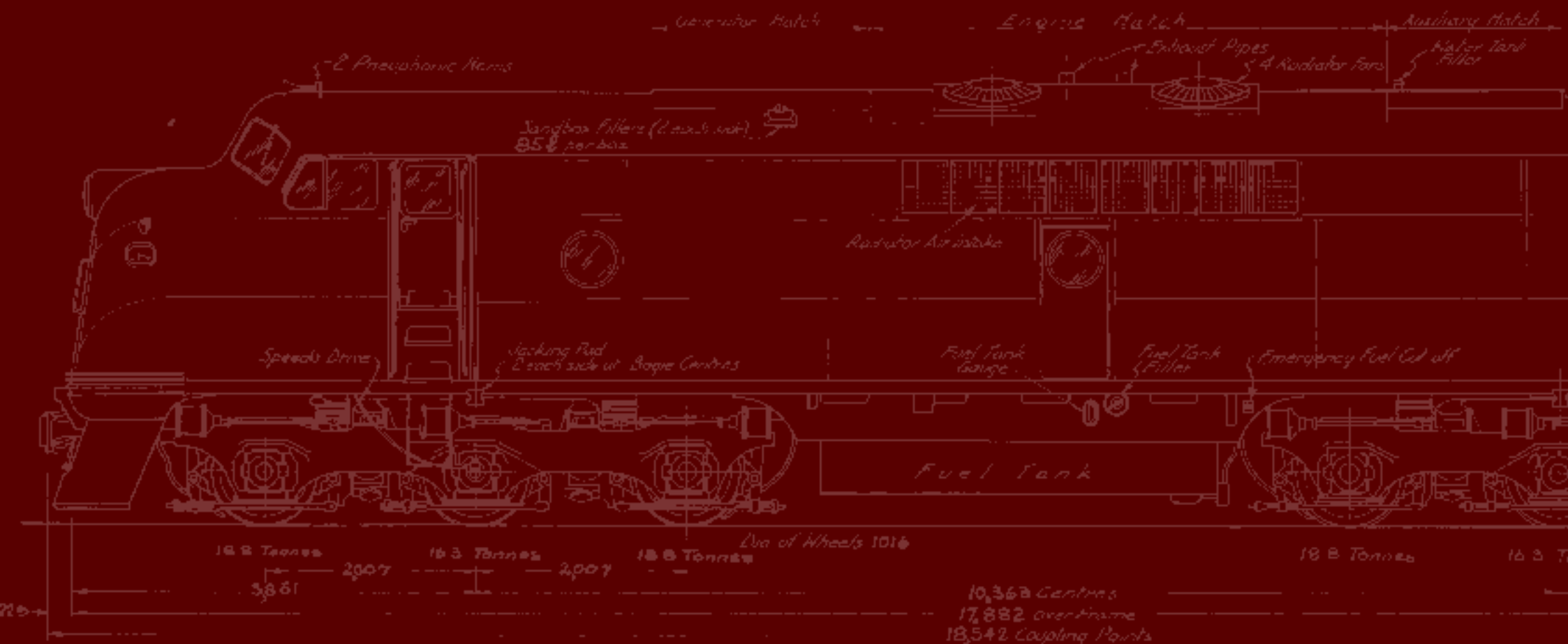




GENERAL

Diesel Engine General Motors EMD Type 16-567B, Two Stroke
 Engine Speed 275-800 RPM
 Generator Model D12 converts 1120 kW for Traction (D.C.)
 Alternator Model D14 for Auxiliaries (A.C.)
 Max Tractive Effort Starting, 25% adhesion 122 kN
 " " " Continuous 122 kN
 Four (4) Traction Motors - 8 Drive Shafts
 Gear Ratio 58-13
 Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
 Lubricating Oil Capacity 730 litres
 Cooling Water Capacity 842 litres
 Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
 Weight on Locomotive Roadworthy 10.8 Tonnes and 36T 140
 One Bogie Centre 23,403 kg
 Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

Australian National CR 1435MM Diesel Diagrams





NRM-DB04

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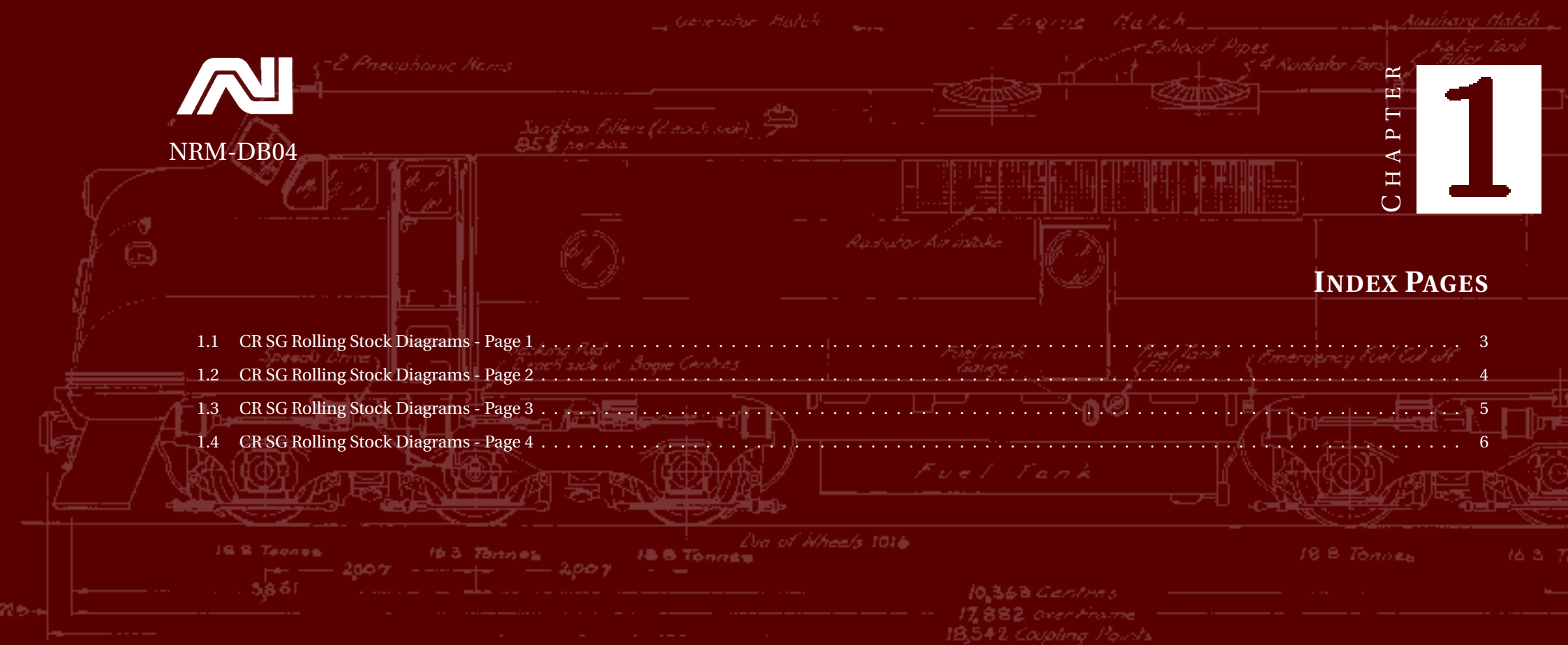
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1.1 CR SG Rolling Stock Diagrams - Page 1

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SECTION	CLASS	DESCRIPTION	SHEET N°	SECTION	CLASS	DESCRIPTION	SHEET N°	SECTION	CLASS	DESCRIPTION	SHEET N°
DIESEL LOCOMOTIVES	DR	DIESEL MECH. SHUNTING	1	SPECIAL SERVICE	SS	SPECIAL SERVICE CAR	24	SITTING UP CARS			47
	DE	DIESEL ELEC. SHUNTING	2		SSA	SPECIAL SERVICE CAR	25				48
	GM	DIESEL ELEC. MAIN LINE 1120 kW	3				26		AG	22·86m SITTING UP CAR	49
	GM	DIESEL ELEC. MAIN LINE 1305 kW	4				27				50
			5	LOUNGE CARS	AF	15·60m LOUNGE CAR	28		BA	22·86m SITTING UP CAR	51
			6				29		BB	24·94m SITTING UP CAR	52
	CL	DIESEL ELEC. MAIN LINE 2240 kW	7		AFA	22·86m LOUNGE CAR	30		BC	19·8m SITTING UP CAR	53
			8		AFB	22·86m LOUNGE CAR	31		BD	19·8m SITTING UP CAR	54
			9		AFC	22·86m LOUNGE CAR	32		BE	18·46m SITTING UP CAR	55
	AL	DIESEL ELEC. MAIN LINE 2240 kW	10				33		BF	18·46m SITTING UP CAR	56
			11				34		BG	22·86m SITTING UP CAR	57
			12				35				58
			13				36	FIRST CLASS SLEEPING			59
			14	CAFETERIA CLUB	CDF	22·86m CAFETERIA CLUB CAR	37				60
			15				38				61
			16				39				62
			17				40		ARD	22·86m SLEEPING CAR	63
RAIL CARS	CB	DIESEL HYDRAULIC RAIL CAR	17	DINING CARS	XDA	23·3m DINING CAR	41		ARE	24·4m SLEEPING CAR	64
			18		DC	24·99m DINING CAR	42		ARF	24·99m SLEEPING CAR	65
			19		DD	24·99m DINING CAR	43				66
			20		DE	22·86m DINING CAR	44		ARH	22·86m SLEEPING CAR	67
			21		DF	22·86m DINING CAR	45		ARJ	22·86m SLEEPING CAR	68
			22				46		ARL	22·86m SLEEPING CAR	69
			23								

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AUSTRALIAN NATIONAL RAILWAYS					INDEX 1435 GAUGE ROLLING STOCK					SHEET 2							
SECTION	CLASS	DESCRIPTION			SHEET N°	SECTION	CLASS	DESCRIPTION			SHEET N°	SECTION	CLASS	DESCRIPTION			SHEET N°
	ARM	22 86m	SLEEPING	CAR	70		ER	22 86m	DORMITORY	CAR	93					116	
				71					94				117				
				72					95				118				
				73					96								
				74	BRAKE VANS					97	VDB VDM	13-72m	MAIL	VAN	119		
				75						98	HM	22-86m	MAIL	VAN	120		
				76			AVDY	22-86m	BRAKE	VAN	99					121	
				77						100						122	
ECONOMY CLASS SLEEPING				78		AVEY	13-72m	BRAKE	VAN	101	PAY VANS	PA	14 86m	PAY	VAN	123	
				79					102							124	
	BRB	22-86m	TRANSPORT	DRIVERS		80				103							125
				81		AVFY	11 1m	BRAKE	VAN	104	COVERED WAGONS	V	10 67m	GOODS	WAGON	126	
				82	AVHY	13 72m	BRAKE	VAN	105							127	
	BRD	24-38m	SLEEPING	CAR	83	AVLY	13 30m	LOW LEVEL	BRAKE VAN	106		V	10 67m	GOODS	WAGON	128	
	BRE	22-86m	SLEEPING	CAR	84	AVJY	14-2 m	COMPOSITE	BRAKE VAN	107		VA	10-67m	GOODS	WAGON	129	
	BRF	24-99m	TRANSPORT	DRIVERS	85					108		VB	10-08m	GOODS	WAGON	130	
				86	HRG	10 97m	POWER	BRAKE VAN	109	ABCY		13 72m	GOODS	WAGON	131		
	BRFC	24 38m	SLEEPING	CAR	87	HRG	18 3m	POWER	BRAKE VAN	110		ABDY	13 72m	GOODS	WAGON	132	
	BRFD	24 38m	SLEEPING	CAR	88	HRGA	22-86m	POWER	BRAKE VAN	111		ABEX	22 86m	GOODS	WAGON	133	
	BRG	22-86m	SLEEPING	CAR	89	HRGB	23-2m	POWER	BRAKE VAN	112		ABFX	22 86m	GOODS	WAGON	134	
	BRJ	22 86m	SLEEPING	CAR	90	HRGC	22-86m	POWER	BRAKE VAN	113							135
				91	HGM	22-86m	POWER	BRAKE VAN	114							136	
				92					115							137	
																138	

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AUSTRALIAN NATIONAL RAILWAYS				INDEX 1435 GAUGE ROLLING STOCK				SHEET 3			
SECTION	CLASS	DESCRIPTION	SHEET N°	SECTION	CLASS	DESCRIPTION	SHEET N°	SECTION	CLASS	DESCRIPTION	SHEET N°
LOUVRE WAGONS	L	10-67m LOUVRE WAGON	139		AQMX	19-2m FLAT WAGON	162		AODY	13-41m OPEN GOODS WAGON	185
			140		AQMX	19-2m FLAT WAGON (& AQPY)	163		GE	14-33m DROP SIDE WAGON	186
	ALBY	13-72m LOUVRE WAGON	141		AFNY	25m WAGON for STEEL TRAFFIC	164		GL	12-8m DROP SIDE WAGON	187
	ALCY(x)	13-72m LOUVRE WAGON	142		AQOX	22-86m FLAT WAGON	165		AOMX	22-86m OPEN GOODS WAGON	188
	ALDY(x)	13-72m LOUVRE WAGON	143		AFQX	22-86m FLAT WAGON (BULKHEADS)	166		AOOX	22-86m OPEN GOODS WAGON	189
	ALEX	22-86m LOUVRE WAGON	144				167		AOHY	10-97m OPEN GOODS WAGON	190
	ALKY	10-97m LOUVRE VAN	145				168				191
			146				169				192
			147		AQNY	14-33m FLAT WAGON	170				193
			148		AQRY	15-85m LOWLEVEL FLAT	171				194
			149		AFRY	14-33m RAIL WAGON	172				195
			150								196
FLAT WAGONS	R	10-06m FLAT WAGON	151	HEAVY LOAD FLAT WAGONS	Q	24-38m ROLLINGSTOCK TRANSPORTER	173	COAL WAGONS			
	R	10-67m FLAT WAGON	152		QA	13-72m ROLLINGSTOCK TRANSPORTER	174		GHA	13-41m COAL WAGON	197
	RA	13-72m FLAT WAGON	153		QB	19-2m HEAVY LOAD WAGON	175		GPA	13-41m COAL WAGON	198
	RB	12-8m FLAT WAGON	154				176				199
	RF	9-45m FLAT WAGON	155				177				200
	AFGY	14-33m FLAT WAGON	156				178				201
	RGB	13-41m FLAT WAGON	157				179				202
	AFGX	14-33m FLAT WAGON (BULKHEADS)	158				180				203
	RH	12-8m FLAT WAGON	159	OPEN WAGONS	G	10-67m OPEN GOODS WAGON	181	ORE WAGONS	AOQX	9-45m ORE WAGON	204
	RJ	10-06m FLAT WAGON (CONTAINER)	160		GA	12-8m OPEN GOODS WAGON	182				205
					AOEY	13-41m OPEN GOODS WAGON	183				206
	AFLY	17-07m FLAT WAGON	161		AOEX	13-41m OPEN GOODS WAGON	184				207

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1.4 CR SG Rolling Stock Diagrams - Page 4

AUSTRALIAN NATIONAL RAILWAYS				INDEX 1435 GAUGE ROLLING STOCK				SHEET 4			
SECTION	CLASS	DESCRIPTION			SHEET N°	SECTION	CLASS	DESCRIPTION			SHEET N°
MOTOR VEHICLE WAGON	AMCX	21.34m	MOTOR VEHICLE WAGON		208						231
	AMGY	25.91m	MOTOR VEHICLE WAGON		209						232
	AMKY	25.91m	MOTOR VEHICLE WAGON		210						233
	AMNX(V)	22.86m	MOTOR VEHICLE WAGON		211	CATTLE WAGON					234
					212		ACBY	10.67m	CATTLE WAGON		235
					213		ACCY	21.95m	CATTLE WAGON		236
					214		ACDY	10.97m	CATTLE WAGON		237
					215		ACEY	21.34m	CATTLE WAGON		238
					216		ACCX	21.95m	CATTLE WAGON		239
BALLAST HOPPER WAGON	B	9.14m	BALLAST WAGON		217						240
	BA	7.47m	BALLAST WAGON		218	FUEL TANK WAGONS	TB	13.72m	TANK WAGON	50 100ℓ	241
	BB	9.14m	BALLAST WAGON		219		TOA	10.06m	TANK WAGON	27 730ℓ	242
	WSH	11.83m	BALLAST WAGON (EX WAGON)		220		TOB	10.97m	TANK WAGON	40 910ℓ	243
					221		TOC	11.89m	TANK WAGON	44 100ℓ	244
					222		TOD	13.72m	TANK WAGON	50 000ℓ	245
BALLAST PLOUGH	BP	10.06m	BALLAST PLOUGH		223		TOE	13.72m	TANK WAGON	45 460ℓ	246
	BPA	13.72m	BALLAST PLOUGH		224						247
					225		TOG	19.66m	TANK WAGON	89 780ℓ	248
					226		TOH	10.97m	TANK WAGON	45 460ℓ	249
SHEEP WAGON					227		TOJ	13.12m	TANK WAGON	45 460ℓ	250
	ASBY	10.97m	SHEEP WAGON		228		TOK	14.00m	TANK WAGON	59 600ℓ	251
	ASCY	25.91m	SHEEP WAGON		229						252
					230						253
											254
											255
						WATER TANK WAGON	T	10.67m	TANK WAGON	45 460ℓ	256
											257
							TF	10.97m	TANK WAGON	40 910ℓ	258
							TG	10.67m	TANK WAGON	40 910ℓ	259
							TJ	9.67m	TANK WAGON	40 910ℓ	260
							TK	14.02m	TANK WAGON	50 000ℓ	261
							TL	13.87m	TANK WAGON	54 600ℓ	262
							TM	10.07m	TANK WAGON	24 970ℓ	263
							TN	12.0m	TANK WAGON	54 000ℓ	264
											265
											266
						COMMUNITY SERVICE	OW	19.86m	WELFARE CAR		267
							OWA	24.99m	WELFARE CAR		268
							W	21.64m	WELFARE CAR (THEATRE)		269
											270
											271
						EMPLOYEES VANS	E	10.67m	EMPLOYEES VAN		272
							EA	10.72m	EMPLOYEES VAN		273
							EC	14.02m	EMPLOYEES VAN		274
							ED	19.86m	EMPLOYEES VAN (DINING)		275
							EE	19.86m	EMPLOYEES VAN		276

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CHAPTER

2

LOCOMOTIVES

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2.5	CL Diesel Electric Loco	13
2.6	AL Diesel Electric Loco	14

GENERAL

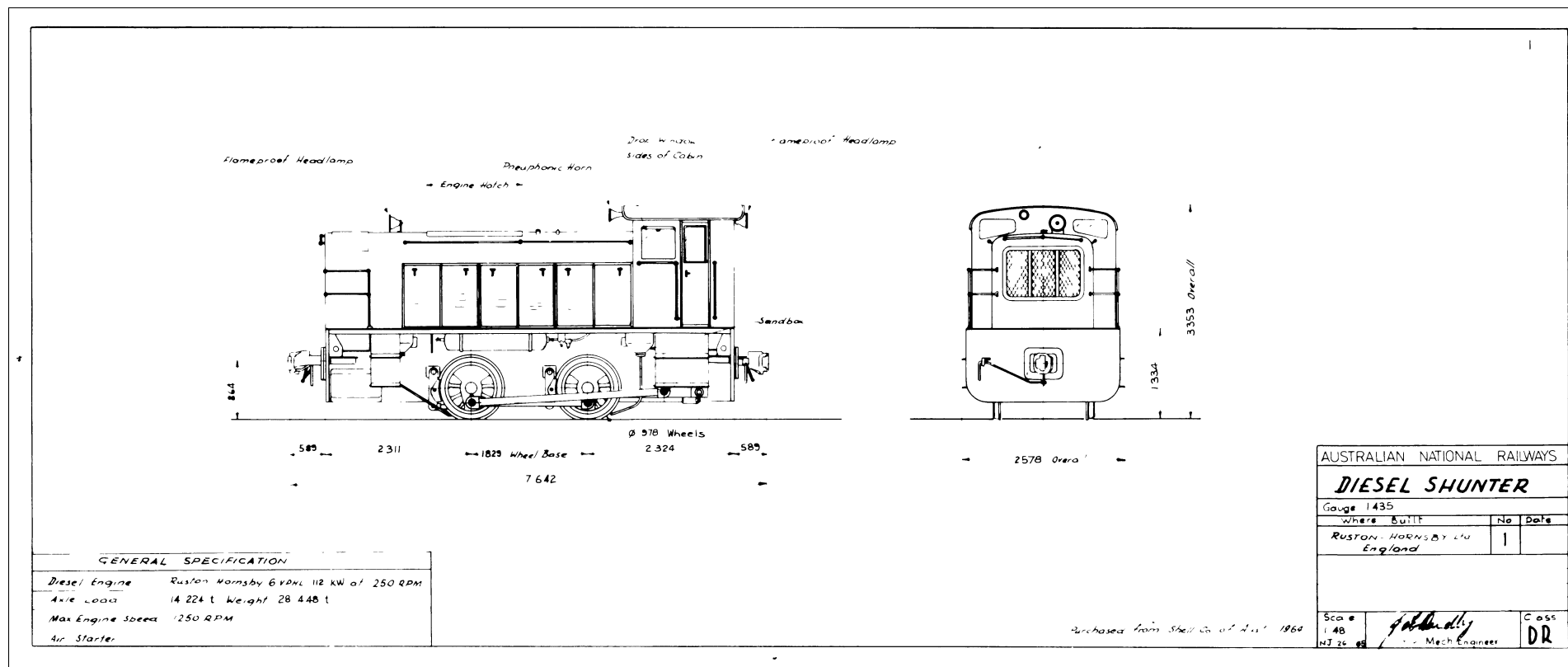
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " on Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

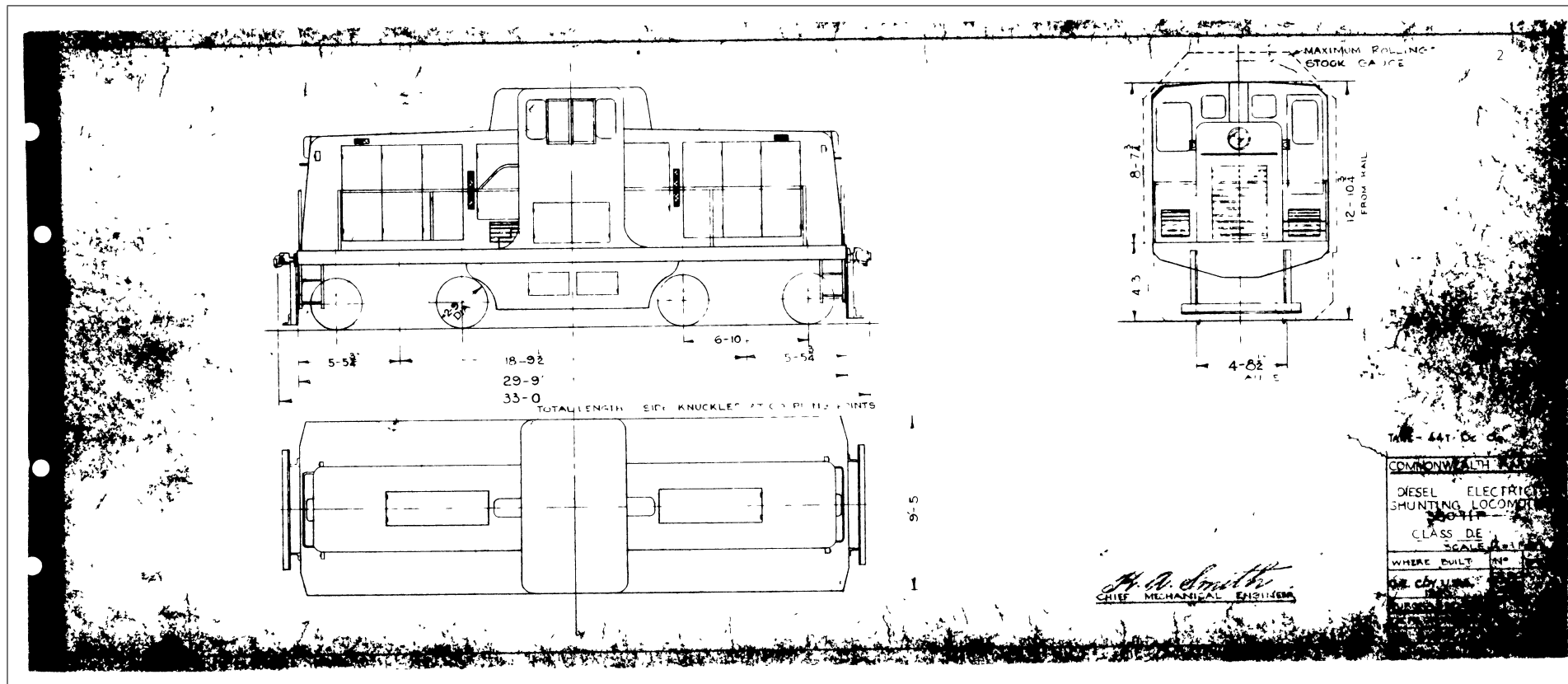


2.1 DR Diesel Shunter Loco



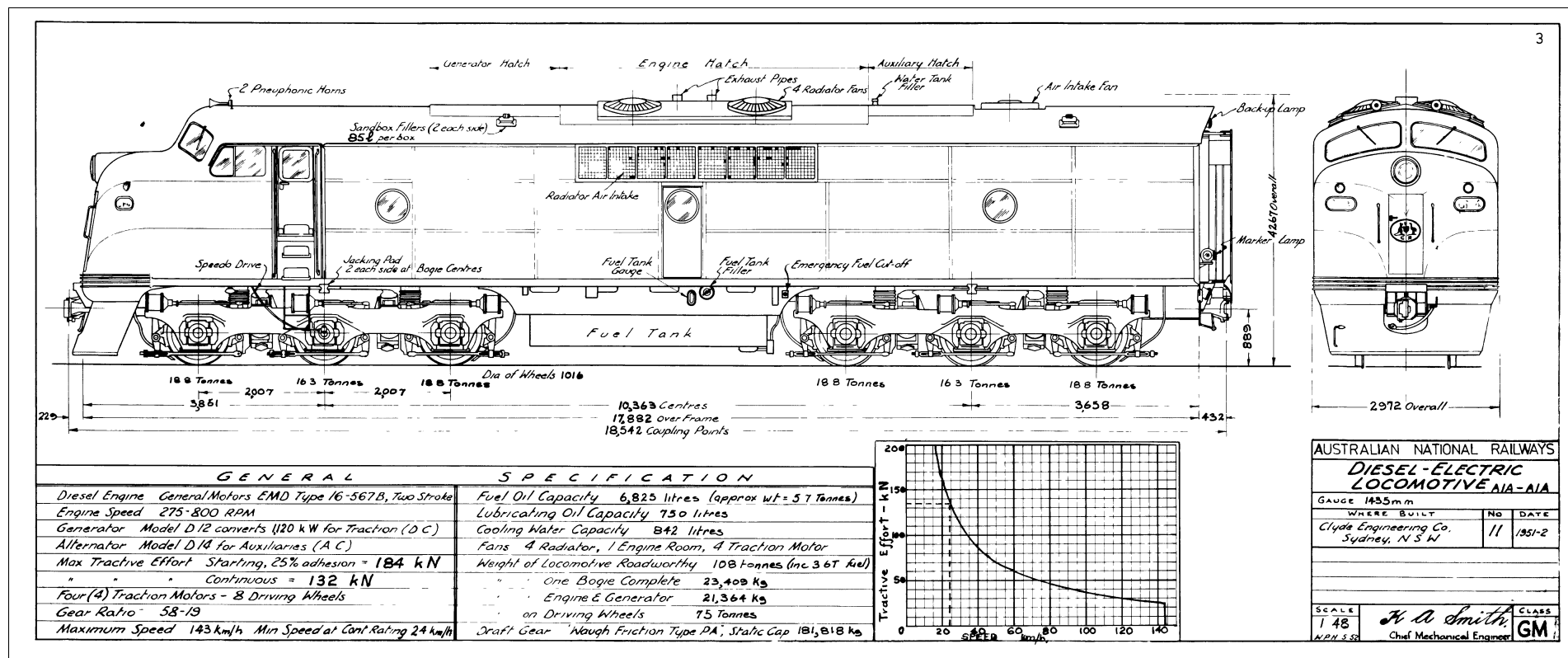
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2.2 DE Shunting Loco



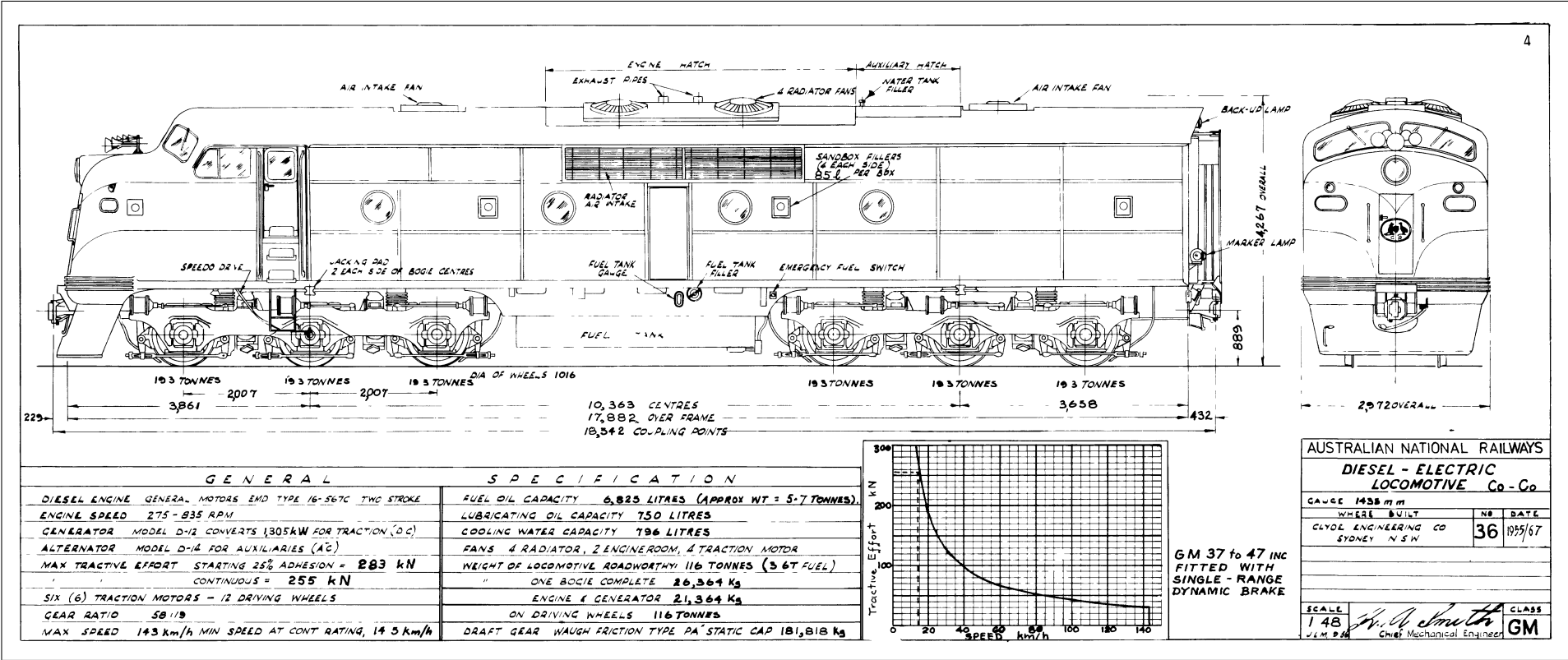
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2.3 GM Diesel Electric Loco A1A-A1A



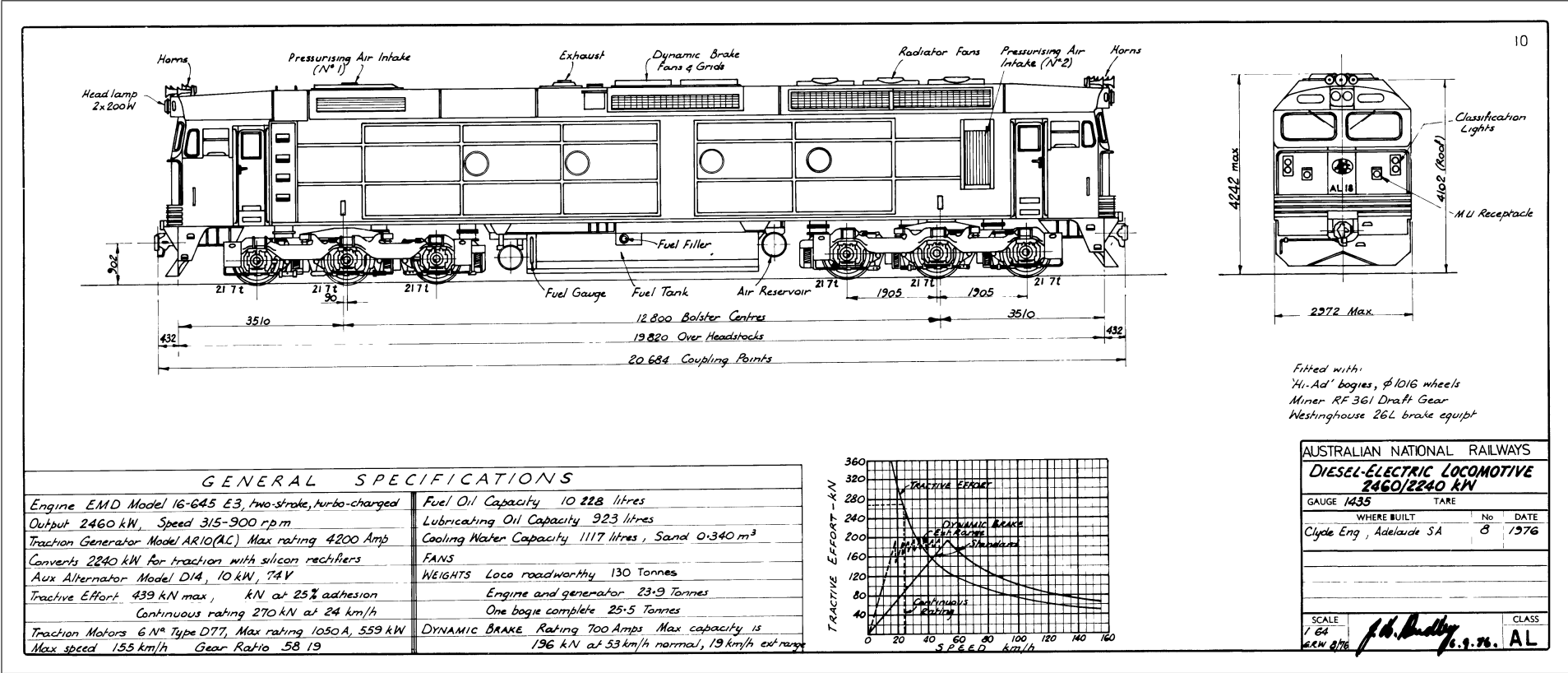
PlanId: NS003

2.4 GM Diesel Electric Loco C0-C0



PlanId: NS004

2.6 AL Diesel Electric Loco



PlanId: NS010

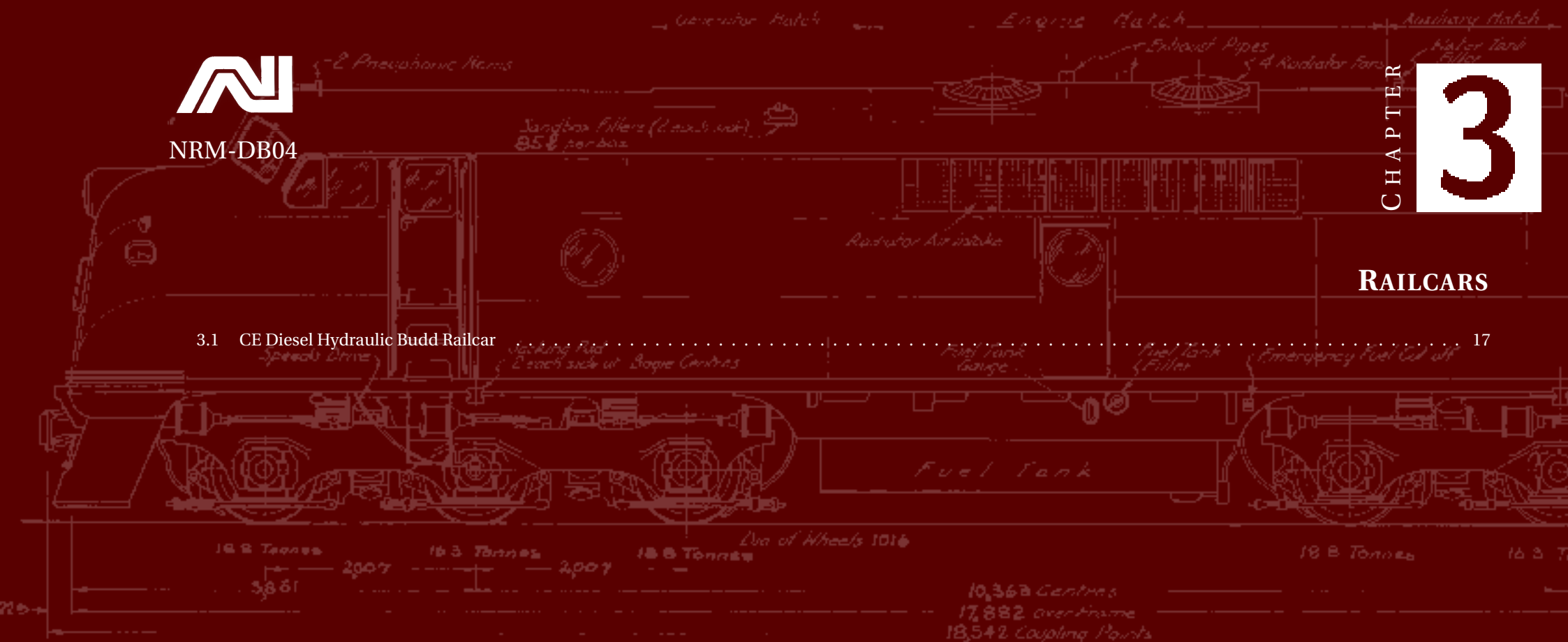


NRM-DB04

RAILCARS

3.1 CE Diesel Hydraulic Budd Railcar

17



GENERAL

Diesel Engine	General Motors EMD Type 16-567B, Two Stroke
Engine Speed	275-800 RPM
Generator	Model D12 converts 1120 kW for Traction (D.C.)
Alternator	Model D14 for Auxiliaries (A.C.)
Max Tractive Effort	Starting, 25% adhesion = 184 kN
"	Continuous = 132 kN
Four (4) Traction Motors	= 8 Driving Wheels
Gear Ratio	58-19
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity	6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity	730 litres
Cooling Water Capacity	842 litres
Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T fuel)
"	One Bogie Complete 23,403 kg
"	Engine & Generator 21,364 kg
"	15 Driving Wheels 75 Tonnes
Draft Gear	Knock Friction Type PA, Stair Cap 181,818 kg

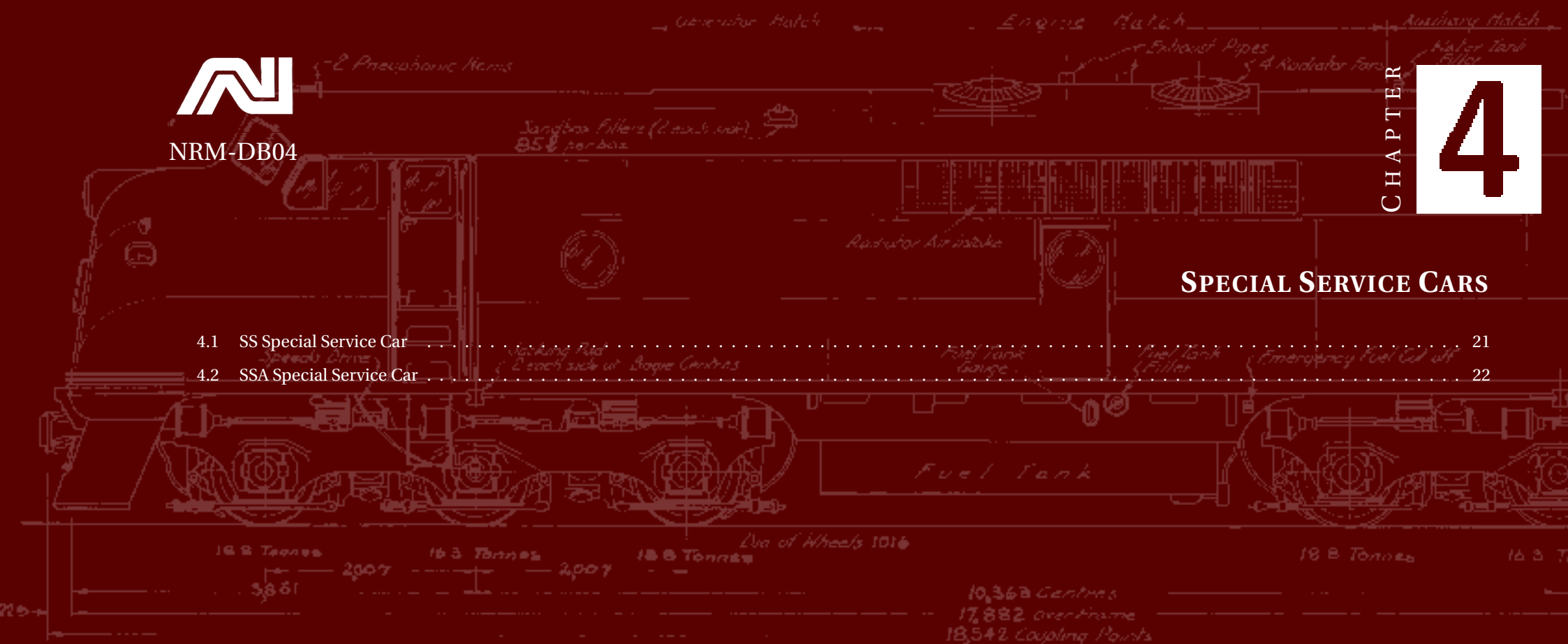




NRM-DB04

SPECIAL SERVICE CARS

4.1 SS Special Service Car	21
4.2 SSA Special Service Car	22



GENERAL		SPECIFICATION	
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke	Fuel Oil Capacity	6,825 litres (approx wt = 5.7 Tonnes)
Engine Speed	275-800 RPM	Lubricating Oil Capacity	730 litres
Generator	Model D12 converts 1120 kW for Traction (D.C.)	Cooling Water Capacity	842 litres
Alternator	Model D14 for Auxiliaries (A.C.)	Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Max Tractive Effort	Starting, 25% adhesion = 184 kN	Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T Fuel)
"	Continuous = 132 kN	" One Bogie Complete	33,403 kg
Four (4) Traction Motors = 8 Driving Wheels		" Engine & Generator	21,364 kg
Gear Ratio - 58-19		" 19 Driving Wheels	75 Tonnes
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h		Draft Gear	Knock Friction Type PA, Static Cap 181,818 kg

Tractive Effort - kN

200

150

100

50

0

20

40

60

80

100

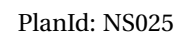
120

140

160

180

200





NRM-DB04

LOUNGE CARS

5.1	AF Lounge Car	25
5.2	AF Lounge Car	26
5.3	AFA 1st Class Lounge Car	27
5.4	AFB 1st Class Lounge Car	28
5.5	AFC 1st Class Lounge Car	29

GENERAL

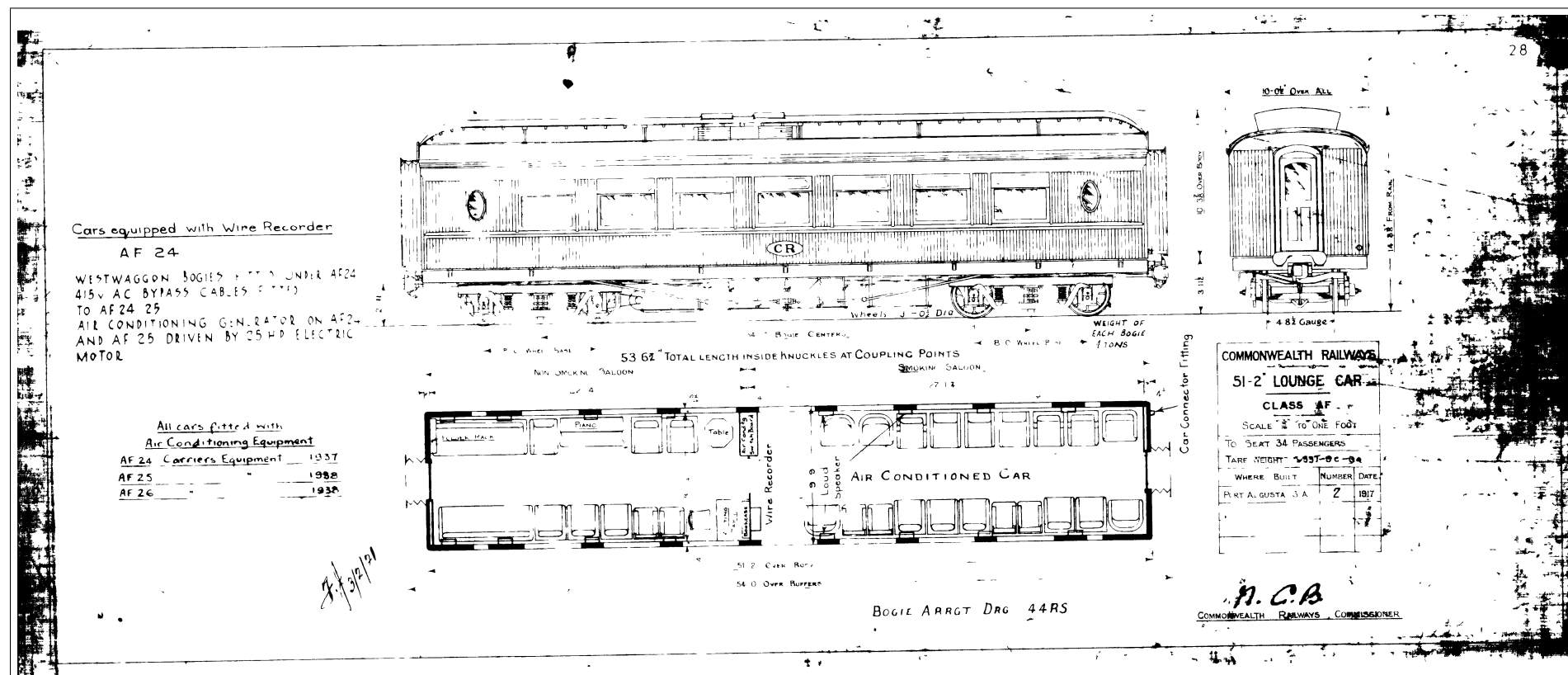
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T Fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 23 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

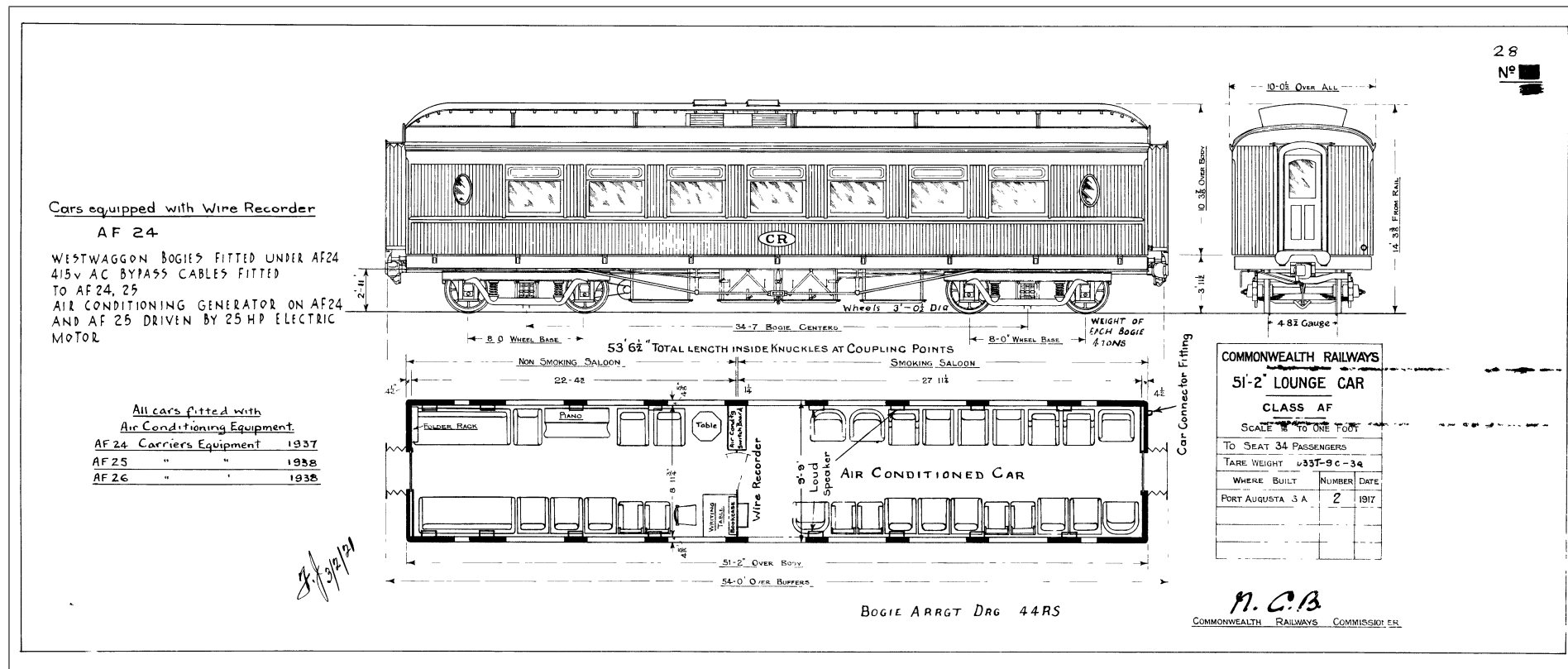


5.1 AF Lounge Car



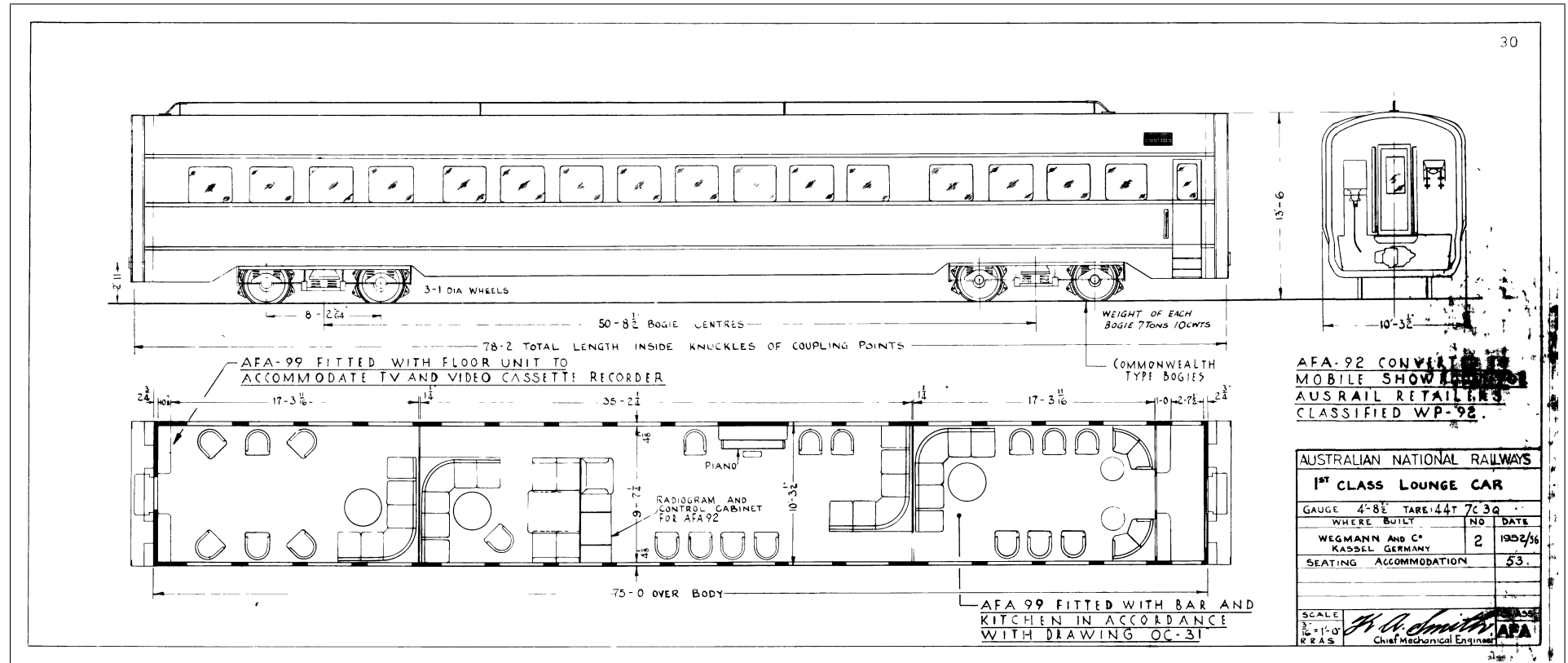
PlanId: NS028

5.2 AF Lounge Car

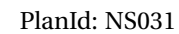


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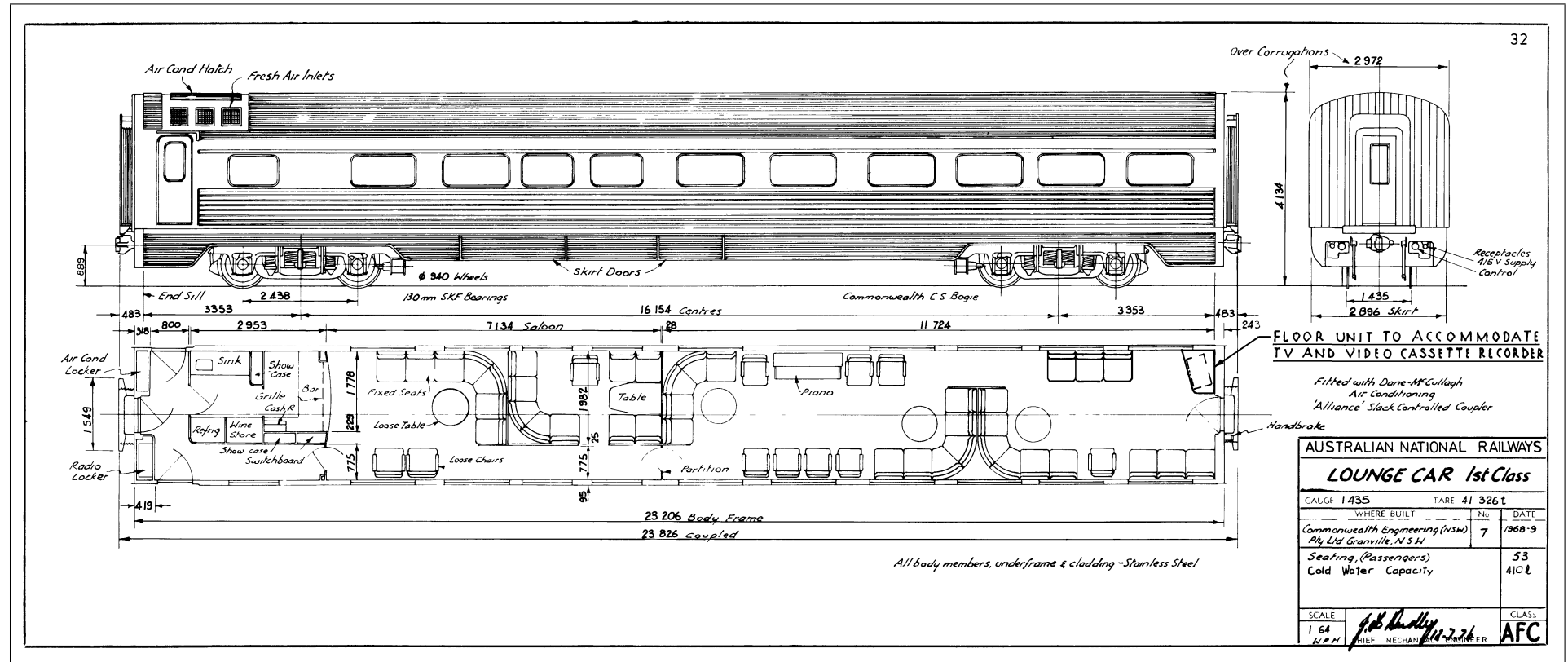
5.3 AFA 1st Class Lounge Car



PlanId: NS030



5.5 AFC 1st Class Lounge Car



PlanId: NS032



NRM-DB04

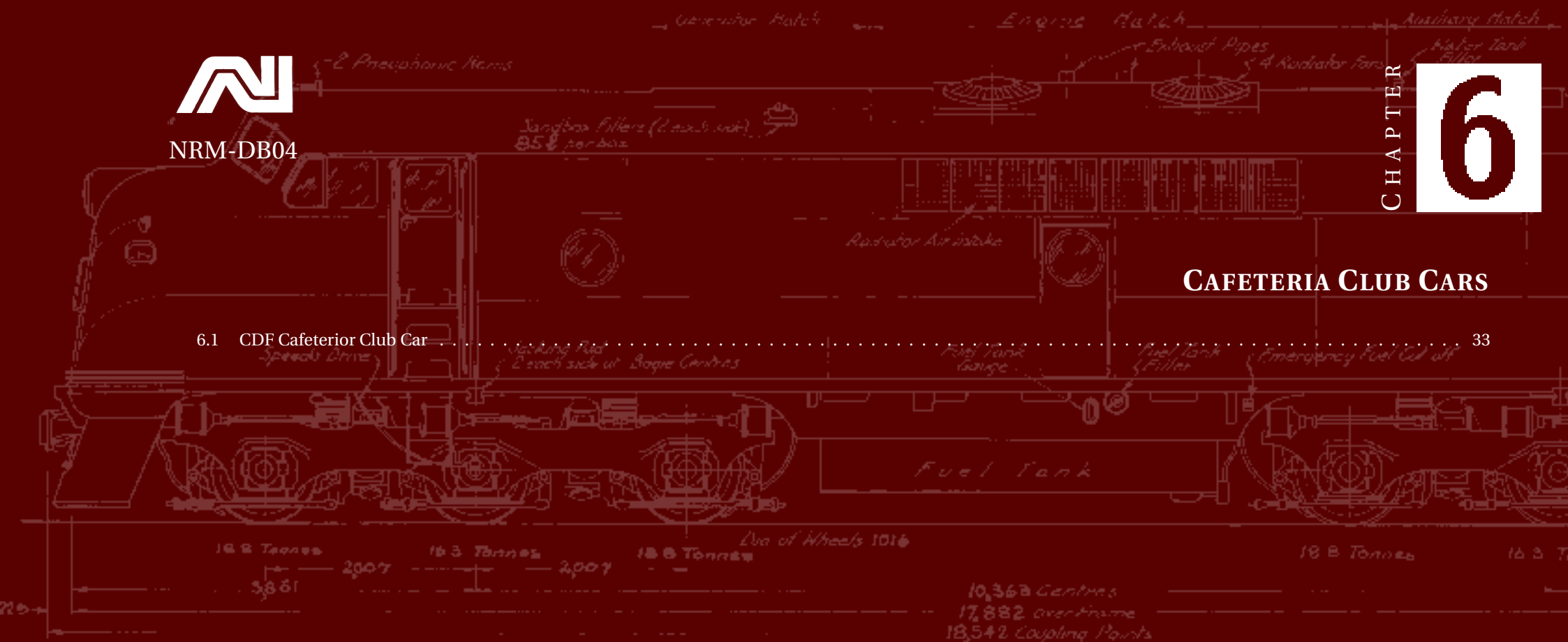
CHAPTER

6

CAFETERIA CLUB CARS

6.1 CDF Cafeterior Club Car

33



GENERAL

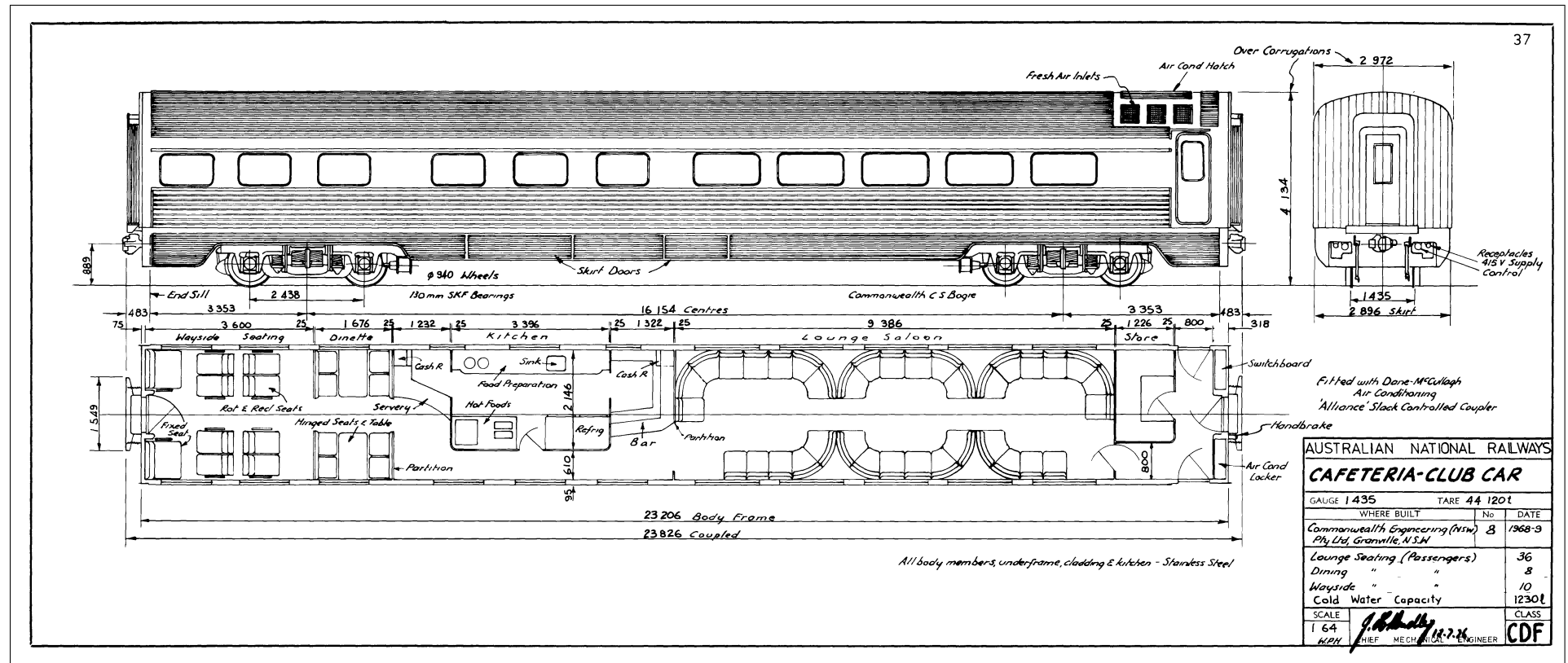
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
 Engine Speed 275-800 RPM
 Generator Model D12 converts 1120 kW for Traction (D.C.)
 Alternator Model D14 for Auxiliaries (A.C.)
 Max Tractive Effort Starting, 25% adhesion = 184 kN
 " " " Continuous = 132 kN
 Four (4) Traction Motors = 8 Driving Wheels
 Gear Ratio - 58-19
 Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
 Lubricating Oil Capacity 730 litres
 Cooling Water Capacity 842 litres
 Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
 Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
 " " " One Bogie Complete 33,403 kg
 " " " Engine & Generator 21,364 kg
 " " " 31 Driving Wheels 75 Tonnes
 Draft Gear Tough Friction Type PA, Stain Cap 181,818 kg



6.1 CDF Cafeterior Club Car



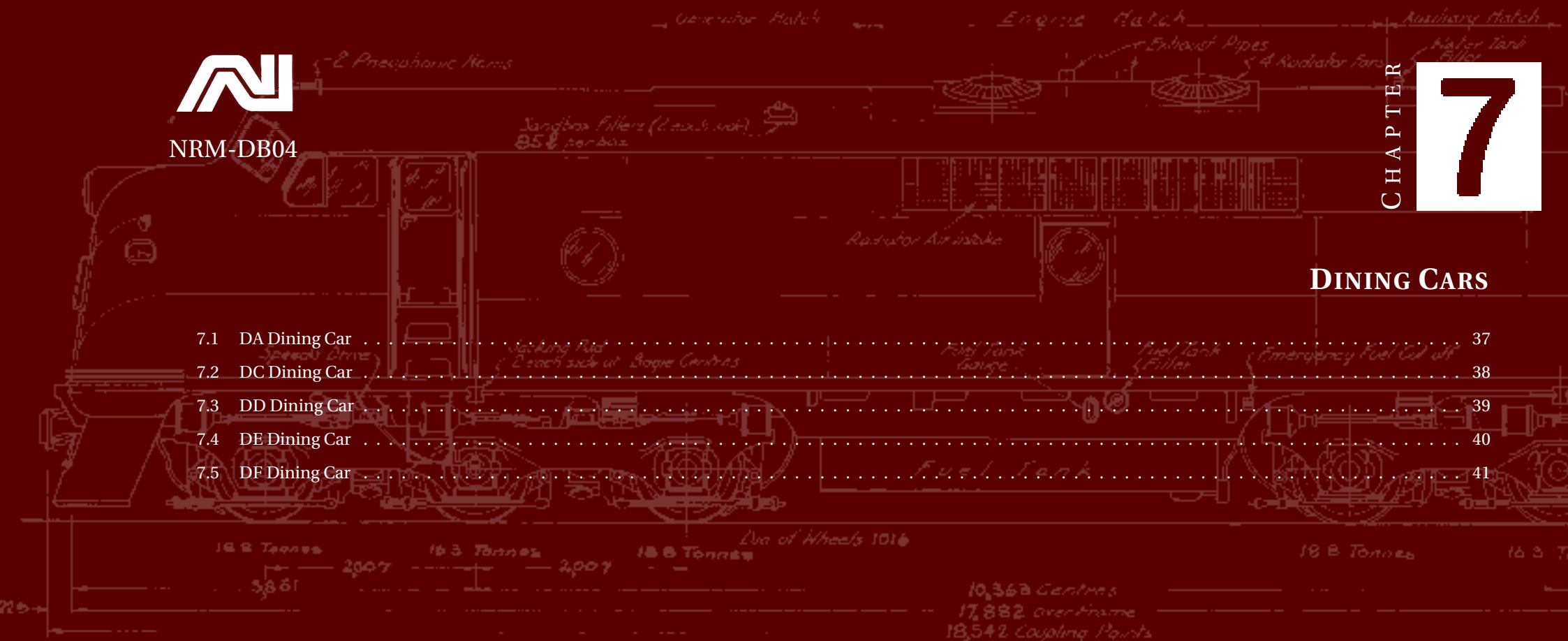
PlanId: NS037



NRM-DB04

DINING CARS

7.1	DA Dining Car	37
7.2	DC Dining Car	38
7.3	DD Dining Car	39
7.4	DE Dining Car	40
7.5	DF Dining Car	41



GENERAL

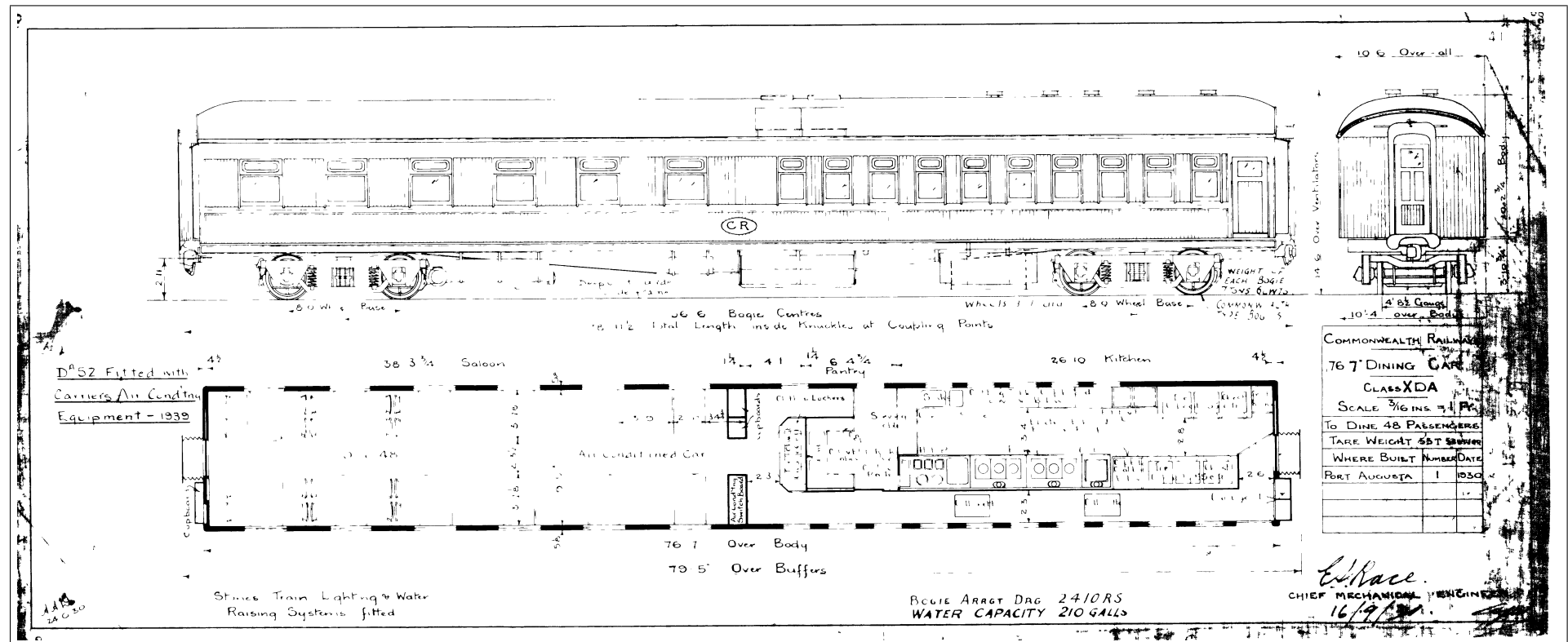
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

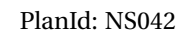
Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 35 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



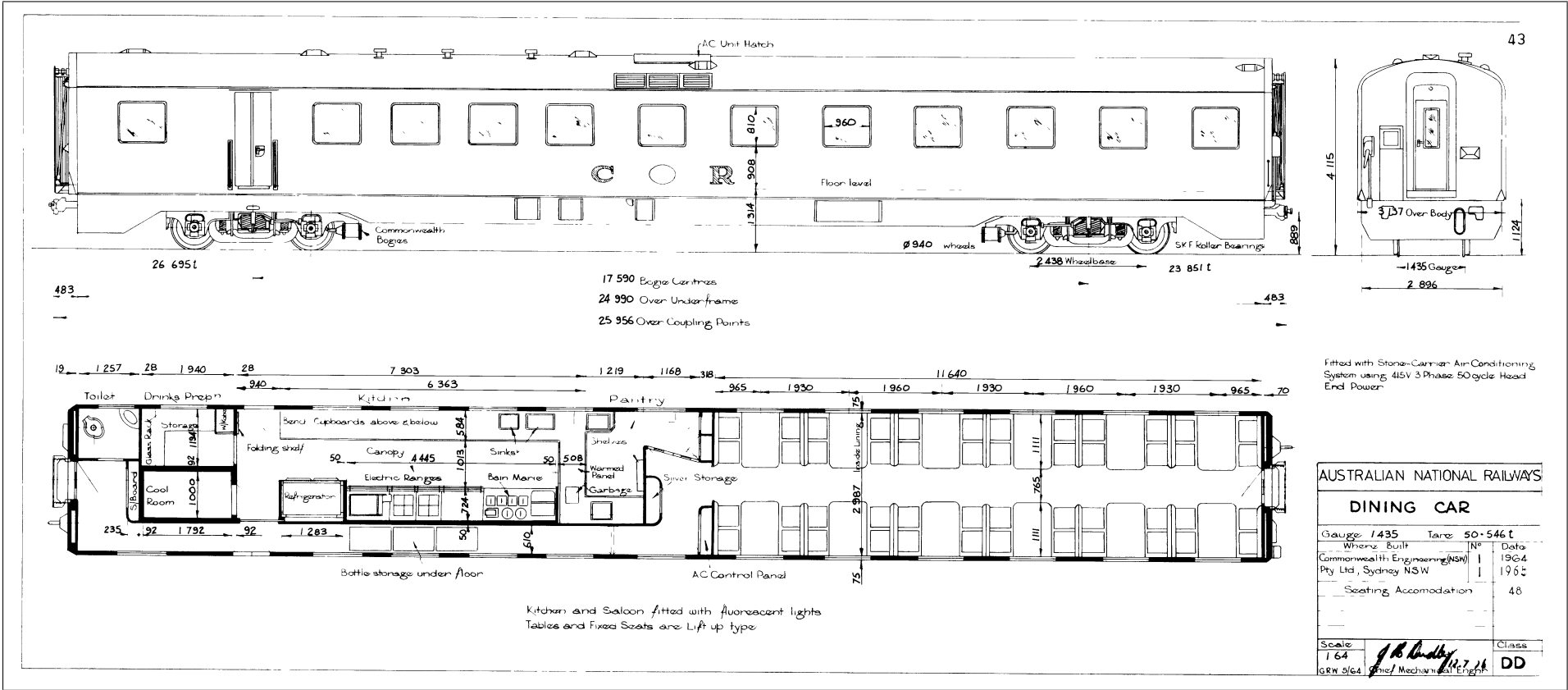
7.1 DA Dining Car



PlanId: NS041



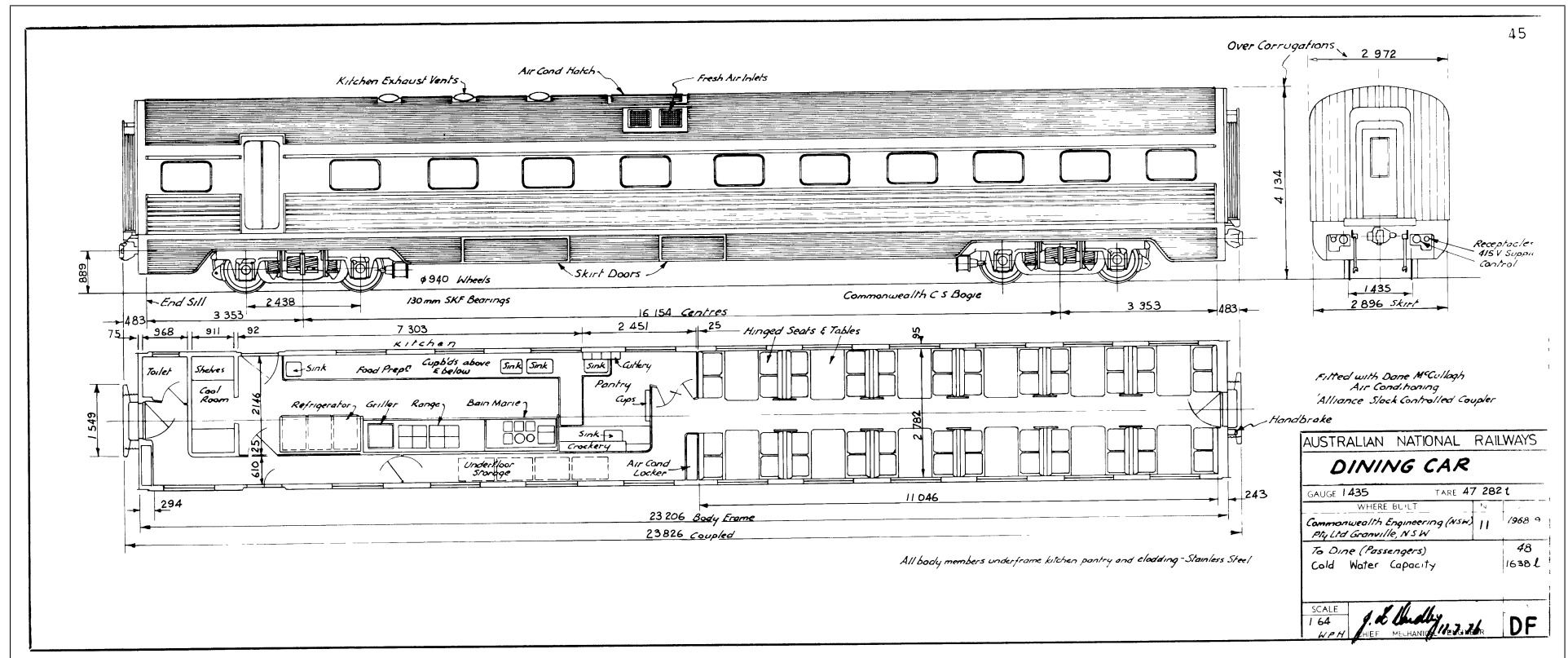
7.3 DD Dining Car



PlanId: NS043



7.5 DF Dining Car



PlanId: NS045



NRM-DB04

CHAPTER

8

SITTING UP CARS

8.1	AG Coach Car	45
8.2	AG Coach Car	46
8.3	BA 2nd Class Coach Car	47
8.4	BB Sitting-Up Car	48
8.5	BC Sitting-Up Car	49
8.6	BD Sitting-Up Car	50
8.7	BE Sitting-Up Car	51
8.8	BF Sitting-Up Car	52
8.9	BG Coach Car	53

GENERAL

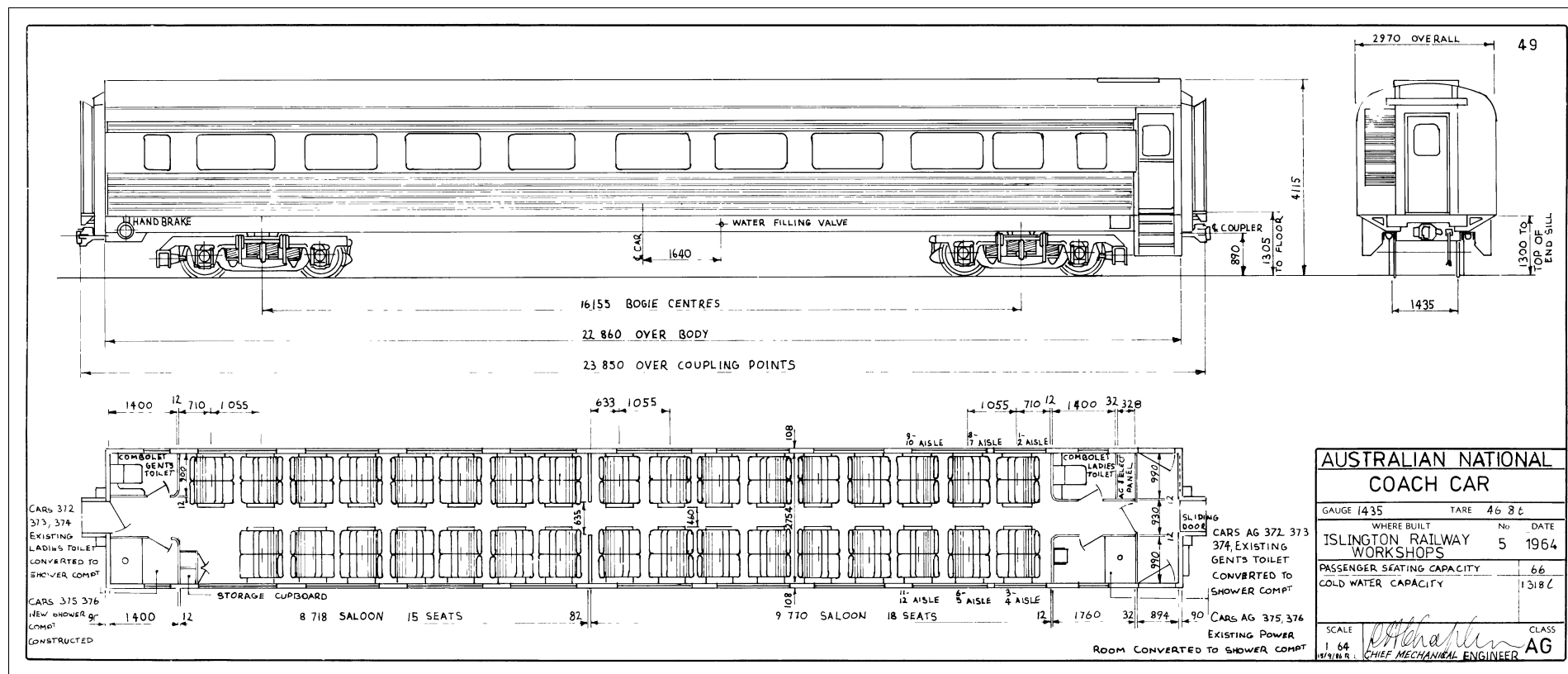
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio = 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

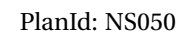
Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T Fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 43 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



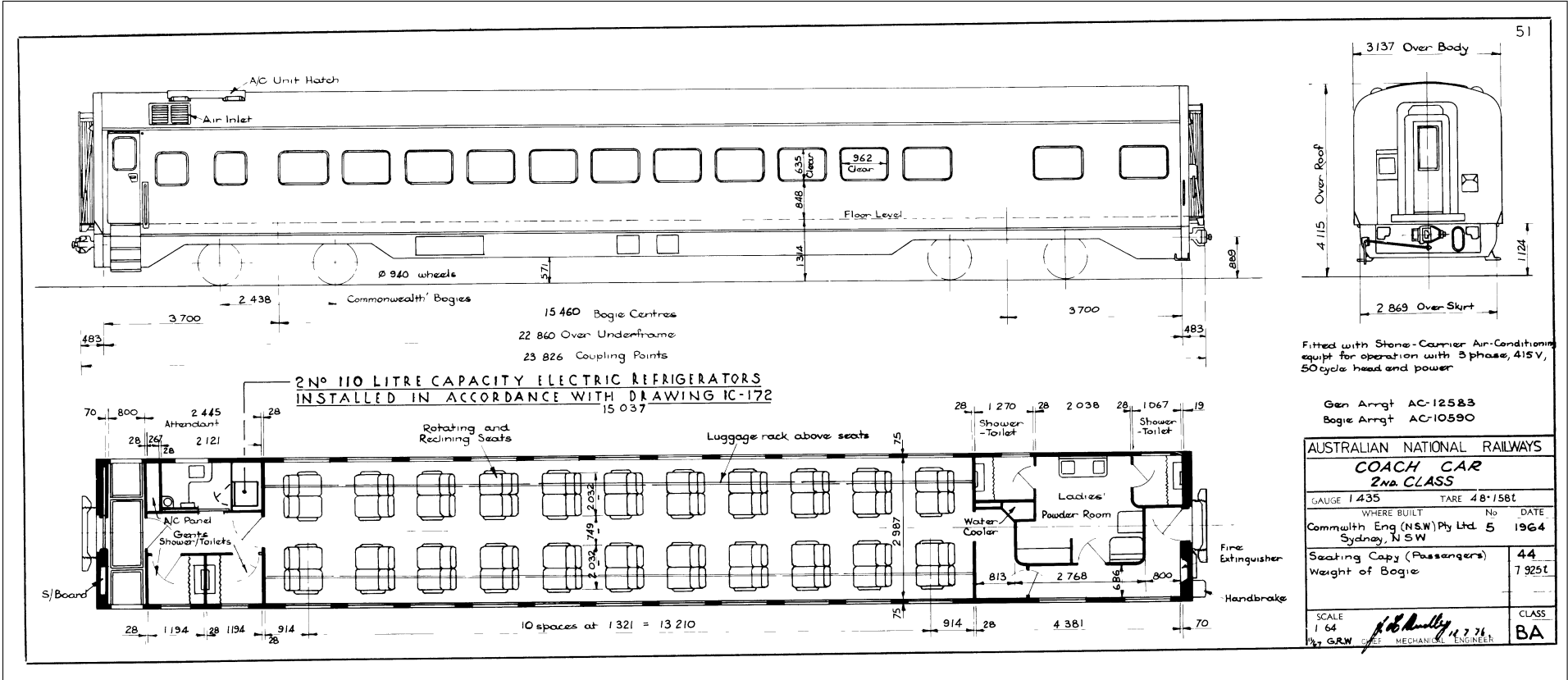
8.1 AG Coach Car



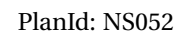
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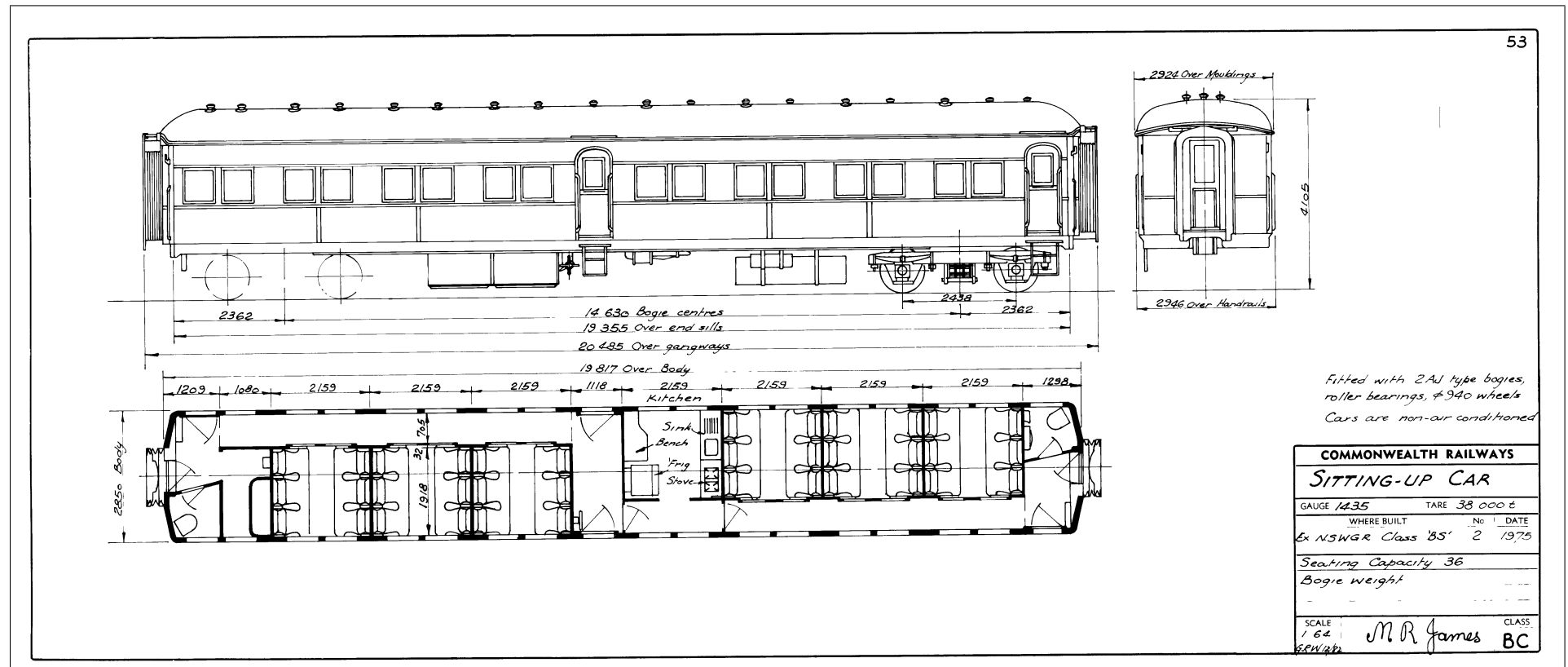
8.3 BA 2nd Class Coach Car



PlanId: NS051

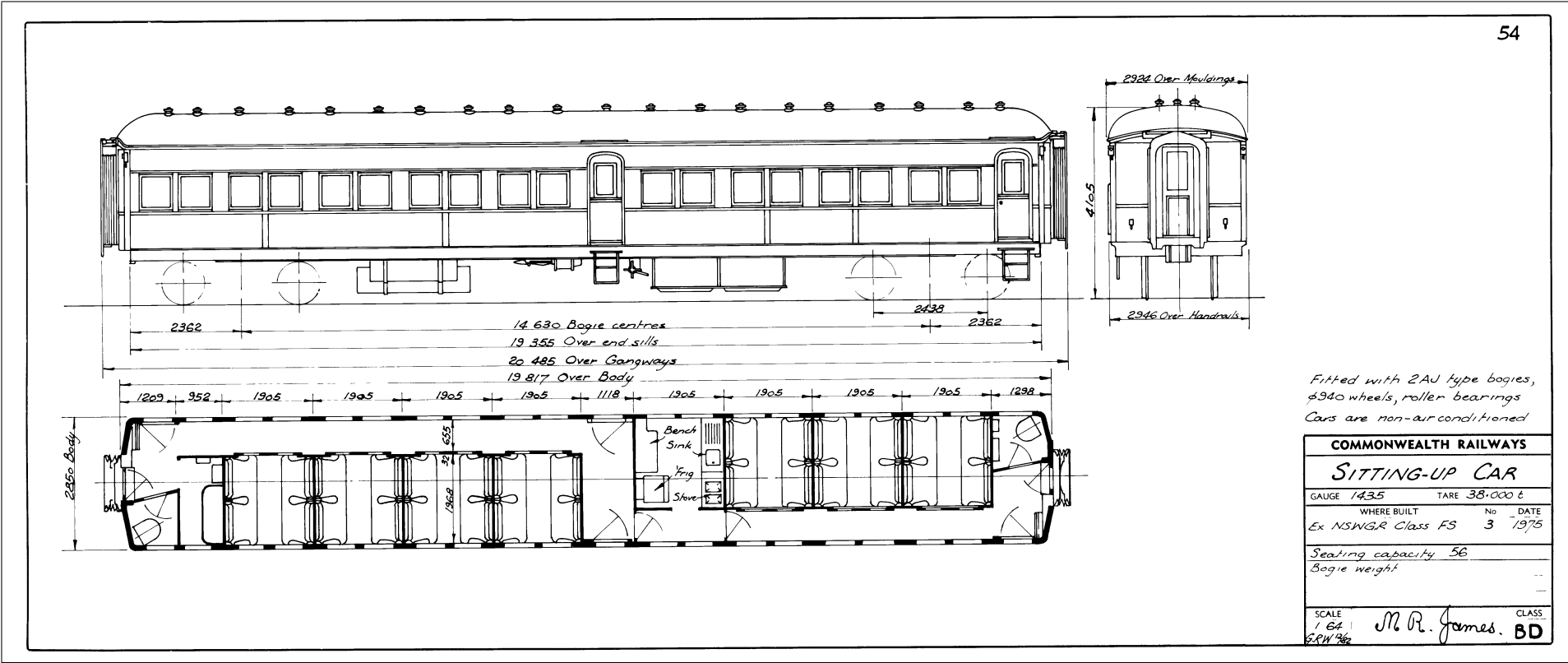


8.5 BC Sitting-Up Car



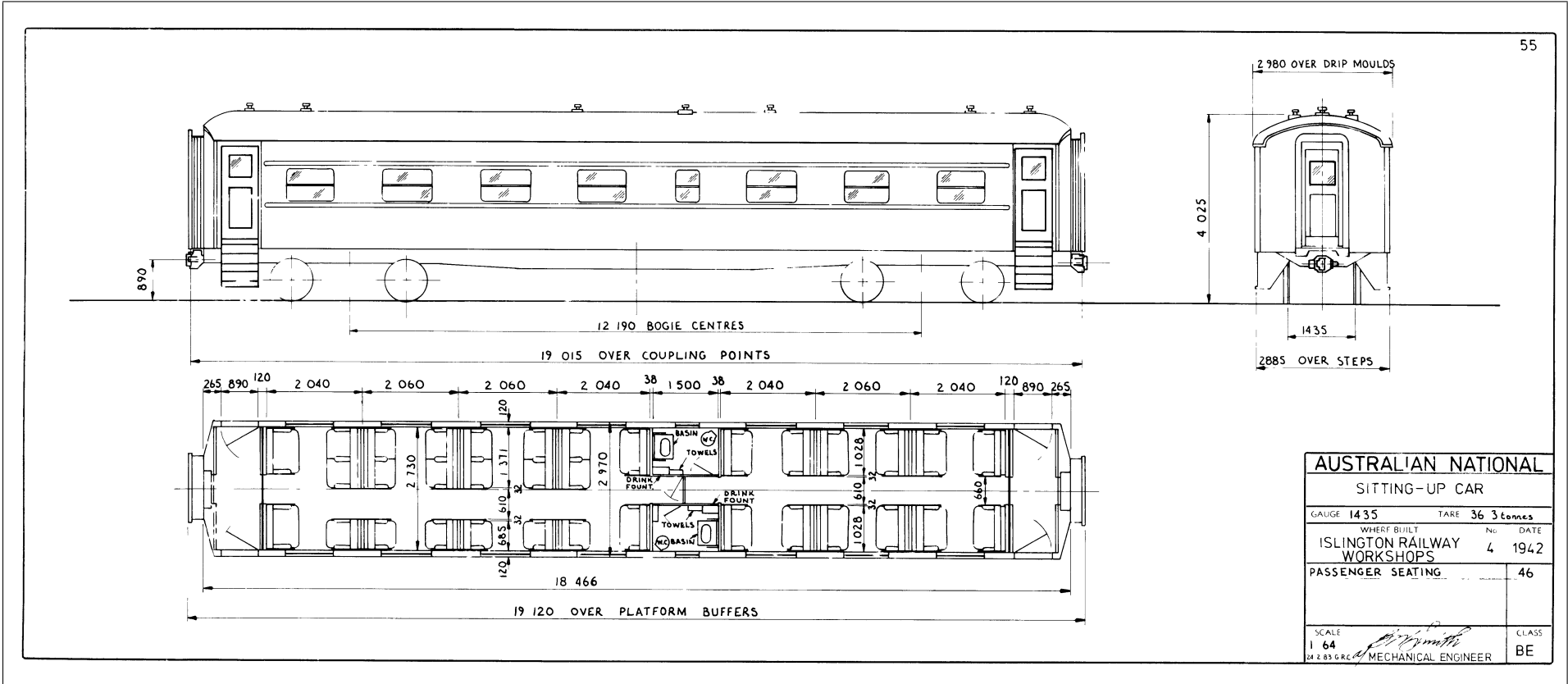
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8.6 BD Sitting-Up Car

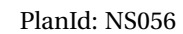


PlanId: NS054

8.7 BE Sitting-Up Car



PlanId: NS055





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FIRST CLASS SLEEPING CARS

9.1	AR Sleeping Car	57
9.2	ARD 1st Class Sleeping Car	58
9.3	ARE 1st Class Cabin Car	59
9.4	ARF 1st Class Sleeping Car	60
9.5	ARH 1st Class Sleeping Car	61
9.6	ARJ 1st Class Roomette Sleeping Car	62
9.7	ARL 1st Class Twinette Sleeping Car	63
9.8	ARM 1st Class Twinette Deluxe Car	64

GENERAL

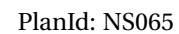
Diesel Engine General Motors EMD Type 16-567B, Two Strokes
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 55 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

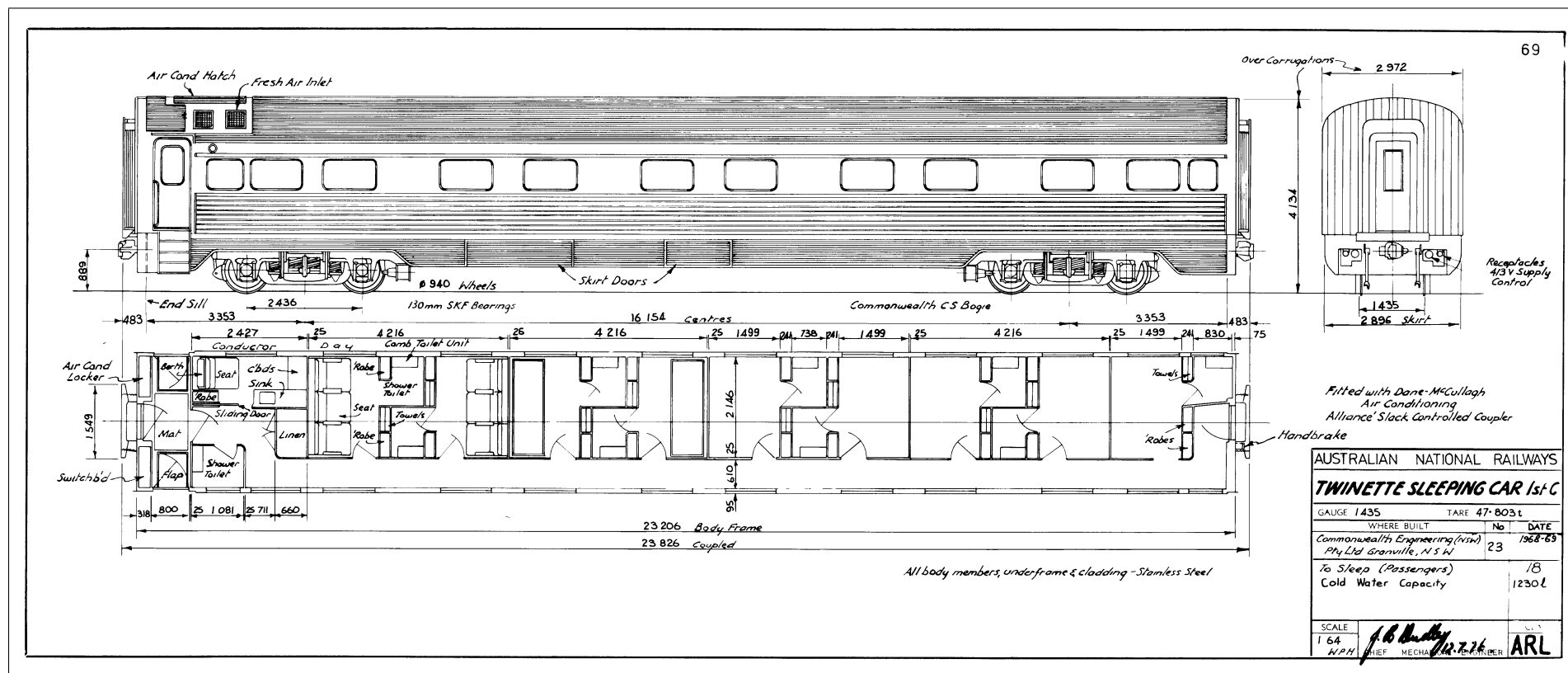






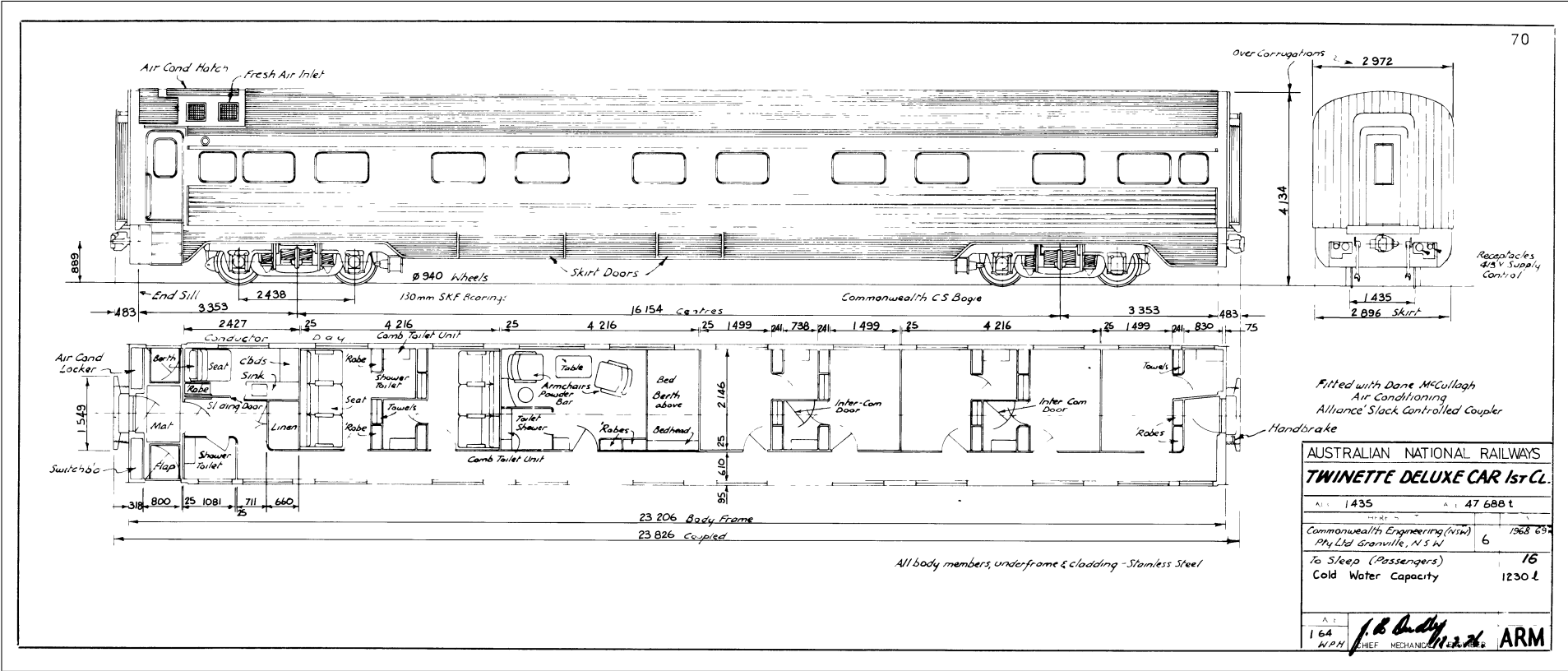


9.7 ARL 1st Class Twinette Sleeping Car



PlanId: NS069

9.8 ARM 1st Class Twinette Deluxe Car



PlanId: NS070



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CHAPTER

10

ECONOMY CLASS SLEEPING CARS

10.1 BR Sleeping Car	67
10.2 BRA Sleeping Car	68
10.3 BRB Sleeping Car (for Transport Drivers)	69
10.4 BRD 2nd Class Sleeping Car	70
10.5 BRE 2nd Class Sleeping Car	71
10.6 BRF Sleeping Car (for Transport Drivers)	72
10.7 BRFC 2nd Class Sleeping Car and Lounge	73
10.8 BRFD Economy Sleeping Lounge Car	74
10.9 BRG Economy Sleeping Car	75
10.10 BRJ Economy Sleeping Car	76
10.11 ER Dormitory Car	77

GENERAL

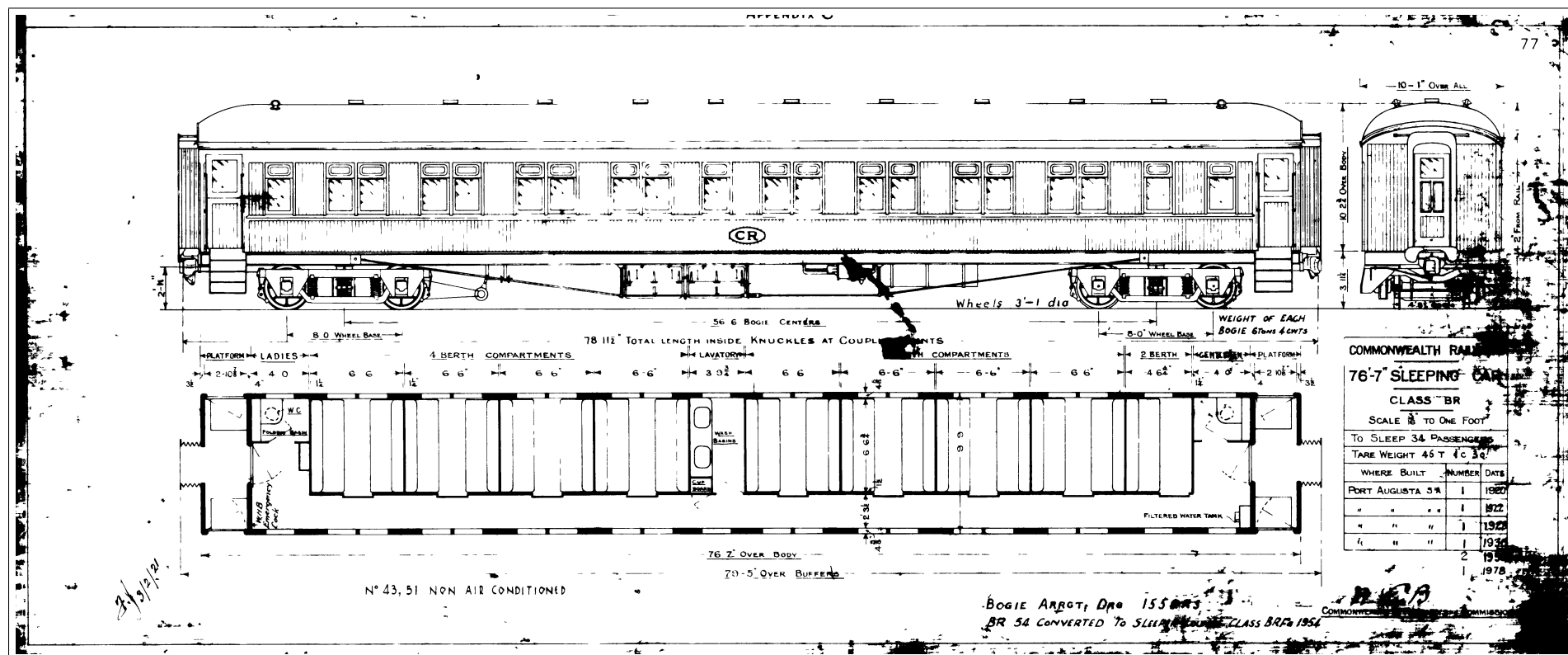
Diesel Engine General Motors EMD Type 16-567B, Two Strokes
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

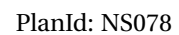
Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 36T Fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 65 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

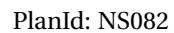


10.1 BR Sleeping Car



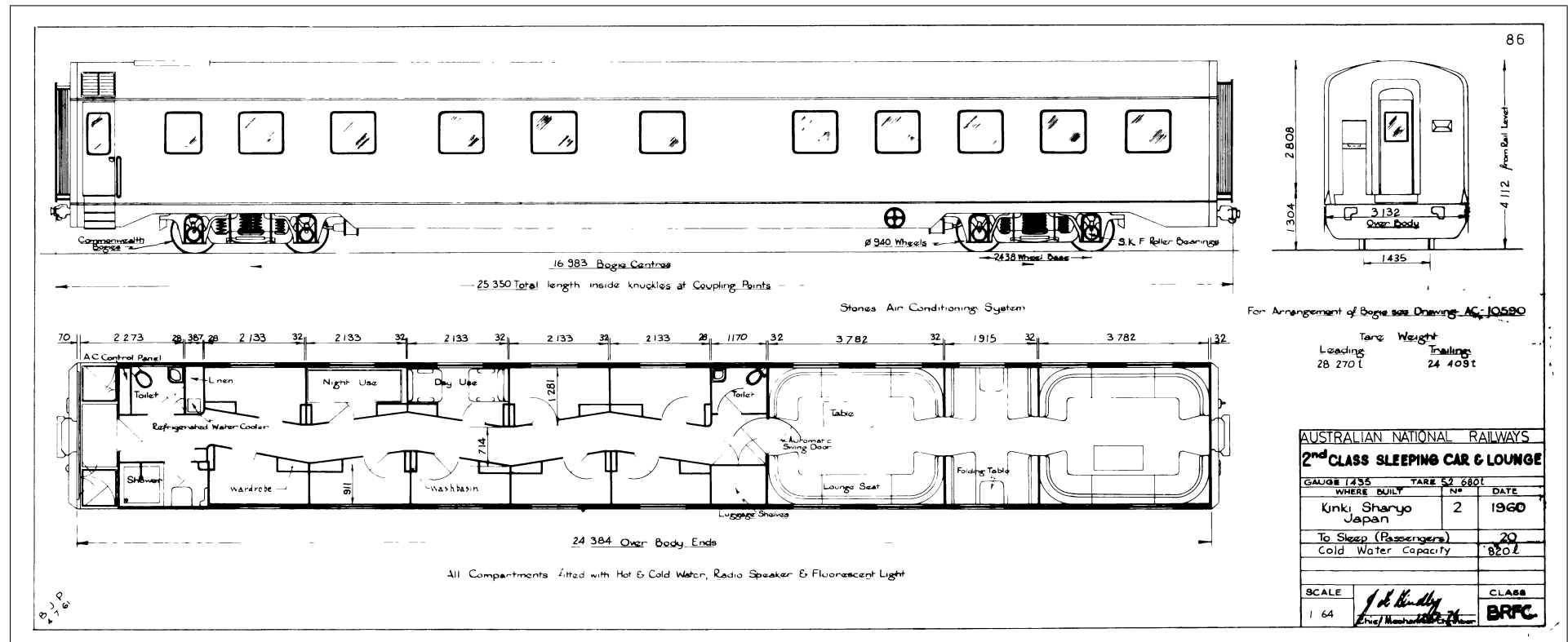
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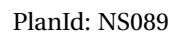


10.7 BRFC 2nd Class Sleeping Car and Lounge

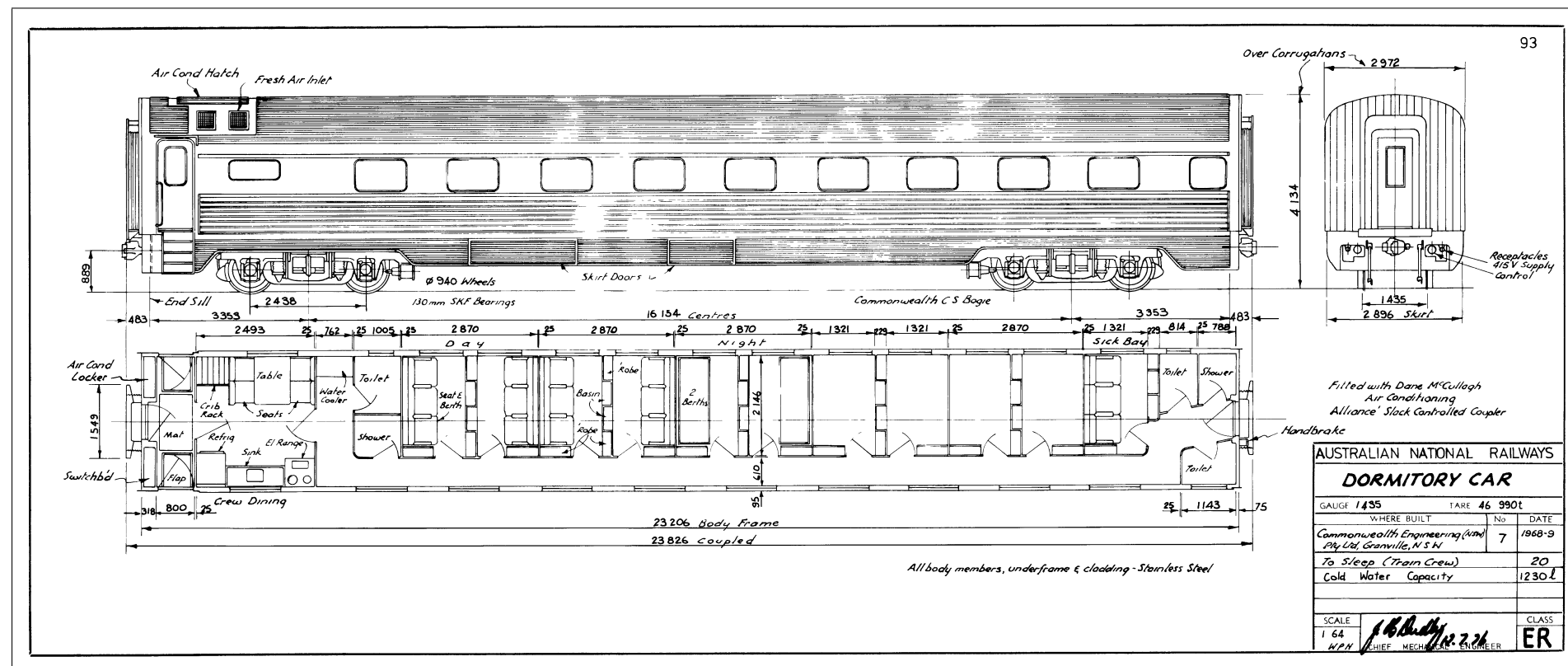


PlanId: NS086





10.11 ER Dormitory Car



PlanId: NS093



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CHAPTER

11

BRAKE VANS

11.1	AVDY Brake and Crew van	81
11.2	AVEY Brake and Crew Van	82
11.3	AVFY Relay Van	83
11.4	AFHY Brake Van	84
11.5	AVLY Low Level Brake Van	85
11.6	AVJY Composite Brake Van	86

GENERAL

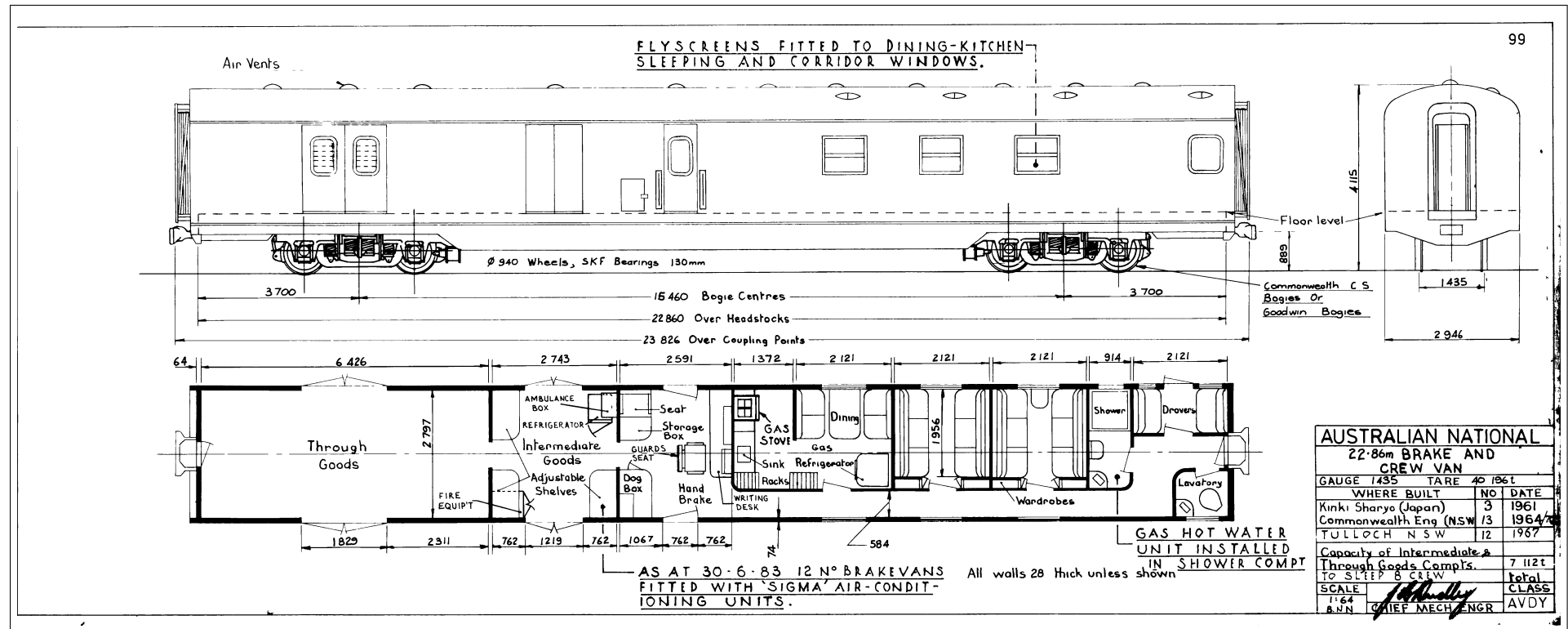
Diesel Engine General Motors EMD Type 161-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 79 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



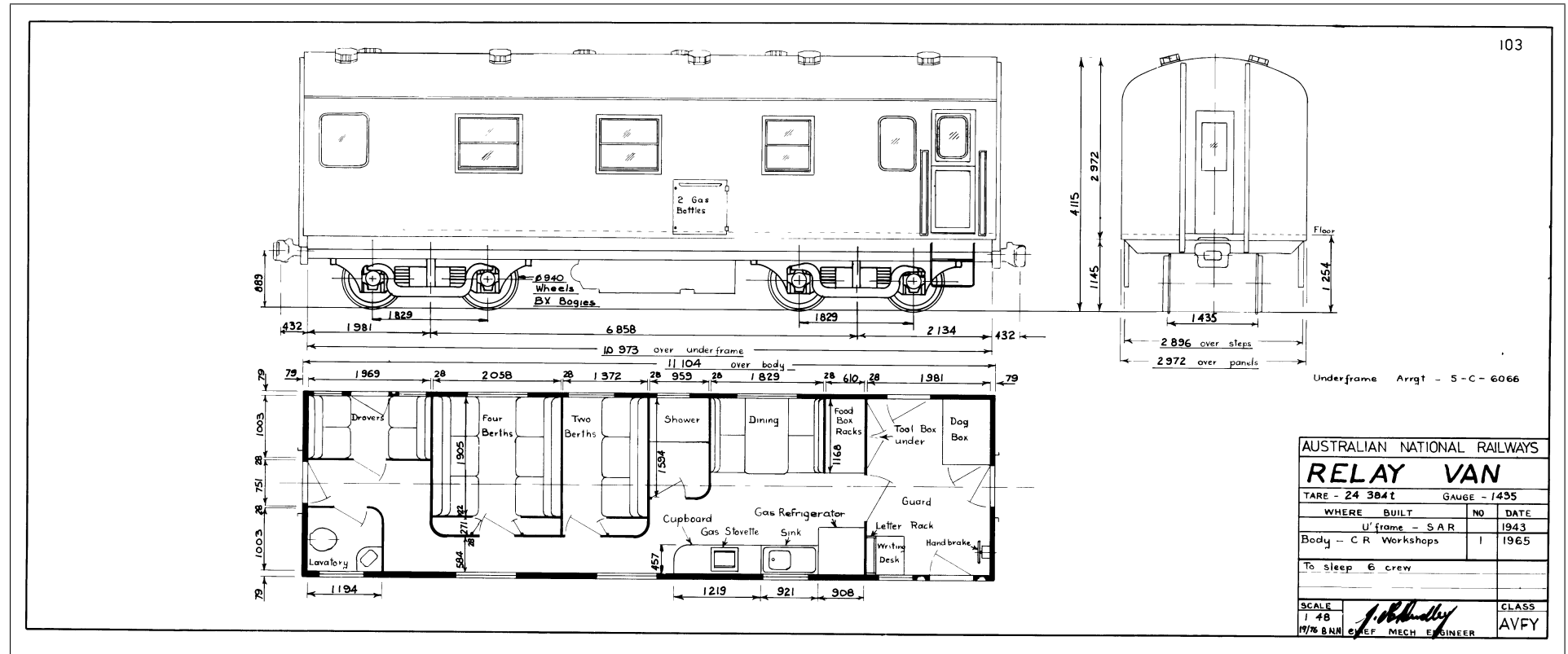
11.1 AVDY Brake and Crew van



PlanId: NS099

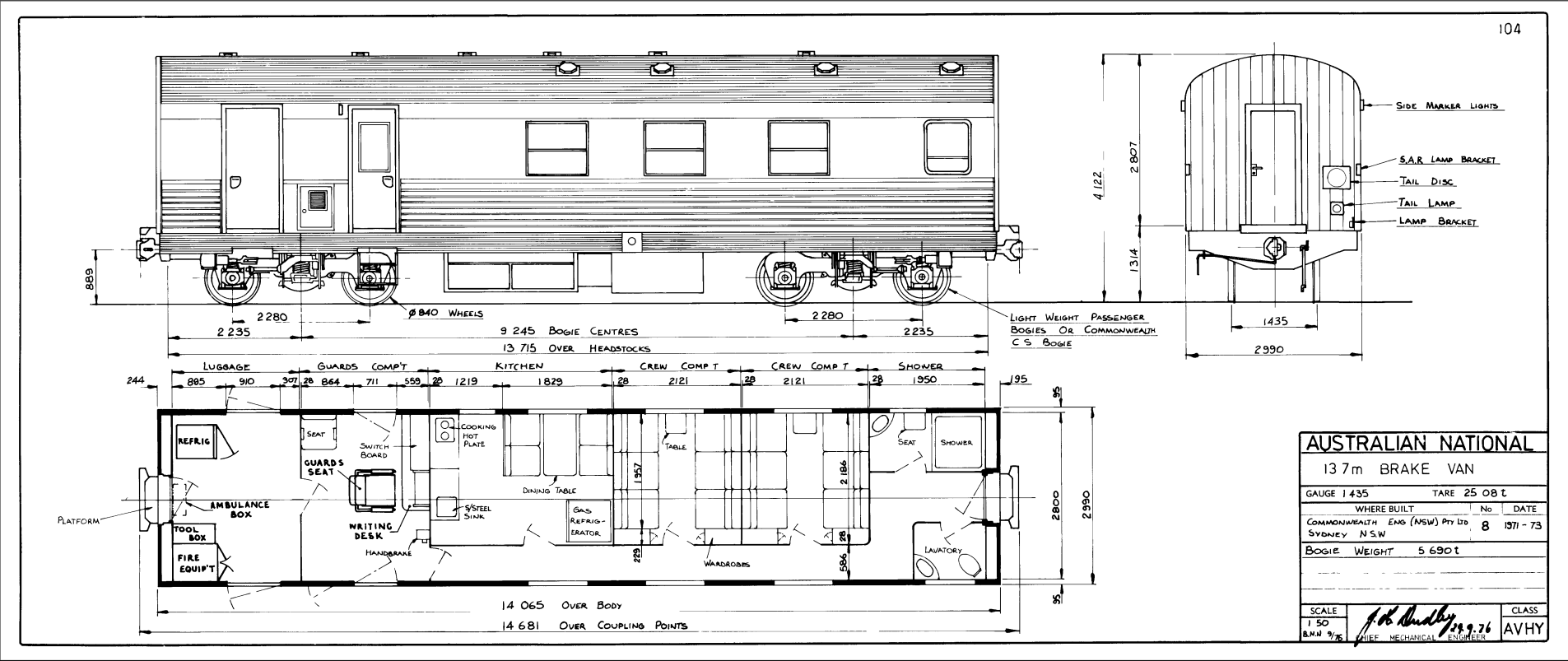


11.3 AVFY Relay Van



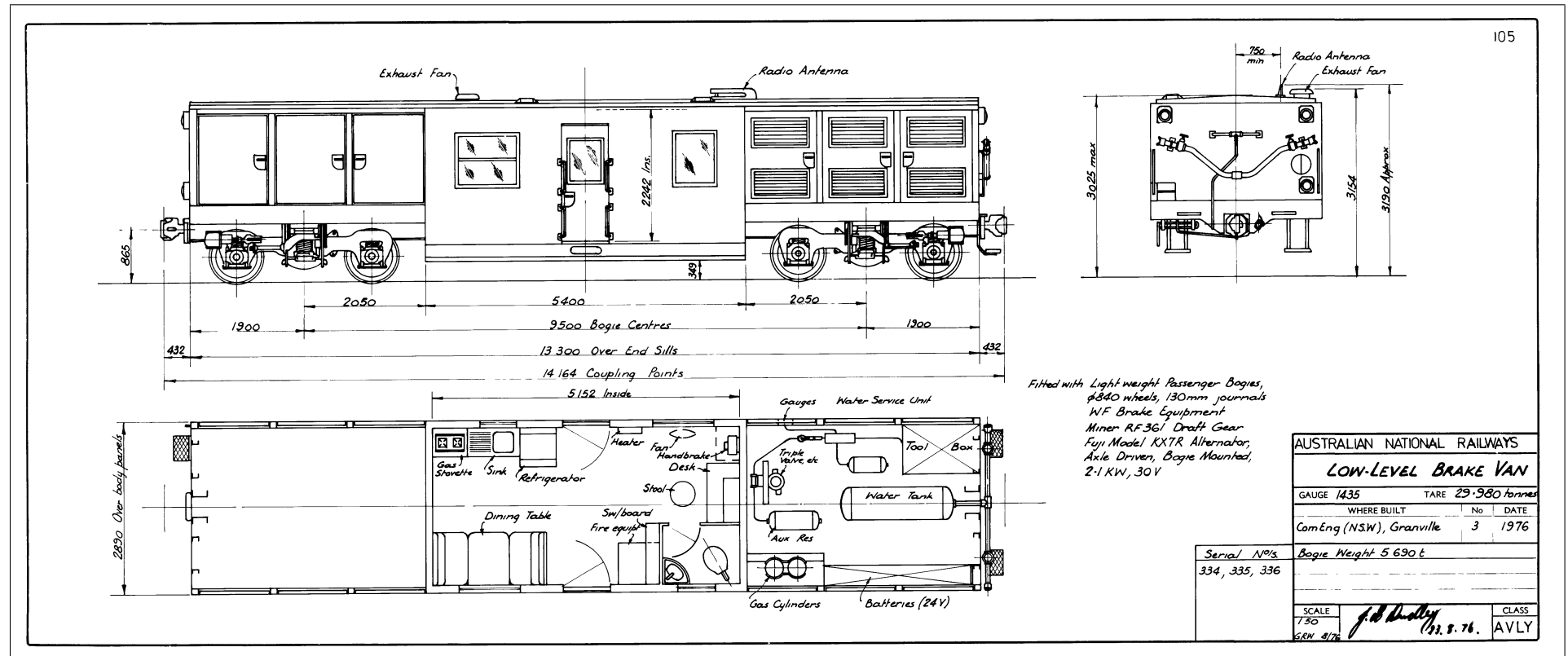
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11.4 AFHY Brake Van

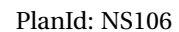


PlanId: NS104

11.5 AVLY Low Level Brake Van



PlanId: NS105





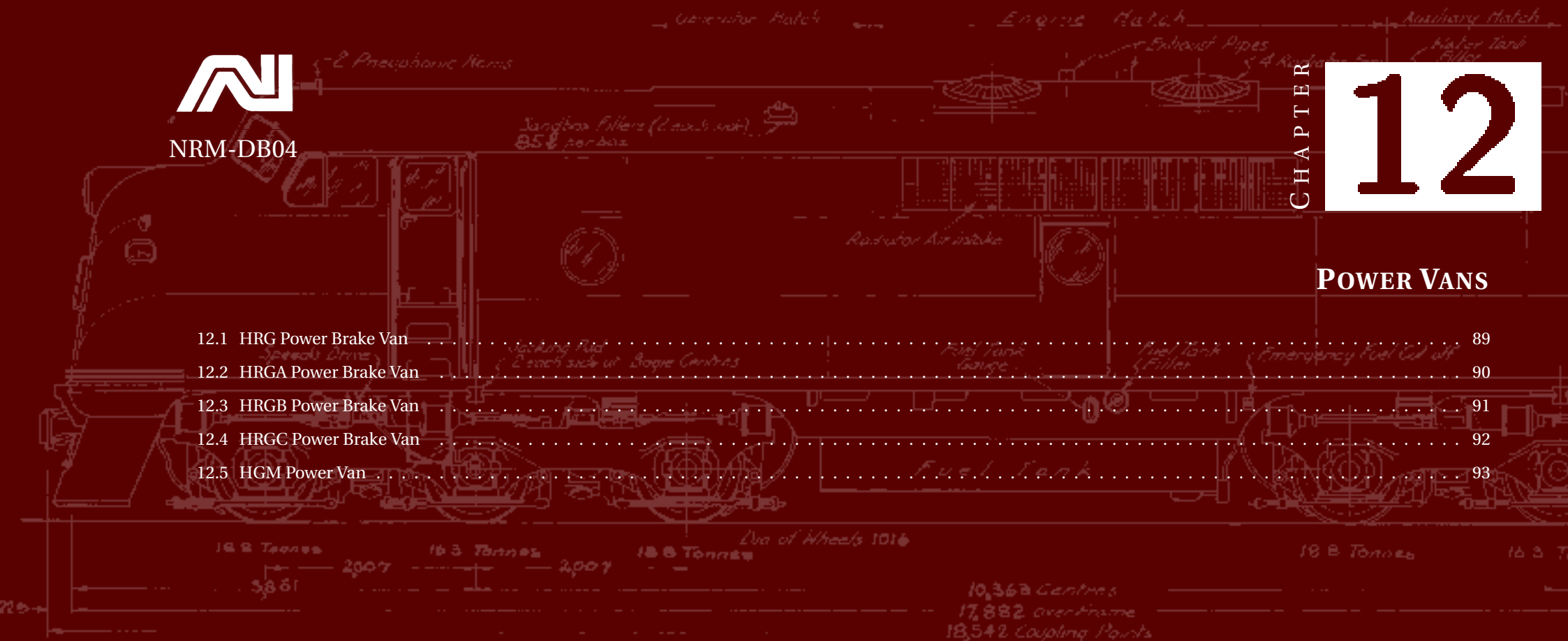
NRM-DB04

CHAPTER

12

POWER VANS

12.1	HRG Power Brake Van	89
12.2	HRGA Power Brake Van	90
12.3	HRGB Power Brake Van	91
12.4	HRGC Power Brake Van	92
12.5	HGM Power Van	93



GENERAL

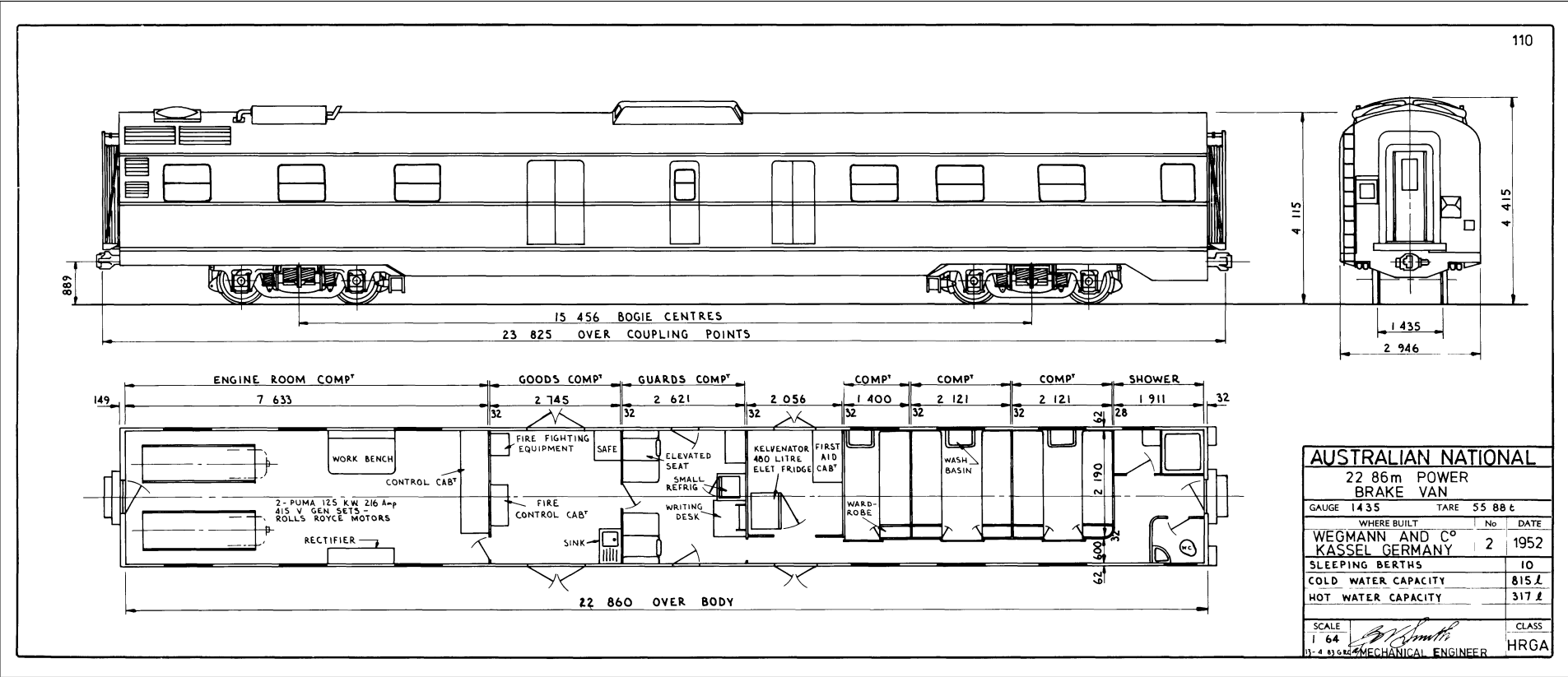
Diesel Engine General Motors EMD Type 161-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 87 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

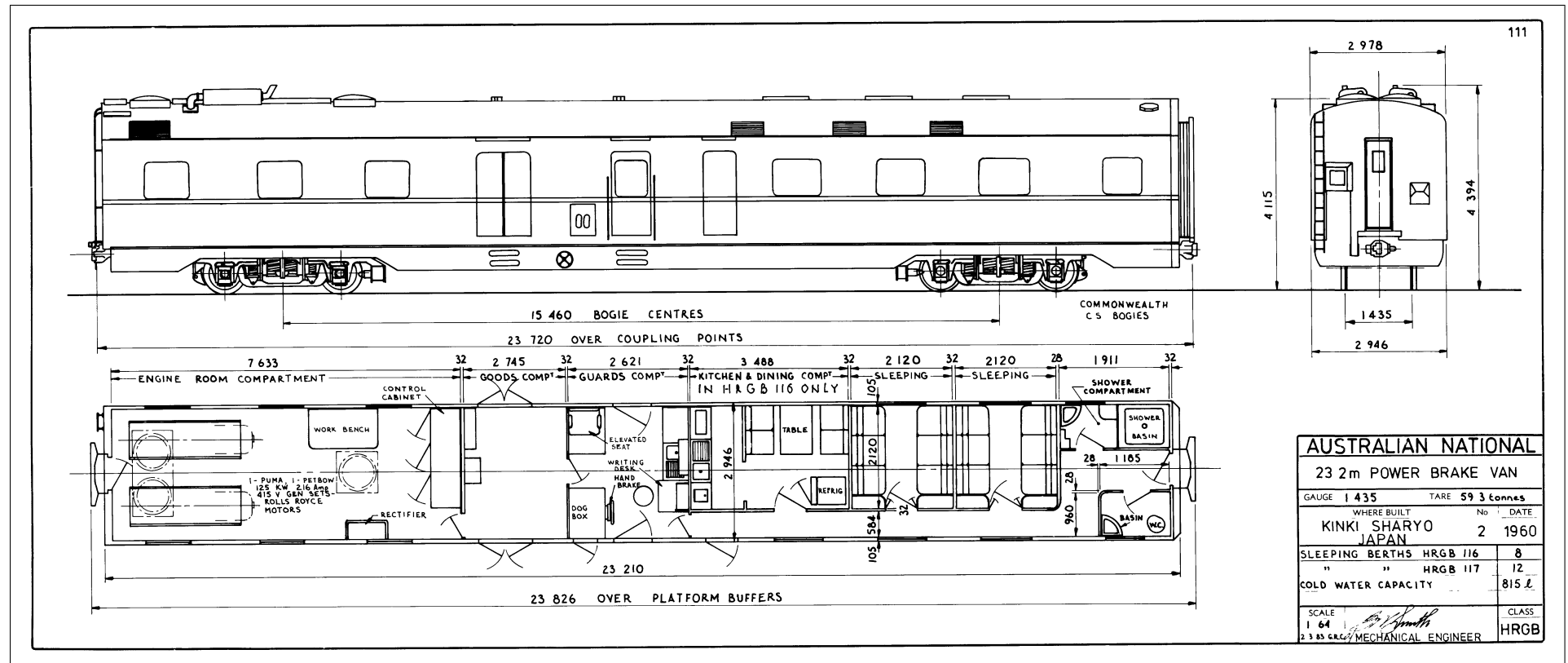


12.2 HRGA Power Brake Van



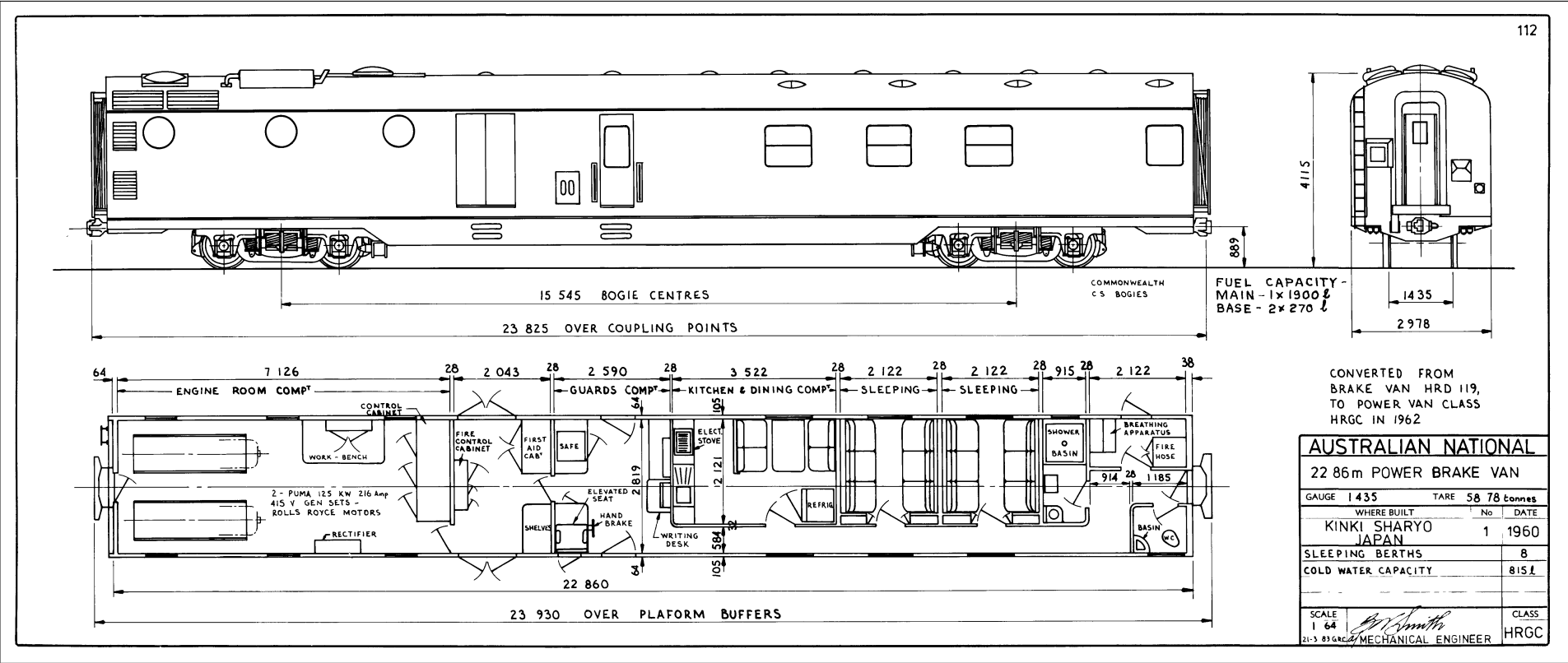
PlanId: NS110

12.3 HRGB Power Brake Van



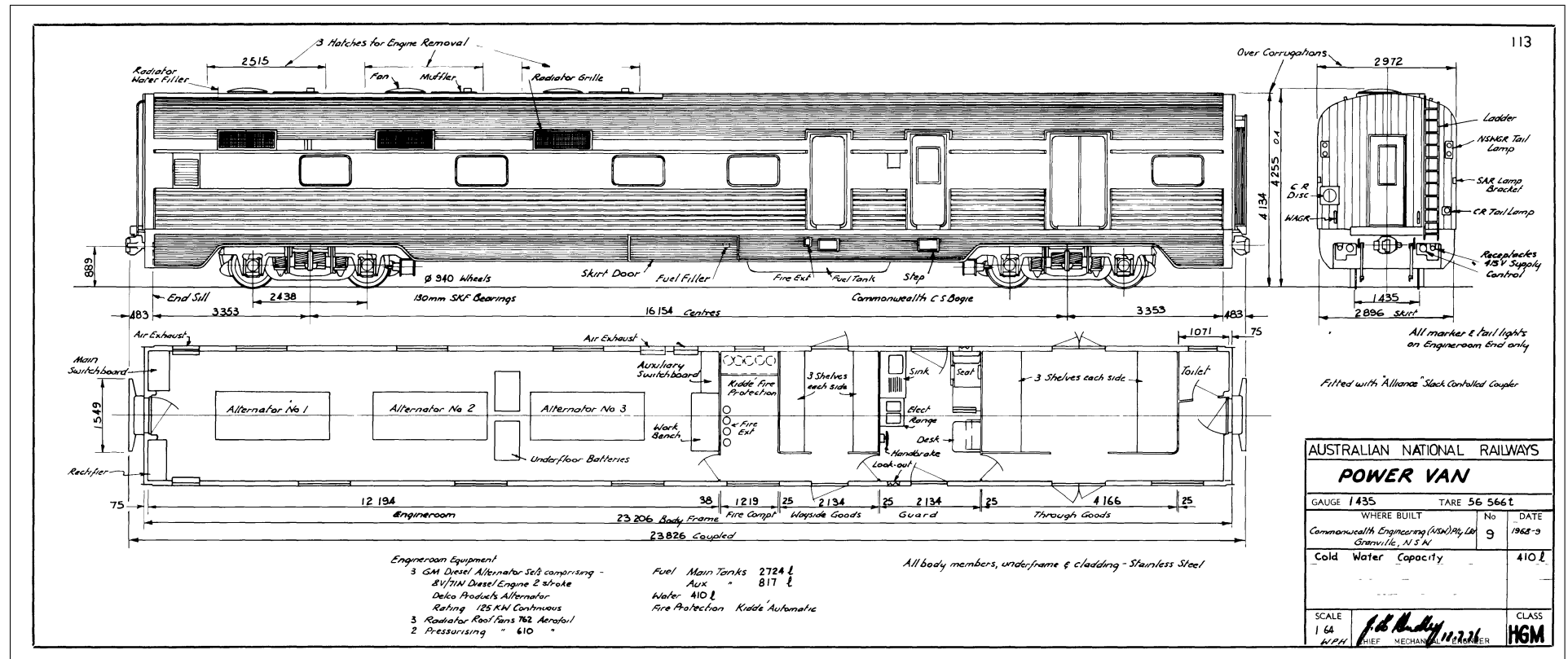
PlanId: NS111

12.4 HRGC Power Brake Van



PlanId: NS112

12.5 HGM Power Van



PlanId: NS113



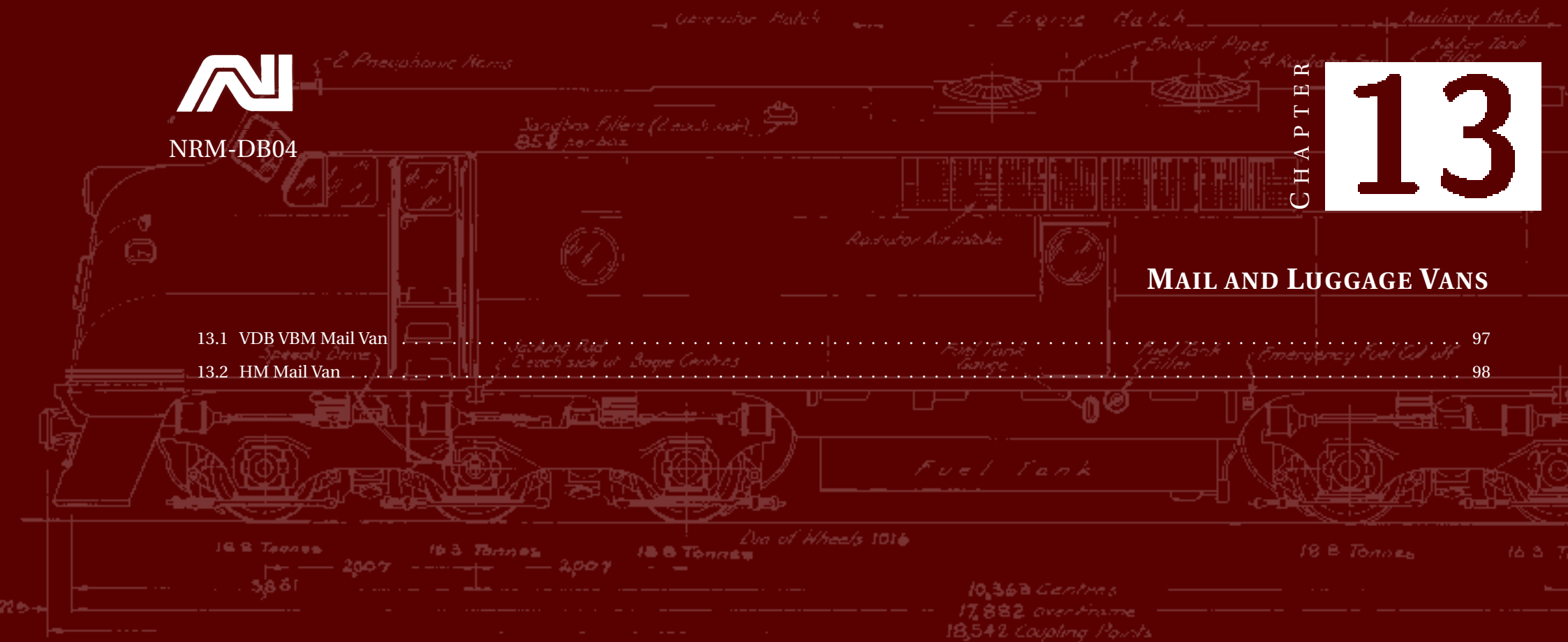
NRM-DB04

CHAPTER

13

MAIL AND LUGGAGE VANS

13.1 VDB VBM Mail Van	97
13.2 HM Mail Van	98

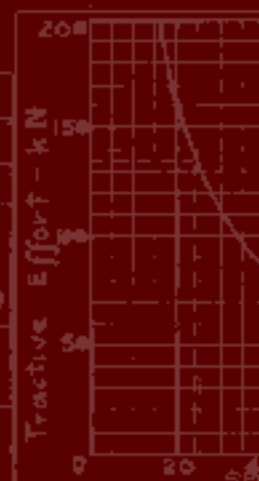


GENERAL

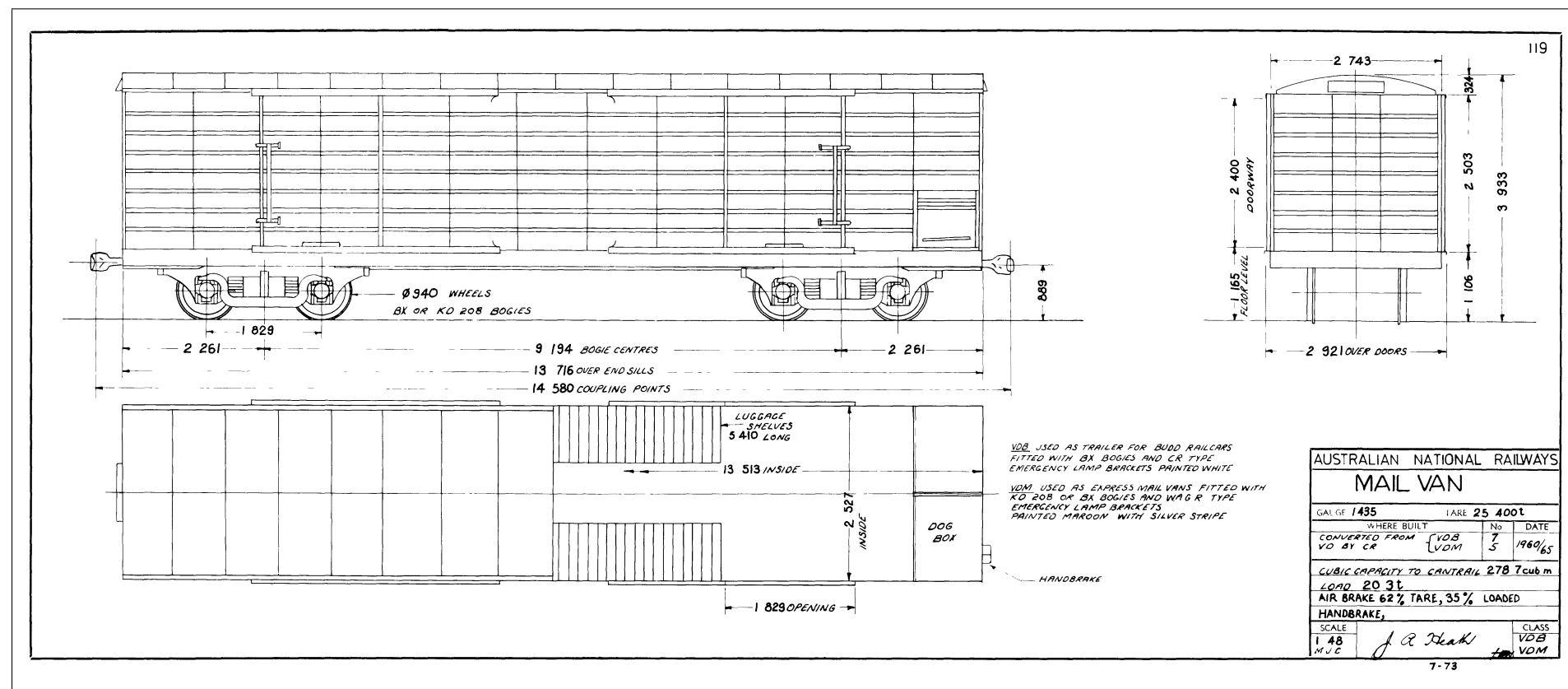
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 95 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Stain Cap 181,818 kg

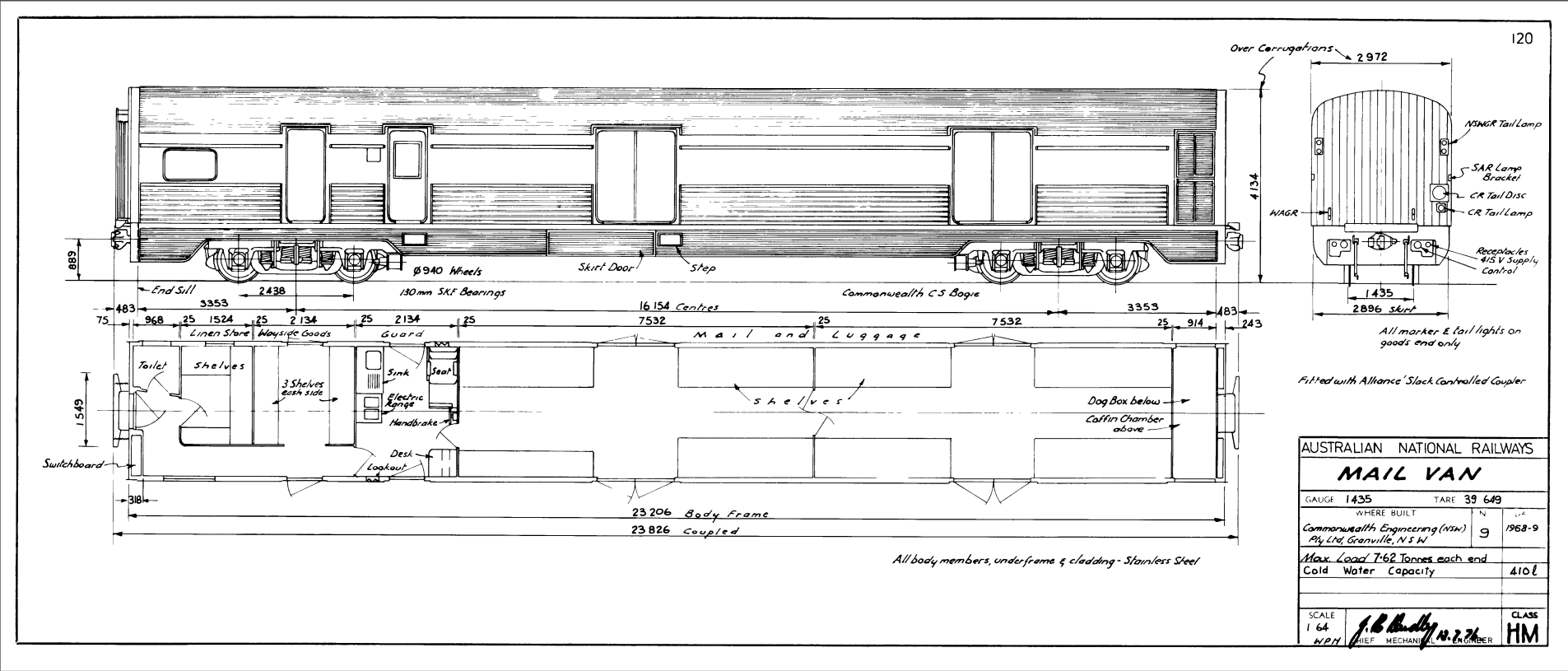


13.1 VDB VBM Mail Van



PlanId: NS119

13.2 HM Mail Van



PlanId: NS120



NRM-DB04

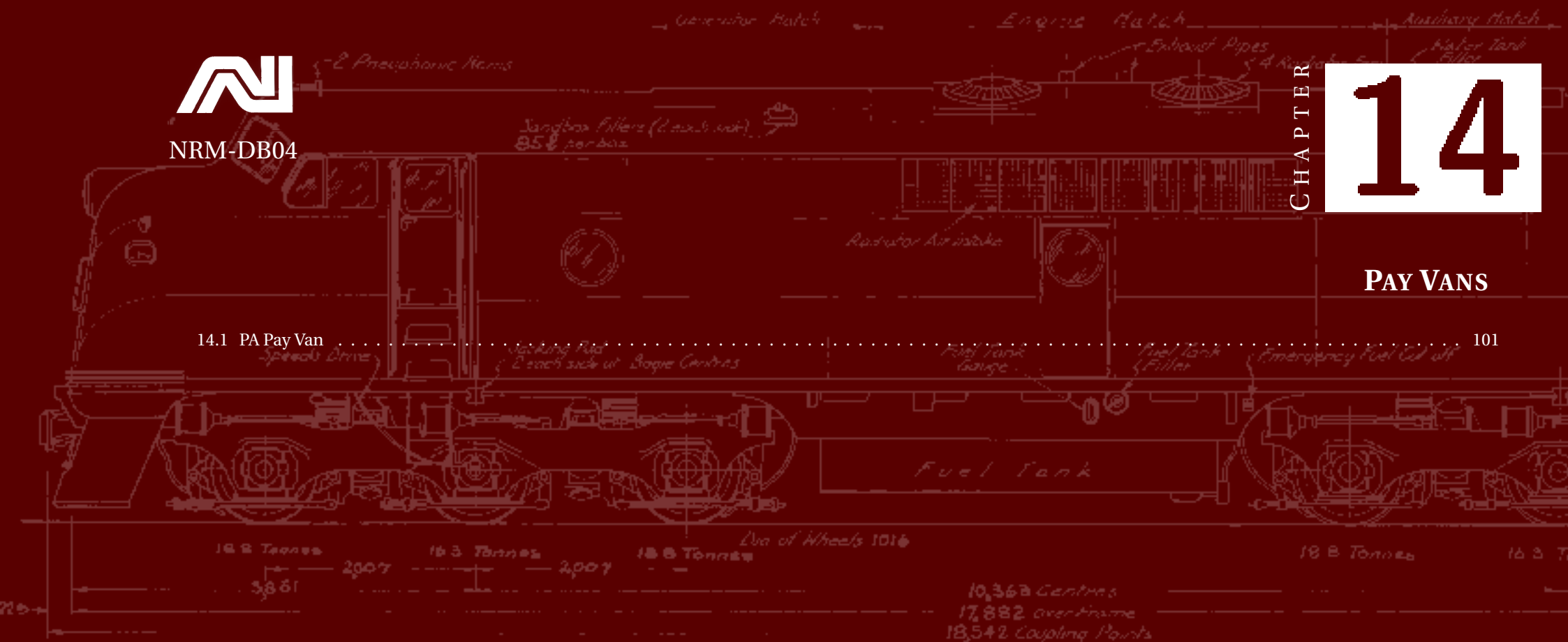
CHAPTER

14

PAY VANS

14.1 PA Pay Van

101



GENERAL

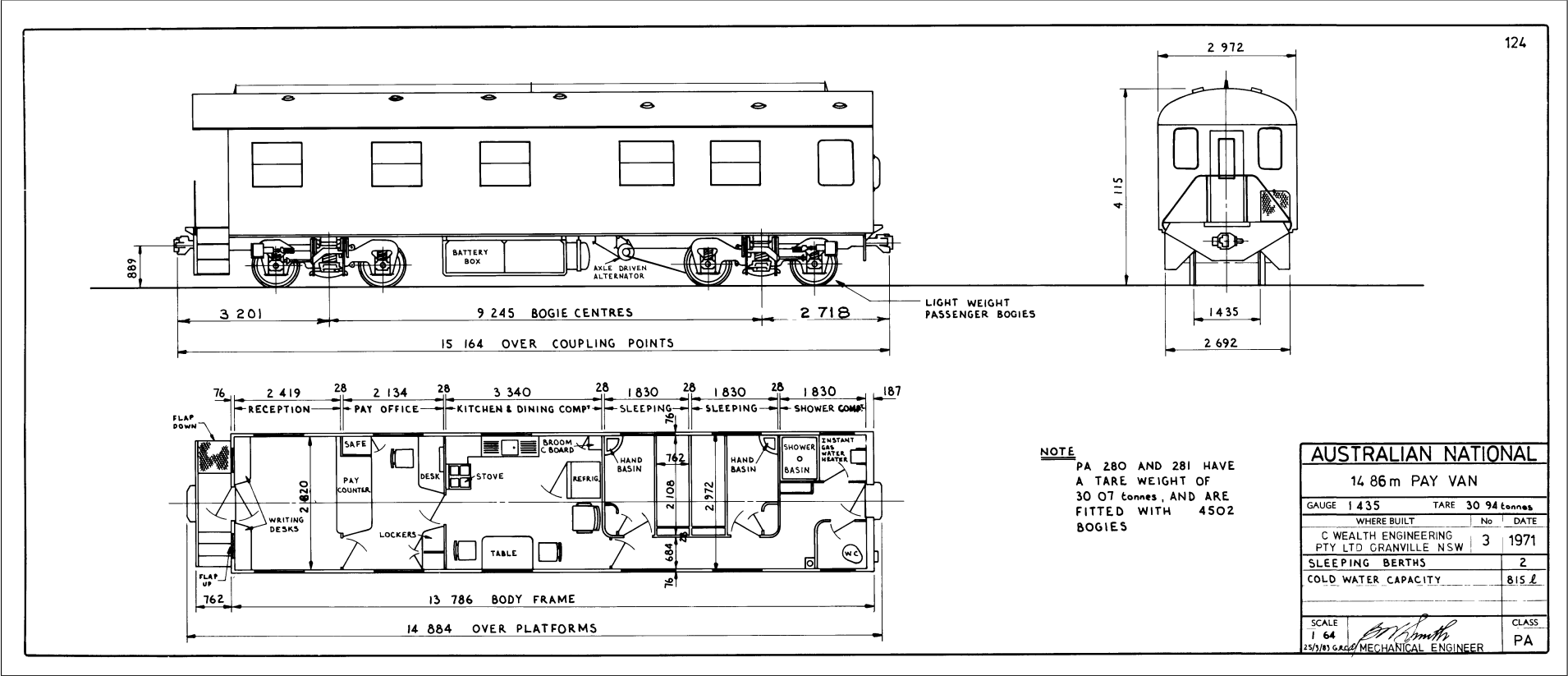
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke
Engine Speed	275-800 RPM
Generator	Model D12 converts 1120 kW for Traction (D.C.)
Alternator	Model D14 for Auxiliaries (A.C.)
Max Tractive Effort	Starting, 25% adhesion = 184 kN
"	Continuous = 132 kN
Four (4) Traction Motors	= 8 Driving Wheels
Gear Ratio	58-19
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity	6,825 litres (approx wt = 57 Tonnes)	
Lubricating Oil Capacity	730 litres	
Cooling Water Capacity	842 litres	
Fans	4 Radiator, 1 Engine Room, 4 Traction Motor	
Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T fuel)	
"	One Bogie Complete	23,403 kg
"	Engine & Generator	21,364 kg
"	99 Driving Wheels	75 Tonnes
Draft Gear	Nough Friction Type PA, Static Cap 181,818 kg	



14.1 PA Pay Van



PlanId: NS124



NRM-DB04

CHAPTER

15

COVERED WAGONS

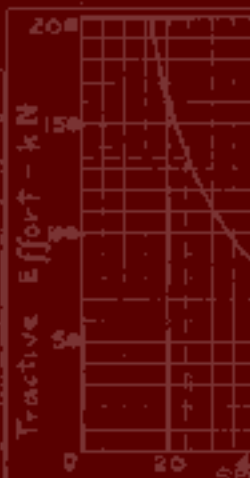
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15.2 V Goods Wagon	106
15.3 VA Goods Wagon	107
15.4 VB Covered Goods Wagon	108
15.5 ABCY Covered Goods Wagon	109
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15.7 ABEX 22.860m Covered Van	111
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GENERAL

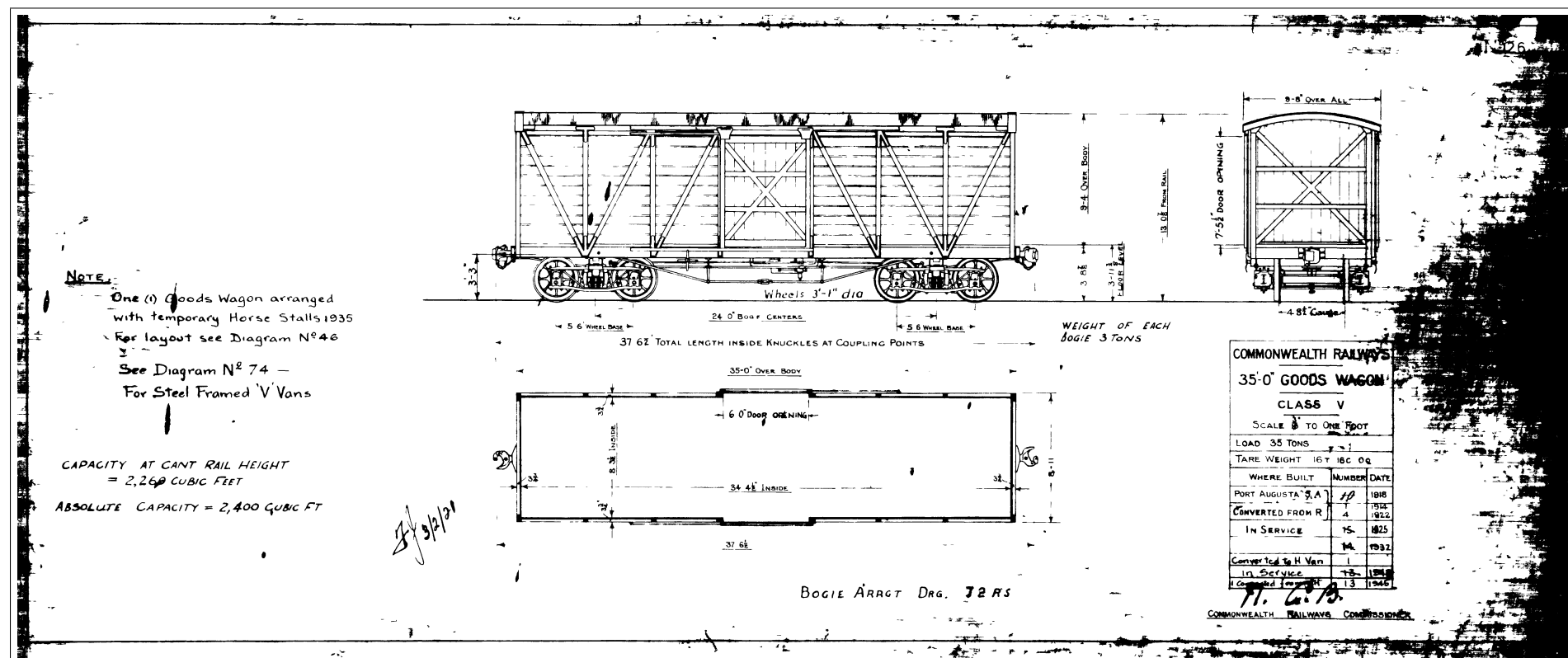
Diesel Engine General Motors EMD Type 161-567B, Two Strokes
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 36T Fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 103 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

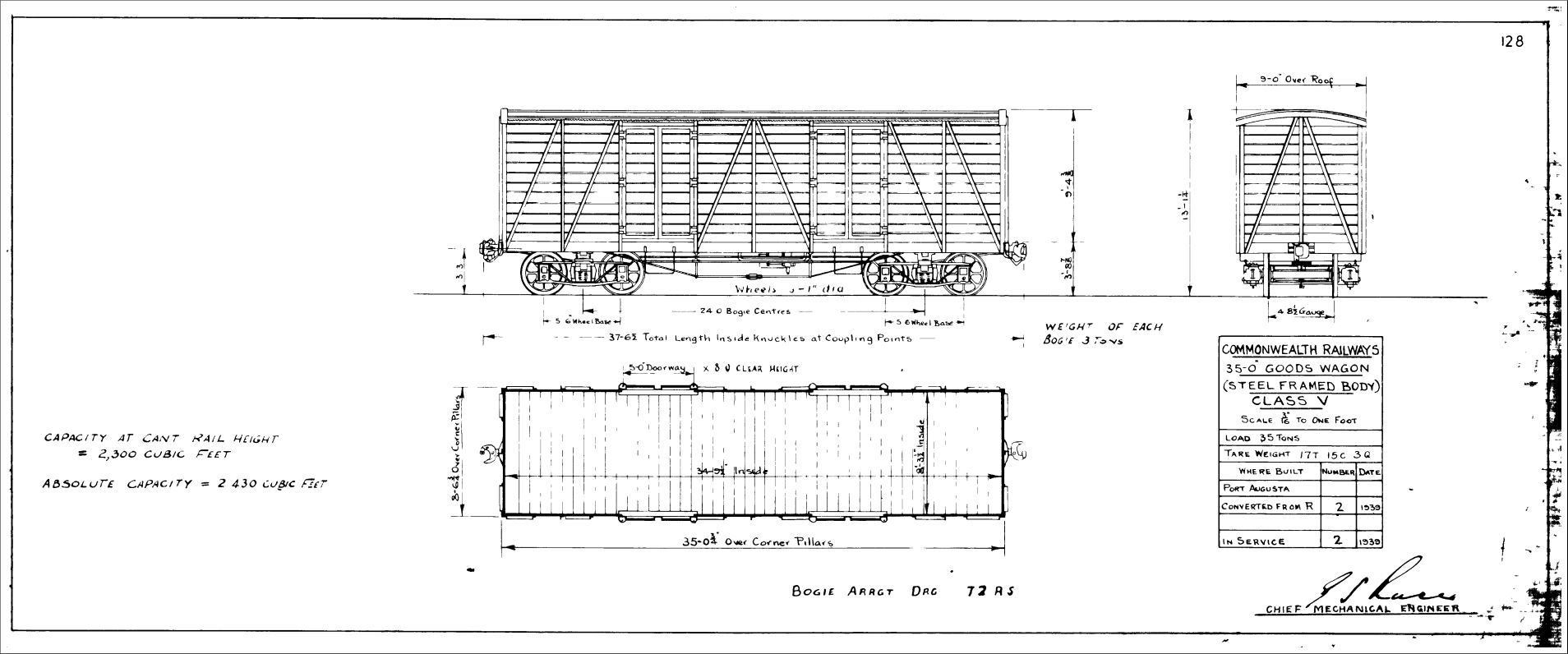


15.1 V Goods Wagon



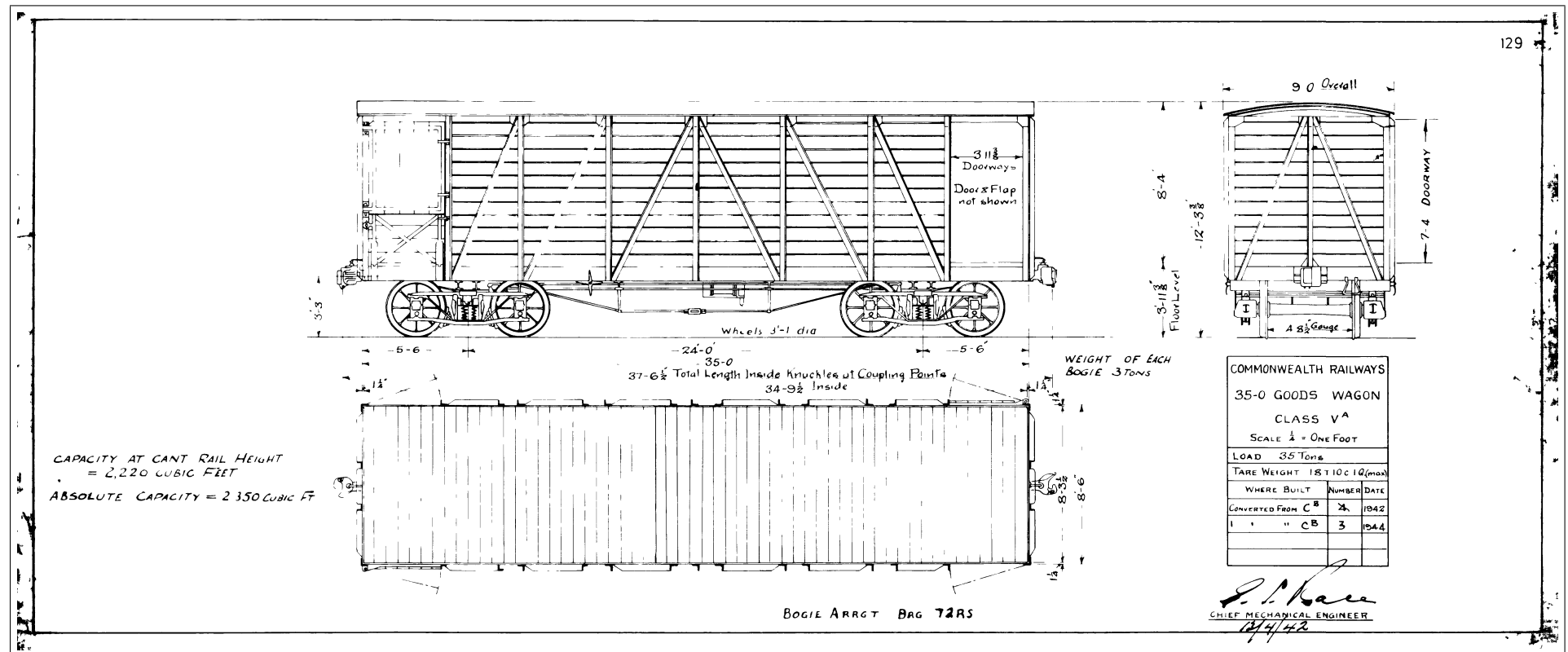
PlanId: NS126

15.2 V Goods Wagon



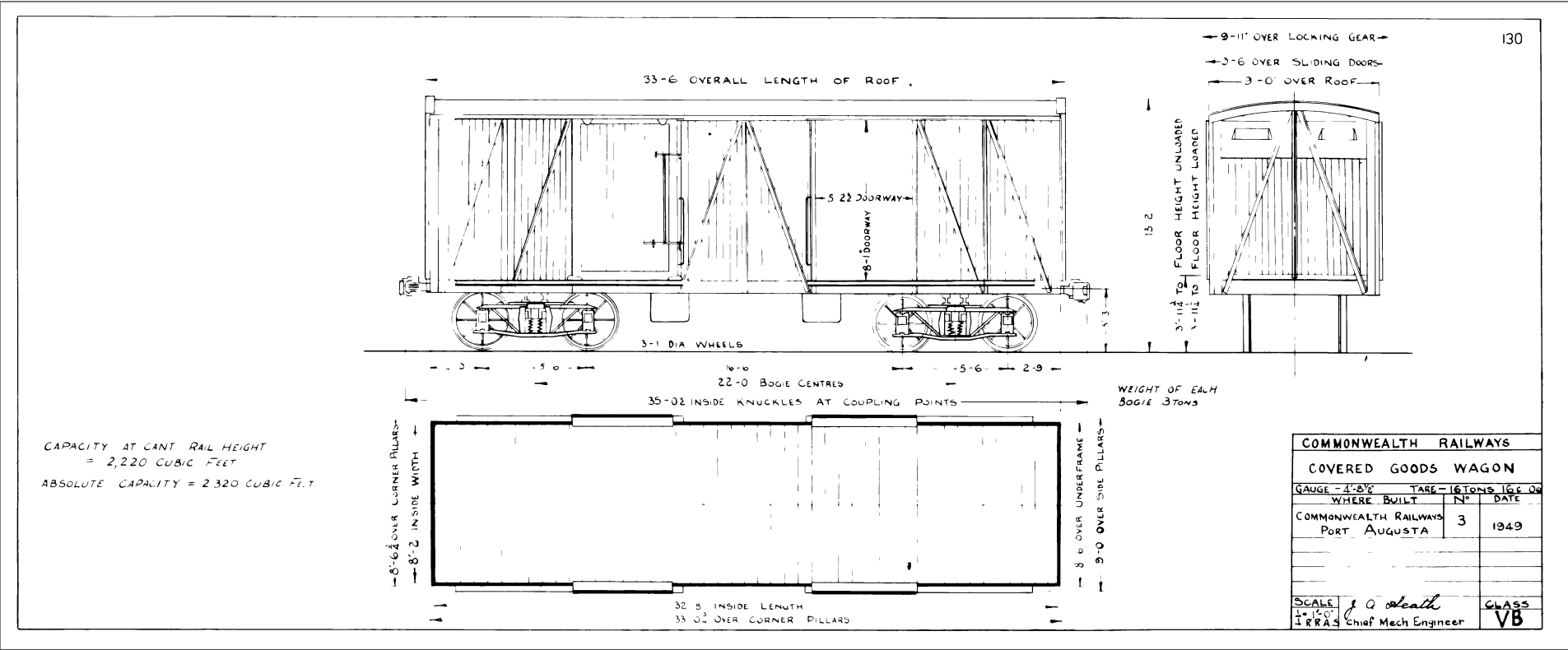
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15.3 VA Goods Wagon



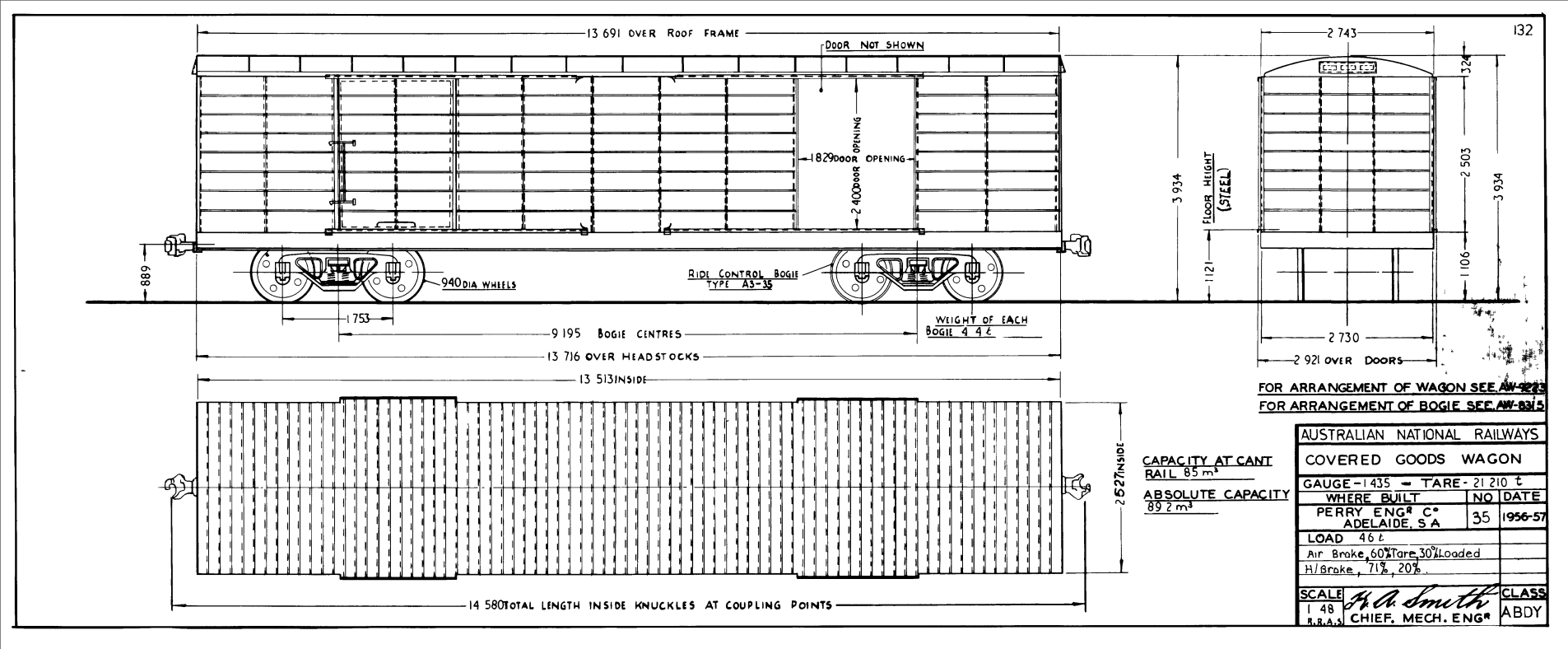
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15.4 VB Covered Goods Wagon



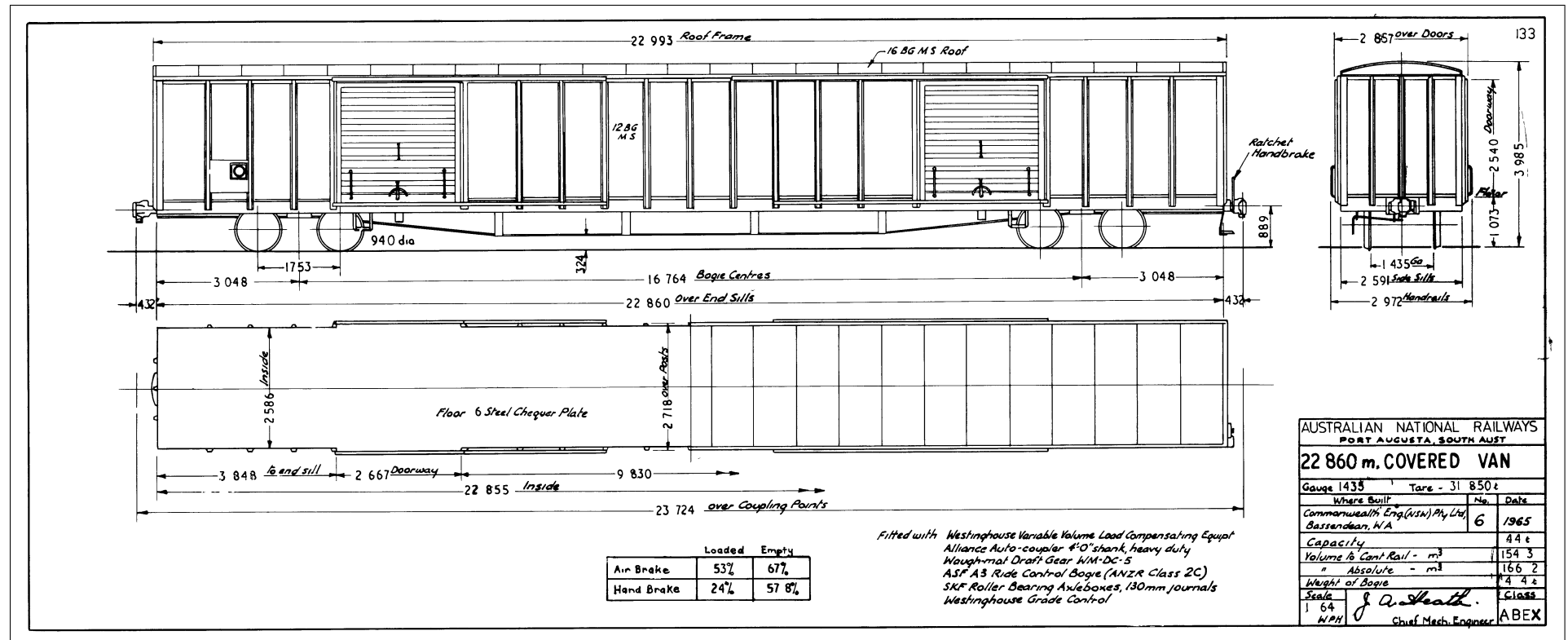
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15.6 ABDY Covered Goods Wagon



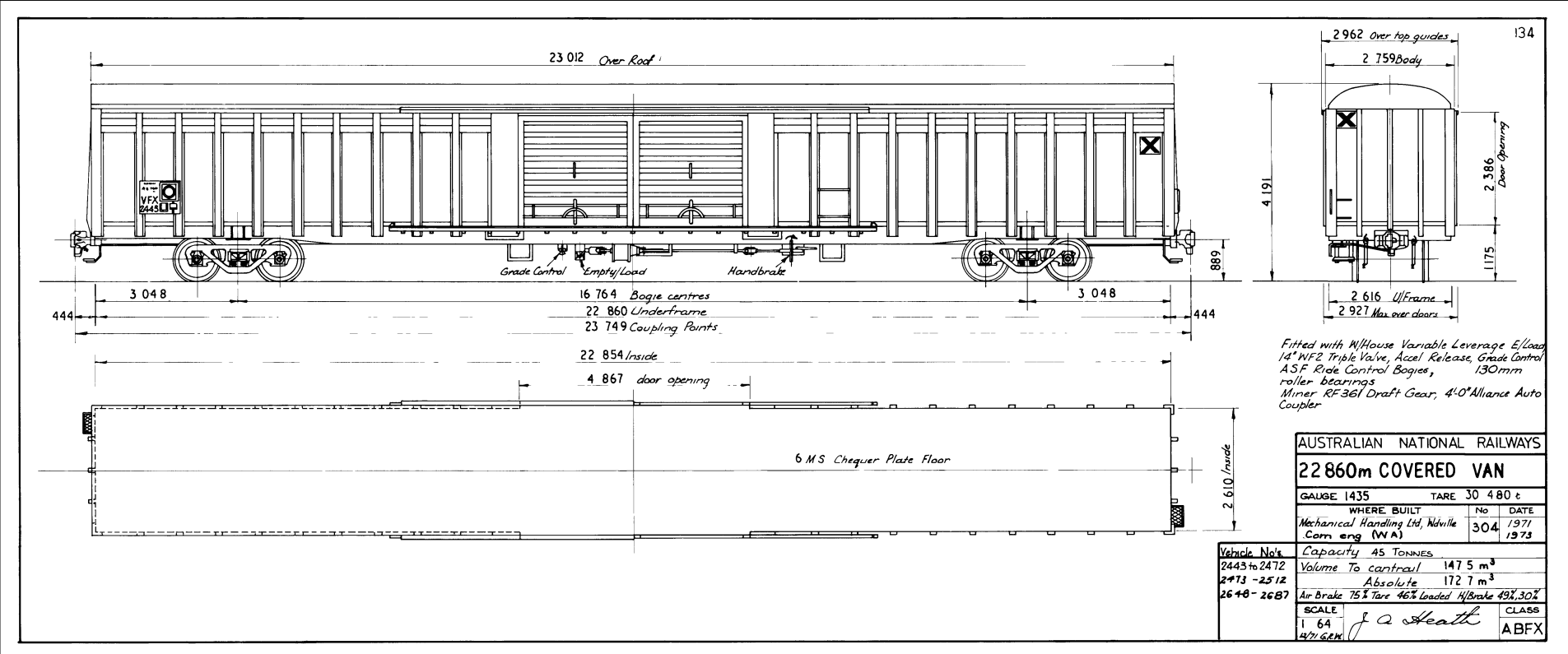
PlanId: NS132

15.7 ABEX 22.860m Covered Van



PlanId: NS133

15.8 ABFX 22.860m Covered Van



PlanId: NS134



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16

LOUVRE WAGONS

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GENERAL

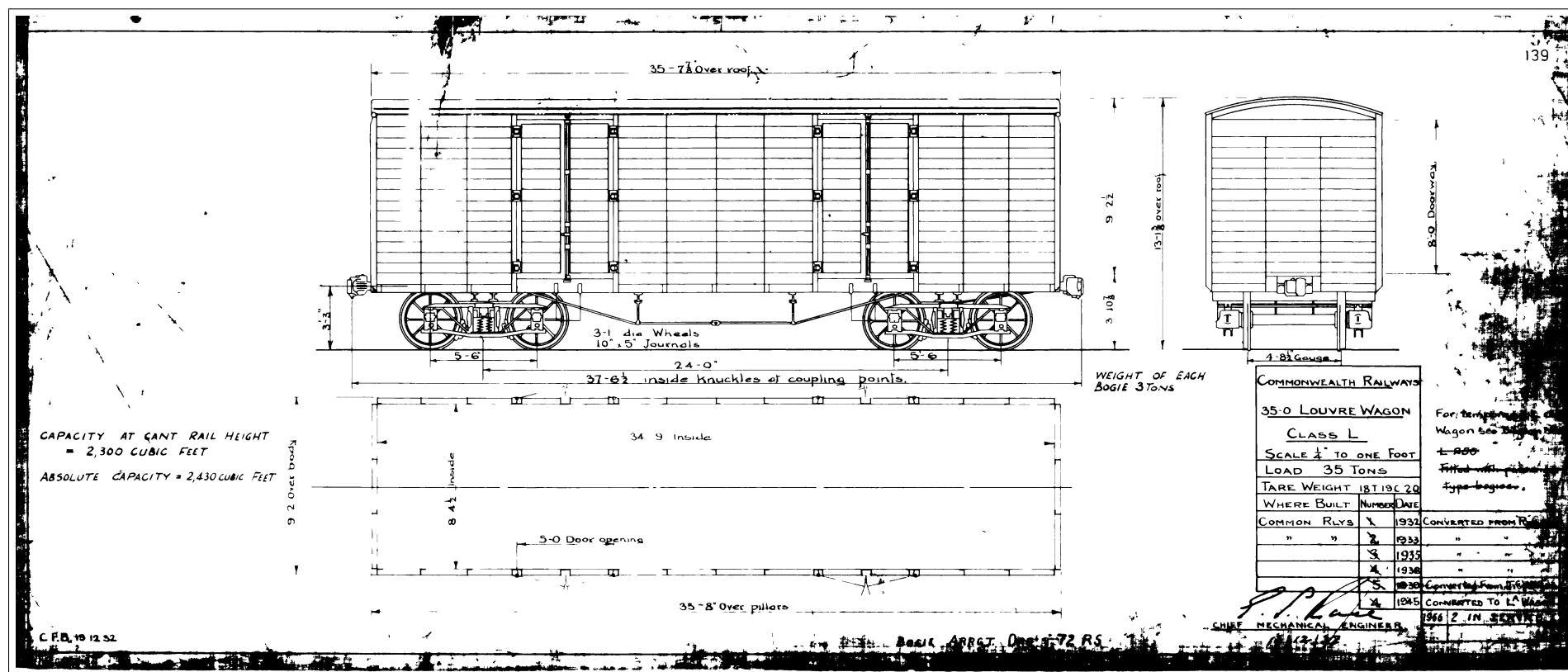
Diesel Engine General Motors EMD Type 161-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

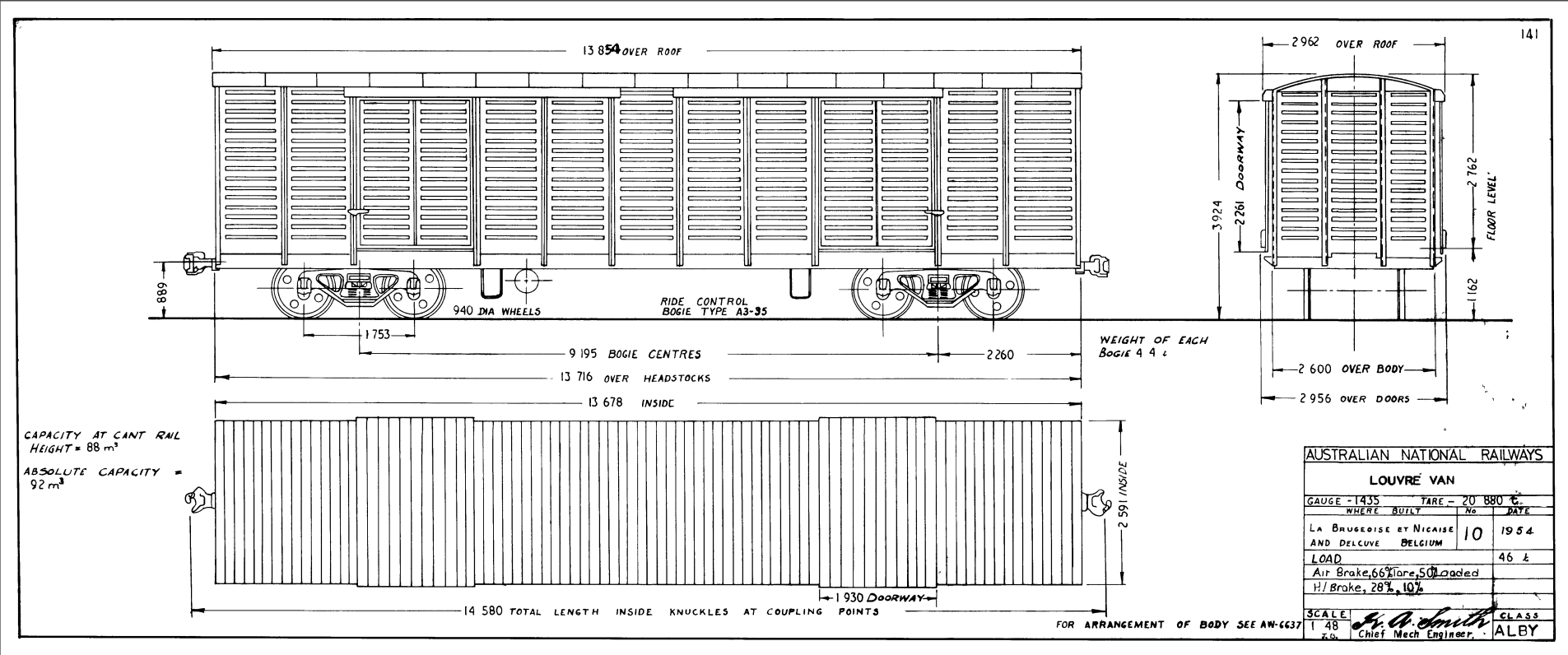
Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T Fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 113 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



16.1 L Louvre Van

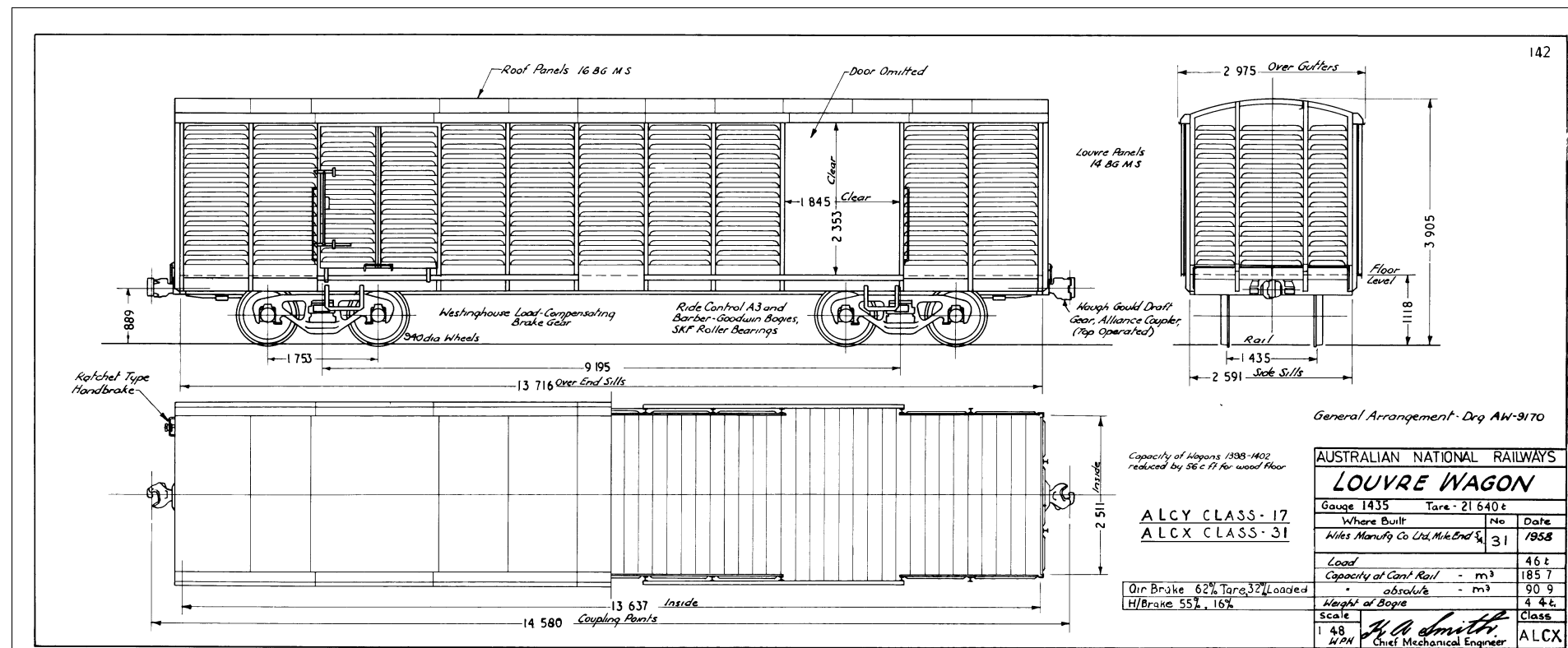


16.2 ALBY Louvre Van



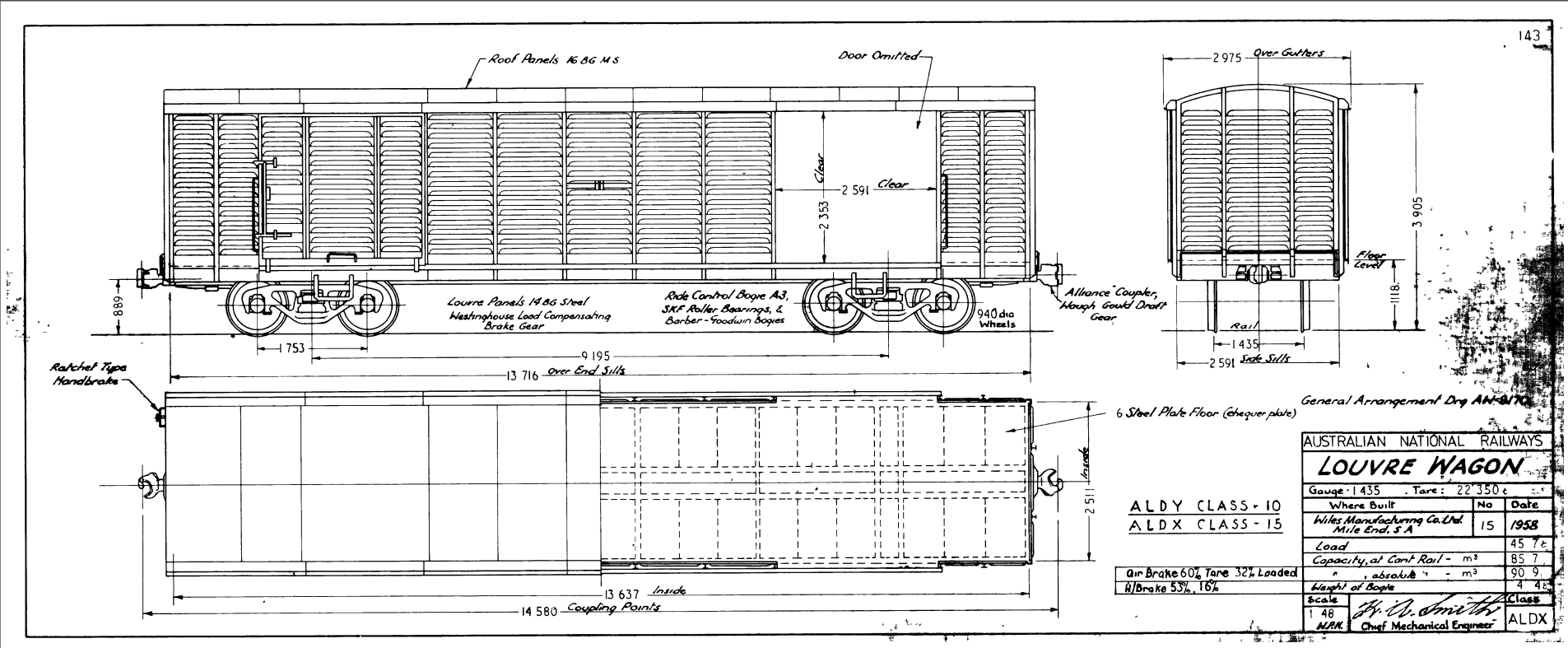
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16.3 ALCX Louvre Van



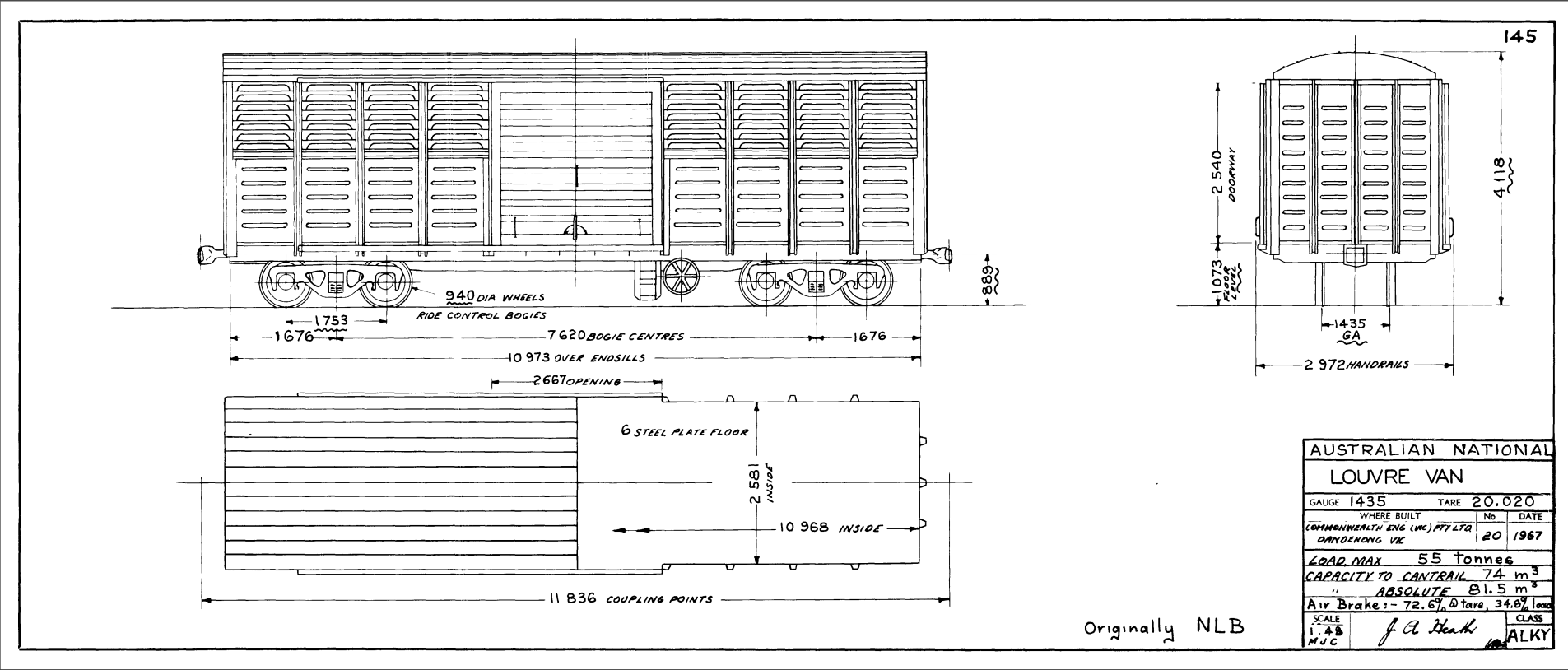
PlanId: NS142

16.4 ALDX Louvre Van



PlanId: NS143

16.6 ALKY Louvre Van



PlanId: NS145



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CHAPTER

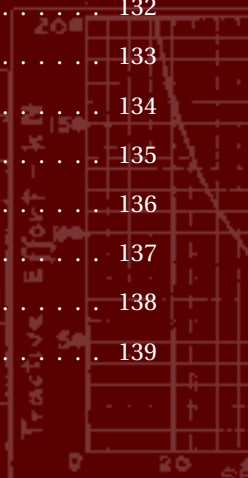
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FLAT WAGONS

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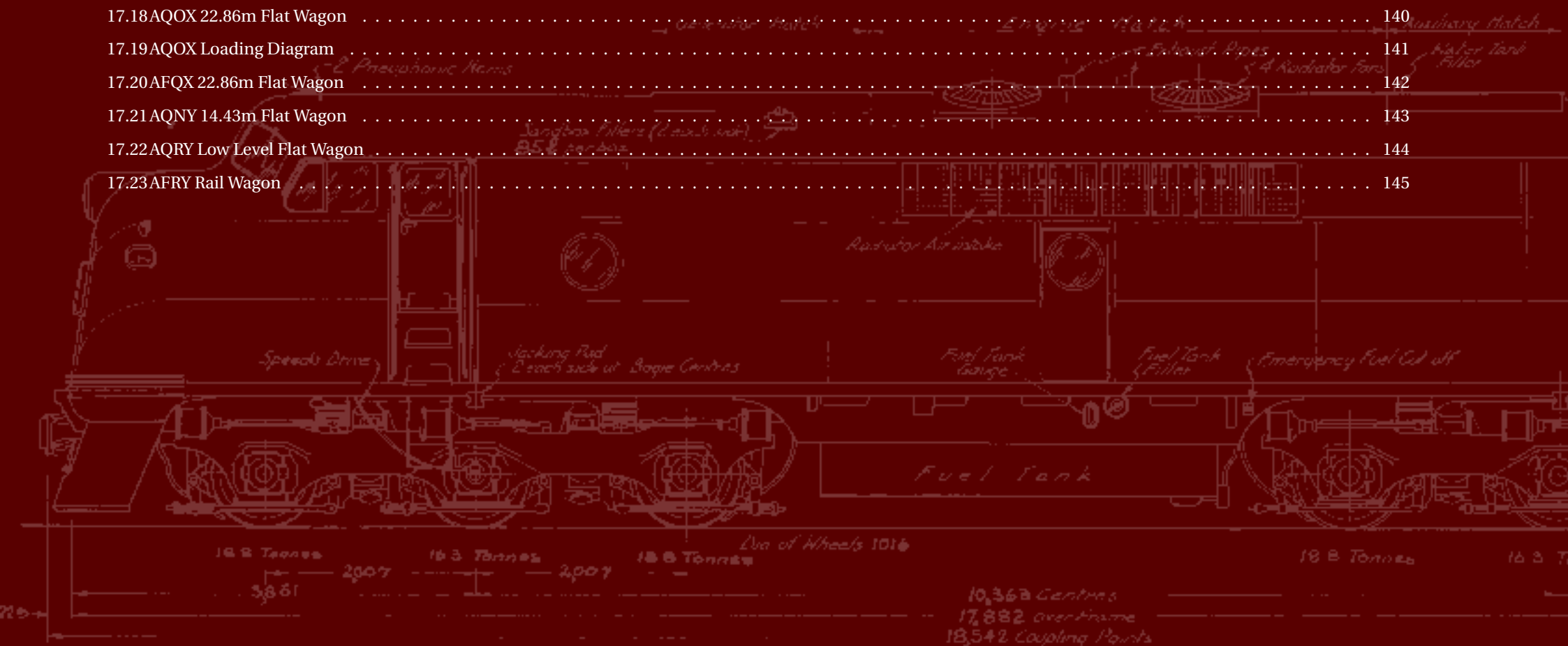
GENERAL	
Diesel Engine	General Motors FMD Type 16-567B, Two Strokes
Engine Speed	275-300 RPM
Generator	Model D75 Generator (20 kW for Traction) (D.C.)
Alternator	Model D75 Generator (20 kW for Traction) (A.C.)
Max Tractive Effort	184 kN
Four (4) Traction Motors	- 8 Driving Wheels
Gear Ratio	58-13
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION	
Fuel Oil Capacity	6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity	730 litres
Cooling Water Capacity	842 litres
Fans	4 Radiator, 4 Engine Room, 4 Traction Motor
Height of Locomotive Roadworthy	10.8 tonnes (inc 9.6T. Fuel)
One Boogie Complete	23,403 kg
Engine & Generator	21,364 kg
121 Driving Wheels	75 Tonnes
Draft Gear	Knigh Friction Type PA, Static Cap 181,818 kg



17. FLAT WAGONS

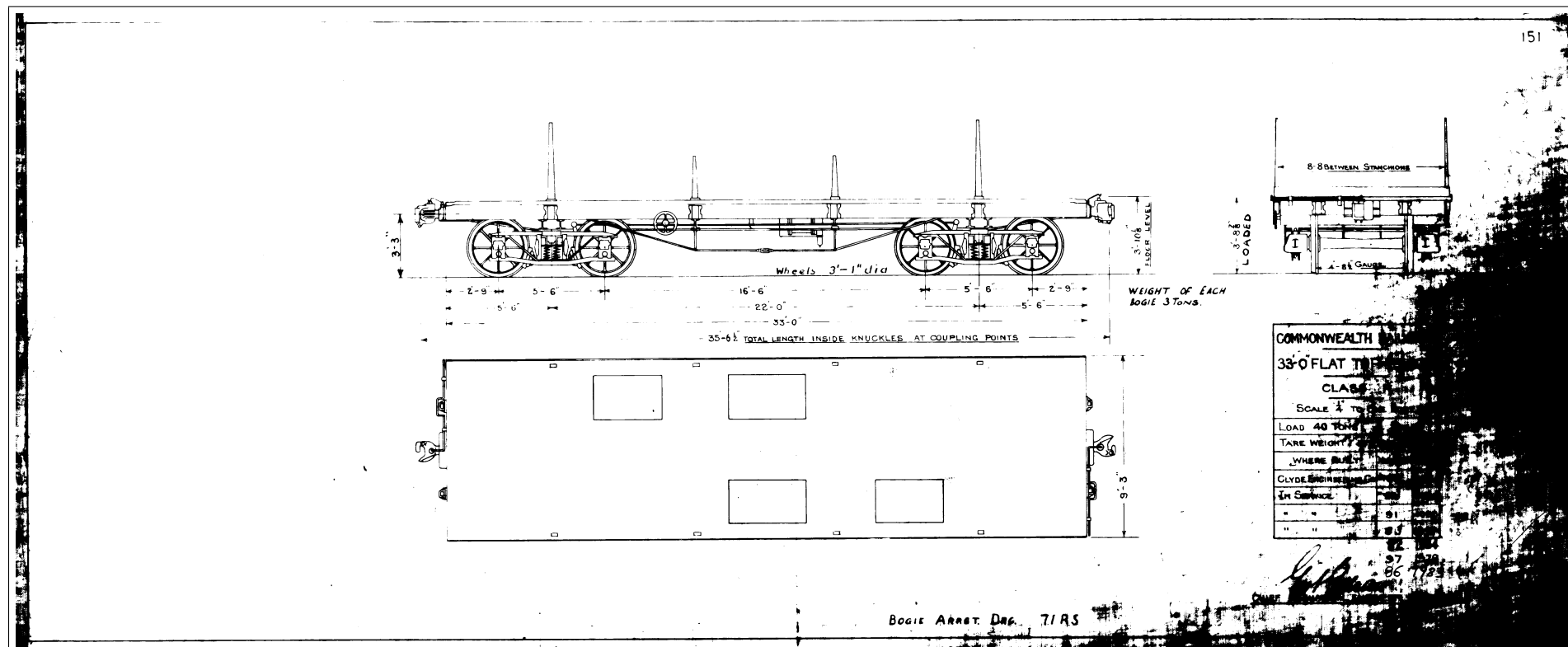
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GENERAL		SPECIFICATION	
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke	Fuel Oil Capacity	6,825 litres (approx wt = 5.7 Tonnes)
Engine Speed	275-800 RPM	Lubricating Oil Capacity	730 litres
Generator	Model D12 converts 1120 kW for Traction (D.C.)	Cooling Water Capacity	842 litres
Alternator	Model D14 for Auxiliaries (A.C.)	Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Max Tractive Effort	Starting, 25% adhesion = 184 kN	Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T fuel)
"	Continuous = 132 kN	" One Bogie Complete	23,403 kg
Four (4) Traction Motors = 8 Driving Wheels		" Engine & Generator	21,364 kg
Gear Ratio - 58-19		" on Driving Wheels	75 Tonnes
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h		Draft Gear	Knock Friction Type PA, Static Cap 181,818 kg

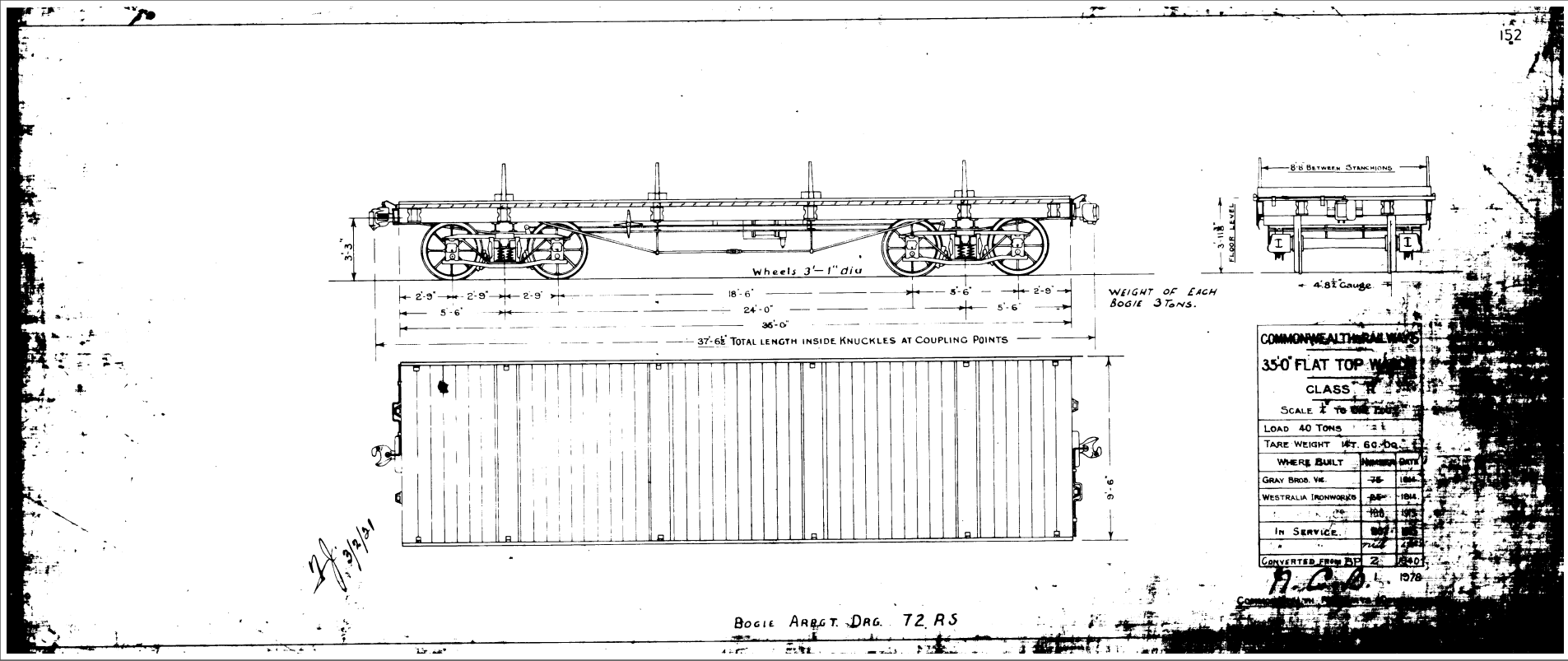


17.1 R Flat Top Wagon 33ft



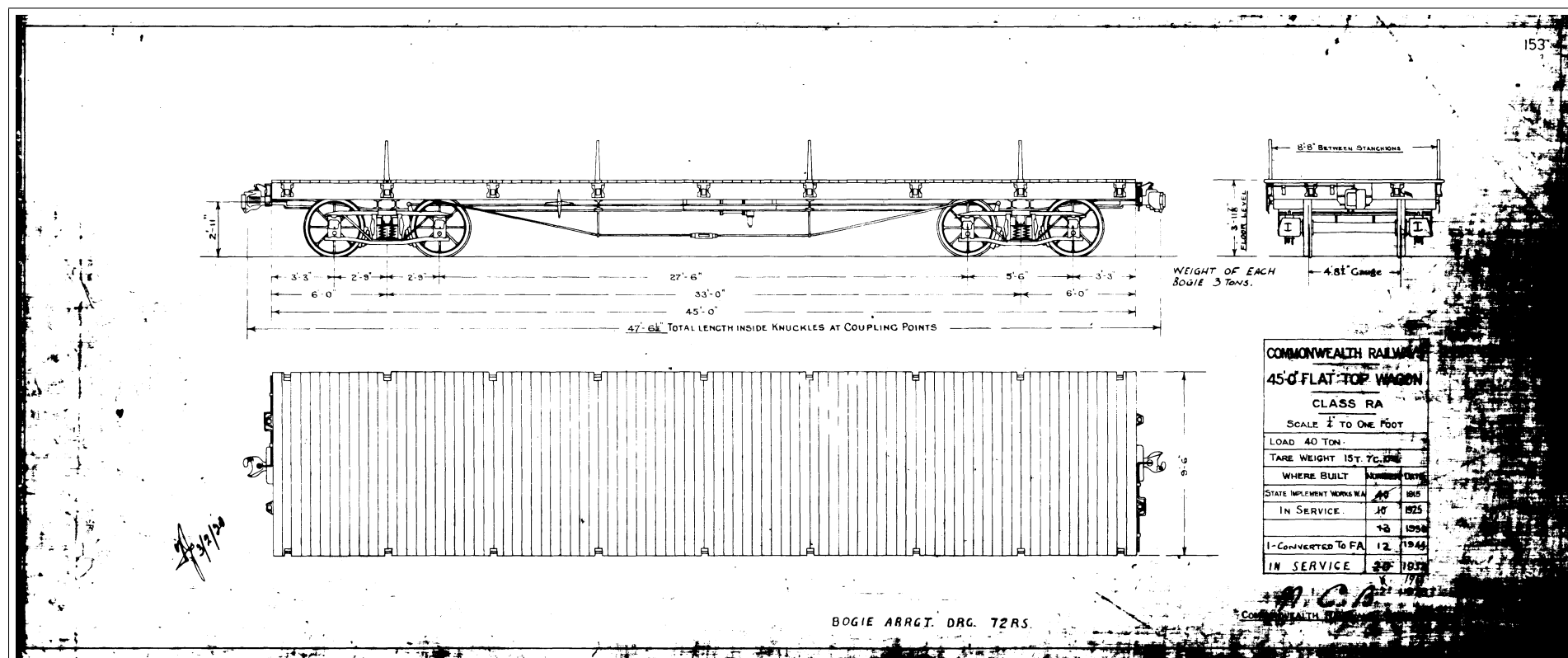
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17.2 R 35ft Flat Top Wagon



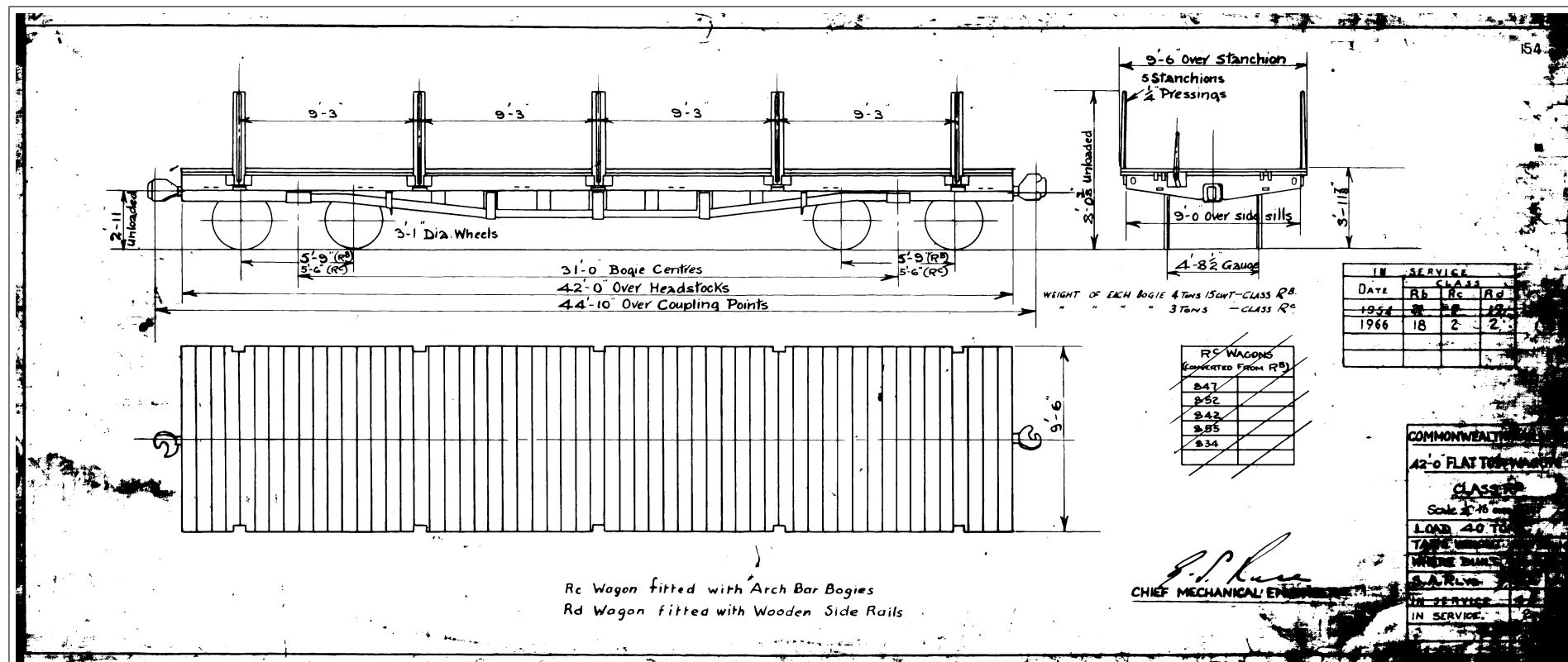
PlanId: NS152

17.3 RA 45ft Flat Top Wagon



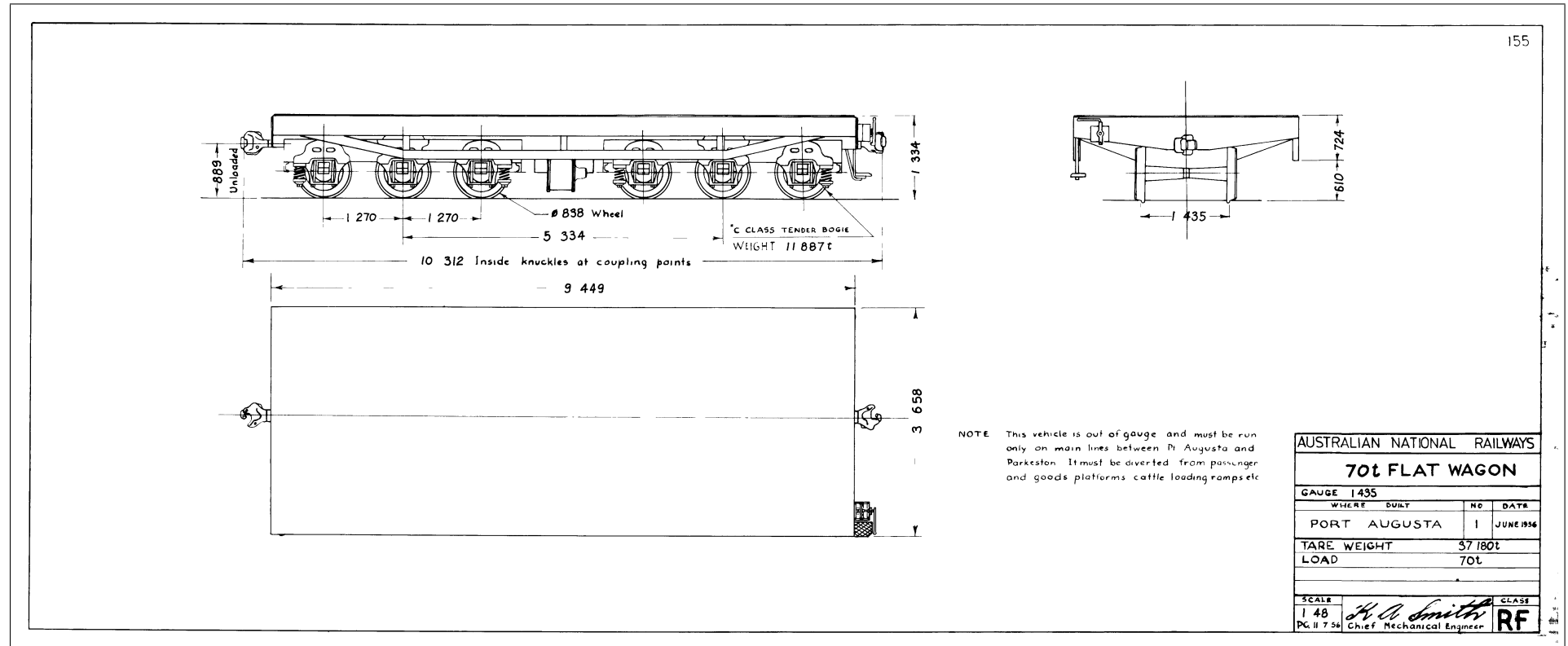
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17.4 RC RD Flat Top Wagon



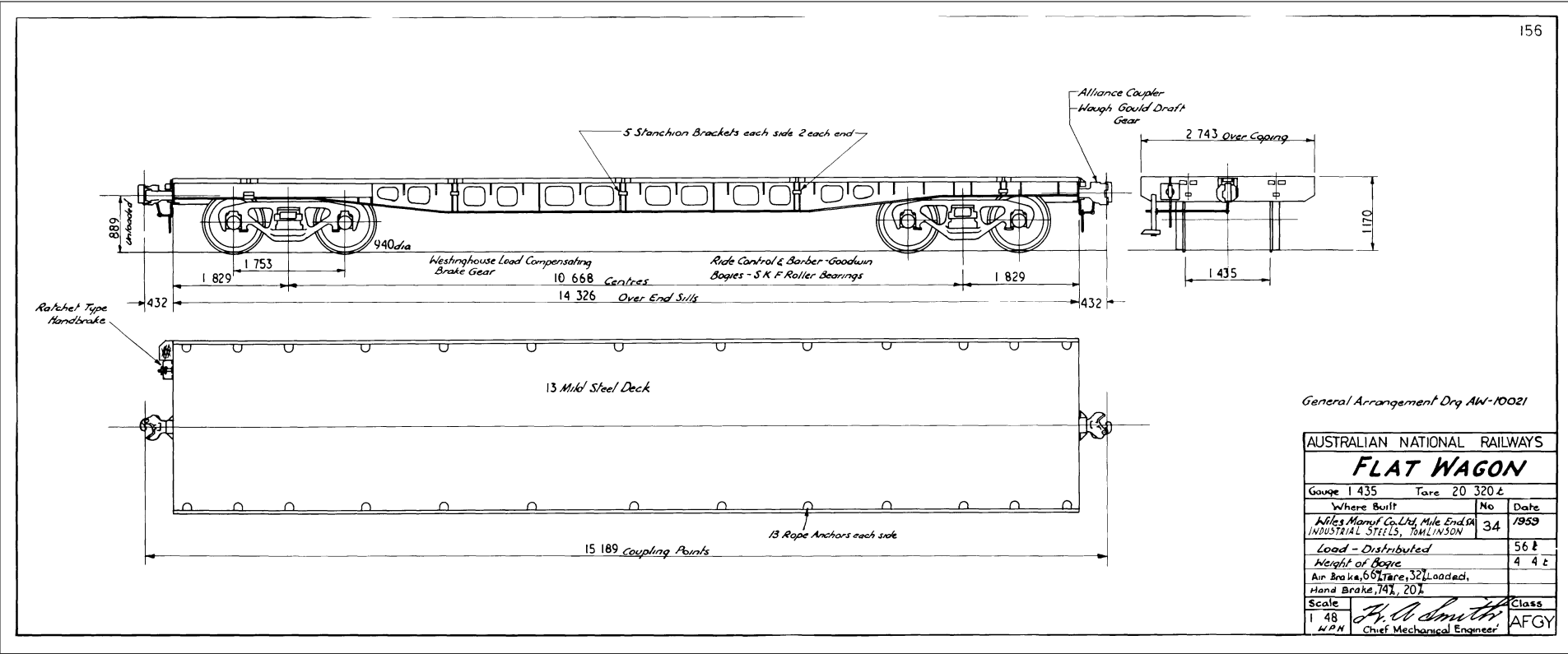
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17.5 RF 70t Flat Wagon



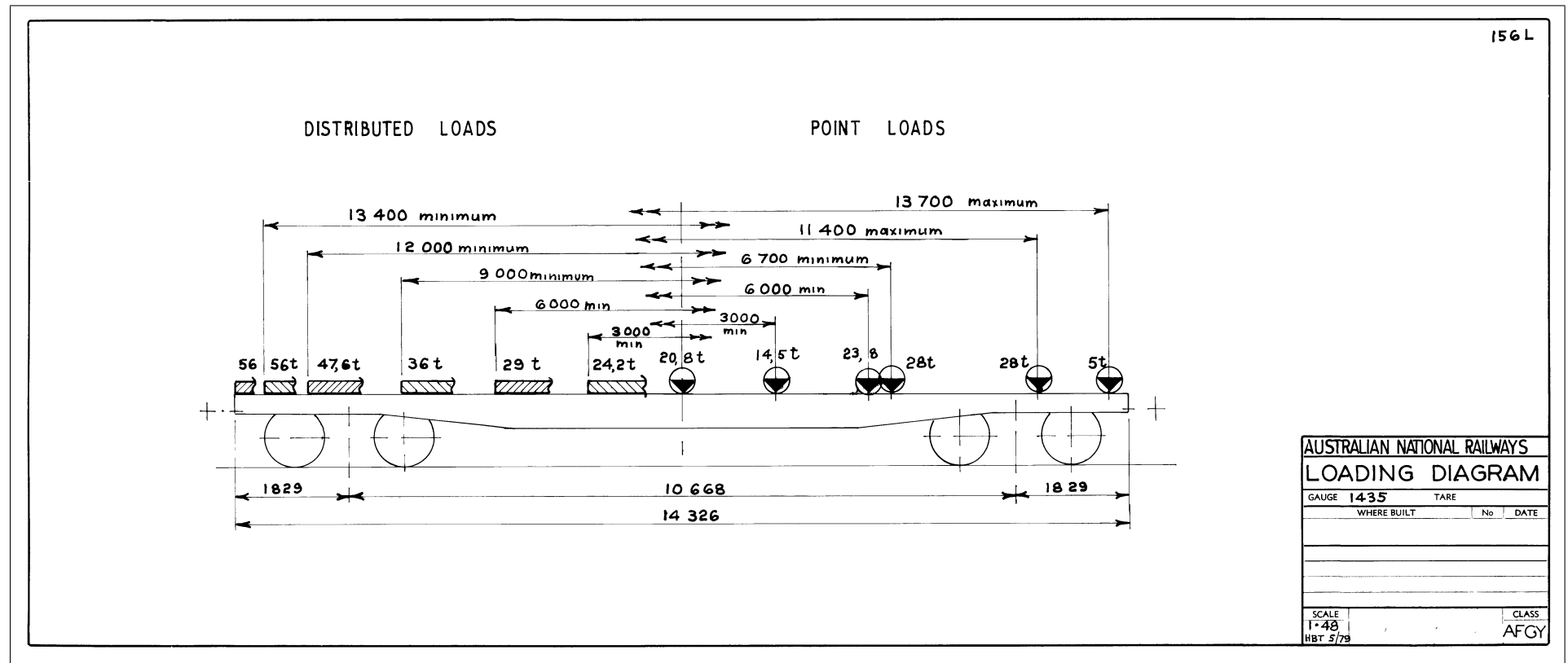
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17.6 AFGY Flat Wagon



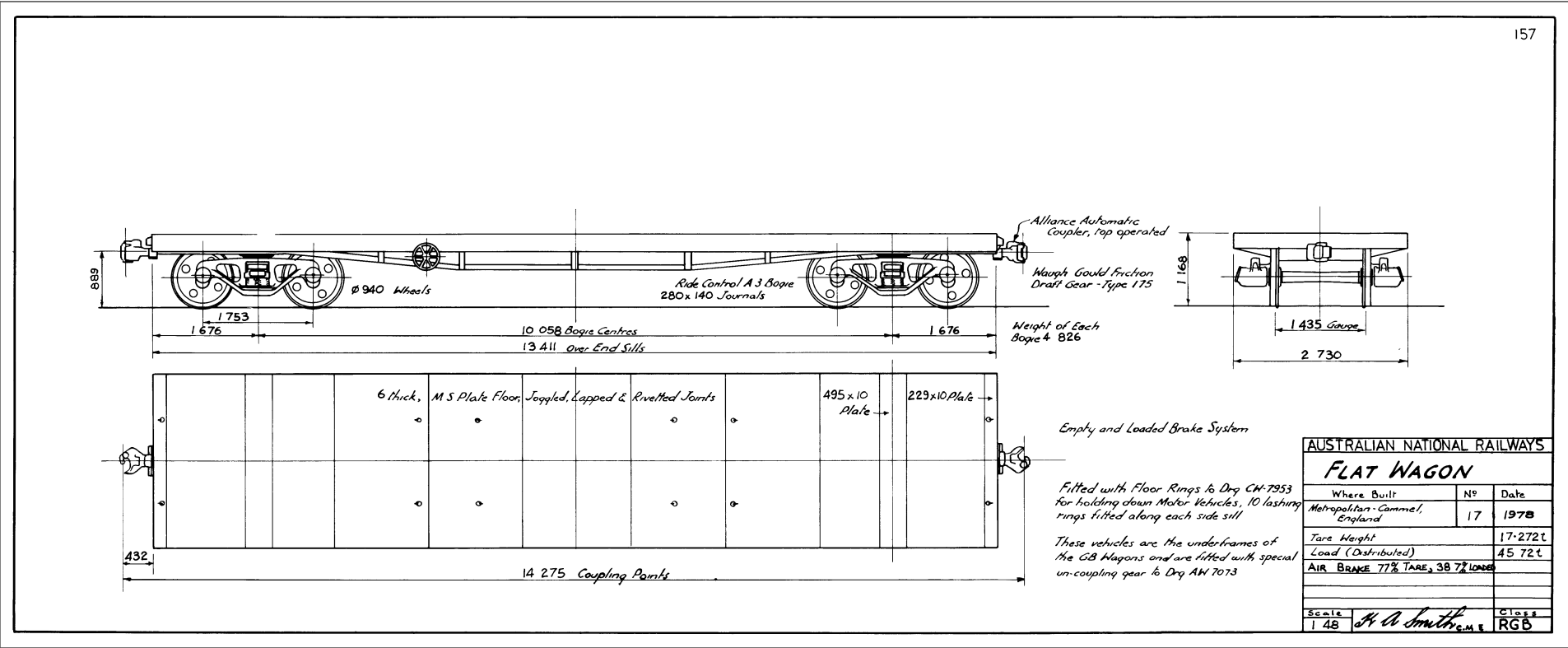
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17.7 AFGY Loading Diagram



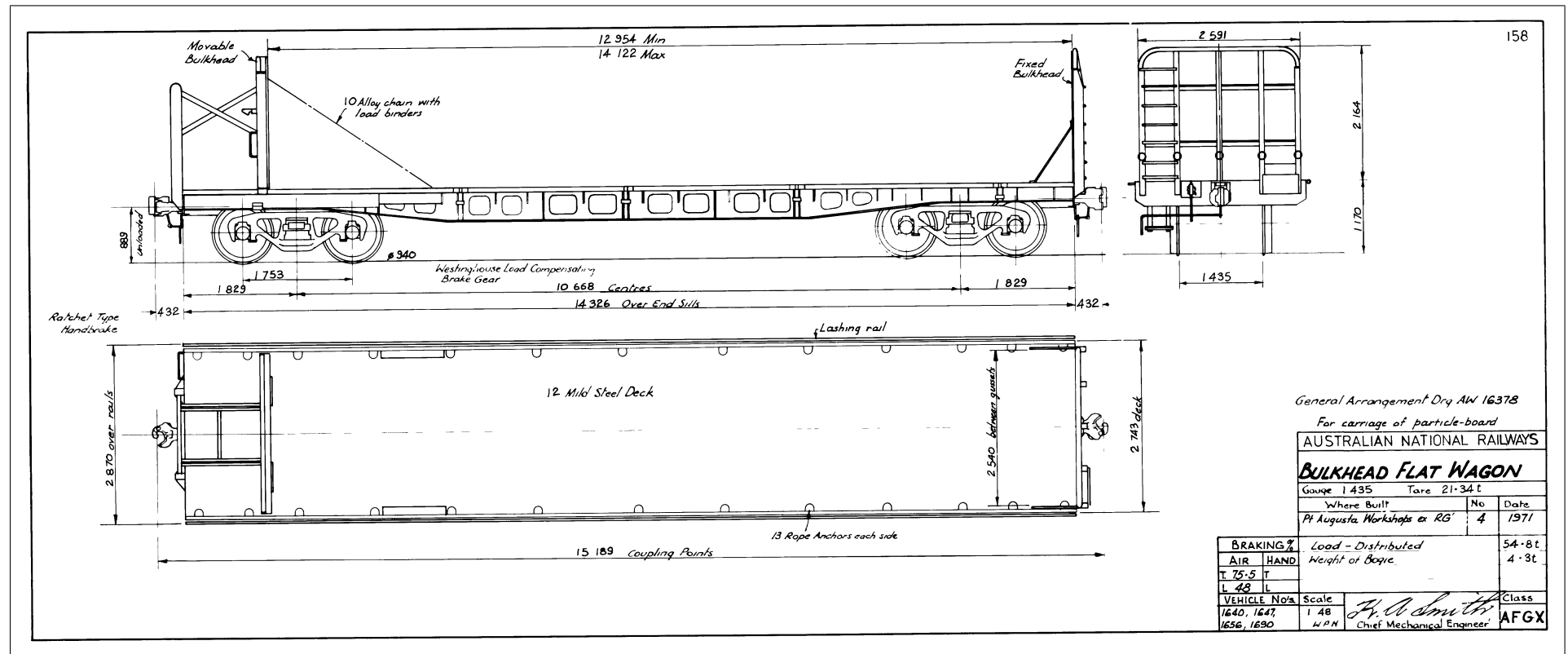
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17.8 RGB Flat Wagon



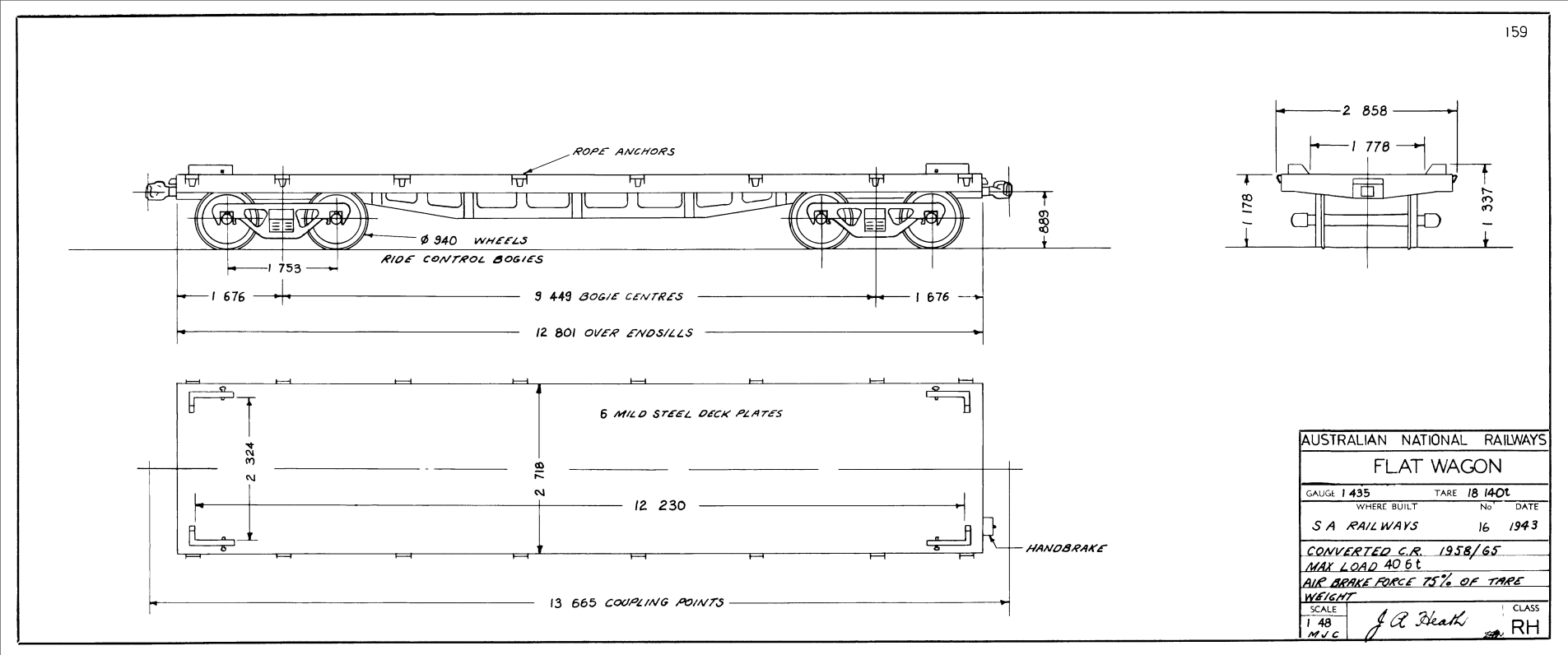
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17.9 AFGX Bulkhead Flat Wagon



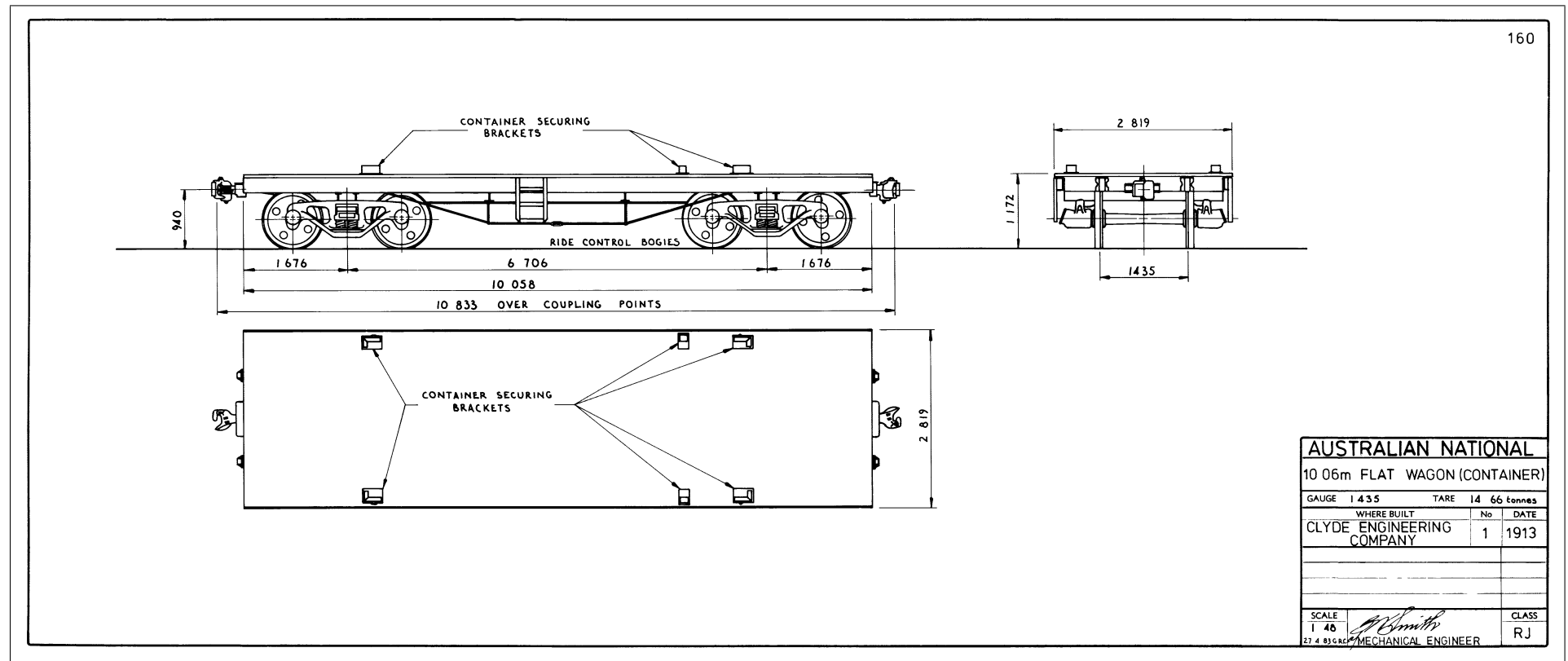
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17.10 RH Flat Wagon



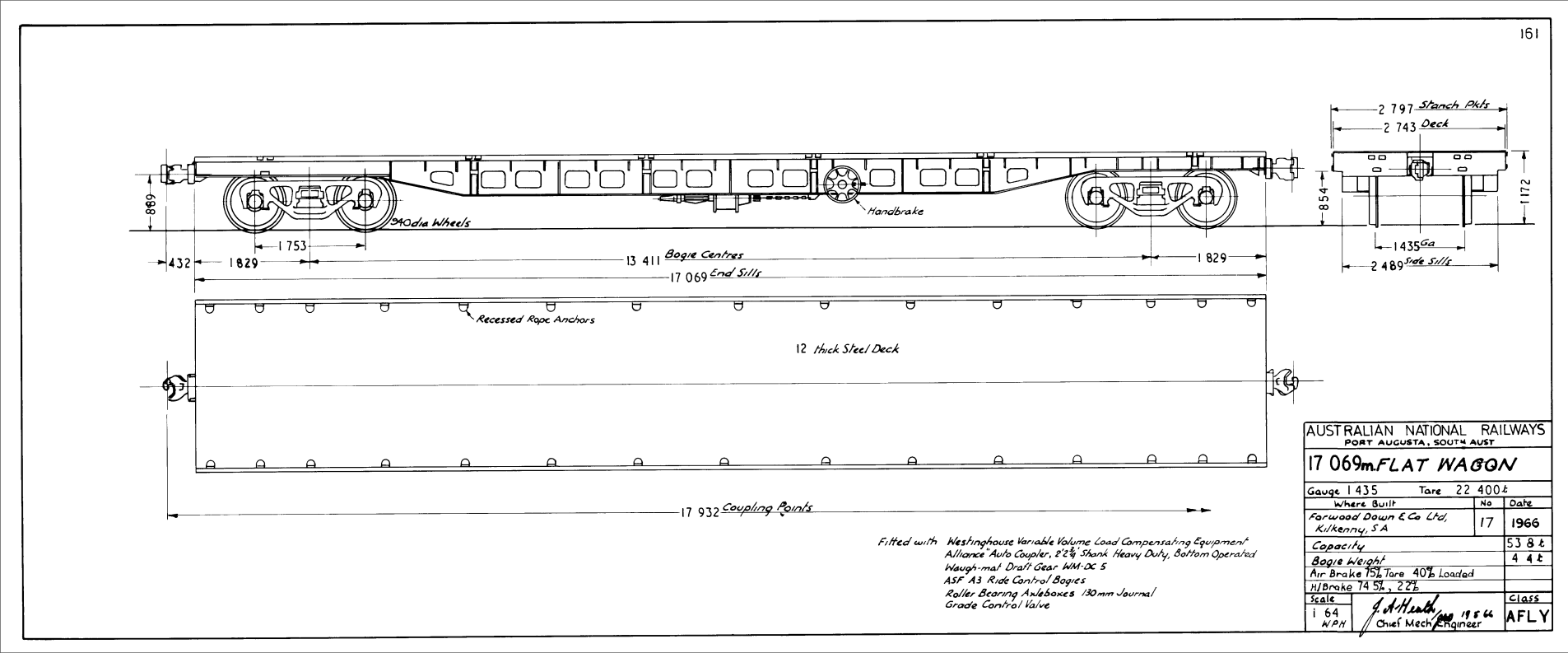
PlanId: NS159

17.11 RJ Flat Wagon Container



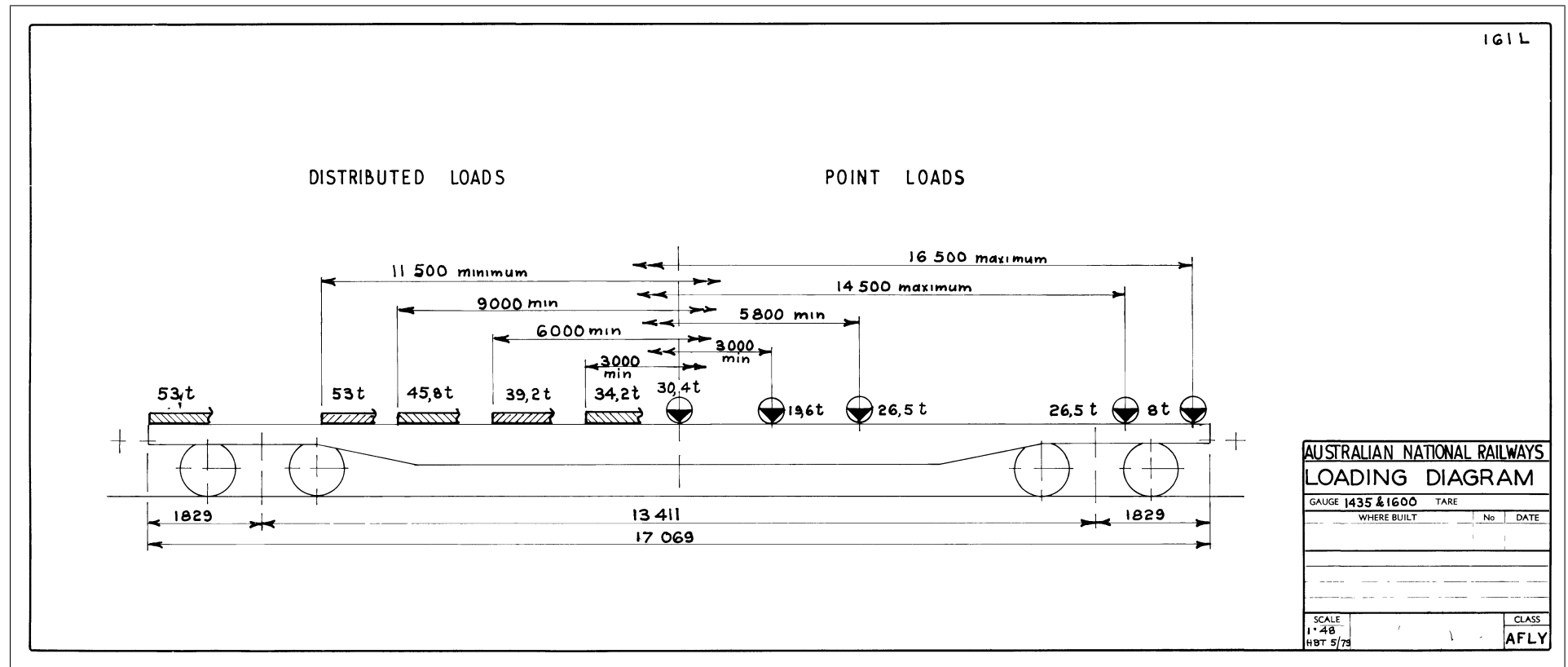
PlanId: NS160

17.12 AFLY 17.069m Flat Wagon



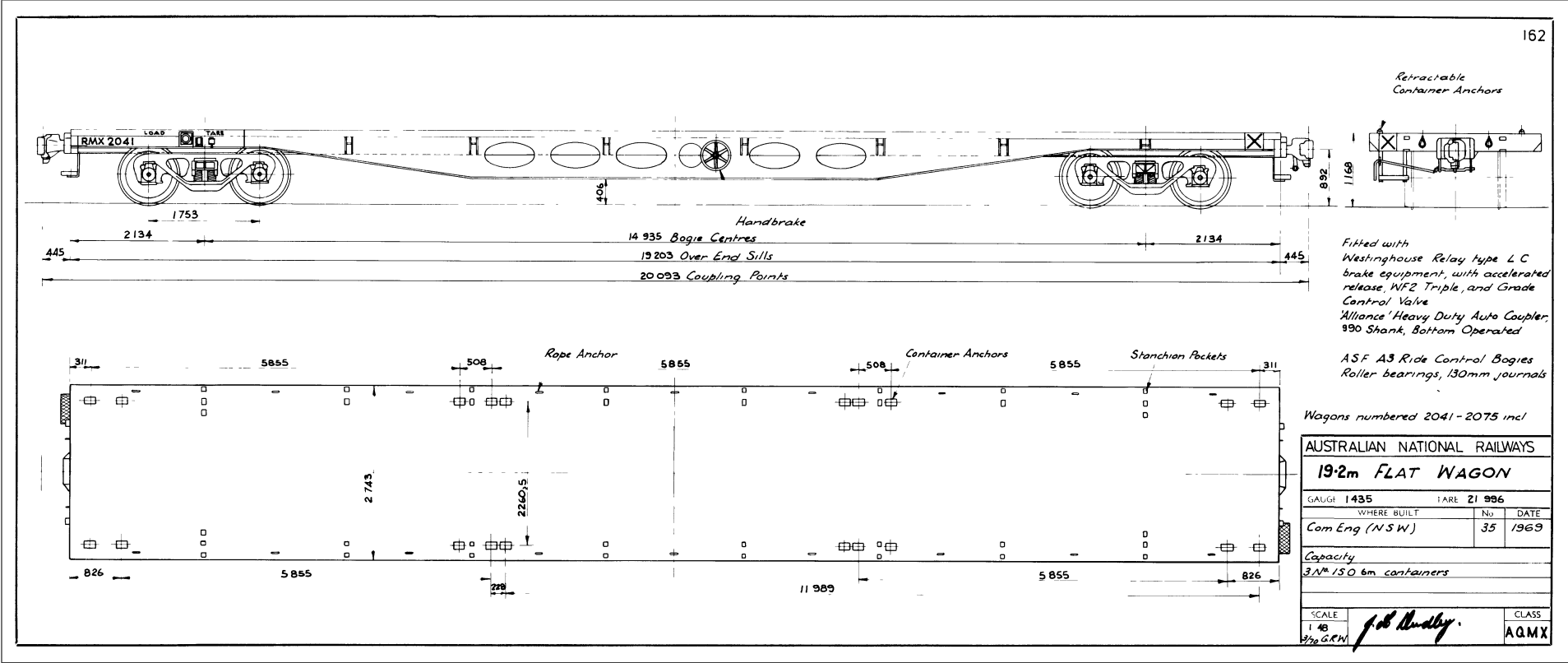
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17.13 AFLY Loading Diagram



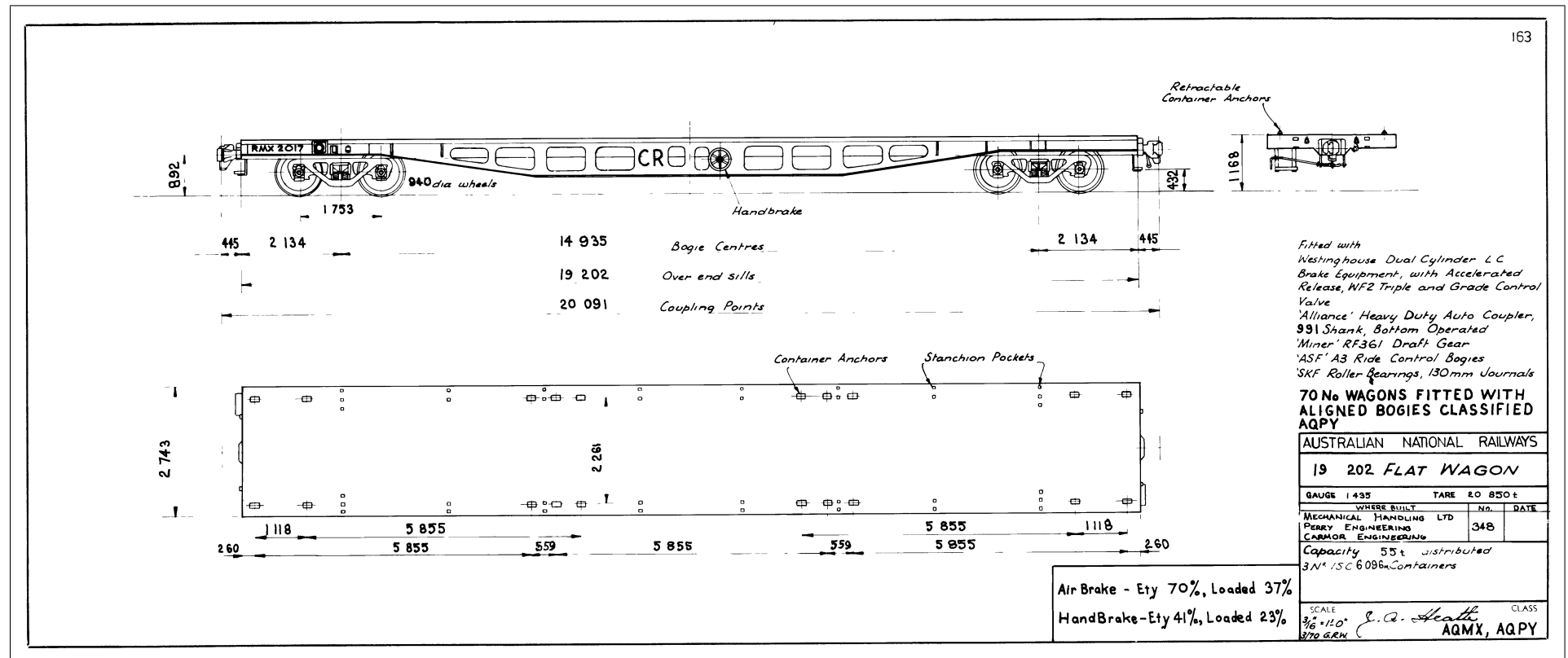
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17.14 AQMX 19.2m Flat Wagon



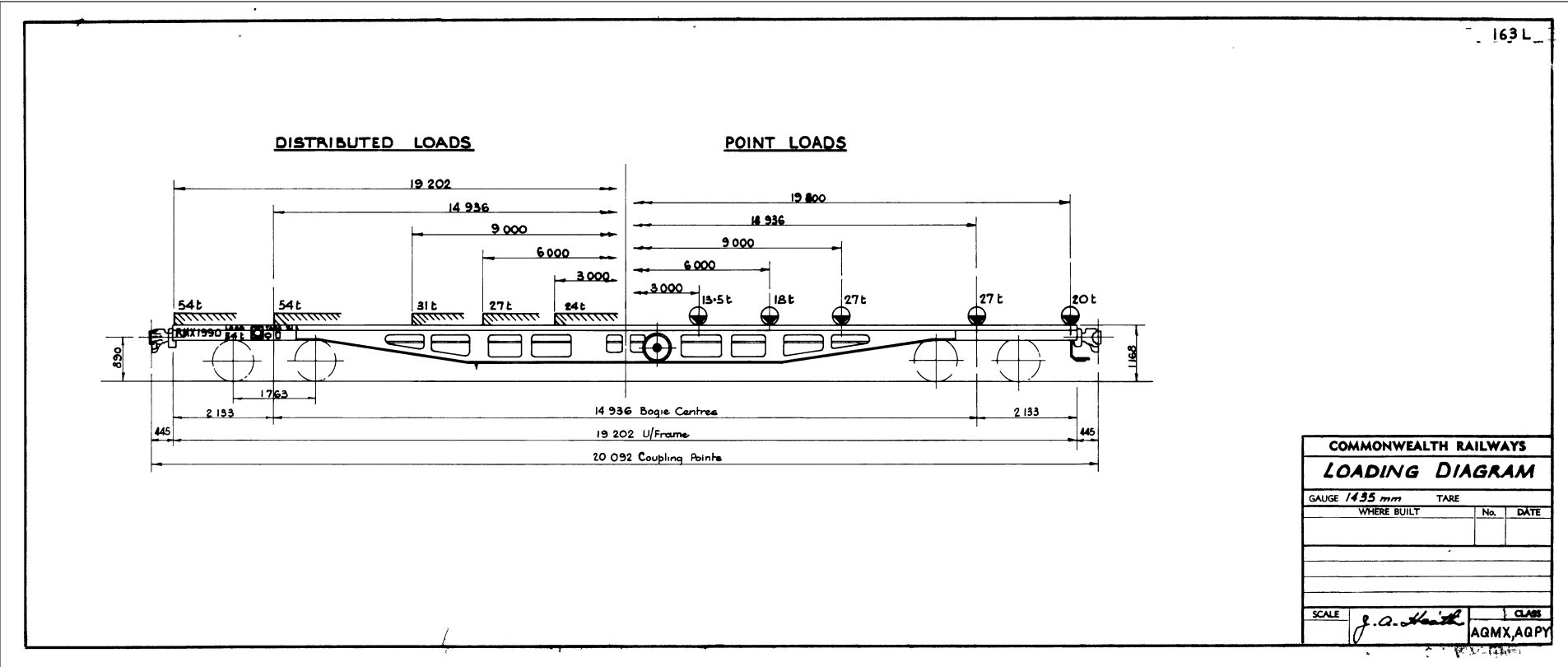
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17.15 AQMX AQPY 19.202m Flat Wagon



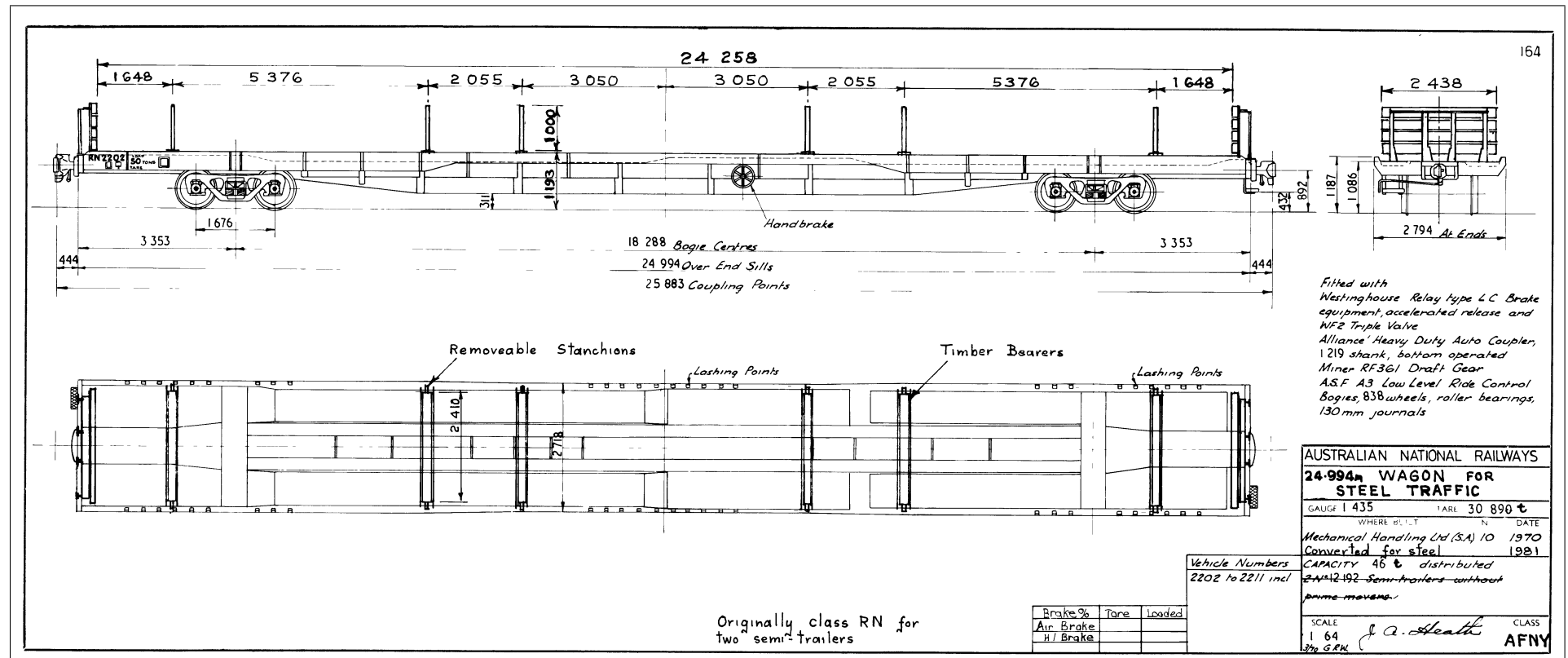
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17.16 AQMX AQPY Loading Diagram



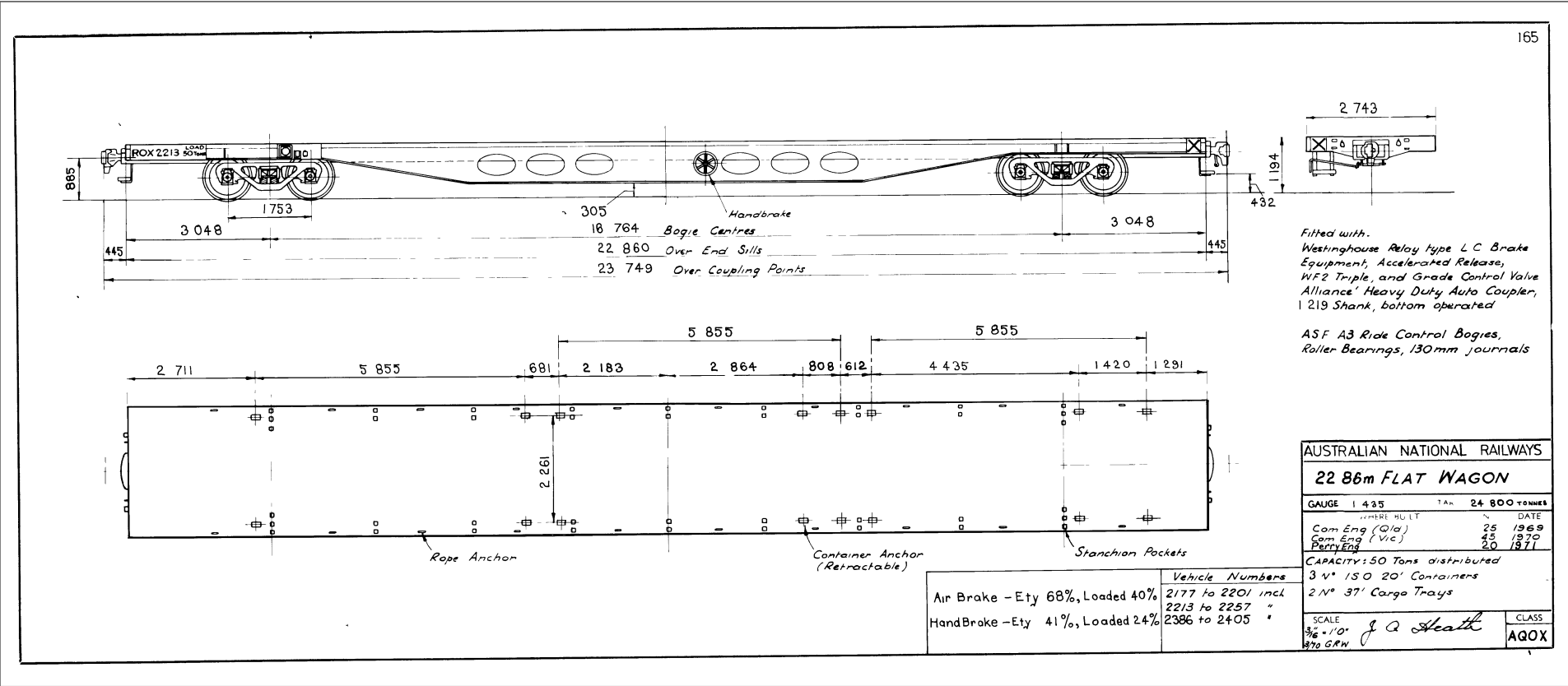
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17.17 AFNY Steel Traffic Wagon



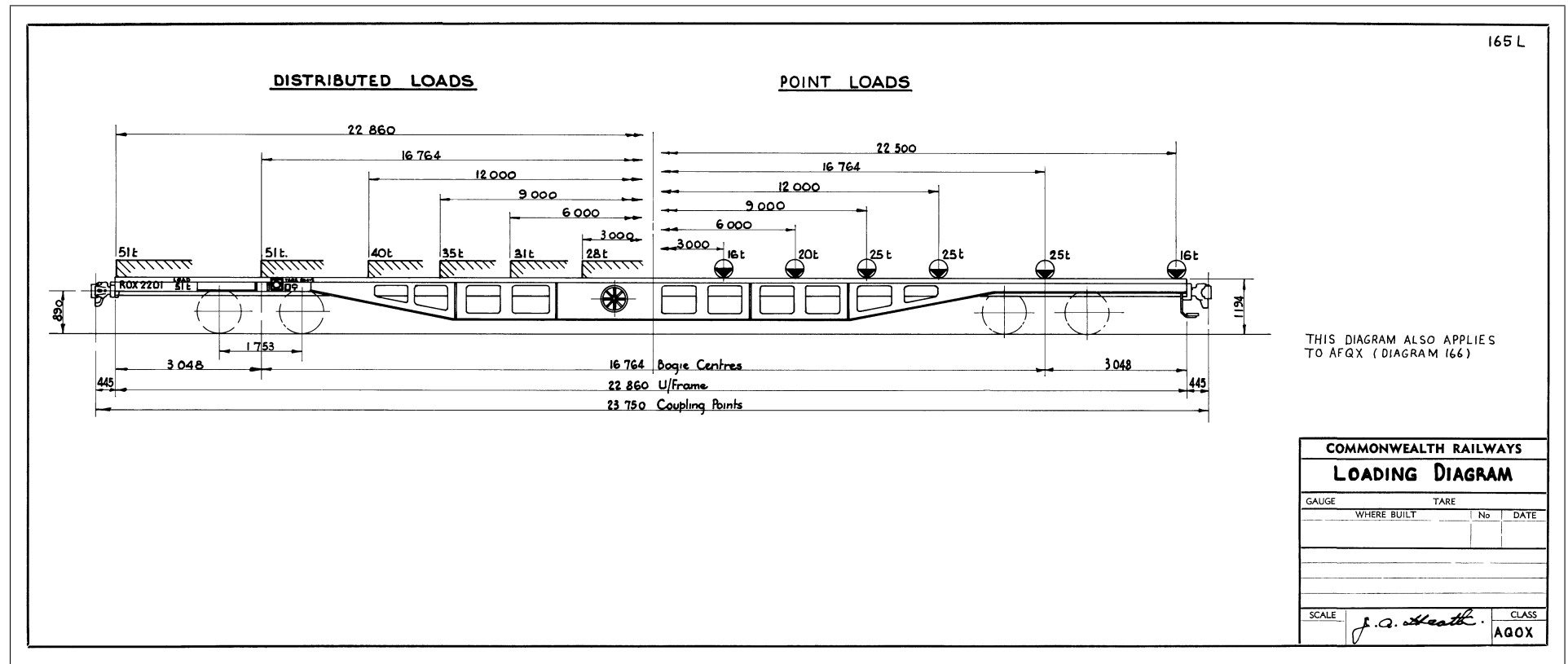
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17.18 AQOX 22.86m Flat Wagon



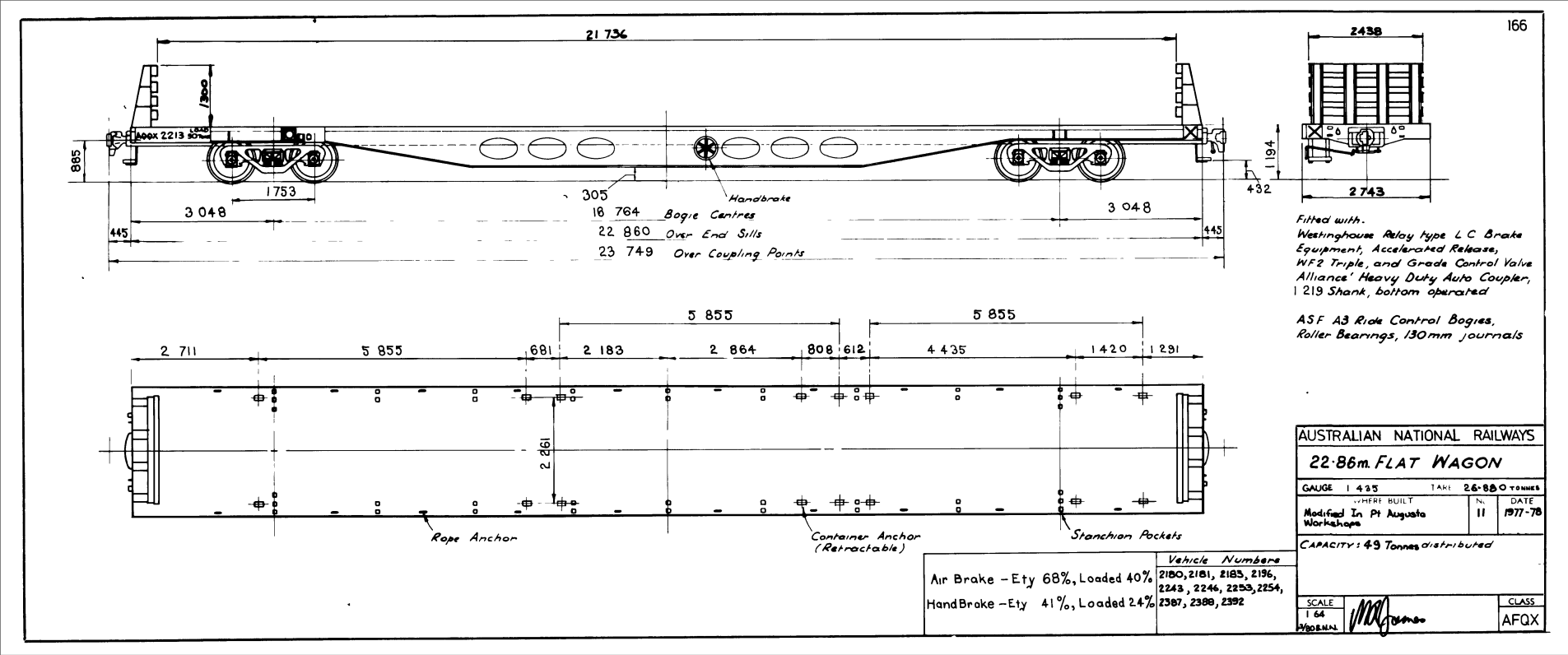
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17.19 AQOX Loading Diagram



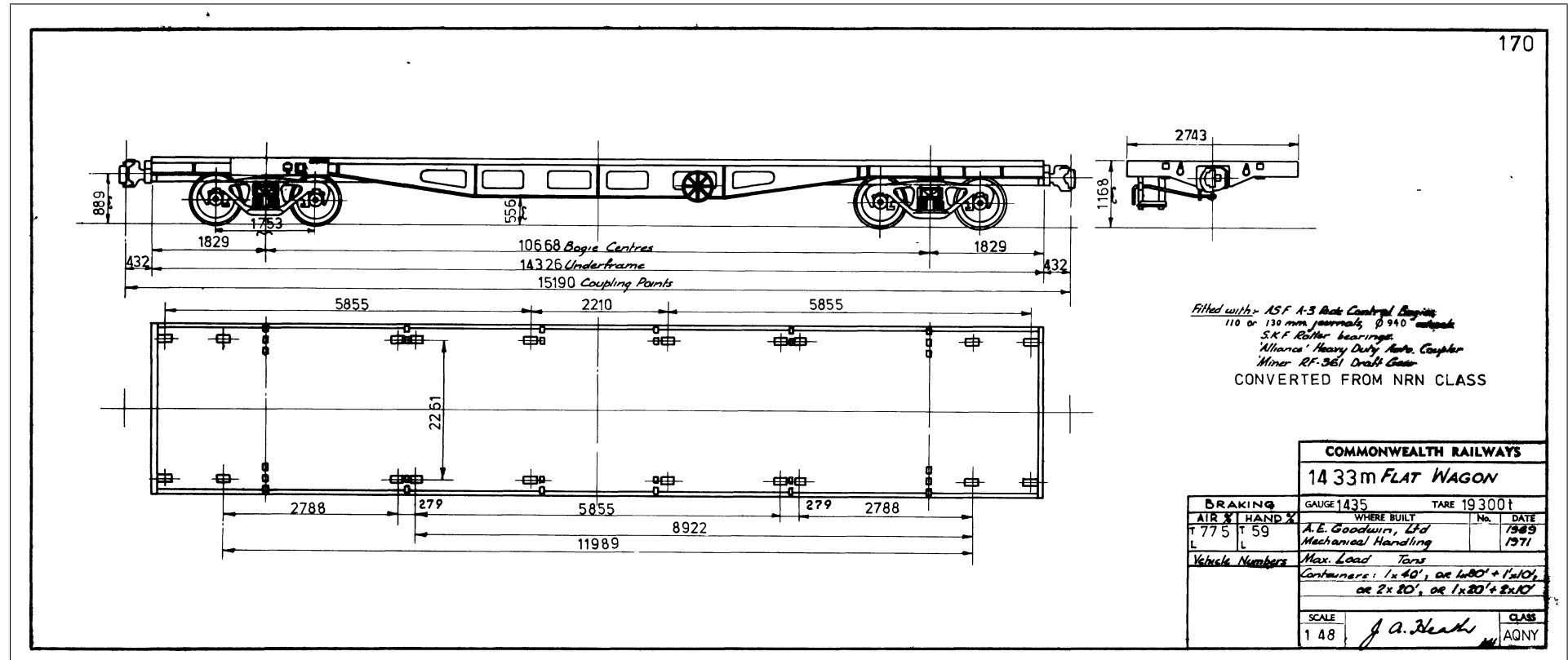
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17.20 AFQX 22.86m Flat Wagon



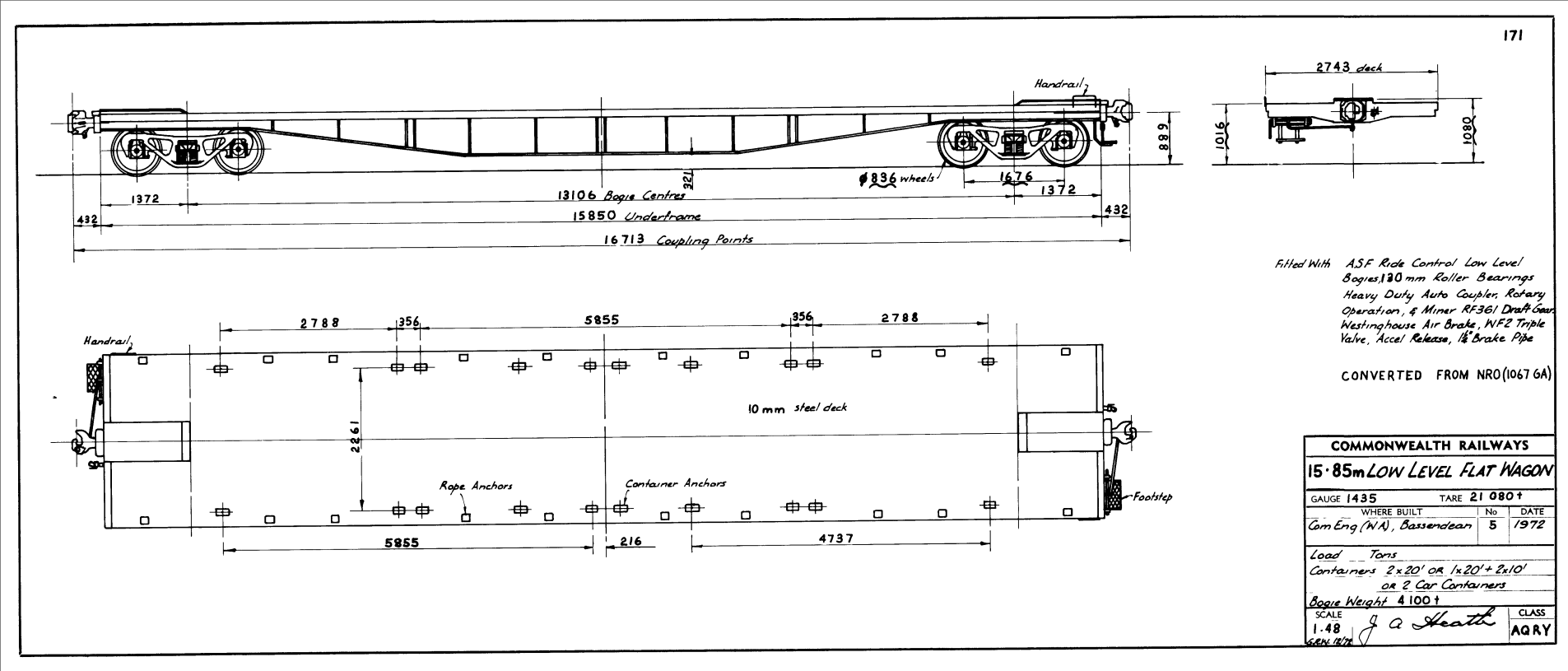
PlanId: NS166

17.21 AQNY 14.43m Flat Wagon



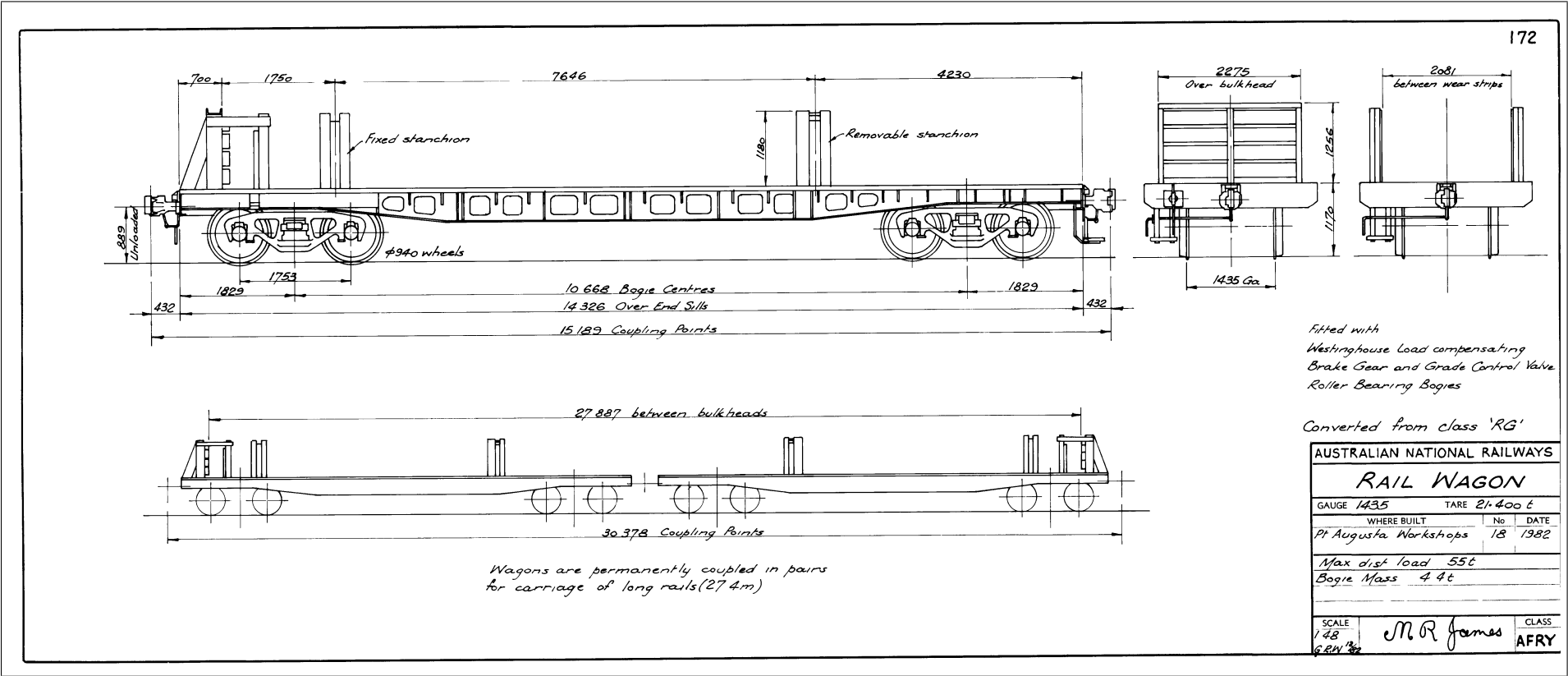
PlanId: NS170

17.22 AQRY Low Level Flat Wagon



PlanId: NS171

17.23 AFRY Rail Wagon



PlanId: NS172



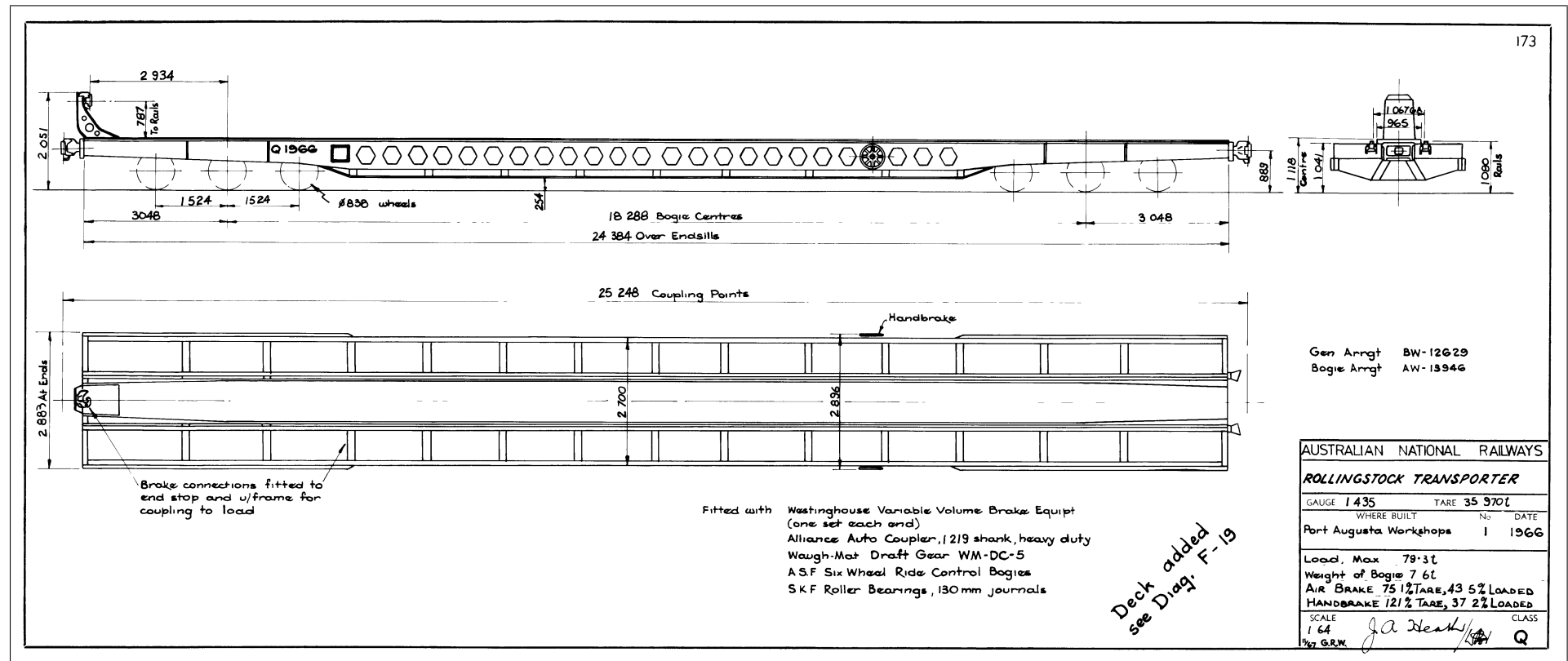
CHAPTER

18

HEAVY LOAD FLAT WAGONS

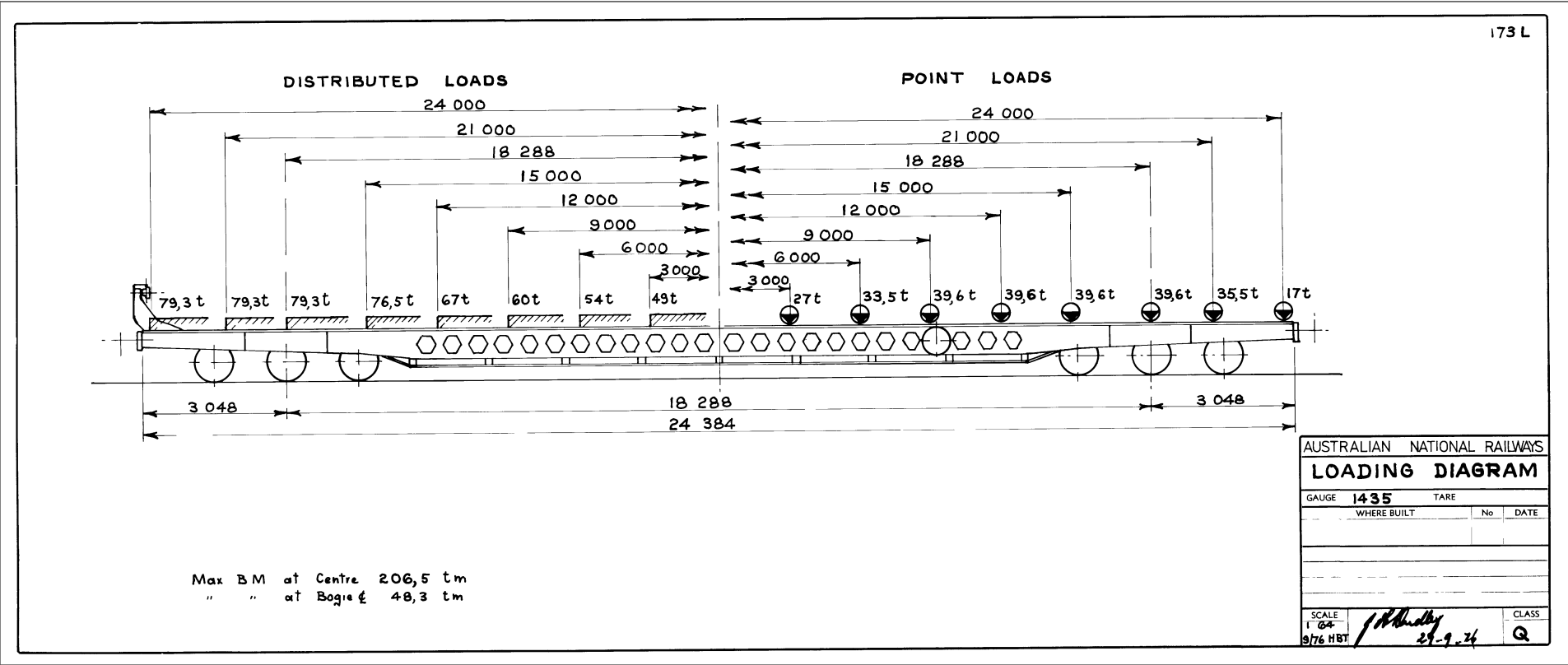
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18.1 Q Rolling Stock Transporter

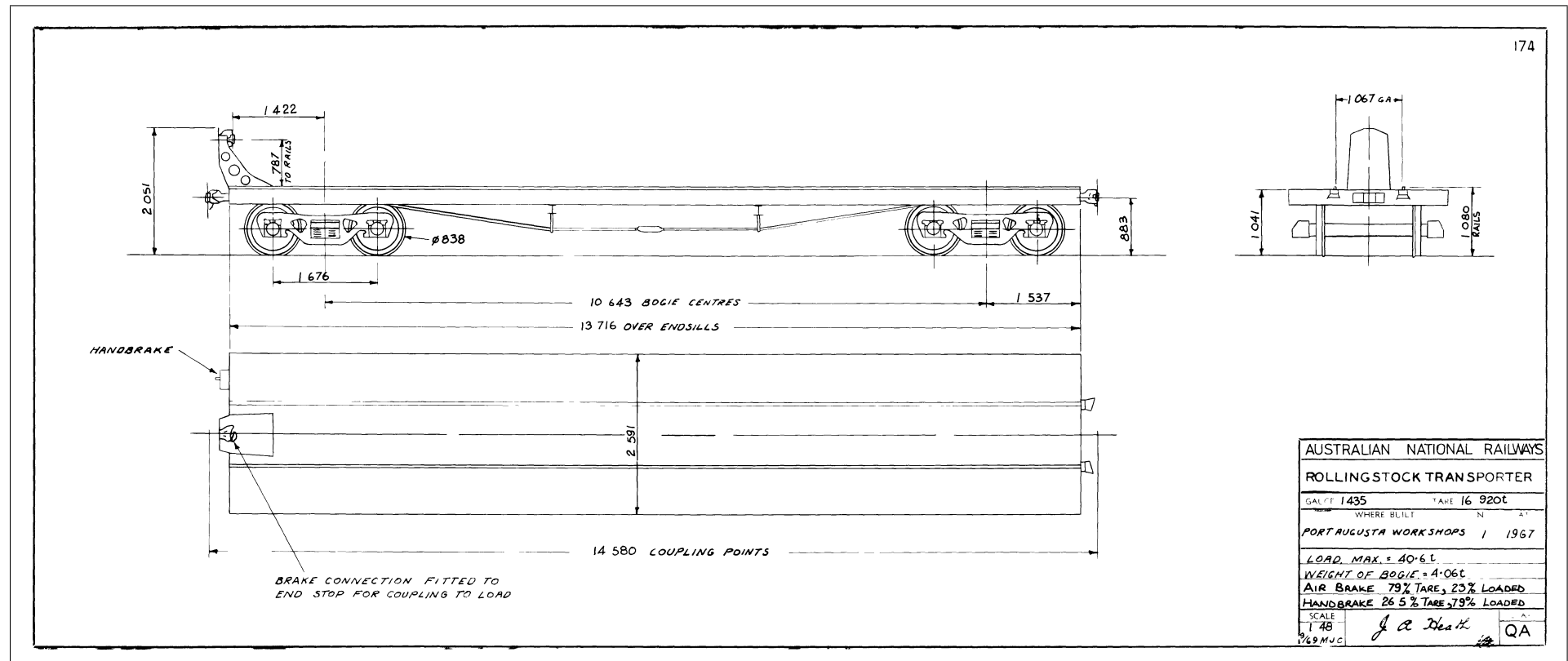


PlanId: NS173

18.2 Q Loading Diagram

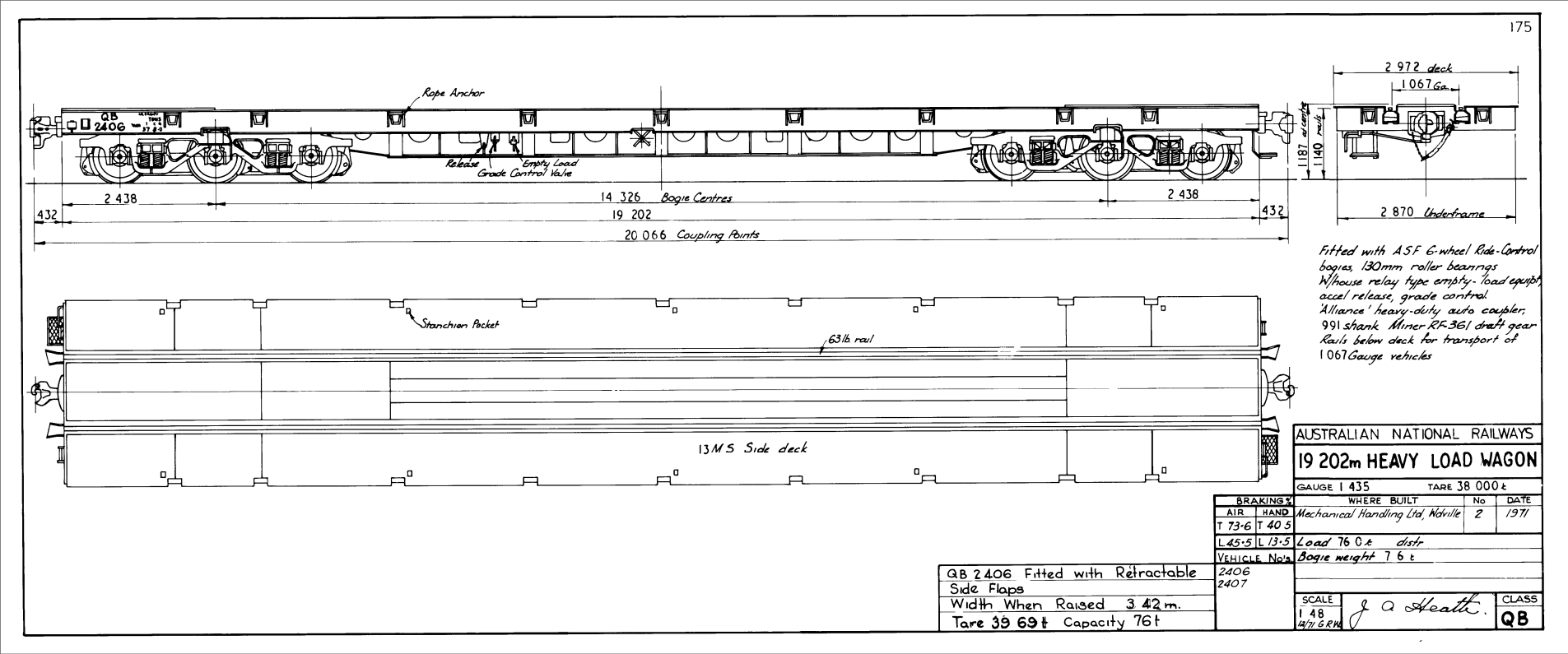


18.3 QA Rolling Stock Transporter



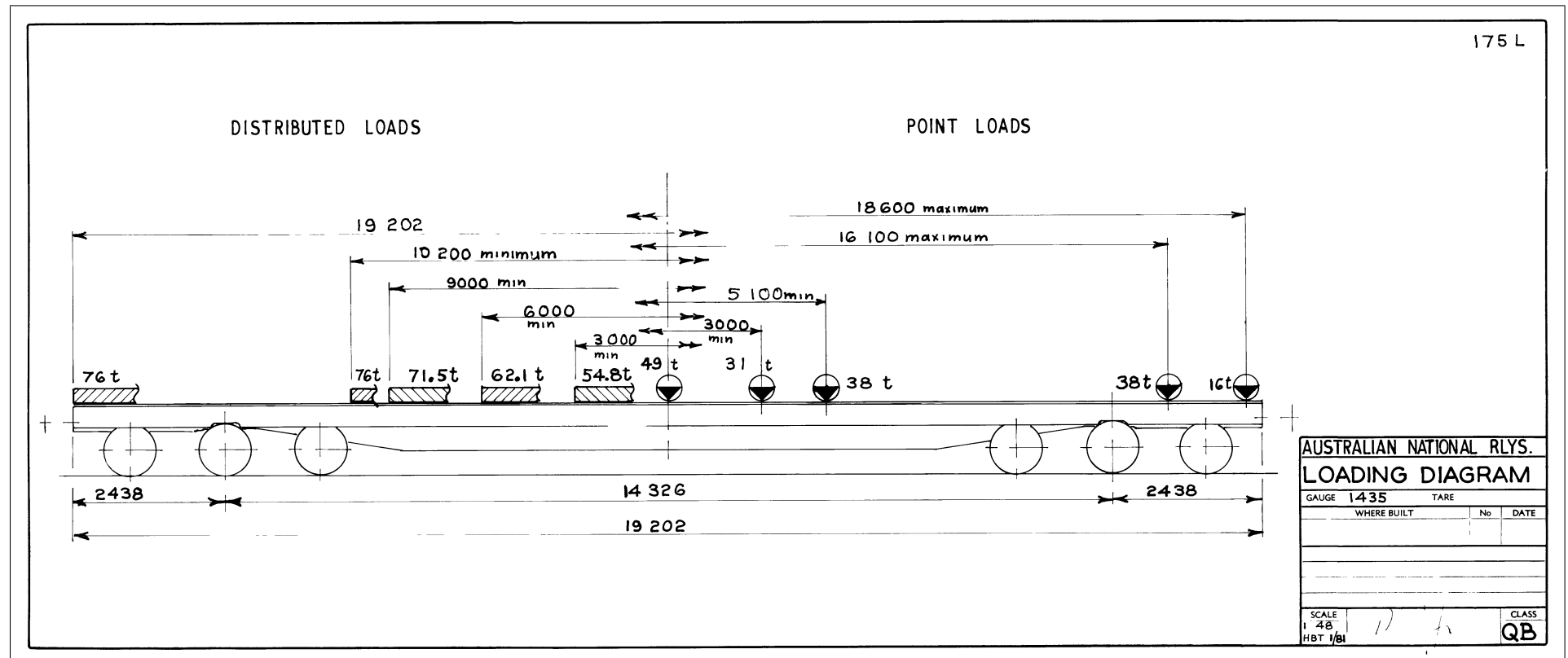
PlanId: NS174

18.4 QB 19.202m Heavy Load Wagon



PlanId: NS175

18.5 QB Loading Diagram



PlanId: NS175L



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CHAPTER

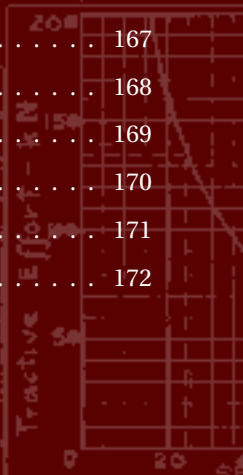
19

OPEN WAGONS

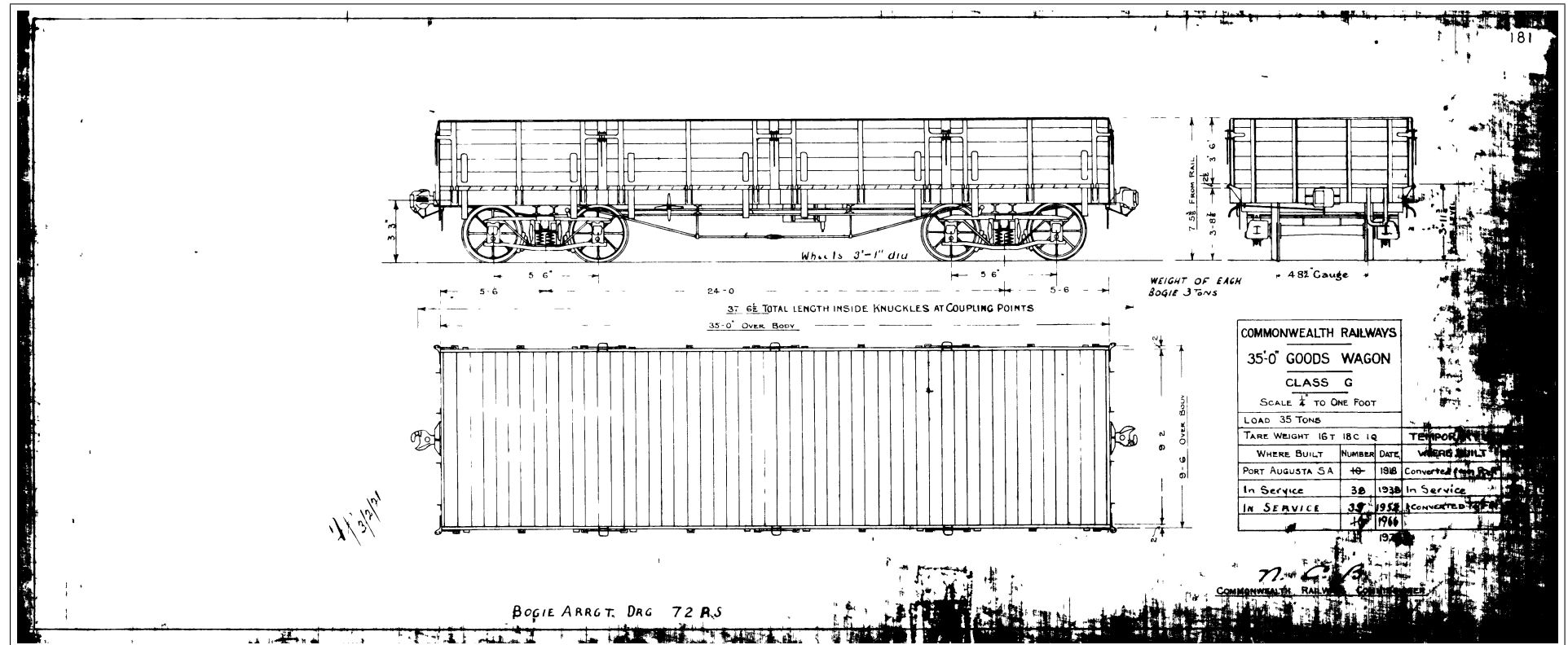
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Diesel Engine Type/Ki-567B, Two Stroke
Engine Speed 735 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion - 184 kN
Continuous - 132 kN
Four (4) Traction Motors - 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

S P E C I F I C A T I O N
Fuel Oil Capacity 6,825 litres (approx. wt. 5.7 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 36T fuel)
One Bogie Complete 33,403 kg
Engine & Generator 21,364 kg
155 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

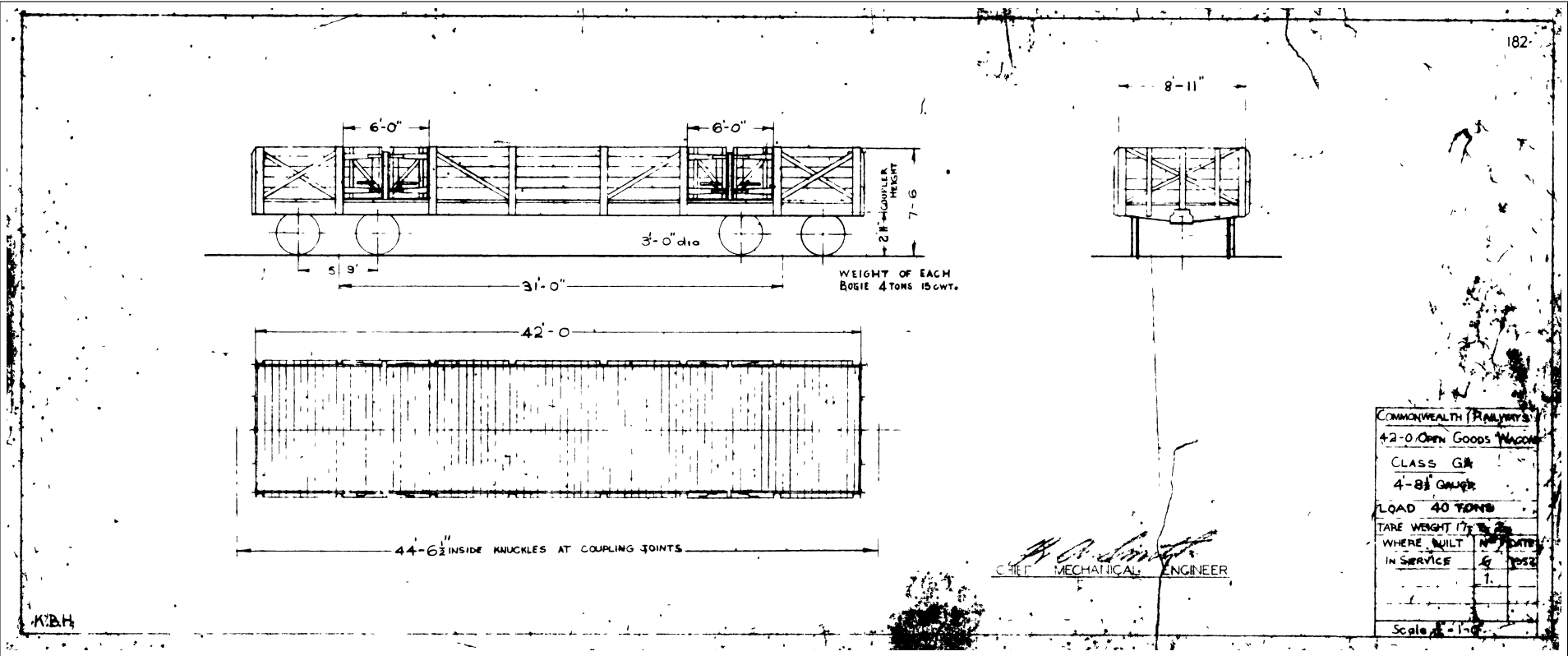


19.1 G Goods Wagon



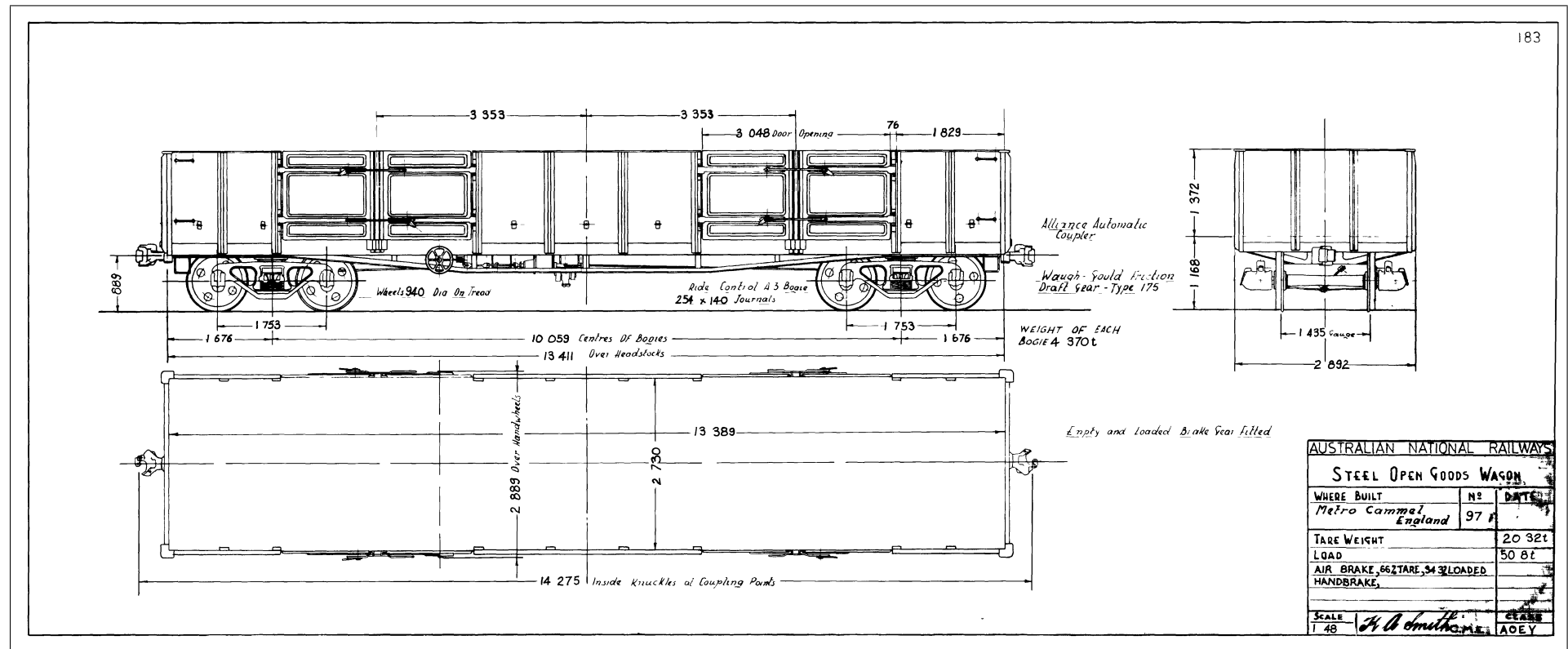
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19.2 GA Goods Wagon



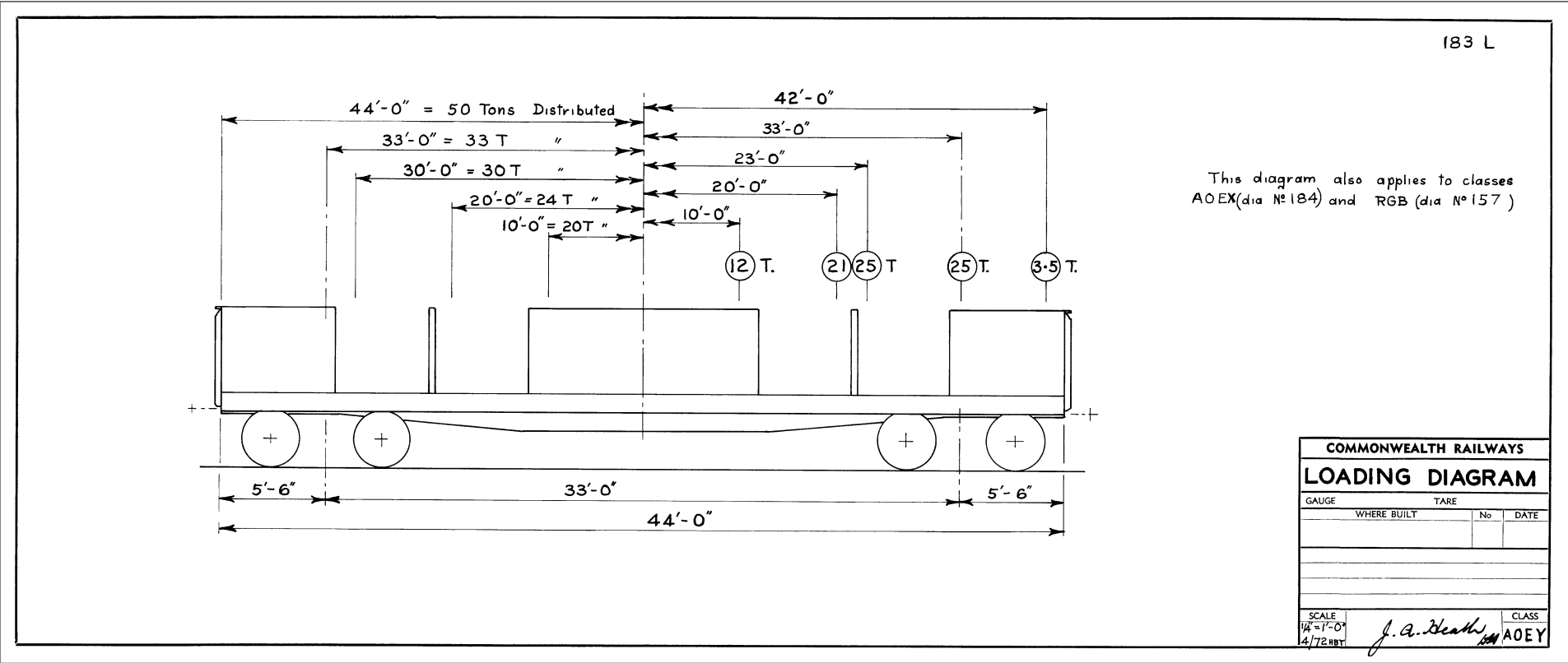
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19.3 AOEY Steel Open Goods Wagon



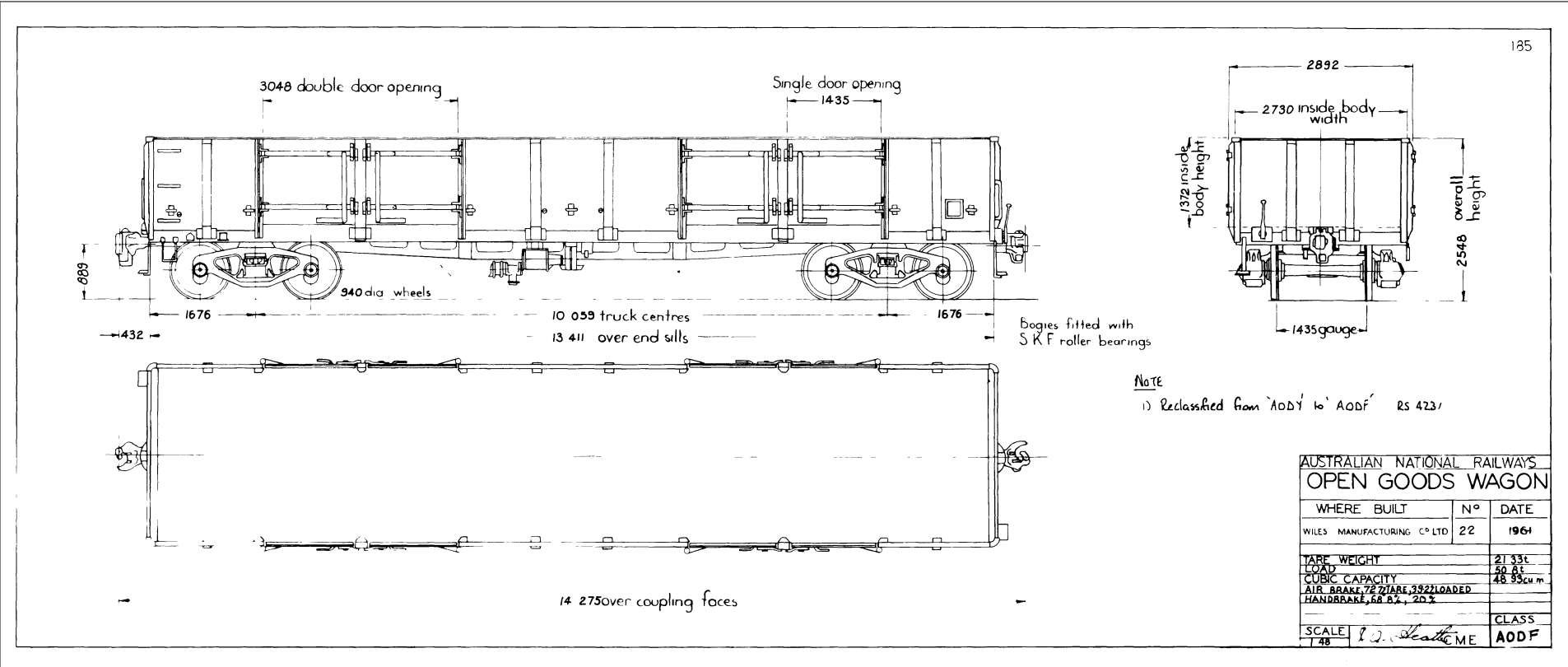
PlanId: NS183

19.4 AOEY Loading Diagram



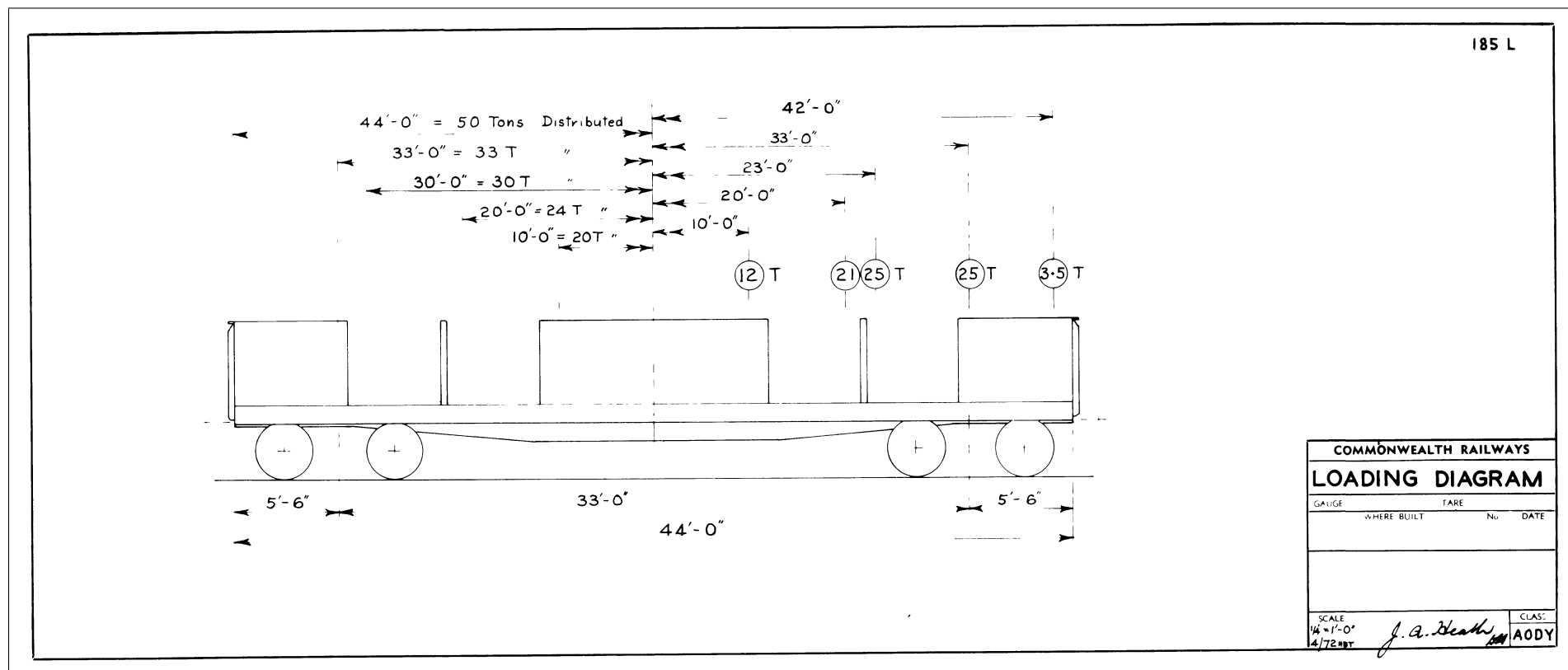
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19.6 AODF Open Goods Wagon



PlanId: NS185

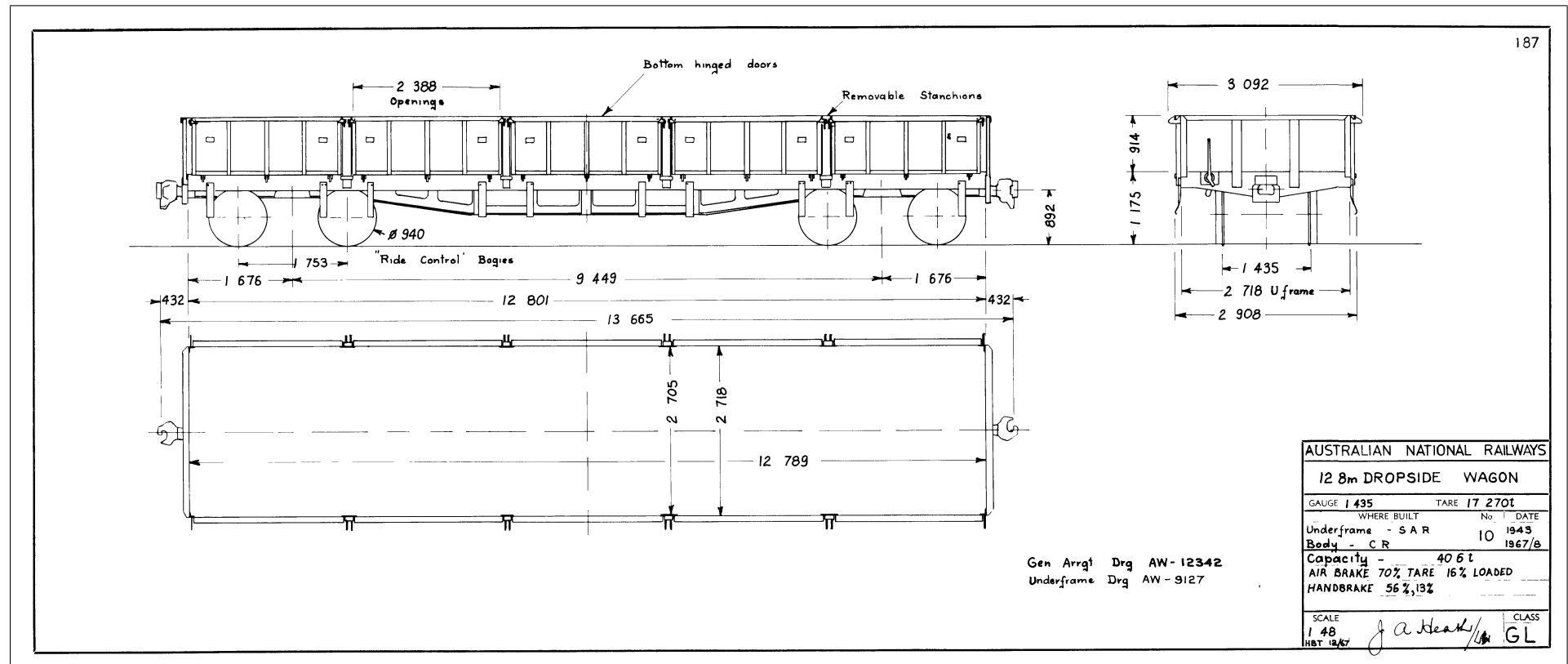
19.7 AODY Loading Diagram



PlanId: NS185L

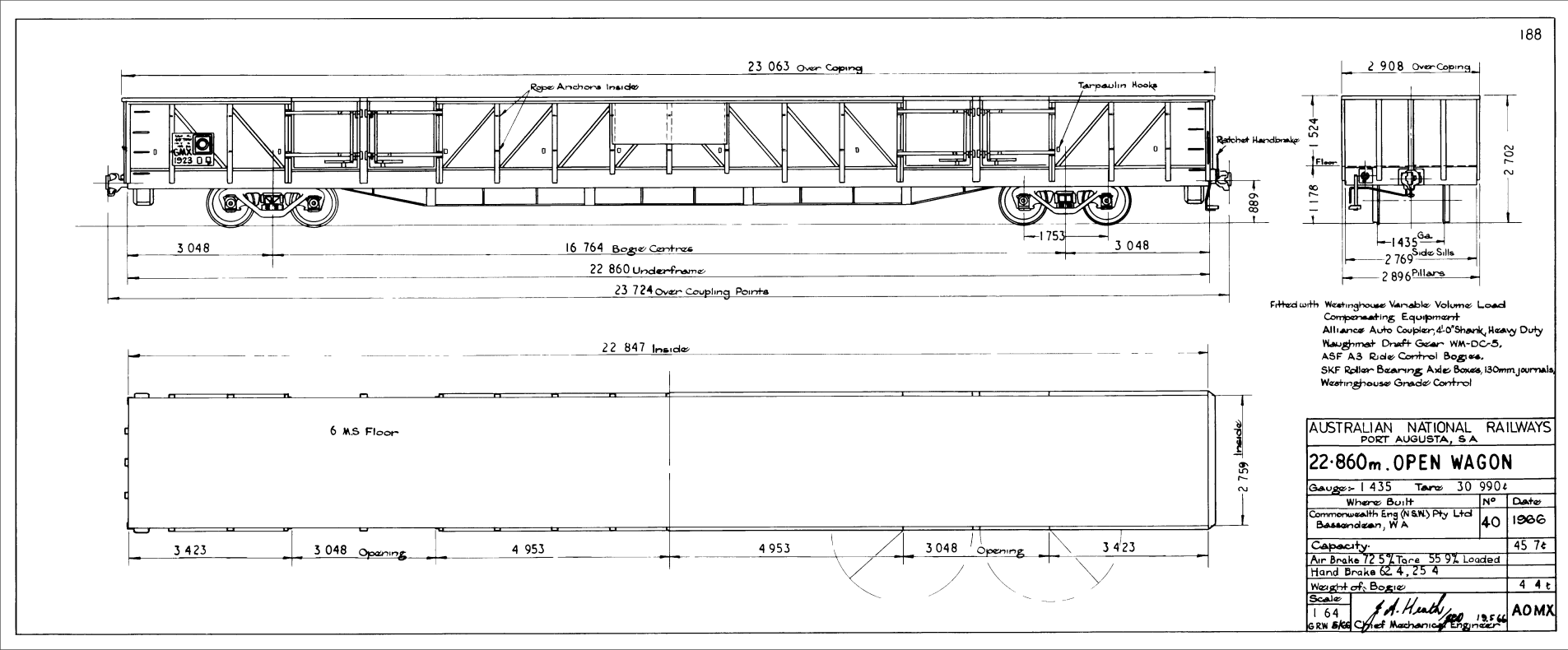


19.9 GL 12.8m Dropside Wagon



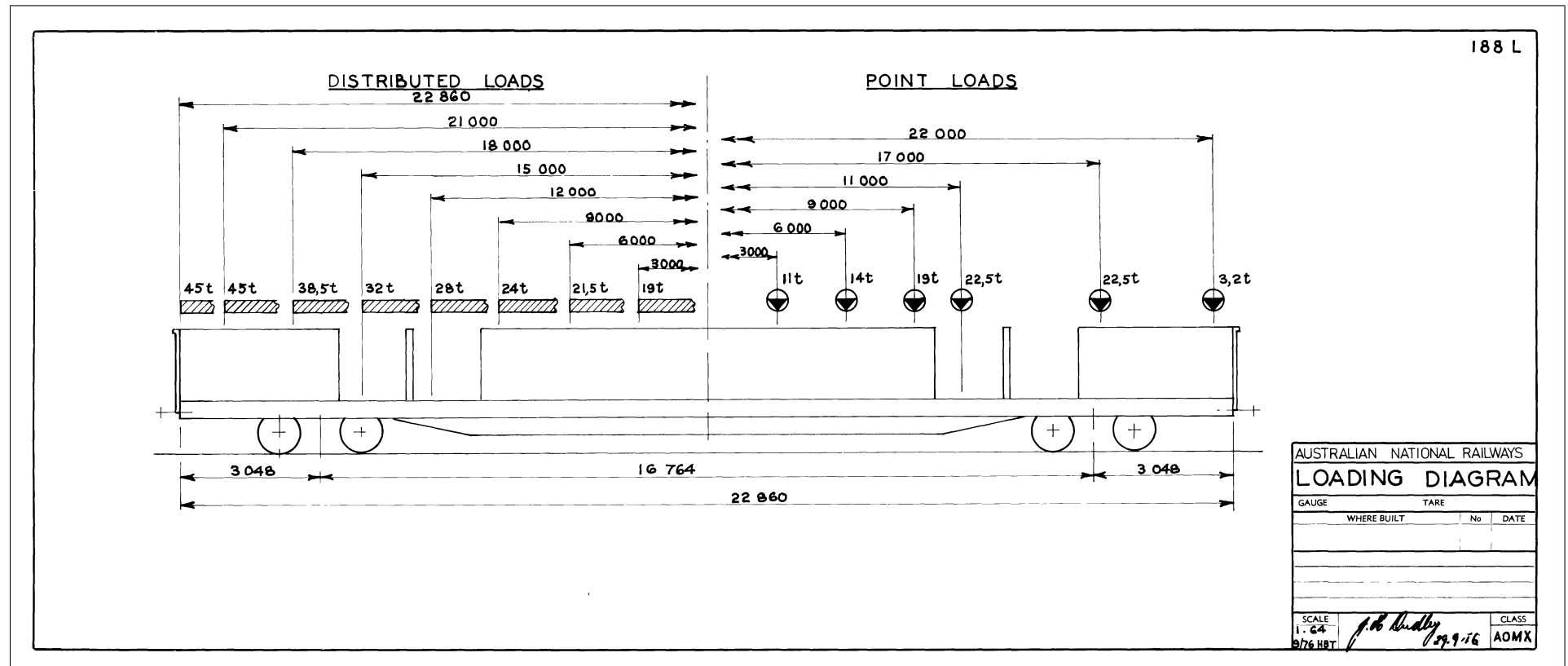
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19.10 AOMX 22.86m Open Wagon



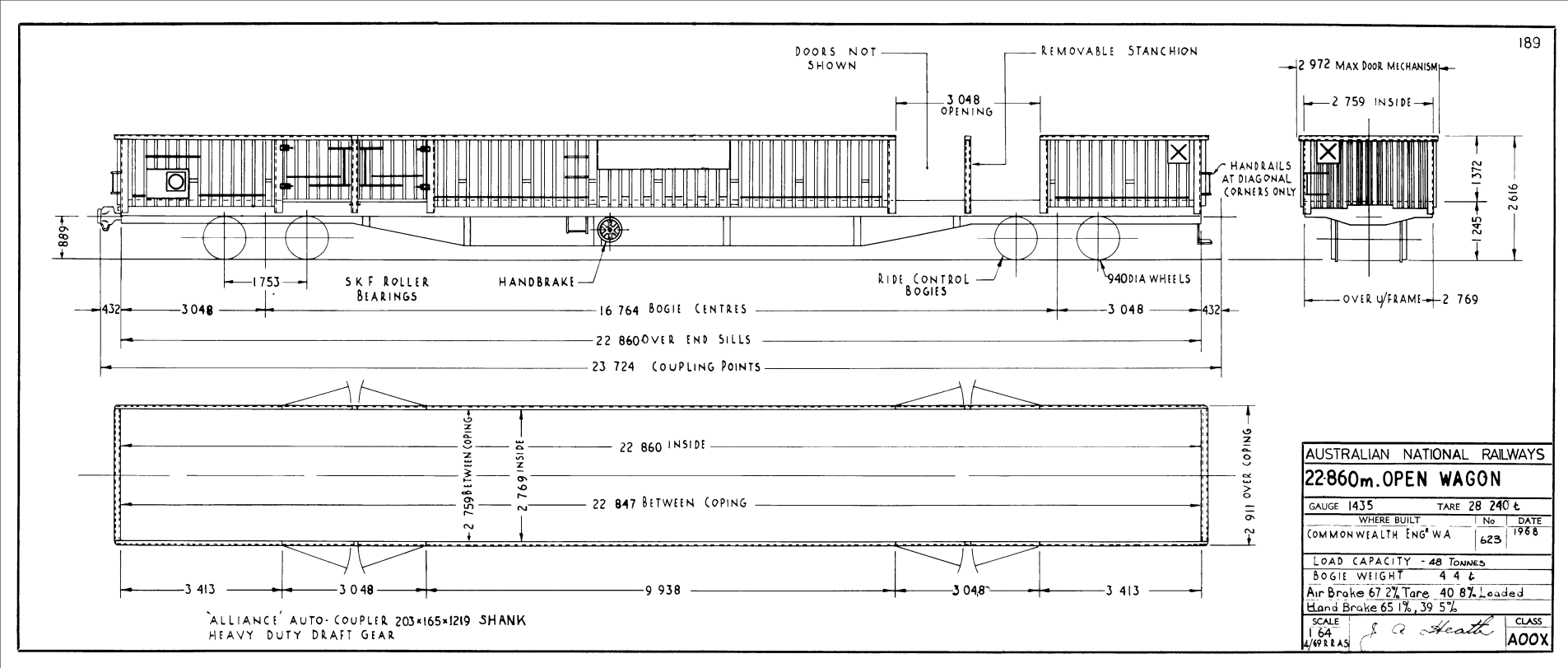
PlanId: NS188

19.11 AOMX Loading Diagram

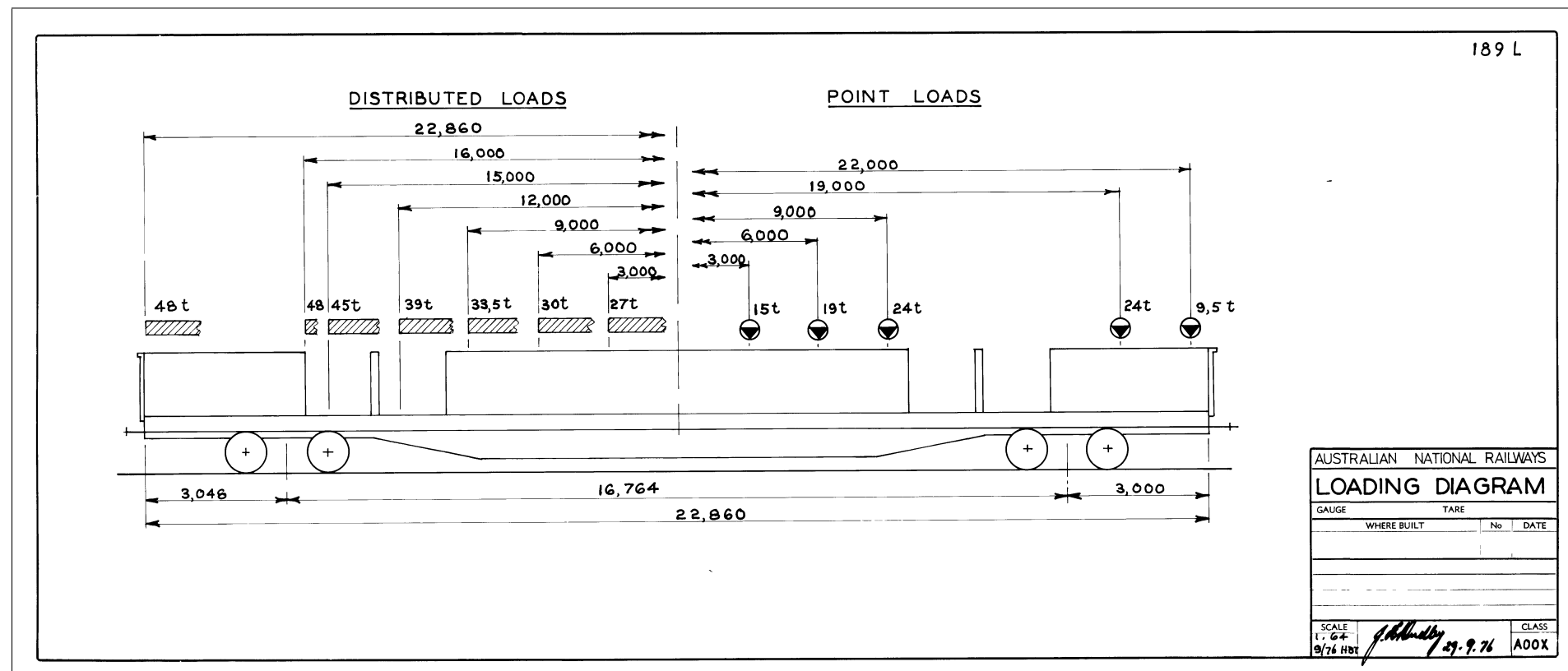


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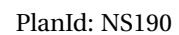
19.12 AOOX 22.86m Open Wagon



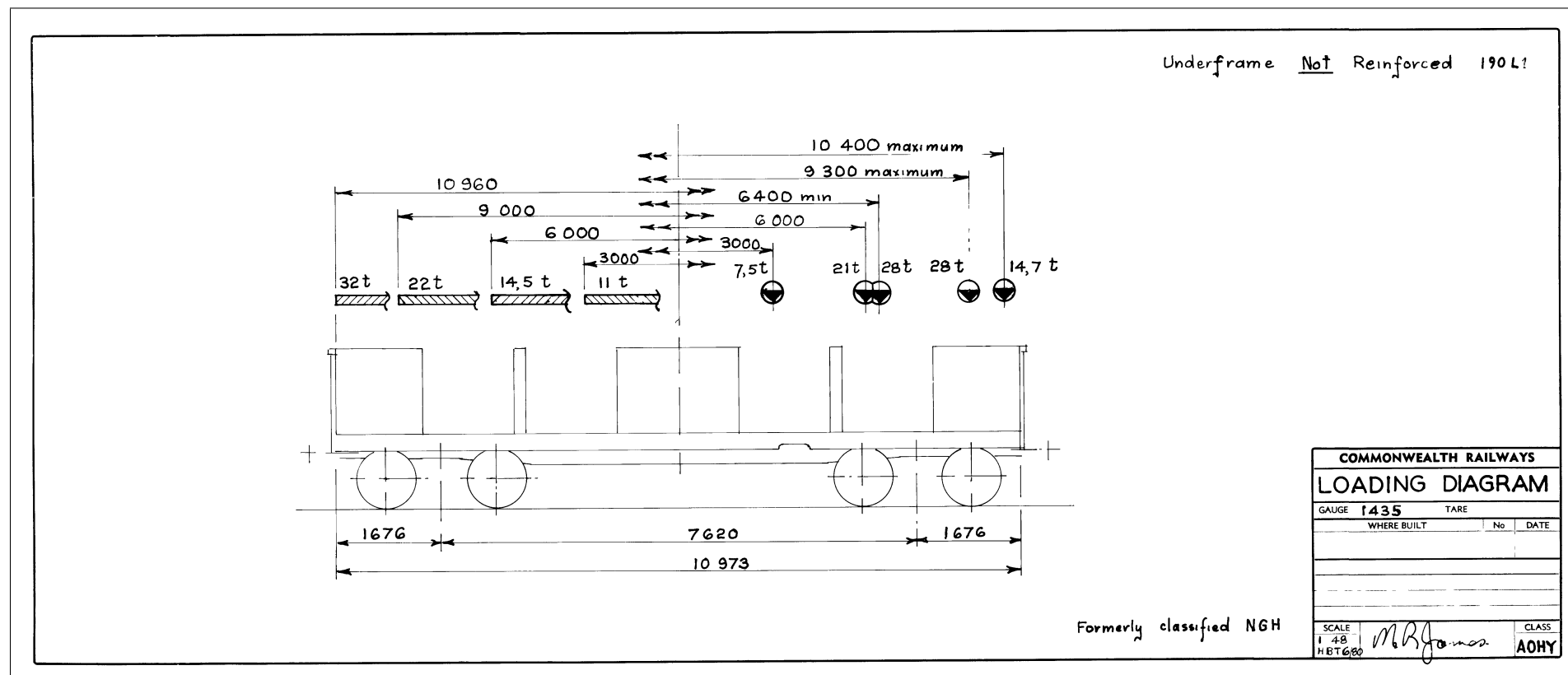
PlanId: NS189



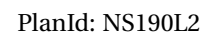
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19.15 AOHY Loading Diagram



PlanId: NS190L1



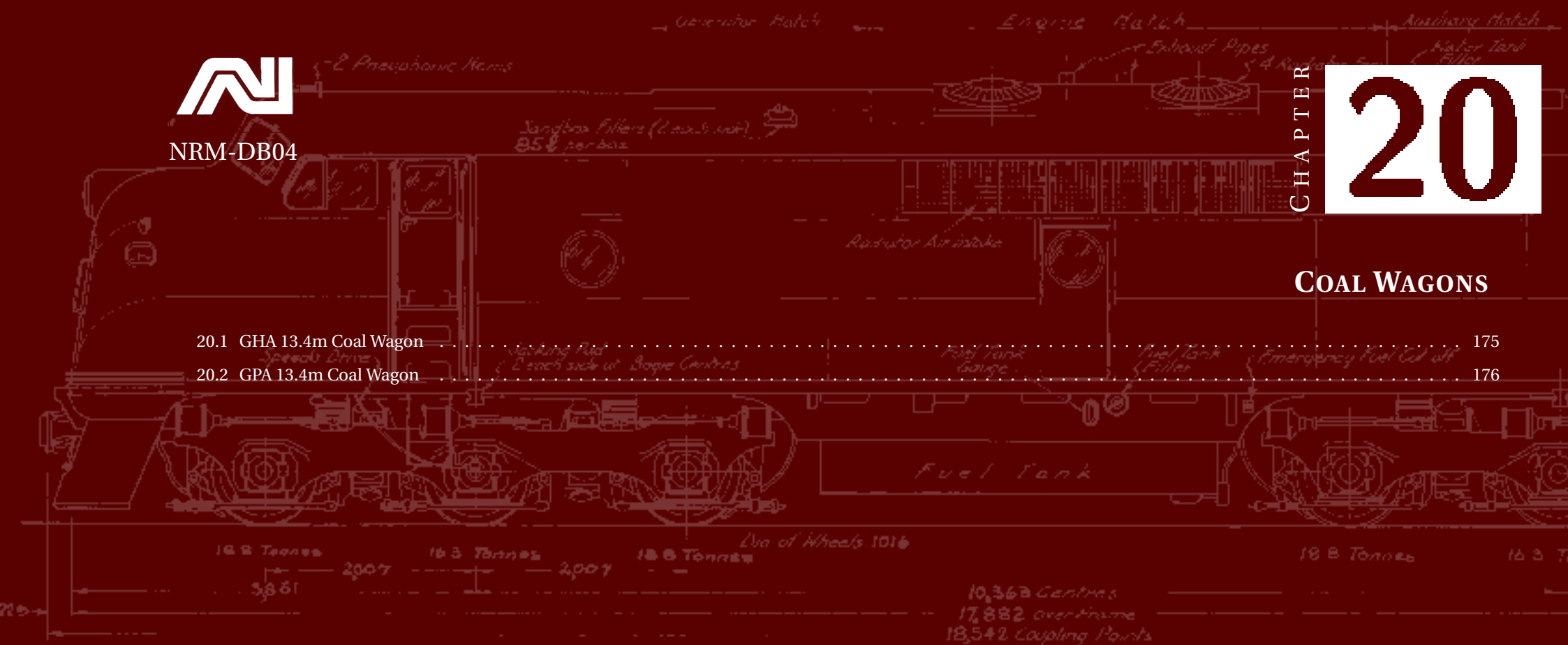


CHAPTER

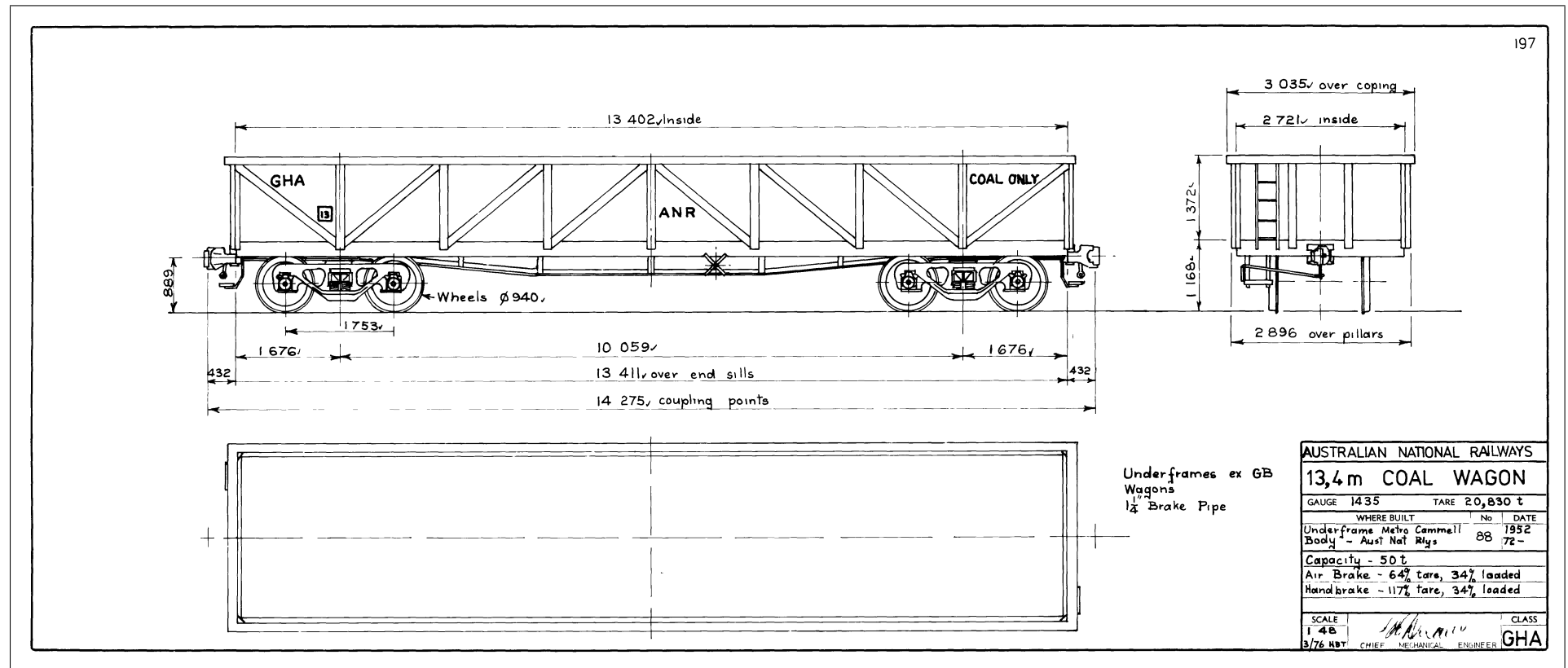
20

COAL WAGONS

20.1	GHA 13.4m Coal Wagon	Working Rod	Roll Tank Gauge	Roll Tank Filler	Emergency Fuel Cut off	175
20.2	GPA 13.4m Coal Wagon	2 inch steel w/ Square Gaskets				176

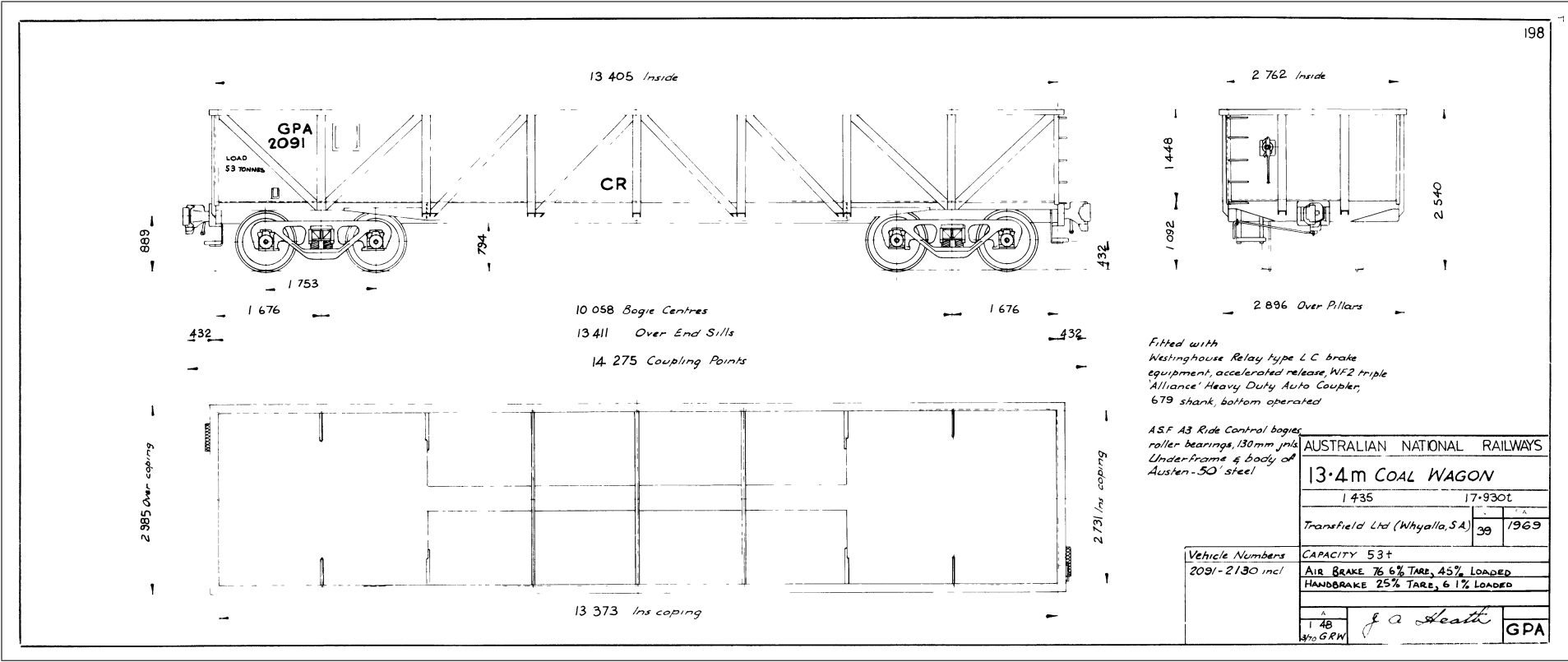


20.1 GHA 13.4m Coal Wagon



PlanId: NS197

20.2 GPA 13.4m Coal Wagon



PlanId: NS198



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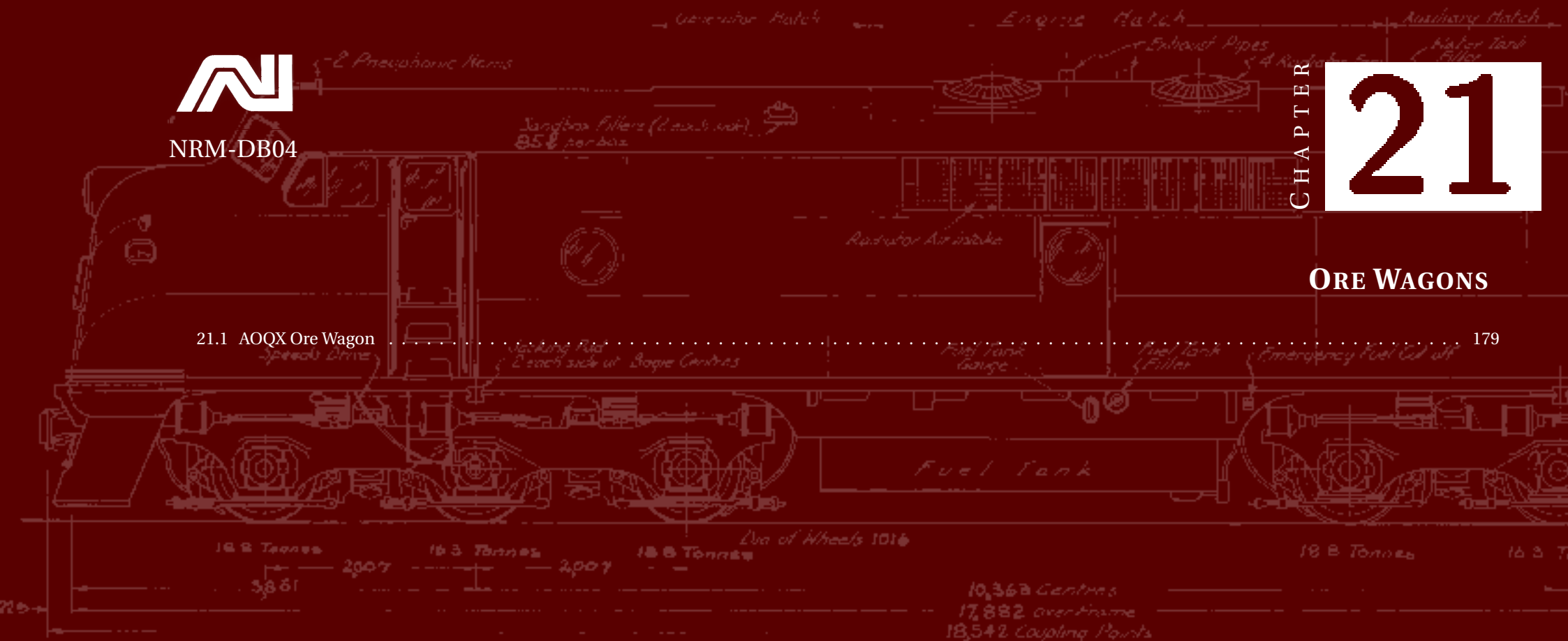
CHAPTER

21

ORE WAGONS

21.1 AOQX Ore Wagon

179



GENERAL

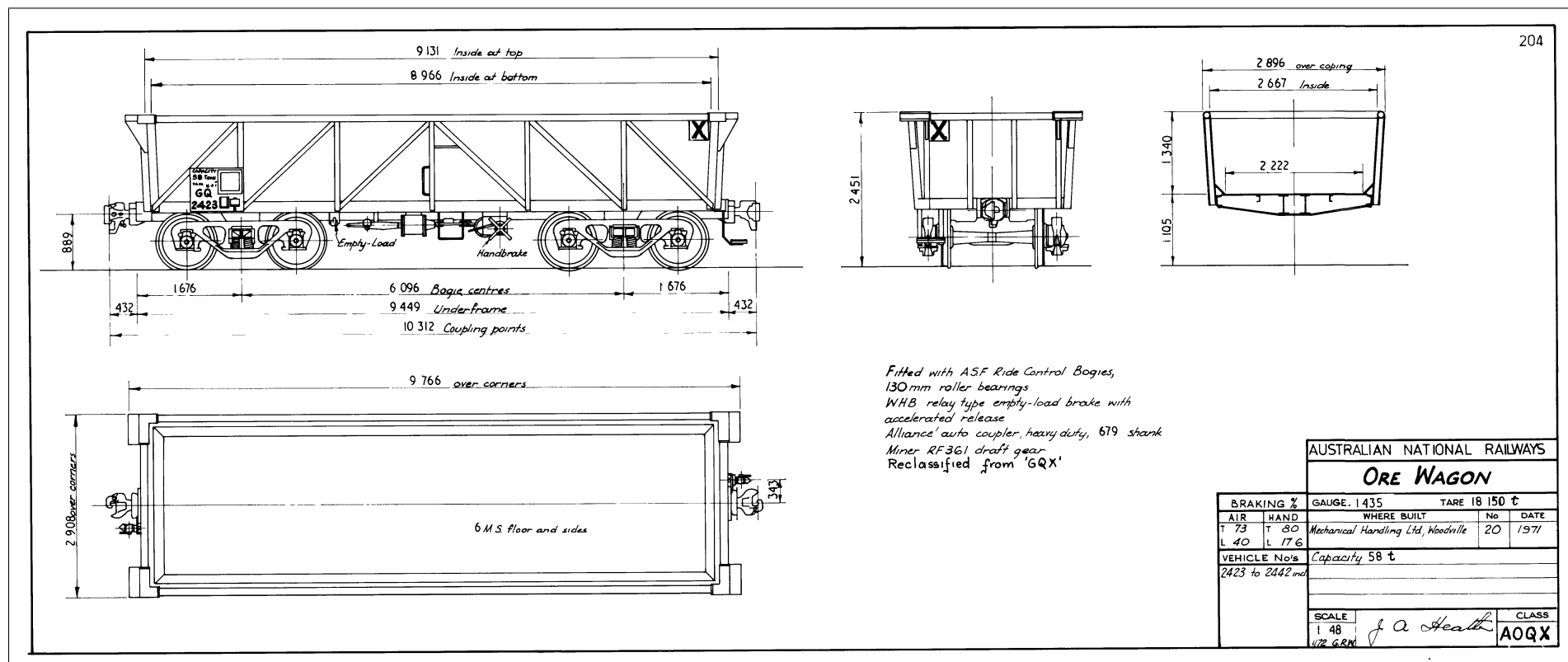
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 277 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



21.1 AOQX Ore Wagon



PlanId: NS204



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CHAPTER

22

MOTOR VEHICLE WAGON

22.1	AMCX 70ft Motor Car Carrier	183
22.2	AMGY Motor Vehicle Transport Wagon	184
22.3	AMKY Motor Vehicle Transport Wagon	185
22.4	AMNX Motor Vehicle Transport Wagon	186

GENERAL

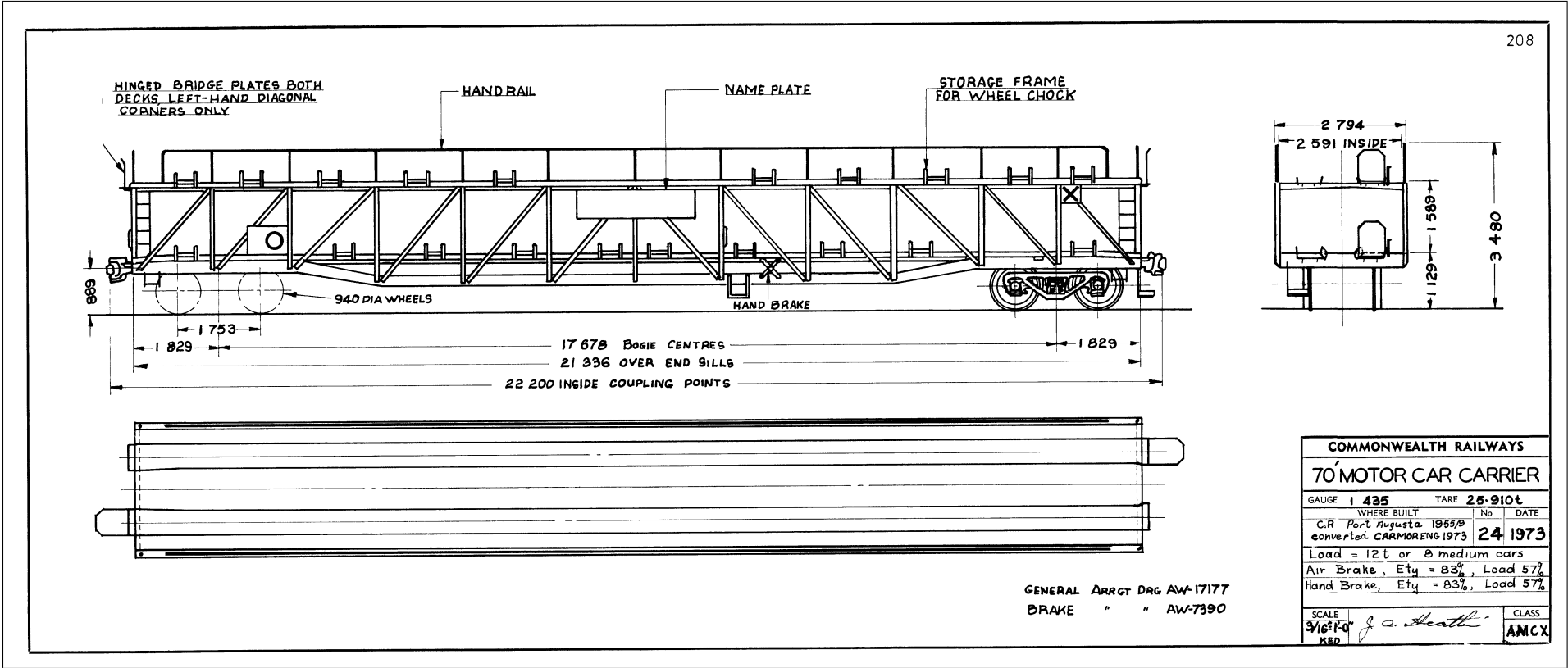
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 181 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

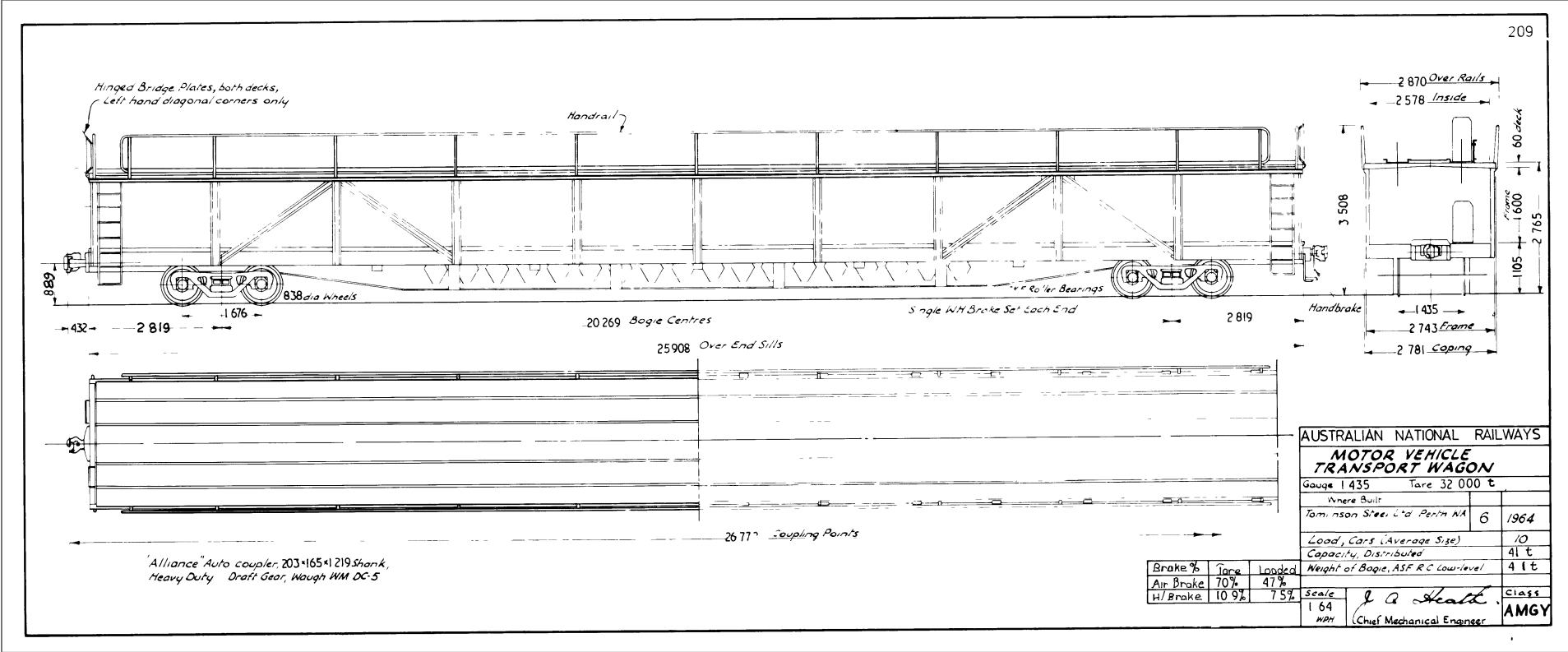


22.1 AMCX 70ft Motor Car Carrier



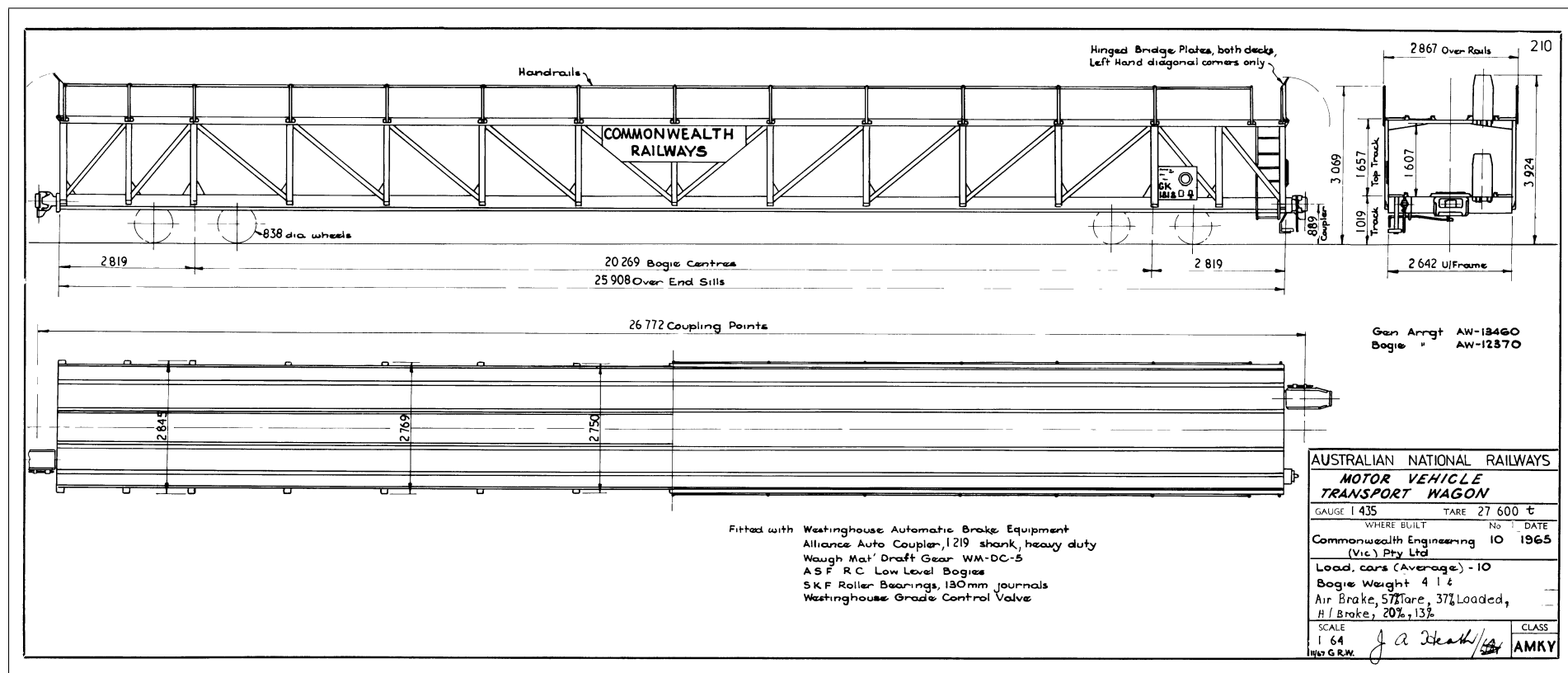
PlanId: NS208

22.2 AMGY Motor Vehicle Transport Wagon



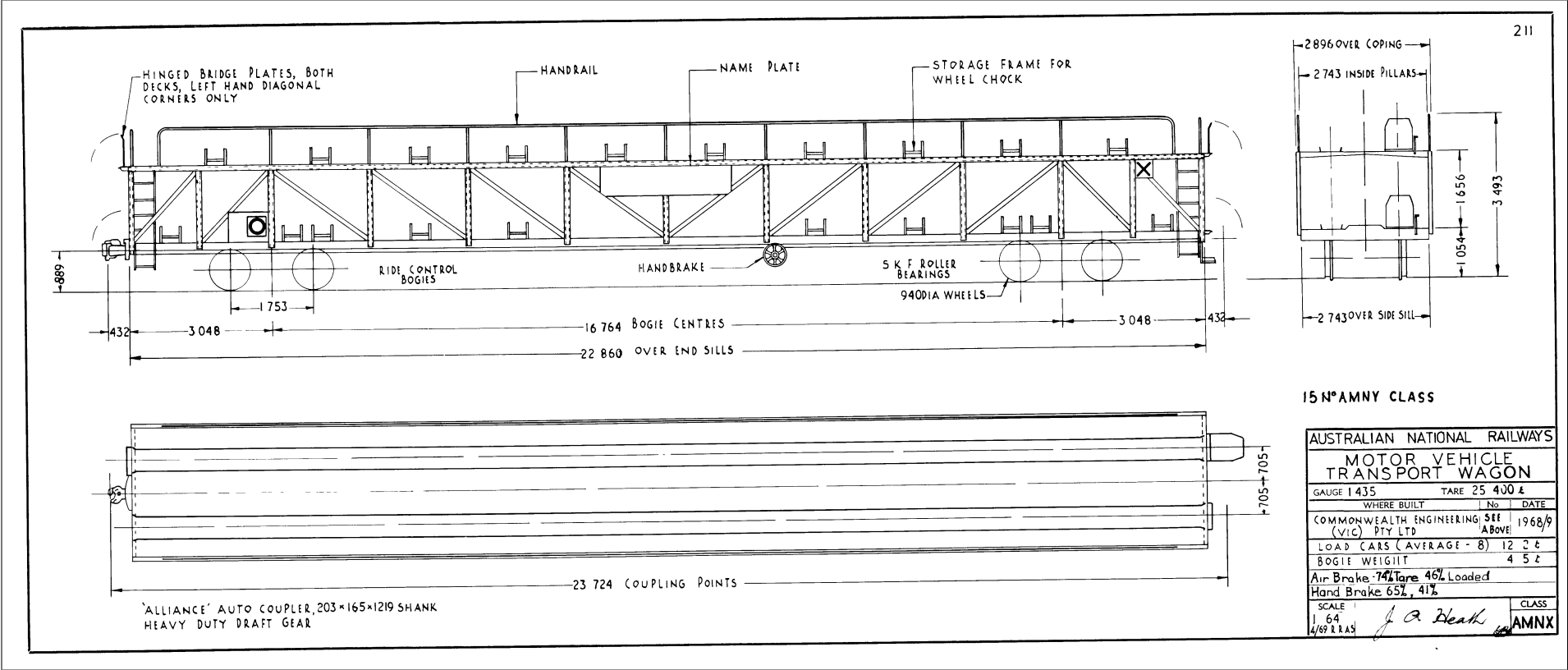
PlanId: NS209

22.3 AMKY Motor Vehicle Transport Wagon



PlanId: NS210

22.4 AMNX Motor Vehicle Transport Wagon



PlanId: NS211



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CHAPTER

23

BALLAST HOPPER WAGON

23.1 B Hopper Wagon	189
23.2 BA Ballast Wagon	190
23.3 BB Ballast Wagon	191
23.4 WSH Ballast Wagon	192

GENERAL

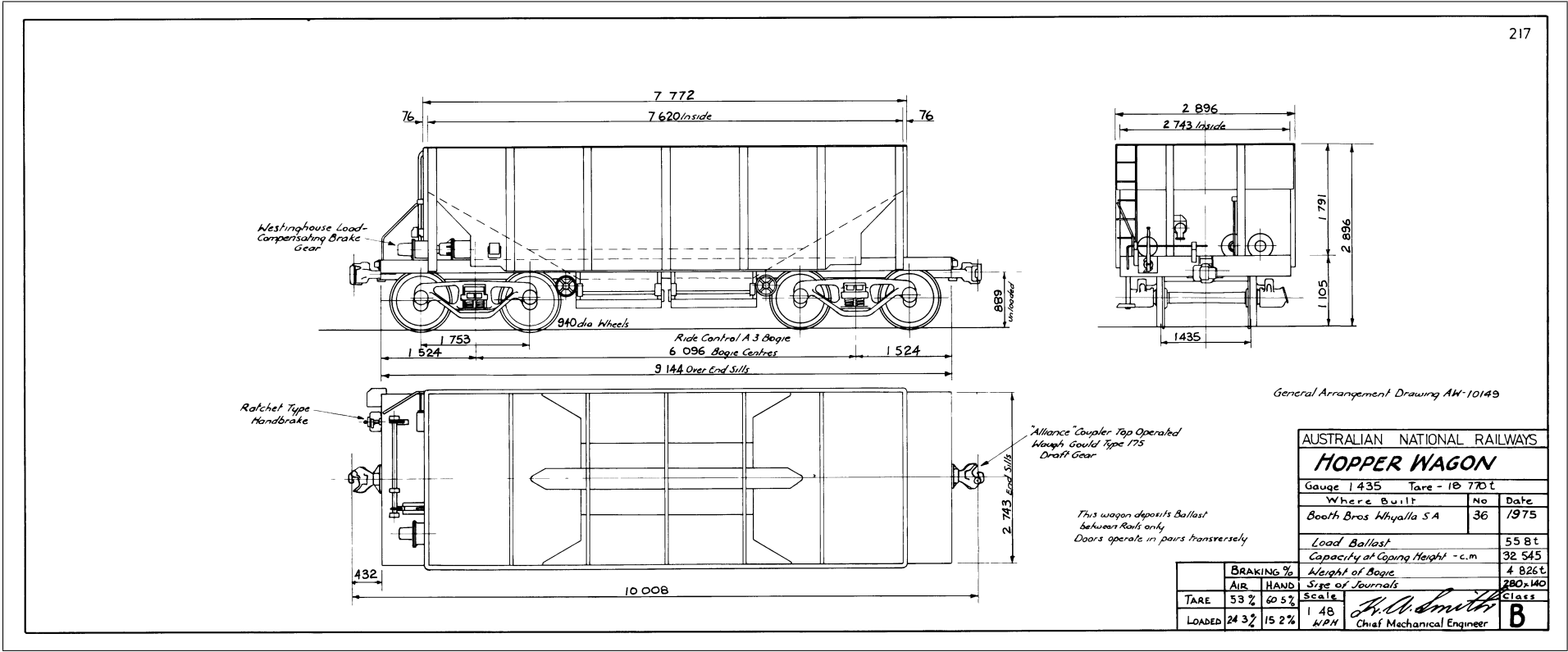
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 187 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

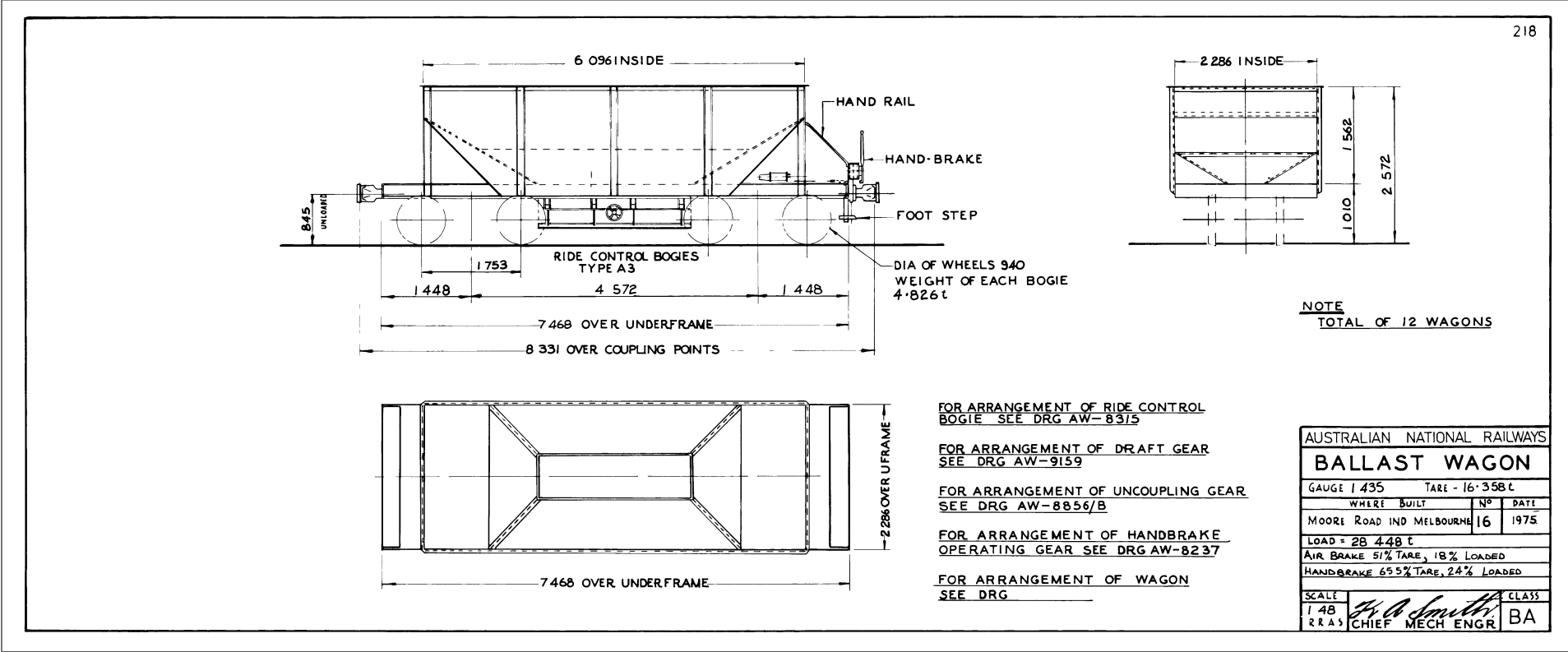


23.1 B Hopper Wagon



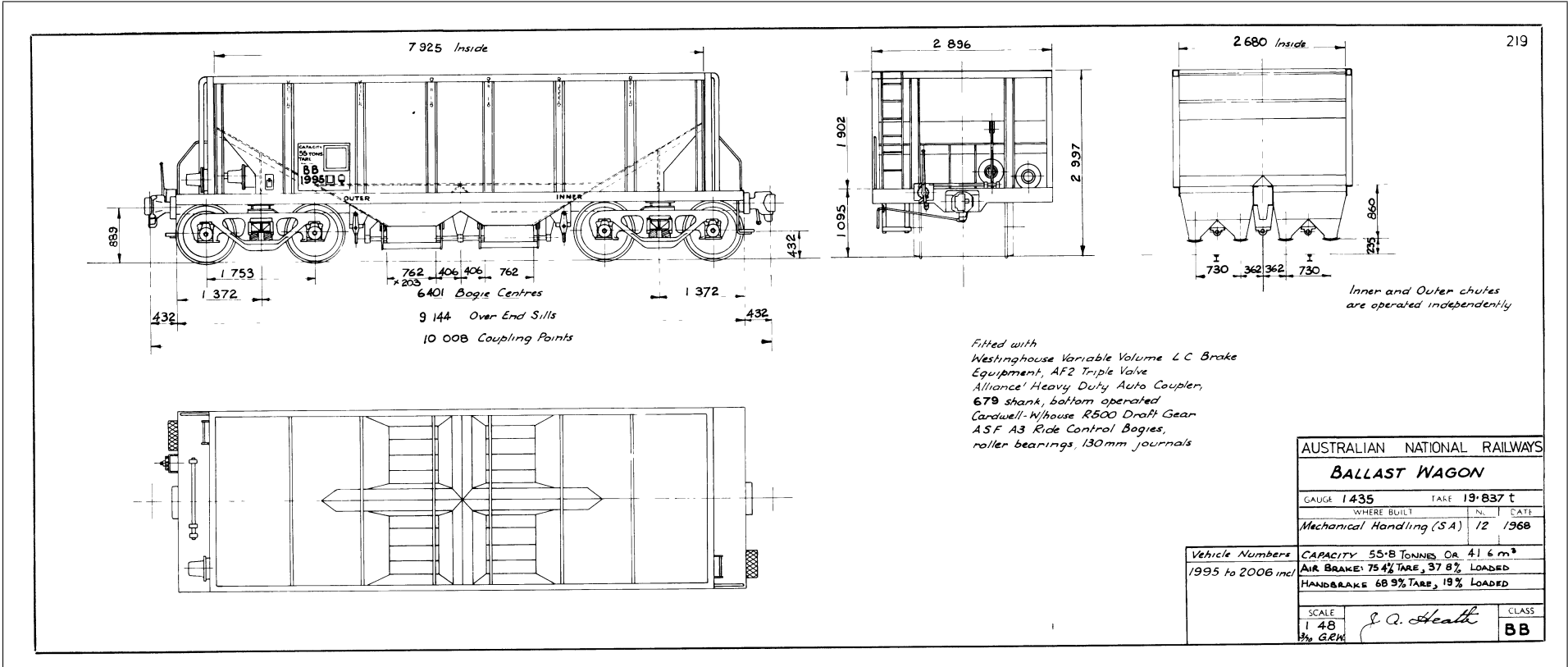
PlanId: NS217

23.2 BA Ballast Wagon



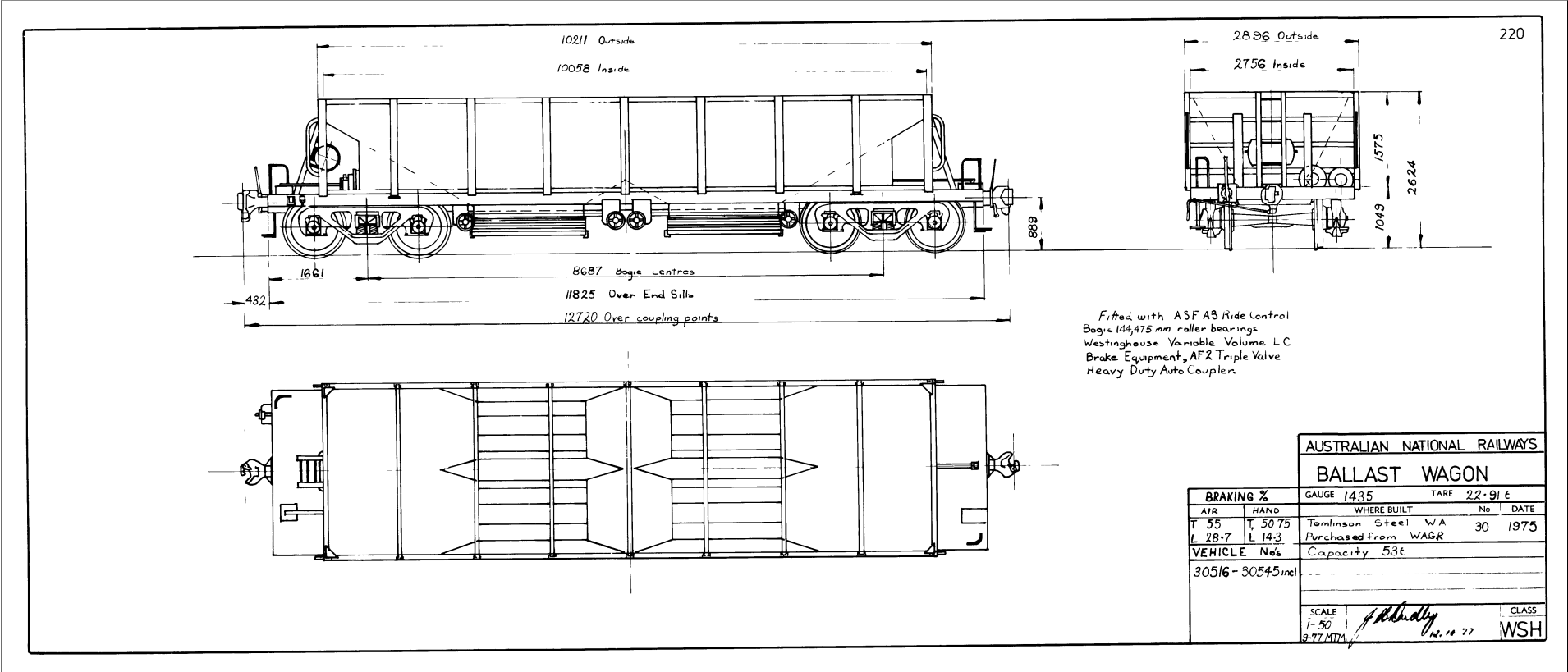
PlanId: NS218

23.3 BB Ballast Wagon



PlanId: NS219

23.4 WSH Ballast Wagon



PlanId: NS220



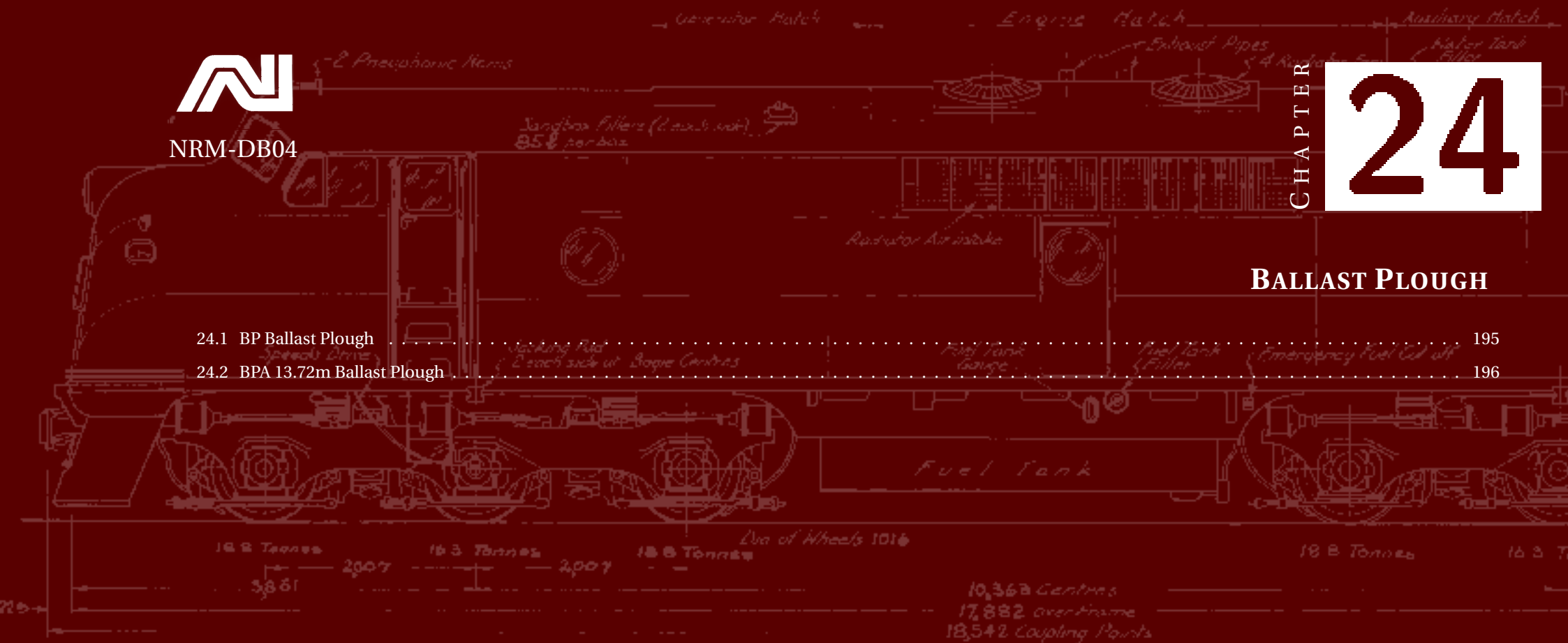
NRM-DB04

CHAPTER

24

BALLAST PLOUGH

24.1 BP Ballast Plough	195
24.2 BPA 13.72m Ballast Plough	196

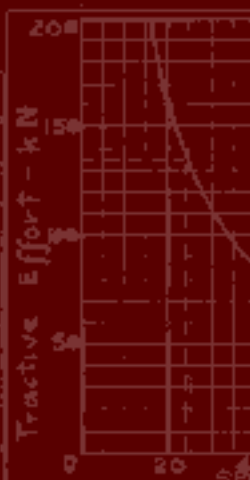


GENERAL

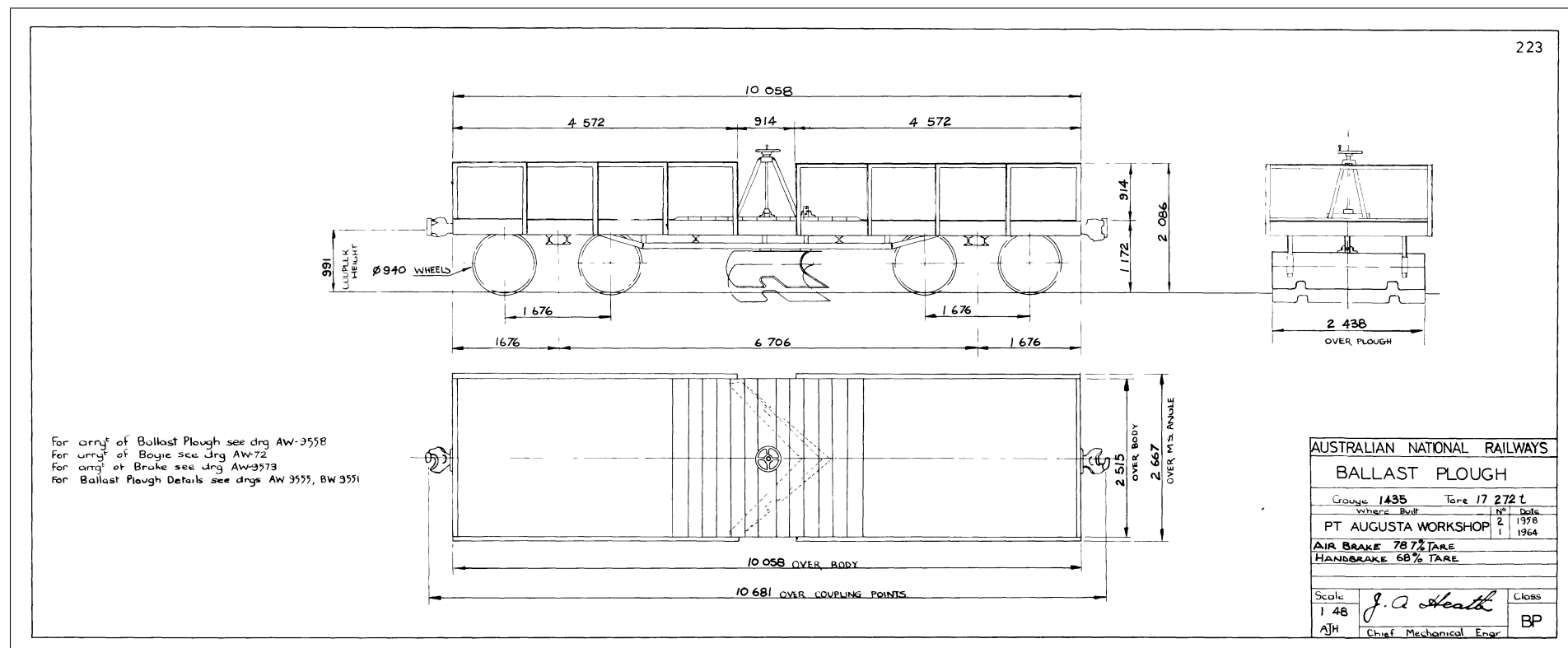
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 193 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

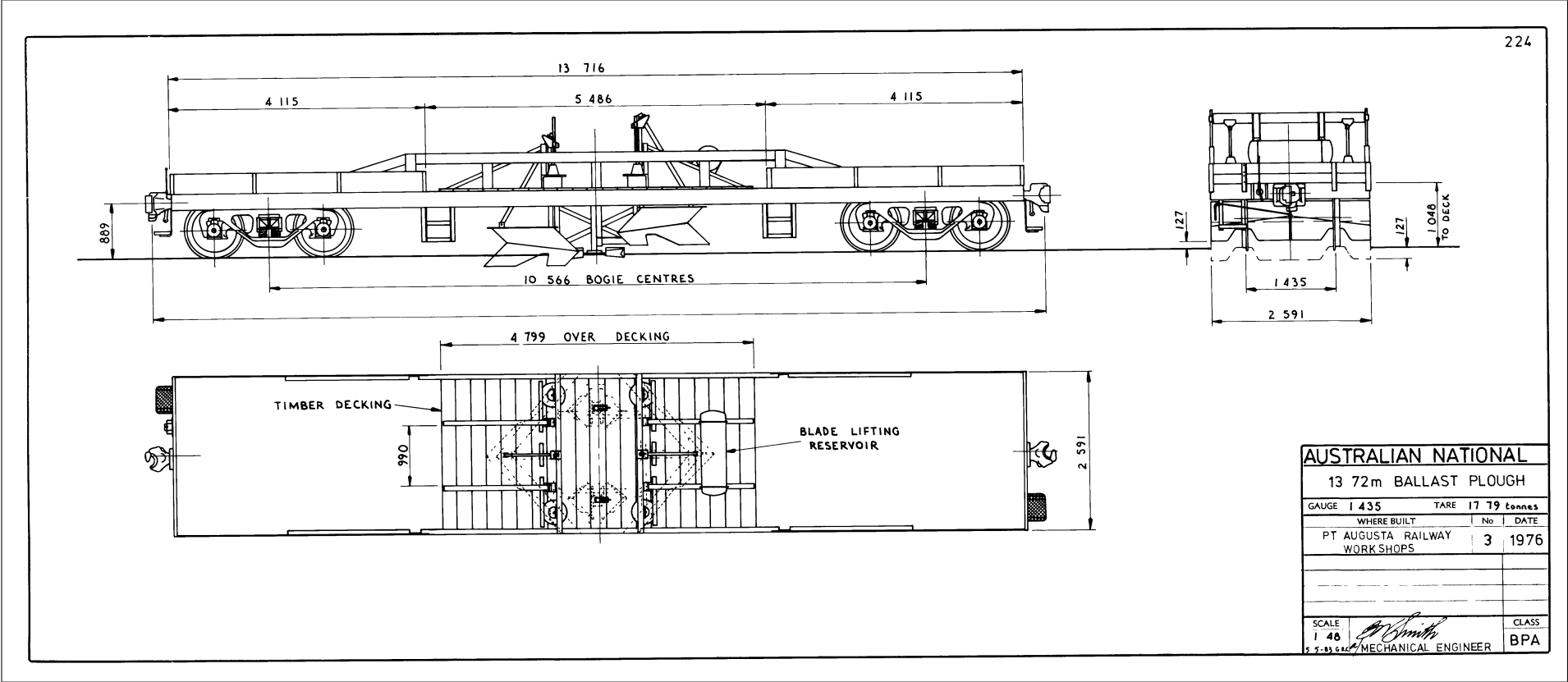


24.1 BP Ballast Plough



PlanId: NS223

24.2 BPA 13.72m Ballast Plough



PlanId: NS224



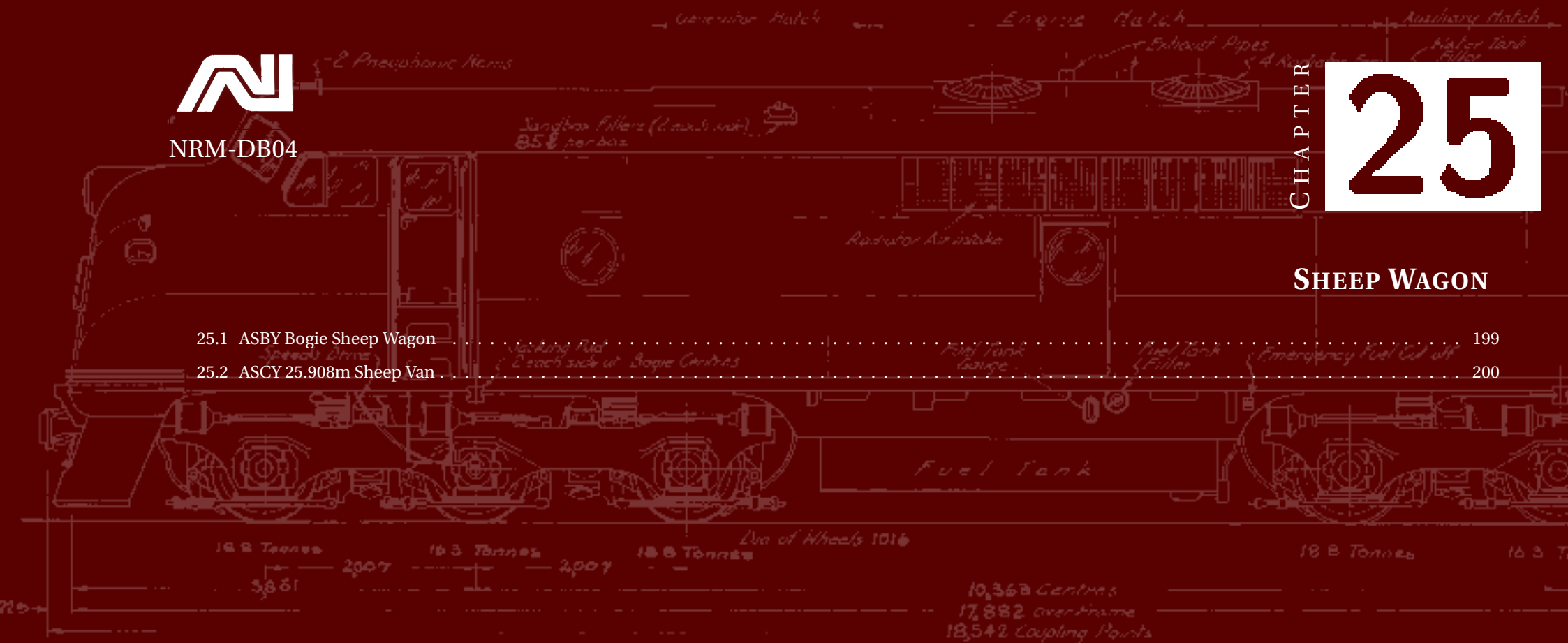
NRM-DB04

CHAPTER

25

SHEEP WAGON

25.1 ASBY Bogie Sheep Wagon	199
25.2 ASCY 25.908m Sheep Van	200

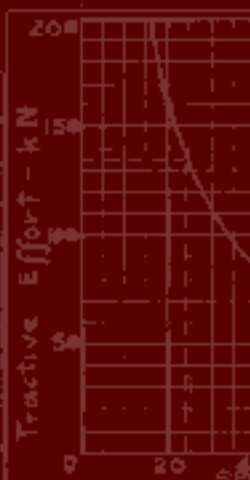


GENERAL

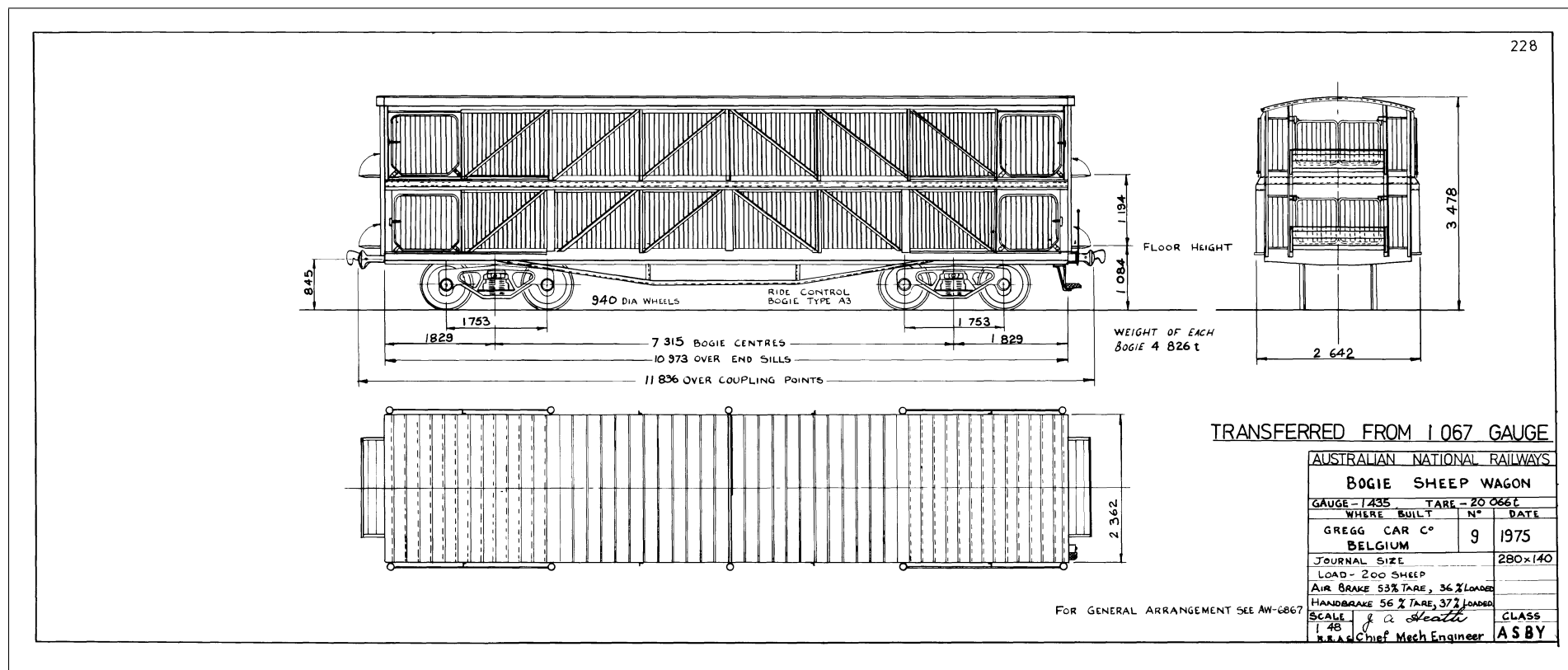
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke
Engine Speed	275-800 RPM
Generator	Model D12 converts 1120 kW for Traction (D.C.)
Alternator	Model D14 for Auxiliaries (A.C.)
Max Tractive Effort	Starting, 25% adhesion - 184 kN
"	Continuous - 132 kN
Four (4) Traction Motors	- 8 Driving Wheels
Gear Ratio	58-19
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity	6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity	730 litres
Cooling Water Capacity	842 litres
Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T fuel)
"	One Bogie Complete
"	Engine & Generator
"	197 Driving Wheels
Draft Gear	Knock Friction Type PA, Static Cap 181,818 kg

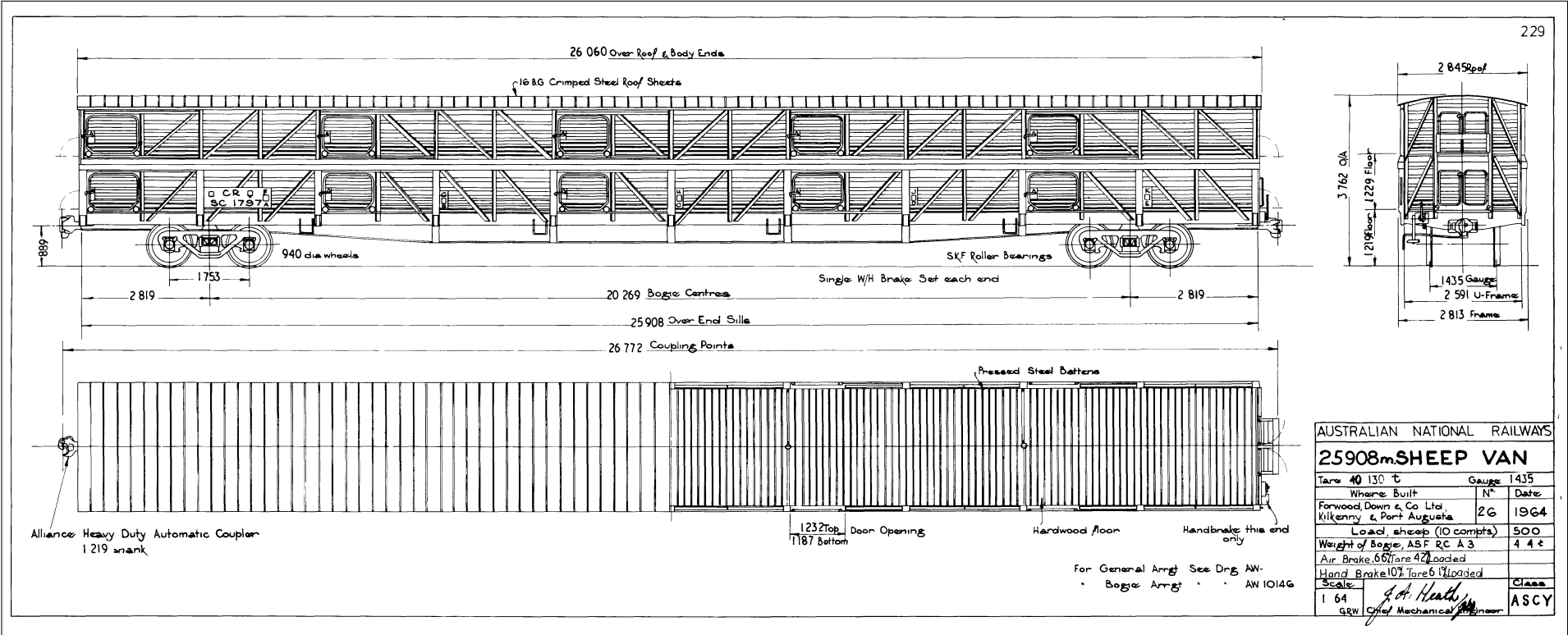


25.1 ASBY Bogie Sheep Wagon



PlanId: NS228

25.2 ASCY 25.908m Sheep Van



PlanId: NS229



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CHAPTER

26

CATTLE WAGON

26.1 ACBY 10.6m Cattle Wagon	203
26.2 ACCY 21.946m Cattle Van	204
26.3 ACDY Cattle Wagon	205
26.4 ACEY 21.336m Cattle Van	206
26.5 ACCX 21.946m Cattle Van	207

GENERAL

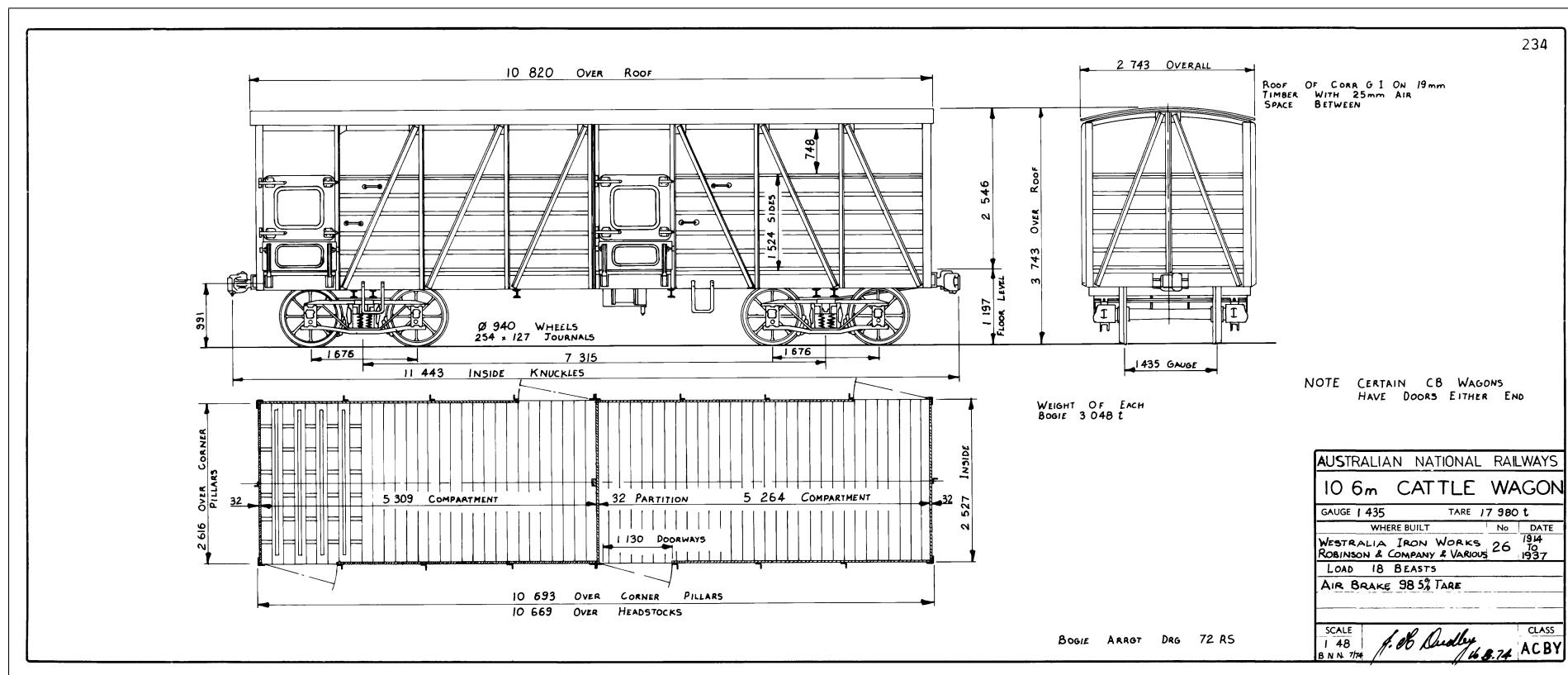
Diesel Engine General Motors EMD Type 161-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 201 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

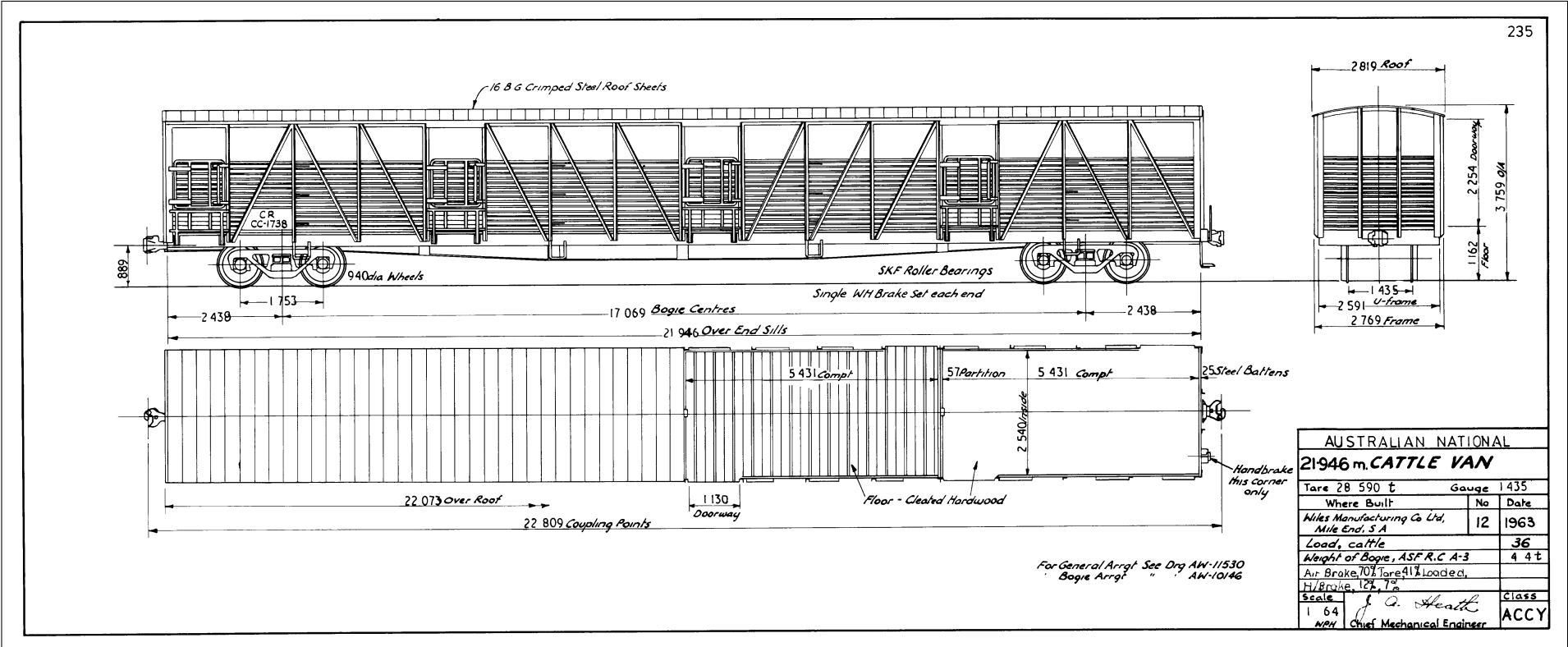


26.1 ACBY 10.6m Cattle Wagon

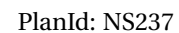


PlanId: NS234

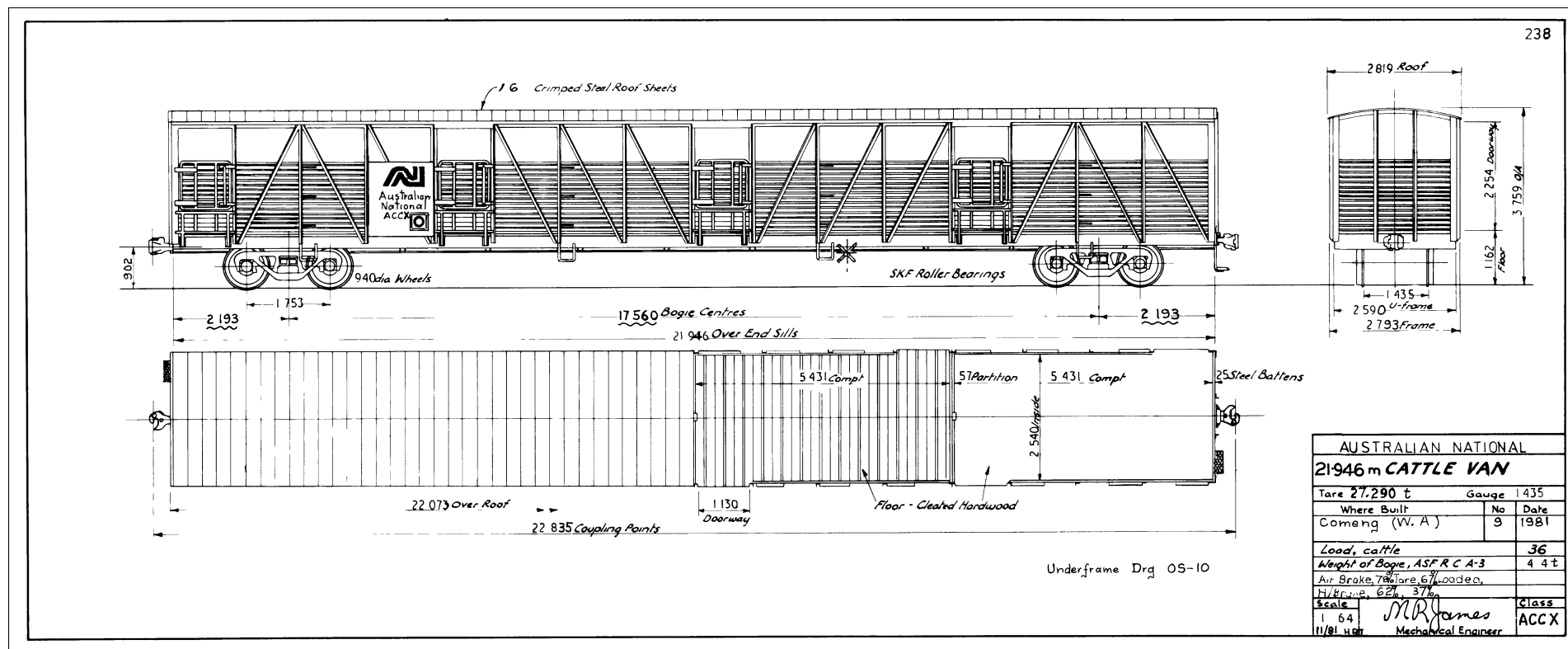
26.2 ACCY 21.946m Cattle Van



PlanId: NS235



26.5 ACCX 21.946m Cattle Van



PlanId: NS238



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CHAPTER

27

FUEL TANK WAGON

27.1	TOA 10m Petrol Tank Wagon	211
27.2	TOB 36ft Oil Tank Wagon	212
27.3	TOC 45 500L Tank Wagon	213
27.4	TOD 50 050LTank Wagon	214
27.5	TOG 95 500L Tank Car	215
27.6	TOK Fuel Tank Wagon	216

GENERAL

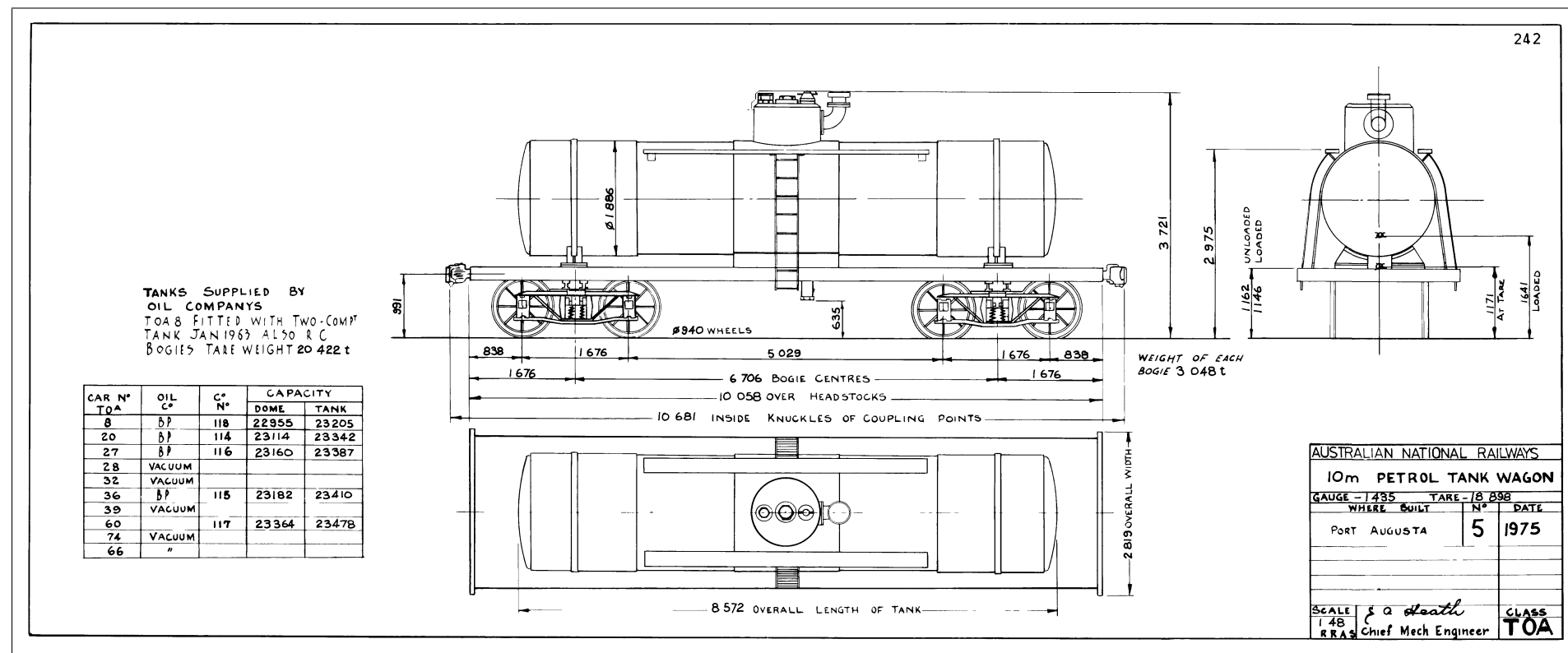
Diesel Engine General Motors EMD Type 161-567B, Two Strokes
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T Fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 209 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

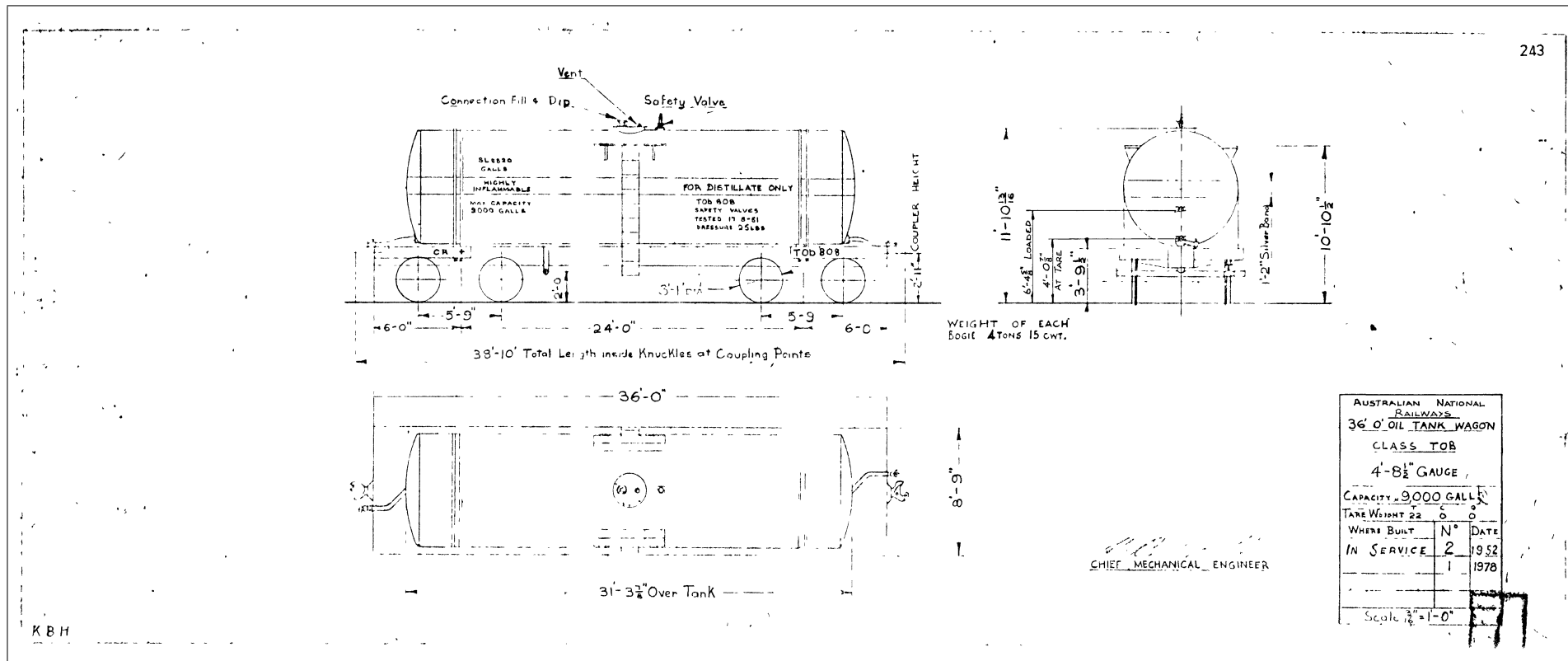


27.1 TOA 10m Petrol Tank Wagon

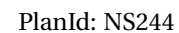


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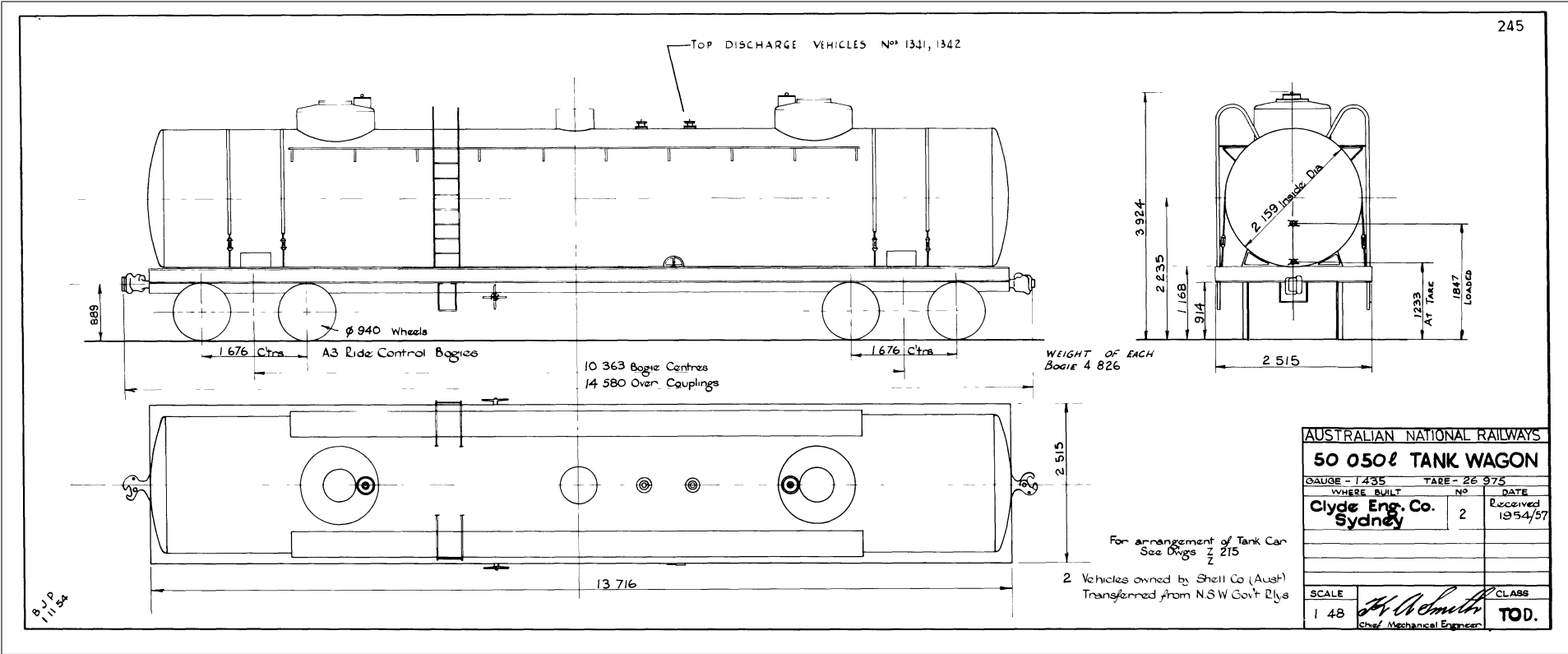
27.2 TOB 36ft Oil Tank Wagon



PlanId: NS243

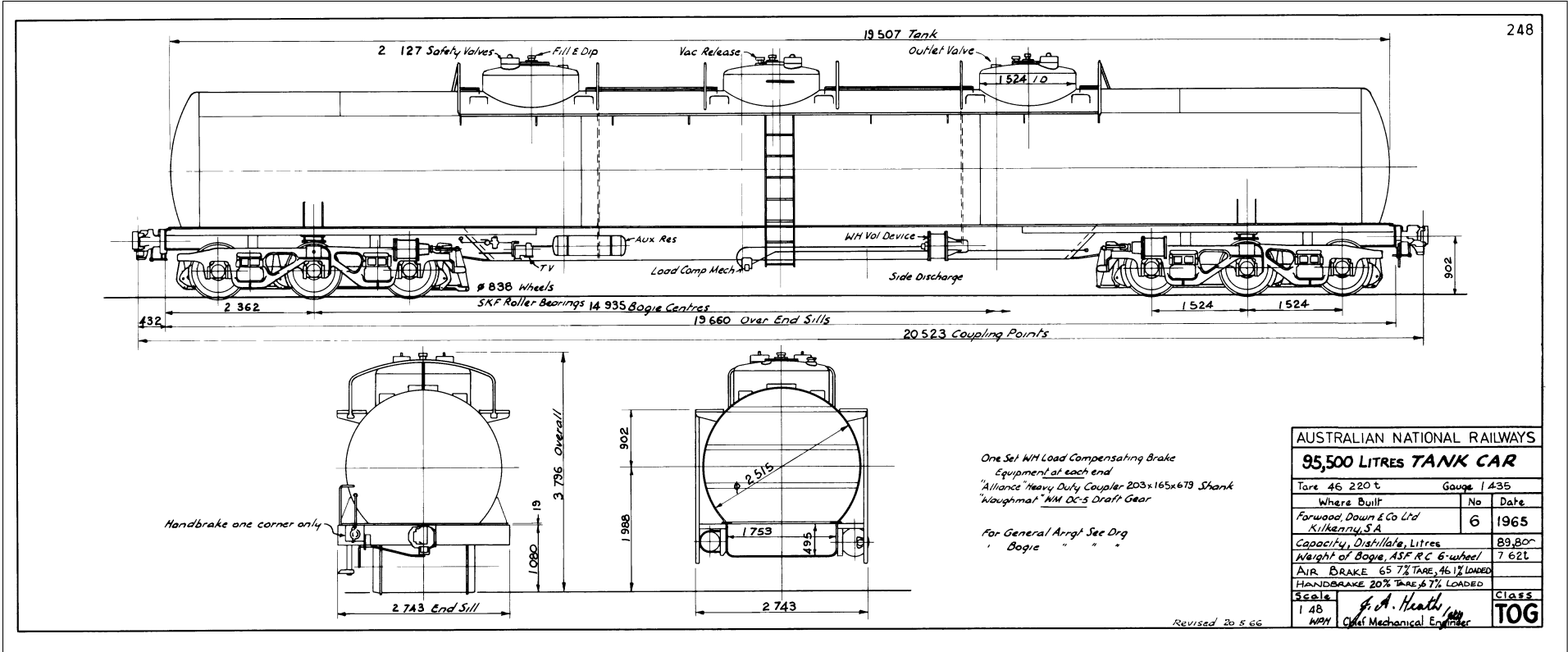


27.4 TOD 50 050LTank Wagon



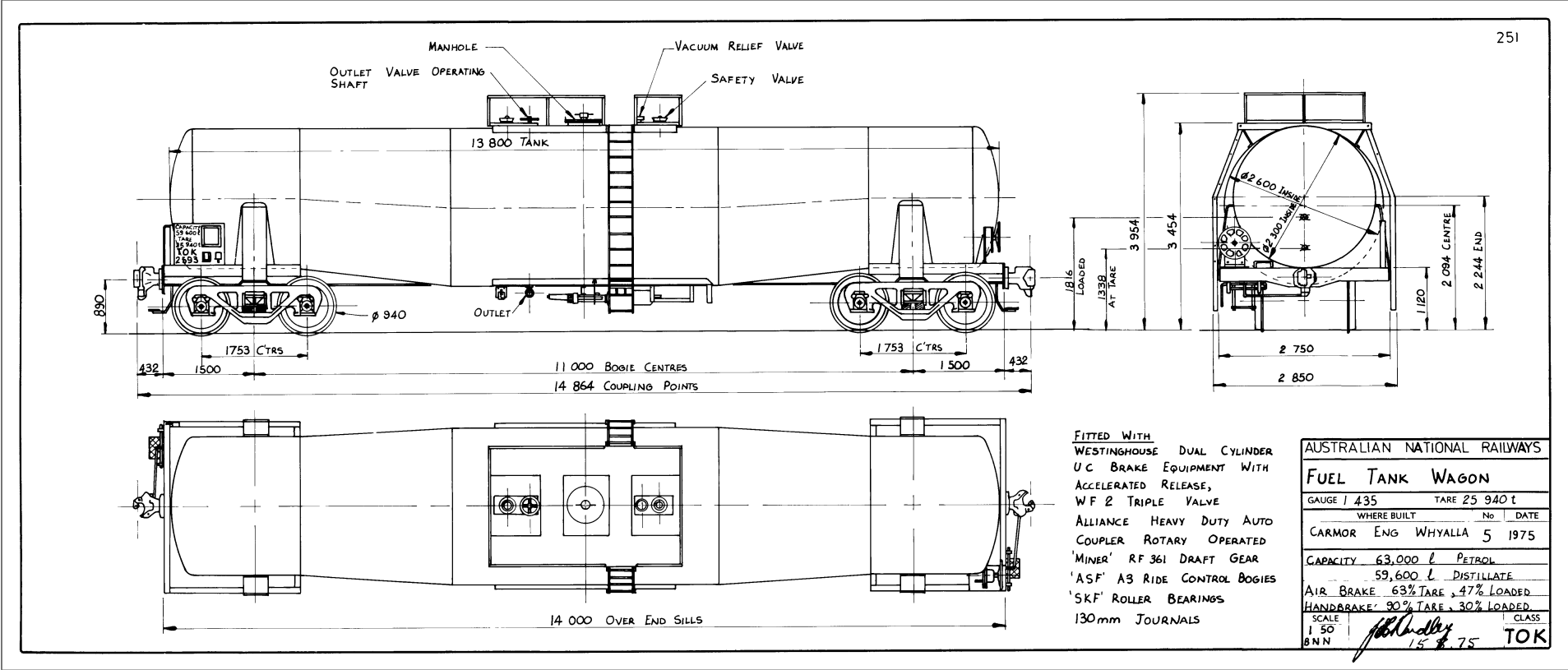
PlanId: NS245

27.5 TOG 95 500L Tank Car



PlanId: NS248

27.6 TOK Fuel Tank Wagon



PlanId: NS251



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CHAPTER

28

WATER TANK WAGON

28.1	TF 10.97m Water Tank Wagon	219
28.2	TG 35ft Water Tank Wagon	220
28.3	TK 50 050L tank Wagon	221
28.4	TL Water Tank Wagon	222
28.5	TN Water Tank Wagon	223
28.6	T Water Tank Wagon	224

GENERAL

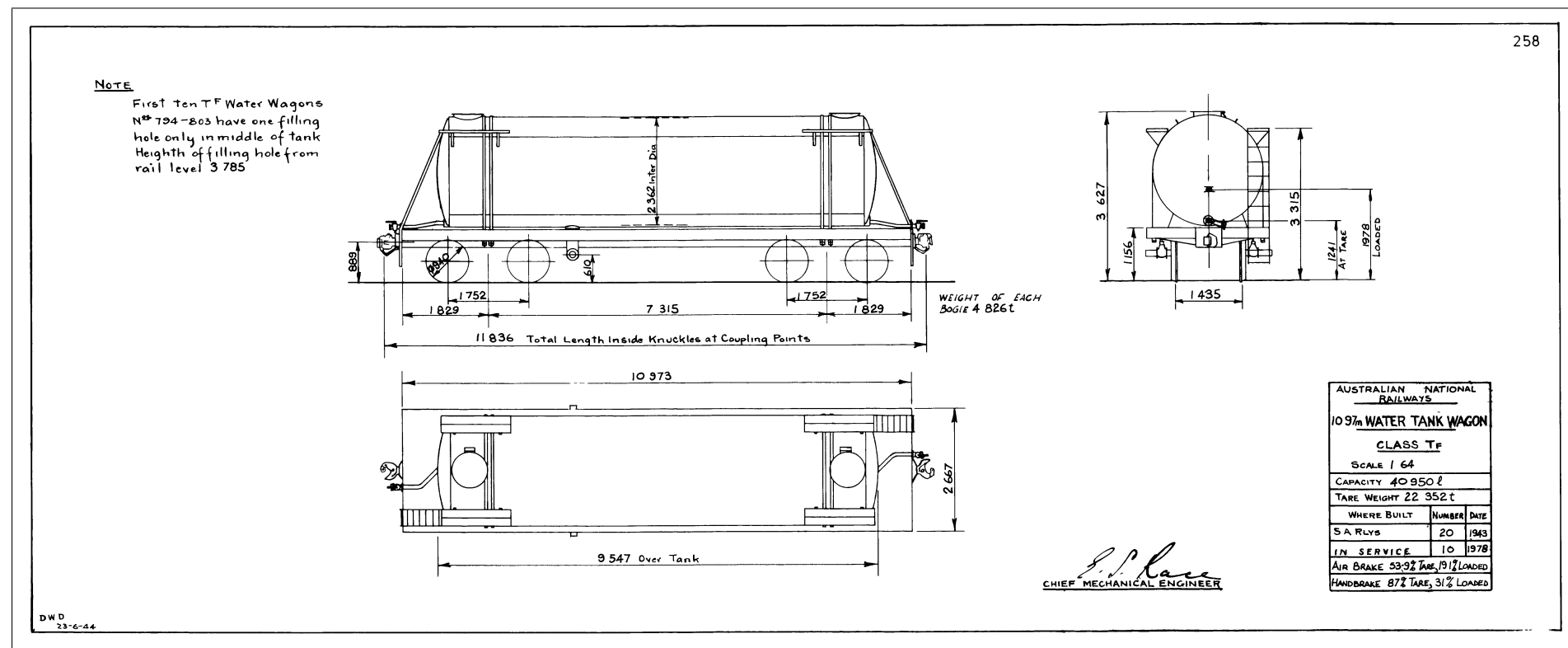
Diesel Engine General Motors EMD Type 161-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 23,403 kg
" " " Engine & Generator 21,364 kg
" " " 227 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

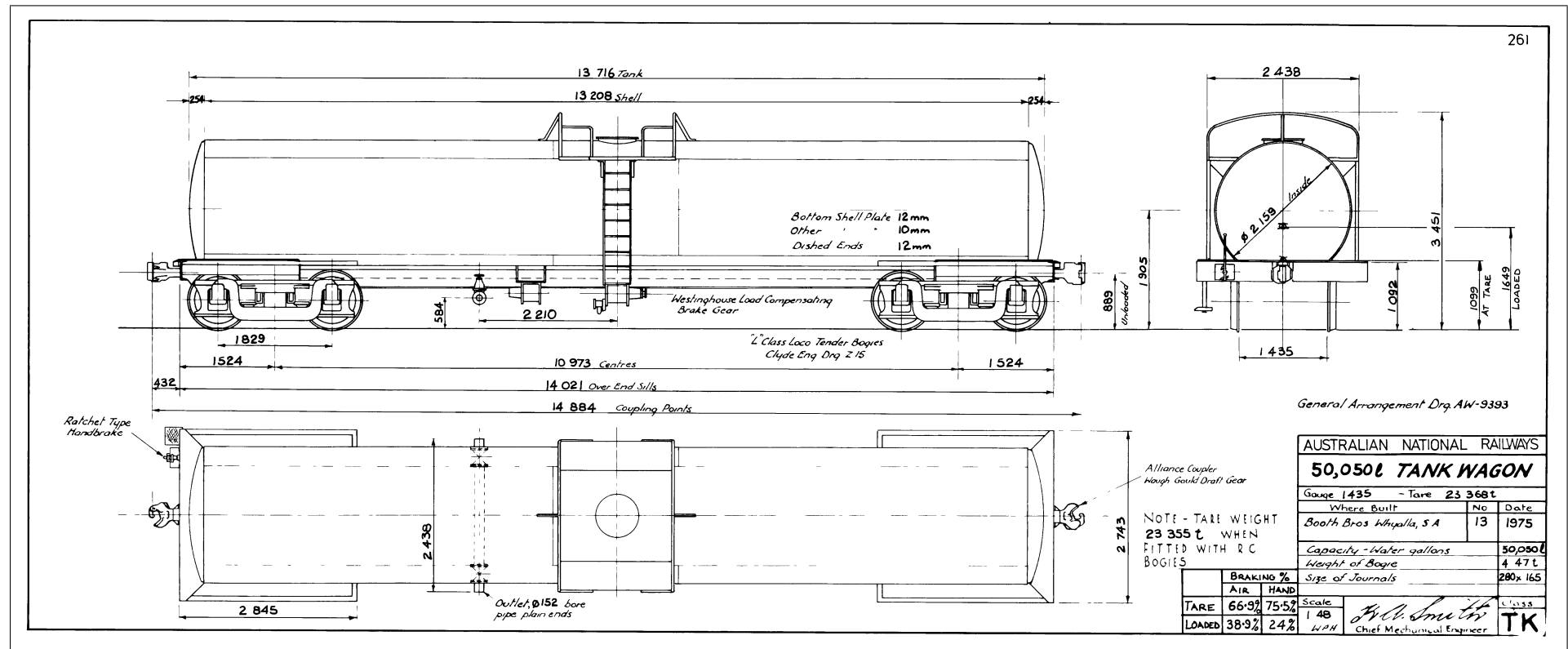


28.1 TF 10.97m Water Tank Wagon



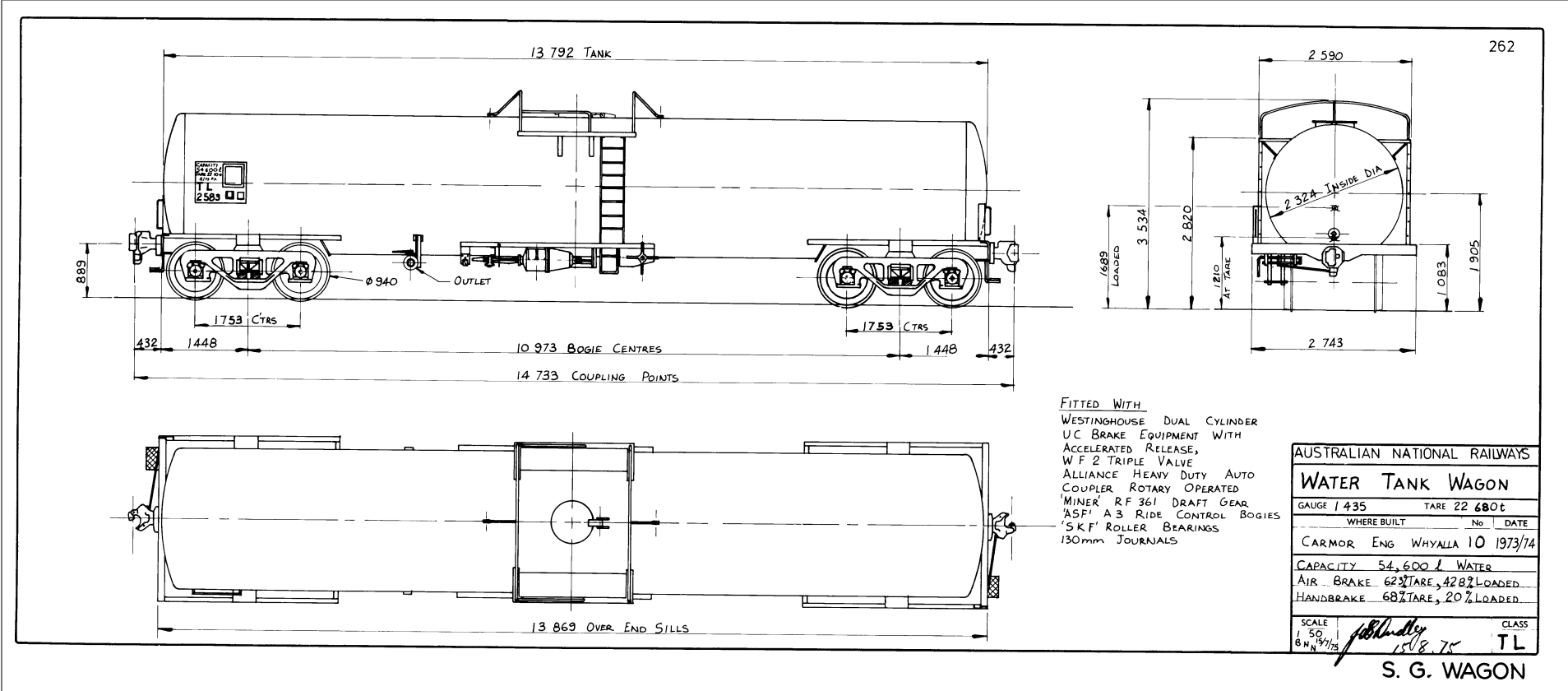
PlanId: NS258

28.3 TK 50 050L tank Wagon



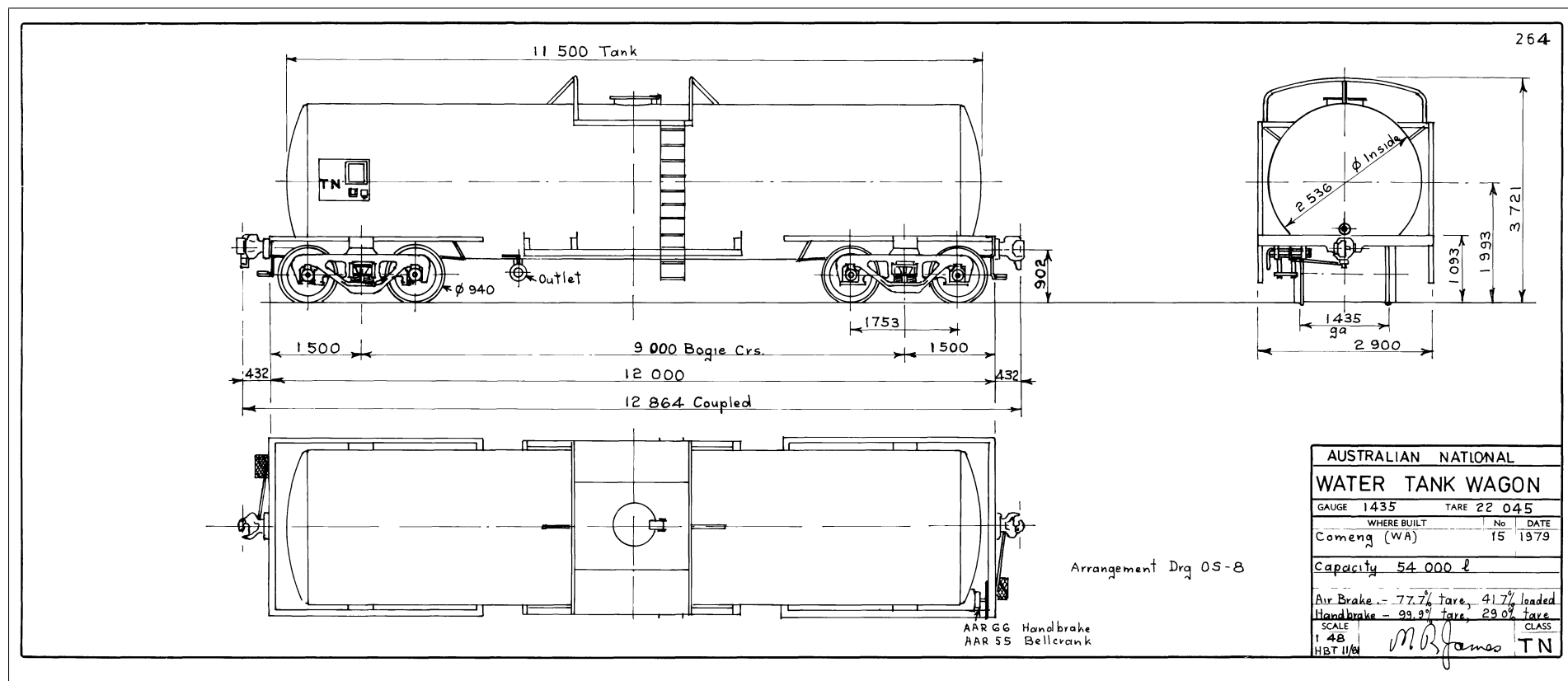
PlanId: NS261

28.4 TL Water Tank Wagon



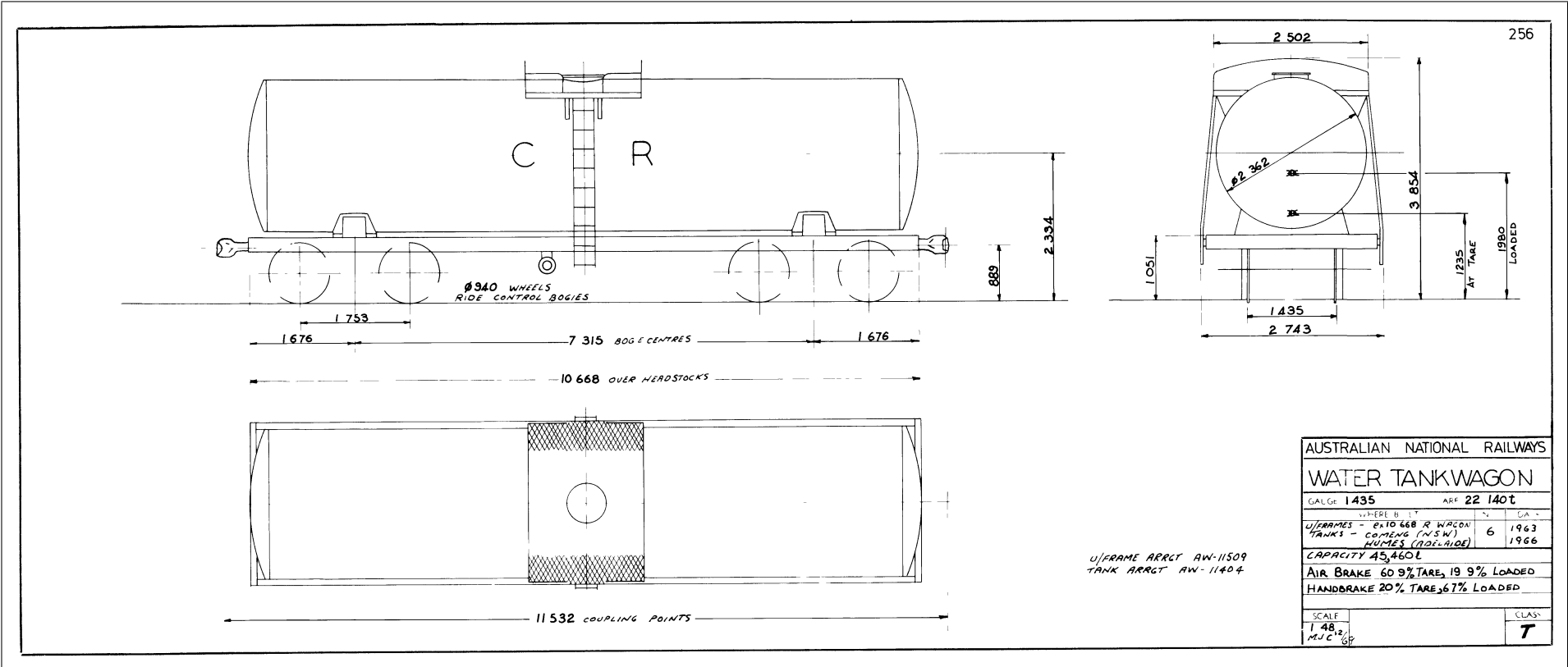
PlanId: NS262

28.5 TN Water Tank Wagon



PlanId: NS264

28.6 T Water Tank Wagon



PlanId: NS256



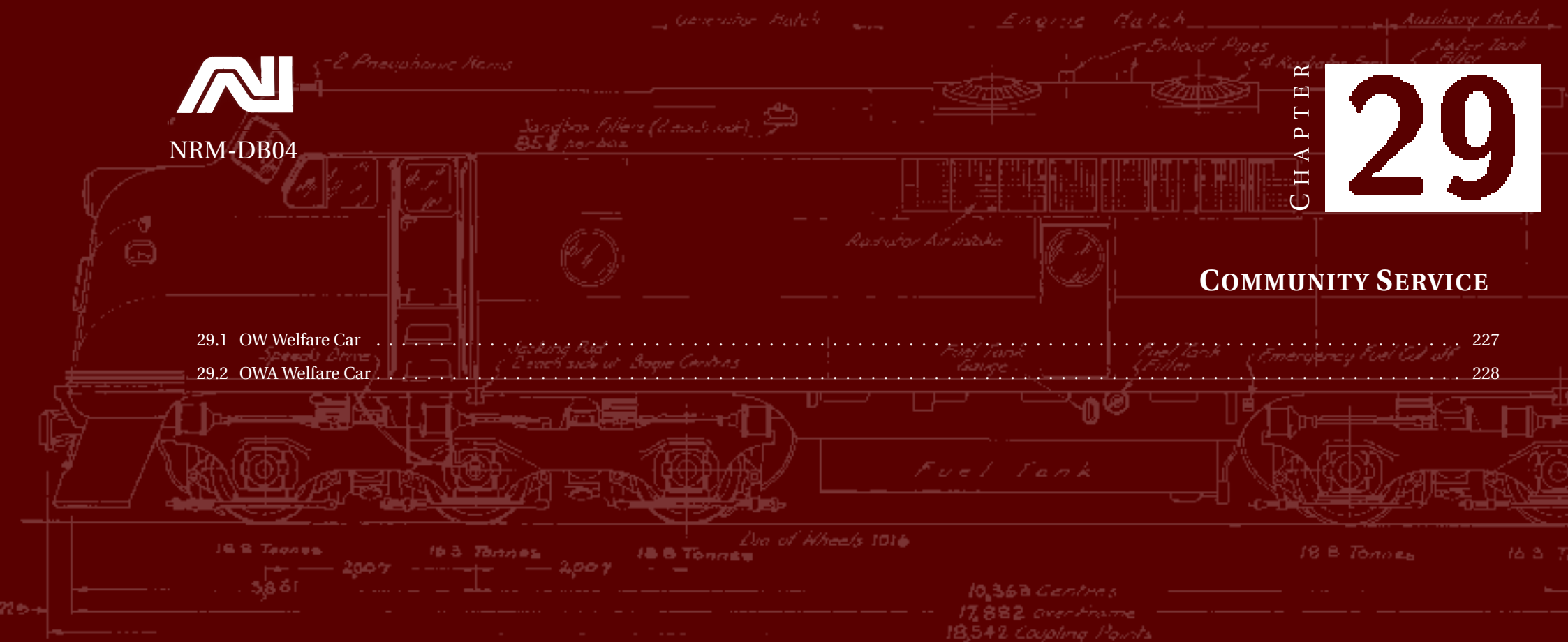
NRM-DB04

CHAPTER

29

COMMUNITY SERVICE

29.1 OW Welfare Car	227
29.2 OWA Welfare Car	228



GENERAL

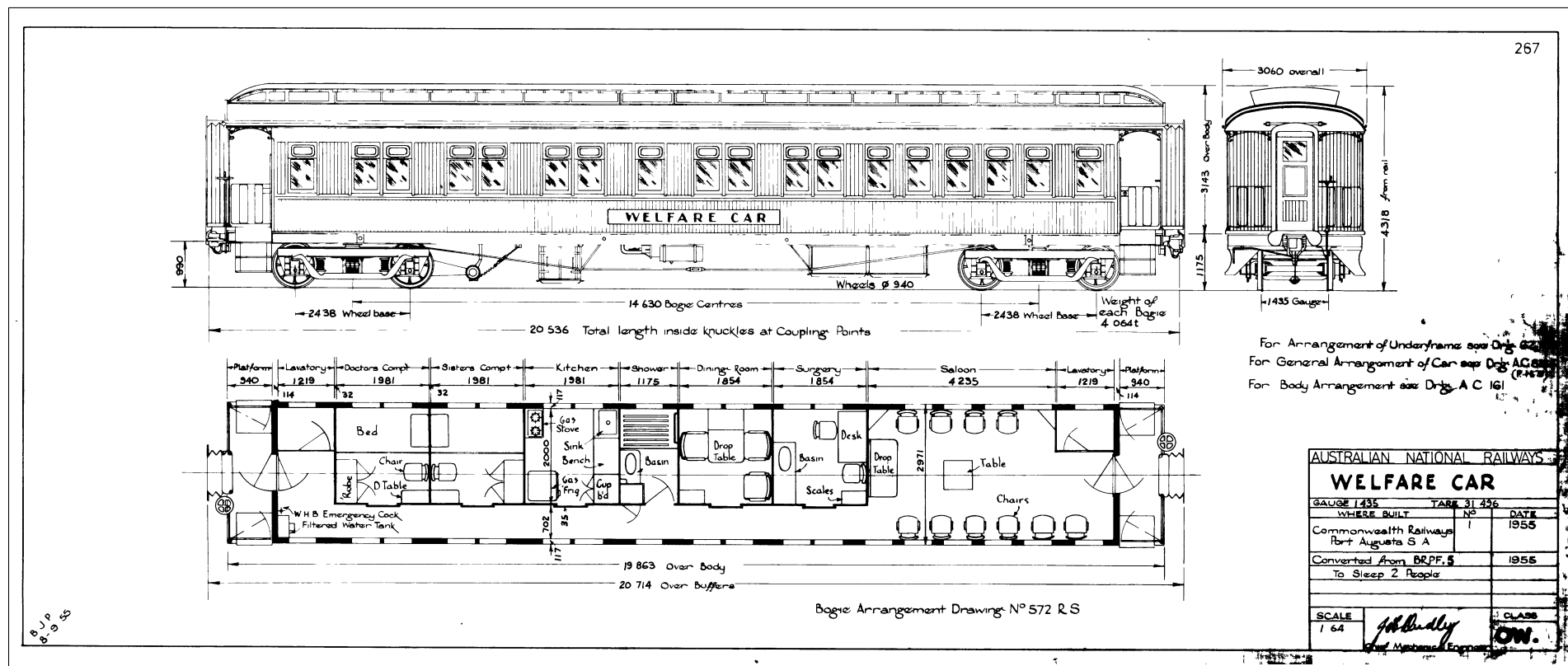
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 5.7 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 225 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

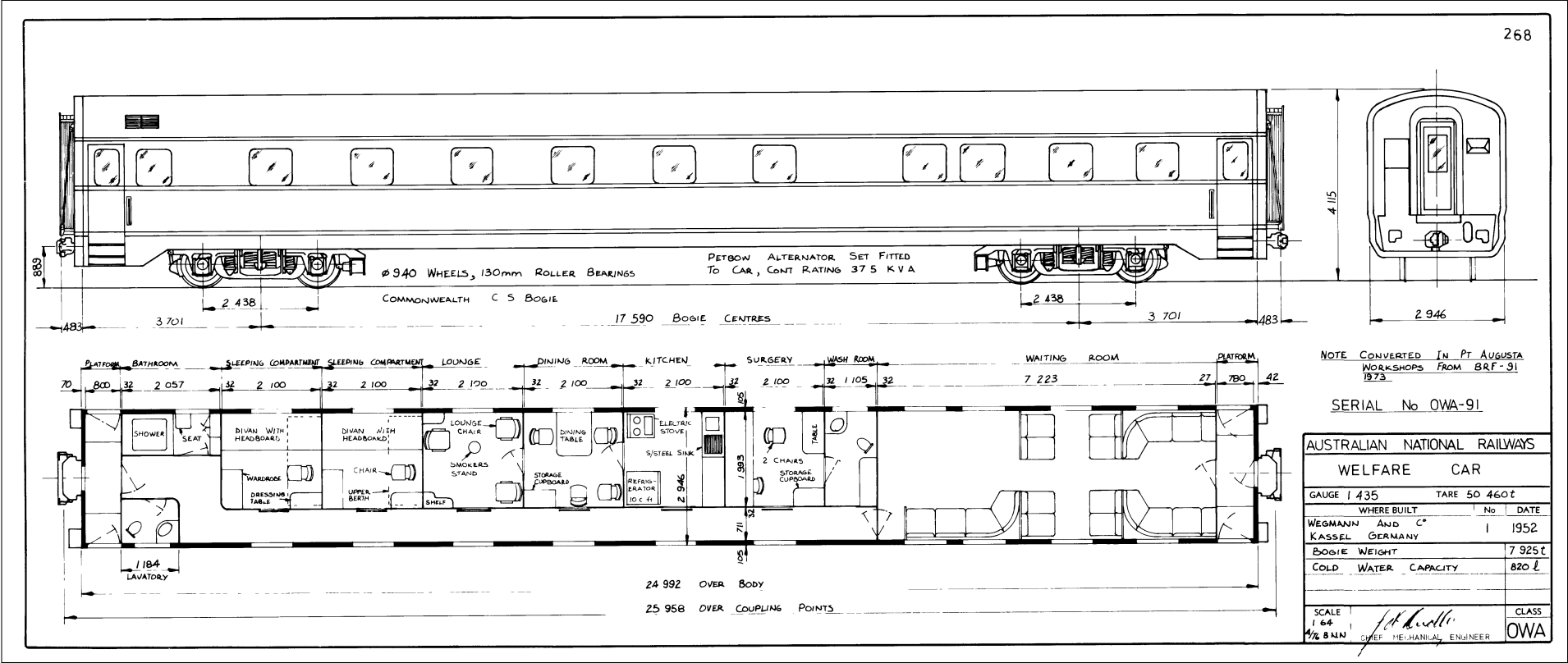


29.1 OW Welfare Car



PlanId: NS267

29.2 OWA Welfare Car



PlanId: NS268



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CHAPTER

30

EMPLOYEES VANS

30.1	E 35ft 6in Employees Van	231
30.2	EA Employees Van	232
30.3	ED Employees Car	233
30.4	EE Employees Van	234
30.5	EF Work Van	235
30.6	EI Officers Inspection Car	236

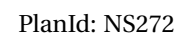
GENERAL

Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion - 184 kN
" " " Continuous - 132 kN
Four (4) Traction Motors - 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

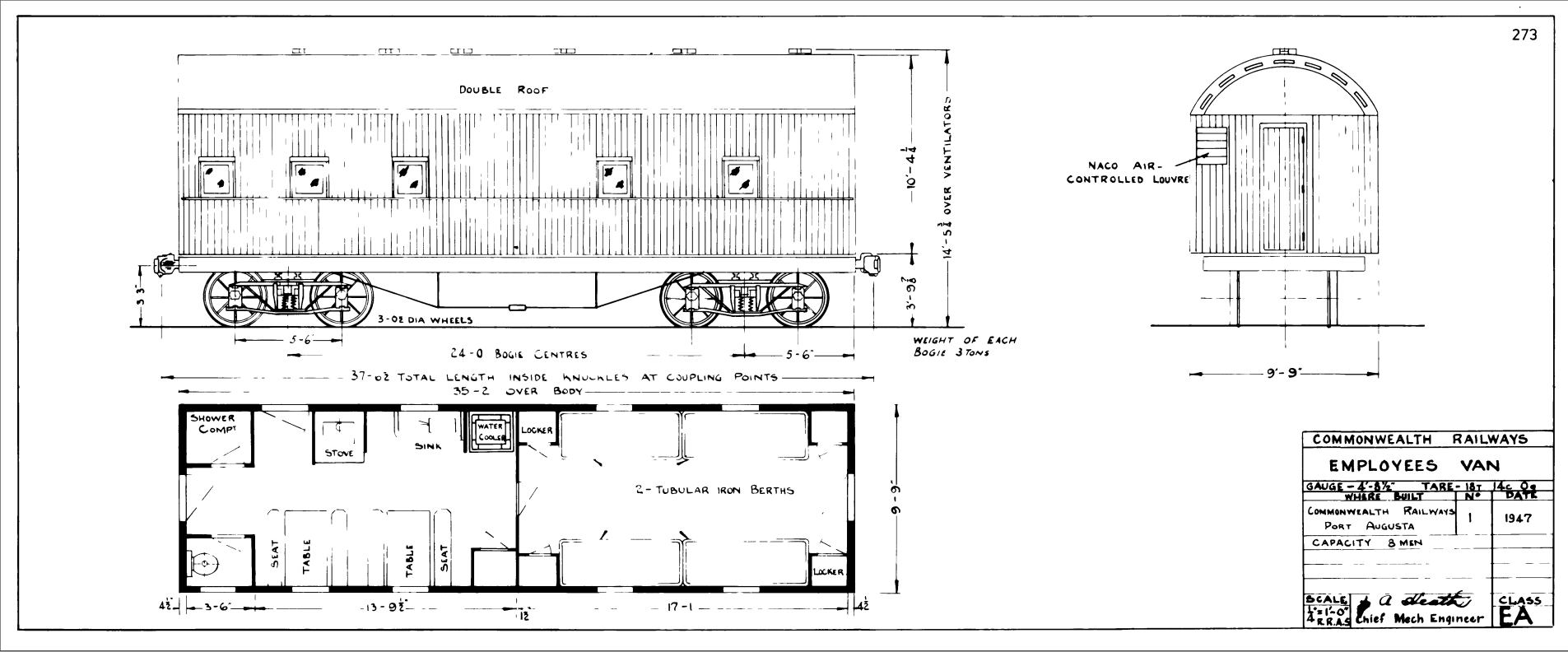
SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 229 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



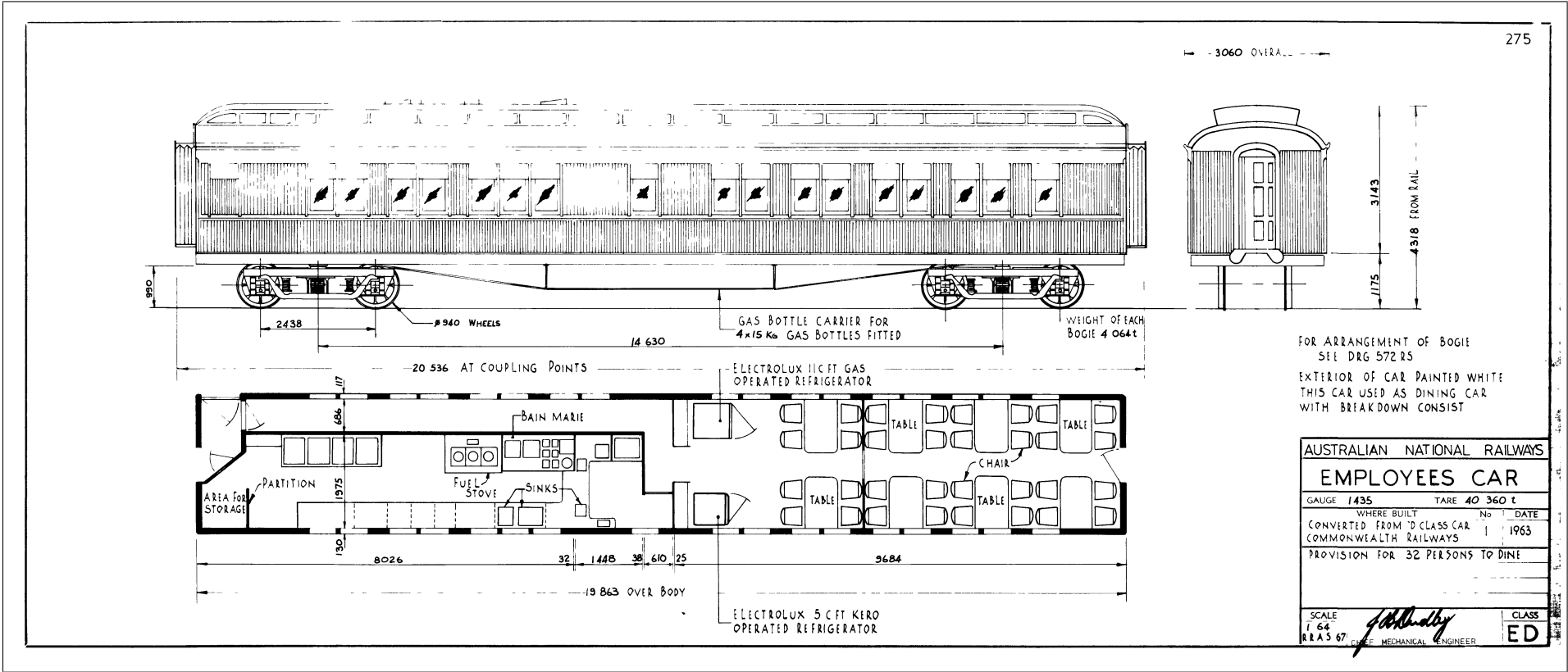


30.2 EA Employees Van



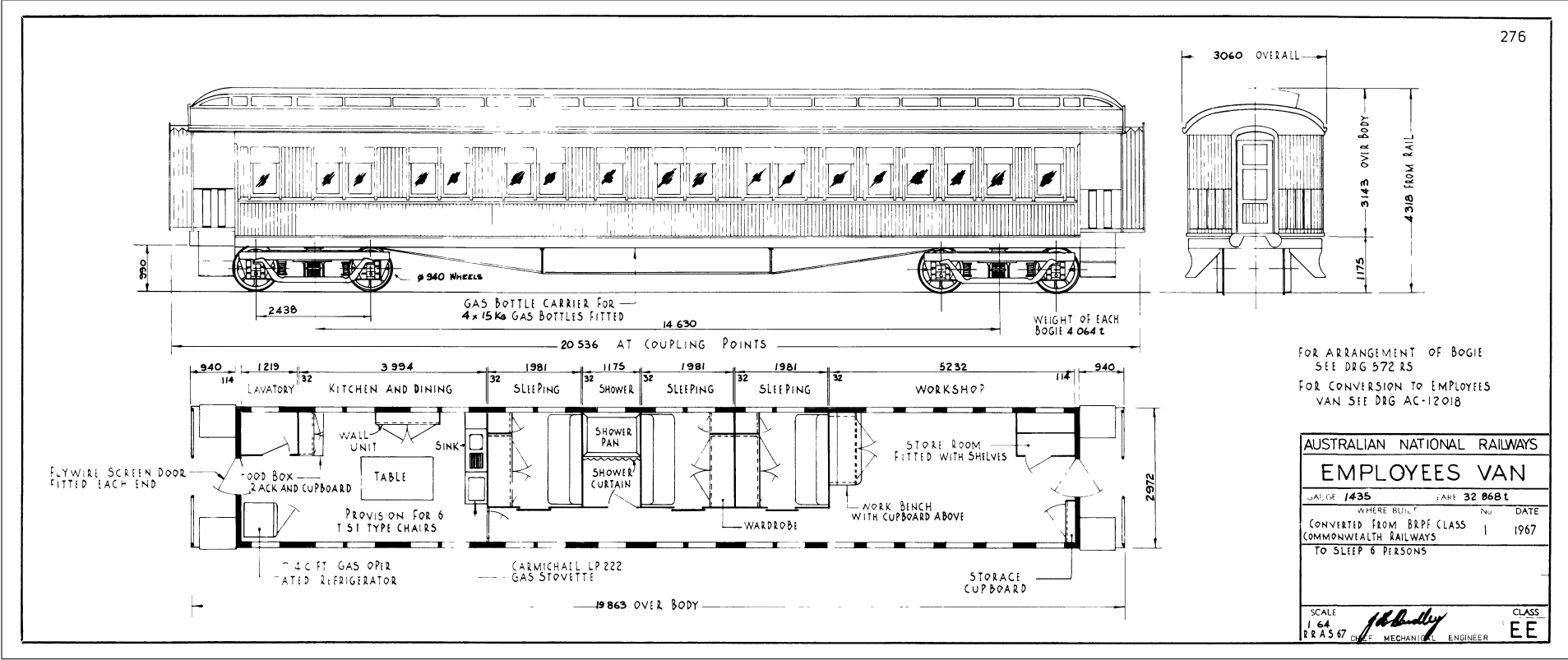
PlanId: NS273

30.3 ED Employees Car



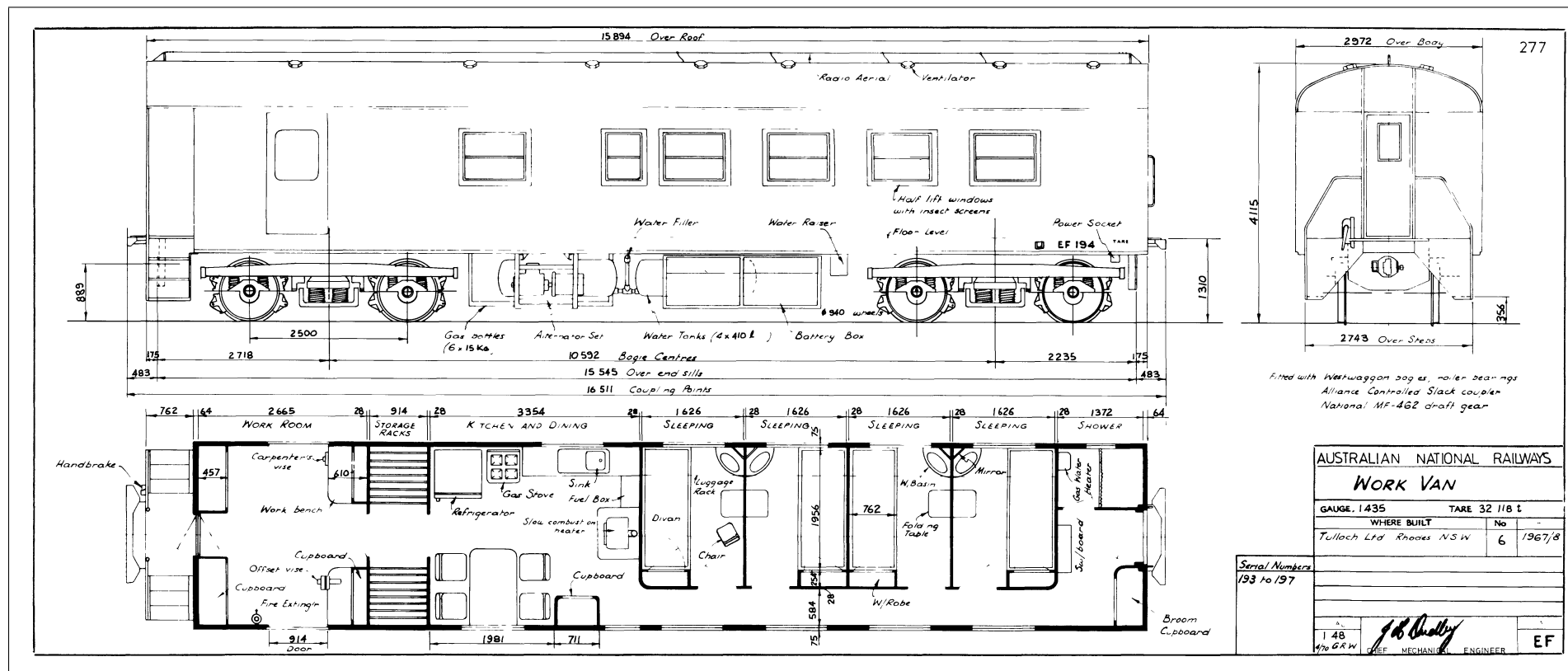
PlanId: NS275

30.4 EE Employees Van



PlanId: NS276

30.5 EF Work Van



PlanId: NS277



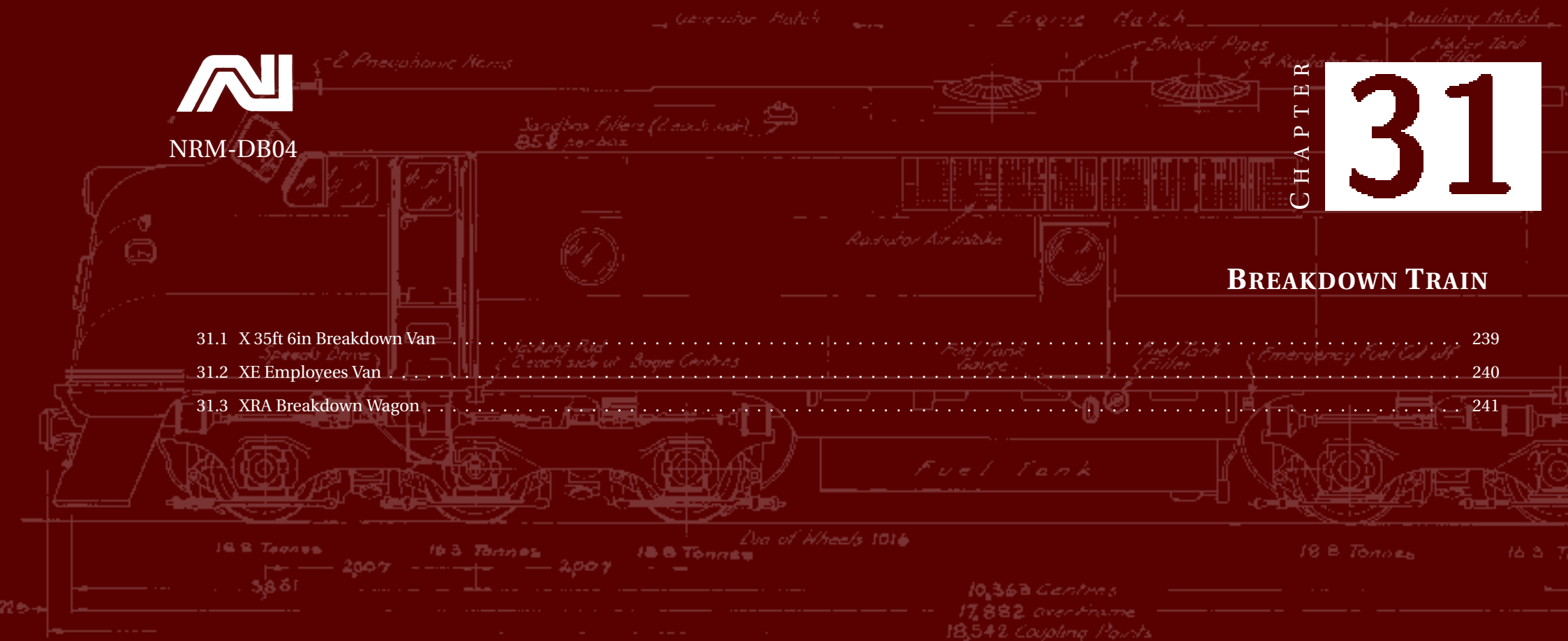
NRM-DB04

CHAPTER

31

BREAKDOWN TRAIN

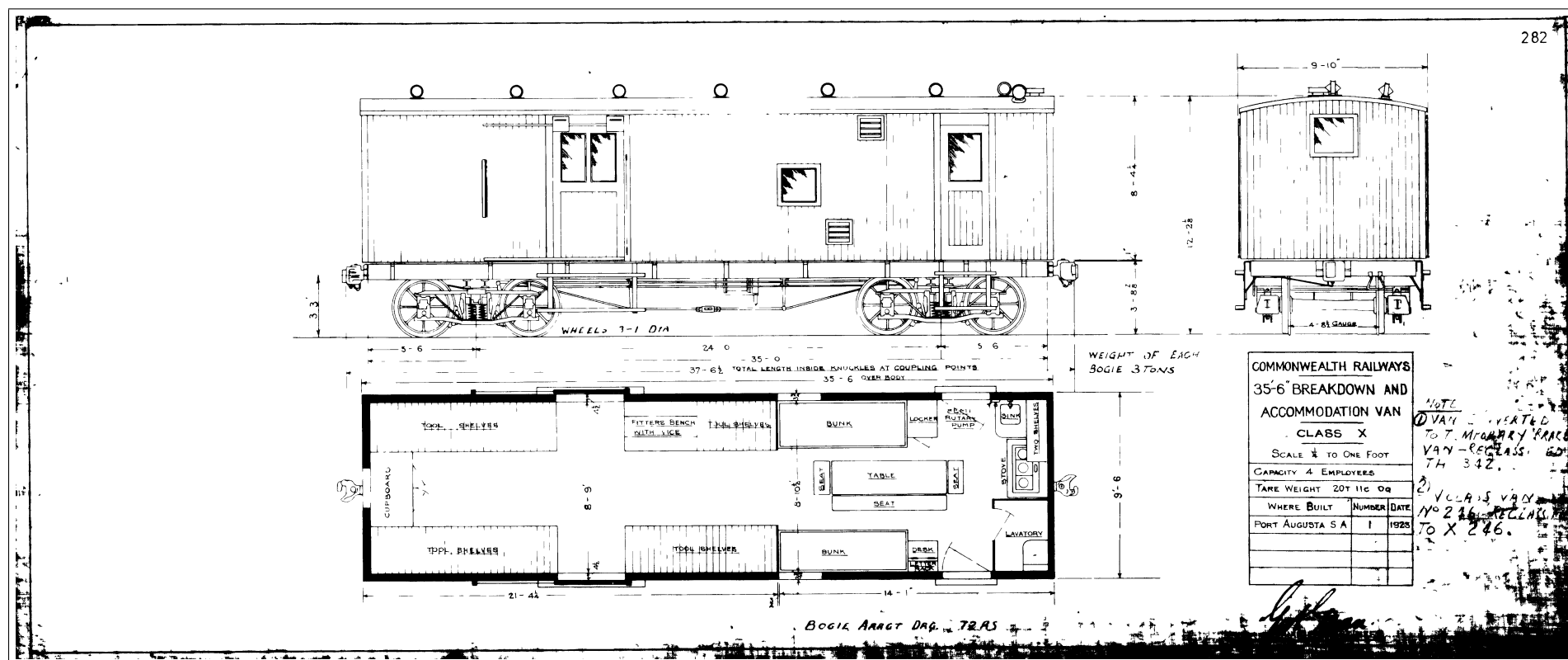
31.1 X 35ft 6in Breakdown Van	239
31.2 XE Employees Van	240
31.3 XRA Breakdown Wagon	241



GENERAL		SPECIFICATION	
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke	Fuel Oil Capacity	6,825 litres (approx wt = 5.7 Tonnes)
Engine Speed	275-800 RPM	Lubricating Oil Capacity	730 litres
Generator	Model D12 converts 1120 kW for Traction (D.C.)	Cooling Water Capacity	842 litres
Alternator	Model D14 for Auxiliaries (A.C.)	Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Max Tractive Effort	Starting, 25% adhesion = 184 kN	Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T fuel)
"	Continuous = 132 kN	" One Bogie Complete	23,403 kg
Four (4) Traction Motors	= 8 Driving Wheels	" Engine & Generator	21,364 kg
Gear Ratio	58-19	237 Driving Wheels	75 Tonnes
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h	Draft Gear	Knock Friction Type PA, Static Cap 181,818 kg

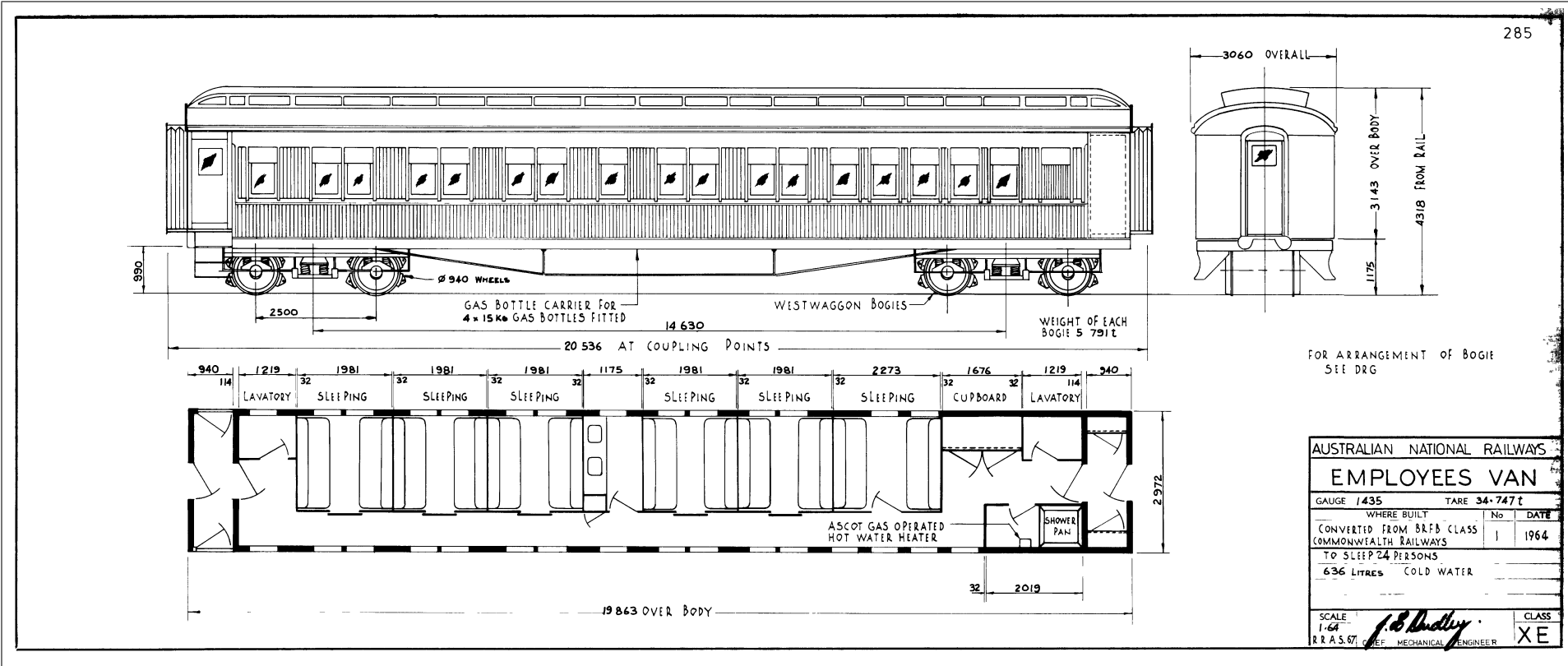


31.1 X 35ft 6in Breakdown Van



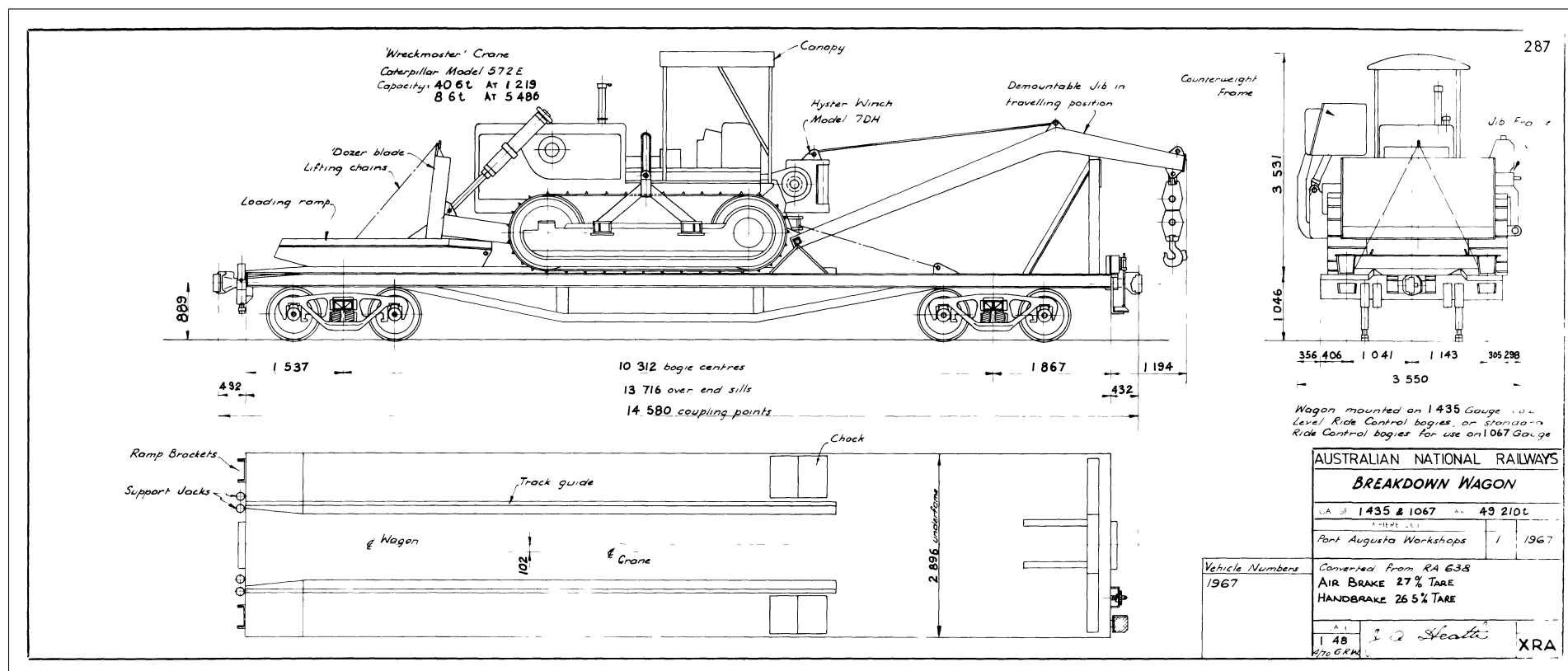
PlanId: NS282

31.2 XE Employees Van



PlanId: NS285

31.3 XRA Breakdown Wagon



PlanId: NS287



NRM-DB04

CHAPTER

32

TEA AND SUGAR TRAIN

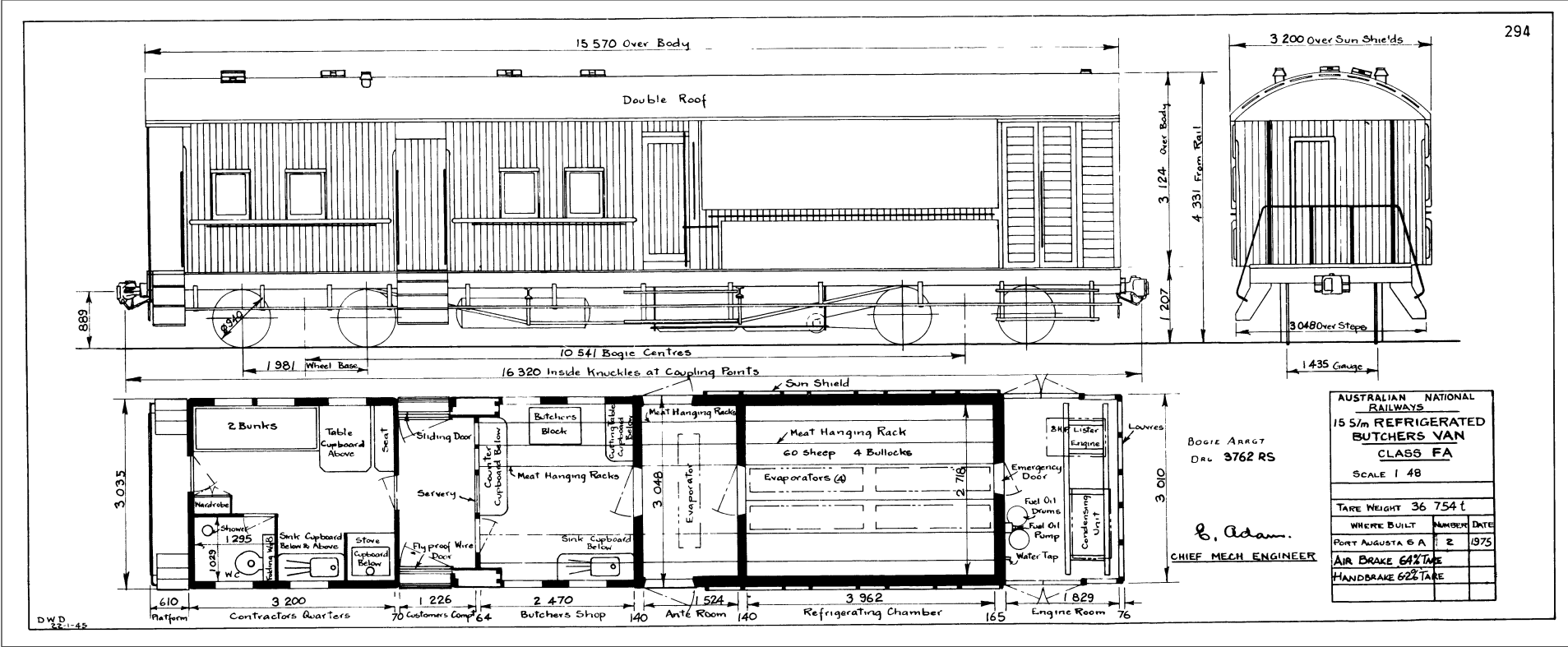
32.1 VPA Provision Stores Van	245
32.2 FA 15.57m Refrigerated Butchers Van	246
32.3 VPB Retail Stores Van	247

GENERAL		SPECIFICATION	
Diesel Engine	General Motors EMD Type 16-567B, Two Stroke	Fuel Oil Capacity	6,825 litres (approx wt = 57 Tonnes)
Engine Speed	275-800 RPM	Lubricating Oil Capacity	730 litres
Generator	Model D12 converts 1120 kW for Traction (D.C.)	Cooling Water Capacity	842 litres
Alternator	Model D14 for Auxiliaries (A.C.)	Fans	4 Radiator, 1 Engine Room, 4 Traction Motor
Max Tractive Effort	Starting, 25% adhesion = 184 kN	Weight of Locomotive Roadworthy	108 Tonnes (inc 3.6T Fuel)
"	Continuous = 132 kN	" One Bogie Complete	33,403 kg
Four (4) Traction Motors = 8 Driving Wheels		" Engine & Generator	21,364 kg
Gear Ratio = 58-19		243 Driving Wheels	75 Tonnes
Maximum Speed	143 km/h Min Speed at Cont Rating 24 km/h	Draft Gear	Knock Friction Type PA, Static Cap 181,818 kg



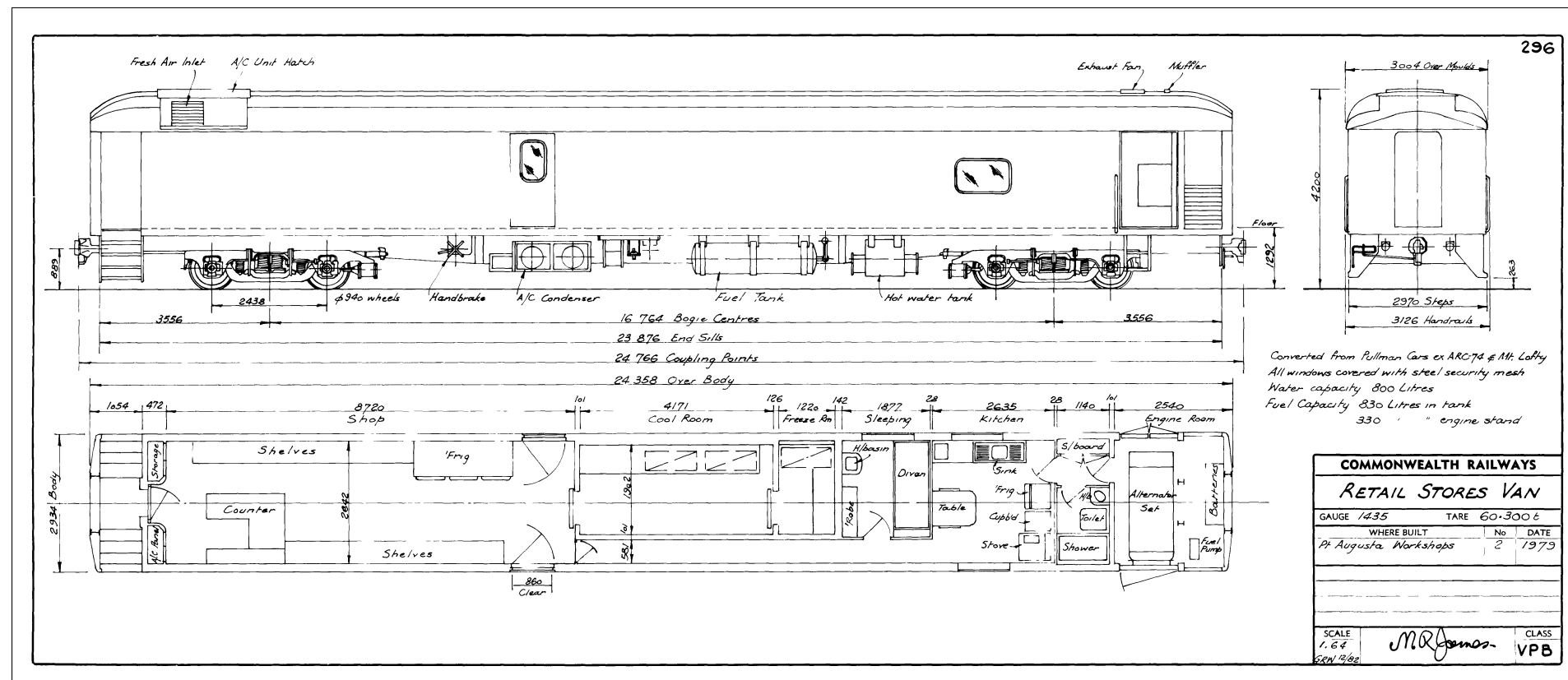


32.2 FA 15.57m Refrigerated Butchers Van



PlanId: NS294

32.3 VPB Retail Stores Van



PlanId: NS296



NRM-DB04

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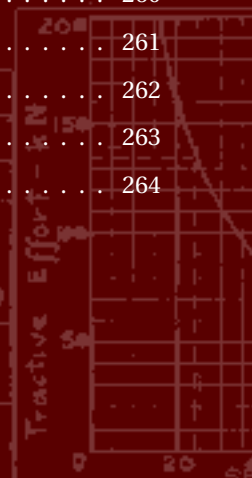
33

CONTAINERS

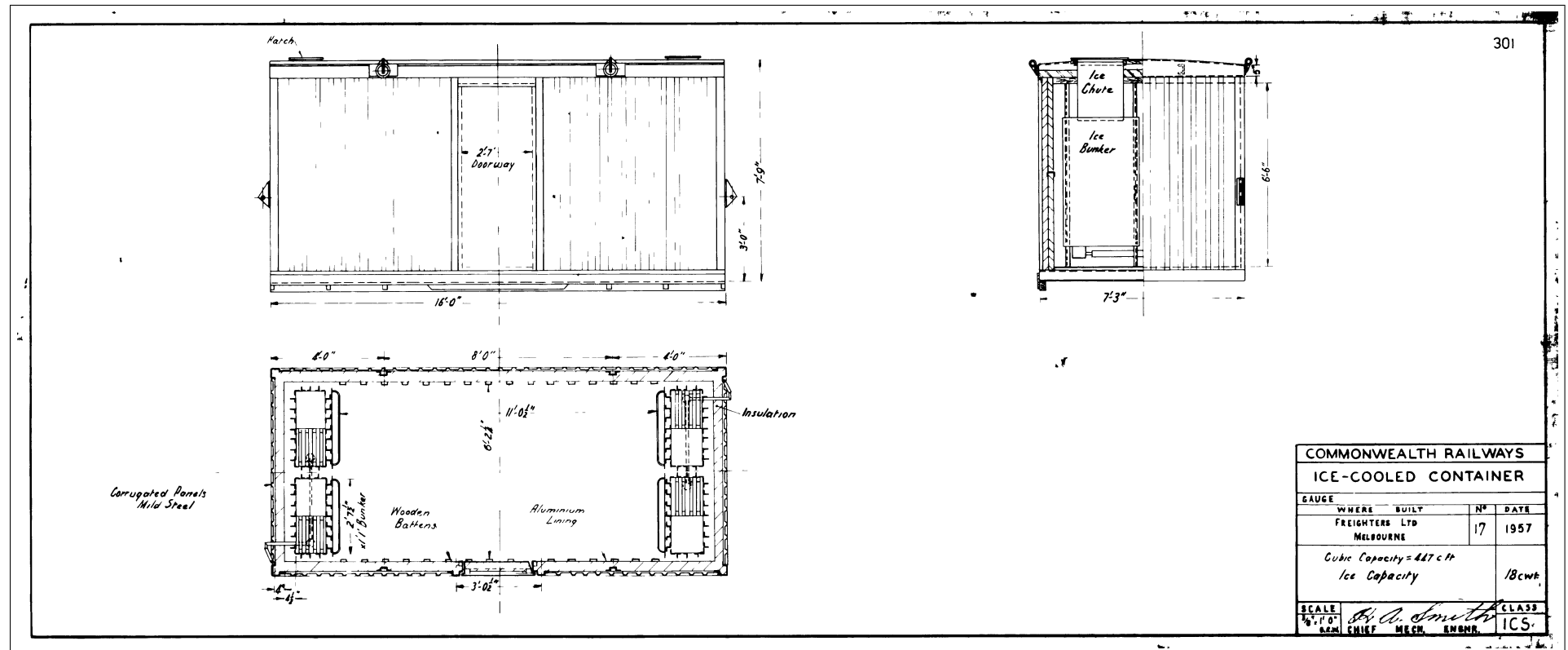
33.1 ICS Ice-Cooled Container	251
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33.4 ZC Dry Freight Container	254
33.5 ZD Dry Freight Container	255
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33.7 ZS 5.06m Dry Freight Container	257
33.8 ZSA Dry Freight Container	258
33.9 MRC Refrigerated Container	259
33.10 ZT Freight Tray	260
33.11 ZT Freight Tray	261
33.12 ZF Bag Cement Container	262

Diesel Engine
Engine Speed 735 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = **184 kN**
" " Continuous = **132 kN**
Four (4) Traction Motors - 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

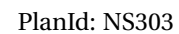
S.P.E.C.I.F.I.C.A.T.I.O.N.
Fuel Oil Capacity 6,825 litres (approx. wt. 57 Tonnes)
Lubricating Oil Capacity 739 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 36T fuel)
" One Bogie Complete 33,403 kg
" Engine & Generator 21,364 kg
" 249 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Static Cap 181,818 kg



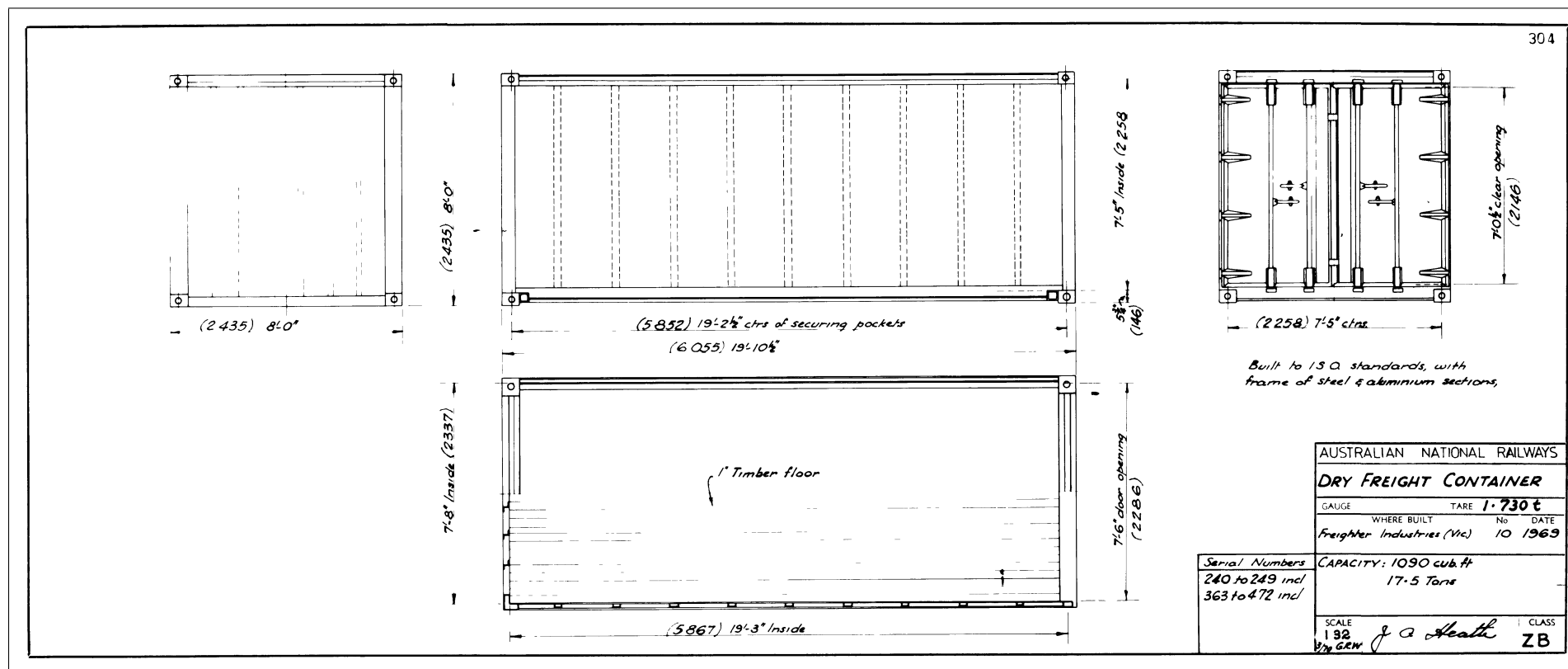
33.1 ICS Ice-Cooled Container



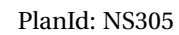
PlanId: NS301



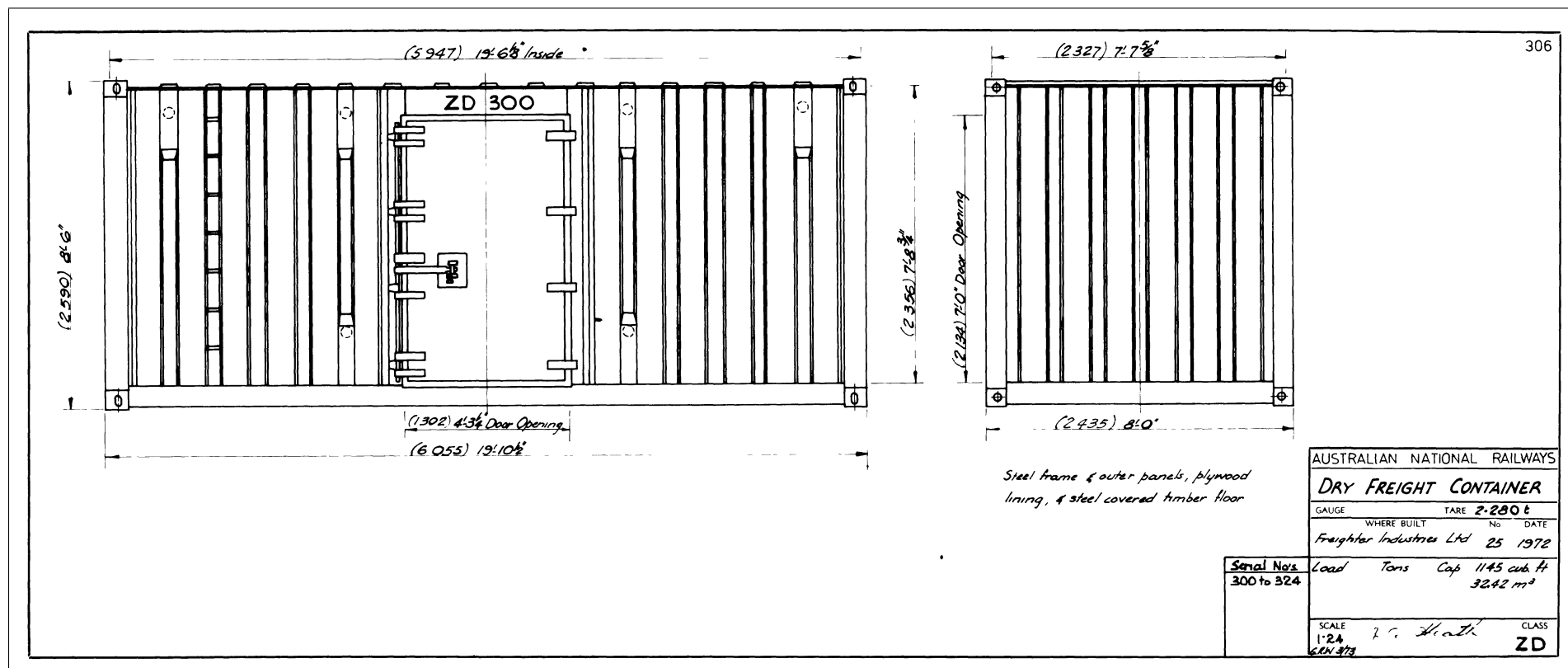
33.3 ZB Dry Freight Container



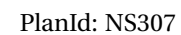
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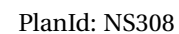


33.5 ZD Dry Freight Container

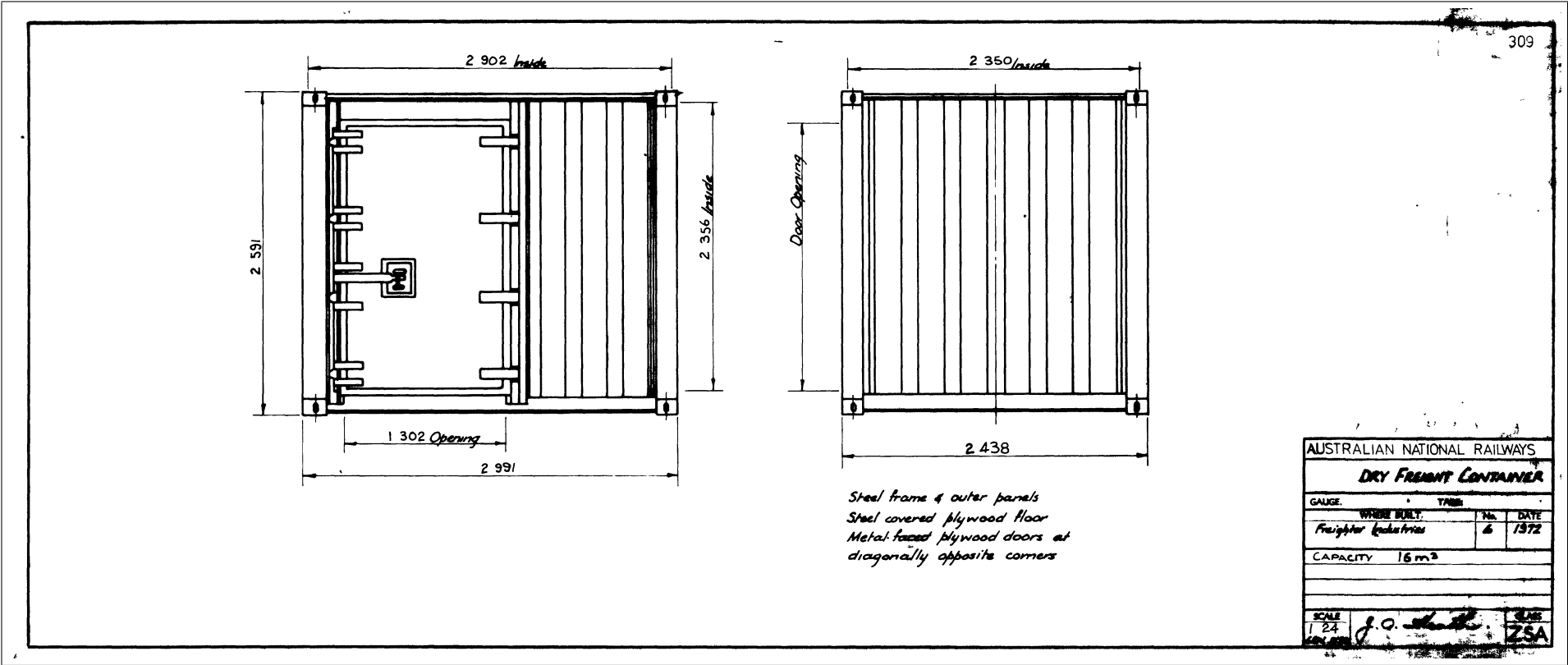


PlanId: NS306



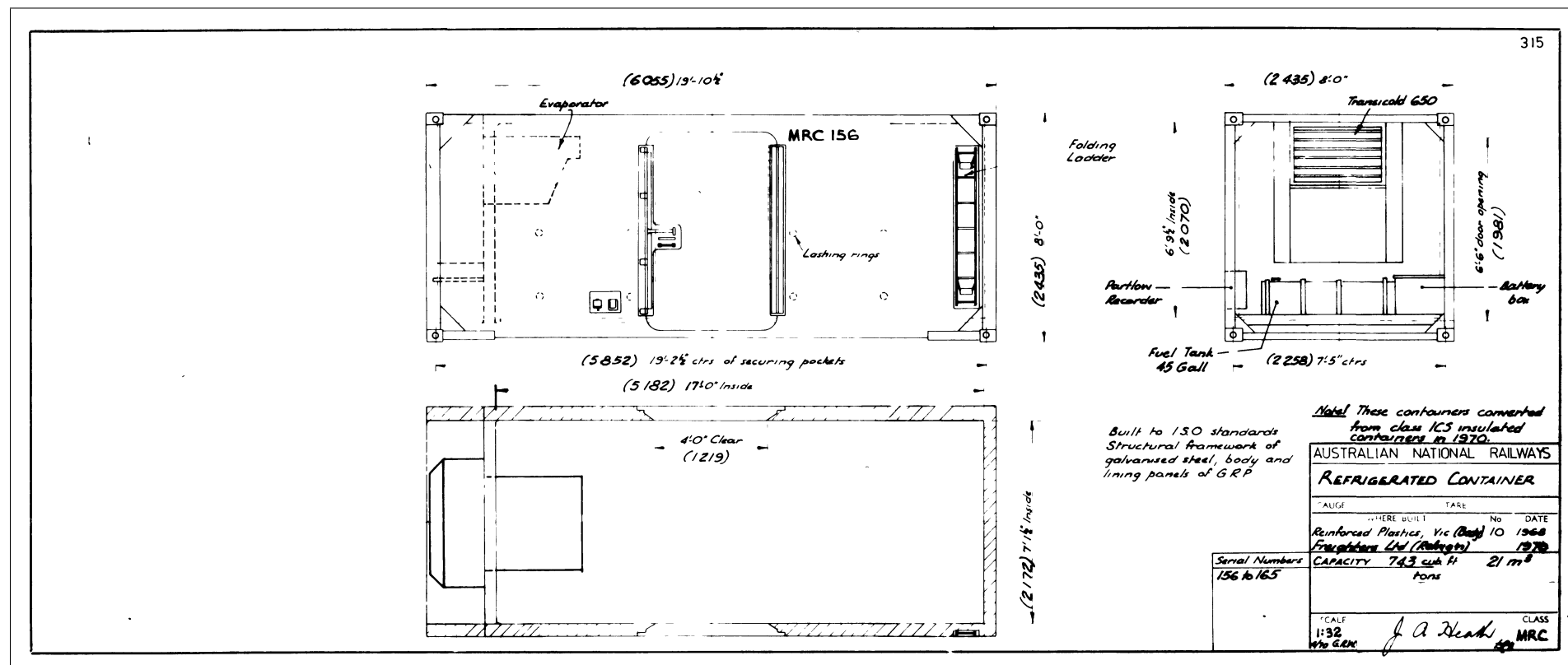


33.8 ZSA Dry Freight Container



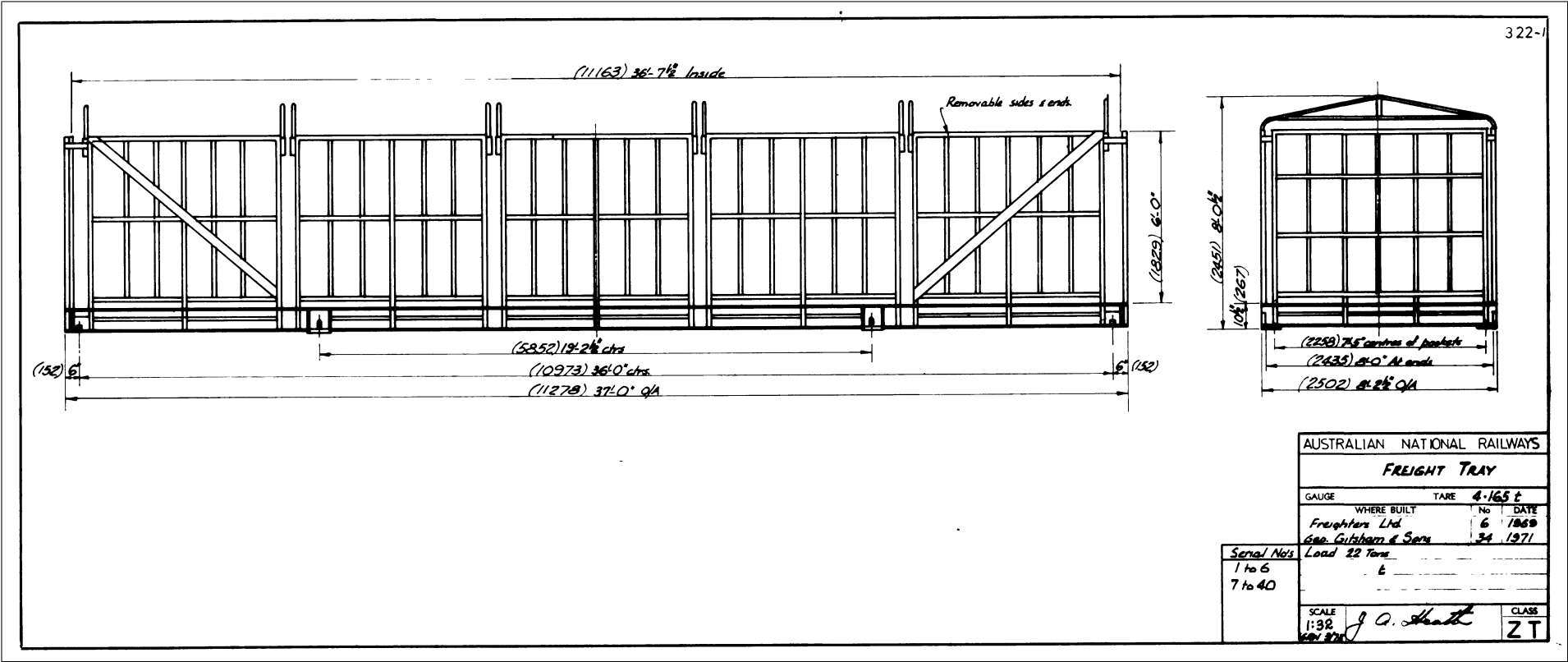
PlanId: NS309

33.9 MRC Refrigerated Container



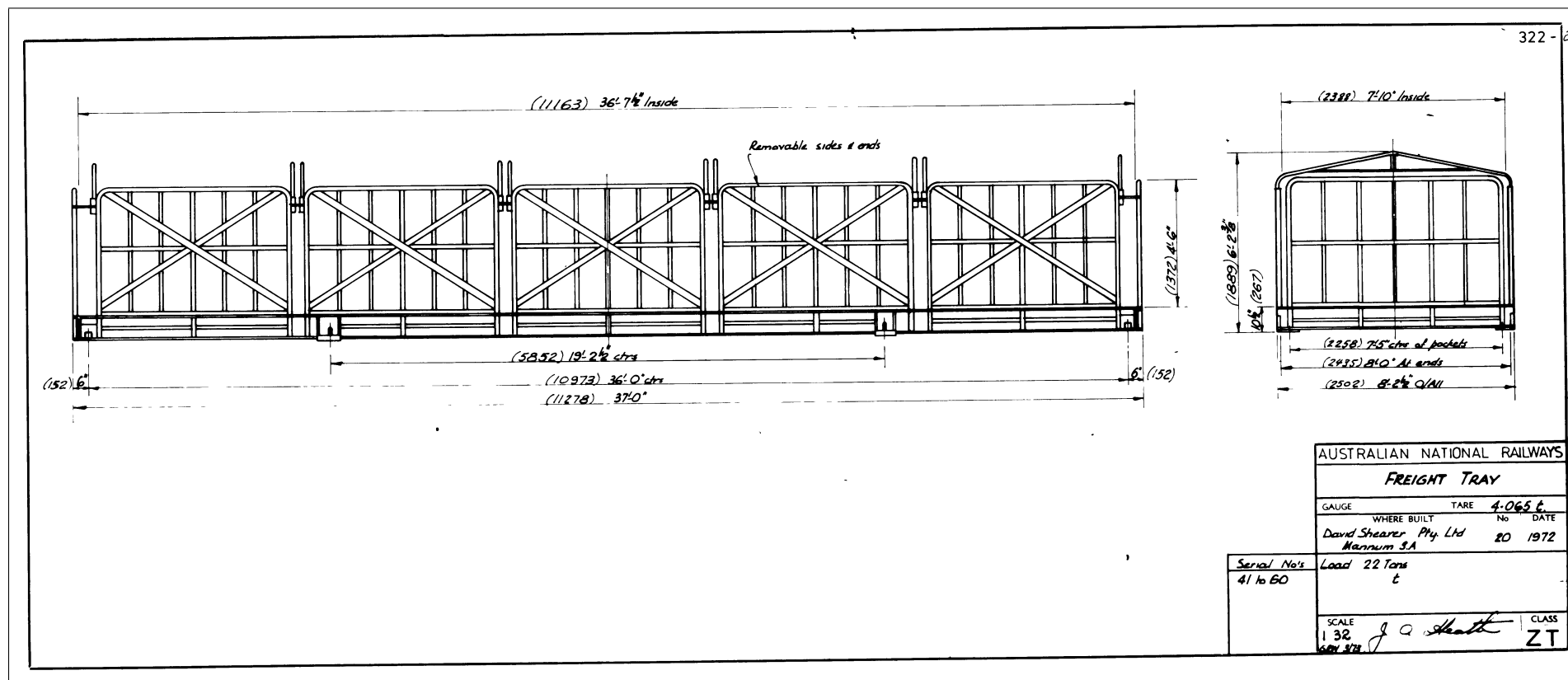
PlanId: NS315

33.10 ZT Freight Tray



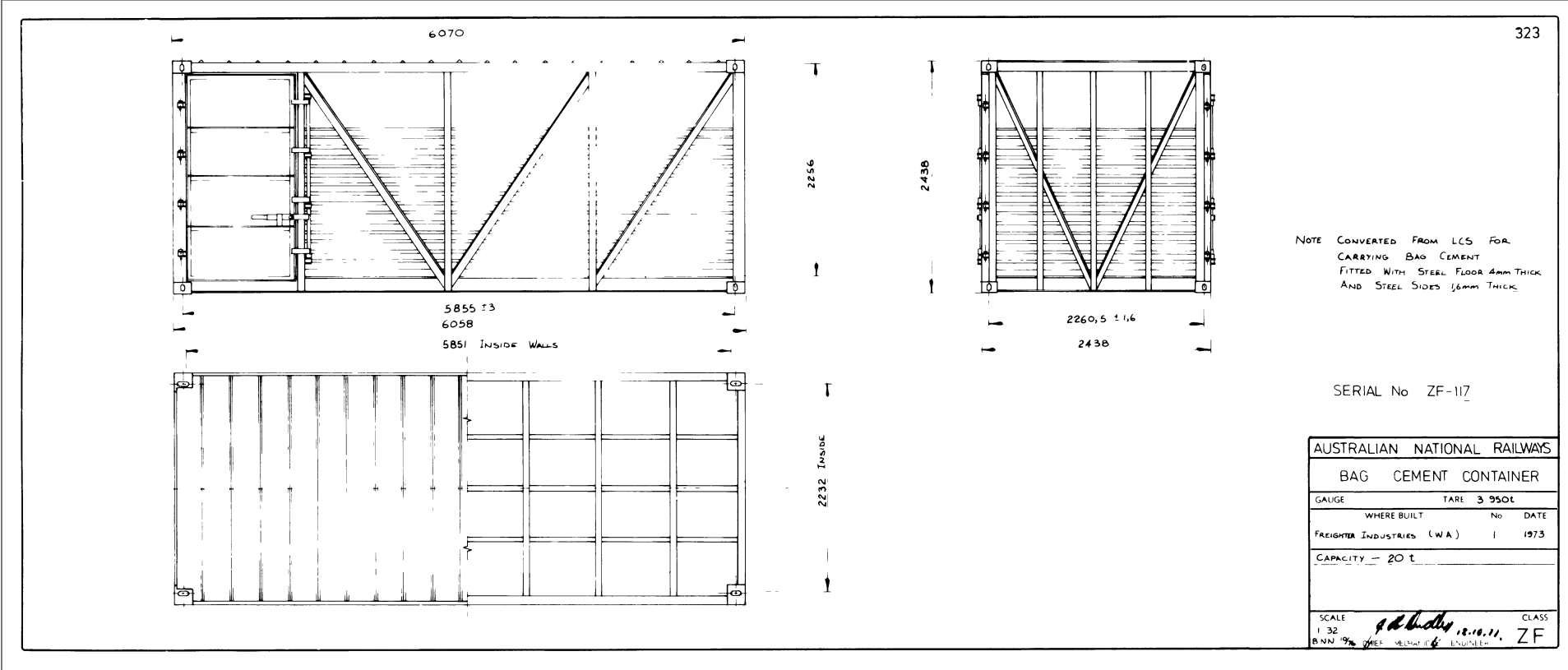
PlanId: NS322

33.11 ZT Freight Tray



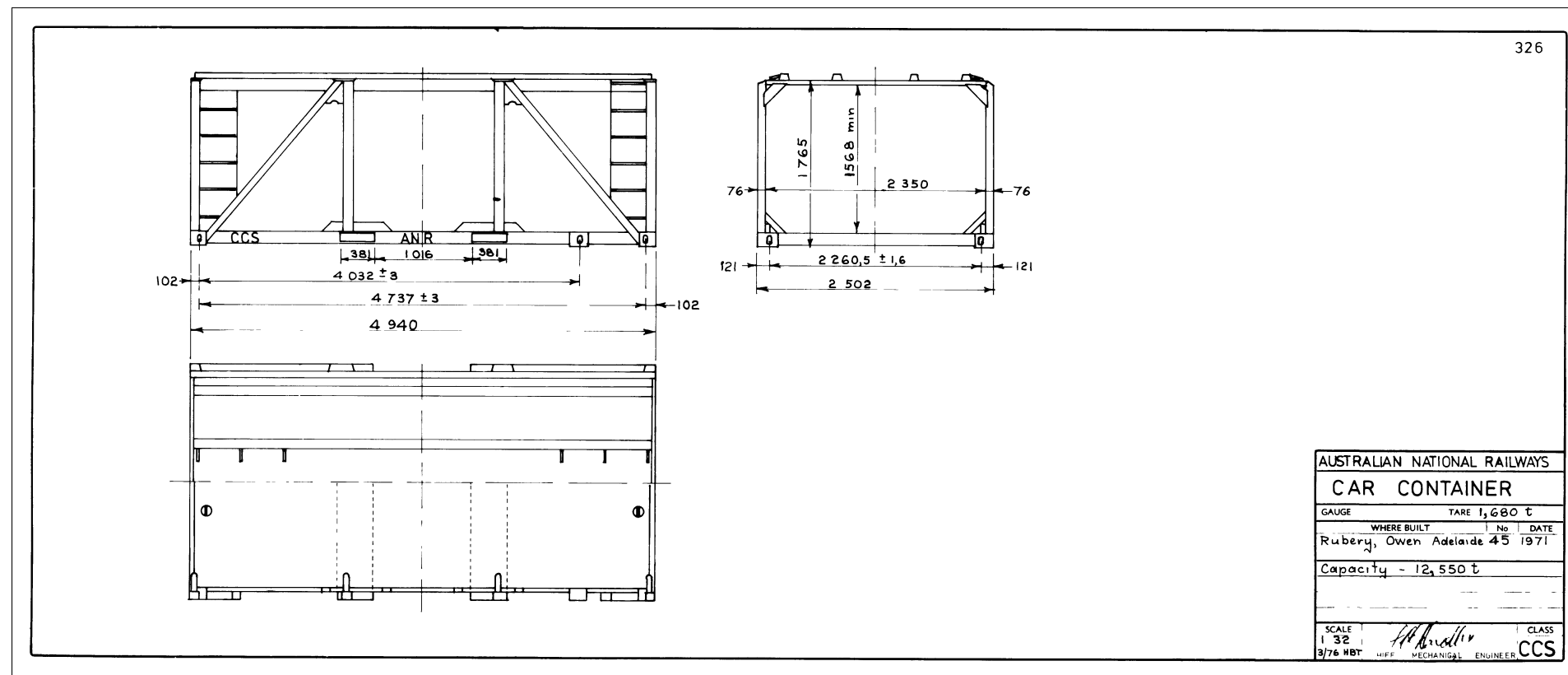
PlanId: NS322b

33.12 ZF Bag Cement Container



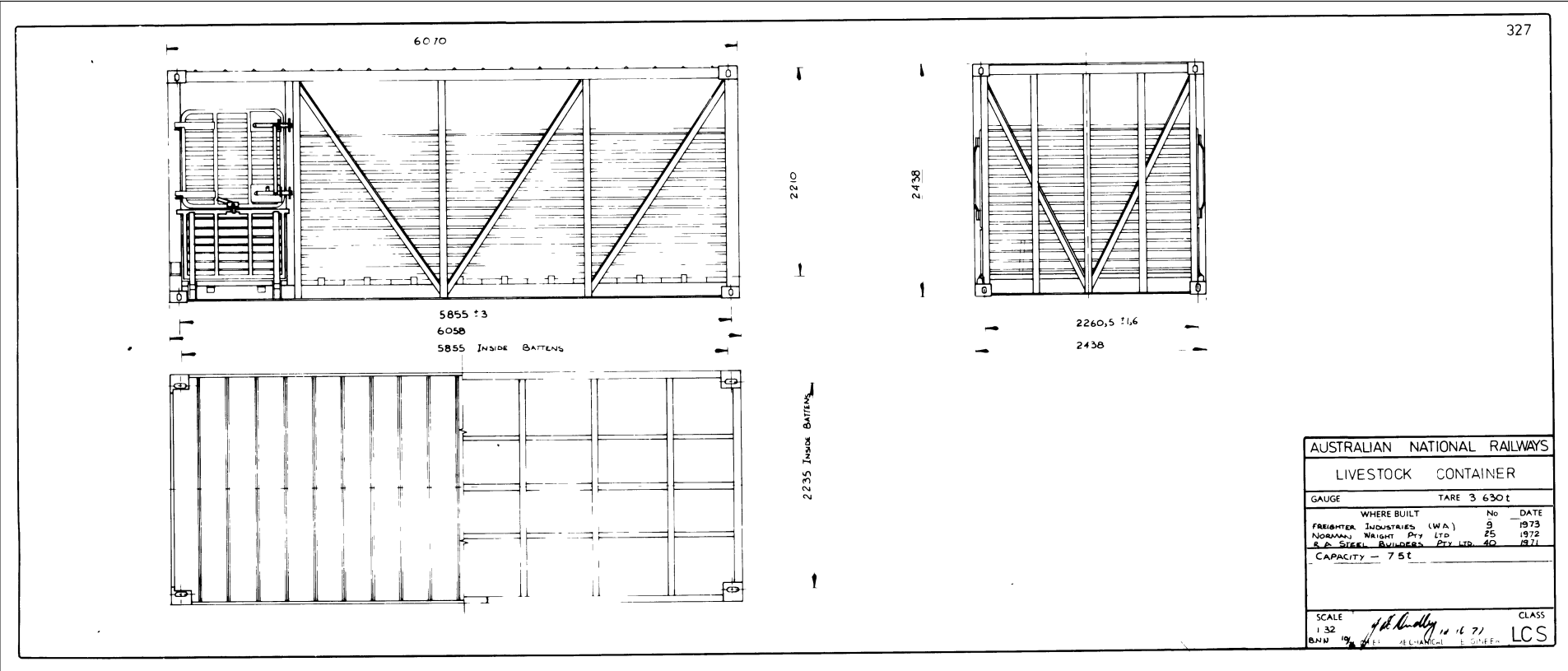
PlanId: NS323

33.13 CCS Car Container



PlanId: NS326

33.14 LCS Livestock Container



PlanId: NS327



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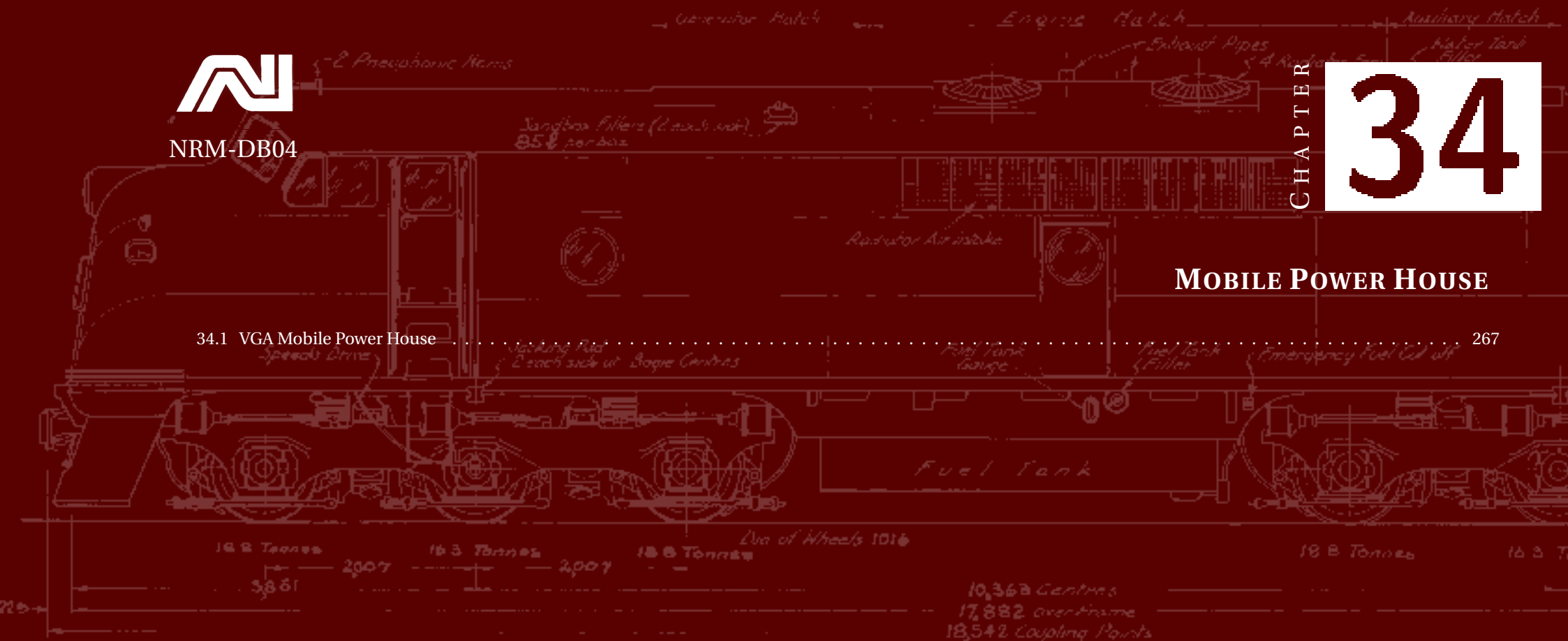
CHAPTER

34

MOBILE POWER HOUSE

34.1 VGA Mobile Power House

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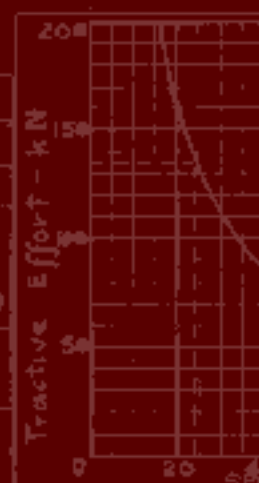


GENERAL

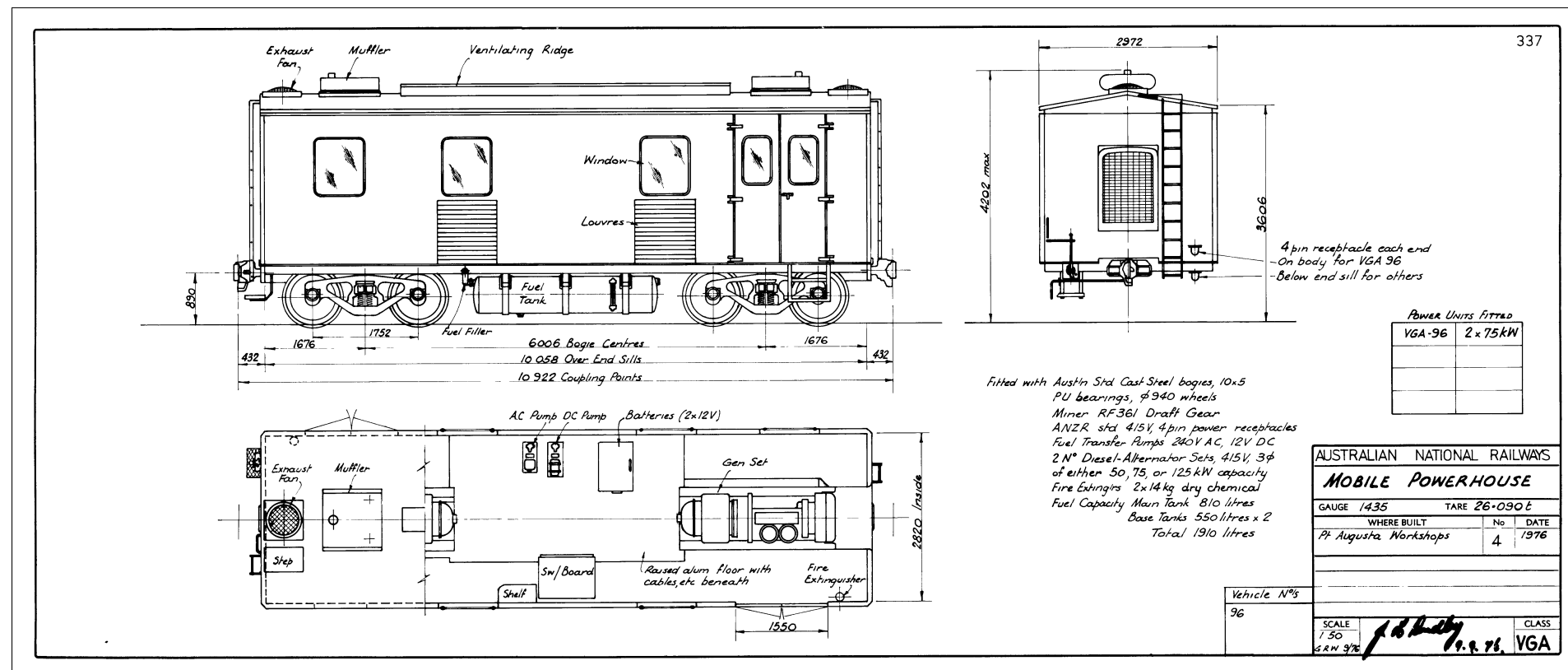
Diesel Engine General Motors EMD Type 16-567B, Two Stroke
Engine Speed 275-800 RPM
Generator Model D12 converts 1120 kW for Traction (D.C.)
Alternator Model D14 for Auxiliaries (A.C.)
Max Tractive Effort Starting, 25% adhesion = 184 kN
" " " Continuous = 132 kN
Four (4) Traction Motors = 8 Driving Wheels
Gear Ratio - 58-19
Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 5.7 Tonnes)
Lubricating Oil Capacity 730 litres
Cooling Water Capacity 842 litres
Fans 4 Radiator, 1 Engine Room, 4 Traction Motor
Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
" " " One Bogie Complete 33,403 kg
" " " Engine & Generator 21,364 kg
" " " 265 Driving Wheels 75 Tonnes
Draft Gear Tough Friction Type PA, Stain Cap 181,818 kg



34.1 VGA Mobile Power House



PlanId: NS337

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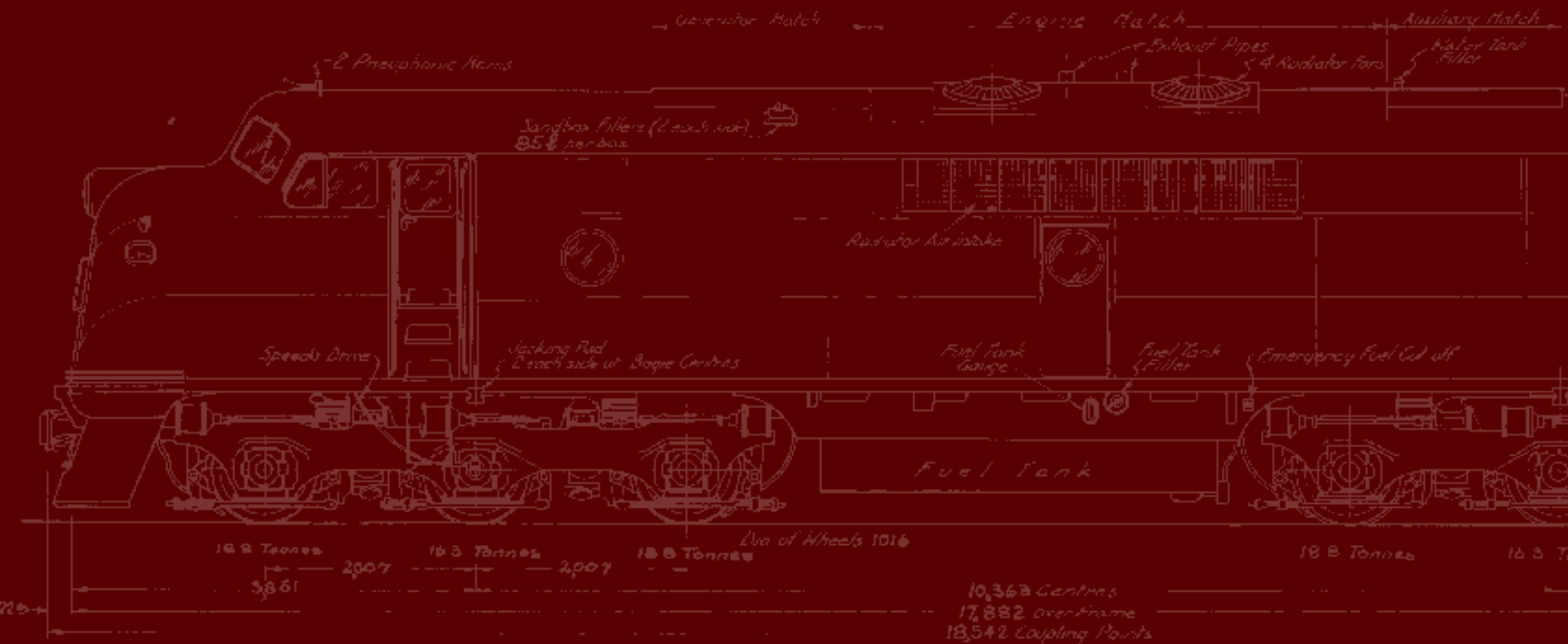
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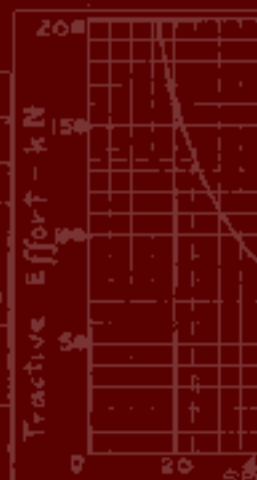


GENERAL

Diesel Engine General Motors EMD Type 16-567B, Two Stroke
 Engine Speed 275-800 RPM
 Generator Model D12 converts 120 kW for traction (D.C.)
 Alternator Model D14 for Auxiliaries (A.C.)
 Max Tractive Effort Starting, 25% adhesion = 184 kN
 " " " Continuous = 132 kN
 Four (4) Traction Motors = 8 Driving Wheels
 Gear Ratio 58-13
 Maximum Speed 143 km/h Min Speed at Cont Rating 24 km/h

SPECIFICATION

Fuel Oil Capacity 6,825 litres (approx wt = 57 Tonnes)
 Lubricating Oil Capacity 730 litres
 Cooling Water Capacity 572 litres
 1 Engine Room, 1 Engine Room, 4 Traction Motor
 Weight of Locomotive Roadworthy 108 Tonnes (inc 3.6T fuel)
 " " " One Bogie Complete 33,403 kg
 " " " Engine & Generator 21,364 kg
 " " " on Driving Wheels 75 Tonnes
 Draft Gear Tough Friction Type PA, Static Cap 181,818 kg

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Australian National CR 1435MM Diagrams

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