Route Access Condition Notice

15-00015

Distributed To:	**ARTC Website**
Distribution Date:	**04-05-2015**
Requested By:	**Mark Reeder**
Subject:	**I2 Benalla to Oaklands Revisions**
Effective Period:	**04-05-15 – Until Published**
Amendment Type:	**Permanent (to be added to RAS)**

Note: Permanent Route Access Condition Notices (RACN) are periodically updated in the ARTC Route Access Standard (RAS), at which time the relevant RACN is withdrawn.

RAS Reference:

Section: I2 & General Information 2.11 Safeworking Systems **Version No.:** 1.3 **Page/s:** All

ARTC Network Location:

Line Section: Benalla to Oaklands

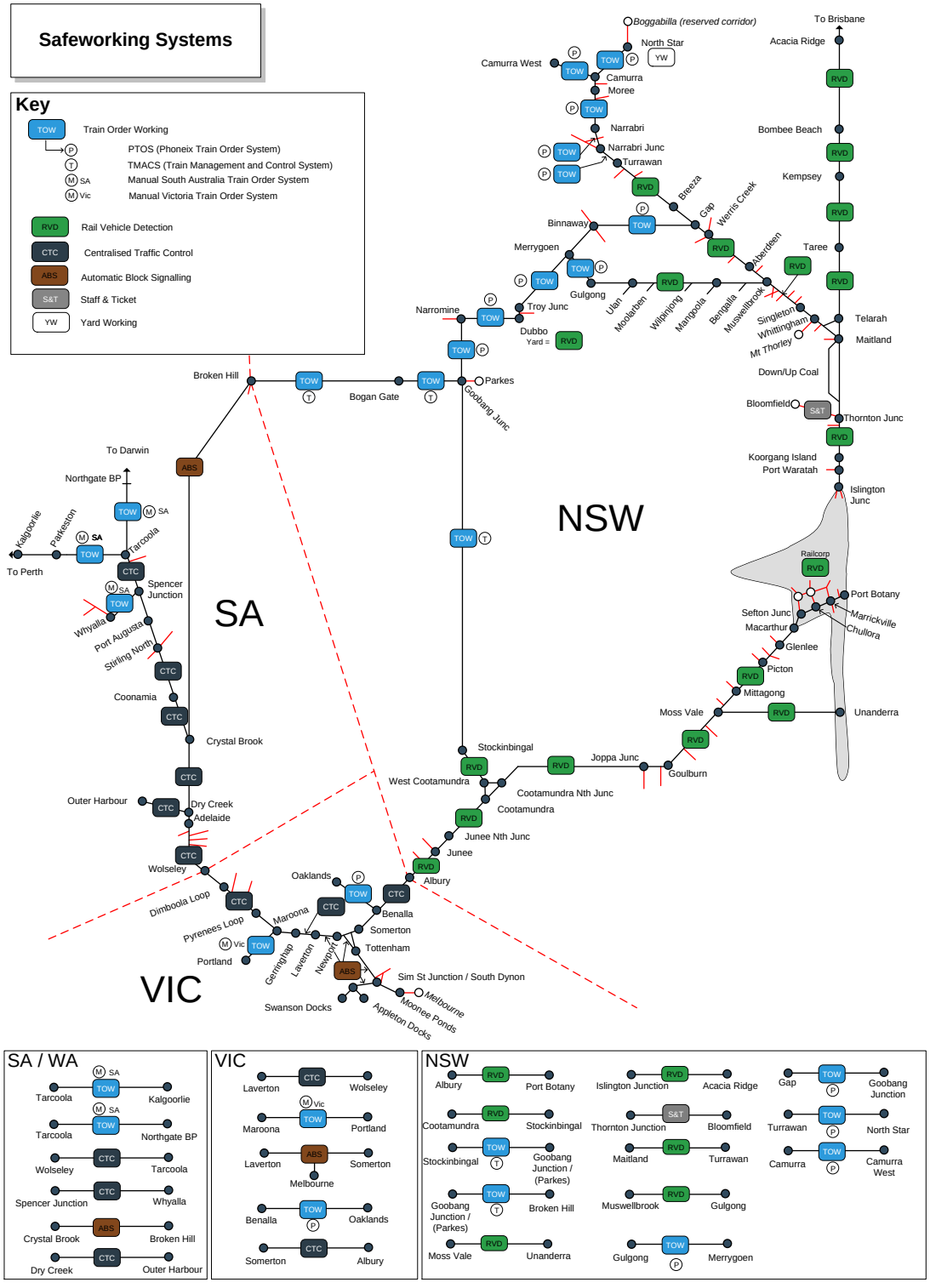
Kms: km - km

Details of RACN: This RACN details an independent review of Benalla to Oakland's please see below:

ARTC Safeworking Systems

The Network Controller is in charge of day-to-day operational control of safeworking systems. Network Controllers operate from Network Control Centres located at Mile End, Broadmeadow and Junee.

Figure 2.11.1 – ARTC Safeworking Systems



Broadmeadow Network Control Centre

Table 2.11.1.1 Safeworking Systems Operated from Broadmeadow Network Control Centre

AREA OF CONTROL	SAFEWORKING SYSTEM
ISLINGTON (INCLUSIVE) – THORNTON (INCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
BLOOMFIELD BRANCH LINE	STAFF AND TICKET (S+T)
THORNTON (EXCLUSIVE) – SINGLETON (INCLUSIVE) AND TELARAH MT THORLEY – BULGA – WAMBO BRANCH LINES	RAIL VEHICLE DETECTION (RVD)
SINGLETON (EXCLUSIVE) – MANGOOLA (EXCLUSIVE) AND ABERDEEN (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
ABERDEEN (INCLUSIVE) – WERRIS CREEK (INCLUSIVE) AND BREEZA (EXCLUSIVE) MANGOOLA (INCLUSIVE) – GULGONG (EXCLUSIVE) (INCLUDING BALLOON LOOPS)	RAIL VEHICLE DETECTION (RVD)
WERRIS CREEK (GAP) (INCLUSIVE) – TURRAWAN (INCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
TELARAH (EXCLUSIVE) – KEMPSEY (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
KEMPSEY (INCLUSIVE) – ACACIA RIDGE (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
DUBBO / TROY JUNCTION (EXCLUSIVE) – MERRYGOEN (INCLUSIVE)	PHOENIX TRAIN ORDER SYSTEM (PTOS)
DUBBO / TROY JUNCTION	RAIL VEHICLE DETECTION (RVD)
MERRYGOEN (INCLUSIVE) – GULGONG (EXCLUSIVE)	PHOENIX TRAIN ORDER SYSTEM (PTOS)
PORT WARATAH AND KOORAGANG TERMINAL AREAS KOORAGANG TERMINAL AREA	RAIL VEHICLE DETECTION, YARD WORKING (RVD)
TURRAWAN (EXCLUSIVE) - MOREE	PHOENIX TRAIN ORDER SYSTEM (PTOS)
GOOBANG JUNCTION (PARKES) (EXCLUSIVE) – NARROMINE (EXCLUSIVE) - DUBBO (EXCLUSIVE)	PHOENIX TRAIN ORDER SYSTEM (PTOS)
MERRYGOEN (INCLUSIVE) – WERRIS CREEK (GAP)(EXCLUSIVE)	PHOENIX TRAIN ORDER SYSTEM (PTOS)
MOREE – NORTH STAR	PHOENIX TRAIN ORDER SYSTEM (PTOS)
CAMURRA – CAMURRA WEST	PHOENIX TRAIN ORDER SYSTEM (PTOS)

Junee Network Control Centre

Table 2.11.2.1 – Safeworking Systems Operated from Junee Network Control Centre

AREA OF CONTROL	SAFEWORKING SYSTEM
MACARTHUR (EXCLUSIVE) – GOULBURN/ JOPPA JUNCTION (EXCLUSIVE) MOSS VALE (INCLUSIVE) – UNANDERRA (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
COOTAMUNDRA (EXCLUSIVE) – ALBURY (INCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
COOTAMUNDRA (INCLUSIVE) – STOCKINBINGAL (INCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
MACARTHUR - SEFTON JUNCTION - PORT BOTANY	RAIL VEHICLE DETECTION (RVD)
ALBURY (INCLUSIVE) – SOMERTON (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
JOPPA JUNCTION (EXCLUSIVE) – JUNEE (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
JUNEE (INCLUSIVE) – ALBURY (EXCLUSIVE)	RAIL VEHICLE DETECTION (RVD)
BENALLA (INCLUSIVE) – OAKLANDS (INCLUSIVE)	PHOENIX TRAIN ORDER SYSTEM (PTOS)(TA20 RULE BOOK VIC)

Mile End Network Control Centre

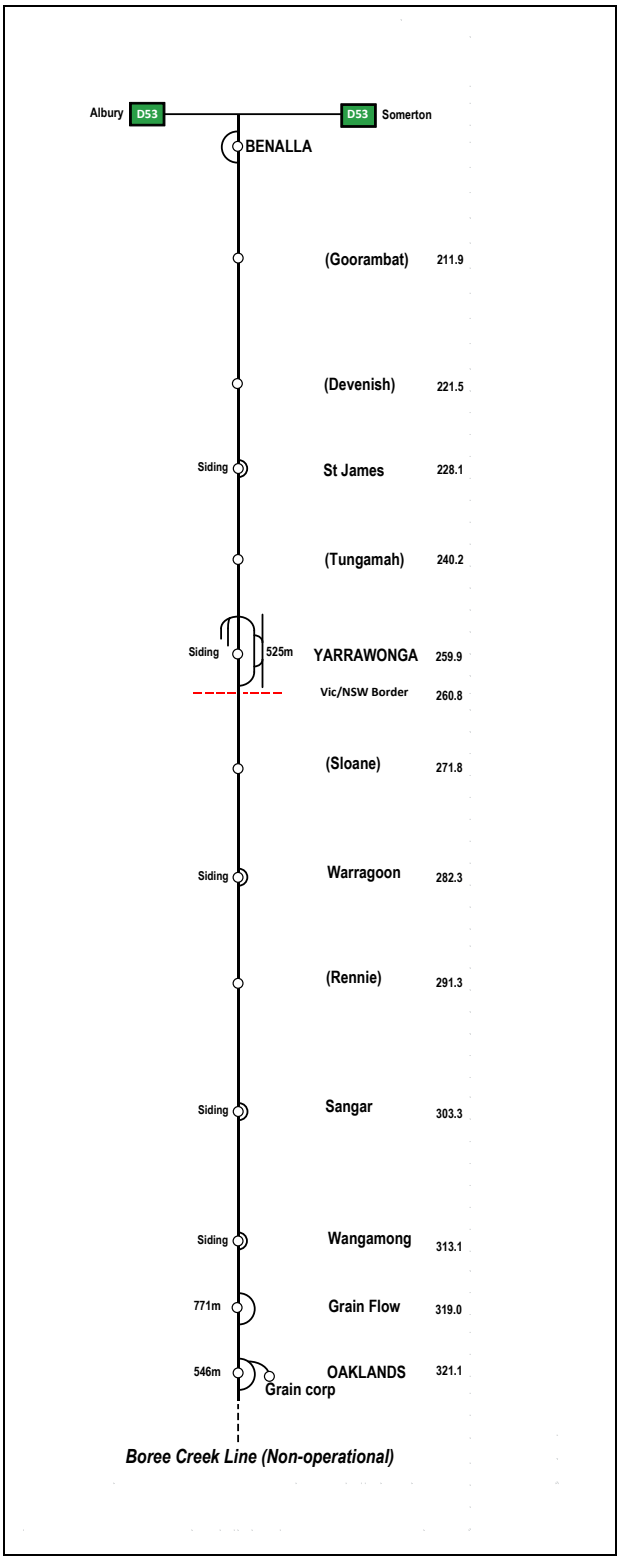
Table 2.11.3.1 Safe Working Systems Operated from Mile End Network Control Centre

AREA OF CONTROL	SAFEWORKING SYSTEM
TOTTENHAM (EXCLUSIVE) – NEWPORT (DUAL GAUGE) (BROOKLYN – NEWPORT, BROAD GAUGE, CONTROLLED BY V-LINE)	AUTOMATIC BLOCK SIGNALLING (ABS)
NEWPORT (STANDARD GAUGE) – LAVERTON LOOP (INCLUSIVE)	AUTOMATIC BLOCK SIGNALLING (ABS)
GHERINGHAP (EXCLUSIVE) – MAROONA (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
MAROONA – PYRENEES (INCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
MOONEE PONDS (ARTC INTERFACE) & APPLETON / SWANSTON DOCKS - SIMS ST JUNCTION - WEST FOOTSCRAY JUNCTION – TOTTENHAM	AUTOMATIC BLOCK SIGNALLING (ABS)
TOTTENHAM – SOMERTON (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
TARCOOLA (EXCLUSIVE) – COOK – WEST KALGOORLIE (EXCLUSIVE)	TRAIN ORDER WORKING (TOW MANUAL SA)(ARTC CODE OF PRACTISE)
SPENCER JUNCTION (EXCLUSIVE) – TARCOOLA	CENTRALISED TRAFFIC CONTROL (CTC)
TARCOOLA - NORTHGATE	TRAIN ORDER WORKING (TOW MANUAL SA)(ARTC CODE OF PRACTISE)
DRY CREEK NORTH JUNCTION – CRYSTAL BROOK	CENTRALISED TRAFFIC CONTROL (CTC)

CRYSTAL BROOK (EXCLUSIVE) – COONAMIA	CENTRALISED TRAFFIC CONTROL (CTC)
COONAMIA – STIRLING NORTH (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
STIRLING NORTH – SPENCER JUNCTION	CENTRALISED TRAFFIC CONTROL (CTC)
PORT AUGUSTA - WHYALLA	TRAIN ORDER WORKING SA (TOW MANUAL SA)(ARTC CODE OF PRACTISE)
CRYSTAL BROOK – BROKEN HILL (EXCLUSIVE)	AUTOMATIC BLOCK SIGNALLING (ABS)
MILE END – DRY CREEK NORTH DRY CREEK JUNCTION – PELICAN POINT	CENTRALISED TRAFFIC CONTROL (CTC)
WOLSELEY – MILE END (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
MAROONA – PYRENEES LOOP (EXCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
PYRENEES LOOP – DIMBOOLA LOOP (INCLUSIVE)	CENTRALISED TRAFFIC CONTROL (CTC)
DIMBOOLA LOOP (EXCLUSIVE) - WOLSELEY	CENTRALISED TRAFFIC CONTROL (CTC)
BROKEN HILL YARD	RAIL VEHICLE DETECTION (RVD)
BROKEN HILL (EXCLUSIVE) – GOOBANG JUNCTION (EXCLUSIVE)	TRAIN MANAGEMENT AND CONTROL SYSTEM (TMACS)
GOOBANG JUNCTION YARD	RAIL VEHICLE DETECTION (RVD)
GOOBANG JUNCTION (EXCLUSIVE) – STOCKINBINGAL (EXCLUSIVE)	TRAIN MANAGEMENT AND CONTROL SYSTEM (TMACS)
ALBION (INCLUSIVE) – TULLAMARINE (DUAL GAUGE) - JACANA (INCLUSIVE) (BROAD GAUGE)	CENTRALISED TRAFFIC CONTROL (CTC)
MAROONA – PORTLAND (INCLUSIVE)	TRAIN ORDER WORKING (TOW MANUAL VIC) (TA20 RULE BOOK)

I2 – Benalla to Oaklands

NB: These line maps are indicative only and should be reviewed in conjunction with the legend on page 3. For more detailed map information refer to the ARTC website.



I2 Route Capacity

BENALLA - OAKLANDS			
TRAIN TYPE	**MAXIMUM SPEED**	**MAXIMUM AXLE LOAD (TONNES)**	
	(KM/H)	LOCOS	WAGONS
FREIGHT	70	20.6	19
	55	21.8	
	N/A	N/A	
PASSENGER	N/A	N/A	
XPT/RAILCAR	N/A	N/A	
XPLORER	N/A	N/A	
DIESEL HAUL	N/A	N/A	

Note: Route capacity applies where vehicle characteristics and conditions permit.

BENALLA – OAKLANDS – CLASS OF LOCOMOTIVE AND PERMITTED SPEEDS (KMH)						
		CLASS OF LOCOMOTIVES				
	TYPE	21.8 T~~(G, XR,B L,N)~~	20.6 T~~(A, B,N, GM, S,X, 22,4 22)~~	H,P,T, CPH, HPC, NPF, NTC	Y	SPRINTER/ V-LOCITY
BENALLA AND YARRAWONGA	FREIGHT	55	70	70	65	-
BENALLA AND YARRAWONGA EXCEPT OVER BOSSEY CREEK OVERFLOW BRIDGE AT 239.170KM BETWEEN ST JAMES AND TUNGAMAH	FREIGHT	30	70	70	65	-
YARRAWONGA RIVER BRIDGE 260.545 -261.330KM		30	30	30	30	-
YARRAWONGAAND 318.481KM	FREIGHT	50	50	50	50	-

I2 Location of Speed Signs

LOCATION	KILOMETRAGE	DOWN		UP	
		NORMAL	XPT	NORMAL	XPT
BENALLA	196.000			50	
YARRAWONGA	259.900			65	
YARRAWONGA (YARD)	260.170	30			
WARRAGOON	282.300			30	
RENNIE	291.300			20	
WANGAMONG	313.100				

~~Speeds can be found at~~

~~http://intranet.artc.com.au/docs/eng/network-config/cd/curves/13_curve_details_benalla_to_oaklands.pdf~~

I2 Pedestrian Crossings

NAME AND KMS OF NEAREST STATION	LEVEL CROSSING	DISTANCE (KM)	TYPE	LOCATI NUMBE
BENALLA – 195.251	DELATITE SHIRE BYPASS ROAD	200.074	FL	EY2000
YARRAWONGA – 259.862	KATAMATITE – YARRAWONGA ROAD	256.478	FL	EY2564
	MURRAY VALLEY HIGHWAY	259.590	FL	EY2595
RENNIE – 291.254	RIVERINA HIGHWAY	294.462	FL	EY2946

BB	BOOM BARRIERS	**NSW**	R.I.C DISTANCE FROM SYDNEY
CC	CRIB CROSSING	**PB**	PEDESTRIAN CROSSING
FL	FLASHING LIGHTS	**PG**	PEDESTRIAN GATES
SG	STANDARD GAUGE	**T-**	EQUIPPED WITH TELEPHONE COMMUNICATIO
IG	INTERLOCKING GATES	**VIC**	VICTORIAN BROAD GAUGE

I2 Operational Restrictions

The Benella to Oaklands route is a designated freight line and as such has no heritage and /or passenger services are permitted to operate on this line without prior permission from the ARTC Operations Manager North/South Corridor.

Issued By: *Richard Potts*

Australian Rail Track Corporation

Approved By: Minor - Manager Standards

NAN Ref (if applicable):