

<b>Notice Type:</b>	SAFE Notice		
<b>Location:</b>	NARRABRI		
<b>Subject Title:</b>	McKenzie St Level Crossing (566.915 km) and Pedestrian Crossing (566.937 km) Upgrade		
<b>Corridor/line:</b>	Main North West: Turrawan (exc) to North Star (inc)	<b>Direction:</b>	Bi-Directional
<b>Control Board:</b>	NCCN – Hunter North West		
<b>Kilometrage:</b>	566.238	To:	568.880
<b>LX ID Number:</b>	ALCAM ID 539 and ALCAM ID 1904		
<b>Effective From:</b>	21/05/2024	<b>Time1:</b>	0630
<b>Effective To:</b>	24/05/2024	<b>Time2:</b>	0630

**Reference Documents:**

<b>Train Alteration Advice:</b>	0352-2024 Amendment 1
<b>Network Information Book:</b>	OGW-30-23

**General Details / Operating Condition:**

Commencing at 0630hrs Tuesday 21<sup>st</sup> May 2024 and continuing until 0630hrs Thursday 24<sup>th</sup> May 2024, or until commissioned, the Mackenzie St level crossing, Narrabri at 566.915km, will be upgraded from Type D level crossing to a Type F level crossing.

The Mackenzie St Pedestrian level crossing located at 566.970km will be replaced by an upgraded pedestrian maze with lit DON'T WALK displays, audible warning devices and automatically controlled gates at 566.938km. As part of these works the existing McKenzie St Pedestrian Level Crossing at 566.970km will be permanently removed.

The commissioning of signalling alterations will involve the testing of signals, track circuits and level crossing equipment.

Changes will include:

- Axle counter rail vehicle detection
- Active level crossing
- Active gated pedestrian crossing
- Main line indicator
- Operational Signage.

The Train Order System at NCCN will be updated to reflect the upgrades.

## New Signalling Infrastructure.

The following new equipment will be commissioned and booked into use:

Equipment	Description	Location	Type
MKQ1	Axle Counter	566.239 Km	Frauscher R2
MKQ2	Axle Counter	566.805 Km	Frauscher R2
MKQ3	Axle Counter	566.910 Km	Frauscher R2
MKQ4	Axle Counter	566.946 Km	Frauscher R2
MKQ5	Axle Counter	567.530 Km	Frauscher R2
MKDX1T	Track Circuit	566.910 Km	Axle Counter
MKDX2T	Track Circuit	566.910 Km	Axle Counter
MKDXT	Track Circuit	566.910 Km	Axle Counter
MKUXT	Track Circuit	566.910 Km	Axle Counter
Z MLI	Indicator	566.805 Km	R-Y Pushbutton MLI
MLI	Push Button	566.805 Km	MLI Push Button
Z MLI Instruction Sign	Sign	566.805 Km	Safeworking Instruction Sign
Standard trackside Type F Level crossing sign (W7-4B)	Sign	566.239 Km	Level Crossing Approach Sign Down direction
'Axle Counter'	Sign	566.239 Km	Axle Counter Sign
McKenzie St Level Crossing	Level Crossing	566.915 Km	Type F flashing lights, audible warning devices and boom gates
McKenzie St Pedestrian Crossing	Pedestrian Crossing	566.938 Km	RX-12 assemblies (DONT WALK lights), audible warning devices with motorised swing gates and a maze
McKenzie Street Signalling Hut	Signalling Room	566.910 Km	Sandwich Panel Room
Test Switch	Level Crossing Equipment	566.910 Km	Test Switch Box
Emergency Switches	Level Crossing Equipment	566.910 Km	LX Emergency Switch Box
Manual Operation Switch	Level Crossing Equipment	566.910 Km	Manual Switch Box
Axle Counter Reset	Axle Counter Equipment	566.910 Km	Axle Counter Reset Box
PED Emergency Switches	Level Crossing Equipment	566.910 Km	PED Emergency Switch Box
'Axle Counter'	2 x Sign Back to Back	566.910 Km	Axle Counter Sign
'Axle Counter'	2 x Sign Back to Back	566.946 Km	Axle Counter Sign
Standard trackside Type F Level crossing sign (W7-4B)	Sign	567.530 Km	Level Crossing Approach Sign Up direction
'Axle Counter'	Sign	567.530 Km	Axle Counter Sign
X MLI Instruction Sign	Sign	568.880 Km	Safeworking Instruction Sign

**Infrastructure Alterations**

The following infrastructure will be altered:

Equipment	Description	Location	Change	New
Narrabri Junction Down Shunt Limit	Sign	566.261 Km	Relocation	566.239 Km
Narrabri Down Yard Limit	Sign	567.160 Km	Relocation	567.530 Km
Narrabri Junction Up Yard Limit	Sign	567.160 Km	Relocation	567.530 Km

**Permanently Removed Infrastructure.**

The following infrastructure will be booked out of use and permanently removed:

Equipment	Description	Location
Mackenzie St Pedestrian Crossing Maze	Pedestrian Crossing	566.970 Km
80km/h Up Direction Sign	Permanent Speed Sign	568.268 Km

**Amendment to Network Information Books****Goobang Junction (exc) to Dubbo (exc) and Turrawan (exc) to North Star (inc) & Camurra West  
OGW-30-23**

The attached Drivers' Diagram will be used to amend NIB diagrams:

- NIB-T0592 Turrawan to Moree
- NIB-T0518 Narrabri
- NIB-T0519 Narrabri

**1.6 Level Crossings****Delete:**

Alcam ID	Cerberus ID	Road Name	Line Segment	KM	Traffic Type	Access	Control Type
539		McKenzie Street Narrabri	Werris Creek - Mungindi	566.915		Public	Stop Signs
1904		McKenzie Street Narrabri	Werris Creek - Mungindi	566.970		Public	Pedestrian Maze

**Insert:**

Alcam ID	Cerberus ID	Road Name	Line Segment	KM	Traffic Type	Access	Control Type
539	550	McKenzie Street Narrabri	Werris Creek - Mungindi	566.915		Public	Half Boom Flashing Lights Axle Counter
1904	550	McKenzie Street Narrabri	Werris Creek - Mungindi	566.937	Pedestrian	Public	Automatic Gates

**3.2 Narrabri Junction (NBJ)****3.2.1 General Arrangements****Delete:****Yard Limits**

A YARD LIMIT sign is located at 563.226km to indicate the Narrabri Junction yard limit in the down direction.

A YARD LIMIT sign is located at 567.160km to indicate the Narrabri Junction yard limit in the up direction.

**Insert:****Yard Limits**

A YARD LIMIT sign is located at 563.226km to indicate the Narrabri Junction yard limit in the down direction.

A YARD LIMIT sign is located at 567.530km to indicate the Narrabri Junction yard limit in the up direction.

**Delete:****Shunting Limits**

A SHUNT LIMIT sign is provided at 566.261km to indicate the Narrabri Junction shunting limit in the down direction.

A SHUNT LIMIT sign is provided at 563.726km to indicate the Narrabri Junction shunting limit in the up direction.

**Insert:****Shunting Limits**

A SHUNT LIMIT sign is provided at 566.239km to indicate the Narrabri Junction shunting limit in the down direction.

A SHUNT LIMIT sign is provided at 563.726km to indicate the Narrabri Junction shunting limit in the up direction.

**Insert after Old Turrawan Road Level Crossing****McKenzie Street Level Crossing**

Type F flashing lights, audible warning devices and boom are provided at McKenzie Street level crossing at 566.915km.

The warning equipment is activated via axle counter train detection equipment for Down and Up direction rail traffic.

An axle counter reset panel is provided on the side of the level crossing hut.

The McKenzie Street level crossing Test and Emergency keys are held at the Narrabri Provisioning Centre.

**McKenzie Street Pedestrian Level Crossing**

McKenzie Street Pedestrian Level Crossing at 566.937km is provided with lit DON'T WALK displays, audible warning devices, automatic controlled gates and crossing approach mazes.

**Insert:****Main Line Indicators**

A Main Line Indicator (MLI) is located on the Sydney ("Z" MLI) approach to **Mackenzie St** level crossing. During normal operation the "Z" MLI will display a Yellow indication to approaching rail traffic.

Rail Traffic that is not in the possession of a through Train Order will be required to stop at 'Z' MLI and a Competent Worker must restore the MLI to the STOP position. The Competent Worker must depress the "Cancel" button in the "Z" MLI Pushbutton panel which places the MLI at STOP, cancelling the operation of the level crossing. When a train order is issued, the Competent Worker must set the 'Z' MLI by pressing and holding the set button in the "Z" MLI Pushbutton panel for two seconds. This will activate the level crossing warning equipment and "Z" MLI will clear when the boom barriers are in the horizontal position.

**3.3 Narrabri (NBI)****Delete:****Yard Limits**

A YARD LIMIT sign is located at 567.160km to indicate the Narrabri yard limit in the down direction.

A YARD LIMIT sign is located at 571.299km to indicate the Narrabri yard limit in the up direction.

**Insert:**

A YARD LIMIT sign is located at 567.530km to indicate the Narrabri yard limit in the down direction.

A YARD LIMIT sign is located at 571.299km to indicate the Narrabri yard limit in the up direction.

**Insert:**

**Main Line Indicators**

Rail Traffic that is not in the possession of a through Train Order will be required to stop at 'X' MLI (Fitzroy Street) and a Competent Worker must restore the MLI to the STOP position. When a train order is issued, the Competent Worker must set the 'X' MLI via the pushbuttons provided which will activate the crossing warning equipment.

**Amendments to Route Access Standard**

Route Access Standard – H3 Werris Creek to Narrabri Section 4 Page 9 is to be amended with the removal of the 2 x 80km/h Permanent Speed Signs at 568.268km.

**Safeworking Arrangements:**

**Additional Details:**

An Infrastructure Booking Advice (ANRF 003) must be compiled as per ANWT-312 and ANPR 704 to book out of use, book back into use, permanently remove or commission infrastructure.

The work must be carried out as per the appropriate ARTC Network Rules and Procedures.

Recipients must ensure this Notice is circulated to and understood by all personnel affected by, or needing to know, its content.

This Notice must be issued to all affected Competent Workers.

Competent Workers who receive this Notice must follow the requirements.

**Contact Details:**

Contact:

Contact No.

Contact:

Contact No.

**Approval:**

Approved by:

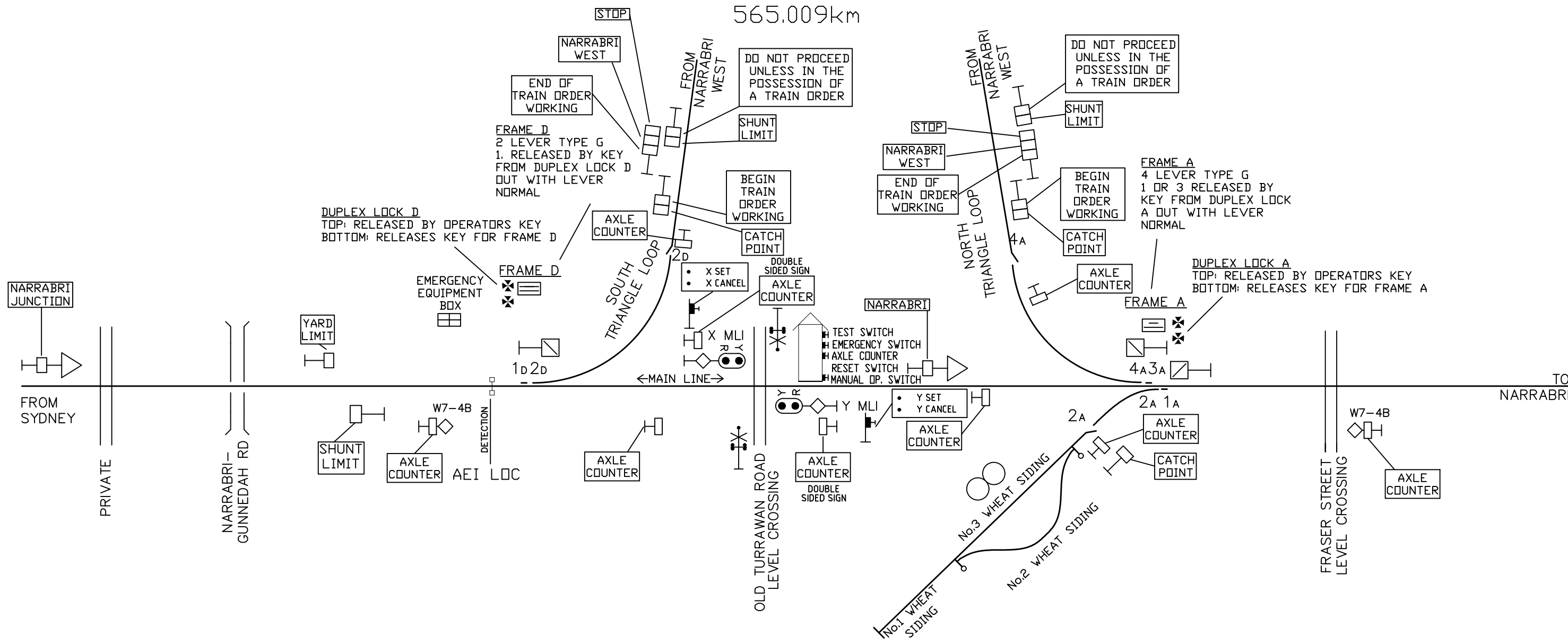
Date:

**NOTE:** Remove unused fields

A 562km 563km 564km 565km 566km

B 561.212km 561.802km 562.680km 563.226km 563.726km 564.171km 564.641km 564.716km 564.778km 564.928km 564.940km 564.960km 565.121km 565.221km 565.276km 565.326km 565.590km 565.640km

NARRABRI JUNCTION  
 565.009km



SECTION: TURRAWAN - NARRABRI JUNCTION: TRAIN ORDER WORKING

SECTION: NARRABRI JUNCTION - NARRABRI: TRAIN ORDER WORKING

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 Drawing standard in accordance with EGP-04-01 & EGP-04-02

Used on / Next higher assembly:  
 ASSEMBLY

Filename: 397DD01.DWG  
 Alternate DMS number:

9	18/01/24	Provision of McKenzie Street Level Crossing EJ0977P8	P.H.		M.L.		
8	08/04/19	Updated to CCC Job No EJ2784	M.M.		R.K.		
7	14/12/17	Installation of FA2C Axle Counters at Narrabri - Old Turrawan Rd LX Job NO. EJ2784	P.A.M.M	K.L.	M.L.		
6	30/06/16	Northwest TOW As-built - EJ2085-16-S	K.Q.	K.Q.	M.L.		
5	04/08/11	Update to CCC	C.R.		N.G.		
4	03/12/10	Post Commissioning Modifications - Movement of Narrabri Dn location board	C.R.		N.G.		
3	29/10/10	TOW Location Boards Modification	C.R.		M.L.		
2	06/10/10	Finalisation of TOW	C.R.		M.L.		
Rev	Date	Revision Description	Designed	Checked	Ind. Rev.	Approv.	

Designing Company: VERTEX RAIL

Designed: -  
 Checked: -  
 Ind.Rev. Company: -  
 Ind.Rev. Name: -  
 Review Signature: -

ARTC ACCEPTANCE  
 Accepted By: -  
 Signed: -  
 Acceptance Date: -

ARTC

397DD01.DWG

TITLE  
**NARRABRI  
 DRIVERS DIAGRAM**

Sheet No: 1 of 3  
 Scale: 1:NTS  
 SHEET SIZE A3

NARRABRI JUNCTION

NARRABRI

566km

567km

568km

566.239km

566.805km

566.910km

566.915km

566.946km

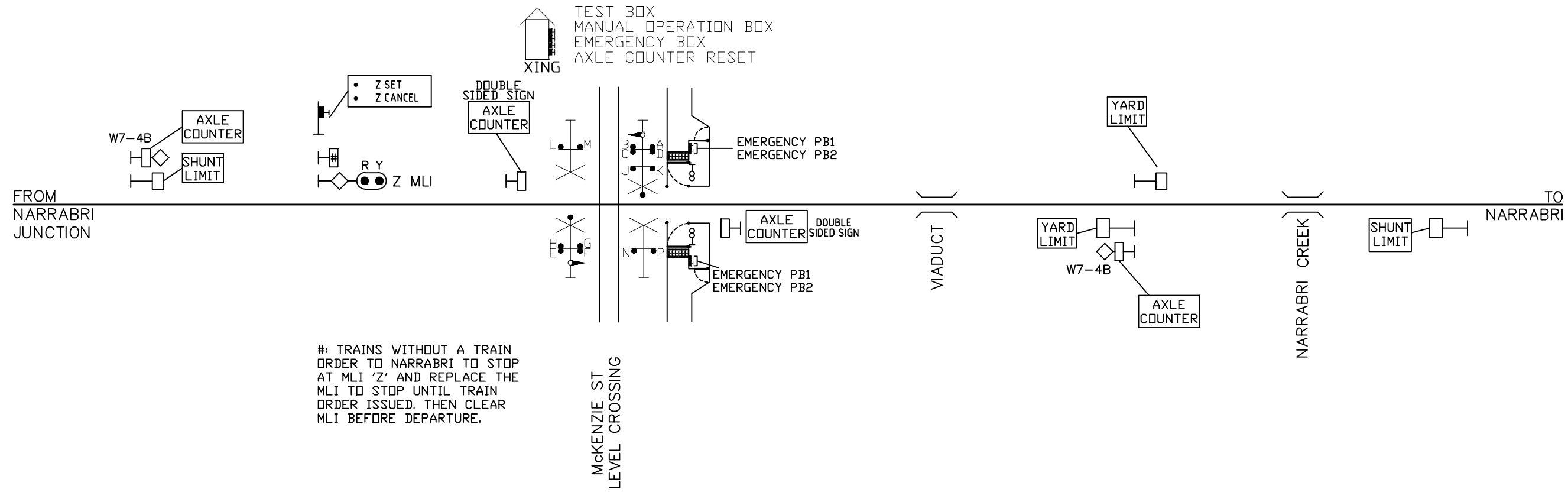
567.283km

567.530km

567.663km

568.200km

TEST BOX  
MANUAL OPERATION BOX  
EMERGENCY BOX  
AXLE COUNTER RESET



#: TRAINS WITHOUT A TRAIN ORDER TO NARRABRI TO STOP AT MLI 'Z' AND REPLACE THE MLI TO STOP UNTIL TRAIN ORDER ISSUED. THEN CLEAR MLI BEFORE DEPARTURE.

SECTION: NARRABRI JUNCTION - NARRABRI: TRAIN ORDER WORKING

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Used on / Next higher assembly:  
ASSEMBLY

Filename: 397DD02.DWG  
Alternate DMS number:

Rev	Date	Revision Description	Designed	Checked	Ind. Rev.	Approv.
2	13/03/24	Provision of McKenzie Street Level Crossing EJ0977P8 - Updates to Site Measurements	P.H.	M.L.		
1	18/01/24	Provision of McKenzie Street Level Crossing EJ0977P8	P.H.	M.L.		

Designing Company: <b>VERTEX RAIL</b>	
Designed	ARTC ACCEPTANCE
Checked	Accepted By
Ind.Rev. Company	Ind.Rev. Name
Review Signature	Signed:
	Acceptance Date

ARTC

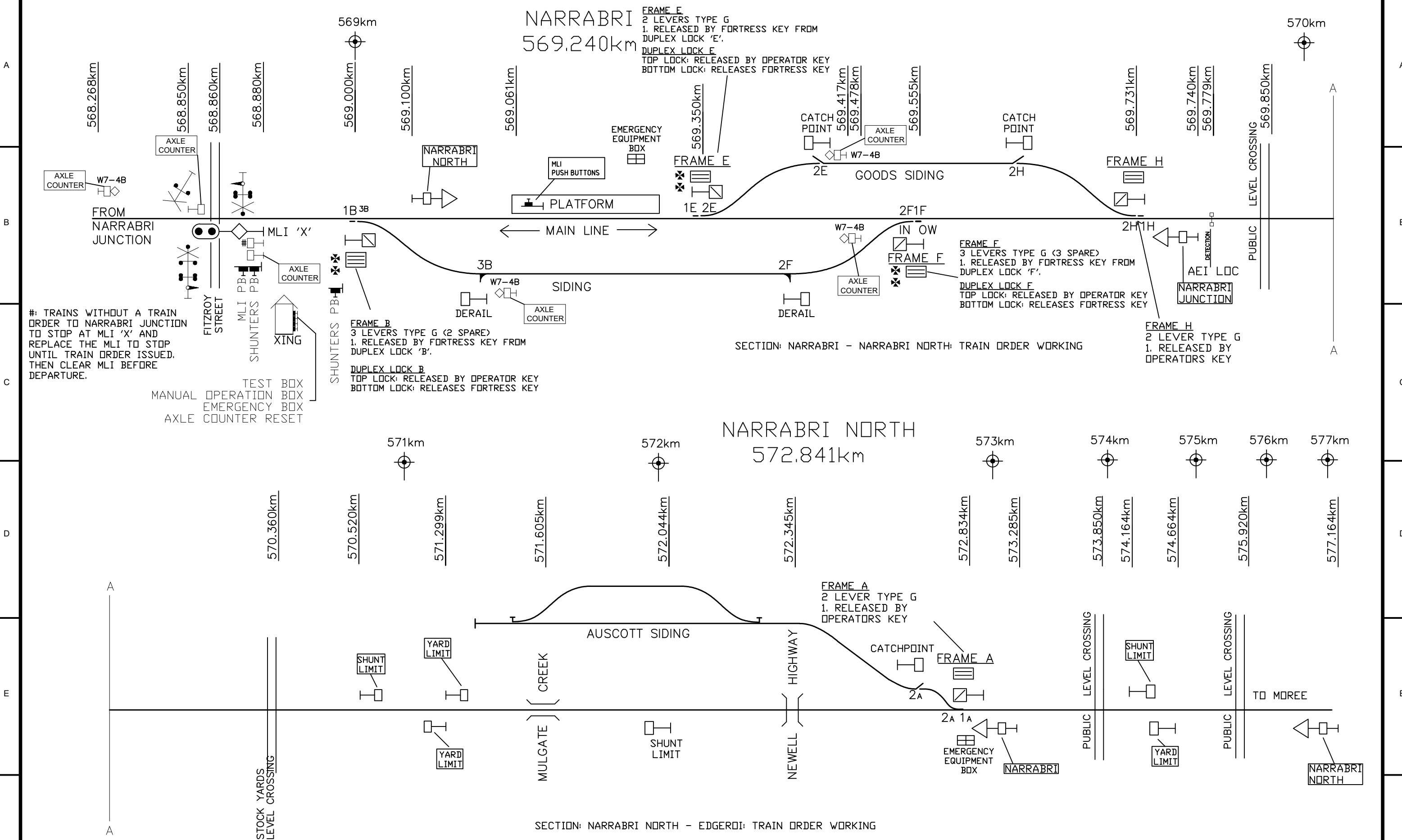
397DD02.DWG

Sheet No: 2 of 3  
Scale: 1:NTS

SHEET SIZE A3

TITLE  
**NARRABRI DRIVERS DIAGRAM**





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Used on / Next higher assembly:  
ASSEMBLY

Filename: 397DD03.DWG  
Alternate DMS number:

Rev	Date	Revision Description	Designed	Checked	Ind. Rev.	Approv.
9	17/01/24	Provision of McKenzie Street Level Crossing EJ0977PB	P.H.		M.L.	
8	10/03/22	Inland Rail - N2NS - Narrabri North enabling works - Job No. EJ2996	L.P./R.B.	C.R.	G.S.	T.N.
7	19/04/17	Narrabri Fitzroy St Axle counter upgrade As-built - Job No. EJ2635-03-S	N.S.	A.A.		M.L.
6	30/06/16	Northwest TOW As-built - EJ2065-16-S	K.Q.	K.Q.		M.L.
5	16/07/11	Updated to CCC - AS10304	S.L.			
4	25/11/10	UX Track conversion from HXP to Solar DC	C.R.			G.C.
3	29/10/10	TOW Location Boards Modification	C.R.			M.L.
2	06/10/10	Finalisation of TOW	C.R.			M.L.

Designing Company:		<b>VERTEX RAIL</b> <small>PROVIDING EXCELLENCE</small>	
Designed		ARTC ACCEPTANCE	Accepted By
Checked			
Ind. Rev. Company	Ind. Rev. Name	Reviewed	Signature
		Signature	Acceptance Date

**ARTC**

397DD03.DWG

SHEET 3 of 3  
Scale: 1:NTS  
SHEET SIZE A3

TITLE  
**NARRABRI DRIVERS DIAGRAM**