

SUNBURY TO BENDIGO

BROAD GAUGE

1. CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS (KM/H)

		CLASS OF LOCOMOTIVE					Sprinter	Vlocity
		G, XR, BL	A, B, GM, N, S, X	H, P, T				
SUNBURY and KYNETON WEST Line (Old Down Line) (See Special Speed Restrictions)	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
SUNBURY and KYNETON EAST Line (Old Up Line) (See Special Speed Restrictions)	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
KYNETON and TARADALE	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
TARADALE and ELPHINSTONE WEST Line (Old Down Line) (See Special Speed Restrictions)	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
TARADALE and ELPHINSTONE EAST Line (Old Up Line) (See Special Speed Restrictions)	Freight	80	80	80		..	..
	Pass	80	115	100		115	115	
ELPHINSTONE and CASTLEMAINE	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
CASTLEMAINE and HARCOURT	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
HARCOURT and RAVENSWOOD WEST Line (Old Down Line) See Special Speed Restrictions	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
HARCOURT and RAVENSWOOD EAST Line (Old Up Line) See Special Speed Restrictions	Freight	80	80	80		..	..
	Pass	80	115	100		115	115	
RAVENSWOOD and KANGAROO FLAT	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
KANGAROO FLAT and BENDIGO (KP 160.620) West Line (Old Down Line)	Freight	80	80	80		..	..
	Pass	80	115	100		130	130	
KANGAROO FLAT and BENDIGO (KP 160.620) East Line (Old Up Line)	Freight	65	65	65		..	..
	Pass	65	65	65		65	65	
KP 160.620 to Myrtle Street Overbridge KP 161.574	All Trains	80	80	80		80	80	
Between Myrtle Street Overbridge KP 161.574 and Williamson Street PCR KP 162.572	All Trains	40	40	40		40	40	
Up end of BENDIGO Freight yard for Down Freight entering yard	Freight	15	15	15		15	15	

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

REGIONAL FAST RAIL CORRIDOR – SUNBURY TO BENDIGO	VLOCITY
WEST Line Metro Boundary down side of RUPERTSWOOD to KP 42.670 approach to CLARKEFIELD	As per table 1 above
WEST Line KP 42.670 approach to CLARKEFIELD to KP 71.610 down side of MACEDON	160
WEST Line KP 71.610 down side of MACEDON to KP 75.380 up side of WOODEND	As per table 1 above
WEST Line KP 75.380 Up side of WOODEND through KYNETON and TARADALE WEST Line to KP 112.750 UP side of ELPHINSTONE	160
WEST Line KP 112.750 UP side of ELPHINSTONE to KP 138.697 HARCOURT	As per table 1 above
WEST Line KP 138.697 HARCOURT through RAVENSWOOD to KP 151.780 down side of BIG HILL TUNNEL	160
WEST Line KP 151.780 down side of BIG HILL TUNNEL to 153.200	As per table 1 above
WEST line KP 153.200 to KP 158.598 down side of KANGAROO FLAT Platform	160
KP 158.598 WEST line down side of KANGAROO FLAT Platform to BENDIGO	As per table 1 above

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2. SPECIAL SPEED RESTRICTIONS

- 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 (KM/H)	
	When running to or from lines diverging from the straight track	When running on the straight track
Over facing points held by hand	15	15
Between GISBORNE and KYNETON (except at certain locations where the maximum speed is displayed in excess of 40 km/h for diverging movements)	40	Line Speed for train type

- G class locomotives are restricted to the below listed maximum speed when operating over the bridges, shown hereunder, between SUNBURY and CASTLEMAINE.

MALMSBURY VIADUCT at 101.61km	30kph
TARADALE VIADUCT at 107.88km	30kph
PYRENEES HIGHWAY at 124.71km	30kph

- 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 Sunbury and Bendigo.

- Elphinstone – EAST LINE – A notice board has been provided prior to UP trains reaching the Urquhart Street Level Crossing in Elphinstone at KP: 113.124 on the East Line. This notice board is located at KP: 113.334, 210 metres on the DOWN side of the Urquhart Street Level Crossing. Trains are not to exceed 65 KPH until the train has reached the Urquhart Street Level Crossing on the East Line when travelling in an UP direction.

**EAST LINE
TRAINS NOT TO
EXCEED 65 KPH TO
LEVEL CROSSING**

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
DOWN													
Sunbury to KYNETON	1400	1050	860	1150	860	770	760	620	650	560	500	340	310
CASTLEMAINE	..	2450	2020	2450	2130	1920	1690	1430	1430	1260	1260	840	750
BENDIGO		1110	890	1150	950	860	760	620	560	560	500	365	330
UP													
Bendigo to CASTLEMAINE	..	1240	1020	1250	1020	910	830	720	650	650	580	400	360
KYNETON	..	1090	890	1150	890	800	760	640	640	580	520	360	320
SUNBURY	1550	1540	1370	1600	1450	1310	1240	1020	1020	980	880	660	590

4. SAFEWORING SYSTEMS

Automatic and Track Control is in force on the EAST, WEST and SINGLE Lines between SUNBURY and KANGAROO FLAT in accordance with the provisions of Sections 16 and 36 of the Rules and Operating Procedures.

Automatic Block Signalling is in force between KANGAROO FLAT and BENDIGO

The signalling at SUNBURY is controlled by Metro Trains .

The signalling at GISBORNE, KYNETON, TARADALE, ELPHINSTONE, CASTLEMAINE, HARCOURT, RAVENSWOOD and KANGAROO FLAT is controlled remotely using visual display units located at CENTROL.

NETWORK SERVICE PLAN

SUNBURY TO BENDIGO**BROAD GAUGE****5. SPECIAL NOTES****Sunbury – Gisborne; East and West Lines**

The lease boundary between Metro Trains and V/Line is situated at the Signal Gantry located at KP 40.178

Signals M402 and MM402 are on this Gantry.

1. Castlemaine – A Notice Board is provided applicable to Down trains originating at **Castlemaine Platform No 1** advising Down trains originating at Castlemaine must not depart until **CME30** is at Proceed.

The Notice Board is provided to ensure minimum closure time for the Pedestrian Crossing Gates on the down end of Castlemaine Platform.

2. Castlemaine – A Notice Board is provided applicable to Down trains originating at **Castlemaine Platform No 2** advising Down trains originating at Castlemaine must not depart until **CME32** is at Proceed.

The Notice Board is provided to ensure minimum closure time for the Pedestrian Crossing Gates on the down end of Castlemaine Platform.

**TRAINS ORIGINATING
AT CASTLEMAINE
MUST NOT DEPART
UNTIL CME30
IS AT PROCEED**

**TRAINS ORIGINATING
AT CASTLEMAINE
MUST NOT DEPART
UNTIL CME32
IS AT PROCEED**

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6. DISTANCES FROM MELBOURNE AND CLEAR LENGTH OF CROSSING ROADS

LOCATION	MARKED DISTANCE FROM MELBOURNE (KM)	PLATFORM LENGTH		CLEAR LENGTH OF CROSSING ROADS (LENGTH IN METRES)			SIDINGS
		NO 1	NO 2	NO. 1	NO. 2	NO. 3	
CLARKEFIELD	50.420	118	118	..	..	..
RIDDELLS CREEK	56.900	160	160	..	..	..
GISBORNE	64.212	160	160	150	150	..	Refuge Siding – 445
MACEDON	69.786	160	160	..	..	..
WOODEND	78.085	165	165	..	..	..
KYNETON	91.552	187	187	260	260	..	Siding No 1 – 125 Siding No 2 – 113 Siding No 3 – 135 Siding No 4 – 166 (Siding A) Siding B – 160
MALMSBURY	102.163		122	..	..	..
TARADALE	106.194			..	..	..
ELPHINSTONE	113.617			..	..	..
CASTLEMAINE	125.484	230	171	2200	2200	..	Thompson's Siding – 100
HARCOURT	137.614			..	..	..
RAVENSWOOD	147.549			..	..	..
KANGAROO FLAT	157.358	124	124	..	..	..
GOLDEN SQUARE	159.843			..	..	..
BENDIGO	162.242	250	258	Carriage Sidings Siding No 1 145 Siding No 2 106 Siding No 3 115 Siding No 4 130 Siding No 5 115 Siding No 6 115 Siding No 7 161 Siding No 8 161 Siding No 9 166 Siding No 10 166 Siding No 11 215 Goods Yard Sidings No 2 Road 665 No 3 Road 450 (Up End Access Only) No 4 Road 450 (Up End Access Only) No 1, 5 and 6 Roads Booked Out

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7. TRACK CLASS

Track is maintained to the following class standards.

SECTION			CLASS
SUNBURY – KYNETON	West Track	39.053 km – 40.180 km	CLASS 1
	West Track	40.180 km – 40.754 km	CLASS 2
	West Track	40.754 km – 41.997 km	CLASS 2M
	West Track	41.997 km – 42.670 km	CLASS 2
	West Track	42.670 km – 71.610 km	CLASS 1
	West Track	71.610 km – 71.663 km	CLASS 2
	West Track	71.663 km – 72.704 km	CLASS 2M
	West Track	72.704 km – 75.380 km	CLASS 2
	West Track	75.380 km – 92.044 km	CLASS 1
	East Track	39.053 km – 92.044 km	CLASS 2M
KYNETON – BENDIGO		92.044 km – 112.750 km	CLASS 1
		112.750 km – 112.816 km	CLASS 2
		112.816 km – 113.453 km	CLASS 2M
		113.453 km – 115.163 km	CLASS 2
		115.163 km – 116.540 km	CLASS 2M
		116.540 km – 121.711 km	CLASS 2
		121.711 km – 122.359 km	CLASS 2M
		122.359 km – 124.100 km	CLASS 2
		124.100 km – 125.660 km	CLASS 1
		125.660 km – 126.327 km	CLASS 2
		126.327 km – 126.788 km	CLASS 2M
		126.788 km – 127.495 km	CLASS 2
		127.495 km – 128.838 km	CLASS 2M
		128.838 km – 131.941 km	CLASS 2
		131.941 km – 132.766 km	CLASS 2M
		132.766 km – 132.999 km	CLASS 2
		132.999 km – 134.117 km	CLASS 2M
		134.117 km – 134.764 km	CLASS 2
		134.764 km – 135.520 km	CLASS 2M
		135.520 km – 138.387 km	CLASS 2
	138.387 km – 138.697 km	CLASS 2M	
	138.697 km – 151.780 km	CLASS 1	
	151.780 km – 153.195 km	CLASS 2	
	153.195 km – 157.570 km	CLASS 1	
	157.570 km – 160.650 km	CLASS 2	
	160.650 km – 160.941 km	CLASS 2M	
	160.941 km – 162.240 km	CLASS 2	
TARADALE – ELPHINSTONE EAST LINE		106.500 km – 113.515 km	CLASS 2
CASTLEMAINE No 2 ROAD		124.130 km – 126.343 km	CLASS 2
HARCOURT - RAVENSWOOD EAST LINE		138.313 km – 147.251 km	CLASS 2
KANGAROO FLAT – GOLDEN SQUARE EAST LINE		157.048 km – 160.768 km	CLASS 2

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8. PROTECTED LEVEL CROSSINGS

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATION NUMBER	VICROADS ID NO.
SUNBURY – 38.279	* Raes Road	42.191	FL	M0421	
CLARKEFIELD – 50.420	* Williamsons Road	45.419	BB	M0454	
	* Settlement Road	48.897	BB	M0488	
	* Pedestrian Crossing	50.351	PG EGL	M0503	
RIDDELLS CREEK – 56.900	* Stokes Lane West	55.491	BB	M0554	
	* Pedestrian Crossing	56.961	PG	M0569	
	* Occupation Crossing	56.988	FL	M0570	
GISBORNE – 64.212	Station Road	64.267	BB PG	M0642	
MACEDON – 69.786	* Victoria Street	69.854	PG	M0698	
WOODEND – 78.085	* Pedestrian Crossing	78.155	PG	M0781	
	*♣ Tylden – Woodend Road	79.658	BB	M0796	19016
	* Crows Lane	82.978	BB	M0829	
	* Karlsruhe Station Road	84.860	BB	M0848	
KYNETON – 91.552	* Karlsruhe Central Road	87.733	BB	M0877	
	Mollison Street	91.433	BB PG EGL	M0914	
	£ Harts Lane	94.052	BB	M0940	
	II Lauriston Road	95.545	BB	M0955	
	II Sebastopol Road	96.636	BB	M0966	
	II Ritchies Road	97.595	BB	M0975	
MALMSBURY – 102.163	£ Breakneck Road	99.325	BB	M0993	
	Malmsbury Station	102.073	PG	M1020	
	* Potts Road	109.488	BB	M1094	
CASTLEMAINE – 125.484	Ω Urquhart Street	113.124	BB PG	M1131	
	Castlemaine Station	125.541	PG	M1255	
	Parker Street	126.276	BB PG	M1262	
	* Harcourt Station	133.093	PG	M1330	
KANGAROO FLAT – 157.358	* Ravenswood Avenue	145.084	BB	M1450	
	* Taylor Street	156.331	PG	M1563	
	* Kangaroo Flat Station	157.313	PG	M1573	
BENDIGO – 162.242	* Oak Street	159.047	BB PG	M1590	

BB – Boom Barriers CC – Crib Crossing FL – Flashing Lights IG – Interlocked Gates PG – Pedestrian Gates
 EGL – Electric Gate Latches SG – Standard Gauge VIC – Victorian Broad Gauge

Note * Indicates those level crossings where an increase in speed may be permitted if the train is travelling at or above 50km/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 Book of Rules and Operating Procedures.

Note Ω Indicates those level crossings are operated through Axle Counter Equipment. Reset of this equipment for the Level Crossing Track will be in accordance with Procedure 133 - Axle Counter Level Crossing Reset Procedure, Section 34 of Book of Rules and Operating Procedures

Note £ Indicates those level crossings are operated through Axle Counter Equipment and local reset of Island Track is provided in accordance with Operating Procedure No. 34-133. (Modified Location).

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

Note II Indicates that Road / Rail Vehicles are not permitted to On or Off Track at this level crossing.

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