

**SOUTHERN CROSS TO ARARAT**
**BROAD GAUGE**
**1. CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS (KM/H)**

		CLASS OF LOCOMOTIVE				
		G, XR, BL	A, B, GM, N, S, X	H, P, T	Y	Sprinter/Vlocity
SOUTHERN CROSS (Platforms 1 to 7) and the V/LINE/METRO TRAINS INTERFACE (Signals FLX 506, FLX 530, FLX 540, FLX 580 and FLX 532).	All Trains	15	25	25	25	25
SOUTH KENSINGTON and SIMS STREET JUNCTION (via Freight Lines)	Freight	40	40	40	40	..
WEST FOOTSCRAY JUNCTION and SUNSHINE (via Freight Lines)	Freight	15	15	15	15	..
South Line – SUNSHINE and 14.230km (Down side of Koroit Creek Bridge (ARDEER))	Freight	80	80	80	65	..
	Pass	90	115	100	..	115
KP 14.230 and 21.000km (Down side of DEER PARK WEST JUNCTION)	Freight	80	80	80	65	..
	Pass	90	115	100	..	130
North Line – SUNSHINE and 21.000km (Down side of DEER PARK WEST JUNCTION)	Freight	80	80	80	65	..
	Pass	90	115	100	..	115
21.000km (Down side of DEER PARK WEST JUNCTION) and 50.610km (Fisken St PCR Up side BACCHUS MARSH)	Freight	80	80	80	65	..
	Pass	90	115	100	..	130
50.610km (Fisken St PCR Up side of BACCHUS MARSH) and BANK BOX LOOP (See Special Speed Restrictions)	Freight	80	80	80	65	..
	Pass	90	115	100	..	115
BANK BOX Loop and BALLARAT EAST (Humffray St PCR 113.109) (See Special Speed Restrictions) (via North and South Lines BUNGAREE DEVIATION)	Freight	80	80	80	65	..
	Pass	90	115	100	..	130
BALLARAT EAST (Humffray St PCR 113.109km) and BALLARAT NORTH JUNCTION (through BALLARAT)	All Trains	40	40	40	40	40
BALLARAT NORTH JUNCTION to KP 126.00			90	90	65	95
KP 126.000 to KP 202.000			115	100	65	130
KP 202.000 to KP 209.610 (Alfred Street PCR)			100	100	65	115
KP 209.610 (Alfred Street PCR ) to ARARAT			65	65	65	65

**1A. VLOCITY RAIL CARS – AUTHORISED 160KM/H PERMITTED SPEEDS**

REGIONAL FAST RAIL CORRIDOR – SUNSHINE TO BALLARAT	VLOCITY
South Line SUNSHINE to KP 15.460 ARDEER	As per table 1 above for Sprinter
North Line SUNSHINE to DEER PARK WEST JUNCTION	As per table 1 above for Sprinter
South Line ARDEER KP 15.460 through DEER PARK WEST JUNCTION to Down side of PARWAN LOOP KP 47.700	160
KP 47.700 Down side of PARWAN LOOP to KP 72.317 down side of BANK BOX LOOP	As per table 1 above for Sprinter
KP 72.317 down side of BANK BOX LOOP via BUNGAREE DEVIATION SOUTH Line to KP 111.650 approach to signal 52 at BALLARAT	160

**2. SPECIAL SPEED RESTRICTIONS**

- The Speed of all UP Freight trains between BALLAN and BACCHUS MARSH must NOT exceed 65km/h from 73.000km to 56.000km.
- Trains hauled by G class locomotives must NOT be permitted to shunt onto the Redan Lines West of LINTON JUNCTION (Ballast Siding 125.400km).
- All Train movements to or from BALLARAT EAST Locomotive Depot must NOT exceed 10km/h.
- All Down Trains entering the Freight Arrival Track from BALLARAT EAST must NOT exceed 10km/h.
- The speed of all trains when passing over Facing Points worked from an interlocking frame or otherwise securely fastened, or over Trailing Points shall be as shown hereunder:

LOCATION	MAXIMUM SPEED	
	When running to or from lines diverging from the straight track km/h	When running on the straight track
Over facing points held by hand	15	15
Between SOUTHERN CROSS and BALLARAT	40	Line speed for Train Type
Except as indicated to higher speed at the signal via the illuminated speed indicator, and BALLARAT EAST (Crossover on Up side of Humffray St PCR).	65	130
Except over Fixed Points and Dual Gauge points at Southern Cross	15	25

**NETWORK SERVICE PLAN**

**SOUTHERN CROSS TO ARARAT**
**BROAD GAUGE**

6. All self propelled Rolling Stock (Locomotives etc) including Track Machines and Track Maintenance vehicles which are not fitted with TPWS must be restricted to a Maximum Speed of 80 (eighty) KMPH between Sunshine and Ballarat.
7. Melbourne Yard – Reversing Loop line speed is 5km/h
8. North Melbourne – Flyover maximum line speed is 15km/h

**3. RULING GRADE LOADS (TONNES)**

SECTION	CLASSES OF LOCOMOTIVES												
	G, XR, BL	N	GM, S, X	Mod. A Class	Non-Mod. A solo or multi with A	Non-Mod. A multi with other class	B	H solo or multi with H, P, T or Y	H multi with other class	T or P solo or multi with H, P, T or Y	T or P multi with other class	Y solo or multi with T, Y, H or P	Y multi with other class
<b>DOWN</b>													
Melbourne to SUNSHINE (via Pass Lines)	2790	1830	1830	1830	1625	1625	1625	1220	1220	1220	1220	730	730
Dynon to TOTTENHAM YARD	2790	1830	1830	1830	1625	1625	1625	1220	1220	1220	1220	760	760
Sunshine to DEER PARK WEST (Boral)	..	..	..	..	..	..	..	1420	1420	1420	1420	915	915
MELTON	2100	1525	1525	1525	1420	1420	1420	1015	1015	1015	1015	730	730
BACCHUS MARSH	1650	1220	1220	1220	1015	1015	1015	815	815	815	815	610	610
BANK BOX LOOP	<b>1200</b>	<b>790</b>	<b>790</b>	<b>1020</b>	<b>660</b>	<b>660</b>	<b>660</b>	<b>405</b>	<b>405</b>	<b>405</b>	<b>405</b>	<b>305</b>	<b>305</b>
BUNGAREE LOOP	..	865	865	1100	710	710	710	455	455	455	455	355	355
BALLARAT	1390	1830	1830	1830	1625	1625	1625	915	915	915	915	610	610
TRAWALLA	..	1525	1525	1525	1420	1420	1420	915	915	915	915	910	910
ARARAT	1390	915	915	1020	760	760	760	510	510	510	510	355	355
<b>UP</b>													
Ararat to BUANGOR		965	965	965	815	815	815	510	510	510	510	..	..
TRAWALLA	1400	865	865	865	760	760	760	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>	<b>355</b>	<b>355</b>
BALLARAT TO	2880	1830	1830	1830	1420	1420	1420	815	815	815	815	455	455
BUNGAREE LOOP	1520	<b>865</b>	..	..	..	..	..	<b>455</b>	<b>455</b>	<b>455</b>	<b>455</b>	..	..
BANK BOX LOOP	..	915	865	1120	760	760	760	510	510	510	510	355	355
BACCHUS MARSH	..	1820	1820	1820	1820	1820	1820	1820	1820	1820	1820	630	630
PARWAN LOOP	..	<b>865</b>	<b>865</b>	<b>1060</b>	<b>710</b>	<b>710</b>	<b>710</b>	510	510	510	510	<b>355</b>	<b>355</b>
ROCKBANK		1625	1625	1625	1625	1625	1625	865	865	865	865	635	635
SUNSHINE	<b>1450</b>	..	..	..	..	..	..	..	..	..	..	1270	1270
TOTTENHAM YARD (Freight Lines)	..	..	..	..	..	..	..	..	..	..	..	..	..
DYNON	3170	2135	2135	2135	2135	2135	2135	1625	1625	1625	1625	1220	1220
Sunshine to MELBOURNE (Via Pass Lines to South Kensington)	3170	2880	2135	2135	2135	2135	2135	1625	1625	1625	1625	1220	1220

**NETWORK SERVICE PLAN**

## SOUTHERN CROSS TO ARARAT

### BROAD GAUGE

#### 4. SAFEWORING SYSTEMS

Automatic Block Signalling is in force on the Up and Down lines between WEST TOWER – SOUTH KENSINGTON – SIMS STREET JUNCTION (via Freight Lines).

Traffic between WEST FOOTSCRAY JUNCTION and SUNSHINE (via Freight Lines) is operated under the special instructions contained in the Book of Rules and Operating Procedures 1994.

Automatic and Track Control is in force between SUNSHINE and BALLARAT. The Regional Signal Controller at BALLARAT operates the points and signals at DEER PARK, DEER PARK WEST, ROCKBANK LOOP, MELTON LOOP, PARWAN LOOP, BACCHUS MARSH LOOP, BANK BOX LOOP and BUNGAREE DEVIATION by remote control from a Visual Display Unit located at BALLARAT.

Station Yard Working is in force between BALLARAT EAST and WENDOUREE controlled from a Visual Display Unit located at BALLARAT.

Train Staff and Ticket is in force between BALLARAT and ARARAT.

The Train Controller at 628 Bourke Street controls the Broad Gauge Signalling at Ararat from a Visual Display Unit.

#### 5. SPECIAL NOTES

A Signaller will be in attendance at Ararat when Staff Tickets are being used.

The Broad Gauge platform at Ararat has a standing room of 103 meters.

#### 6. DISTANCES FROM MELBOURNE AND CLEAR LENGTHS OF CROSSING ROADS

LOCATION	MARKED DISTANCE FROM MELBOURNE (KM)	CLEAR LENGTH OF CROSSING ROADS (LENGTH IN METRES)		
		NO. 1	NO. 2	SIDINGS
TOTTENHAM YARD	8.616	..	..	
TOTTENHAM	9.103	..	..	
TOTTENHAM JUNCTION	10.450	..	..	
SUNSHINE	12.254	..	..	
ARDEER	15.590	..	..	
DEER PARK	17.825	564	..	
DEER PARK WEST JUNCTION	20.805	..	..	
BORAL RESOURCES SIDING #	21.000	..	..	
ROCKBANK LOOP	30.190	751	751	
MELTON LOOP	37.319	130	125	Siding A – 245
PARWAN LOOP	45.687	969	969	
BACCHUS MARSH	50.862	170		No 3 – 152, No 4 – 157 No 5 – 113, No 6 – 172 Sidings A – 170, B – 194, C – 98, D – 186
BANK BOX LOOP	65.803	903	903	
BALLAN	79.680	..	..	
BUNGAREE DEVIATION LINE EAST END ♦	93.576	1444	1444	
BUNGAREE DEVIATION LINE WEST END ♦	101.808	1444	1444	
WARRENHEIP	107.200	..	..	
BALLARAT EAST END	113.109	..	..	
BALLARAT	113.801	..	..	
NORTH BALLARAT JUNCTION (via BALLAN – marked distance)	120.000	..	..	
NORTH BALLARAT JUNCTION (via NORTH GEELONG)	156.900	..	..	
ARARAT	210.771	103	..	112

**Note #** Fitters required to attend onsite to operate point locking.

- ♦ Bungaree Deviation South Line is 5kms shorter than Bungaree Deviation North Line. This causes a kilometre change at the West End of Bungaree Deviation.

### NETWORK SERVICE PLAN

**SOUTHERN CROSS TO ARARAT**
**BROAD GAUGE**
**7. TRACK CLASS**

Track is maintained to the following CLASS standards:

SECTION	CLASS
WEST FOOTSCRAY – SUNSHINE	CLASS 3
SUNSHINE – BALLARAT	CLASS 2
South line	CLASS 1
South line	CLASS 2
South line	CLASS 1
South line	CLASS 2
South line	CLASS 2M
South line	CLASS 2
South line	CLASS 1
South line	CLASS 2
SUNSHINE – DEER PARK WEST	CLASS 2
ROCKBANK CROSSING LOOP	CLASS 2
MELTON CROSSING LOOP	CLASS 2
PARWAN CROSSING LOOP	CLASS 2
BACCHUS MARSH NO 1 ROAD	CLASS 2
BANK BOX CROSSING LOOP	CLASS 2
BUNGAREE CROSSING LOOP	CLASS 2
BALLARAT – ARARAT	CLASS 2

**8. PROTECTED LEVEL CROSSINGS**

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
WEST TOWER – 1.500	Dock Link Road	3.940	BB	MW0039	
SUNSHINE – 12.254	Anderson Road	12.832	BB	AO128	
ARDEER – 15.05	Ardeer Station	15.051	PG	AO150	
	West Street	15.590	PG	AO155	
	Fitzgerald Road	16.002	BB, PG	AO160	
DEER PARK – 17.825	Station Road	17.646	BB, PG	AO176	
	Deer Park Station	17.938	PG	AO179	
	Robinson's Road	19.306	BB PG	AO193	
ROCKBANK LOOP – 30.190	Hopkins Road	24.450	BB	AO244	
	Troupes Road	27.828	BB	AO278	
	Leakes Road	29.579	BB	AO295	
	Rockbank Station	29.876	PG	AO298	
	* Paynes Road	31.297	BB	AO312	
	* Mount Cottrell Road	32.933	BB	AO329	
	* Ferris Road	34.613	BB	AO346	
MELTON – 37.319	Station Road (Exford Road)	37.069	BB, PG	AO370	
	Coburns Road	38.020	BB, PG	AO380	
	* Telephone Road	41.967	BB	AO419	
	* Staughton Siding Road	42.761	BB	AO427	
PARWAN LOOP – 45.687	* Occupation Crossing	45.188	BB	AO451	
	* Occupation Crossing	45.763	BB	AO457	
	* Whelans Road	46.873	BB	AO468	
BACCHUS MARSH – 50.862	Fisken Street	50.396	BB	AO503	
	Parwan Road	51.214	BB, PG	AO512	
	* Osborne Road	52.312	BB	AO523	
	* Kerr's Road	53.435	BB	AO534	
	* Rowsley Station Road	54.608	FL	AO546	
BANK BOX LOOP – 65.803	* Occupation Crossing	64.907	FL	AO649	
	* Ironbark Road	66.994	BB	AO669	
	* Ingliston Drive	72.426	BB	AO724	
BALLAN – 79.475	* Gillets Lane	73.323	FL	AO733	
	* Occupation Crossing	74.053	FL	AO740	
	* Occupation Crossing	76.006	FL	AO760	
	* Ingliston Road	77.974	BB	AO779	

**NETWORK SERVICE PLAN**

**SOUTHERN CROSS TO ARARAT**

**BROAD GAUGE**

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
	* Windle Street	78.722	BB	A0787	19023
	* Cowie Street	79.663	BB	A0796	
	* Old Geelong Road	80.138	BB	A0801	
	* 🚗 Daylesford Road	80.769	BB	A0807	
	* Occupation Crossing	82.212	FL	A0822	
	* Occupation Crossing	82.923	FL	A0829	
	* Bostock Crossing	83.707	FL	A0837	
	* Llandeilo Lane	85.900	BB	A0859	
	* Occupation Crossing	86.447	FL	A0864	
	* Mount Egerton Road	90.783	BB	A0907	
	* Boundary Road	91.908	BB	A0919	
	* Occupation Crossing	92.305	FL	A0923	
	BUNGAREE NORTH LINE	Old Melbourne Road	94.411	BB	
Westcotts (Wallace) Road		97.952	BB	A0979	
* 🚗 Bungaree/Wallace Road		98.444	BB	A0984	
Bungaree/Wallace Road (Old Western Highway)		102.639	BB	A1026	
Lester Road		103.827	BB	A1038	
BALLARAT – 113.812 <i>(Distances via Bungaree South Line )</i>	Torpy's Road	101.710	BB	A1017	19018
	* Occupation Crossing	102.680	BB	A1026	
	* Old Melbourne Road (Dunnstown Road)	103.370	BB, PG	A1033	
	* Tierney Road	104.156	FL	A1041	
	* Ti – Tree Road	106.040	BB	A1060	
	Humffray Street	113.120	BB, PG	A1181	
	<b>Yelta Line Marker Posts Only ♦</b>				
	♦ Lydiard Street	155.923	IG	A1189	
	♦ Doveton Street	156.336	BB	A1193	
	♦ McArthur Street	156.867	BB	A1198	
	* 🚗 Creswick Road / Midland Highway	120.438	BB	A1204	
WENDOUREE – 123.302	Burnbank Street	121.190	BB	A1211	
	Forrest Street	122.303	BB	A1223	
	Gillies Street	123.113	BB PG	A1231	
	Ring Road	124.976	BB	A1249	
	Dowling Road	129.372	FL	A1293	
	Draffins Road	130.879	FL	A1308	
	Powells Road	132.673	FL	A1326	
	Windermere Road	134.459	FL	A1344	
	Carpenter Road	136.247	FL	A1362	
	Burrumbeet Road	139.499	FL	A1394	
BEAUFORT – 164.784	Cockpit Lagoon Road	141.312	BB	A1413	
	Black Bottom Road	150.743	BB	A1507	
	Scullin Road	153.411	BB	A1534	
	Langi Kal Kal Road	157.031	FL	A1570	
	Waterloo Road	157.272	FL	A1572	
	Smiths Lane	159.162	BB	A1591	
	Packhams Lane	160.816	BB	A1608	
	Racecourse Road	163.667	FL	A1636	
	Lawrence Street	164.636	FL	A1646	
	Kings Street	165.022	FL	A1650	
	Shirley Road	167.766	FL	A1677	
	Finnegans Road	170.607	FL	A1706	
	Old Shirley Road	174.862	FL	A1748	
	Streatham Road	175.942	FL	A1759	
	Middle Creek Road	181.460	BB	A1814	
	Yerabbin Road	185.698	BB	A1856	
	High Street	187.459	FL	A1874	
	ARARAT – 210.817	Gravel Route Road	189.264	FL	
Langi Ghiran Picnic Ground Road		198.341	BB	A1983	
Warrayatkin Road		203.327	FL	A2033	

**NETWORK SERVICE PLAN**

**SOUTHERN CROSS TO ARARAT**

**BROAD GAUGE**

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
	Green Hill Lake Road	207.064	FL	A2070	
	Health Street	208.882	FL	A2088	
	Alfred Street	209.610	BB	A2096	

**BB** – Boom Barriers

**NSW** – R.I.C. Distance from Sydney

**T** – Equipped with Telephone Communication

**CC** – Crib Crossing

**PB** – Pedestrian Barriers

**VIC** – Victorian Broad Gauge

**FL** – Flashing Lights

**PG** – Pedestrian Gates

**IG** – Interlocked Gates

**SG** – Standard Gauge

**Note \*** Indicates those level crossings where an increase in speed may be permitted if the train is travelling at or above 50 km/h upon passing the predictor indicator board.

At these Level Crossings indicated above operated with Level Crossing Predictors, the Predictor boards will be placed in accordance with Rule 9 (Section 36) of the Rules and Operating Procedures.

**Note ♣** Level crossing fitted with VicRoads Active Advance Warning Signs. Warning sign faults are to be reported to the VicRoads Fault Centre on 131170.