

# D33 Acacia Ridge - Maitland

## RAS DIRN Section Page

**Applicability**

- \_\_\_\_\_
- ARTC Network Wide
- \_\_\_\_\_
- SMS
- \_\_\_\_\_

**Publication Requirement**

- \_\_\_\_\_
- Internal / External
- \_\_\_\_\_

**Primary Source**

- \_\_\_\_\_
- \_\_\_\_\_

**Document Status**

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
2.1	8 Sep 22	Operations Standards	Stakeholders	Operations Standards Manager	A/GM Technical Standards 08/09/2022

**Amendment Record**

- Amendments to the RAS are published at the following link
- <https://www.artc.com.au/customers/standards/route/access/>
- All changes in this document are highlighted with this colour

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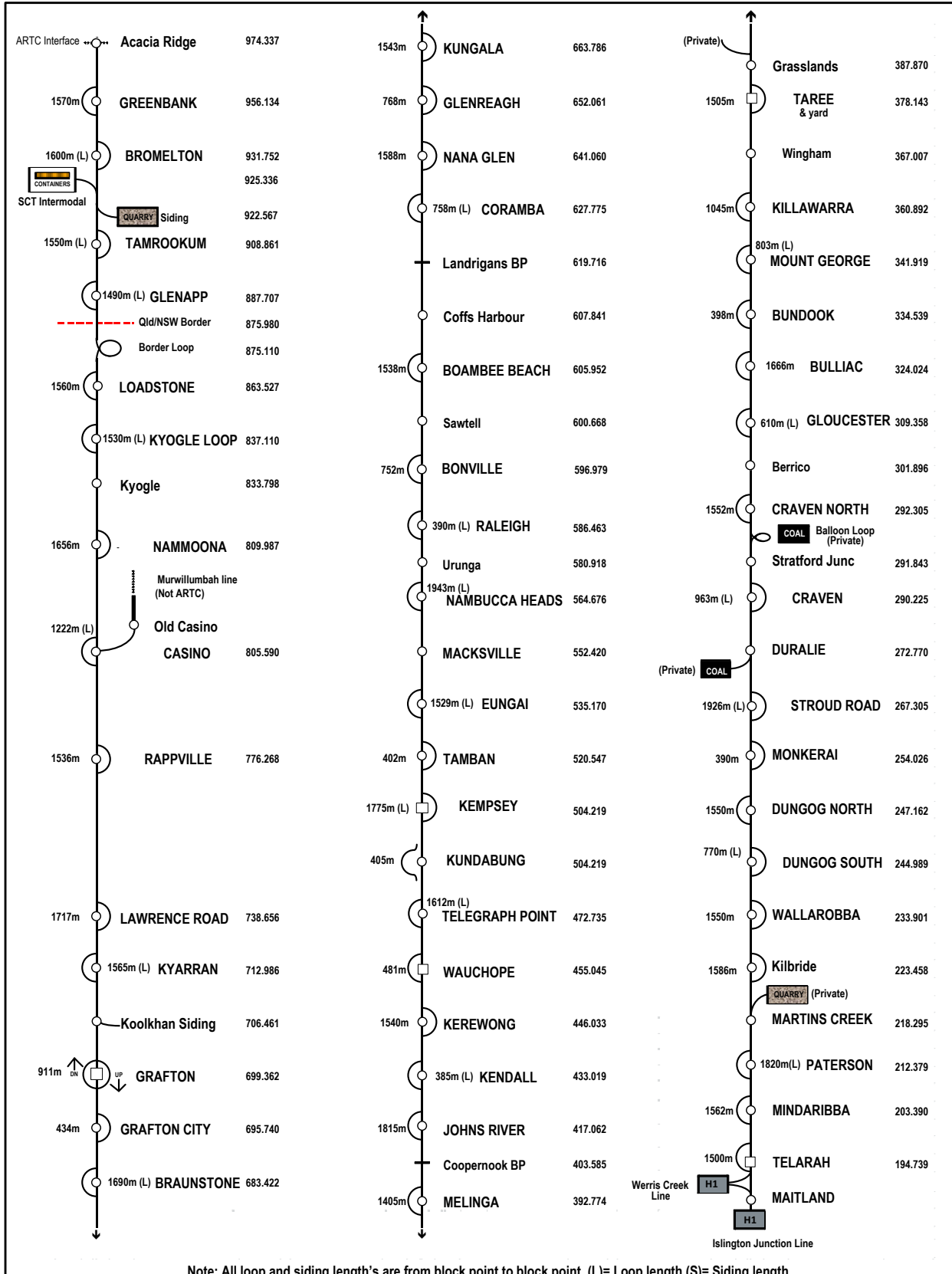
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## Table of Contents

<b>Table of Contents</b> .....	<b>2</b>
<b>1 Network Diagram</b> .....	<b>3</b>
<b>2 Route Capacity</b> .....	<b>4</b>
<b>3 Special Access Conditions</b> .....	<b>5</b>
3.1 NR Locomotives (Maitland) .....	5
3.2 Telarah Triangle .....	5
3.3 Martins Creek Quarry .....	5
3.4 Operation with Reduced Fuel Load .....	5
3.5 Out of Gauge Steel Trains .....	5
3.5.1 <i>Telarah to Acacia Ridge</i> .....	5
<b>4 Permanent Speed Restrictions</b> .....	<b>7</b>
<b>5 Advisory Speed Signs</b> .....	<b>20</b>

## 1 Network Diagram

Note: These line maps are indicative only. For detailed diagrams, refer to relevant Network Information Book.



## 2 Route Capacity

ACACIA RIDGE – STRATFORD JUNCTION			
TRAIN TYPE	MAXIMUM SPEED (KM/H)	MAXIMUM AXLE LOAD (TONNE)	
FREIGHT		LOCOS	WAGONS
	115	22.8	21
	100	22.8	21
	80	22.8	23
PASSENGER		LOCOS	CARRIAGES
EXPRESS <sup>1</sup>	160#	N/A	19
LOCO HAULED <sup>2</sup>	115	19	19
(Includes non-express DMU and rail motors)			
STRATFORD JUNCTION – TELARAH			
TRAIN TYPE	MAXIMUM SPEED (KM/H)	MAXIMUM AXLE LOAD (TONNE)	
FREIGHT		LOCOS	WAGONS
	115	22.8	21
	100	22.8	21
	80	22.8	23
	80	22.8	25
PASSENGER		LOCOS	CARRIAGES
EXPRESS <sup>1</sup>	160#	N/A	19
LOCO HAULED <sup>2</sup>	115	19	19
(Includes non-express DMU and rail motors)			

### General Notes:

- Route capacity applies where vehicle characteristics and conditions permit.

### Referenced Notes:

# Only for vehicles approved to operate up to this maximum speed.

1. Express speeds are for train types that are approved to run to “Express Speed Boards” by the ARTC Network Rules only.
2. For all other passenger trains:
  - a. Freight locomotive speed limits apply for diesel locomotive hauled passenger trains
  - b. Freight wagon speeds apply where freight wagons are marshalled as part of the train
  - c. DMU and rail motors are to adhere to carriage axle loads.

### 3 Special Access Conditions

#### 3.1 NR Locomotives (Maitland)

A maximum speed of 40 km/h applies to NR locomotives passing the number one platform at Maitland.

#### 3.2 Telarah Triangle

A maximum speed of 20 km/h applies to movement through Telarah Triangle.

#### 3.3 Martins Creek Quarry

A maximum speed of 20 km/h applies to movement to and from Martins Creek Quarry. In addition, a maximum mass of 134t also applies to XRN locomotives (or other C44aci models).

#### 3.4 Operation with Reduced Fuel Load

TT, 92, 93, XRN and GWU class locomotives are permitted to operate with reduced fuel load so that they comply with the allowed axle load of 22.8t on the North Coast Line from Telarah to Stratford under the following operating conditions:

1. The mass of each locomotive operating on this service must not exceed **136 tonne** through managing the fuel load.
2. Operators are to ensure that in their fuel management systems, that the locomotive fuel data for each locomotive in every consist operating under this condition is to be checked and entered prior to being able to confirm the consist.
3. Operators will develop guidelines to identify maximum fuel loads from departing / refuelling locations to ensure that the fuel level results in the maximum load of 136 tonne prior to arriving at Telarah.

#### 3.5 Out of Gauge Steel Trains

##### 3.5.1 Telarah to Acacia Ridge

1. To avoid excessive delays between Telarah and Acacia Ridge (QLD), only a train that is not conveying passengers, standing at, or proceeding through a block station or interlocking on an adjacent track, may pass or be passed by the special train conveying the out of gauge steel at a speed not exceeding 10 km/h.
2. In exception to condition one above, the wide out of gauge steel train may pass, or be passed, by a train conveying passengers or a freight train at a speed not exceeding 25 km/h at the locations shown in the table below.
3. The following table lists the locations where crossings may be made as authorised:

LOCATION	CROSSING
TELARAH	LOOP LINE BETWEEN SIGNAL NUMBERS 276 AND 299
DUNGOG	ISLAND PLATFORM
STROUD ROAD	LOOP LINE
GLOUCESTER	LOOP LINE
KILLAWARRA	LOOP LINE
TAREE	LOOP LINE
KENDALL	LOOP LINE
WAUCHOPE	LOOP LINE
TELEGRAPH POINT	LOOP LINE
KEMPSEY	LOOP LINE
EUNGA	LOOP LINE
MACKSVILLE	LOOP LINE
NAMBUCCA HEADS	LOOP LINE
BOAMBEE BEACH	LOOP LINE
GLENREAGH	LOOP LINE
KUNGALA	LOOP LINE
GRAFTON CITY	LOOP LINE
GRAFTON	NUMBER ONE AND NUMBER TWO DOWN RECEPTION SIDING
LAWRENCE ROAD	LOOP LINE
CAMIRA CREEK	LOOP LINE
CASINO	LOOP LINE
KYOGLE LOOP	LOOP LINE
LOADSTONE	LOOP LINE
GLENAPP	LOOP LINE
BROMELTON	LOOP LINE

## 4 Permanent Speed Restrictions

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
<b>MAITLAND</b>	192.900	X25					
	192.950				85		
	193.200	80	85				
	194.565	X25					
	194.620	80	85	85			
<b>TELARAH</b>	197.305				85		
	199.880	70	75	75	80	110	85
	200.253	80	85	85	70	75	75
<b>MINDARIBBA</b>	203.370	X50		X50			
	203.440				X50 OL		X50
	205.020	X50 OL		X50			
	205.086				X50		X50
	205.100	70	75	75	80	85	85
	206.539	90	95	95	70	75	75
	210.602	80	85	85	90	95	95
<b>PATERSON</b>	212.379						
	211.390	X50					
	211.480				X50 OL		X50
	213.320	X50 OL		X50			
	213.359	75	80	80	80	85	85
	213.480				X50		X50
	213.681	110	125	110	75	80	80
	216.004				125		
	216.104				125		
	217.234	75	75	75	110	125	110
217.872				85	80	75	75
<b>MARTINS CREEK</b>	218.532						
<b>QUARRY SIDING</b>	219.176						
	219.979				80		85
	220.997	100	125	100	75	80	80
<b>KILBRIDE</b>	222.670	X50		X50			
	222.750				X50 OL		X50

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	223.962		105			125	
	224.370	X50 OL		X50			
	224.440				X50		X50
	224.825	75	85	75	100	105	100
	225.444		75			85	
	227.436	70		70	75		75
	228.281	80	85	85	70	75	70
	231.296		100			85	
<b>WALLAROBBA</b>	231.673				X50		
	233.015	X50					
	233.477	75	80	80	80	100	85
	233.015	X50					
<b>WALLAROBBA LOOP</b>	234.000						
	234.748				X50		
	235.345					80	
	235.520		120				
	236.788		100				
	237.541		80			100	
	242.098	90	115	95	75	80	80
<b>DUNGOG SOUTH</b>	244.490	X25		X25			
	245.470				X25		X25
	245.540	65	70	70	90	115	95
	245.822	70	115	75	65	70	70
<b>DUNGOG</b>	246.360	X50					
	246.435				X50 OL		
	248.025	X50 OL					
	248.100				X50		
	248.477		75			115	
<b>MONKERAI</b>	254.026						
<b>STROUD ROAD</b>	266.280	X25		X25			
	274.803	100	105	100	70	75	75
	276.409		115			105	
	278.616	70	75	75	100	115	100



MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	280.420		80			75	
	280.968		85			80	
	283.264		75			85	
	285.856	75	80		70	75	
	287.940	65	70	70	75	80	75
	289.660	X25					
	289.675		75			70	
	290.107	80	120	85	65	75	70
	291.500	X50					
<b>CRAVEN</b>	291.580				X50 OL		
	291.760	X35					
<b>STRATFORD BALLOON LOOP JUNCTION</b>	291.780						
	292.361		85			120	
	292.783	95	105	95	80	85	85
	293.102	115	125	115	95	105	95
	293.155	X50 OL					
	293.240				X50		
	295.043		120			125	
	295.143		125			120	
	296.264	70	75	75	115	125	115
	297.234	75			70		
	300.009	70			75		
	303.131		85			75	
	304.730		75			85	
<b>GLOUCESTER</b>	309.358						
	314.917	65	70	70	70	75	75
	316.357	70	75	75	65	70	70
	320.440	60	65	65	70	75	75
	321.960	70	75	75	60	65	65
<b>BULLIAC</b>	323.979						
	324.833	X40 OL				X40 OL	
	324.915				X40		
	332.146	65	70	70	70	75	75

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	333.221	70	75	75	65	70	70
<b>BUNDOOK</b>	334.539						
	336.033	65	70	70	70	75	75
	337.147	70	75	75	65	70	70
	341.060	95	100	95	70	75	75
	341.405	X50					
<b>MT GEORGE</b>	341.919						
	342.402				X25		
	345.089	80				100	
	347.095	70	75	75	80	85	95
	349.015	85	95	85	70	75	75
	352.097	70	75	75	85	95	85
	352.333		100			75	
	353.614		75			100	
	360.100	X25					
	360.180				X50 OL		
<b>KILLAWARRA</b>	360.892						
	361.755	X50 OL					
	361.755	X40 OL			X40 OL		
	361.840				X40		
	367.349	60	65	65	70	75	75
	367.827	70	75	75	60	65	65
	370.998	80	85	85	70	75	75
	373.109		110			85	
	375.023		85			110	
	375.396	70	75	75	80	85	85
	377.330				X50 OL		
<b>TAREE</b>	378.173						
	378.705	55	60	60	70	75	75
	379.078				X25		
	379.139	65	75	75	55	60	60
	380.082	75	85		65	75	
	381.056	80		85	75		75

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	381.783		105		85		
	385.197		85		105		
	385.718	70	75	75	80	85	85
	391.558	80	110	85	70	75	75
<b>MELINGA</b>	392.774						
	394.272		85		110		
	395.417	70	75	75	80	85	85
<b>COOPERNOOK</b>	403.585						
	407.549	80	85	85	70	75	75
	408.576	100	100	100	80	85	85
	411.931	80	85	85	100	100	100
	413.039	70	75	75	80	85	85
	413.474	90	100	90	70	75	75
	415.161	95	105	95	90	100	90
	415.850	X25					
<b>JOHNS RIVER</b>	415.960				X50 OL		
	417.860	X50 OL					
	417.930				X25		
	419.443	70	75	75	95	105	95
	424.683	80	85	85	70	75	75
	427.448	70	75	75	80	85	85
<b>KENDALL</b>	433.019						
	433.756	80	85	85	70	75	75
	436.321	85	95	90	80	85	85
	441.673	70	75	75	85	95	90
<b>KEREWONG</b>	445.105	X50		X50			
	445.180				X50 OL		X50
	446.805	X50 OL		X50			
	446.880				X50		X50
	449.133	115	120	115	70	75	75
<b>WAUCHOPE</b>	455.045						
	459.852	80	85	85	115	120	115
	462.020	90	115	90	80	85	85

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	464.747		100			115	
	467.287	70	75	75	90	100	90
	471.301	80	90	85	70	75	75
	471.826	X25					
	472.394	115	120	115	80	90	85
<b>TELEGRAPH POINT</b>	472.735						
	478.168	110		110	115		115
	485.449	105	115	105	110	120	110
	486.940	X25					
	487.170				X25		
<b>KUNDABUNG</b>	487.226						
	487.929	90	100	90	105	115	105
	488.346	70	75	75	90	100	90
	499.837	80	85	85	70	75	75
	501.729	85	90	90	80	85	85
<b>KEMPSEY</b>	504.219						
	505.130	X40 OL			X40 OL		
	505.210				X40		
	510.541	115	160	115	85	90	90
	513.823		125			160	
	516.797	85	95	85	115	125	115
	517.292	70	75	75	85	95	85
<b>TAMBAN</b>	520.547						
	521.519		80			75	
	522.647	95	110	95	70	80	75
	523.180	105		105	95		95
	525.524	80	85	85	105	110	105
	526.065	70	75	75	80	85	85
	534.310				X25		
<b>EUNGAI</b>	534.340	X25					
	535.731		85			75	
	538.548		75			85	
	542.199	80	85	85	70	75	75

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
EUNGAI deviation	542.700	60	60	60			
EUNGAI deviation	543.300				60	60	60
	545.758	70	75	75	80	85	85
<b>MACKSVILLE</b>	552.420						
	553.472	80	85	85	70	75	75
	555.813	70	75	75	80	85	85
	558.278	60	65	65	70	75	75
	558.872	70	85	75	60	65	65
	560.334		75			85	
	564.465	75	80	80	70	75	75
<b>NAMBUCCA HEADS</b>	564.676						
	565.740	X25					
	566.283	80	85	85	75	80	80
	572.175	90	95	95	80	85	85
	574.310	110	110	110	90	95	95
	579.407	100	105	100	110	110	110
<b>URUNGA</b>	581.448	85	90	85	100	105	100
	583.383	110	120	110	85	90	85
<b>RALEIGH</b>	586.463						
	588.114	70	75	75	110	120	110
	593.569	100	105	100	70	75	75
<b>BONVILLE</b>	596.379						
<b>SAWTELL</b>	601.998		140			105	
<b>BOAMBEE BEACH</b>	606.000						
	607.037	70	75	75	100	140	100
	607.558	100	105	100	70	75	75
<b>COFFS HARBOUR</b>	608.609		110			105	
	611.093	70	75	75	100	110	100
	616.870	65	70		70	75	
	618.990	70	75	75	65	70	70
<b>LANDRIGANS</b>	619.870	60	65				
	620.600	65	70				
	627.300	X25					

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
<b>CORAMBA</b>	627.960						
	630.689		90			75	
	633.014		75			90	
	639.912		95			75	
	640.180	X50		X50			
	640.250				X50 OL		X50
<b>NANA GLEN</b>	641.990	70	75		80	95	
	642.000	X50 OL		X50			
	642.070				X50		X50
	642.156		75			95	
	646.289		85			75	
	648.417		75			85	
	651.245	90	110	90	70	75	75
<b>GLENREAGH</b>	651.590				70 WLO	75 WLO	
	651.700				40 WLO		
	654.045	80	85	85	90	110	90
	662.463	100	125	100	80	85	85
	662.920	X25					
	663.000				X50 OL		
<b>KUNGALA</b>	663.800						
	664.540				X25		
	664.560	X50 OL					
	665.918	80	85	85	100	125	100
	668.177		115			85	
	671.259		85			115	
	674.383	110	125	110	80	85	85
	679.575		120			125	
	679.675		125			120	
	680.064	80	85	85	110	125	110
	682.600	X50		X50			
<b>BRAUNSTONE</b>	682.670			X50	X50 OL		
	684.400	X50 OL		X50			
	684.480				X50		

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	688.143	70	75	75	80	85	85
<b>GRAFTON CITY</b>	695.748						
	695.833	60	65	65	70	75	75
	696.146	75	80	80	60	65	65
	698.620	X40		X40			
	699.278	100	120	110	75	80	80
<b>GRAFTON</b>	699.362						
	704.180		120		100	120	110
	704.422	80	85	85			
	705.578	60	65	65	80	85	85
	705.901	70	95	75	60	65	65
	708.164		75			95	
	708.513	85	90	90	70	75	75
	712.120	X50		X50			
	712.195				X50 OL		X50
	713.139	70	75	75	85	90	90
<b>KYARRAN</b>	713.636						
	713.785	X50 OL		X50			
	713.845				X50		X50
	714.578	80	85	85	70	75	75
	717.998	70	75	75	80	85	85
	719.904	80	85	85	70	75	75
	723.423	60	65	65	80	85	85
	723.827	80	85	85	60	65	65
	724.793		95			85	
	727.130		85			95	
	728.661	70	75	75	80	85	85
	732.991	100	135	100	70	75	75
	736.258		110			135	
<b>LAWRENCE ROAD</b>	738.656						
	739.222		100			110	
	739.620		105			100	
	743.457	70	75	75	100	105	100

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	743.938	80	85	85	70	75	75
	744.632		105			85	
	746.130		85			105	
	746.402	70	75	75	80	85	85
	746.836	85	90	90	70	75	75
<b>CAMIRA CREEK</b>	757.244	75	80	80	85	90	90
	758.485	100	105	100	75	80	80
	758.933		120			105	
	761.756	80	85	85	100	120	100
	763.368	70	75	75	80	85	85
	763.876	115	125	115	70	75	75
	769.554	85	90	90	115	125	115
	771.610	100	100	100	85	90	90
	776.160	X50		X50			
	776.250				X50 OL		X50
<b>RAPPVILLE</b>	776.268						
	776.444		105			100	
	778.065	X50 OL		X50			
	778.135				X50		X50
	782.267	115	130	115	100	105	100
	778.540				X50		
	785.310		120			130	
	785.410		130			120	
	786.182		120			130	
	787.253		125			120	
	788.956		120			125	
	789.056		125			120	
	789.600		120			125	
	789.700		125			120	
	793.621		115			125	
	794.066		120			115	
<b>LEEVILLE</b>	799.446	100	105	100	115	120	115
	803.966	75	80	75	100	105	100



MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	804.800	X25		X25			
<b>CASINO</b>	804.865				X25 OL		X25
	806.122	X25 OL		X25			
	806.187				X25		
	807.135	70	75		75	80	
	808.141	90	95	90	70	75	75
	809.080	X50		X50			
NAMMOONA LOOP	809.171				X50 OL		X50
<b>SOUTH END</b>	809.608						
<b>NAMMOONA BALLAST SIDING SOUTH END</b>	809.987						
<b>NAMMOONA</b>	810.363						
BALLAST SIDING NORTH END	810.743			95			90
	810.846	X50 OL		X50			
<b>NORTH END</b>	810.914				X50		X50
	816.121	115	125	115	90	95	95
	818.603		120			125	
	818.703		125			120	
	823.974	70	80		115	125	
	825.012		120			80	
	828.138		75	75		120	80
	829.206	60	65	65	70	75	75
<b>KYOGLE</b>	833.564		75			65	
	834.467	115	125	115	60	75	65
	834.898		120			125	
	834.998		125			120	
	836.217	X50		X50			
KYOGLE LOOP	836.306				X50 OL		X50
	837.930	X50 OL		X50			
	838.005				X50		X50
	838.841		120			125	
	838.941		125			120	

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	839.374	80	85	85	115	125	115
	839.950	70	75	75	80	85	85
	840.463	80	85	85	70	75	75
	841.409	100	125	115	80	85	85
	846.451	70	80	75	100	125	115
	847.112		75			80	
	849.308		95			75	
	850.821		75			95	
	859.676	60	65	65	70	75	75
	862.786	X50		X50			
	862.900				X50 OL		X50
<b>LOADSTONE</b>	864.470	X50		X50			
	864.570				X50		X50
<b>NSW/QLD BORDER</b>	875.980						
	884.988		70			65	
	886.220	70	75	75	60	70	65
	886.660	X50					
	888.750				X50		
	891.592		80			75	
	892.026	85	95	85	70	80	75
<b>GLENAPP</b>	895.442	70	75	75	85	95	85
	896.019	65	70	70	70	75	75
	900.690	100	105	100	65	70	70
	902.002		125			105	
	904.639		105			125	
	907.992	X50		X50			
	908.072				X50 OL		X50
<b>TAMROOKUM</b>	908.861						
	909.652	X50 OL		X50			
	909.742				X50		X50
	912.964	115	120	115	100	105	100
	919.052	100	105	100	115	120	115

MAITLAND – ACACIA RIDGE							
LOCATION	KILOMETRAGE	DOWN			UP		
		NORMAL	EXPRESS	EP	NORMAL	EXPRESS	EP
	919.352	115	125	115	100	105	100
Quarry siding	922.320	100	110	100	115	125	115
SCT intermodal	925.336	X35					
	925.583	90		90	100		100
	926.141		100			105	
	929.764	115	125	115	90	100	90
	930.870	X25		X25			
	930.950				X25 OL		X25
	931.338		120			125	
	931.438		125			120	
<b>BROMELTON</b>	931.752						
	932.570	X25 OL		X25			
	932.650				X25		X25
	935.018	100	110	100	115	125	115
	935.403	110		110	100		100
	940.494	90	100	90	110	110	110
	940.927	100	110	100	90	100	90
	945.606	115	125	115	100	110	100
	952.452	95	100	95	115	125	115
	953.836	115	125	115	95	100	95
	955.256	X50		X50			
<b>GREENBANK</b>	956.359				X50 OL		X50
	956.905	X50 OL		X50			
	957.000				X50		X50
	958.640	95	105	95	115	125	115
	962.410		95			105	
	963.419		105			95	
	967.326	90	95		95	105	
	969.423			90			95
	971.568				90	95	90
<b>ACACIA RIDGE</b>							

STRATFORD BALLOON LOOP					
LOCATION	KILOMETRAGE	DOWN		UP	
		NORMAL	EXPRESS	NORMAL	EXPRESS
STRATFORD BALLOON LOOP	281.850	35			
	292.730	X35			

## 5 Advisory Speed Signs

LOCATION (KM)	SIGNAL NUMBER	SPEED SHOWN ON SIGN (KM/H)
202.005	DOWN DISTANT MINDARIBBA	65
307.262	DOWN DISTANT GLOUCESTER	55
404.953	UP DISTANT COOPERNOOK	55
506.053	UP DISTANT KEMPSEY	70
554.558	UP DISTANT MACKSVILLE	65
681.614	DOWN DISTANT BRAUNSTONE	70