

DIAGRAMS OF ROLLING STOCK

R.S. ENGINEER ... ROOM 135

UPRS:

12851/P0000

Unit:

000001



4006130710

— VICTORIAN RAILWAYS —

ROLLING STOCK BRANCH

DIAGRAMS & PARTICULARS

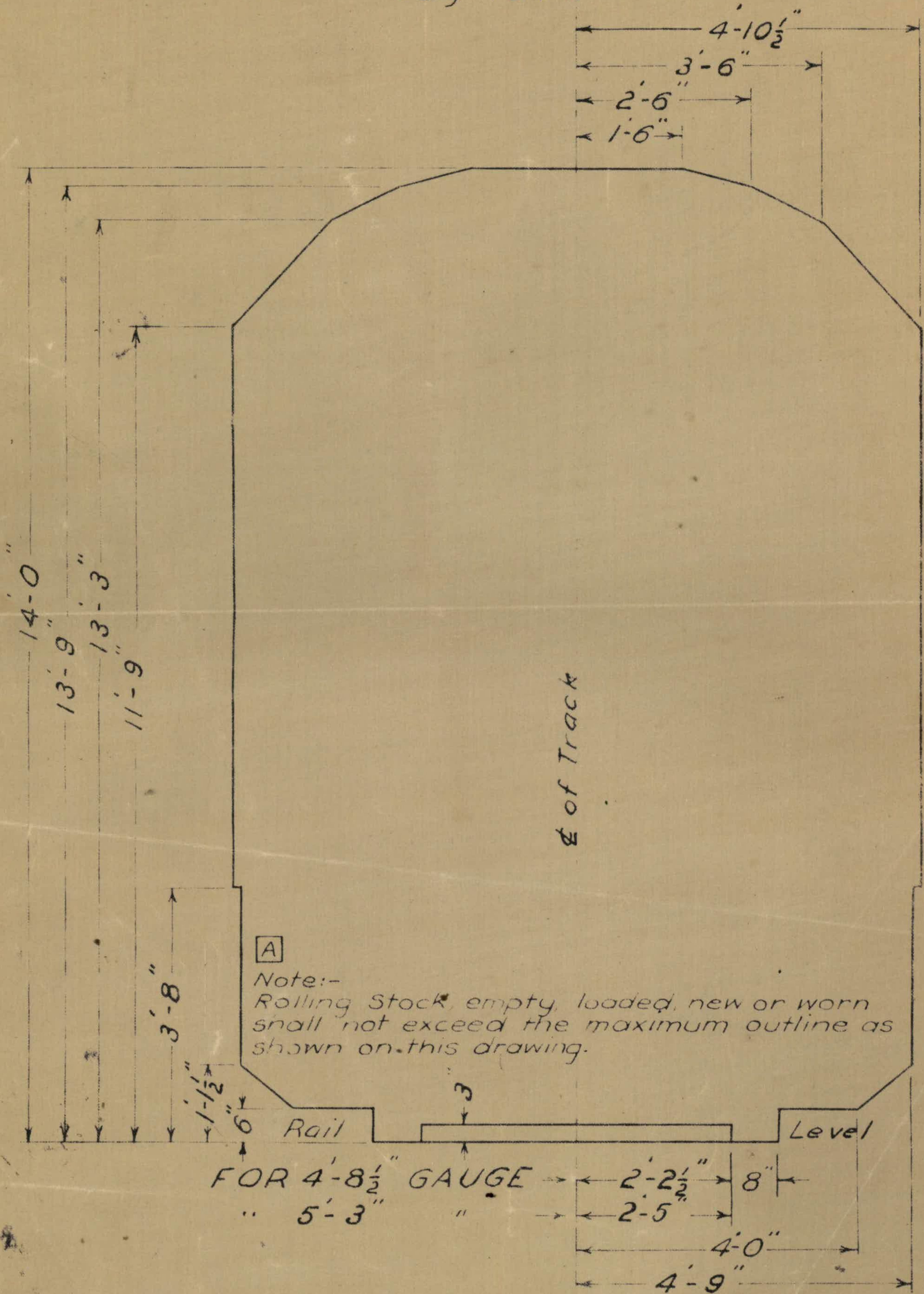
OF

ROLLING STOCK

LOCOS
&
CRANES

V. R.
R. S. B.

MAXIMUM ROLLING STOCK GAUGE
Appendix "A" to Minute N° 3718 of
Special Conference of Railway Commissioners
July 1944.



DRG. N° 9494

A	Note added	15.6.49	J.S.	
Letter	Amendment	Date	Initials	Corres

Traced from Conference Print

10-7-44

LIST OF A² WALSCHAERT LOCOMOTIVES.

15th July, 1953.

22" Diam. Cylinders.

Loco. No.	Manufactured	Scrapped	Loco. No.	Manufactured	Scrapped	Loco. No.	Manufactured	Scrapped
940	N 7/'18	23. 7. 54.	962	N 12/'20	3. 2. 56	984	N 11/'15	12. 5. 54.
941	N 8/'18		963	N 3/'21	22. 3. 56.	985	N 11/'15	29. 5. 53
942	N 9/'18	24. 1. 57.	964 ✓	N 4/'21		986 ✓	N 11/'15	
943	N 10/'18	27. 8. 56.	965	N 5/'21	26. 3. 54.	987	N 11/'15	26. 11. 54
944	N 11/'18	12. 11. 54	966	N 5/'21	19. 3. 54.	988	N 12/'15	1. 3. 57.
945	N 12/'18		967	N 6/'21	8. 7. 55.	989	N 12/'15	25. 11. 54
946	N 2/'19	9. 10. 53.	968	N 7/'21	7. 10. 55	990	N 1/'16	
947	N 3/'19	9. 4. 62	969	N 7/'21	6. 1. 53	991	N 3/'16	5. 6. 53
948	N 4/'19	18. 9. 52	970	N 8/'21	3. 8. 46	992	N 8/'16	7. 8. 53
949	N 5/'19	15. 10. 54.	971	N 9/'21	5. 1. 60	993	N 4/'16	12. 6. 59
950	N 6/'19	17. 2. 55.	972	N 9/'21	5. 3. 54.	994	N 5/'16	
951	N 6/'19	5. 5. 54.	973	Ba 9/'21	22. 2. 57.	995 ✓	N 5/'16	13. 9. 63
952	N 8/'19	30. 4. 54.	974	Ba 11/'21	25. 9. 58	996 ✓	N 6/'16	
953	N 5/'20	4. 9. 52	975	Ba 2/'22	24. 1. 50	997	N 6/'16	12. 1. 53
954	N 7/'20	6. 4. 55.	976	Ba 4/'22	19. 2. 57.	998	N 5/'18	4. 8. 47
955	N 8/'20	9. 3. 61	977	Ba 6/'22	4. 1. 52	999	N 6/'18	15. 4. 54.
956	N 8/'20	3. 8. 46	978	Bg 11/'21				
957	N 9/'20	10. 7. 53	979	Bg 12/'21	20. 11. 53			
958	N /'21	4. 1. 52	980	Bg 3/'22	5. 11. 54			
959	N 10/'20	22. 10. 54	981	Bg 6/'22	10. 9. 54			
960	N 11/'20	24. 6. 54.	982	Bg 6/'22				
961	N 12/'20	27. 2. 53	983	N 10/'15	14. 6. 55			

Total built = 60

ENGINE

VALVE GEAR

BOILER

TENDER

Numbers of Locomotives

Cylinders (2) 22" x 26"
 Tractive Effort (85%) 27,480
 Factor of Adhesion 4.24

Walschaert
 Piston Valves 10"
 Travel $4\frac{5}{8}"$ Lap $1\frac{1}{16}"$
 Lead $\frac{1}{4}"$

Work Press 185 lb. per sq in.
 Grate Area 29 sq ft
 Heating Surface Sq Ft
 Firebox 145
 Tubes & Flues 1564
 Superheater 331
2040

Oil 1500 Galls.
 Water 4700 Galls.

Built at Newport Workshops
 1915-1921
 940 to 972 inclusive
 983 to 999 "

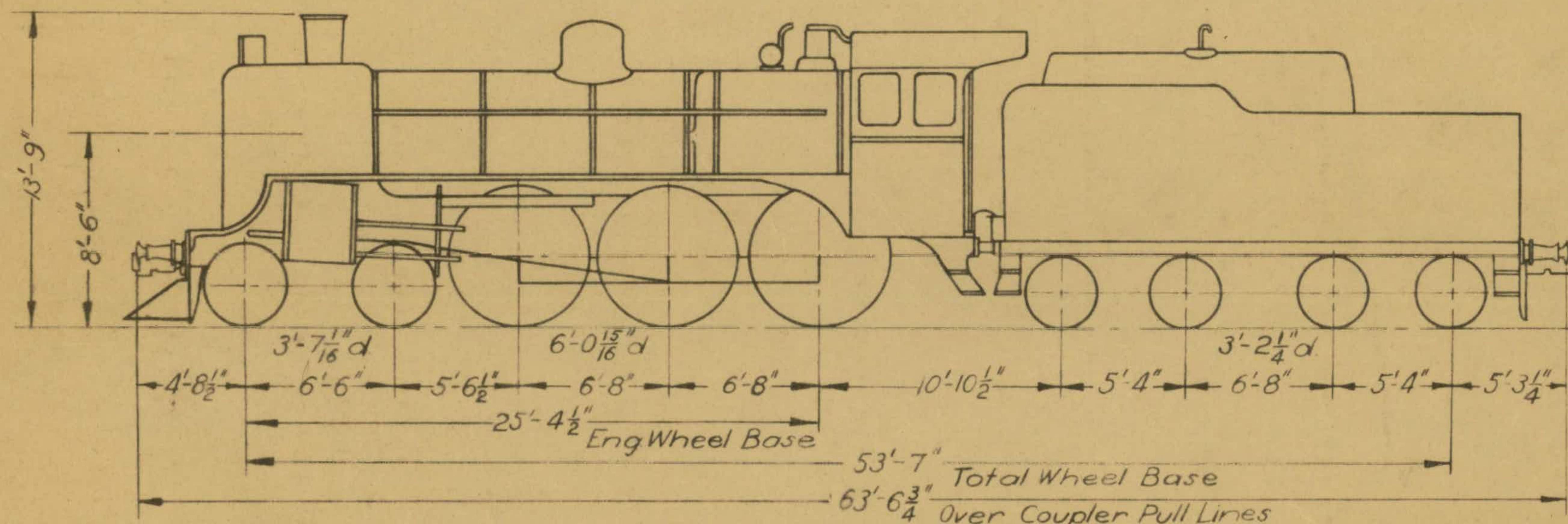
Built at Ballarat Workshops
 1921-1922
 973 to 977 inclusive

Built at Bendigo Workshops
 1921-1922
 978 to 982 inclusive

Total Built = 60

Scrapped. 956, 970, 998, 975,
 948, 953, 958, 977, 969, 997,
 961, 985, 991, 957, 992, 979, 946,
 999, 981, 949, 950, Moriac Collision 1952
 984, 960, 960, 965, 940, 951
 972, 944, 959, 987, 989, 980
 983, 962, 963, 952, 954, 967,
 968, 943, 942, 973, 976, 988,
 945, 949, 964, 982

Serviceton Collision 1951



Weight
 Roadworthy

10-2-2

10-2-2

17-10-0

17-4-0

17-8-0

11-9-0

11-9-0

13-1-0

13-1-0

44-9-6

Scrapped 38 30 34

Total 30 38 36

Engine 72-7-0

Tender 49-0-0

Total T C Q
 121-7-0

All converted to oil burning 1945-46

Weight
 Empty

Engine 66-4-0

Tender 22-0-0

Total T C Q
 88-4-0

VICTORIAN RAILWAYS

LOCO CLASS **A²** WALSCHAERT
 OIL BURNING

Date: 4-6-52

LIST OF A² STEPHENSON LOCOMOTIVES.

15th July, 1953.

21" Diam. Cylinders.

Loco. No.	Manufactured	Scrapped	Loco. No.	Manufactured	Scrapped	Loco. No.	Manufactured	Scrapped
816	N 12/'10	21.4.55.	840	N 12/'14	25.5.54.	864	N 9/'11	2.4.54.
817	N 3/'13	30.10.53	841	N 7/'13	19.10.59	865	N 10/'11	29.9.56.
818	N 5/'11	13.2.53	842	N 9/'12	26.8.53	866	N 12/'14	12.5.53
819	N 2/'14	.7.53	843	N 11/'14	15.6.53	867	N 3/'10	30.4.53
820	N 10/'12	18.6.53	844	N 10/'14	5.6.56.	868	N 1/'14	12.5.53
821	N 10/'13	9.10.53	845	N 12/'08	27.10.54	869	N 11/'08	13.11.52
822	N 1/'15	27.2.61	846	N 9/'13	23.7.54.	870	N 3/'09	
823	N 7/'14		847	N 11/'14	23.1.53	871	N 8/'11	25.1.51
824	N 2/'11	8.12.50	848	N 8/'14	24.11.53	872	N 9/'11	18.9.53
825	N 12/'07	17.9.54	849	N 5/'10	13.3.53	873	N 8/'11	28.7.55.
826	N 8/'11		850	N 8/'14	15.5.53	874 ✓	N 8/'14	8.2.63
827	N 12/'08	1-7.60	851	N 3/'11	21.12.55	875	N 6/'10	30.9.54.
828	N 12/'13	31.10.60	852	N 5/'10	6-8-54	876	N 1/'11	31.10.60
829	N 6/'10	14.5.52	853	N 6/'11	17.4.53	877	N 9/'12	8.1.54
830	N 8/'13	1.7.53	854	N 3/'09	20.4.51	878	N 10/'08	7.5.54.
831	N 11/'13	24.4.53	855	N 3/'11	2.7.56	879	N 9/'13	26.3.54.
832	N 10/'13	26.6.53 14.9.53	856	N 4/'11	30.8.51	880	N 3/'15	19.1.53
833	N 4/'09	9.12.54.	857	N 3/'13	16.1.53	881	N 4/'11	9-10-59
834	N 2/'14		858	N 9/'11	30.7.53	882	N 4/'10	13.11.52
835	N 11/'14	13.1.51	859	N 2/'15	9.4.51	883	N 2/'10	
836	N 1/'14	21.3.56.	860	N 11/'13	17.4.53	884 ✓	N 8/'13	20.8.63
837	N 10/'08	4.1.52	861	N 4/'09	17.4.53	885	N 2/'11	30.7.54.
838	N 6/'10	3.3.51	862	N 9/'14	29.8.52	886	N 3/'11	28.2.56.
839	N 2/'14	12.2.1954	863	N 3/'10	18.12.53	887	N 2/'10	10.2.54

LIST OF A² STEPHENSON LOCOMOTIVES
21" Diam. Cylinders.

15th July, 1953.

Loco No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped	Loco No.	Manufac- tured	Scrapped
888	N 10/'14	21. 11. 55.	910	N 3/'13	8. 2. 57.	933	N 2/'14	27. 11. 53
889	N 3/'15	12. 6. 56	911	N 8/'13	17. 2. 50	934	N 1/'15	8. 10. 54
890	N 9/'12	28. 9. 50	912	N 8/'13	18. 9. 53	935	N 2/'15	24. 11. 54.
891	N 10/'12	12. 12. 52	913	N 4/'13	6. 2. 53	936	N 2/'15	3. 5. 54
892	N 10/'12	13. 10. 52	914	N 4/'13	26. 10. 53.	937	N 2/'15	19. 1. 55.
893	N 10/'12	14. 5. 54.	915	N 8/'14	20. 1. 55.	938	N 3/'15	27. 1. 61
894	N 11/'12	22. 11. 56.	916	N 9/'13	3. 8. 46	939	N 3/'15	16. 6. 54
895	N 11/'12	4. 9. 51	917	N 9/'13	7. 11. 52			
896	N 11/'12	20. 3. 53	918	N 10/'13	19. 6. 53			
897	N 11/'12	15. 12. 53	919	N 10/'13	19. 2. 54.			
898	N 6/'11	7. 11. 52	920	N 10/'14	1. 6. 53			
899	N 12/'12	26. 9. 51	921	N 10/'13	24. 3. 53			
900	N 7/'11	3. 9. 51	922	N 10/'14	31. 3. 54.			
901	N 12/'12	31. 5. 51	✓ 923	N 10/'14	31. 10. 60			
902	N 12/'12	22. 4. 54.	924	N 11/'14	10. 4. 53			
903	N 12/'12	27. 1. 56	925	N 11/'13	2. 10. 53.			
904	N 1/'13	31. 7. 47	926	N 11/'13	19. 2. 51			
905	N 2/'13	9. 12. 53.	927	N 12/'13	15. 11. 54			
906	N 2/'13	29. 1. 54	928	N 12/'14	1. 6. 56.			
907	N 2/'13	8. 6. 53	929	N 12/'14				
908	N 2/'13	7. 7. 51	930	N 12/'13	4. 12. 53.			
909	N 8/'13	12. 1. 55.	931	N 12/'14	12. 10. 53.			
			✓ 932	N 12/'13	27. 3. 62			
						Total Built 124 .		

ENGINE

VALVE GEAR

BOILER

TENDER

Numbers of Locomotives.

Cylinders (2) 21" x 26"
 Tractive Effort (85%) 27,070 lb.
 Factor of Adhesion 4.24

Stephenson
 Piston Valves 10"
 Travel $4\frac{5}{8}"$ Lap $1\frac{1}{16}"$
 Lead $\frac{1}{8}"$

Work. Press. 200 lb. per sq. in.
 Grate Area 29 sq. ft.
 Heating Surface Sq. ft.
 Firebox 145
 Tubes & Flues 1,568
 Superheater 341
2,054

Fuel 120 Cwt
 Water 4,700 Gall.

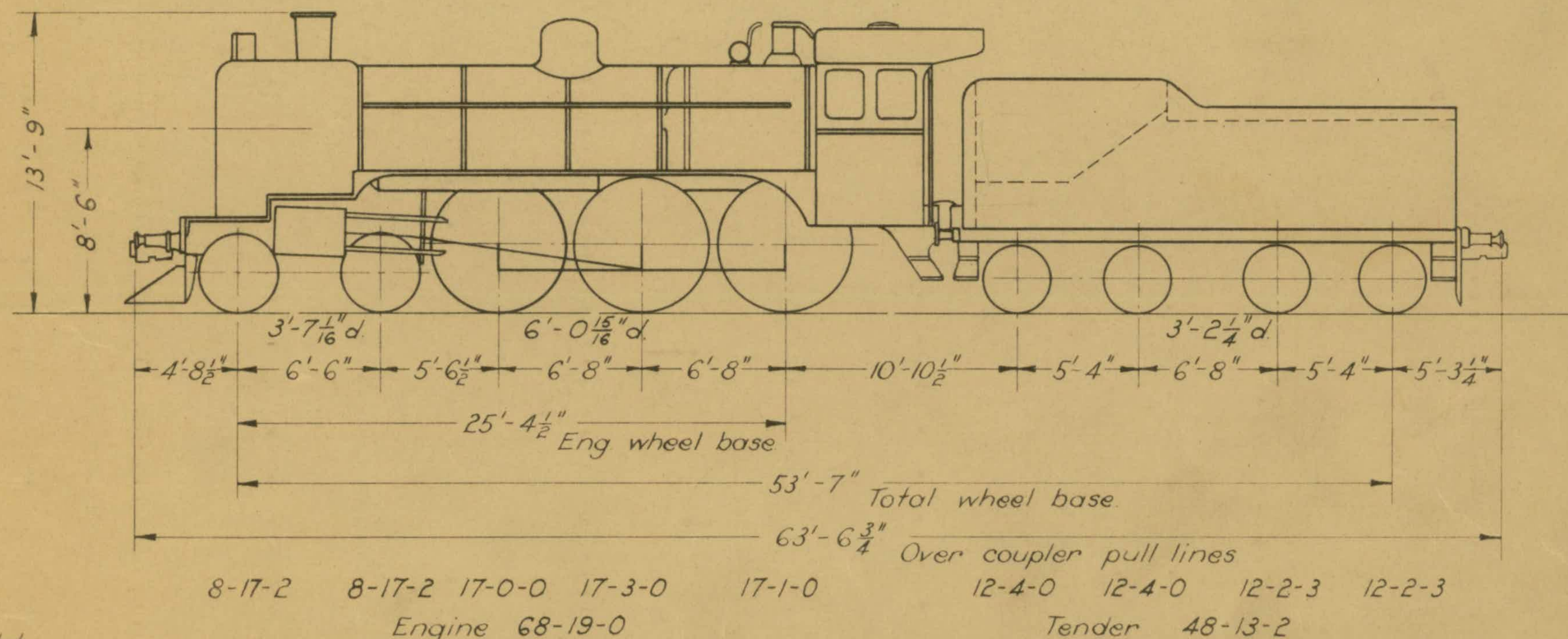
Built at Newport Workshops
 1907-1915
 816 to 939 inclusive

Total Built 124

Scrapped ~~61~~ 90-91-92-93

Total 42 ~~34~~ ~~33~~ ~~31~~

~~30~~ ~~29~~ ~~28~~ ~~27~~ ~~24~~
~~20~~ ~~19~~ ~~18~~ ~~17~~ ~~15~~ ~~14~~
 12 9 8 7



Weight
 Roadworthy

Weight
 Empty

Engine 62-10-0

Total $\begin{matrix} T & C & Q \\ 117 & 12 & 2 \end{matrix}$
 Total $\begin{matrix} T & C & Q \\ 84 & 3 & 2 \end{matrix}$

Tender 21-13-2

VICTORIAN RAILWAYS

LOCO CLASS A² STEPHENSON

Date 14-7-53

GENERAL

Tractive Effort Starting 60,000 lb
 Tractive Effort Continuous 40,000 lb
 Speed Continuous 11 mph
 Speed Maximum 83 mph

ENGINE

Type GM Diesel 16-567B Two Stroke
 Rated HP 1500
 Cylinders (16) 8½" bore x 10" stroke
 Speed 275 to 800 rpm

ADHESION

Traction 29.2% Nominal Static
 Load 18-12-0

ELECTRICAL MACHINES

Main Generator type EMD D-12
 Continuous Rating 2200 Amps
 Auxiliary Generator type EMD
 Constant Voltage 74 v 10 Kw
 Traction Motors (6) type EMD D-27

Gear Ratio 59/18

MOTOR GROUPS

Series - Parallel, Parallel groups of
 motor nos. 1&6, 2&3, 4&5
 Parallel, all motors in parallel

CAPACITIES

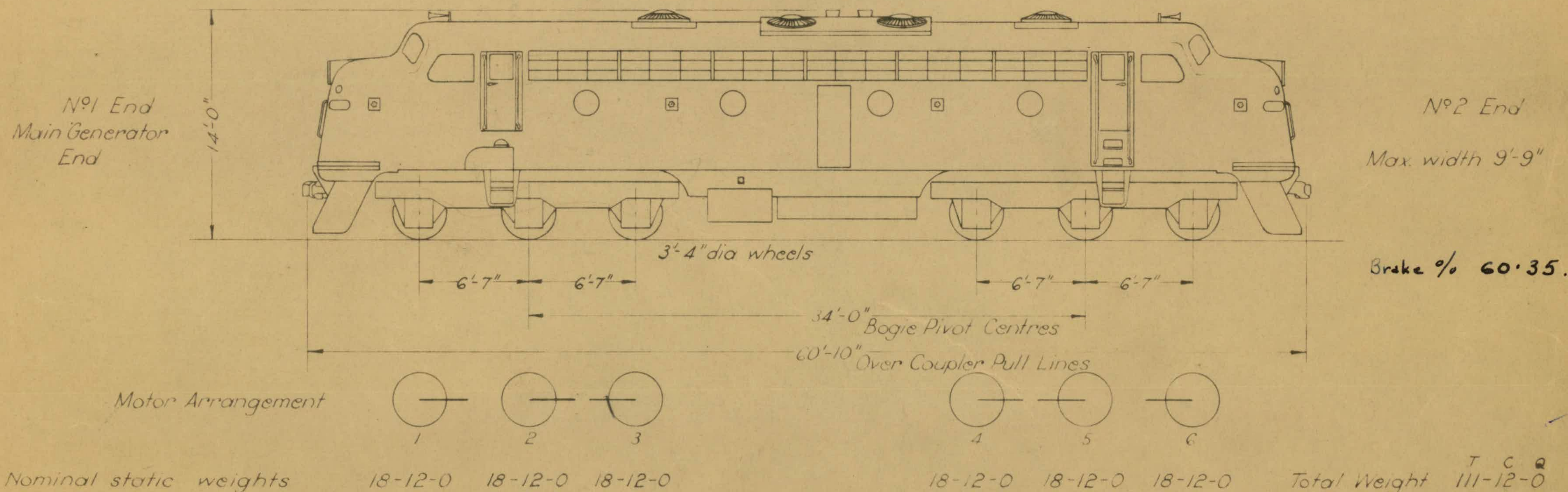
Fuel Oil 1000 galls
 Lubricating Oil 165 "
 Cooling Water 185 "
 BATTERIES

64 Volts 480 A.H.

Numbers of Locomotives

Built by Clyde Engineering Co Pty Ltd
 1952-53 Nos. 60 to 85

Total 26



VICTORIAN RAILWAYS

LOCO
 CLASS

B

MAIN LINE
 DIESEL ELECTRIC

Date: 4-6-52

LIST OF 'C' CLASS LOCOMOTIVES

19th July, 1954.

Loco. No.	Manufactured	Scrapped	Loco. No.	Manufactured	Scrapped
1	Newport 1918		14	Newport 1922	
2	" 1921	9 . 4 . 57.	15	" "	2 - 12 - 60
3	" "	29 - 1 - 60	16	" 1923	30 . 6 . 55.
4	" "	10 - 11 - 60	17	" "	8 . 12 . 55.
5	" "	22 . 10 . 56.	18	" 1924	4 . 6 . 54
6	" 1922		19	" "	21 . 3 . 55
7	" "		20	" "	24 . 10 . 61
8	" "	21 - 4 - 61	21	" 1926	21 . 12 . 56 .
9	" "	22 . 6 . 56	22	" "	7 . 8 . 54.
10	" "	26 . 7 . 57.	23	" "	3 - 7 - 59
11	" "		24		
12	" "		25		
13	" "		26		
			TOTAL - 26 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5		

B12W
19361

ENGINE

VALVE GEAR

BOILER

TENDER

Cylinders (2) 22"d. x 28"
Tractive Effort (85%) 38,400 lb.
Factor of Adhesion 4.26

Walschaert
Piston Valves 10"
Travel 4 5/8"
Lap 1 1/16"
Lead 1/4"

Work Press 200 lb. per sq. in.
Grate Area 32 sq. ft.
Heating Surface Sq. Ft.
Firebox 175
Tubes & Flues 1915
Superheater 327
2417

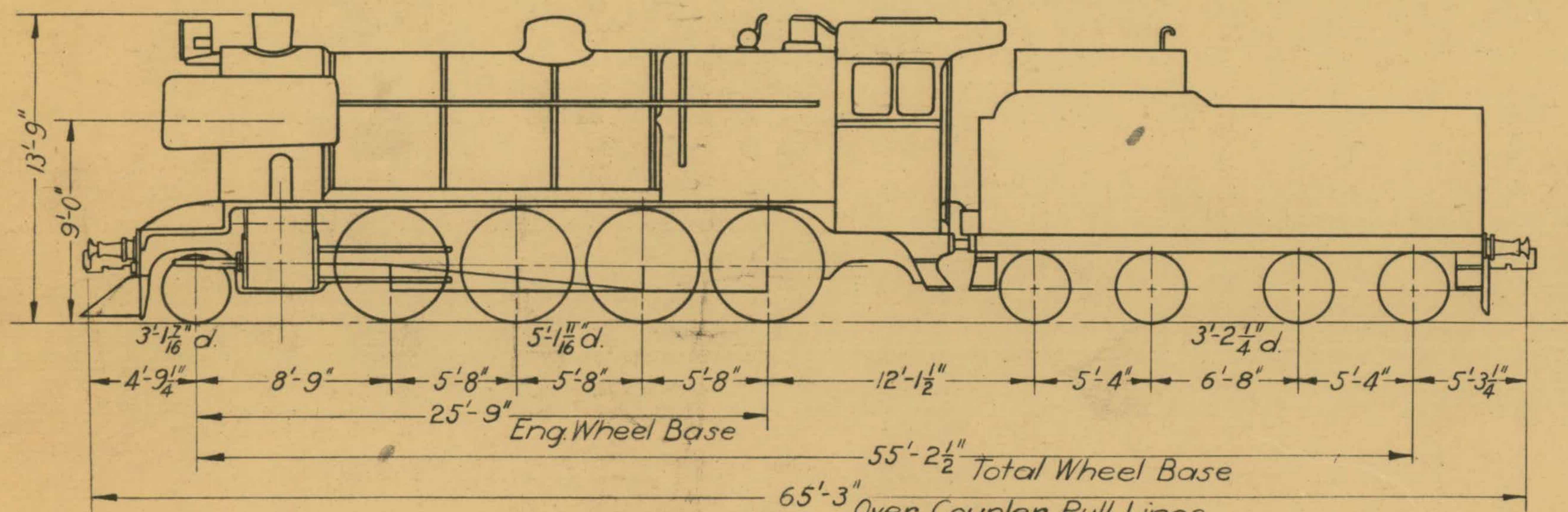
Oil 1500 Galls.
Water 4700 Galls.

Numbers of Locomotives.

Built at Newport Workshops

No.	in 1918	No.	in 1923
2	1921	17	"
3	"	18	"
4	"	19	1924
5	"	20	"
6	"	21	"
7	1922	22	1926
8	"	23	"
9	"	24	"
10	"	25	"
11	"	26	"
12	"		
13	"		
14	"		
15	"		
Total		24	23 22 21 20

Converted to oil burning 1946-49
19, 18, 17, 16, 15, 14, 13, 12, 11, 10
~~10~~ ~~9~~ ~~8~~ ~~7~~



Weight Roadworthy	9-12-0	17-5-0	18-5-0	17-18-0	18-10-0	11-5-0	11-5-0	12-5-0	12-5-0
		Engine 81-10-0				Tender 47-0-0			
		Total 128-10-0							
Weight Empty		Engine 72-0-0				Tender 20-2-0			
		Total 92-2-0							

VICTORIAN RAILWAYS

LOCO CLASS C OIL BURNING

Date: 4-6-52

LIST OF D¹ CLASS LOCOMOTIVES.

15th July, 1953.

Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped
560	N. 1907	22. 4. 55.						
561	" 1904	21. 5. 56.						
562	Thom. 1916	6. 11. 53.						
563	" 1916	7. 2. 55.						
564	" 1915							
565	" 1916	19- 3- 59						
566	" 1915	20. 2. 57.						
567	" 1916							
568	N. 1915	13- 8- 54						
569	" 1912	27. 1. 56.						
570	" 1915	1- 9- 60						
571	Bald. 1912 U.S.A.	6. 11. 53.						
572								
573								
574	" 1912	10. 2. 56.						
575	" 1912	8. 4. 54.						
576	Thom. 1917	29. 6. 59						
577								
578	Bey. P. 1912	9. 11. 60						
579	Bald. 1912 U.S.A.	4. 1. 52						

Note:

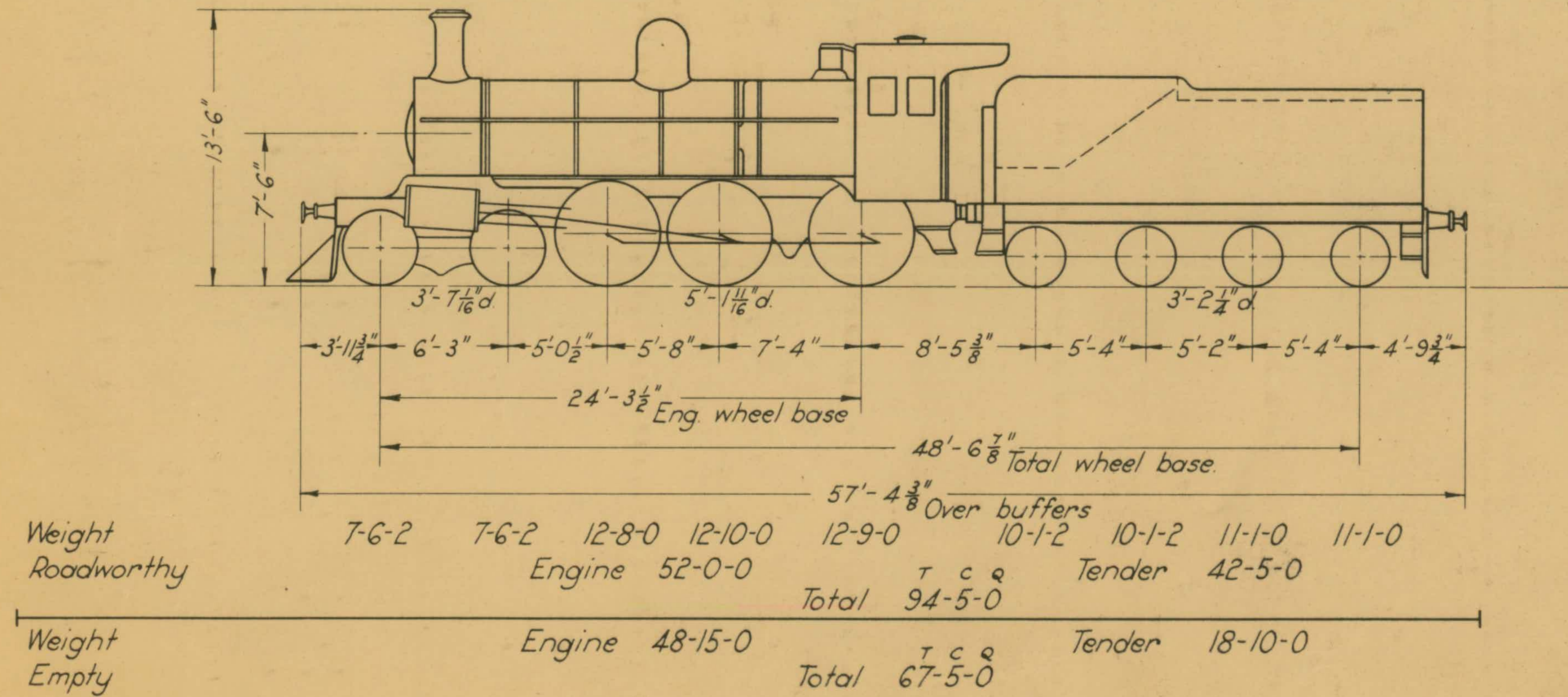
N indicates Newport
Thom " Thompsons.
Bald. " Baldwins.
Bey. P. " Beyer Peacock.

ENGINE	VALVE GEAR	BOILER	TENDER
Cylinders (2) 18"x 26"	Stephenson	Work. Press. 185 lb. per sq. in.	Coal 100 Cwt.
Tractive Effort (80%) 20,780 lb	Piston Valves 8"	Grate Area 22.5 sq. ft	Water 4,200 Gall.
Factor of Adhesion 4.03	Travel $4\frac{1}{8}$ " Lap 1"	Heating Surface Sq. Ft.	or
	Lead $\frac{1}{8}$ "	Firebox 113	Coal 120 Cwt.
		Tubes 1,267	Water 4,000 Gall.
		1,380	

Numbers of Locomotives

560,	561,	562,	563,
564,	565,	566,	567,
568,	569,	570,	571,
574,	575,	576,	578.

Total 72 11-10, 9-8
7, 6, 4 3



LIST OF D² CLASS LOCOMOTIVES.

15th July, 1953.

Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped
580	Thom. 1915	24.8.54	598	Thom. 1916	25.2.55.			
581			599	N. 1905	6-8-59			
582	" 1916	14-8-53	600	Thom. 1915	19-8-60			
583			601	N. 1912	29.10.54			
584			602	" 1915	27.1.56.			
585			603	Thom. 1915	7.4.54.			
586	N. 1915	13.8.56.	604	Bey.P.1912	Sold To A.P.M. 21-2-56			
587								
588								
589	N. 1912	15.2.55						
590	" 1905	25.11.55.						
591	" 1914							
592	" 1908	10.6.54						
593	Bey.P.1912							
594			Note:- N indicates Newport Thom. " Thompsons Bey.P. " Beyer Peacock					
595	" " 1912	24.10.60						
596	Thom. 1916							
597	" 1917	1.6.55						

ENGINE

VALVE GEAR

BOILER

TENDER

Numbers of Locomotives

Cylinders (2) 18"x26"
 Tractive Effort (85%) 22,080 lb.
 Factor of Adhesion 3.98

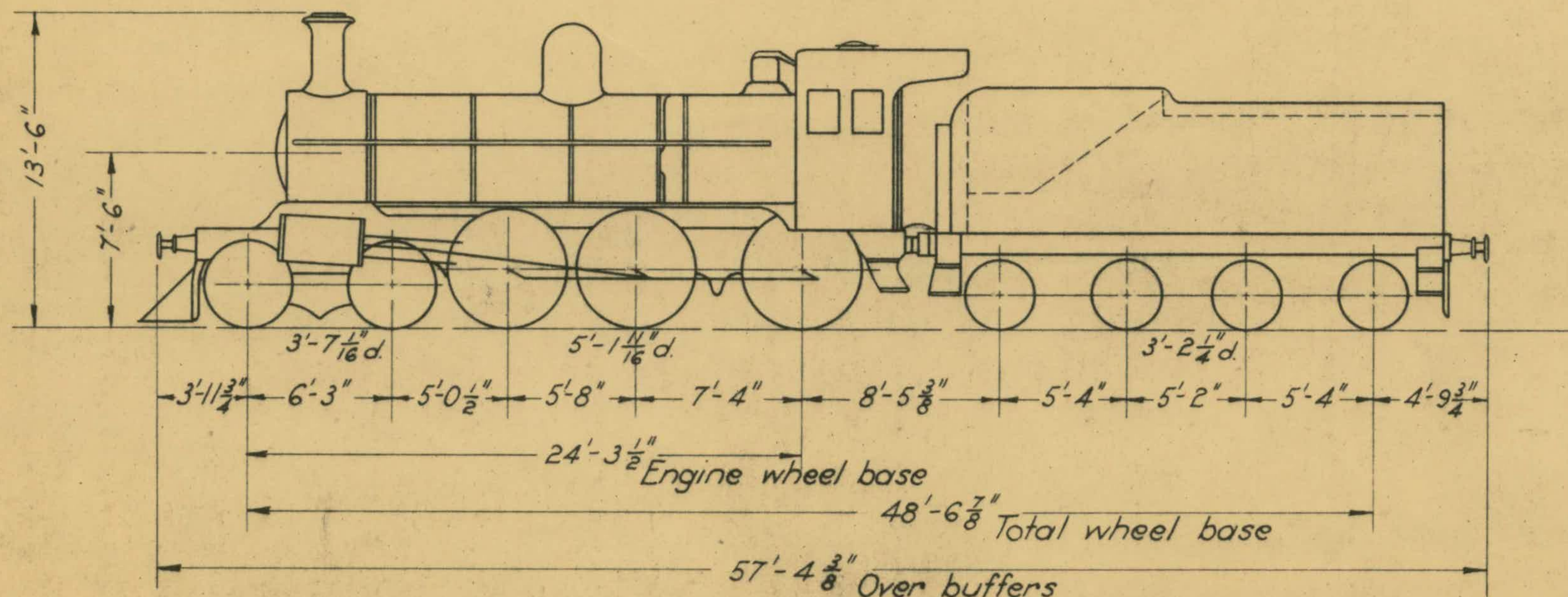
Stephenson
 Piston Valves 8"d
 Travel $4\frac{1}{8}$ " Lap 1"
 Lead $\frac{1}{8}$ "

Work. Press. 185 lb per sq. in.
 Grate Area 25.5 sq. ft.
 Heating Surface Sq. Ft.
 Firebox 113
 Tubes & Flues 1,040
 Superheater 195
1,348

Coal 100 Cwt
 Water 4,200 Galls.
 or
 Coal 120 Cwt
 Water 4,000 Galls.

~~580, 586, 589, 590,~~
~~591, 592, 593, 595,~~
~~596, 597, 598, 599,~~
~~600, 601, 602, 603,~~
 604.

Total ~~12~~ ~~10~~ ~~9~~ ~~8~~
~~4, 6, 5, 4, 3~~



Weight Roadworthy	7-17-0	7-17-0	13-1-0	13-2-0	13-1-0	10-1-2	10-1-2	11-1-0	11-1-0
			Engine	54-18-0		Tender	42-5-0		
			Total	97-3-0					
Weight Empty			Engine	51-7-0		Tender	18-10-0		
			Total	69-17-0					

VICTORIAN RAILWAYS

LOCO CLASS D²

Date: 20-7-53

LIST OF D⁴ LOCOMOTIVES.

16th July, 1953.

Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped
250	N. 1911	18. 5. 55.	268	N. 1910		285	N. 1909	22. 2. 62
251	" 1911	12. 6. 57	269			286		
252	" 1911	28. 4. 54.	270					
253	" 1911	24. 5. 54	271	" 1913	22. 6. 60			
254			272					
255			273					
256	" 1909	11. 8. 54.	274	" 1909	7-2-61			
257	" 1909	7. 12. 54.	275					
258	" 1911	1. 12. 55	276					
259			277	" 1910	12. 12. 54.			
260	" 1911	26. 7. 60	278	" 1911	10. 1. 56			
261	" 1909	19. 7. 54.	279	" 1913	22. 1. 54.			
262	" 1913	17. 6. 54.	280	" 1913	14. 12. 56. 20. 2. 57.			
263	" 1909	30. 10. 56	281					
264	" 1913	28. 8. 53.	282		19" Cyls.			
265	" 1909	9. 11. 56.	283					
266	" 1913	23. 2. 54	284	" 1912	29. 4. 55			
267	" 1909							

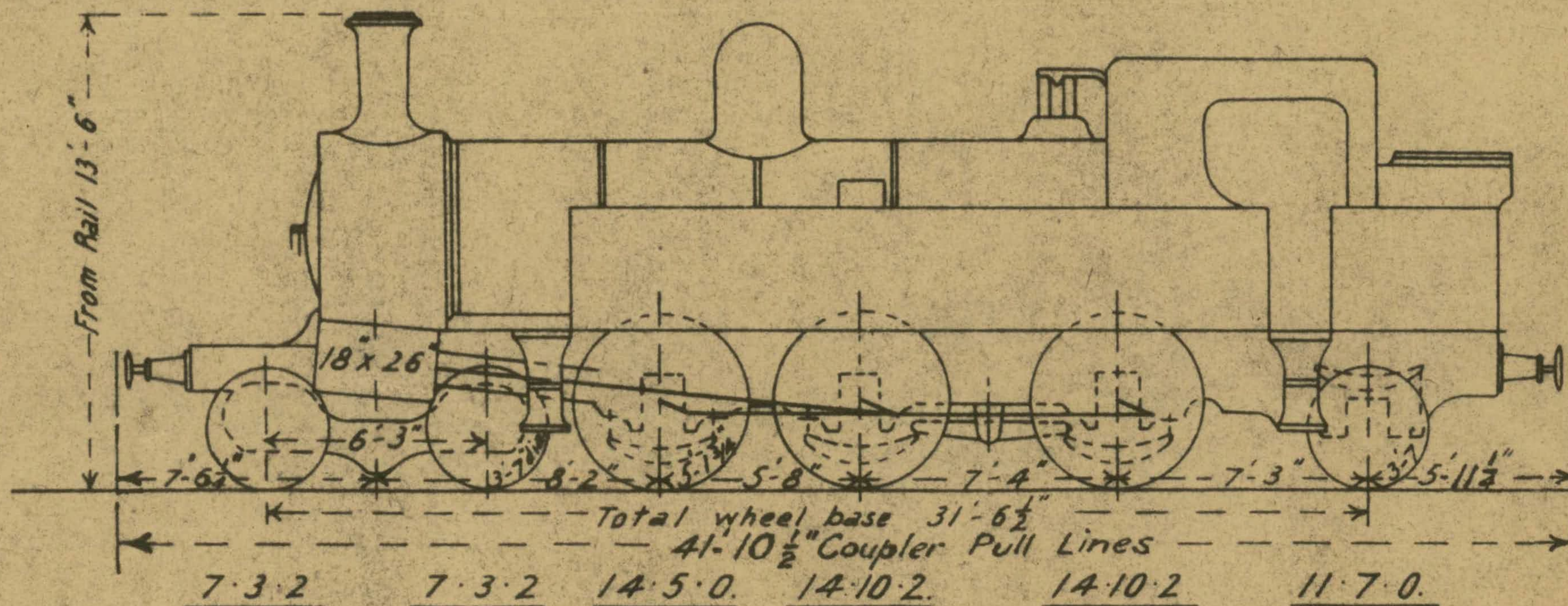
CLASS

D⁴

HEATING SURFACE
Firebox.....113
Tubes.....1268
Total.....1381

Grate Area
22.5

TENDER CAPACITY
Water....1700 Gallons
Fuel.....55 Cwt.



Total weight (roadworthy.)

T.C.Q.

69.0.0

" " (empty.)

54.13.0

Tractive power 20,780 lbs. (185 lbs press^{re}) (80%)

Built at Newport Workshops 1908 - 13 Nos ~~250~~, 251, ~~252~~, ~~253~~, 256, ~~257~~, ~~258~~, ~~260~~,
261, ~~262~~, ~~263~~, ~~264~~, ~~265~~, ~~266~~, 267, 268, 271, 274, ~~277~~, ~~278~~, ~~279~~,
~~280~~, ~~284~~, ~~285~~,

Total ~~24~~ 12 + ~~10~~ 8. ~~7~~ 5

LIST OF E CLASS LOCOMOTIVES.

16th July, 1953.

Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped	Loco. No.	Manufac- tured	Scrapped
236 ¹	Mun. 1893	STORED NEWPORT FOR HISTORICAL PURPOSES	✓ 371	Mun. 1892				
353	Ph. 1893	12. 7. 54.	372	" 1893				
355	" 1893	10. 12. 56.	373	" 1893	20. 2. 56 ?			
357	" 1893		374	Ph. 1890	4. 4. 62			
369	Mun. 1892		375	Mun. 1894	21. 6. 55.			
350	Ph. 1892	17. 11. 53.	376	Ph. 1890	22. 2. 55.			
351	" 1892	14. 4. 54.	377	" 1892				
352	" 1893	9. 7. 54	378	" 1890	30. 7. 51			
356	" 1893	21. 5. 54	379	Mun. 1894				
361	Mun. 1892	17. 5. 54.	380	Ph. 1889	6-7-59			
362	Ph. 1890	12. 10. 54	381	" 1893	4. 6. 54.			
363	Mun. 1892	28. 1. 55	390	" 1890	14. 1. 55.			
364	Ph. 1890	26. 1. 55						
365	Mun. 1892	14. 7. 54.						
366	" 1892	5. 9. 56.	Note:- Mun. Indicates D. Munro Ph. " Phoenix					
367	" 1892							
370	Ph. 1890	20-3-59						

CLASS

E

HEATING SURFACE

Firebox..... 83 40
Tubes..... 988 68
Total..... 1072 08

CAPACITY

Water..... 1600 Gall.
Fuel..... 50 Cwt.

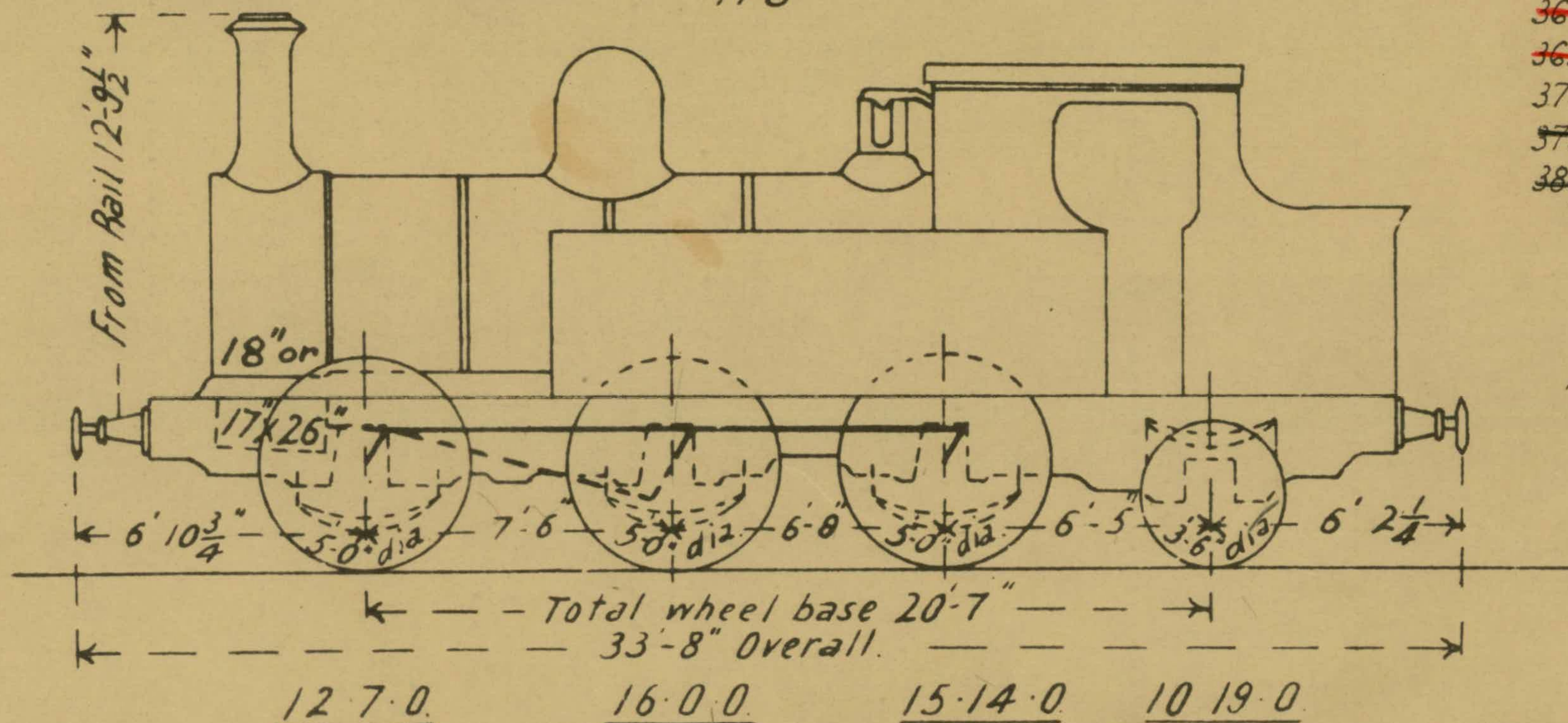
Grate Area.
17 8

Numbers of Locomotives

17" Cylinders:
~~353, 355, 357, 369,~~
Total ~~4, 3, 2,~~

18" Cylinders:
~~350, 351, 352, 356,~~
~~361, 362, 363, 364,~~
~~365, 366, 367, 370,~~
~~371, 372, 373, 374,~~
~~375, 376, 377, 379,~~
~~380, 381, 390,~~
Total ~~23 15 12 11 9 8,~~
~~76 1.~~

17" & 18" Cylinders:
Total ~~27 18 14 12~~
~~10, 9.~~



Total weight (roadworthy) 55 0 0

" " (empty) 39 4 0

Tractive power..... 17,030 lbs (17" cyls). (80%)

" " 19,090 " (18" cyls). (80%)

Date: 4-6-52

GENERAL

Tractive Effort Starting 33,000 lbs.
Factor of Adhesion 3.36
Tractive Effort Continuous 11,000
Speed Continuous $7\frac{1}{4}$ mph
Maximum Speed 20 mph

ENGINE

Type, English Electric, 6KT 4 stroke
Continuous Rating 350 H.P.
Cylinders (6) 10" bore x 12" stroke
Speed on load 330 to 680 rpm

ELECTRICAL MACHINES

Main Generator type EE, 801/6C
Continuous Rating 430v, 441 amp., 190 KW, 680 rpm.
Auxiliary Generator type EE/905
Continuous Rating 85 v, 47 amp., 4 KW, 2200 rpm.
Traction motors (2) type EE/506A
Continuous Rating 400v, 235 amp., 115 H.P., 1010 rpm.
Gear Ratios 79/16 & 70/16 = 21.6/1

CAPACITIES

Fuel Oil Main Tank 585 Galls. Max. ϕ
Service Tank 75 "
Lubricating Oil 65 "
Cooling Water 140 "

BATTERIES

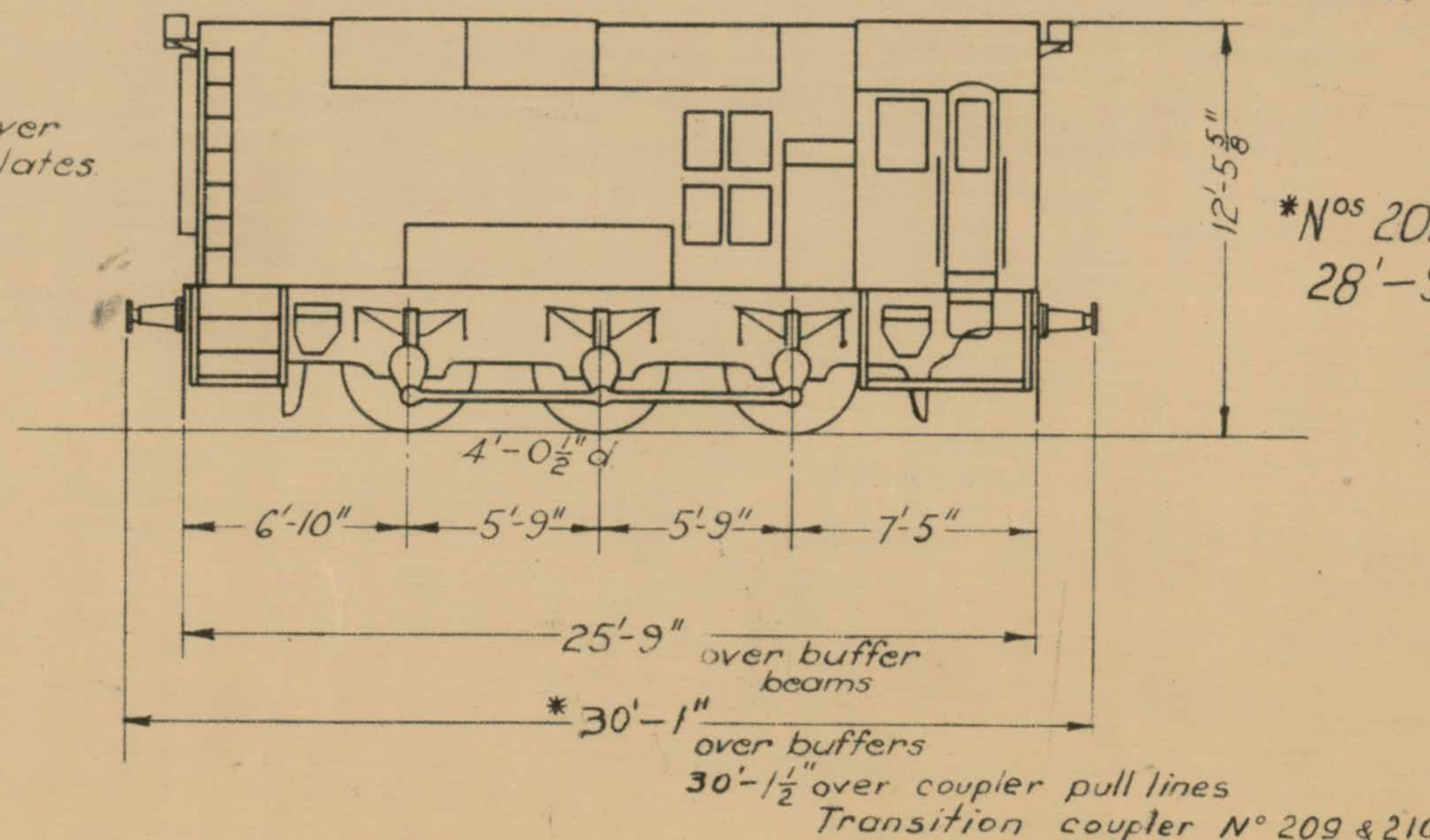
40 cells 108 amp.hr. at 5 hr. rate.
 ϕ Main Fuel Tank not to exceed
500 Galls. in service.

Numbers of Locomotives
Built by The English Electric Co Ltd
1951 Nos 201 to 210
1957 No 211 purchased from S.E.C.
(formerly S.E.C. 3)
1959 Nos 212, 213, 214 purchased from S.E.C.
(formerly S.E.C. 4, 5, 6)
Total 14.

*Nos 201 to 208, 211 to 214 fully auto coupled
28'-9" over coupler pull lines.

1971 Nos. 215 and 216
purchased from SEC.
Total 16

Width $9'-1\frac{3}{8}"$ over
platform plates



Weight 16-7-0 16-10-0 16-14-0
Roadworthy
Total 49-11-0

VICTORIAN RAILWAYS

LOCO CLASS F DIESEL ELECTRIC SHUNTER

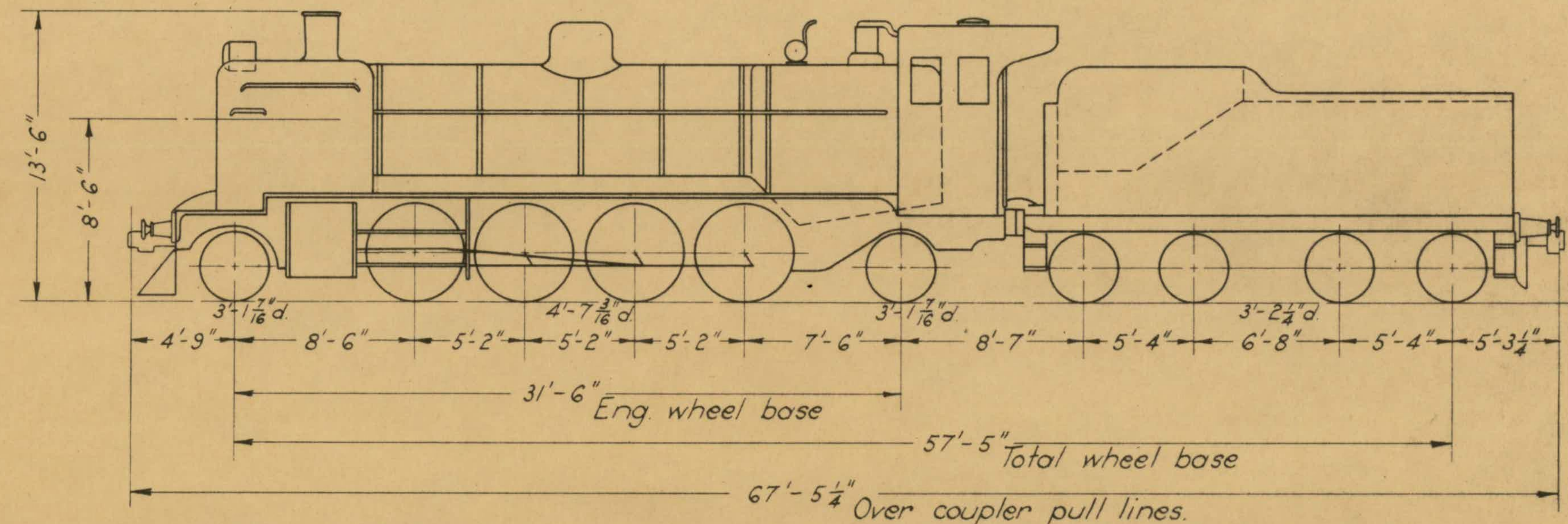
Date: 15-7-59.

196W 37428

ENGINE		VALVE GEAR	BOILER	TENDER	Numbers of Locomotives
Cylinders (2)	20"x 26"	Walschaert	Work. Press. 185 lb. per sq. in.	Coal 120 Cwt.	400 to 418
Tractive Effort (85%)	30,280	Piston Valves 10"	Grate Area 31 sq. ft.	Water 4,700 Gall.	Built at Newport Workshops
Factor of Adhesion	3.98	Travel $4\frac{5}{8}"$ Lap $1\frac{1}{16}"$	Heating Surface Sq. Ft.		1925-28
		Lead $\frac{1}{4}"$	Firebox 141		
			Tubes & Flues 1,755		
			Superheater 378		
			<u>2274</u>		

Total 19 41 43 42 40
 Scrapped 411 - 19-6-59

- 409 - 18.7.59
- 412
- 419
- 423
- 405 - 14.12.59
- 414 - 16.6.60
- 404 - 28.11.60
- 406 - 22.12.60
- 421 - 21.11.61
- 417 - 26.2.62
- 422
- 425
- 428
- 415 28.7.63
- 408 29.4.65
- 413 7.4.65
- 407 30.3.65
- 416 23.3.65
- 403 2.3.65



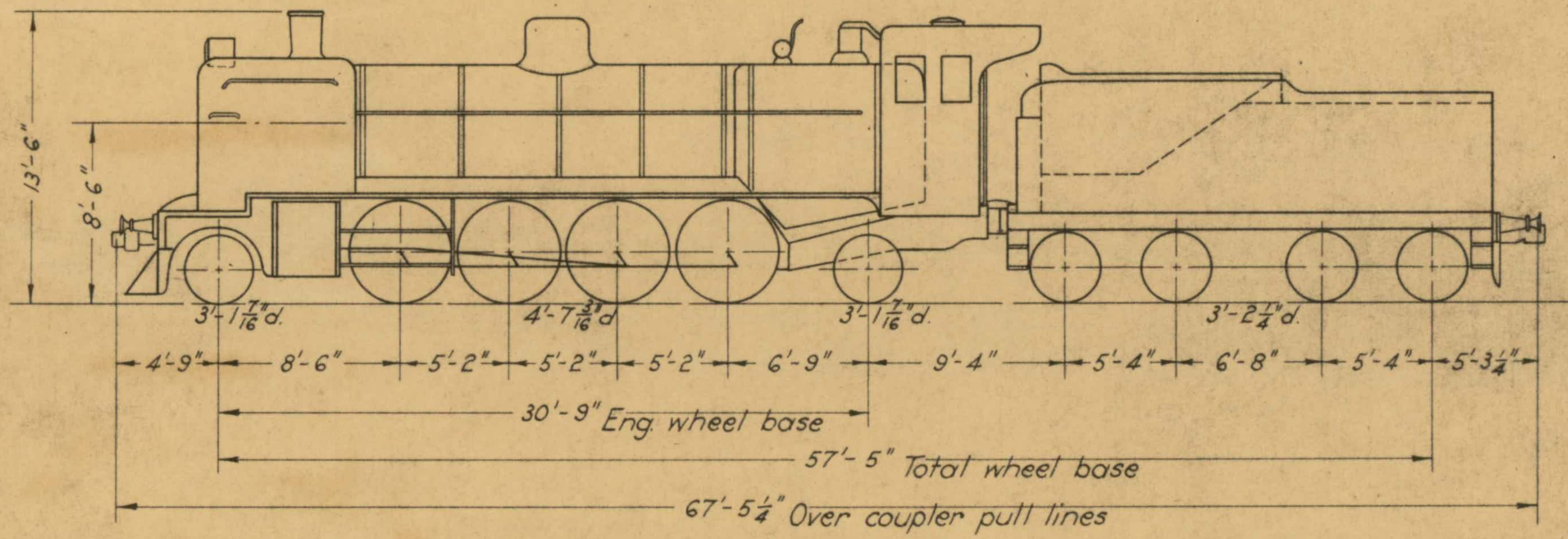
Weight Roadworthy	9-4-0	13-10-0	13-5-0	13-10-0	13-10-0	11-0-0	11-14-0	11-14-0	11-13-0	11-13-0
		Engine	73-19-0				Tender	46-14-0		
				Total	120-13-0					
Weight Empty		Engine	68-3-0				Tender	19-10-0		
				Total	87-13-0					

No. 9-5-64
 54 No.
 58

VICTORIAN RAILWAYS
 LOCO CLASS N COAL BURNING
 Date: 16-7-53

H6W
32428

ENGINE		VALVE GEAR	BOILER	TENDER	Numbers of Locomotives
Cylinders (2)	20" x 26"	Walschaert	Work. Press. 185 lb. per sq. in.	Coal 130 Cwt.	Built at Newport Workshops
Tractive Effort (85%)	30,280	Piston Valves 10"	Grate Area 31 sq. ft.	Water 4,850 Gall.	419 in 1925
Factor of Adhesion	3.91	Travel $4\frac{5}{8}"$ Lap $1\frac{1}{16}"$	Heating Surface Sq. Ft.		420 - 429 1930-31
		Lead $\frac{1}{4}"$	Firebox 141		Total 410
			Tubes & Flues 1,755		419 1-12-58
			Superheater 378		420
			<u>2,274</u>		421



★ Converted to oil burning
1954-1956

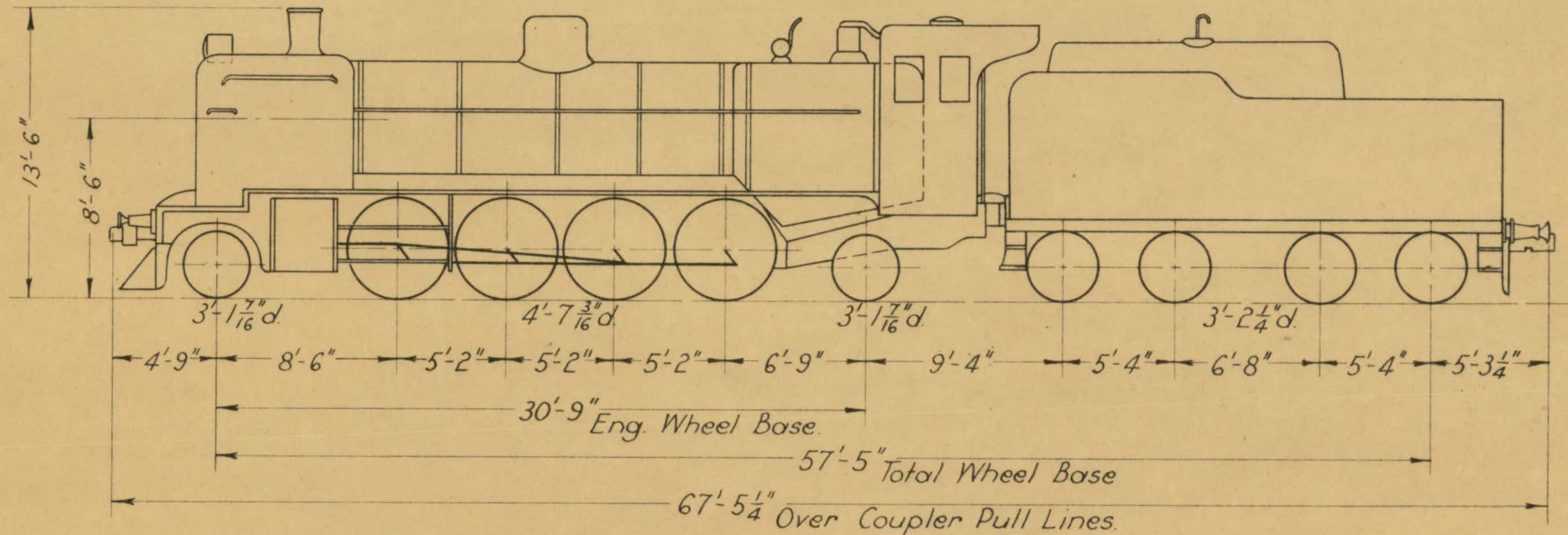
Weight Roadworthy	10-3-0	13-10-0	13-5-0	13-0-0	13-5-0	13-0-0	11-14-0	11-14-0	11-13-0	11-13-0	(N ^{os} 420-429 only)
		Engine			76-3-0			Tender	46-14-0		
						Total	122-17-0 ^{T C Q}				
Weight Empty		Engine			70-7-0			Tender	19-10-0		
						Total	89-17-0 ^{T C Q}				

VICTORIAN RAILWAYS

LOCO CLASS **N** COAL BURNING
Date: 16-7-53

AGW
37428

ENGINE		VALVE GEAR	BOILER	TENDER	Numbers of Locomotives
Cylinders (2)	20" x 26"	Walschaert	Work. Press. 185 lb per sq in.	Oil 1,500 Galls.	Built at Newport Workshops
Tractive Effort (85%)	30,280	Piston Valves 10"	Grate Area 31 sq. ft.	Water 4,700 "	419 in 1925
Factor of Adhesion	3.91	Travel $4\frac{5}{8}"$ Lap $1\frac{1}{16}"$	Heating Surface (sq. ft.)		420-429 in 1930-1931
		Lead $\frac{1}{4}"$	Firebox 141		Total 3
			Tubes & Flues 1,755		
			Superheater 378		
			<u>2,274</u>		



426
427

429
Converted to oil burning
1954-1956

Weight Roadworthy	10-3-0	13-10-0	13-5-0	13-0-0	13-5-0	13-0-0	11-9-0	11-9-0	13-1-0	13-1-0	(Nos 420-429 only)
		Engine	76-3-0				Tender	49-0-0			
					Total	τ c q 125-3-0					
Weight Empty		Engine	70-7-0		Total	τ c q 92-7-0	Tender	22-0-0			

VICTORIAN RAILWAYS

LOCO CLASS **N** OIL BURNING

Date: 15-2-55.

