43

TENDER B-RR IS ORIGINAL CLASS "R" LENGTHENED TO 25'-10<sup>1</sup>/<sub>2</sub>" AND IS 88<sup>1</sup>/<sub>2</sub>" HIGH INSIDE.  
TENDER C-RR IS ORIGINAL CLASS "R" LENGTHENED TO 23'-11<sup>1</sup>/<sub>2</sub>" AND IS 82<sup>1</sup>/<sub>2</sub>" HIGH INSIDE.

N. K. P. CLASS R

43-B

ENGS.  
156  
157  
158



WEIGHTS -

79 080                      84 500                      42 250                      44 950                      41 950                      23 775                      23 775

WEIGHTS IN WORKING ORDER	
ON DRIVERS	129 150 LBS.
ON ENGINE TRUCK	47 350 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	176 700 LBS.
TENDER	163 580 LBS.
ENG. & TENDER	340 280 LBS.
TUBES, NO. - 153 - 2" O. D.	
FLUES, NO. - 22 - 5 <sup>3</sup> / <sub>8</sub> D. D.	
TUBES & FLUES, LENGTH	16'-0"
ARCH TUBES, NO. 3 - O. D. 3"	

FIREBOX LENGTH	96"
" WIDTH	63"
" HEATING SURFACE	
TUBES & FLUES	1848 SQ. FT.
FIREBOX AND ARCH TUBES	139 SQ. FT.
SYPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	1987 SQ. FT.
SUPERHEATER H.S.	395 SQ. FT.
GRATE AREA	40.9 SQ. FT.

JOURNALS - DRIVING MAIN	5" x 12"
" OTHERS	5" x 12"
ENG. TRUCK	3 <sup>1</sup> / <sub>2</sub> x 12"

VALVE DATA  
TRAVEL 6"    LAP 1<sup>1</sup>/<sub>16</sub>"  
LEAD 1/4"    EXH. CL. 1/16"

VALVE GEAR - WALSCHAERT  
FACTOR OF ADHESION - 5.33  
CYLINDER HORSE POWER - 1442  
PERCENT BOILER TO CYL. H.P. - 87.0

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	PRECISION

BLDRS. ORDER NO. - B-1340  
BUILDER - A. L. CO. - BROOKS WKS.  
YEAR BUILT - AUG. 1913

9-14-1937  
9-8-1942

TRACTIVE POWER - 24 220 LBS.

NO. OF ENGINES - 1  
SEE ALSO OTHER PAGES OF 43

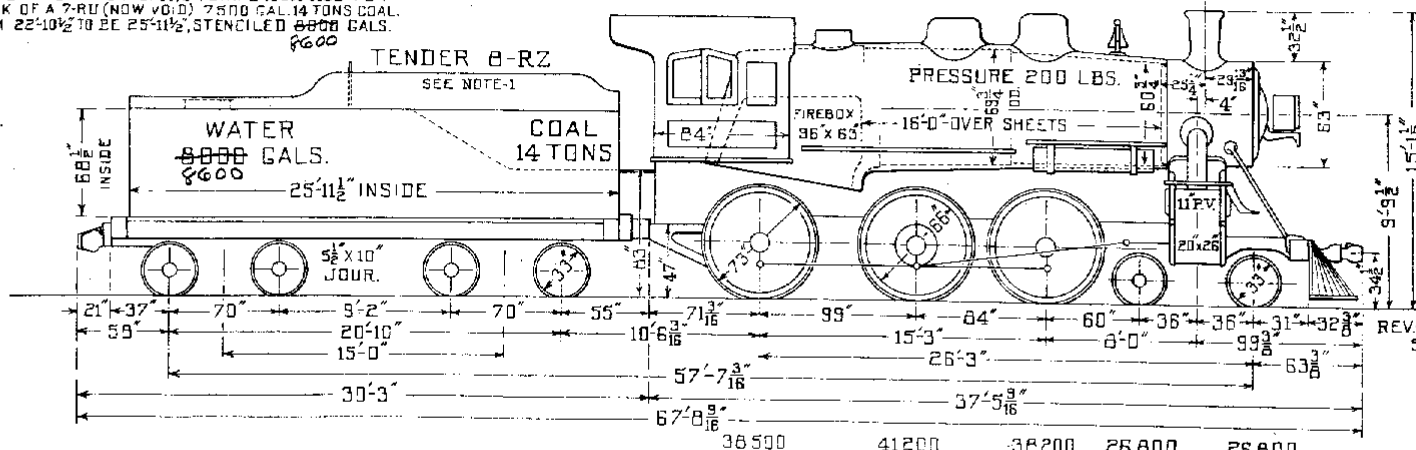
N. K.P.

CLASS-R

43A

ENG.  
154

NOTE-1: TENDER B-RZ, WEIGHT LOADED IS 153 900 LBS. WT. WITH WATER ONLY IS 120 540 LBS. - WT. LIGHT IS 56 900 LBS. WATER 8000 GALS. COAL 14 TONS. TENDER IS MADE FROM AN B-RL AS ON PAGE 27-A. ORIGINAL H5A-H5B FOR FRAME AND TRUCKS, WITH TANK OF A 7-RU (NOW VOID) 7500 GAL. 14 TONS COAL. TANK IS LENGTHENED 37" FROM 22'-10 1/2" TO BE 25'-11 1/2", STENCILED 8000 GALS. AND 14 TONS.



REV-10-1941  
5-8-1942

WEIGHTS-

ON DRIVERS	117 900 LBS.	FIREBOX LENGTH	96"	JOURNALS-DRIVING MAIN	9" X 12"	SUPERHEATER-TYPE	A
ON ENGINE TRUCK	53 600 LBS.	" WIDTH	63"	" OTHERS	9" X 12"	F W. HEATER	
ON TRAILING TRUCK		HEATING SURFACE		ENG. TRUCK	3 1/2" X 12"	STOKER	
ENGINE TOTAL	171 500 LBS.	TUBES & FLUES	1848 SQ. FT.	VALVE DATA		BOOSTER	
TENDER	153 900 LBS.	FIREBOX AND ARCH TUBES	139 SQ. FT.	TRAVEL	5"	REVERSE GEAR	PRECISION
ENG. & TENDER	325 400 LBS.	SYPHONS	50 SQ. FT.	LEAD	1/4"		
TUBES, NO. - 163 - 2" O.D.		TOTAL HEATING SURFACE	1987 SQ. FT.	LAP	1 1/16"	VALVE GEAR	WALSCHAERT
FLUES, NO. - 22 - 5 3/8" O.D.		SUPERHEATER H.S.	395 SQ. FT.	EXH. CL.	1/16"	FACTOR OF ADHESION	4.86
TUBES & FLUES, LENGTH - 16'-0"		GRATE AREA	40.9 SQ. FT.			CYLINDER HORSE POWER	1442
ARCH TUBES, NO. 5 - O.D. 3"						PERCENT BOILER TO CYL. H.P.	87.0
SUPERHEATER TUBES, O.D.							

BLDRS. ORDER NO. \_\_\_\_\_  
BUILDER - BALDWIN LOCO. WKS.  
YEAR BUILT - JUNE-1907

TRACTIVE POWER - 64100 LBS.

NO. OF ENGINES - 25

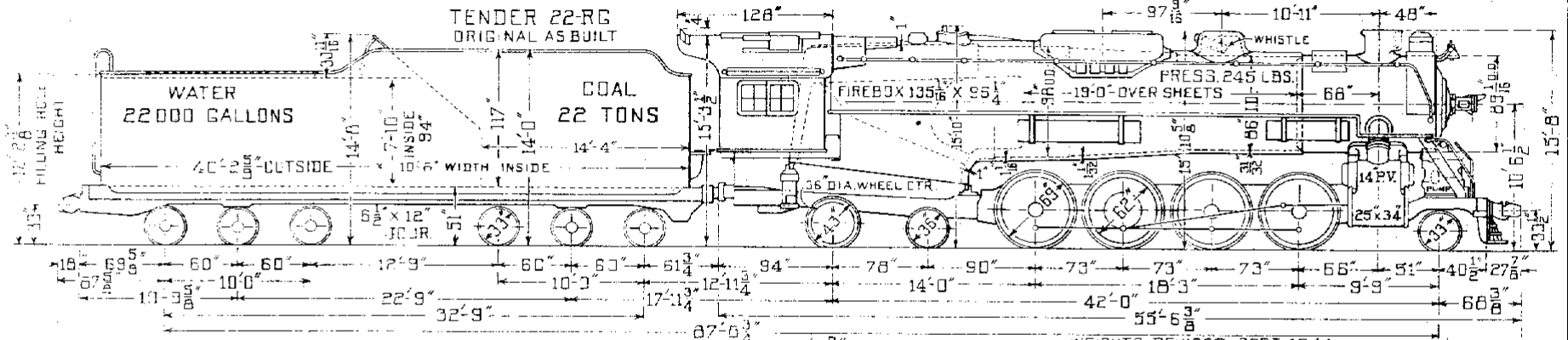
N. K. P.

CLASS S-1

44A

ENGINE DESIGNED FOR 20° CURVE - ENG. TRUCK SWING 7" - TRAILER TRUCK SWING 9 1/2"

ENGS. 715 TO 739



WEIGHTS - 186700 175000 61500 52000 66400 65900 64700 64800 54200 10-3-1944

<p>WEIGHTS IN WORKING ORDER</p> <p>ON DRIVERS 251800 LBS.</p> <p>ON ENGINE TRUCK 54200 LBS.</p> <p>ON TRAILING TRUCK 113500 LBS.</p> <p>ENGINE TOTAL 429500 LBS.</p> <p>TENDER 361700 LBS.</p> <p>ENG. &amp; TENDER 791200 LBS.</p> <p>TUBES, NO. 73 O.D. 2 1/4"</p> <p>FLUES, NO. 202 O.D. 3 1/2"</p> <p>TUBES &amp; FLUES, LENGTH 13'-0"</p> <p>ARCH TUBES, NO. 2 O.D. 3 1/2"</p> <p>SUPERHEATER TUBES O.D. 1 3/16"</p>	<p>FIREBOX LENGTH 135 1/4"</p> <p>" WIDTH 96 3/4"</p> <p>HEATING SURFACES</p> <p>TUBES &amp; FLUES 4372 SQ. FT.</p> <p>FIREBOX 343 SQ. FT.</p> <p>ARCH TUBES 19 SQ. FT.</p> <p>SYPHONS 99 SQ. FT.</p> <p>TOTAL HEATING SURFACE 4772 SQ. FT.</p> <p>SUPERHEATER H.S. 1932 SQ. FT.</p> <p>GRATE AREA 90.3 SQ. FT.</p>	<p>JOURNALS DRIVING MAIN 12 1/2" X 15"</p> <p>" OTHERS 11 1/2" X 15"</p> <p>ENG. TRUCK 8 1/2" X 15"</p> <p>TRAILER-F 7" X 14" B-9" X 14"</p> <p>VALVE DATA LAP 3/16"</p> <p>TRAVEL 8" 3/16"</p> <p>LEAD 3/16"</p> <p>EXM. CL. 3/16"</p> <p>VALVE GEAR BAKER</p> <p>FACTOR OF ADHESION 4.0</p> <p>HORSE POWER 2734</p> <p>FLUENT BOILER TO CYL. N. P. 114.9</p>	<p>TENDER FRAME C. ST. WATER BOTTOM</p> <p>TENDER TRUCK FRAME CAST STEEL</p> <p>" BOLSTER CAST STEEL</p> <p>SUPERHEATER TYPE E</p> <p>F. W. HEATER WORTHINGTON TYPE S-S</p> <p>STOKER STANDARD TYPE MB</p> <p>BOOSTER</p> <p>REVERSE GEAR PRECISION TYPE F-2</p> <p>SAFETY VALVES 3 3/2"</p>	<p>BUILDER'S ORDER NUMBERS</p> <p>ENGS. 715 TO 729 ORDER-1160</p> <p>ENGS. 730 TO 739 ORDER-1166</p> <p>BUILDER LIMA Loco. WORKS</p> <p>YEAR BUILT - 715 TO 729 - 1942</p> <p>YEAR BUILT - 730 TO 738 - 1943</p>
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TRACTION POWER - 64100 LBS.

NO. OF ENGINES - 30

N. K. P.

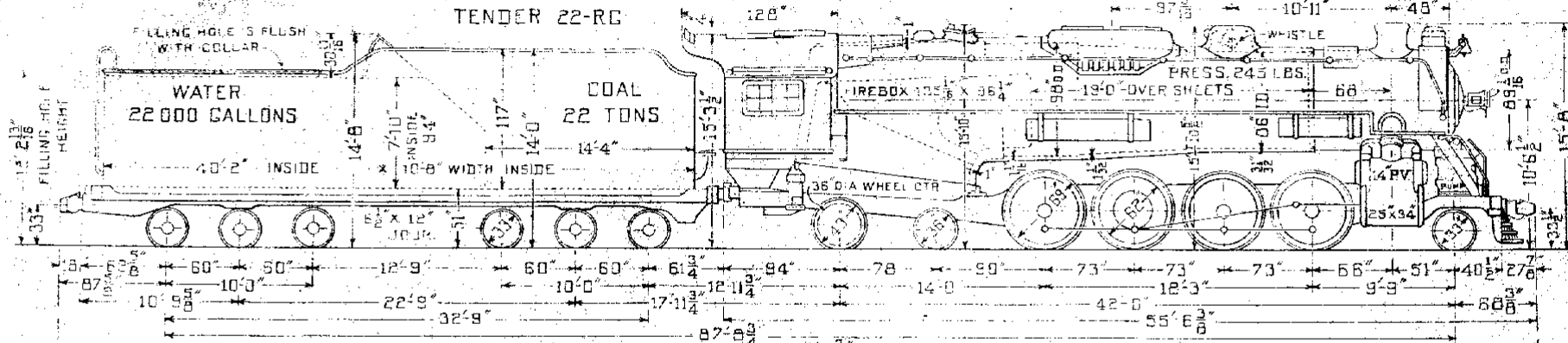
CLASS S-2

44B

ENGINE DESIGNED FOR 20° CURVE - ENG. TRUCK SWING 7° - TRAILER TRUCK SWING 9 1/2°

ENGS. 740 TO 769

TENDER 22-RC



WEIGHTS - 186700 175000 51200 51300 56200 65600 66200 66300 54000 9-20-1944

<b>WEIGHTS IN WORKING ORDER</b> ON DRIVERS 264300 LBS. ON ENGINE TRUCK 54000 LBS. ON TRAILER TRUCK 122500 LBS. ENGINE TOTAL 440800 LBS. TENDER 381700 LBS. ENG. & TENDER 802500 LBS. TUBES, NO. 73 - 2 1/2" O.D. FLUES, NO. 202 - 3 1/2" O.D. TUBES & FLUES, LENGTH 19'-0" ARCH TUBES, NO. 2 O.D. 3 1/2" SUPERHEATER TUBES, 103 O.D. 1 1/2"		FIREBOX LENGTH 135 1/16" " WIDTH 36 1/4" <b>TUBES &amp; HEATING SURFACES</b> TUBES & FLUES 4312 SQ. FT. FIREBOX 343 SQ. FT. ARCH TUBES 19 SQ. FT. SYPHONS 38 SQ. FT. TOTAL HEATING SURFACE 4772 SQ. FT. SUPERHEATER H.S. 1332 SQ. FT. GRATE AREA 90.3 SQ. FT.		<b>JOURNALS DRIVING MAIN</b> 1 3/16" DIA. " " OTHERS 1 1/8" DIA. " " ENG. TRUCK 9/16" DIA. " " TR. TRUCK 7/16" FRONT 9/16" REAR <b>VALVE DATA</b> TRAVEL 8" LAP 1 1/16" EXH. CL. 1/16" LEAD 3/16" VALVE GEAR BAKER WITH NEEDLE BEARINGS FACTOR OF ADHESION 4.35 CYL. HORSE POWER 2754 PERCENT BOILER TO CYL. N. P. 114.9 * TIMKEN JOURNAL BEARINGS ON ENGINE TRUCK AND DRIVERS		TENDER FRAME - C. ST. WATER BOTTOM TENDER TRUCK FRAME - CAST STEEL " " BOLSTER, BUCKEY TYPE SUPERHEATER - TYPE ELESKO - TYPE E F.W. HEATER WURTHINGTON - TYPE S-SSA STOKER - STANDARD - TYPE MB BOOSTER - NONE REVERSE GEAR - PRECISION - TYPE F-2 SAFETY VALVES 3 - 3 1/2" ENG. FRAME - S.S.C.O. LOCOMOTIVE BED THROTTLE - AMERICAN MULTIPLE FRONT END LUBRICATOR - RIGHT SIDE - DETROIT MODEL-5		LUBRICATOR - L. SIDE - NATHAN - TYPE DV-7 INJECTOR - NATHAN - TYPE 4-00 AIR BRAKE - 6 ET EQUIPMENT <b>BUILDER'S ORDER NUMBERS -</b> ENGS. 740 TO 754 NO. 1179 ENGS. 755 TO 769 NO. 1184 BUILDER - LIMA LOCO. WORKS YEAR BUILT - 1944	
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TRACTIVE POWER - 64100 LBS.

NO. OF ENGINES - 30

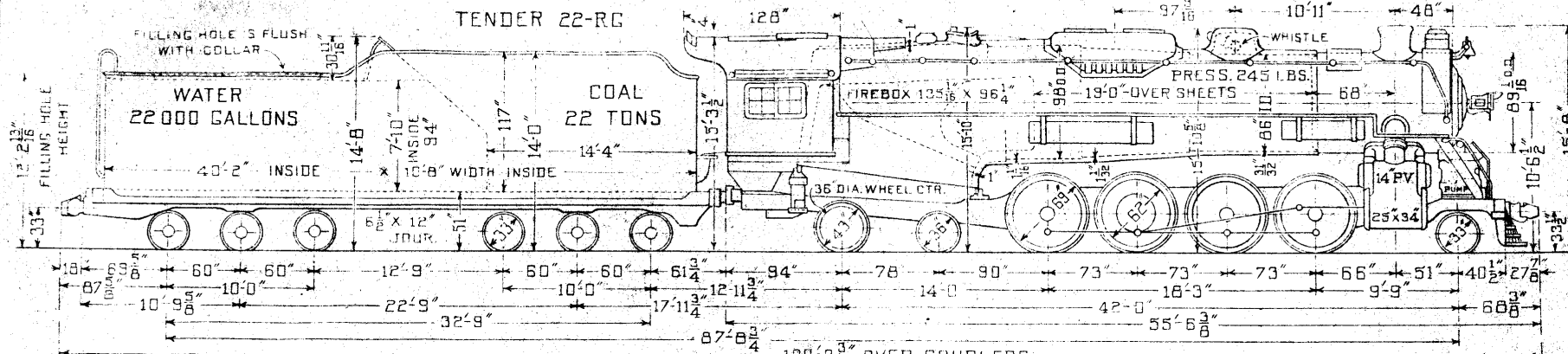
N. K. P.

CLASS S-2

44-B

ENGINE DESIGNED FOR 20° CURVE - ENG. TRUCK SWING 7" - TRAILER TRUCK SWING 9 1/2"

ENGS. 740 TO 769



WEIGHTS - 186700 175000 51200 51300 65200 65600 66200 66300 54000 9-20-1944

<b>WEIGHTS IN WORKING ORDER</b> ON DRIVERS 254300 LBS. ON ENGINE TRUCK 54000 LBS. ON TRAILER TRUCK 122500 LBS. ENGINE TOTAL 440800 LBS. TENDER 361700 LBS. ENG. & TENDER 802500 LBS. TUBES, NO. 73 2 1/4" O.D. FLUES, NO. 202 3 1/2" O.D. TUBES & FLUES, LENGTH 19'-0" ARCH TUBES, NO. 2 O.D. 3 1/2" SUPERHEATER TUBES, 103 O.D. 1 1/16"		FIREBOX LENGTH 135 1/16" " WIDTH 96 1/4" <b>TUBES &amp; HEATING SURFACES</b> TUBES & FLUES 4312 SQ. FT. FIREBOX 343 SQ. FT. ARCH TUBES 19 SQ. FT. SYPHONS 98 SQ. FT. TOTAL HEATING SURFACE 4772 SQ. FT. SUPERHEATER H.S. 1932 SQ. FT. GRATE AREA 90.3 SQ. FT.		<b>JOURNALS DRIVING-MAIN</b> 1 3/4" DIA. " OTHERS 1 1/2" DIA. " ENG. TRUCK 8 3/4" DIA. " TR. TRUCK 7" X 14" FRONT 9" X 14" REAR <b>VALVE DATA</b> TRAVEL 8" LAP 1 1/16" LEAD 3/16" EXH. CL. 1/16" VALVE GEAR BAKER WITH NEEDLE BEARINGS FACTOR OF ADHESION 4 1/2 CYL. HORSE POWER 2754 PERCENT BOILER TO CYL. H. P. 114.9 * TIMKEN JOURNAL BEARINGS ON ENGINE TRUCK AND DRIVERS		TENDER FRAME - C. ST. WATER BOTTOM TENDER TRUCK FRAME - CAST STEEL " BOLSTER BUCKEYE TYPE SUPERHEATER - TYPE E. LESCO - TYPE - E F. W. HEATER WORTHINGTON - TYPE - S-SSA STOKER - STANDARD - TYPE - MB BOOSTER - NONE REVERSE GEAR - PRECISION - TYPE - F-2 SAFETY VALVES 3 - 3 1/2" ENG. FRAME - G.S.C.O. LOCOMOTIVE BED THROTTLE - AMERICAN MULTIPLE FRONT END LUBRICATOR - RIGHT SIDE - DETROIT MODEL - B		LUBRICATOR - L. SIDE - NATHAN - TYPE - DV-7 INJECTOR - NATHAN - TYPE - 4000 AIR BRAKE - 6 ET EQUIPMENT <b>BUILDER'S ORDER NUMBERS -</b> ENGS. 740 TO 754 NO. 1179 ENGS. 755 TO 769 NO. 1164 BUILDER - LIMA LOCO WORKS YEAR BUILT - 1944	
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TRACTION POWER - 64100 LBS.

TOTAL ENGS. IN CLASS - 15

N. K. P.

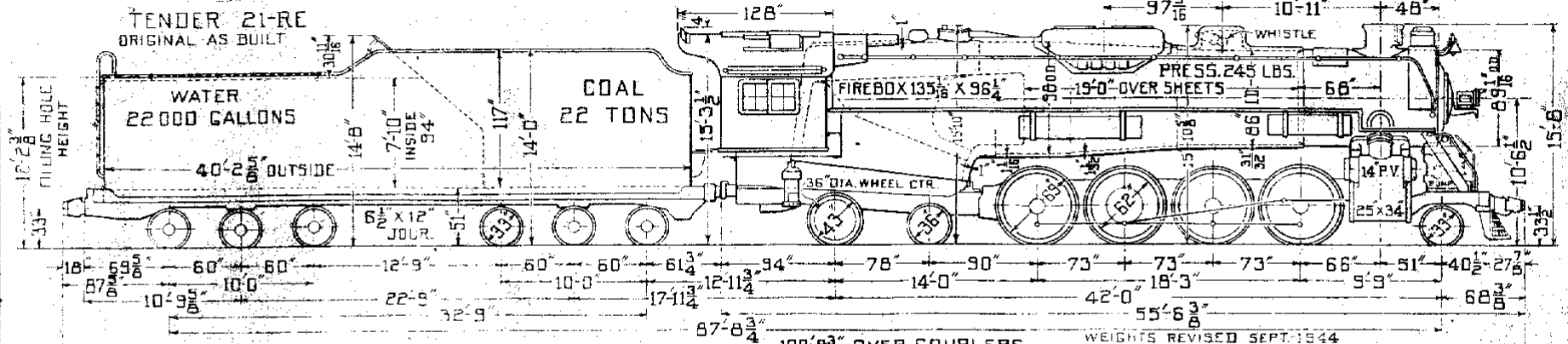
CLASS S

44

ENG. NOS. 700 TO 707 RECD. SEP. 1934, ENGS. 708 TO 712 - OCT. 1934, ENGS. 713 TO 714 - NOV. 1934

ENGS. 700 TO 714

ENGINE DESIGNED FOR 20° CURVE - ENG. TRUCK SWING 7" - TRAILER TRUCK SWING 9 1/2"



WEIGHTS 165000

173000

100'-0" OVER COUPLERS  
61300 52000 63600 65600 64800 65100 54500

WEIGHTS IN WORKING ORDER	
ON DRIVERS	251,100 LBS.
ON ENGINE TRUCK	54,500 LBS.
ON TRAILER TRUCK	113,800 LBS.
ENGINE TOTAL	425,900 LBS.
TENDER	338,900 LBS.
ENG. & TENDER	786,900 LBS.
TUBES, NO. 72	O.D. 2 1/4"
FLUES, NO. 202	O.D. 3 3/8"
TUBES & FLUES, LENGTH	19'-0"
ARCH TUBES, NO. 2	O.D. 3 1/2"
SUPERHEATER TUBES	O.D. 1 3/8"

FIREBOX LENGTH	135 1/8"
" WIDTH	96 1/4"
" HEATING SURFACES	
TUBES & FLUES	43.2 SQ. FT.
FIREBOX	34.3 SQ. FT.
ARCH TUBES	1.9 SQ. FT.
SYPHONS	.95 SQ. FT.
TOTAL HEATING SURFACE	47.22 SQ. FT.
SUPERHEATER H.S.	18.32 SQ. FT.
GRATE AREA	80.3 SQ. FT.

JOURNALS - DRIVING MAIN	12 1/2" x 13"
" " OTHERS	11 1/2" x 13"
" " ENG. TRUCK	6 1/2" x 12"
" " TRAILER F.	7" x 14"
" " B.	9" x 14"
VALVE DATA	
TRAVEL	3"
LEAD	3/16"
LAP	1 1/8"
EXH. CL.	1/16"

CRANK PINS - MAIN	3 1/2" x 6 1/2" x 8" x 9"
VALVE GEAR	BAKER
FACTOR OF ADHESION	3.98
CYL. HORSE POWER	2754
PERCENT BOILER TO CYL. N.P.	114.9
TENDER FRAME	CAST STEEL - WATER BOTTOM
TENDER TRUCK FRAME	CAST STEEL
" " BOLSTER	CAST STEEL

SUPERHEATER - TYPE	E
F.W. HEATER	WORTHINGTON - TYPE 6-S
BOOSTER	MODIFIED - TYPE B
REVERSE GEAR	PRECISION - TYPE F
SAFETY VALVES	3 - 3 1/2" COALE
BUILDERS ORDER NO.	5-1236
BUILDER	A.L. CO. - SCHENECTADY
YEAR BUILT	1934

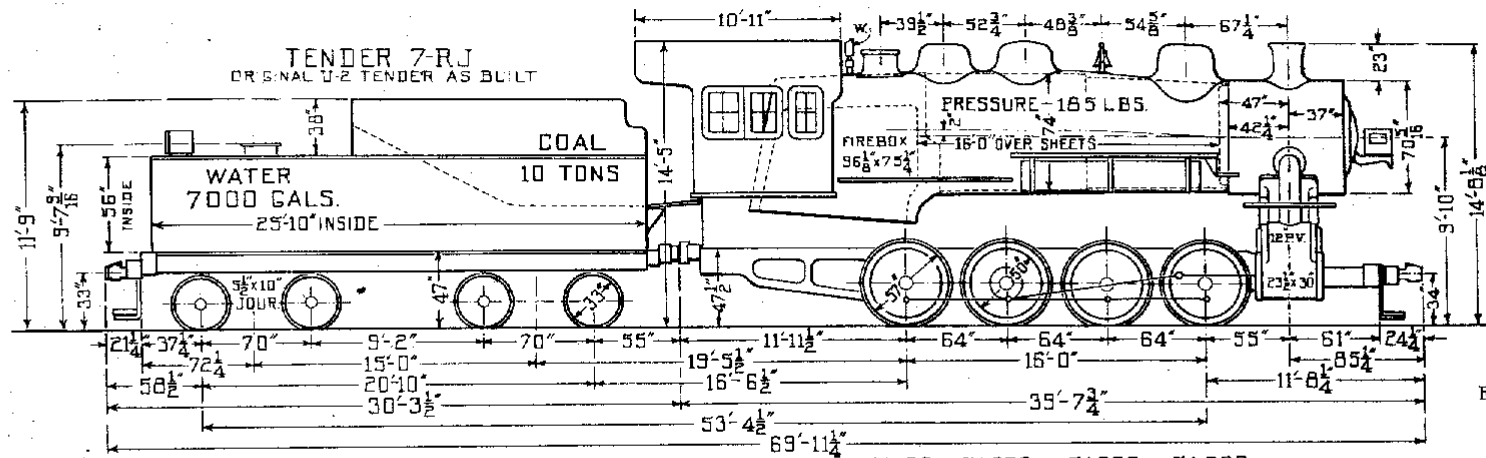
TRACTIVE POWER - 45 700 LBS.

NO. OF ENGINES - 5

N. K. P.

CLASS U-2

45



- ENGS. 200
- 201
- 202
- 203
- 204

DEC-1937  
REV. 5-1942

WEIGHTS -

WEIGHTS IN WORKING ORDER	
ON DRIVERS	216 500 LBS.
ON ENGINE TRUCK	
ON TRAILING TRUCK	
ENGINE TOTAL	216 500 LBS.
TENDER	137 300 LBS.
ENGS. & TENDER	353 800 LBS.
TUBES, NO. - 177 - 2" O.D.	
FLUES, NO. - 28 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	16'-0"
ARCH TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	96 1/8"
" WIDTH	75 1/4"
" HEATING SURFACE	2115.4 SQ. FT.
TUBES & FLUES	187 SQ. FT.
FIREBOX AND ARCH TUBES	167 SQ. FT.
SYPHONS	50. FT.
TOTAL HEATING SURFACE	2302.4 SQ. FT.
SUPERHEATER H.S.	526 SQ. FT.
GRATE AREA	50.2 SQ. FT.

JOURNALS - DRIVING MAIN	10" X 17"
" " OTHERS	3" X 12"
ENG. TRUCK	

VALVE DATA	
TRAVEL	6" LAP 1"
LEAD	1/16" EXN. CL. L & L.

VALVE GEAR	WALSCHAERT
FACTOR OF ADHESION	4.74
CYLINDER HORSE POWER	1641
PERCENT BOILER TO CYL. H.P.	82.7

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RACONNET

R.R. LOT NO. - 204  
BLDRS. ORDER NO. - 123  
BUILDER - LIMA LOCO. WORKS  
YEAR BUILT - MAY-1918

54100 54200 54200 54000





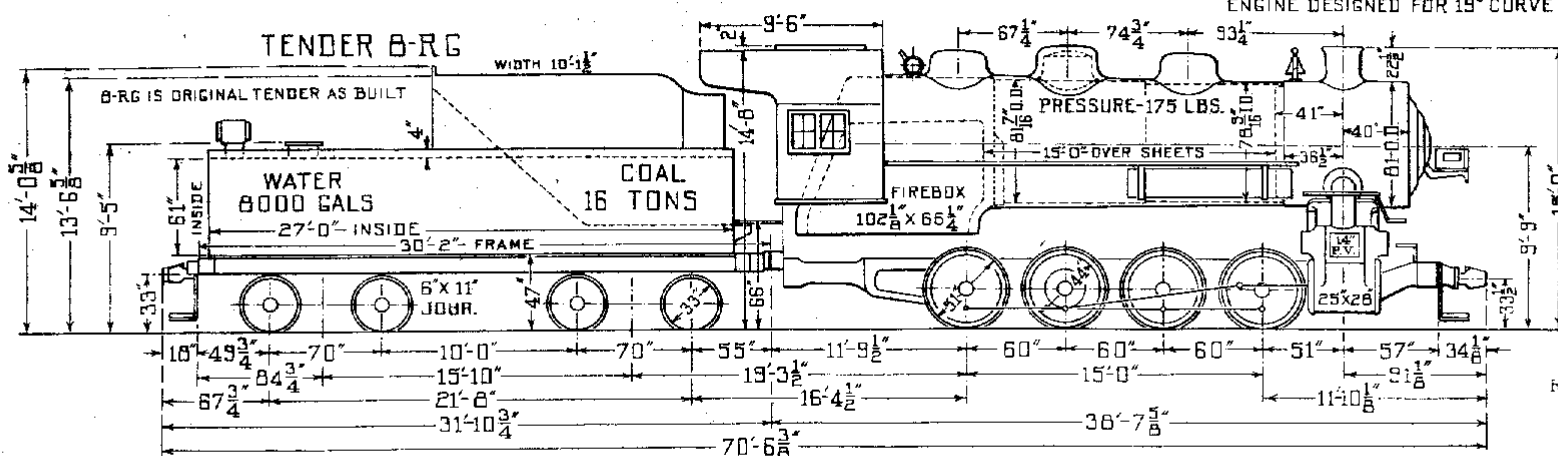
TRACTION POWER - 31000 LBS.

NO. OF ENGINES - 10

N. K.P. CLASS U-3B

47

ENGINE DESIGNED FOR 19° CURVE



- ENGS. 210
- 211
- 212
- 213
- 214
- 215
- 216
- 217
- 218
- 219

REV. AUG. 1942

WEIGHTS-

55700 55800 53000 52000

WEIGHTS IN WORKING ORDER	
ON DRIVERS	216 500 LBS.
ON ENGINE TRUCK	
ON TRAILING TRUCK	
ENGINE TOTAL	216 500 LBS.
TENDER	167 000 LBS.
ENG. & TENDER	383 500 LBS.
TUBES, NO. - 230 - 2" O.D.	
FLUES, NO. - 36 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	15'-0"
ARCH TUBES, NO. 4 - O.D 3"	

FIREBOX LENGTH	102 3/8"
WIDTH	65 1/4"
HEATING SURFACE	
TUBES & FLUES	2568.6 SQ. FT.
FIREBOX AND ARCH TUBES	214 SQ. FT.
SYPHONS	
TOTAL HEATING SURFACE	2782.6 SQ. FT.
SUPERHEATER H.S.	562 SQ. FT.
GRATE AREA	47 SQ. FT.

JOURNALS - DRIVING MAIN	10" X 12"
" " OTHERS	9" X 12"
ENG. TRUCK	
VALVE DATA	
TRAVEL	5 3/4"
LEAD	1/8"
LAP 1"	
EXH. CL L. & L.	

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.24
CYLINDER HORSE POWER	1970
PERCENT BOILER TO CYL. H.P.	94.3

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
ROOSTER	
REVERSE GEAR	RAGONNET
R.R. LOT NO. - 211	
BLDGS. ORDER NO. - 1067	
BUILDER - LIMA LOCO. WORKS	
YEAR BUILT - JUNE 1924	

TRACTIVE POWER - 51 000 LBS.

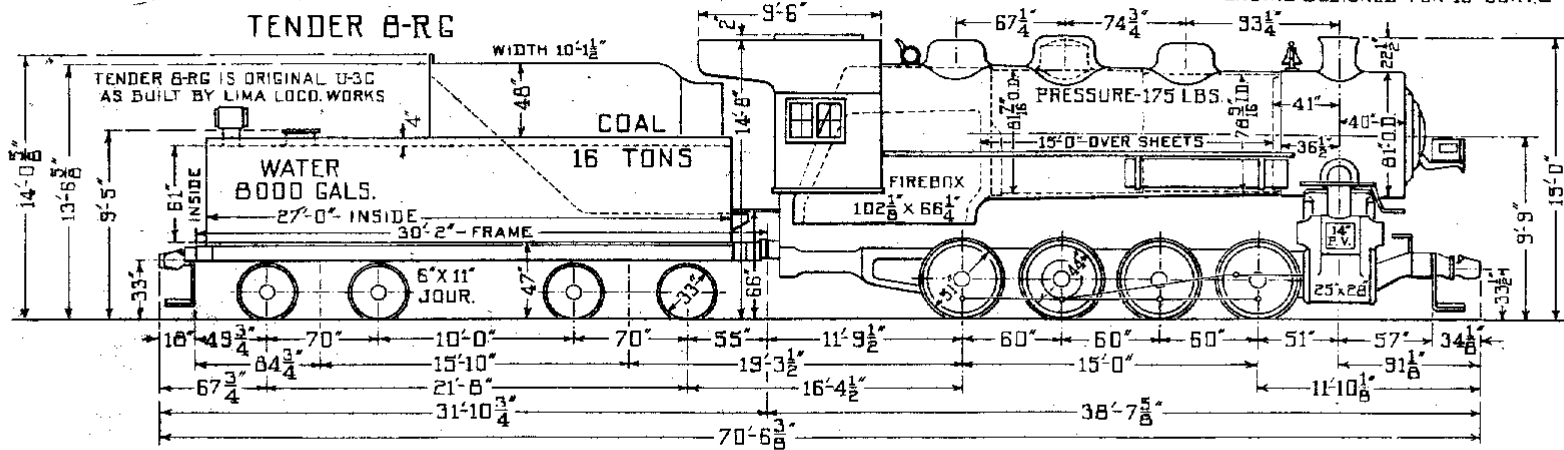
NO. OF ENGINES - 10

N. K.P.

CLASS U-3C

48

ENGINE DESIGNED FOR 19° CURVE



- ENGS.  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229

WEIGHTS -

56825 56925 54125 53125

WEIGHTS IN WORKING ORDER	
ON DRIVERS	221 000 LBS.
ON TRAILING TRUCK	
ENGINE TOTAL	221 000 LBS.
TENDER	167 000 LBS.
ENG. & TENDER	388 000 LBS.
TUBES, NO. - 230 - 2" O.D.	
FLUES, NO. - 36 - 5 1/2" O.D.	
TUBES & FLUES, LENGTH	15'-0"
ARCH. TUBES, NO. 4 - O.D. 3"	

FIREBOX LENGTH	102 1/8"
" WIDTH	66 1/4"
" HEATING SURFACE	
TUBES & FLUES	2566.66 SQ. FT.
FIREBOX AND ARCH TUBES	214 SQ. FT.
SYMPHONS	50 SQ. FT.
TOTAL HEATING SURFACE	2782.6 SQ. FT.
SUPERHEATER H.S.	662 SQ. FT.
GRATE AREA	47 SQ. FT.

JOURNALS - DRIVING MAIN	10" X 12"
" OTHERS	9" X 12"
" ENG. TRUCK	
VALVE DATA	
TRAVEL	5 3/4" LAP 1"
LEAD	1/8" EXN. CL. L. B. L.

VALVE GEAR	BAKER
FACTOR OF ADHESION	4.33
CYLINDER HORSE POWER	1970
PERCENT BOILER TO CYL. H.P.	94.3

SUPERHEATER - TYPE	A
F.W. HEATER	
STOKER	
BOOSTER	
REVERSE GEAR	RAGONNET
R.R. LOT NO.	-212
BLDRS. ORDER NO.	1076
BUILDER	LIMA LOCO. WORKS
YEAR BUILT	JUNE-1923

N. K. P. TENDER CLASSES AND PAGES

(49)

CLASS	PAGE
4-RG	11
5-RE	12
5-RF	15
5-RG	9, 10
5-RH	10
6-RH	13, 14
6-RJ	11-A
6-RR	8
6-RS	16
7-RJ	45
7-RK	19, 22, 26
7-RY	22
8-RF	46
8-RG	47, 48
8-RH	12A, 26B
8-RHA	25

CLASS	PAGE
8-RJ	18, 23, 26A
8-RK	18
8-RL	27A, 39, 40, 41, 42
8-RN	43
8-RP	43, 43-B
8-RR	43-B
8-RS	17
8-RX	27-B, 28-C
8-RY	18, 23, 24
8-RZ	43-A
9-RR	19-A, 20, 21
10-RD	36, 37, 38
10-RE	28-D
10-RF	29-A, 33-D, 35
10-RG	27, 28, 30, 32, 34-A

CLASS	PAGE
11-RA	<del>38-A, 38-B</del>
11-RB	34-B
12-RC	32-A
12-RD	<del>38, 38-C</del>
13-RA	30-B, 31, 32-B, C, D, E
16-RA	33, 34-C, 38, 38-A
16-RB	33, 34-C, 38, 38-A
16-RC	29, 30-A, 33, 34, 34-C
21-RE	44
22-RA	32-C, 33-A, 33-C, 35-A
22-RG	44-A, 44-B

JAN.-1944

N. K. P. LOCOMOTIVE NUMBERS — OLD AND NEW														50	
OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW
709	9	67	67	97	97	165	165	215	215	337	337	456	456	503	503
716	15	68	68	98	98	166	166	216	216	5517	377	457	457	504	504
717	17	69	69	99	99	167	167	217	217	5520	379	458	458	505	505
50	50	70	70	103	103	168	168	218	218	5521	380			506	506
51	51	71	71	107	107	169	169	219	219	5522	381	5605	475	507	507
52	52	72	72	114	114	—	170 to 177	220	220	5523	<del>382</del>	5607	477	508	508
53	53	73	73	115	115	200	200	221	221	5525	384	5608	478	509	509
54	54	74	74	121	121	201	201	222	222	5526	385	5612	482	510	510
55	55	75	75	122	122	202	202	223	223	5528	387	5614	484	511	511
56	56	76	76	152	152	203	203	224	224	5530	389	5385	485	512	512
57	57	77	77	154	154	204	204	225	225	5533	392	5386	486	513	513
58	58	78	78	155	155	4250	205	226	226	5537	396	5388	488	514	514
59	59	79	79	156	156	4251	206	227	227	5538	397	5390	490	515	515
60	60	4275	80	157	157	4252	207	228	228	5539	398	5391	491	516	516
61	61	4276	81	158	158			229	229			5392	492	517	517
62	62	4277	82	160	160	210	210	—	300	440	440	5393	493	518	518
63	63			161	161	211	211	—	301	451	451	5399	499	519	519
64	64	94	94	162	162	212	212	—	302	452	452	500	500	520	520
65	65	95	95	163	163	213	213	—	303	454	454	501	501	521	521
66	66	96	96	164	164	214	214	—	304	455	455	502	502	522	522

REVISED 4-1942

N. K. P. — LOCOMOTIVE NUMBERS - OLD AND NEW

OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW	OLD	NEW
523	523	5548	594	614	614	634	634	654	654	—	702	—	722	120	820
524	524	5549	595	615	615	635	635	655	655	—	703	—	723	121	821
525	525	5550	596	616	616	636	636	656	656	—	704	—	724	122	822
526	526	5551	597	617	617	637	637	657	657	—	705	—	725	123	823
527	527	5552	598	618	618	638	638	658	658	—	706	—	726	124	824
528	528	5553	599	619	619	639	639	659	659	—	707	—	727	125	825
529	529	5554	600	620	620	640	640	660	660	—	708	—	728	133	833
530	530	601	601	621	621	641	641	661	661	—	709	—	729	134	834
531	531	602	602	622	622	642	642	662	662	—	710	—	730	135	835
532	532	603	603	623	623	643	643	663	663	—	711	—	TO	153	853
533	533	604	604	624	624	644	644	664	664	—	712	—	768	158	858
534	534	605	605	625	625	645	645	665	665	—	713	—		160	860
540	586	606	606	626	626	646	646	666	666	—	714	—		161	861
5541	587	607	607	627	627	647	647	667	667	—	715	—		163	863
5542	588	608	<del>608</del>	628	628	648	648	668	668	—	716	—		167	867
5543	589	609	609	629	629	649	649	669	669	—	717	—		171	871
5544	<del>590</del>	610	610	630	630	650	650	670	670	—	718	—		190	890
5545	591	611	611	631	631	651	651	671	671	—	719	—		191	891
5546	592	612	612	632	632	652	652	—	700	—	720	—		192	892
5547	593	613	613	633	633	653	653	—	701	—	721	—		193	893







N.K.P. — ENGINES EQUIPPED WITH AUTOMATIC TRAIN CONTROL

(54)

ENG.	CLASS	DATE
160	K-1A	6-1926
161	"	5 "
162	"	6 "
163	"	6 "
164	K-1B	7 "
165	"	6 "
166	"	6 "
167	"	6 "
168	"	6 "
169	"	6 "
170	L-1A	3-1927
171	"	3 "
172	"	3 "
173	"	3 "
174	L-1B	11-1929
175	"	11 "
176	"	11 "
177	"	11 "
506	H-5A	5-1926
507	H-5A	6 "

ENG.	CLASS	DATE
524	H-5B	6-1926
528	"	6 "
591	H-6D	2-1936
601	H-6A	6-1929
610	"	6 "
619	H-6D	6-1926
620	"	6 "
623	"	6 "
626	"	6 "
627	"	6 "
630	"	6 "
647	H-6E	6 "
648	"	2-1926
649	"	6-1926
650	"	6 "
651	"	6 "
652	"	6 "
653	"	6 "
654	"	6 "
655	"	6 "

ENG.	CLASS	DATE
656	H-6E	6-1926
657	"	6 "
658	"	5-1926
659	"	5 "
660	"	6-1926
661	"	6 "
705	S	9-1934
706	"	9 "
707	"	9 "
708	"	10-1934
709	"	10 "
710	"	10 "
711	"	10 "
712	"	10 "
713	"	11-1934
714	"	11-1934

RECAPITULATION	
CLASS	NO. EQUIPPED
H-5A	2
H-5B	2
H-6A	2
H-6D	6
H-6E	15
H-6D	1
K-1A	4
K-1B	6
L-1A	4
L-1B	4
S	10
TOTAL	56 ENGS.

SEPT.-1937

N. K. P. ENGINE NUMBERS AND BOILER NUMBERS

ENG.	BOILER
16	55460
17	55461
	44430
50	56303
51	56304
52	56305
53	56306
54	56307
55	56308
56	56309
57	56310
58	56311
59	56312
60	5564
61	5565
62	5566
63	5567
64	5568
65	5569

ENG.	BOILER
66	5570
67	5571
68	5572
69	5573
70	5676
71	5677
72	5678
73	5679
74	5680
75	5681
76	5682
77	5683
78	5684
79	5685
80	54064
81	54066
82	54082
94	53833
95	53834
96	53835

ENG.	BOILER
97	53836
98	53837
99	53838
103	4108
107	4112
114	GO-19366 No. 2
115	GO-19366 No. 1
121	28216
122	28217
152	30989
154	31013
155	31062
156	53830
157	53831
158	53832

ENG.	BOILER
160	6317
161	6318
162	6319
163	6320
164	64631
165	64632
166	64633
167	64634
168	64635
169	64636
170	67211
171	67212
172	67213
173	67214
174	7399
175	7400
176	7401
177	7402
200	5686
201	5687

ENG.	BOILER
202	5688
203	5689
204	5690
205	5903
206	5904
207	5905
210	6863
211	6864
212	6865
213	6866
214	6867
215	6868
216	6869
217	6870
218	6871
219	6872
220	6938
221	6939
222	6940
223	6941

ENG.	BOILER
224	6942
225	6943
226	6944
227	6945
228	6946
229	6947
300	7617
301	7618
302	7619
303	7620
304	7621
377	GO-8115 No. 2
379	29682
380	GO-11558- 24-No. 1
381	29684
	29685

ENG.	BOILER
384	GO-8115
	No. 1
385	GO-7754- 25 No. 1
389	29667
392	GO-11558- 24 No. 2
396	GO-7754- 25 No. 2
397	GO-6040
398	29675
408	1534
440	31339
446	45224
449	50030
451	50032
452	50033
454	53839
455	53840

N. K. P. — ENGINE NUMBERS AND BOILER NUMBERS

ENG.	BOILER
456	53841
457	53842
458	53843
475	49516
477	49518
478	49519
482	49523
484	49525
485	49501
486	49502
488	49504
490	49506
491	49507
492	49508
493	49509
497	51206
499	51208

ENG.	BOILER
500	5428
501	5429
502	5430
503	5431
504	5432
505	5433
506	5434
507	5435
508	5436
509	5437
510	57492
511	57493
512	57494
513	57495
514	57496
515	B 18477
516	57498
517	57499
518	57500
519	57501

ENG.	BOILER
520	57502
521	57503
522	57504
523	57505
524	57506
525	57507
526	57508
527	57509
528	57510
529	57511
530	57512
531	57513
532	57514
533	57515
534	57516
586	49682
587	49683
588	49684
589	49718
590	49719
591	49720

ENG.	BOILER
592	49721
593	49722
594	49723
595	49724
596	49725
597	49726
598	49727
599	49728
600	49729
601	59578
602	59579
603	59580
604	59581
605	59582
606	59583
607	59584
<del>608</del>	59585
609	59586
610	59587

ENG.	BOILER
611	6182
612	6183
613	6184
614	6185
615	6186
616	6187
617	6307
618	6308
619	6309
620	6310
621	6311
622	6312
623	6313
624	6314
625	6315
626	6316
627	6432
628	6433
629	6434

ENG.	BOILER
630	6435
631	6436
632	6635
633	6636
634	6637
635	6638
636	6639
637	6640
638	6641
639	6642
640	6643
641	6644
642	6645
643	6646
644	6647
645	6648
646	6649
647	6650
648	6651
649	6652

ENG.	BOILER
650	6653
651	6654
652	6655
653	6656
654	6657
655	6658
656	6659
657	6660
658	6661
659	6662
660	6663
661	6664
662	6853
663	6854
664	6855
665	6856
666	6857
667	6858
668	6859
669	6860



N. K. P. — ENGINES WITH FIREBAR GRATES AND DATE OF APPLICATION

ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE
<del>8</del>		68		97		160	11-17-'34	200		220	12-30-'33
9		69		98		161	5-9-'35	201		221	9-8-'33
50				99		162	11-13-'34	202		222	9-14-'33
51		70				163	9-11-'34	203		223	2-9-'34
52		71		103		164	11-30-'34	204		224	12-2-'33
53	3-12-'35	72		107		165	7-20-'34			225	11-26-'33
54	6-14-'35	73	8-29-'35			166	8-30-'34	205	10-9-'33	226	12-7-'34
55	2-28-'35	74		114		167	10-25-'34	206	8-21-'33	227	10-18-'33
56	6-28-'35	75		115		168	3-4-'35	207	11-2-'33	228	7-31-'34
57		76	2-23-'35	121		169	10-6-'34			229	12-30-'33
58	10-10-'35	77		122				210	1-8-'33		
59	6-14-'35	78				170	1-11-'34	211	11-18-'33	300	
		79		152		171	3-30-'34	212	11-2-'33	301	
60				154		172	6-26-'34	213	9-28-'33	302	
61		80	7-12-'35	155		173	7-20-'33	214	10-4-'33	303	
62		81	5-17-'35	156				215	2-23-'35	304	
63		82		157		174	5-23-'33	216	9-25-'33		
64				158		175	1-3-'34	217	9-8-'33	377	9-16-'33
65		94				176	4-25-'33	218	8-31-'33	379	
66	2-15-'35	95				177	9-15-'33	219	8-31-'33	380	9-30-'33
67		96								381	
											440
											446
											449
											451
											452
											454
											455

1-11-1938

N. K. P. — ENGINES WITH FIREBAR GRATES AND DATE OF APPLICATION

ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE	ENG.	DATE
456		500	9-6-'33	520		592	7-30-'33	611	10-5-'33	630	9-13-'33	650	5-31-'33
457		501	9-28-'33	521	2-7-'34	593	6-19-'33	612	9-1-'33	631	12-20-'33	651	5-31-'33
458		502	8-16-'35	522	9-12-'33	594	8-23-'33	613	9-12-'33			652	9-21-'33
		503		523	2-9-'34	595	6-7-'33	614	10-31-'33	632	2-27-'32	653	1-27-'34
475		504	9-8-'34	524	1-5-'35	596	7-7-'33	615	11-9-'33	633	9-5-'33	654	5-14-'34
477		505	1-16-'34	525	12-22-'33	597	9-22-'33			634	7-14-'33	655	9-20-'33
478		506	1-18-'35	526	9-12-'33	598	8-4-'33	616	4-25-'33	635	1-17-'34	656	9-9-'33
482		507	1-4-'34	527		599	6-3-'33			636	8-22-'33	657	4-30-'34
484		508	11-3-'33	528	8-2-'35	600	7-26-'33	617	4-16-'34	637	4-10-'33	658	5-4-'33
		509		529	3-7-'35			618	10-17-'33	638	8-24-'33	659	8-11-'33
485				530	10-6-'35	601	12-30-'33	619	10-17-'33	639	8-24-'33	660	10-11-'33
486		510	9-12-'33	531	3-15-'34	602	1-12-'34	620	11-28-'33	640	11-28-'33	661	6-25-'34
488		511		532		603	6-3-'33	621	5-1-'33	641	2-18-'32		
490		512	1-18-'34	533		604	9-8-'33	622	8-11-'33	642	11-16-'32	662	1-12-'30
491		513	1-31-'34	534	4-3-'36	605	6-15-'33	623	10-31-'33	643	4-13-'33	663	8-31-'33
492		514	9-22-'33	586	4-5-'34	606	7-8-'33	624	5-10-'34	644	1-26-'34	664	11-11-'33
493		515	12-13-'33	587	6-14-'33	607	6-2-'33	625	10-1-'33	645	9-2-'33	665	12-13-'33
		516		588	10-6-'33	<del>608</del>	9-16-'33	626	8-31-'33	646	11-9-'33	666	5-22-'33
497		517	9-8-'33	589	7-1-'33	609	9-30-'33	627	10-27-'33	647	11-30-'34	667	12-6-'33
499		518	12-15-'33	<del>590</del>	8-29-'33	610	4-15-'34	628	9-21-'32	648	11-21-'33	668	2-8-'34
		519		591	7-28-'33			629	12-15-'33	649	12-29-'33	669	5-26-'34

1-11-1938



NICKEL PLATE  
ROAD