

D1 Somerton - Laverton - Melbourne

RAS DIRN Section Page

Applicability

ARTC Network Wide

SMS

Publication Requirement

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Amendment Record

Amendments to the RAS are published at the following link

<https://www.artc.com.au/uploads/RAS-Amendment-Register-Master.xlsx>

Changes throughout this document are highlighted with this colour

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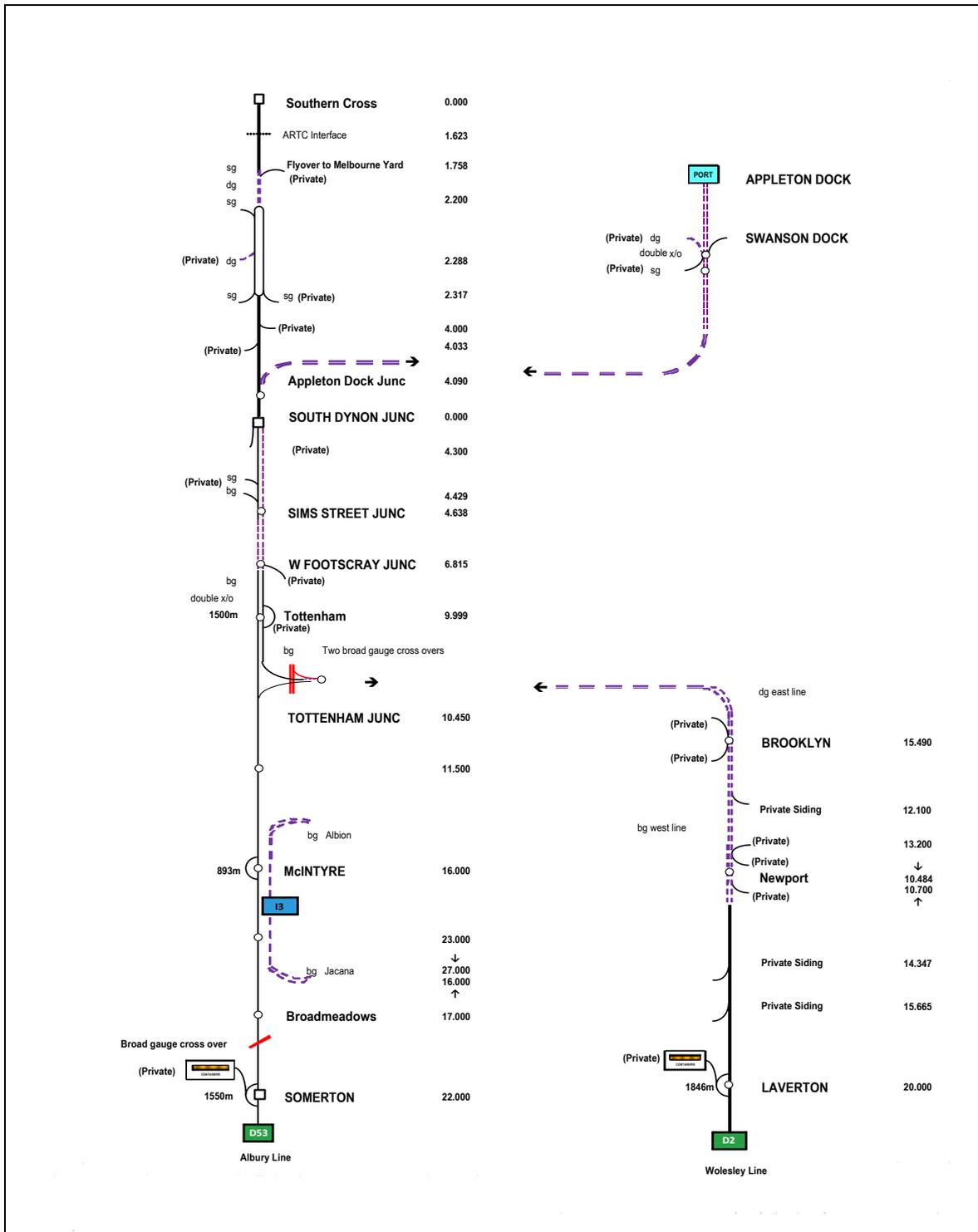
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1 Network Diagram

NB: These line maps are indicative only.



2 Route Capacity

Laverton – Tottenham ²			
Train Type	Maximum Speed	Maximum Axle Load (tonnes)	
	(km/h)	LOCOS	WAGONS
		134t Maximum locomotive weight	
FREIGHT	115	22.8*	20
	110	22.8*	21
	100	22.8*	23
	80	22.8*	25
PASSENGER		LOCOS	CARRIAGES
Loco Hauled	115	22.8*	19

Note:

- 1 Route capacity applies where vehicle characteristics and conditions permit.
- 2 Includes the western leg of Tottenham triangle
- * These posted axles loads are to account for the variability in axle loads for some classes of locomotive. The maximum locomotive weight must still be adhered to.

Somerton – Tottenham ²			
Train Type	Maximum Speed	Maximum Axle Load (tonnes)	
	(km/h)	LOCOS	WAGONS
		134t Maximum locomotive weight	
FREIGHT	115	22.8*	20
	110	22.8*	21
	80	22.8*	23
	80	22.8*	23
PASSENGER		LOCOS	CARRIAGES
XPT	130	19	19

Note:

- 1 Route capacity applies where vehicle characteristics and conditions permit.
- 2 Includes the western leg of Tottenham triangle
- * These posted axles load are to account for the variability in axle loads for some classes of locomotive. The maximum locomotive weight must still be adhered to.

Tottenham – Dynon – Appleton Dock²			
Train Type	Maximum Speed	Maximum Axle Load (tonnes)	
	(km/h)	LOCOS	WAGONS
		134t Maximum locomotive weight	
FREIGHT	115	22.8*	20
	110	22.8*	21
	80		23
PASSENGER		LOCOS	CARRIAGES
Loco Hauled	115	22.8*	19

Note:

- 1 Route capacity applies where vehicle characteristics and conditions permit.
- 2 Includes both North and South legs of Tottenham triangle.
- * These posted axles loads are to account for the variability in axle loads for some classes of locomotive. The maximum locomotive weight must still be adhered to.

South Dynon – Moonee Ponds Junction²			
Train Type	Maximum Speed	Maximum Axle Load (tonnes)	
	(km/h)	LOCOS	WAGONS
		134t Maximum locomotive weight	
FREIGHT	115	22.8*	20
	110	22.8*	21
	80	22.8*	23
PASSENGER		LOCOS	CARRIAGES
Loco Hauled	115	22.8*	19
XPT	130	19	19

Note:

- 1 Route capacity applies where vehicle characteristics and conditions permit.
- 2 Including ARTC section of Broad-Gauge Freight Link Track.
- * These posted axles loads are to account for the variability in axle loads for some classes of locomotive. The maximum locomotive weight must still be adhered to.

3 Special Access Conditions

3.1 Trailerrail Operations

Trailerrail refers to road/rail convertible rolling stock with a fixed, solid outline of 4300 mm high, 2500 mm wide, bogie centres of 13 metres and an overall length of 13.5 metres operating between Dynon and Parkeston only.

Trailerrail is not permitted to operate between Tottenham and Albury.

The maximum speed for Trailerrail on the Up line through Bunbury Street tunnel is 25 km/h.

4 Permanent Speed Restrictions

MELBOURNE – SOMERTON					
LINE SEGMENT	EXCEPTION TO MAXIMUM SPEEDS LOCATION	RESTRICTED SPEED			
		WEST BOUND DOWN		EAST BOUND UP	
		Freight	Passenger	Freight	Passenger
SOUTHERN CROSS	0.000 KM – 1.623KM	REFER TO ADJACENT TRACK OWNER			
ARTC BOUNDARY	1.623 KM - 3.500 KM MAIN LINE	40	40	40	40
	3.500 KM – 3.950 KM MAIN LINE	15	40	40	40
APPLETON DOCK	0.000 KM - 3.950 KM MAIN & LOCAL LINE	15	15	15	15
SOUTH DYNON JUNC	3.950 KM – 4.247KM MAIN & LOCAL LINE	15	35		
SOUTH DYNON JUNC	3.950 KM – 4.670KM MAIN LINE			15	30
	LOCAL LINE			25	30
SIMS STREET	4.247KM – 4.670KM MAIN & LOCAL LINE	30	30		
SIMS STREET	4.670KM – 5.290KM MAIN LINE			15	65
	LOCAL LINE			30	65
	5.290KM – 6.900KM MAIN & LOCAL LINE			65	65
	4.670KM – 6.900KM MAIN & LOCAL LINE	65	65		
WEST FOOTSCRAY	NOTE: ABOVE SPEEDS APPLY FOR BOTH STANDARD AND BROAD MOVEMENTS ON DUAL GAUGE TRACK.				

JUNCTION	6.900 KM	8.600 KM	65
	8.600 KM	10.120 KM	80
TOTTENHAM JUNCTION	10.120 KM*	13.980 KM	95
	13.980 KM	14.500 KM	65
MCINTYRE LOOP	14.500 KM	17.200 KM	115

		EAST BOUND DOWN		WEST BOUND UP	
		Freight	Passenger	Freight	Passenger
MARIBYRNONG VIADUCT	17.200 KM - 18.100 KM SG MAIN LINE	40	40	40	40
MARIBYRNONG VIADUCT	17.200 KM - 18.100 KM BG MAIN LINE	20	20	20	20
#ON LOOP EXIT BOTH ENDS	16.000KM#				30
TULLAMARINE					
	24.380 KM	25.000 KM			95
	25.000 KM	26.200 KM			115
	26.200 KM	17.000 KM			80
	NOTE: 27 KM BECOMES 16 KM				
	17.000 KM	17.560 KM			115
SOMERTON LOOP#	19.380 KM				125 PASSENGER ONLY
	21.270 KM				130 PASSENGER ONLY
	25.660 KM				125 PASSENGER ONLY
	26.020 KM				130 PASSENGER ONLY
	* ON CURVES BETWEEN				
	#MELBOURNE END LOOP EXIT				30

TOTTENHAM – LAVERTON			
LINE SEGMENT	EXCEPTION TO MAXIMUM SPEEDS LOCATION		RESTRICTED SPEED
	17.218 KM*	17.130 KM	30
TOTTENHAM	17.130 KM*	16.100 KM	50
	16.100 KM*	11.030 KM	60
	11.030 KM*	10.484 KM	40
* SPEEDS APPLY FOR BOTH STANDARD AND BROAD MOVEMENT ON DUAL GAUGE TRACK			
NEWPORT	NOTE: KILOMETRES DECREASING FROM TOTTENHAM TO NEWPORT AND INCREASING FROM NEWPORT TO PYRENEES		
	10.700 KM	11.220 KM	40
	11.220 KM	12.120 KM	80

5 Special Speed Restrictions

MELBOURNE – LAVERTON		
LOCATION	MAXIMUM SPEED	
	WHEN RUNNING FROM LINES DIVERGING FROM THE STRAIGHT TRACK (KM/H)	WHEN RUNNING ON THE STRAIGHT TRACK (KM/H)
ALL DUAL GAUGE TURNOUTS	20	LINE SPEED FOR TYPE OF TRAIN
OVER FACING POINTS HELD BY HAND	15	15
BETWEEN TOTTENHAM AND NEWPORT (KILOMETRES DECREASING TOWARDS NEWPORT)	15	LINE SPEED FOR TYPE OF TRAIN
TOTTENHAM JUNCTION GAUGE SEPARATION, BETWEEN 17.125 KM AND 17.100 KM FOR ANY BROAD GAUGE MOVE TO/FROM THE DUAL GAUGE (ACCOUNT DESIGN LAYOUT)		
BROOKLYN BETWEEN 15.600 KM AND 15.560 KM FOR ANY MOVE TO/FROM THE WEST LINE OR TO/FROM SUNSHINE (ACCOUNT DESIGN LAYOUT)	15	LINE SPEED FOR TYPE OF TRAIN
NEWPORT (602 POINTS) BETWEEN 11.010 KM AND 10.970 KM FOR ANY MOVE TO/FROM THE WEST LINE	15	40

BETWEEN ARTC BOUNDARY AND LAVERTON	40	LINE SPEED FOR TYPE OF TRAIN
APPLETON DOCK LINE PARALLEL TO THE MELBOURNE OPERATIONS TERMINAL PAST SHUNT YARD		15 WHISTLE FREQUENTLY AND DIM HEADLIGHT

6 Significant Kilometre Markings

The following locations on the network have kilometre posts that change on the ground and do not follow the measured distance between kilometre posts:

Jacana flyover location

- Tullamarine located at 22.706 km and Somerton located at 22.737 km (Tullamarine is approximately 9 km before Somerton) (27 km becomes 16 km)