

# Western System Information Pack

Miles to Cunnamulla

Westgate to Quilpie

Dalby to Glenmorgan

Miles to Wandoan

Tycanba to Jandowae

# **Version Information**

#### Version 3.0: 05/08/2016

- Removed closed lines/systems
- Updated References Queensland Rail Network to Queensland Rail
- Updated References Queensland Transport to DTMR
- Removed references 2005 Access Undertaking
- EPA changed to Department
- Updated Standards references
- Updated Line Diagrams
- Updated Climate Information
- Updated Track Grade
- Updated Network Control Regions & Singalling Centres
- Updated Safeworking Systems
- Update Noise Management System



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# Introduction

The detail provided in this pack relates to infrastructure and operational information necessary to develop a conceptual operating plan/Access Application. It is envisaged that Access Seekers will liaise closely with Queensland Rail to formulate a detailed operating specification as part of a full access agreement negotiation. Operational parameters outlined in this pack may be varied by mutual agreement with **Queensland Rail**.

All railway operators, wishing to operate in Queensland, require Accreditation under the Transport Infrastructure Act 1994 (Qld) and need to consider, but not limited to, the following aspects of typical rail operations:-

- Provisioning, stabling or stowing areas for rollingstock
- Train crewing
- Safeworking
- Training
- Route knowledge
- Environmental requirements
- Track standards
- Signalling and traction systems standards and constraints
- Safety training
- Management of risk
- Rollingstock registration and Train authorisation
- Legal issues as contained in Queensland Rail's Access Undertaking, Access Agreements and information contained in this pack.

Operators will be required to have accreditation with the Department of Transport and Main Roads, hold an Access Agreement with **Queensland Rail** and meet any conditions and precedents specified in the Access Agreement prior to commencing operations.

Accreditation means an applicant has confirmed that they are able to meet the requirements to carry out railway operations in Queensland. The Director-General, the Department of Transport and Main Roads, must be satisfied that the applicant has demonstrated:

- Effective management and control of rolling stock
- Competence and capacity to manage risks to safety associated with railway operations
- Competence and capacity to implement the required safety management system and has met the legislative requirements
- Financial capacity, or public risk insurance arrangements for potential liabilities.

Contact details are:

|        | Customer Services, Safety and Regulation Division: |
|--------|--|
| Ph:    | 07 3066 2689                                       |
| Email: | <u>rsr@tmr.qld.gov.au</u>                          |
| Post:  | PO Box 673   |
|        | Fortitude Valley QLD 4006                          |
| Web:   | www.tmr.qld.gov.au                                 |

Operators need to be aware of and comply with other general legislation such as but not limited to Workplace Health & Safety, Environmental legislation and Heritage legislation.



This package is issued to railway operators as an UNCONTROLLED DOCUMENT and is reviewed annually. It is the onus of railway operators to ensure they are using the current version of this document.

This Information Pack is provided for information purposes only and Queensland Rail does not make any representation or warranty, express or implied, as to the accuracy, suitability or completeness of the information. To the extent that any inconsistency arises between this Information Pack and the Access Agreement or Queensland Rail's Access Undertaking, the provisions of the Access Agreement and Queensland Rail's Access Undertaking shall prevail.

### **General Information**

The Western system runs over 1082 route km and consists of the corridor from Miles to Cunnamulla with branch lines:

- Westgate to Quilpie
- Dalby to Glenmorgan
- Miles to Wandoan
- Tycanba to Jandowae.

The Western system adjoins the far western section of the West Moreton system at Miles with Western system branch lines running directly off the West Moreton system.

The Western system caters primarily for agricultural products, particularly grain and livestock (cattle) and also passenger services.

The Western system may also carry freight traffic (e.g. pipes). Freight traffic from the Western system traverses the West Moreton and south-east Queensland systems with grain and cotton railed to and pipes railed from the Port of Brisbane and livestock to Dinmore and Holmview.

The Westlander long distance passenger service runs between Brisbane and Charleville.



Descriptive distances within this document (unless otherwise stated) are based on physical kilometre posts in the field and are to be used only as location descriptors ie they do not compensate for equalities resulting from deviations. Access charges and performance statistics are generated using actual through distances derived from relevant Working Plan and Sections and reflected on Line Code Diagrams. Generally distances originate from the junction of the branch and commence at 0 km.

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# **General Climate - Queensland Wide**

The system is situated in south/south-west Queensland and in a generally warm to hot temperature climate.

The following sub-sections specify general climatic parameters. For latest and more specific information potential railway operators should consult The Australian Bureau of Meteorology at its Internet Website: http://www.bom.gov.au/climate

#### Cyclones

Tropical lows, which develop from November to April, occasionally deepen to cause tropical cyclones. Tropical cyclones show great variation in behaviour. They foster high winds, heavy, flood-producing rainfall (especially when a cyclone moves over high ground), and coastal storm surges.

The high wind risk does not usually extend further inland than 50 km. Inland movement reduces the inflow of moisture and cyclone intensity declines, often within a few hours.

Not all cyclones are severe.

The direct impact of cyclones on this System if any would be very minimal.

#### Humidity

This region could experience prolonged periods of high humidity and potential railway operators should consider this when planning / designing rollingstock and machinery to operate on this rail system.

#### Rainfall

The wettest places in Queensland are located on the tropical coast between Innisfail and Cairns.

Highest rainfall occurs on the seaward side of the Great Divide.

However, at times in summer the inland extension of low-level moist airflow, in combination with intense surface heating, produces significant thunderstorm activity. Rainfall is mostly confined to summer months in the northern tropics, where in excess of 90% of the annual total is recorded between November and April.

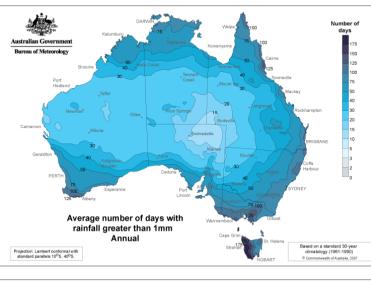
In the north, rain is mostly associated with monsoonal troughs.

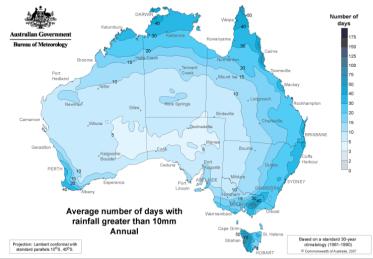
The wet season in Queensland is predominantly from January to April when monthly rain falls of 400 mm or more can occur.

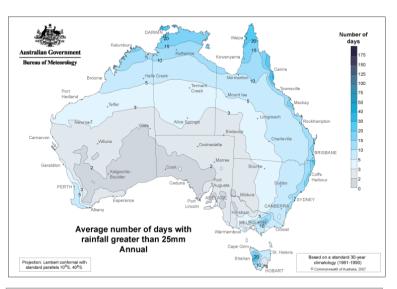
Flooding of low lying areas is likely to occur as an indirect result of cyclones and heavy coastal rains, when streams and rivers that rise near the coast flow inland. In these instances floodwaters can affect this System several weeks after the event, on average closing the Charleville to Cunnamulla section for 7 days every 5. years and the Westgate to Quilpie section for 7 days every 5 years.

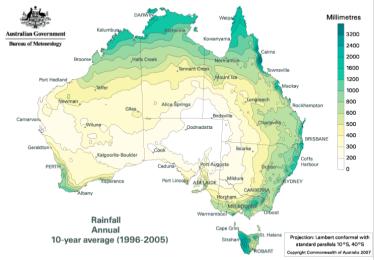
This is an average figure and closure periods of greater duration are possible in any one year.Issue 3.0 – October 2016Page 6 of 103

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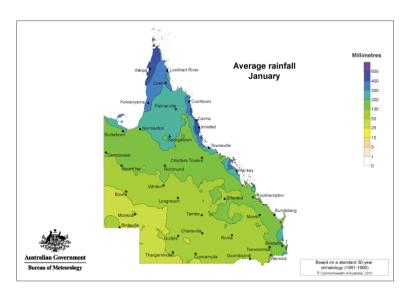


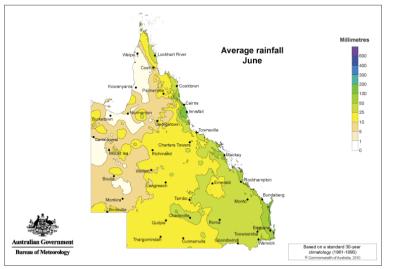


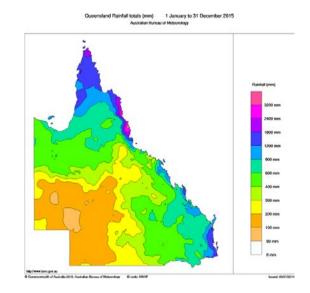


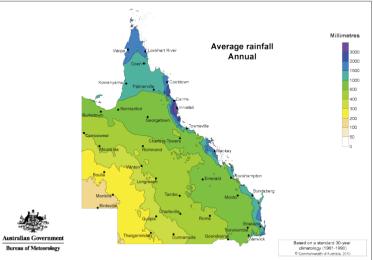


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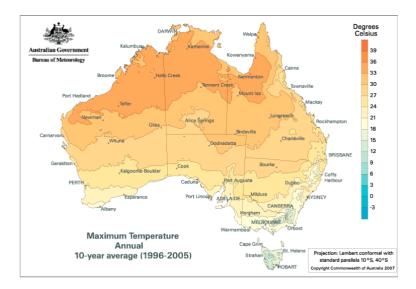


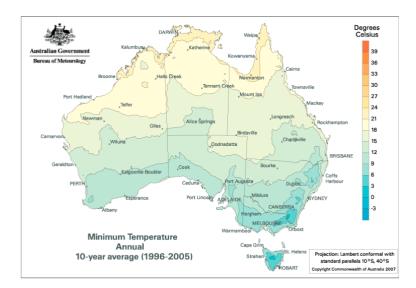


#### Temperatures

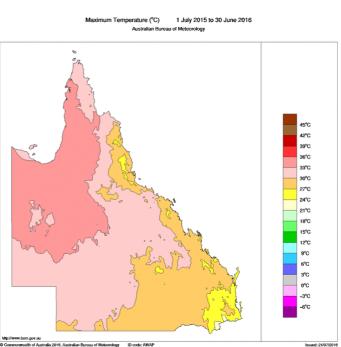
The average annual values of the daytime maximum of the hottest (January) and night- time minimum of the coldest (July) months are indicated on the climatic maps.

During the period of peak temperature, it may be an operational requirement that Line Speed be reduced to minimise the risk of incident (refer Operational Constraints).

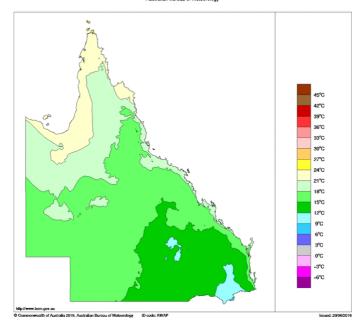




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m Temperature (°C) 1 January to 31 December 2015 Min Au u of Mete log)





### **Description of the Railway**

The track (1067 mm gauge) on the South Western System is mix of 41/30/20 kg rail on timber and some steel sleepers.

#### Axle Loadings

Maximum axle loads used throughout this document have been determined by either the track configuration or the railway structures below rail. Railway structures were designed for axle loads, axle spacings and vehicle lengths that produce bending moments roughly equivalent to the moments for metric Cooper's loadings as follows :-

| Maximum axle load | Metric Cooper's Loading |
|-------------------|-------------------------|
| 26 tal            | M 220                   |
| 20 tal            | M 160                   |
| 15.75 tal         | M 130                   |

With most of this System, the track and structures are rated at a lesser axle load capacity namely, 12.2 tal, 10.62 tal, 8,8 tal and Railmotor.

#### **Basic Track Configuration**

Basic track configuration is detailed on **APPENDIX B - SCHEMATIC LAYOUTS**.

#### Miles to Roma

From Miles, the single track railway continues west to Roma. There are eight crossing loops on this section namely Drillham, Dulacca, Grainco, Yuleba, Wallumbilla, Blythdale, Roma and Roma West.

Track structure is 41 kg/m on steel and timber sleepers at a rate of 1 steel in every 2 sleepers. The maximum allowable axle load is 15.75 tal and available for double header block trains only.

The maximum allowable speed is 70 km/h.

The maximum grade (not compensated for horizontal alignment) that a westbound (Up) train will encounter is 1 in 50 whilst for an eastbound (Down) train the maximum grade is 1 in 50.

Existing minimum nominal horizontal curve radii are as follows :running line 400 m

| Corridor           | Miles to      |
|--------------------|---------------|
| Connaci            | Roma          |
| Line Section Code  | 565, 566      |
| System             | Western       |
| No. of Tracks      | 1             |
| Route Km           | 140.513       |
| Track Km           | 140.513       |
| Electrified        | No            |
| Safeworking System | DTC           |
| Control Centre     | 5th Floor RC1 |

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| Crossing Loops              | No.                        | No.            |  |  |
|-----------------------------|----------------------------|----------------|--|--|
|                             | Location and Length        |                | Drillham (549tp),<br>Dulacca (477tp), Grainco<br>(468m), Yuleba (760tp),<br>Wallumbilla (1330tp),<br>Blythdale (593tp), Roma<br>Station (539m), Roma<br>West (872tp) |  |
| Bridges                     |                            | No. of Bridges | 26   |  |
|                             | Timber                     | No. of Spans   | 320  |  |
|                             |                            | Length (m)     | 1889.3   |  |
|                             |                            | No. of Bridges | 11   |  |
|                             | Steel                      | No. of Spans   | 98   |  |
|                             |                            | Length (m)     | 754.9  |  |
|                             |                            | No. of Bridges | 2  |  |
|                             | Concrete                   | No. of Spans   | 14   |  |
|                             |                            | Length (m)     | 139.2  |  |
| Overbridges (No. of Bridges | 5)                         | Timber         | 0  |  |
|                             |                            | Steel          | 0  |  |
|                             |                            | Concrete       | 1  |  |
| Tunnels                     |                            | Number         | 0  |  |
|                             |                            | Length (m)     | 0  |  |
| Curves (% of total track)   | <80km/h                    |                | 2  |  |
|                             | <60km/h                    |                | 0  |  |
| Level Crossings             | Public                     |                | 40   |  |
|                             | Occupation                 | Occupation     |  |  |
|                             | FI. Lights                 | FI. Lights     |  |  |
|                             | Boom gte                   |                | 0  |  |
| Track Structure             | Rail Mass                  | 41kg           |  |  |
|                             | Jointed                    |                | SWR  |  |
|                             | Sleeper Type               |                | T/S1in2  |  |
| Maximum Allowable Axle Lo   | pad                        | (tal)          | 15.75  |  |
| Route Speed km/h            | Pass                       | (tor)          | 70   |  |
|                             | Frt                        |                | 70   |  |
|                             | Block                      |                | 70   |  |
|                             | Max Container Height - (m) |                |  |  |
| Allowable Gross Tonnes p.a  | a.("000")                  |                | 2.9<br>2,000   |  |

Fencing along this corridor complements adjacent land usage and is at the following standard, poor (60 %), medium (35 %) and good (5 %). Fencing will be maintained at its current standard.

#### Roma West to Charleville (265.4 km)

From Roma, the single track railway continues west to Charleville on the banks of the Warrego River. There are thirteen crossing loops on this section namely Muckadilla, Grainco, Amby, Mitchell, Womalilla, Amboola, Mungallala, Dulbydilla, Morven, Angellala, Sommariva, Arabella and Charleville.

Track structure is predominantly, nominal 30 kg/m rail on steel and timber sleepers at a varying rate of 1 steel in every 2, 3 or 4 sleepers. There is 67 kilometres of 41 kg/m rail.

The maximum allowable axle load is 15.75 tal with double header block trains permitted as far as Muckadilla.

The maximum allowable speed is 70 km/h excepting the following localised restriction:-• 3 0 km/h maximum speed over the Maranoa River bridge at 435.010 km



The maximum grade (not compensated for horizontal alignment) that a westbound (Up) train will encounter is 1 in 50 whilst for an eastbound (Down) train the maximum grade is 1 in 50.

Existing minimum nominal horizontal curve radii are as follows :running line 160 m

Fencing along this corridor complements adjacent land usage and is at the following standard, poor (40 %), medium (50 %) and good (10 %). Fencing will be maintained at its current standard.

| Corridor                             |                        |                | Roma to                                |
|--------------------------------------|------------------------|----------------|--|
|                                      |                        |                | Charleville                            |
| Line Section Code                    |                        |                | 567, 568                               |
| <mark>System</mark><br>No. of Tracks |                        |                | Western                                |
| NO. OF TRACKS                        |                        |                | 1                                      |
|                                      |                        |                |  |
|                                      |                        |                |  |
|                                      |                        |                |  |
|                                      |                        |                |  |
| Route Km                             |                        |                | 265.478                                |
| Track Km                             |                        |                | 265.478                                |
| Electrified                          |                        |                | No                                     |
| Safeworking System                   |                        |                | DTC                                    |
|                                      |                        |                |  |
| Control Centre                       | 1                      |                | 5th Floor RC1                          |
| Crossing Loops                       | No.                    |                | 13                                     |
|                                      | Location and Length    |                | Muckadilla (358m), Grainco             |
|                                      | Location and Length    |                | (474), Amby (345m), Mitchell           |
|                                      |                        |                | (337m), Womallila (364m),              |
|                                      |                        |                | Amboola (780m), Mungallala             |
|                                      |                        |                | (349m), Dulbydilla (354m),             |
|                                      |                        |                | Morven (357m), Angellala               |
|                                      |                        |                | (373m), Sommariva (346m),              |
|                                      |                        |                | Arabella (367m), Charleville<br>(665m) |
|                                      |                        |                | (66511)                                |
|                                      |                        |                |  |
|                                      |                        |                |  |
| Bridges                              |                        | No. of Bridges | 40                                     |
| Bridges                              | Timber                 | No. of Spans   | 49<br>380                              |
|                                      | i ilibei               | Length (m)     | 2234.7                                 |
|                                      |                        | No. of Bridges | 11                                     |
|                                      | Steel                  | No. of Spans   | 73                                     |
|                                      |                        | Length (m)     | 654.4                                  |
|                                      |                        | No. of Bridges | 3                                      |
|                                      | Concrete               | No. of Spans   | 39                                     |
|                                      |                        | Length (m)     | 529                                    |
| Overbridges (No. of Bridges)         |                        | Timber         | 1                                      |
|                                      |                        | Steel          | 0                                      |
|                                      |                        | Concrete       | 0                                      |
| Tunnels                              |                        | Number         | 0                                      |
| Curves (% of total track)            | <80km/h                | Length (m)     | 5                                      |
|                                      | <60km/h                |                | 1                                      |
| Level Crossings                      | Public                 |                | 32                                     |
|                                      | Occupation             | 23             |  |
|                                      | Fl. Lights             | 6              |  |
|                                      | Boom gte               |                | 0                                      |
| Track Structure                      | Rail Mass              |                | 67km of 41kg/m, remaining is           |
|                                      | Jointed                | 30kg<br>SWR/B  |  |
|                                      | Sleeper Type           |                |  |
|                                      |                        |                | T/S1in2, T/S1in3, T/S1in4              |
|                                      |                        |                |  |
| Maximum Allowable Axle Loa           | d                      | (tal)          | 15.75                                  |
| Route Speed km/h                     | Pass                   |                | 70                                     |
|                                      | Frt                    |                | 70                                     |
|                                      | Block                  |                | 70                                     |
|                                      | Max Container Height - | (m)            | 2.9                                    |
| Allowable Gross Tonnes p.a.(         | '000")                 |                | 1,000                                  |



#### Charleville to Cunnamulla (194.9 km)

From Charleville, the single track railway heads south to Westgate (junction station for the line to Quilpie) then on to Cunnamulla on the banks of the Warrego River. There are three crossing loops on this section Wyandra, Wyandra Cattle and Cunnamulla.

Track structure between Charleville and Westgate is 30 kg/m on steel and timber sleepers at a rate of 1 steel in every 3 sleeper. The section between Westgate and Cunnamulla is a combination of nominal 30 kg/m and 20 kg/m rail on timber sleepers.

The maximum allowable axle load is 10.62 tal.

The maximum allowable speed is 60 km/h to 697.000 km then 50 km/h into Cunnamulla.

The maximum grade (not compensated for horizontal alignment) that a southbound (Up) train will encounter is 1 in 100 whilst for a northbound (Down) train the maximum grade is 1 in 100.

Existing minimum nominal horizontal curve radii are as follows:running line 400 m

40% of this corridor is fenced and complements adjacent land usage at the following standard, poor (12 %), medium (25 %) and good (63 %). Fencing will be maintained at its current standard.

| Corridor                                |                     |                 | Charleville to | Westgate to            |
|---|---------------------|-----------------|----------------|------------------------|
| Corridor                                |                     |                 | Westgate       | Cunnamulla             |
| Line Section Code                       |                     |                 | 713            | 714, 715               |
| System                                  |                     |                 | Western        | Western                |
| No. of Tracks                           |                     |                 | 1              | 1                      |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
| Route Km                                |                     |                 | 20.56          | 175                    |
| Track Km                                |                     |                 | 20.56          | 175                    |
| Electrified                             |                     |                 | No             | No                     |
| Safeworking System                      |                     |                 | DTC            | DTC                    |
| Comtrad Comtra                          |                     |                 | Eth Eleas DO4  |                        |
| Control Centre<br>Crossing Loops        | No.                 |                 | 5th Floor RC1  | 5th Floor RC1          |
| crossing Loops                          | 140.                |                 | 0              | Wyandra (164m),        |
|   | Location and Length |                 |                | Wyandra Cattle (389m), |
|   | Looddon and Longin  |                 |                | Cunnamulla (314)       |
|   |                     |                 |                | Curinamula (314)       |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
|   |                     |                 |                |                        |
| Bridges                                 |                     | No. of Bridges  | 0              | 2                      |
| Diluges                                 | Timber              | No. of Spans    | 0              |                        |
|   |                     | Length (m)      | 0              |                        |
|   |                     | No. of Bridges  | 3              |                        |
|   | Steel               | No. of Spans    | 5              |                        |
|   |                     | Length (m)      | 29             |                        |
|   |                     | No. of Bridges  | 0              |                        |
|   | Concrete            | No. of Spans    | -              |                        |
|   |                     | Length (m)      | 0              | 0                      |
|   |                     |                 |                |                        |
| Overbridges (No. of Bridges)            |                     | Timber          |                |                        |
| Overbridges (No. of Bridges)            |                     | Timber<br>Steel |                |                        |
| Overbridges (No. of Bridges)            |                     |                 |                |                        |
| Overbridges (No. of Bridges)<br>Tunnels |                     | Steel           | 0              | 0                      |



| Curves (% of total track)  | <80km/h                   |         | 0       | 0       |
|----------------------------|---------------------------|---------|---------|---------|
|                            | <60km/h                   |         | 0       | 0       |
| Level Crossings            | Public                    |         | 3       | 16      |
|                            | Occupation                |         | 1       | 34      |
|                            | FI. Lights                |         | 0       | 0       |
|                            | Boom gte                  |         | 0       | 0       |
| Track Structure            | Rail Mass                 |         | 30kg    | 30/20kg |
|                            | Jointed                   | Jointed |         | В       |
|                            | Sleeper Type              |         | T/S1in3 | Т       |
| Maximum Allowable Axle Lo  | oad                       | (tal)   | 10.62   | 10.62   |
| Route Speed km/h           | Pass                      |         |         | 60 /50  |
|                            | Frt                       |         | 60      | 60 /50  |
|                            | Block                     |         | 60      | 60 /50  |
|                            | Max Container Height - (n | 1)      | 2.65    | 2.65    |
| Allowable Gross Tonnes p.a | a.("000")                 |         | 500     | 100     |

#### Westgate to Quilpie (200.7 km)

From Westgate on the Charleville to Cunnamulla section, the single track railway heads west to Quilpie on the banks of the Bulloo River, in the process crossing the Warrego River 8 km outbound. There are five crossing loops on this section namely Wanko, Coothalla, Cheepie, Coolbinga and Quilpie.

Track structure is nominal 30 / 21 kg/m rail on timber sleepers.

The maximum allowable axle load is 10.62 tal.

The maximum allowable speed is 60 km/h with the speed of coupled locomotives restricted to 40 km/h.

The maximum grade (not compensated for horizontal alignment) that a westbound (Up) train will encounter is 1 in 44 whilst for an eastbound (Down) train the maximum grade is 1 in 44 (Warrego River).

Existing minimum nominal horizontal curve radii are as follows:running line 160 m

| Corridor           |     | Westgate to   |
|--------------------|-----|---------------|
|                    |     | Quilpie       |
| Line Section Code  |     | 716, 717, 121 |
| System             |     | Western       |
| No. of Tracks      |     | 1             |
| Route Km           |     | 201.08        |
| Track Km           |     | 201.25        |
| Electrified        |     | No            |
| Safeworking System |     | DTC           |
| Control Centre     |     | 5th Floor RC1 |
| Crossing Loops     | No. | 5             |

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|                                     | Location and Length    |                | Wanko (217m),<br>Coothalla (356m),<br>Cooladdi (144), Cheepie<br>(360m), Coolbinga<br>(360m), Quilpie (431m) |  |
|-------------------------------------|------------------------|----------------|--|--|
| Bridges                             |                        | No. of Bridges | 45   |  |
|                                     | Timber                 | No. of Spans   | 405  |  |
|                                     |                        | Length (m)     | 1919.6   |  |
|                                     |                        | No. of Bridges | 0  |  |
|                                     | Steel                  | No. of Spans   | 3  |  |
|                                     |                        | Length (m)     | 40   |  |
|                                     |                        | No. of Bridges | 0  |  |
|                                     | Concrete               | No. of Spans   |  |  |
|                                     |                        | Length (m)     | 0  |  |
| Overbridges (No. of Bridges) Timber |                        |                |  |  |
|                                     |                        | Steel          |  |  |
|                                     |                        | Concrete       |  |  |
| Tunnels                             |                        | Number         | 0  |  |
|                                     |                        | Length (m)     | 0<br>5   |  |
| Curves (% of total track)           |                        | <80km/h        |  |  |
|                                     | <60km/h                |                | 0.1  |  |
| Level Crossings                     |                        | Public         |  |  |
|                                     | Occupation             |                | 41   |  |
|                                     | FI. Lights             | 0              |  |  |
|                                     |                        | Boom gte       |  |  |
| Track Structure                     | Rail Mass              |                | 30/20kg  |  |
|                                     | Jointed                | Jointed        |  |  |
|                                     | Sleeper Type           |                | Т  |  |
| Maximum Allowable Axle Lo           | bad                    | (tal)          | 10.62  |  |
| Route Speed km/h                    | Pass                   |                | 60   |  |
|                                     | Frt                    |                | 60   |  |
|                                     | Block                  |                |  |  |
|                                     | Max Container Height - | (m)            | 2.65   |  |
| Allowable Gross Tonnes p.a          | a.("000")              | . /            | 500  |  |

Fencing along this corridor complements adjacent land usage and is at the following standard, poor (25 %), medium (70. %) and good (5 %). Fencing will be maintained at its current standard.

#### Miles to Wandoan (69.4 km)

A single track railway heads north north west from Miles to Wandoan. There are three crossing loops on this section namely Wubagul, Whitley's Siding and Wandoan.

Track structure is roughly 50% 41 kg/m rail and 50% 30 kg/m rail (SWR / B) on steel and timber sleepers at a varying rate of 1 steel in every 3 or 4 sleepers.



| Corridor                     |                        |                | Miles to                |
|------------------------------|------------------------|----------------|-------------------------|
|                              |                        |                | Wandoan                 |
| Line Section Code            |                        |                | 564                     |
| System<br>No. of Tracks      |                        |                | Western                 |
| NO. OF TRACKS                |                        |                | 1                       |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
| Route Km                     |                        |                | 69.65                   |
| Track Km                     |                        |                | 69.65                   |
| Electrified                  |                        |                | No                      |
| Safeworking System           |                        |                | DTC                     |
|                              |                        |                |                         |
| Control Centre               |                        |                | 5th Floor RC1           |
| Crossing Loops               | No.                    |                | 3                       |
|                              |                        |                | Wubagul (360m),         |
|                              | Location and Length    |                | Whitleys Siding (350m), |
|                              |                        |                | Wandoan Loop (572m),    |
|                              |                        |                | Wandoan Main (568m)     |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
|                              |                        |                |                         |
| Bridges                      |                        | No. of Bridges | 52                      |
|                              | Timber                 | No. of Spans   | 280                     |
|                              |                        | Length (m)     | 1481.3                  |
|                              |                        | No. of Bridges | C                       |
|                              | Steel                  | No. of Spans   | 7                       |
|                              |                        | Length (m)     | 66.5                    |
|                              |                        | No. of Bridges | C                       |
|                              | Concrete               | No. of Spans   | C                       |
|                              |                        | Length (m)     | 0                       |
| Overbridges (No. of Bridges) |                        | Timber         | C                       |
|                              |                        | Steel          | 0                       |
|                              |                        | Concrete       | C                       |
| Tunnels                      |                        | Number         | 0                       |
|                              |                        | Length (m)     | 0                       |
| Curves (% of total track)    | <80km/h                |                | 15                      |
|                              | <60km/h                |                | 4                       |
| Level Crossings              | Public                 |                | 16                      |
|                              | Occupation             | 18             |                         |
|                              | Fl. Lights             | 3              |                         |
| Transla Otamontana           | Boom gte               |                | ()<br>()                |
| Track Structure              | Rail Mass              |                | 33km of 30kg, 37km of   |
|                              | La inte d              |                | 41kg                    |
|                              | Jointed                |                | B/SWR                   |
| Sleeper Type                 |                        |                | 15.3km T/S1in3, 50.8km  |
|                              |                        | T/S1in4, T     |                         |
|                              |                        |                |                         |
| Maximum Allowable Axle Loa   | 4                      | (10)           | AF 71                   |
| Maximum Allowable Axle Load  | 1                      | (tal)          | 15.75                   |
| Koute Speed km/n             | Pass                   |                | 30                      |
|                              | Frt                    |                | 30                      |
|                              | Block                  | (m)            | 30                      |
| Allewable Cress Townson (    | Max Container Height - | (11)           | 2.65                    |
| Allowable Gross Tonnes p.a.( | ······)                |                | 1,000                   |

The maximum allowable axle load is 15.75 tal.

The maximum allowable speed is 30km/h with the branch available for double header block trains.

The maximum grade (not compensated for horizontal alignment) that a northbound (Up) train will encounter is 1 in 50 whilst for a southbound (Down) train the maximum grade is 1 in 50.

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Existing minimum nominal horizontal curve radii are as follows :running line 200 m

Fencing along this corridor complements adjacent land usage and is at the following standard, poor (15 %), medium (70 %) and good (15 %). Fencing will be maintained at its current standard.

#### Tycanba to Jandowae (48.5 km)

This single track railway has its junction with the Dalby to Miles railway at Tycanba (approx. 3km west of Dalby) and heads north north west to Jandowae, stopping short of Jandowae at 47.5 km. There are no crossing loops on this section.

Track structure is nominal 30 kg/m rail on timber sleepers. The maximum allowable axle load is 15.75 tal.

Available for double header block trains, but not triple header block trains. The maximum allowable speed is 30 km/h.

The maximum grade (not compensated for horizontal alignment) that a northbound (Up) train will encounter is 1 in 73 whilst for a southbound (Down) train the maximum grade is 1 in 83.

Existing minimum nominal horizontal curve radii are as follows :-

running line

500 m

This railway shares a corridor with road and is substantially unfenced.

| aliway shares a co |                  |                | y unicriccu.  |
|--------------------|------------------|----------------|---------------|
| Corridor           |                  |                | Tycanba to    |
|                    |                  |                | Jandowae      |
| Line Section Code  |                  |                | 561           |
| System             |                  |                | Western       |
| No. of Tracks      |                  |                |               |
| Route Km           |                  |                | 45.584        |
| Track Km           |                  |                | 45.584        |
| Electrified        |                  |                | No            |
| Safeworking System |                  |                | DTC           |
| Control Centre     |                  |                | 5th Floor RC1 |
| Crossing Loops     | No.              |                | (             |
| <b>D</b> : 1       | Location and Ler |                |               |
| Bridges            |                  | No. of Bridges |               |
|                    | Timber           | No. of Spans   | 22            |
|                    |                  | Length (m)     | 101.7         |
|                    | Steel            | No. of Bridges | (             |
|                    | Steel            | No. of Spans   | (             |
|                    |                  | Length (m)     | (             |
| Concrete           |                  | No. of Bridges | (             |
|                    |                  | No. of Spans   | (             |
|                    |                  | Length (m)     | (             |

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| Overbridges (No. of Bridges) |                        | Timber     | (     |
|------------------------------|------------------------|------------|-------|
|                              |                        | Steel      | (     |
|                              |                        | Concrete   | (     |
| Tunnels                      |                        | Number     | C     |
|                              |                        | Length (m) | C     |
| Curves (% of total track)    | <80km/h                |            | 1     |
|                              | <60km/h                |            | (     |
| Level Crossings              | Public                 |            | 18    |
|                              | Occupation             |            | 16    |
|                              | FI. Lights             |            | (     |
|                              | Boom gte               |            | (     |
| Track Structure              | Rail Mass              |            | 30kç  |
|                              | Jointed                |            | E     |
|                              | Sleeper Type           |            | T     |
| Maximum Allowable Axle L     | oad                    | (tal)      | 15.75 |
| Route Speed km/h             | Pass                   |            | 30    |
|                              | Frt                    |            | 30    |
|                              | Block                  |            | 30    |
|                              | Max Container Height - | (m)        | 2.65  |
| Allowable Gross Tonnes p.    | a.("000")              |            | 300   |

#### Dalby to Glenmorgan (165.4 km)

From Dalby this single track railway heads west towards the Surat basin and Glenmorgan. There are seven passing loops on this section namely Yumborra, Kupunn, Kumbarilla, Tara, The Gums, Meandarra and Glenmorgan.

Track structure is combination of 41 kg/m and nominal 30 kg/m rail on timber and steel sleepers at a rate of 1 steel in every 4 sleepers.

The maximum allowable axle load from Dalby to Meandarra is 15.75 tal and from Meandarra to Glenmorgan is 10.62 tal.

The maximum allowable speed from Dalby to Ducklo is 50 km/h, Ducklo to Kumbarilla is 60 km/h, from Kumbarilla to Tara is 70 km/h, from Tara to Meandarra is 40 km/h and Meandarra to Glenmorgan is 30km/k. Double header block trains may run at the maximum line speed with triple header block trains permitted between Dalby and Meandarra at 10 km/h less than the maximum line speed. No block trains are permitted between Meandarra and Glenmorgan.

The maximum grade (not compensated for horizontal alignment) that a westbound (Up) train will encounter is 1 in 44 whilst for an eastbound (Down) train the maximum grade is 1 in 44.

Existing minimum nominal horizontal curve radii are as follows :running line 400 m

| Corridor           | Dalby to<br>Meandarra | Meandarra to<br>Glenmorgan |
|--------------------|-----------------------|----------------------------|
| Line Section Code  | 559                   | 345                        |
| System             | Western               | Western                    |
| No. of Tracks      |                       | 1                          |
| Route Km           | 143.61                | 22.21                      |
| Track Km           | 143.61                | 22.21                      |
| Electrified        | No                    | No                         |
| Safeworking System | DTC                   | DTC                        |



| Control Centre  |                      |                            | 5th Floor RC1  | 5th Floor RC1     |
|---|----------------------|----------------------------|----------------|-------------------|
| Crossing Loops  | No.                  | No.<br>Location and Length |                | ;<br>;            |
|   | Location and Length  |                            |                | Glenmorgan (227m) |
| Bridges   |                      | No. of Bridges             | 31             | Ę                 |
| _   | Timber               | No. of Spans               | 177            | 32                |
|   |                      | Length (m)                 | 860            | ) 141.7           |
|   |                      | No. of Bridges             | 0              | ) (               |
|   | Steel                | No. of Spans               | 0              | ) (               |
|   |                      | Length (m)                 | 0              |                   |
|   |                      | No. of Bridges             | 0              |                   |
| Concrete         No. of Spans           Length (m)         Length (m)           Overbridges (No. of Bridges)         Timber |                      |                            | 0              |                   |
|   |                      | <b>U</b> ( )               | 0              |                   |
|   |                      | 0                          |                |                   |
|   |                      | Steel                      | 0              |                   |
|   |                      | Concrete                   | 0              |                   |
| Tunnels   |                      | Number                     | 0              |                   |
| Curves (% of total track)   | <80km/h              | Length (m)                 | 1              |                   |
| Curves (% or total track)   | <60km/h              |                            |                | ) (               |
| Level Crossings   | Public               |                            | 37             |                   |
| Cever Crossings Public Occupation   |                      | 51                         |                |                   |
|   | Fl. Lights           |                            | 4              |                   |
|   | Boom gte             |                            | 0              | -                 |
| Track Structure   | Rail Mass            |                            | 41/30kg        | 41/30kg           |
|   | Jointed              |                            | SWR            | SWR/E             |
| Sleeper Type  |                      |                            | T, T/S1in4     | T, T/S1in4        |
| Maximum Allowable Axle Lo   | pad                  | (tal)                      | 15.75          |                   |
| Route Speed km/h  | Pass                 |                            | 50 /60 /70 /40 |                   |
|   | Frt                  |                            | 50 /60 /70 /40 |                   |
|   | Block                |                            | 50 /60 /70 /40 | i .               |
|   | Max Container Height | - (m)                      | 2.65           |                   |
| Allowable Gross Tonnes p.a  | a.("000")            |                            | 1,000          | 1,000             |

This corridor is fenced between Dalby and Meandarra with the fencing complementing adjacent land usage and at the following standard, poor (15 %), medium (10 %) and good (75 %). Fencing will be maintained at its current standard.

# **Description of the Track**

The track on this system is a mix of 47 kg/m, 41 kg/m, 30 kg/m and 20 kg/m rail with the associated sleeper types namely steel and timber on crushed rock and sand ballast. The steel sleepers generally are installed at a rate of 1 in 4 sleepers. The rails are a combination of short, short welded (SWR) and long welded (LWR) all bolted.

Speeds through the curved leg of turnouts are governed by the angle of that turnout ie.

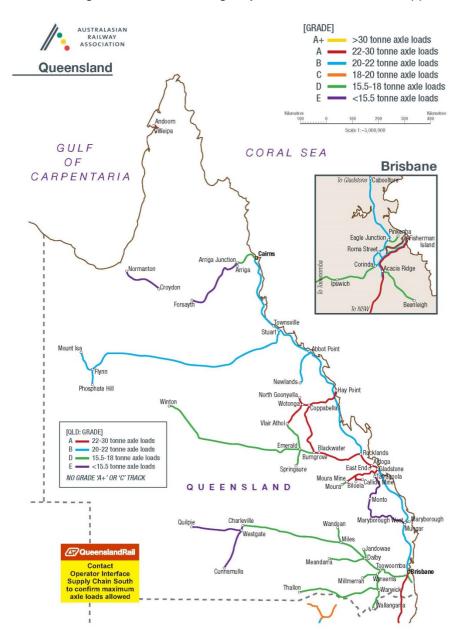
| 1 in 12 | 25 km/h |
|---------|---------|
| 1 in 16 | 50 km/h |
| 1 in 25 | 80 km/h |

In general, curves (with the exception of turnout curves) are transitioned. Issue 3.0 – October 2016

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Track Data and Grade Diagrams for the following major route are included in Appendix E.



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# **Operational Constraints - Infrastructure**

During the summer months of high temperatures, hot weather precautions for track stability are observed to reduce the risk of incident in accordance with Safety Management Standard **MD-10-143 Hot Weather Precautions for Track Stability**, namely :-

| Air Temperature 38°C and above |   | On timber sleepered track, restrict trains to 60 km/h (#)    |
|--------------------------------|---|--|
|                                |   | On concrete sleepered track, restrict all trains to 120 km/h |
| Air Temperature 40°C and above | - | On timber sleepered track, restrict trains to 40 km/h (#)    |
|                                |   | On concrete sleepered track, restrict all trains to 60 km/h  |

(#) Steel sleepered track and timber sleepered track with interspersed steel sleepers shall be regarded as equivalent to timber sleepered track for track stability.

Speed restrictions may also be put in place after maintenance activities in accordance with Queensland Rail Safety Standards.

The extent of restriction will depend upon the type of maintenance activity and risk of track misalignments.

Force Majeure Events will also see the imposition of speed restrictions, the extent and severity of the restrictions being dependent on the event.

# **Trackside Detection Equipment**

There is no Trackside Detection Equipment in this system.

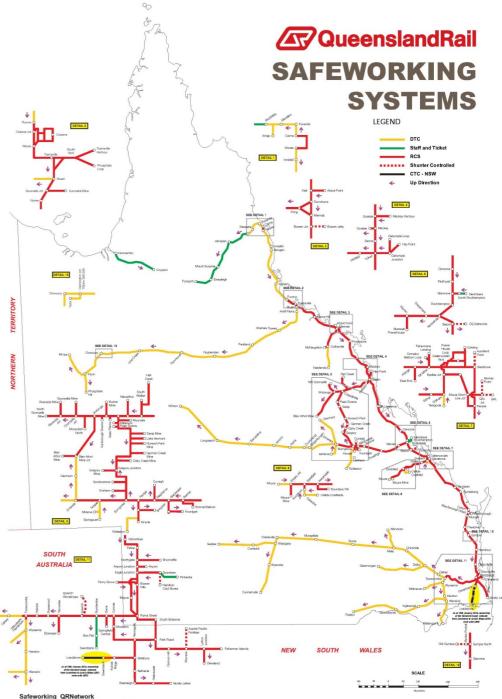
# Weighbridges

There are no weighbridges on this System as described herein.

### **Operational Systems & Train Control**

The Western System is operated by Direct Traffic Control (DTC) with train movements controlled from Brisbane.

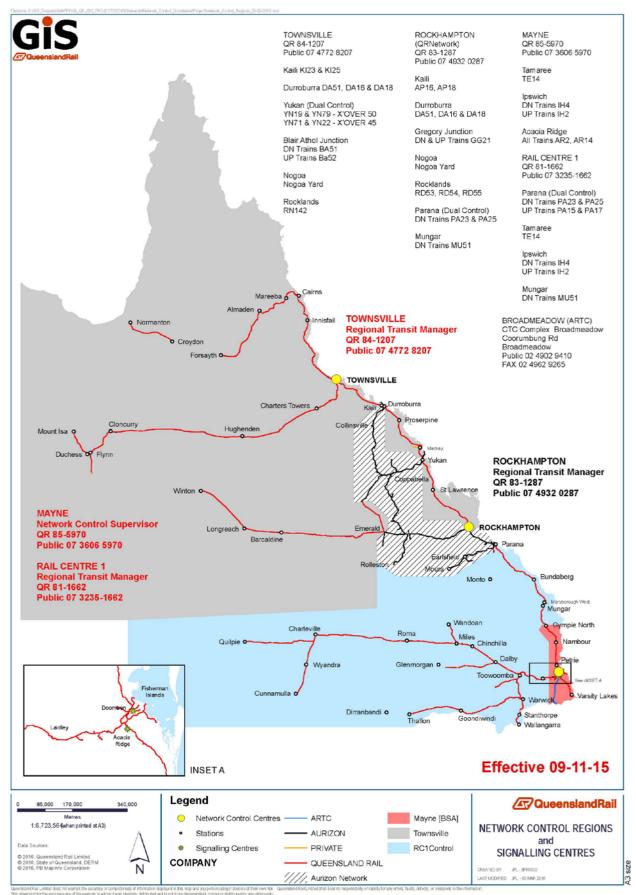
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Safeworking\_QRNetwork Drawing Modified - December 14 - Ebenezer - RCS)

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# **Information Systems**

ViziRail is the key software system designed as a tool for use in integrated scheduling, possession planning, monitoring and reporting on the Queensland Rail network.

Functionality includes modules:

- Train notices
- Actual train running (ATR)
- Incidents
- Train consists (Train Builder)
- Speed restrictions
- Rollingstock allocations
- Rollingstock maintenance
- Fresh turnouts
- Planning graphs
- Scheduling enhancements
- Possession enhancements
- OTIS (Operational to Information Systems) which converts train steps to actual arrival and departure train information.

### **Operational Constraints - Rollingstock**

All new rollingstock requires to be accepted via the Rollingstock Authorisation Process, rollingstock which conforms with Drawing Nos. 2236 may operate in an unrestricted manner on main lines.

For rollingstock to conform with Drawing Nos. 2236 the static rollingstock profile must be within the diagram, refer **APPENDIX H - Rollingstock Gauges**. As well as the static component, dynamic effects need to be considered and these effects are contained within Rollingstock Interface Standards.

Rollingstock not conforming to these drawings may be accepted via the Rollingstock Authorisation Process and may be operated subject to constraints / limitations imposed as a result of the Authorisation Process.

Potential railway operators should ensure that they have the latest revision of these drawings before the planning and construction of rollingstock.

### Communications

Communications on the Western System between Driver and Controller is via a UHF radio system (Train Control Radio - TCR) utilising a number of Queensland Rail channels and frequencies. Transceivers "auto" switch channels to suit geographical location. Frequency specification and coverage details are available as part of the "Access Enquiry Process". Control phones are located at Staff Stations only.

Access to the Maintenance Supervisory Radio System (MSR) can be gained by using Queensland Rail telephone extensions depending on location or UHF radio system utilising Queensland Rail channels.

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In addition, all current locomotives (including Multiple Units and Miscellaneous Vehicles such as Rail Motors) carry and all units new to the system will be required to carry a UHF radio operating on Queensland Rail Channel 1. This provides on-board and wayside communications including end to end, train to train and train to track gangs over a distance on average of 8- 10 km.

Communications on board locomotives must conform to **Queensland Rail's Safety and** Security Standard MD-10-86 - Mobile Voice Radio Communications Systems.

# **Sectional Running Times**

The sectional running times, expressed as minutes, for various types of trains currently operating on the system are contained in **APPENDIX F**.

The sectional running times are "Pass to Pass", "Pass to Stop", "Start to Pass" and "Start to Stop" and vary depending on the characteristics of the trains.

Proposed train configurations would need to be confirmed by the relevant operator against the infrastructure constraints to determine if the sectional running times can be achieved. If the sectional running times cannot be achieved then different arrangements, including for access charges, may need to be negotiated as part of the access agreement negotiations.

Changes to the sectional running times for the system are also possible over time. Any changes would be confirmed as part of the access agreement negotiations.

### **Incident Recovery Time and Management**

Historically it is anticipated that on the Western System a minor incident could result in disruption to services for 6 hours and a major incident for 2 days.

Incident recovery is dependent on the nature, severity and location of each unique incident that may occur on this system.

As the western part of this System forms part of the Channel Country, with its intricate river networks, this region is prone to flooding for lengthy periods as a result of summer rains in central Queensland.

To enable quick response in case of emergency, latitudes and longitudes of passing loops where the general direction of the railway alters, are detailed below:

| Location | Latitude  | Longitude  |
|----------|-----------|------------|
|          |           |            |
|          |           |            |
| Miles    | 26° 38' S | 150° 11' E |
| Roma     | 26° 33' S | 148° 47' E |
| Mitchell | 26° 28' S | 147° 58' E |



| Morven      | 26° 24' S | 147° 06' E |
|-------------|-----------|------------|
| Charleville | 26° 23' S | 146° 15' E |
| Westgate    | 26° 34' S | 146° 11' E |
| Cooladdi    | 26° 37' S | 145° 27' E |
| Quilpie     | 26° 35' S | 144° 16' E |
| Wyandra     | 27° 14' S | 145° 58' E |
| Cunnamulla  | 28° 03' S | 145° 40' E |
| Tara        | 27° 15' S | 150° 27' E |
| Glenmorgan  | 27° 15' S | 149° 40' E |
| Jandowae    | 26° 45' S | 151° 06' E |
| Wandoan     | 26° 03' S | 149° 59' E |

# Rail / Road Interfaces

Operators on the Western System will encounter 338 Rail / Road Interfaces (see Appendix C for details) categorised as follows:-

| Public (Active with Flashing Light/Boom Gate Protection) |  |
|--|--|
| Public (with Passive Protection - Signs)                 |  |
| Occupation (Private Access)                              |  |

| <mark>46</mark> |
|-----------------|
| 138             |
| 154             |

# **Rail Operations and the Environment**

All railway operators are required to comply with all relevant State, Federal and Local Legislation and Laws, current at the time, relating to the management and protection of the Environment.

Queensland Rail currently has a number of licences and/or approvals for activities undertaken at either Queensland Rail facilities or on the Queensland Rail corridor. Queensland Rail's licences and approvals fall under two main areas:

#### 1. Fixed Locations;

Queensland Rail has a number of licences for activities managed by its operational Business Groups in particular locations, such as refuelling locations.

#### 2. Itinerant or Varied Locations;

Queensland Rail also has a number of licences for activities that occur at more than one location, such as maintenance activities.

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Railway operators will need to ascertain with the Department of Environment and Heritage Protection or Other Regulatory Body their responsibilities in regard to obtaining an Environmental Authority(ies) for the type of operation proposed.

Copies of all Environmental Authorities administered by the Department within Queensland are available upon request from the Department. The Department of Environment and Heritage Protection contact details can be found via the web at

https://www.ehp.qld.gov.au/

# **Environmental Noise**

The Environmental Protection (Noise) Policy (EPP Noise) recognises a railway as a beneficial asset, which is necessary for the community's environmental, social and economic well-being. The Environmental Protection (Noise) Policy is available via the Office of the Queensland Parliamentary Council website at

http://www.legislation.qld.gov.au/OQPChome.htm

The EPP Noise nominates "planning levels" for railway noise which may be used as a guide in deciding a reasonable noise level for the activity. The EPP Noise recognises, however, those levels may not be appropriate for an existing railway. It envisages that it may be reasonable to apply the levels only in the long term to allow time to progressively reduce any significantly adverse effects on the environmental values from its operation. The long term planning levels are:

| L <sub>&amp;a</sub> (24 hour) | 65dBA |
|-------------------------------|-------|
| L <sub>Amax</sub>             | 87dBA |

They are to be assessed one (1) metre in front of the most exposed part of the building facade of an affected noise sensitive place.

### Noise Management

While noise from the operation of a railway is exempt from environmental nuisance provisions under the Queensland Environment Protection Act 1994, Queensland Rail strives to manage noise associated with both its rail operations and network wherever reasonable and practical.

As the rail manager, Queensland Rail works closely with customers regarding environmental issues, and provides feedback to Rail Operators to allow them to investigate and address as applicable, noise related issues that may be associated with their locomotives and wagons.

There are various sources of noise from a railway and to aid efficient and effective noise reduction, a range of noise management measures are utilised by Queensland Rail. These are detailed at:



http://www.queenslandrail.com.au/inthecommunity/environment/noisemanagement

# Wheel Squeal & Flanging

Wheel Squeal is caused by friction forces between the top of rail and wheel interface. Whereas, flanging noise is predominantly caused by friction forces between the side of rail and wheel interface. Continuous or sustained wheel squeal produced primarily on the low rail side, is distinct from discontinuous "flanging noise" that is produced on the high rail side. Continuous wheel squeal is of a high level, and Queensland Rail's experience is that it may cause significant community reaction, while flanging noise is of a lower level and is more accepted by the community.

Generally, tighter radius curves (i.e. under 300 metre radius) when associated with a number of rollingstock factors that promote wheel squeal, may result in squeal being produced. Rollingstock factors that may promote wheel squeal include:

- Higher wheel hardness
- Stiff primary suspensions
- High centre plate friction
- Worn wheel treads
- Misaligned axles
- Unmatched wheel tread diameters, and
- Incorrectly adjusted sidebearers

### **Noise Complaints**

Queensland Rail is corporately committed to act towards its neighbours in a considerable and reasonable manner. This good neighbour commitment assumes a reasonable degree of tolerance from neighbours and a commitment by Queensland Rail to take action where appropriate.

Where Queensland Rail receives complaints about noise from railway activities for which Queensland Rail may be responsible, Queensland Rail responds to those complaints and maintains records of those complaints in accordance with its Environmental Management System (EMS).

Where available, generic data will be supplied on request to a third party operator who is proposing operations within a defined network. That data will indicate those areas where Queensland Rail has received prior complaints relating to its train operations. It will be made available when a third party operator is undertaking the development of its Environmental Investigation and Risk Management Report as part of its Access Agreement conditions.

### **Third Party Requirements**

Any railway operator obtaining access to Queensland Rail's Network shall be required to commission an environmental investigation of the proposed operations. This investigation will be conducted by a suitably qualified person, reasonably acceptable to both parties.

In response to the findings of such an investigation, the operator shall produce an Environmental Investigation and Risk Management Report that identifies the risks of Environmental Harm associated with the operation and provides proposed controls to address the risks. This shall be reviewed by, and agreed with, Queensland Rail.

In addition, the operator shall have in place an EMS, which, amongst other things, has regard for the issues, risk and control measures identified in the Environmental Investigation and Risk Management Report. Further details on requirements for environmental issues can be found in Queensland Rail's Access Undertaking.

Queensland Rail has determined that it holds no EMS documentation that, without disclosure to a third party operator, would either:

- Compromise or restrict a third party's operations or increase or place at risk the environmental performance of the third party operator or itself, and
- Limit or restrict the abilities of a third party operator to develop such documentation that would not be reasonably expected of the operator to develop on its own behalf, commensurate with the size and subsequent environmental risks of the proposed operations and the organisational resources available to it, to undertake such operations.

Any EMS documentation (wholly or partially) identified as specifically relating to the control of corridor infrastructure (below rail) environmental issues, will be made available to the operator to assist in formulating appropriate and consistent operational (above rail) controls within their Environmental Investigation and Risk Management Report and EMS.

#### Maximum Train Length

The maximum length of trains is determined by:

- requirements for crossing/passing other trains
- requirements for braking performance of the train
- capacity of the route
- drawgear capacity
- train handling
- requirements for road/pedestrian access across the track

Where it is necessary for a train to cross, pass or be passed by another train, the maximum train length allowable shall be such that the comparison train length (including allowance for stretching and train handling) is not longer than the crossing loop length.

Variations of train length for a particular train configuration is possible and would need to be negotiated as part of access agreement negotiations.

Variations of train length for a particular train configuration are possible and would need to be negotiated as part of access agreement negotiations.

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# **Rollingstock Braking Rate**

The signalling system and flashing light protection at rail / road interfaces has been designed to cater for the variety of trains that currently use this system.

Signal design parameters and train braking characteristics will be compared during the development of the Interface Risk Management Plan.

### **Future Infrastructure Improvements**

No major infrastructure improvements identified

### **Infrastructure Management and Access**

**APPENDIX B - SCHEMATIC LAYOUT** is colour coded to indicate Management of Infrastructure and Access.

Third party access to non-Queensland Rail managed infrastructure is by commercial arrangement with the relevant party.

The initial point of contact for Queensland Rail managed below rail assets is:

General Manager Access Revenue

Level 9 | 305 Edward Street Brisbane Qld 4001 Telephone 61 07 3072 1145 Facsimile 61 07 3072 8248 Email: aarf@qr.com.au



### **APPENDIX A**

#### Definitions (Statewide)

#### Access Agreement

Access Agreement means an agreement between Queensland Rail and an Access Holder for the provision of Access.

#### Access Undertaking

A document approved by the Queensland Competition Authority (QCA) in accordance with the QCA Act 1997 (Q) that sets out principles for negotiating access to Queensland Rail's declared services.

#### Accreditation

Accreditation in accordance with part 4, Chapter 6 of the Transport Infrastructure Act 1994 (Qld) and "Accredited" has a similar meaning.

#### ATP (Automatic Train Protection)

Automatic Train Protection is a computer controlled system designed to make sure the train

- does not exceed the current speed limit
- does not exceed the limit of authority generated by the interlocking (and usually indicated by a signal at STOP)
- does not make unreasonable train movements during shunting, when stationary, or at startup

#### AWS (Automatic Warning System)

Automatic Warning System is designed to

- provide an in-cab visible and audible indication of the aspect displayed in the next signal
- prompt and warn the train driver of a RESTRICTED signal aspect displayed in the next signal
- stop the train if the driver fails to acknowledge the AWS alarm of a RESTRICTED signal aspect

#### Axle Counters

At some locations in Remote Controlled Signalling (RCS) Territory an axle counter system has been provided to detect occupancy of a section of track.

An axle counter at each end of a section determines whether an axle is entering or leaving the section and counts the number of axles passing the counter in each direction. By keeping an accurate count of axles into the section, then the number of axles out of the section, the system can determine if the section is occupied or not.



#### Block Train

A train consisting entirely of similar classes of wagons of axle loads over 12.2 tonnes marshalled together for a certain class of traffic. The definition is also extended to cover trains in which 12 or more such wagons loaded to more than 12.2 tonnes gross per axle are included within a length of 315 metres or less of the train.

#### Crossing Loop Length

The maximum length in metres of the train which can be accommodated in the loop to allow normal operation of the signalling systems for crossing or passing movements.

#### Daily Train Plan (DTP)

Collectively, the scheduled times for all Train Services operating on Queensland Rail's Rail Infrastructure and any Planned Possession on a particular day.

#### **Declared Services**

Services declared as available for access by third party operators in accordance with the QCA Act 1997 (Q).

#### Declared Infrastructure

Infrastructure declared as available for access by third party operators in accordance with the QCA Act 1997 (Q).

#### **Design Neutral Temperature**

The rail temperature at which the track is designed to be stress free as defined in Queensland Rail's

Civil Engineering Publication #26 "Rail Stressing Manual".

#### Direct Traffic Control (DTC)

Direct Traffic Control (DTC) is an absolute block safeworking system used to control the movement of trains in non-signalled territory.

Central to DTC is an on-board DTC computer which displays authorities stored in its database. The relevant authority is activated by the train crew following an exchange of codes between the crew and the controller. Codes are exchanged verbally using the train control radio.

The procedures governing the operation of DTC are detailed in Queensland Rail's Standard MD-10-113 "Direct Traffic Control Manual".

#### Dragging Equipment Detectors (DED)

A mechanism positioned on sections of track to detect any dragging equipment on train.



#### **Dragging Equipment Detectors Alarm (DED Alarm)**

Part of the Queensland Rail System which advises the Train Controller either by a computer prompt message that a D.E.D. has been activated and the train driver by a recorded voice message.

#### Electromagnetic Compatibility (EMC)

The ability of an equipment or system to function satisfactorily in its electromagnetic environment without introducing intolerable electromagnetic disturbances to anything in that environment.

#### Electric Train Staff

A 'token' system of train working between Interlockings on single lines in non track- circuited areas, where release of a token is controlled by electrically connected and interlocked instruments.

#### EPP (Noise)

Environmental Protection (Noise) Policy 1997; Subordinate Legislation to the Queensland Environmental Protection Act 1994.

#### Force Majeure Event

Means any cause, event or circumstance, or combination of causes, events or circumstances, which is beyond the reasonable control of the Party affected thereby and which by the exercise of due diligence such Party is not reasonably able to prevent or overcome, including but not limited to, results of abnormal weather conditions, act of God, breakdown of any facilities or machinery or unavailability of essential equipment, strikes or other industrial dispute.

#### Hot Wheel & Bearing Detectors (HWD/HBD)

Heat sensors located at strategic locations on the system that identify abnormal temperatures in wheels and wheel bearings as the train passes over, transmits a signal to the train control panel that necessitates an inspection of the suspect wagon and remedial action

#### Line Code

Line Code, a unique alpha-numeric identifier applied to a section of track on Queensland Rail's network and usually run from junction point to junction point. Each numeric identifier is unique and can be further rolled up into Corridors using the alpha identifier.

#### LWR

Long welded rail. Rail that has mechanical rail joints spaced at intervals between 110m and 220m.



#### LSC

Line Section Code, a unique alpha-numeric identifier applied to a section of Queensland Rail's network.

#### Master Train Plan (MTP)

Collectively, the scheduled times as advised by Queensland Rail from time to time for all Train Services operating on Queensland Rail's Rail Infrastructure where such scheduled times remain unchanged from week to week, and any Planned Possessions.

#### Nominal Rail Size

Rail sizes 20, 31 and 41 kg/m are all nominal rail sizes used to group together a range of rail types and sizes originally designated in the imperial unit "lb/yd". The term "nominal" is used in recognition of the variation in the dimensions, mass and engineering properties of the rails in this category.

#### Ordinary Staff and Ticket Working

A token based system of safeworking where the movement of trains on bi-directional single lines is on possession of a staff token or ticket. Each section of single line has a unique token.

#### Staff & Ticket

The Staff and Ticket System allows for the movement of trains over a bidirectional track.

The Staff and Ticket System operates (in accordance with Queensland Rail's Standard MD-10-114) on the principle of absolute block working, which provides that only one train will be authorised to be on any one section at any one time.

#### **Railway Operator**

A person who has, or is seeking, Access from Queensland Rail to operate Train Services on the Rail Infrastructure and who is, or who will become, Accredited in respect of those Train Services.

#### Remote Controlled Signalling (RCS)

A system of Safeworking where train movements are governed by aspects displayed in Colour Light Signals which are controlled from a remote location and by the passage of trains. Some colour light signals and points may be released by the Train Controller to be operated from a local area by using:

- a local control panel;
- an electrically released shunting frame;
- a zone released shunting system, or
- emergency push buttons.



Railway Operators trains are expected to meet existing signalling standards to ensure track circuits and other signalling equipment operate safely and effectively - in particular Queensland Rail's Standard MD-10-76 "Principles for the Signalling of Trains" must be complied with.

#### **Rollingstock Authorisation Process**

The process for determining and validating rollingstock compliance and registration as detailed in Queensland Rail's Standard MD-10-140 - Rollingstock Validation, Acceptance and Registration

#### **Remote Train Overview Application (RTOA)**

A PC based system providing real time operational information, gathering information on train running and rail network status for immediate and continuously updated display and historical analysis.

Being a multi-tier client-server application, different levels of access/security ensure confidentiality of an Operator's train performance statistics.

#### **SN Speed Boards**

Speed Normal Boards are speed boards that place the onus on the Driver of a train to travel at speeds considered safe for that section of track being travelled over. These boards are gradually being phased out in accordance with Queensland Rail's Civil Standard MD-10-87 - SPEED BOARDS

#### Standard Train

The predominant type of train operating on the line/system.

#### SWR

Short welded rail. Rail that has mechanical rail joints spaced at intervals less than 110m.

#### Train Authorisation

The process for acceptance of a train configuration whose rollingstock is registered under Queensland Rail's Standard MD-10-140 - Rollingstock Validation, Acceptance and Registration.

#### Train Length

The total length in metres of a train including the locomotives. For the purposes of comparison with the length of crossing loops, an addition of 1% (1 metre for every 100 metres) shall be allowed to the calculated length of the train to allow for train stretching.

#### Unit Train

A train composed entirely of the one class and one drawgear classification of rollingstock.



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## Universal Traffic Control (UTC)

A PC based train control supervisory system that provides the means to remotely control train movements over a large area and provide management and train users with real time train related information.

## ViziRail

A fully integrated scheduling, possession planning, monitoring and reporting tool for managing the Queensland Rail below-rail network.

ViziRail also supports the provision of all QCA and the Department of Transport and Main Roads reporting requirements.

## Weather Monitoring System (WMS)

Remote weather monitoring stations providing critical information regarding temperature, rainfall and stream levels.

## Wheel Impact Load Detector (WILD)

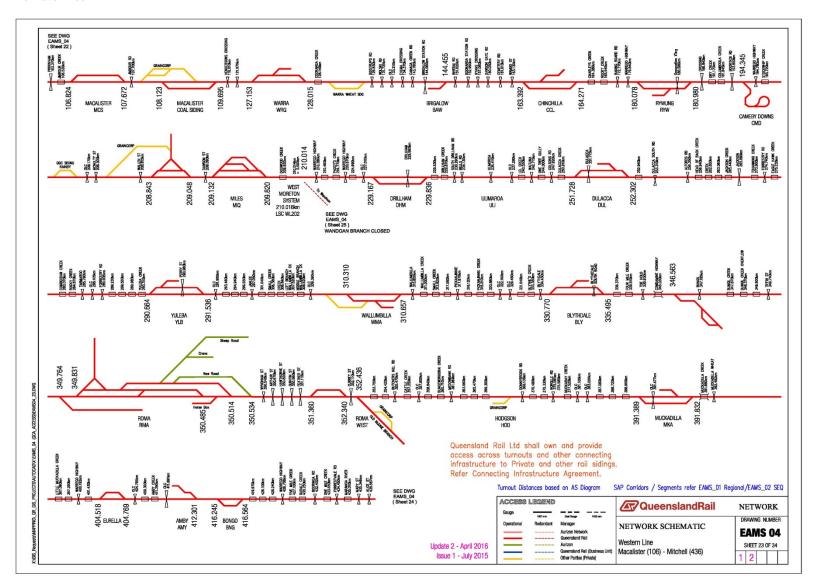
In track monitoring system to identify wheel flats.





Schematic Layout

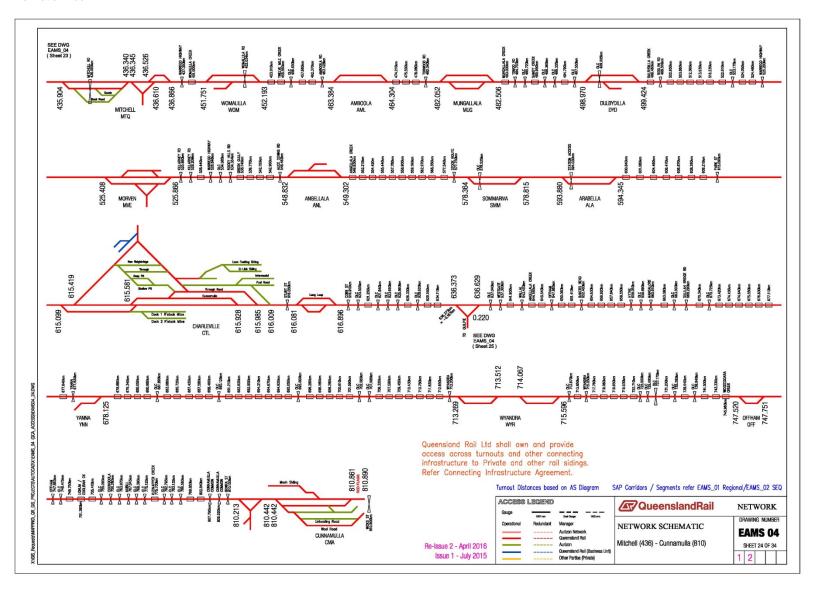
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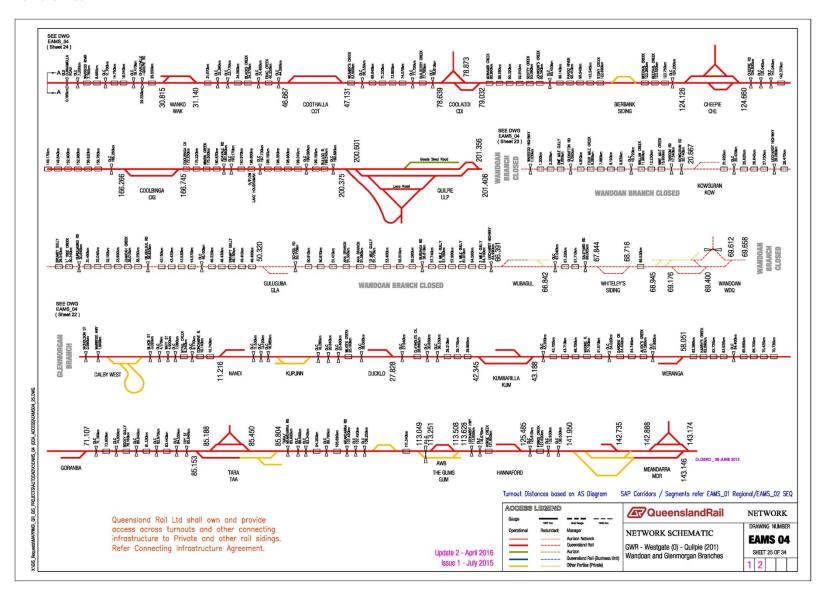
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GNO

Rail/Road Interface Details



CROSSINGS BY LINE AND KILOMETRAGE



Description of Signage Types Giveway New Signage Type Other

PWB Pedestrian Warning S Stop SC School Crossing

T Triangle U Unknown X Crossbuck

| Line<br>Section<br>Code | <u>Km</u> | Road Name                   | Туре         | Vehicular<br>Protection | <u>Signs</u> | <u>Open Status</u> | <u>Responsible</u><br><u>Authority</u> |
|-------------------------|-----------|-----------------------------|--------------|-------------------------|--------------|--------------------|--|
|                         |           |                             |              |                         |              |                    |  |
| GLEN                    | IMORGA    | N BRANCH                    |              |                         |              |                    |  |
| 559                     | 0.990     | Nicholson Street            | Public Level | Flashing Lights         |              | Open               | LGA                                    |
| 559                     | 1.450     |                             | Occupation   | Signs                   | ХТ           | Open               | PRI                                    |
| 559                     | 1.800     | Warrego Highway             | Public Level | Flashing Lights         |              | Open               | MRD                                    |
| 559                     | 2.280     | Showground Access Road      | Occupation   | Signs                   | ХТ           | Open               | PRI                                    |
| 559                     | 3.020     | Black Street                | Public Level | Signs                   | XG           | Open               | LGA                                    |
| 559                     | 4.170     | Dalby Saleyards Access Road | Public Level | Signs                   | XG           | Open               | LGA                                    |
| 559                     | 4.650     | Incitec Access Road         | Occupation   | Signs                   | ХТ           | Open               | PRI                                    |
| 559                     | 4.900     | Watt Street                 | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 5.530     | Property Access Road        | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 6.580     |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 7.090     | Gasworks Access Road        | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 9.770     | Unnamed Road                | Public Level | Signs                   | ХТ           | Open               | MRD                                    |
| 559                     | 10.500    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 11.530    | Daandine / Nandi Road       | Public Level | Signs                   | XG           | Open               | MRD                                    |
| 559                     | 15.400    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 16.180    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 16.980    | Kupunn Road                 | Public Level | Signs                   | XG           | Open               | LGA                                    |
| 559                     | 18.280    | Crofts Road                 | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 19.540    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 20.840    | Unnamed Road                | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 22.200    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 23.480    | Duleen / Daandine Road      | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 24.380    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 25.350    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 26.000    | Property Access Road        | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 26.860    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 27.940    | Ducklo School Road          | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 28.990    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 30.650    | Ducklo - Gulera Road        | Public Level | Signs                   | XG           | Open               | LGA                                    |
| 559                     | 31.710    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 34.650    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 36.330    | Gulera Road                 | Public Level | Signs                   | XS           | Open               | LGA                                    |
| 559                     | 37.900    |                             | Occupation   | Nil                     |              | Open               |  |
| 559                     | 41.030    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 43.200    | Kumbarilla Lane             | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 559                     | 44.370    |                             | Occupation   | Nil                     |              | Open               | PRI                                    |
| 559                     | 46.700    | Property Access Road        | Occupation   | Nil                     |              | Open               | PRI                                    |
|                         |           |                             |              |                         |              |                    |  |

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| ine<br>ection<br>ode | <u>Km</u> | Road Name  | <u>Type</u>     | Vehicular<br>Protection | <u>Signs</u> | Open Status | <u>Responsib</u><br><u>Authority</u> |
|----------------------|-----------|--|-----------------|-------------------------|--------------|-------------|--------------------------------------|
| 59                   | 54.020    | Unnamed Road   | Public Level    | Nil                     |              | Open        | LGA                                  |
| 59                   | 57.680    | Weranga North Road   | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 64.400    | Bungybah Road  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 71.190    | Goranba Lane   | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 74.900    | Neates Road  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 80.160    |  | Occupation      | Signs                   | ХТ           | Open        | PRI                                  |
| 59                   | 80.940    | Stock Route Access Road  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 82.970    | Chambers Crossing Road (Stock<br>Route Access Road)  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 84.520    | Day Street   | Public Level    | Signs                   | XGT          | Open        | LGA                                  |
| 59                   | 85.040    | Surat Developmental Road (Fry Stree  | et)Public Level | Signs                   | XG           | Open        | LGA                                  |
| 59                   | 85.290    | QR Maintenance Road  | QR              | Nil                     |              | Open        | QR                                   |
| 59                   | 85.800    | Wilson Street  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 86.540    |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 88.000    | Stock Route Access Road  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 88.900    |  | Occupation      |                         |              | Open        | PRI                                  |
| 59                   | 91.310    |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 92.340    | Tullagrie Road   | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 95.360    |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 97.360    |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 99.800    | South Glen Road (The Gums)   | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 102.410   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 105.050   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 106.180   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 107.420   | Surat Developmental Road   | Public Level    | Signs                   | XG           | Open        | MRD                                  |
| 59                   | 107.600   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 109.060   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 110.910   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 112.320   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 112.770   | Grainco Access Road  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 113.240   | Grainco Access Road  | Occupation      | Signs                   | ХТ           | Open        | PRI                                  |
| 59                   | 113.650   | Leichhardt Highway   | Public Level    | Flashing Lights         |              | Open        | MRD                                  |
| 59                   | 113.670   | Temporary Road Crossing  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 114.080   |  | Occupation      |                         |              | Open        | PRI                                  |
| 59                   | 115.390   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 116.810   |  | Occupation      |                         |              | Open        |                                      |
| 59                   | 118.070   | The Gums Road  | Public Level    | Nil                     |              | Open        | LGA                                  |
| 59                   | 121.960   |  | Occupation      |                         |              | Open        | PRI                                  |
| 59                   | 123.590   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 125.610   | Hannaford School Road  | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 126.730   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 127.480   |  | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 132.930   | Stock Route Access Road  | Public Level    | Nil                     |              | Open        | LGA                                  |
| 59                   | 135.090   | Property Access Road   | Occupation      | Nil                     |              | Open        | PRI                                  |
| 59                   | 136.530   | Mitchells Lane   | Public Level    | Signs                   | ХТ           | Open        | LGA                                  |
| 59                   | 140.270   | A REAL PROPERTY OF A REA | Occupation      | Nil                     | 10.010       | Open        | PRI                                  |
| 59                   | 142.340   | Grainco Access Road  | Occupation      | Signs                   | ХТ           | Open        | PRI                                  |
| 59                   | 142.840   |  | QR              | Signs                   | хт           | Open        | QR                                   |
|                      |           |  |                 |                         |              |             |                                      |

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| <u>Line</u><br>Section<br>Code | <u>Km</u> | Road Name                         | Type         | Vehicular<br>Protection | <u>Signs</u> | Open Status | <u>Responsib</u><br><u>Authority</u> |
|--------------------------------|-----------|-----------------------------------|--------------|-------------------------|--------------|-------------|--------------------------------------|
| 559                            | 143.310   | Railway Street (Meandarra Road)   | Public Level | Signs                   | ΧТ           | Open        | LGA                                  |
| 59                             | 143.590   | Condamine / Meandarra Road        | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 59                             | 143.860   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 45                             | 149.580   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 45                             | 150.540   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 45                             | 155.130   | Maroodah Road                     | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 45                             | 158,270   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 345                            | 161.990   | Unnamed road                      | Public Level | Nil                     |              | Open        | LGA                                  |
| 345                            | 164.560   | Salevards Access Road             | Public Level | Nil                     |              | Open        | LGA                                  |
| 345                            | 164.850   | Surat Developmental Road          | Public Level | Signs                   | XG           | Open        | MRD                                  |
| 345                            | 165.540   | Grainco Access Road               | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| GREAT                          | WEST      | ERN LINE                          |              |                         |              |             |                                      |
| 716                            | 0.190     | Old Cunnamulla Road               | Public Level | Signs                   | ХТ           | Open        | MRD                                  |
| 16                             | 1.200     |                                   | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 16                             | 2.800     | Property Access Road              | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 7.190     | Warrego River Station Access Road | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 16                             | 11.700    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 716                            | 12.890    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 14.480    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 15.930    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 17.200    |                                   | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 16                             | 18.330    |                                   | Occupation   | Nil                     | AT           | Open        | PRI                                  |
| 716                            | 19.470    | Myendetta Station Access Road     | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 16                             | 24.050    | Wyendella Station Access Road     | Occupation   | Nil                     | ~ 1          |             | PRI                                  |
| 16                             | 27.900    | Preparty Assess Read              |              | Nil                     |              | Open        | PRI                                  |
|                                | 29.290    | Property Access Road              | Occupation   |                         | ×c           | Open        | MRD                                  |
| 16                             |           | Diamantina Development Road       | Public Level | Signs                   | XG           | Open        |                                      |
| 16                             | 32.460    |                                   | Occupation   | Signs                   | XT           | Open        | PRI                                  |
| /16                            | 33.770    |                                   | Occupation   | Signs                   | XT           | Open        | PRI                                  |
| 16                             | 34.460    |                                   | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| /16                            | 37.160    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 40.920    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 44.560    | Loddon Road (Blacks Tank Road)    | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 716                            | 53.340    | Property Access Road              | Occupation   | Nil                     |              | Open        | PRI                                  |
| 716                            | 56.330    | Access Road                       | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 16                             | 59.120    |                                   | Occupation   | Nil                     |              | Open        |                                      |
| 16                             | 64.330    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 16                             | 77.750    | Langlo Road                       | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| /16                            | 78.610    | Pump Road                         | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 17                             | 95.450    | Arranfield Road                   | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| '17                            | 96.760    |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 105.040   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 108.680   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 116.950   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 121.720   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 122.970   |                                   | Occupation   | Nil                     |              | Open        | PRI                                  |
| 17                             | 124.200   | Cheepie Road                      | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 17                             | 124.905   | Cheepie Road                      | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
|                                |           | b-06 Civil En                     |              | twork Access Gro        |              |             | Page 3 o                             |

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| Code   | <u>Km</u>  | Road Name  | Type   | Vehicular<br>Protection  | <u>Signs</u>  | Open Status  | <u>Responsibl</u><br><u>Authority</u>  |
|--|--|--|--|--|---|--|--|
| 17   | 129.620  |  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 131.040  |  | Occupation   | Signs  | ХТ  | Open   | PRI  |
| 17   | 135.890  | Station Access Road  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 141.040  |  | Occupation   | Signs  | ХТ  | Open   | PRI  |
| 17   | 148.700  | Property Access Road   | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 156.445  | Property Access Road   | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 157.170  |  | Occupation   | Nil  |   | Open   |  |
| 17   | 165,300  |  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 166.260  | Colac / Coolbinga Road   | Public Level   | Signs  | ХТ  | Open   | LGA  |
| 17   | 171.370  |  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 175.840  |  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 177.230  |  | Occupation   | Nil  |   | Open   |  |
| 17   | 180.180  |  | Occupation   | Nil  |   | Open   |  |
| 17   | 186.510  |  | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 187.860  | Quilpie / Adavale Road   | Public Level   | Signs  | XG  | Open   | MRD  |
| 17   | 193.170  | dunple / Address Road  | Occupation   | Nil  | ~~  | Open   | PRI  |
| 17   | 196.440  | Wanko Road   | Occupation   | Nil  |   | Open   | PRI  |
| 17   | 197.730  | Farm Access Road   | Public Level   | Signs  | ХТ  | Open   | LGA  |
| 17   | 199.090  | Avadale River Road   | Public Level   |  | хт  |  | LGA  |
| 17   | 199.890  | Town Common  | Public Level   | Signs  | XT  | Open   | LGA  |
|  |  | Town Common  |  | Signs  | A I   | Open   | LGA  |
| 17   | 200.580  | Colourada Danad (an aidina)  | QR<br>Dublic Louis   | Nil  | ¥ T   | Open   | 104  |
| 17   | 200.850  | Saleyards Road (on siding)   | Public Level   | Signs  | XT  | Open   | LGA  |
|  | 200.880  | RANCH  | QR   | Nil  |   | Open   |  |
| 61   | 3.480  | Property Access Road   | Occupation   | Signs  | хт  | Open   | PRI  |
| ANDC<br>61<br>61   | 3.480<br>4.670   |  | Occupation<br>Public Level   | Signs<br>Signs   | ХТ  | Open<br>Open   | LGA  |
| ANDC<br>61<br>61<br>61   | 3.480<br>4.670<br>5.520  | Property Access Road   | Occupation<br>Public Level<br>Occupation   | Signs<br>Signs<br>Signs  |   | Open<br>Open<br>Open   | LGA<br>PRI   |
| ANDC<br>61<br>61<br>61<br>61   | 3.480<br>4.670<br>5.520<br>7.190   | Property Access Road   | Occupation<br>Public Level<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil   | Х Т<br>Х Т  | Open<br>Open<br>Open   | LGA<br>PRI<br>PRI  |
| ANDC<br>61<br>61<br>61<br>61<br>61   | 3.480<br>4.670<br>5.520<br>7.190<br>8.070  | Property Access Road   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs  | хт<br>хт<br>хт  | Open<br>Open<br>Open<br>Open<br>Open                         | lga<br>Pri<br>Pri<br>Pri   |
| ANDC<br>61<br>61<br>61<br>61<br>61   | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390   | Property Access Road<br>Old Dip Yard Access Road   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs   | Х Т<br>Х Т<br>Х Т<br>Х Т  | Open<br>Open<br>Open   | LGA<br>PRI<br>PRI<br>PRI   |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61   | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730   | Property Access Road   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs  | X T<br>X T<br>X T<br>X T<br>X T   | Open<br>Open<br>Open<br>Open<br>Open                         | LGA<br>PRI<br>PRI<br>PRI<br>LGA  |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61                                     | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs   | XT<br>XT<br>XT<br>XT<br>XT<br>XT  | Open<br>Open<br>Open<br>Open<br>Open<br>Open                 | LGA<br>PRI<br>PRI<br>PRI<br>LGA<br>LGA   |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61                                     | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road  | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs  | X T<br>X T<br>X T<br>X T<br>X T   | Open<br>Open<br>Open<br>Open<br>Open<br>Open                 | lga<br>Pri<br>Pri<br>Pri<br>Lga<br>Lga   |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61                               | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs   | XT<br>XT<br>XT<br>XT<br>XT<br>XT  | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open         | LGA<br>PRI<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA  |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61                         | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road  | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs  | X T<br>XT<br>XT<br>XT<br>XT<br>XT   | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | lga<br>Pri<br>Pri<br>Pri<br>Lga<br>Lga   |
| <b>ANDC</b><br>61  | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road  | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs   | X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T                                   | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA   |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61                   | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs  | X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T                                   | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>LGA<br>PRI   |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61                         | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs   | X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T                            | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>LGA                                    |
| ANDC<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level   | Signs<br>Signs<br>Signs<br>Nil<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs  | X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T<br>X T                     | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>LGA<br>PRI<br>PRI<br>LGA                             |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Nill<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs   | ХТ<br>ХТ<br>ХТ<br>ХТ<br>ХТ<br>ХТ<br>ХТ<br>ХТ<br>ХТ                              | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>LGA                                    |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs  | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT                  | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>LGA<br>PRI                             |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61                   | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450<br>23.810   | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing<br>Pirrinuan / Apunyal Road   | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation                                   | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs                            | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT                  | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>LGA<br>PRI<br>PRI                      |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450<br>23.810<br>25.950                               | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing<br>Pirrinuan / Apunyal Road<br>Macalister / Bell Road               | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level                                     | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs                   | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT            | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>LGA<br>PRI<br>LGA<br>PRI<br>MRD        |
| ANDC<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450<br>23.810<br>25.950<br>26.610                     | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing<br>Pirrinuan / Apunyal Road<br>Macalister / Bell Road               | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level                 | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs                   | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT      | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>PRI<br>LGA<br>PRI<br>MRD<br>LGA        |
| ANDC<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51<br>51 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450<br>23.810<br>25.950<br>26.610<br>31.110           | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing<br>Pirrinuan / Apunyal Road<br>Macalister / Bell Road<br>Kents Road | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level   | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs          | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>X | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>PRI<br>LGA<br>PRI<br>MRD<br>LGA<br>PRI |
| ANDC<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61<br>61 | 3.480<br>4.670<br>5.520<br>7.190<br>8.070<br>9.390<br>10.730<br>11.920<br>13.670<br>15.690<br>16.740<br>17.510<br>17.910<br>18.390<br>20.450<br>23.810<br>25.950<br>26.610<br>31.110<br>32.720 | Property Access Road<br>Old Dip Yard Access Road<br>Kitcombe Crossing<br>Karingal Crossing<br>Karingal / Apunyal Road<br>Plain-view Crossing<br>Glencoe Crossing<br>Glencoe Crossing<br>Pirrinuan / Apunyal Road<br>Macalister / Bell Road<br>Kents Road | Occupation<br>Public Level<br>Occupation<br>Occupation<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Occupation<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level<br>Public Level | Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs<br>Signs | XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>XT<br>X | Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open<br>Open | LGA<br>PRI<br>PRI<br>LGA<br>LGA<br>LGA<br>PRI<br>LGA<br>PRI<br>LGA<br>PRI<br>LGA               |

Queensland Rail does not warrant the fitness for purpose or accuracy of this information Western System Information Pack

| <u>ine</u><br>Section<br>Code | Km      | Road Name   | Type         | Vehicular<br>Protection | <u>Signs</u> | <u>Open Status</u> | <u>Responsib</u><br><u>Authority</u> |
|-------------------------------|---------|---|--------------|-------------------------|--------------|--------------------|--------------------------------------|
| 561                           | 37.140  | Coorain Crossing                                      | Public Level | Nil                     |              | Open               | LGA                                  |
| i61                           | 40.090  | Marnhull Access Road                                  | Public Level | Signs                   | ХТ           | Open               | LGA                                  |
| 61                            | 40.980  | Warra / Marnhull Road                                 | Public Level | Signs                   | ХТ           | Open               | LGA                                  |
| 61                            | 44.010  | Property Access Road                                  | Occupation   | Signs                   | ХТ           | Open               | PRI                                  |
| 61                            | 44.300  |   | Occupation   | Signs                   | ХТ           | Open               | PRI                                  |
| 61                            | 46.060  |   | Occupation   | Signs                   | ХТ           | Open               | PRI                                  |
| 61                            | 46.190  | Jandowae Wheat Board Access Road                      | Occupation   | Nil                     |              | Open               | PRI                                  |
| 61                            | 46.220  | Jandowae Wheat Board Access Road                      | Occupation   | Nil                     |              | Open               |                                      |
| 61                            | 46.500  | Radkes Road   | Public Level | Signs                   | ХТ           | Open               | LGA                                  |
| 61                            | 48.430  | Jimbour Street  | Public Level | Signs                   | ХТ           | Open               | LGA                                  |
| 61                            | 48.870  |   | Public Level |                         |              | Open               |                                      |
| AIN I                         | LINE    |   |              |                         |              |                    |                                      |
| 89                            | 59.760  | Lane Road   | Public Level | Signs                   | XS           | Open               | LGA                                  |
| 89                            | 64.300  | Calvert Station Road                                  | Public Level | Half Boomgates          |              | Open               | LGA                                  |
| 89                            | 64.480  | Property Access Road                                  | Occupation   | Signs                   | XS           | Open               | PRI                                  |
| 89                            | 66.190  |   | Occupation   | Signs                   | XS           | Open               | PRI                                  |
| 89                            | 66.750  | Mackenzies Road                                       | Occupation   | Signs                   | XS           | Open               | PRI                                  |
| 89                            | 69.590  | Rosewood / Laidley Road                               | Public Level | Flashing Lights         |              | Open               | MRD                                  |
| 89                            | 71.030  |   | QR           | Signs                   | XS           | Open               |                                      |
| 89                            | 76.520  | QR Maintenance Road                                   | QR           | Signs                   | XS           | Open               | QR                                   |
| 89                            | 78.790  |   | QR           |                         |              | Open               |                                      |
| 89                            | 81.510  | Patrick Street (on siding)                            | Public Level | Nil                     |              | Open               | MRD                                  |
| 89                            | 81.520  | Patrick Street - Laidley Plainlands<br>Road           | Public Level | Half Boomgates          |              | Open               | MRD                                  |
| 89                            | 81.560  | Road Into Depot & Station (on siding)                 | Occupation   | Nil                     |              | Open               | QR                                   |
| 89                            | 85.320  |   | Occupation   | Nil                     |              | Open               | PRI                                  |
| 89                            | 86.170  |   | Occupation   | Signs                   | XG           | Open               | PRI                                  |
| 89                            | 87.490  | Laidley Road  | Public Level | Half Boomgates          |              | Open               | MRD                                  |
| 89                            | 88.820  | Off Dodt Road   | Public Level | Signs                   | XS           | Open               | LGA                                  |
| 89                            | 92.780  | Fitzgeralds Road Proposed                             | Pedestrian   |                         |              | Proposed           | LGA                                  |
| 89                            | 96.120  | Gaul Street   | Public Level | Half Boomgates          |              | Open               | LGA                                  |
| 189                           | 98.370  | Smithfield Road / Burgess Road (Old<br>Toowoomba Road | Public Level | Half Boomgates          |              | Open               | LGA                                  |
| 89                            | 114.250 | Turner Street - Arthur Street                         | Public Level | Half Boomgates          |              | Open               | LGA                                  |
| 46                            | 118.130 | Property Access Road                                  | Occupation   | Signs                   | XS           | Open               | PRI                                  |
| 46                            | 121.645 | Montgomery Road                                       | Public Level | Flashing Lights         |              | Open               | LGA                                  |
| 46                            | 131.645 | Murphys Creek Road (on Siding)                        | Public Level | Signs                   | XG           | Open               | MRD                                  |
| 46                            | 131.660 | Murphys Creek Road - Dodts Road<br>Connection         | Public Level | Half Boomgates          |              | Open               | LGA                                  |
| 46                            | 140.000 | QR Maintenance Road                                   | QR           | Signs                   | ХТ           | Open               | QR                                   |
| 46                            | 146.210 |   | Pedestrian   | Nil                     |              | Open               | LGA                                  |
| 46                            | 159.200 | Jones Street  | Public Level | Flashing Lights         | PWB          | Open               | LGA                                  |
| 46                            | 159.430 | North Street  | Public Level | Flashing Lights         | PWB          | Open               | LGA                                  |
| 46                            | 159.570 | Proposed pedestrian crossing                          | Pedestrian   |                         |              | Proposed           | LGA                                  |
| 46                            | 159.900 | Jellicoe Street                                       | Public Level | Half Boomgates          | PWB          | Open               | LGA                                  |
| 46                            | 160.340 | Cress Street  | Pedestrian   |                         |              | Open               | LGA                                  |
| 40                            |         |   |              |                         |              |                    |                                      |

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| <u>ine</u><br>Section<br>Code | <u>Km</u> | Road Name   | Type         | Vehicular<br>Protection   | <u>Signs</u> | Open Status | Responsible<br>Authority |
|-------------------------------|-----------|---|--------------|---------------------------|--------------|-------------|--------------------------|
| 64                            | 1.030     | Warrego Highway                                     | Public Level | Flashing Lights           |              | Open        | MRD                      |
| 64                            | 1.730     | Property Access Road                                | Occupation   | Signs                     | ХТ           | Open        | PRI                      |
| 64                            | 2.520     |   | Occupation   | Signs                     | ХТ           | Open        | PRI                      |
| 64                            | 2.740     |   | Occupation   | Signs                     | ХТ           | Open        | PRI                      |
| 64                            | 4.060     | Glenafton Road                                      | Public Level | Signs                     | XG           | Open        | LGA                      |
| 64                            | 6.530     |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 10.720    | Dalwogan Road                                       | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 17.540    | Leichhardt Highway                                  | Public Level | Flashing Lights           |              | Open        | MRD                      |
| 64                            | 20.140    | Kowguran Road                                       | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 21.115    | Property Access Road                                | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 23.600    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 25.410    |   | Occupation   | Signs                     | ХТ           | Open        | PRI                      |
| 64                            | 26.900    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 28.090    | Leichhardt Highway                                  | Public Level | Signs                     | XG           | Open        | MRD                      |
| 64                            | 30.730    | Gurulmundi Road                                     | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 34.840    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 36.470    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 37.245    | Access Road   | Public Level | Nil                       |              | Open        | LGA                      |
| 64                            | 38.830    | Giligulgul Road                                     | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 46.150    | Barneys Lane  | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 49.220    |   | Occupation   | Signs                     | ХТ           | Open        | PRI                      |
| 64                            | 50.460    |   | Occupation   | Nil                       |              | Open        |                          |
| 64                            | 50.715    | Fosters Road (School Road)                          | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 52.090    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 54.415    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 56.610    | Burunga Lane  | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 57.340    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 58.995    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 61.305    |   | Occupation   | Nil                       |              | Open        | PRI                      |
| 64                            | 63.130    | Lalagoola Property Access Road                      | Occupation   | Signs                     | XG           | Open        | PRI                      |
| 64                            | 64.980    | Leichhardt Highway                                  | Public Level | Flashing Lights           |              | Open        | MRD                      |
| 64                            | 67.040    | Farm Access Road (Wandoan<br>Alternate Access Road) | Public Level | Signs                     | ХТ           | Open        | LGA                      |
| 64                            | 68.005    | Windeyer Road                                       | Public Level | Signs                     | XS           | Open        | LGA                      |
| 64                            | 69.490    | Jerrard Street (on siding)                          | Public Level | Nil                       |              | Open        | LGA                      |
| VEST                          | ERN LIN   | IE _  |              | -                         |              |             |                          |
| 65                            | 210.660   | Warrego Highway                                     | Public Level | Flashing Lights           |              | Open        | MRD                      |
| 65                            | 216.295   | Paddy's Creek Road                                  | Public Level | Signs                     | XG           | Open        | LGA                      |
|                               | on 23-Fe  | · · ······  |              | signs<br>twork Access Gro |              | Open        | Page                     |

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| <u>ine</u><br>Section<br>Code | Km                 | Road Name                           | Type                         | Vehicular<br>Protection | <u>Signs</u> | Open Status | <u>Responsibl</u><br><u>Authority</u> |
|-------------------------------|--------------------|-------------------------------------|------------------------------|-------------------------|--------------|-------------|---------------------------------------|
| 65                            | 220.670            | Warrego Highway                     | Public Level                 | Flashing Lights         |              | Open        | MRD                                   |
| 65                            | 227.010            | Beausang Flat Access Road           | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 229.660            | School Road                         | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 230.280            | South Drillham Road                 | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 234.140            | Bells Road                          | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 236.610            | Access Road                         | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 237.280            | Cattle Yards Road                   | Public Level                 | Signs                   | хт           | Open        | LGA                                   |
| 65                            | 240.820            | Jaydee Access Road                  | Occupation                   | Signs                   | хт           | Open        | PRI                                   |
| 65                            | 242.715            | Waituna Road                        | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 247.910            | Colsons Road                        | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 251.495            | Golf Club Access Road (Proposed)    | Public Level                 | Nil                     | A G          | Proposed    | LGA                                   |
| 65                            | 251.810            | Golf Club Access Road               | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 253.310            | Dulacca South Road                  | Public Level                 | Signs                   | XG           | Ореп        | LGA                                   |
| 65                            | 256.350            | Alfords Road                        | Public Level                 | Signs                   | хт           | Ореп        | LGA                                   |
| 65                            | 265.880            | Railway Street                      | Public Level                 | Signs                   | XS           | Open        | MRD                                   |
| 65                            |                    | Forestry Access Road                | Public Level                 |                         | XT           |             | PRI                                   |
| 65                            | 274.750            | Tarmaroo Station Access Road        |                              | Signs                   | хт           | Open        | LGA                                   |
|                               | 285.780<br>288.105 |                                     | Public Level<br>Public Level | Signs                   |              | Open        |                                       |
| 65<br>er                      |                    | Warrego Hwy / Unnamed Road          |                              | Signs                   | XT           | Open        | LGA                                   |
| 65                            | 289.905            | Forestry Road                       | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 290.970            | Perry Street                        | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65<br>or                      | 291.970            | Bedwell Street (Yuleba South Road)  | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 297.030            | Janlee Station Access Road          | Public Level                 | Signs                   | XT           | Open        | LGA                                   |
| 65                            | 304.460            | Glenray Road                        | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 309.395            | Access To Grainco                   | Public Level                 | Signs                   | XGT          | Open        | MRD                                   |
| 65                            | 310.860            | Wallumbilla South Road              | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 317.850            | Pickanjinnie Road (Blue Hills Road) | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 320.265            | Proposed Access Road                | Public Level                 | Nil                     |              | Proposed    | LGA                                   |
| 65                            | 322.160            | Access Road                         | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 329.450            | Wattanooka Road                     | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 334.430            | Blue Hills Road                     | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 339.930            | Toe Hold Road                       | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 65                            | 347.195            | Roma Downs Road (Bungil Road)       | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 65                            | 349.280            | Property Access Road                | Occupation                   | Signs                   | XG           | Open        | PRI                                   |
| 65                            | 349.800            | Tiffen Street                       | Public Level                 | Signs                   | XS           | Open        | LGA                                   |
| 65                            | 350.550            | Wyndham Street                      | Public Level                 | Signs                   | XS           | Open        | LGA                                   |
| 65                            | 350.670            | Arthur Street                       | Public Level                 | Signs                   | XS           | Open        | LGA                                   |
| 65                            | 350.820            | Hawthorne Street                    | Public Level                 | Signs                   | XST          | Open        | LGA                                   |
| 65                            | 350.960            | Quinton Street / Warrego Highway    | Public Level                 | Flashing Lights         |              | Open        | MRD                                   |
| 65                            | 351.110            | Feather Street                      | Public Level                 | Signs                   | XS           | Open        | LGA                                   |
| 65                            | 352.410            | Currey Street                       | Public Level                 | Signs                   | XS           | Open        | LGA                                   |
| 67                            | 353.290            | West Grainco Access Road            | Occupation                   | Signs                   | XS           | Open        | PRI                                   |
| 67                            | 355.465            | Chappell Lane                       | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 57                            | 357.805            | Bungeworgorai Lane                  | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 67                            | 359.825            | Warrego Hwy / Un-named road         | Occupation                   | Nil                     |              | Open        | LGA                                   |
| 67                            | 361.969            | Bungeworgorai / Bindango Road       | Public Level                 | Signs                   | XG           | Open        | LGA                                   |
| 67                            | 368.136            | Donnybrook Road                     | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
| 67                            | 370.195            | Un-named road                       | Occupation                   | Signs                   | ХТ           | Open        | PRI                                   |
| 67                            | 375.581            | Norolle Road                        | Public Level                 | Signs                   | ХТ           | Open        | LGA                                   |
|                               |                    |                                     |                              |                         |              |             |                                       |

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| ne<br>ection<br>ode | <u>Km</u> | Road Name                                  | Type         | Vehicular<br>Protection | <u>Signs</u> | Open Status | <u>Responsib</u><br><u>Authority</u> |
|---------------------|-----------|--|--------------|-------------------------|--------------|-------------|--------------------------------------|
| 67                  | 391.477   | Bindango Road                              | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 67                  | 392.492   | Wheat Street                               | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 67                  | 400.192   | Warrego Highway                            | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 67                  | 403.789   | Eurella Road                               | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 67                  | 404.782   | Property Access Road                       | Occupation   | Nil                     |              | Open        | PRI                                  |
| 67                  | 407.128   | Eurella / Amby Downs Road                  | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 67                  | 411.891   | Springfield Road                           | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 37                  | 415.433   | Property Access Road                       | Occupation   | Nil                     |              | Open        | PRI                                  |
| 37                  | 418.376   | Radio Repeater Access Road                 | Occupation   | Signs                   | XG           | Open        | PRI                                  |
| 57                  | 426.708   | Warrego Highway                            | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 57                  | 432.395   | Saleyards Road                             | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 57                  | 434.447   | Forest Vale Road                           | Public Level | Signs                   | XG           | Open        | MRD                                  |
| 37                  | 435.346   | Mary Street                                | Public Level | Signs                   | XS           | Open        | LGA                                  |
| 37                  | 435.587   | Alice Street                               | Public Level | Signs                   | XS           | Open        | LGA                                  |
| 37                  | 435.880   | opp Margaret Street and Ann Street         | Pedestrian   | -1310                   | AU           | Open        | LGA                                  |
| 37                  | 436.000   | Mitchell Road                              | Public Level | Signs                   | XS           | Open        | LGA                                  |
| 57<br>57            | 437.028   | Warrego Highway                            | Public Level | -                       | × 3          | Open        | MRD                                  |
|                     | 441.164   |  | Occupation   | Flashing Lights         |              |             | PRI                                  |
| 57                  |           | Property Access Road                       |              | Nil                     | V.T          | Open        | LGA                                  |
| 57                  | 452.034   | Womallila Road                             | Public Level | Signs                   | ХТ           | Open        |                                      |
| 57                  | 456.645   | Property Access Road                       | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 57                  | 463.428   | Amboola Road                               | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 57                  | 482.040   | Torwood Road                               | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 58                  | 484.715   | Tomoo Road                                 | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 68                  | 488.283   | Property Access Road                       | Occupation   | Signs                   | ХТ           | Open        | LGA                                  |
| 88                  | 499.001   | Dulbydilla Siding Road                     | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 58                  | 499.516   | Roslyn Road                                | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 68                  | 518.912   |  | Occupation   | Nil                     |              | Open        | PRI                                  |
| 68                  | 524.725   | Stock Crossing                             | Occupation   | Signs                   | ХТ           | Open        | LGA                                  |
| 68                  | 525.200   | Warrego Highway                            | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 68                  | 525.846   | Killarney Road                             | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 68                  | 528.846   | Warrego Highway                            | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 68                  | 534.354   | Property Access Road                       | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 68                  | 536.642   |  | Occupation   | Nil                     |              | Open        | PRI                                  |
| 88                  | 548.462   | Alice Downs Road                           | Public Level | Signs                   | ХТ           | Open        | LGA                                  |
| 58                  | 549.176   | Alice Downs Road                           | Occupation   | Signs                   | х            | Open        | LGA                                  |
| 68                  | 559.640   |  | Occupation   |                         |              | Open        | PRI                                  |
| 58                  | 569.410   | Lurnea Road                                | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 58                  | 577.750   | Stock Route                                | Occupation   | Nil                     |              | Open        | PRI                                  |
| 68                  | 578.525   | Sommariva Station Access Road              | Public Level | Signs                   | XGT          | Open        | LGA                                  |
| 58                  | 585.310   | Property Access Road                       | Occupation   | Nil                     |              | Open        | PRI                                  |
| 88                  | 594.030   | Arabella Station Access Road               | Occupation   | Signs                   | ХТ           | Open        | PRI                                  |
| 68                  | 608.580   | Property Access Road                       | Occupation   | Signs                   | XG           | Open        | PRI                                  |
| 68                  | 613.060   | Property Access Road                       | Occupation   | Nil                     |              | Open        | LGA                                  |
| 68                  | 614.910   | Warrego Highway (SWQEB Siding<br>Crossing) | Public Level | Signs                   | XG           | Open        | MRD                                  |
| 68                  | 615.090   | Park Street                                | Public Level | Signs                   | XS           | Open        | LGA                                  |
| 68                  | 616.050   | Mitchell Highway (Stuart Street)           | Public Level | Flashing Lights         |              | Open        | MRD                                  |
| 13                  | 616.910   | Lou Ariotti Drive                          | Public Level | Signs                   | XS           | Open        | LGA                                  |
| 13                  | 621.045   | Property Access Road                       | Occupation   | Nil                     |              | Open        | PRI                                  |

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| ine<br>Section<br>Sode | Km      | Road Name   | Туре         | Vehicular<br>Protection | Signs | Open Status | Responsib<br>Authority |
|------------------------|---------|---|--------------|-------------------------|-------|-------------|------------------------|
| '13                    | 625.160 | Old Cunnamulla Road / Mitchell<br>Highway Access Road | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 13                     | 628.620 | Old Cunnamulla Road / Mitchell<br>Highway Access Road | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 637.300 | Old Cunnamulla Road / Mitchell<br>Highway Access Road | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 641.500 | Property Access Road                                  | Occupation   | Signs                   | т     | Open        | PRI                    |
| 14                     | 643.400 | Wallal Station Access Road                            | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 645.360 |   | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 14                     | 652.400 | Property Access Road                                  | Occupation   | Signs                   | XG    | Open        | PRI                    |
| 14                     | 659.010 | Property Access Road                                  | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 14                     | 660.610 | Mangalore Station Access Road                         | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 662.450 | Property Access Road                                  | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 668.290 | Dillilah Road (Dillilah Bridge Road)                  | Public Level | Signs                   | XG    | Open        | LGA                    |
| 14                     | 670.710 |   | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 674.400 | Property Access Road                                  | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 677.830 | Yanna Bridge Road (Guessling /<br>Wheatleigh Road)    | Public Level | Signs                   | XG    | Open        | LGA                    |
| 14                     | 678.590 | Yanna Station Access Road                             | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 681.900 |   | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 685.130 | Property Access Road                                  | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 686.865 |   | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 690.150 |   | Occupation   |                         |       | Open        |                        |
| 14                     | 695.010 | Moruya Narran Road                                    | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 695.080 | Private   | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 698.600 | Quilberry Station Access Road                         | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 14                     | 702.070 | South Ray Station Access Road                         | Public Level | Signs                   | ХТ    | Open        | LGA                    |
| 14                     | 705.310 | Bore Access Road                                      | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 707.380 | Telecom Tower Access Road                             | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 707.700 |   | Occupation   | Nil                     |       | Open        | PRI                    |
| 14                     | 713.200 | Cooper Street   | Public Level | Signs                   | XG    | Open        | LGA                    |
| 15                     | 715.050 | Railway Street  | Public Level | Signs                   | XG    | Open        | LGA                    |
| 15                     | 720.030 | -   | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 726,710 |   | Occupation   | Nil                     |       | Open        | PRI                    |
| 15                     | 735.290 | Claverton Station Access Road                         | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 741.600 | Mirrabooka Station Access Road                        | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 747.865 | Offham Station Access Road                            | Public Level | Signs                   | XG    | Open        | LGA                    |
| 15                     | 749.507 | Ardrossan Access Road                                 | Public Level | Signs                   | XS    | Open        | LGA                    |
| 15                     | 751.665 | Goolburra Property Access Road                        | Occupation   | Nil                     |       | Open        | PRI                    |
| 15                     | 755.410 |   | Occupation   | Nil                     |       | Open        | PRI                    |
| 15                     | 755.535 |   | Occupation   |                         |       | Open        | PRI                    |
| 15                     | 759.280 | Paroo Road / Mitchell Highway                         | Public Level | Signs                   | XG    | Open        | LGA                    |
| 15                     |         | Property Access Road                                  | Occupation   | Nil                     |       | Open        | PRI                    |
| 15                     | 767.040 |   | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 775.120 |   | Occupation   | Signs                   | хт    | Open        | PRI                    |
| 15                     | 778,780 |   | Occupation   | 518115                  | A     | Open        | LGA                    |
| 15                     | 781.295 | Telecom Tower Access Road                             | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 792.110 | LOSSOIL LONGE HUGGSS HURD                             | Occupation   | Jigna                   | ~ 1   | Open        | PRI                    |
|                        | 793.135 | Dhildt Station Access Road                            |              | Signe                   | ΥТ    |             |                        |
| 15                     |         | Philott Station Access Road                           | Occupation   | Signs                   | ХТ    | Open        | PRI                    |
| 15                     | 797.425 |   | Occupation   | Nil                     | VT    | Open        | PRI                    |
| 15                     | 801.655 |   | Occupation   | Signs                   | ХТ    | Open        | PRI                    |

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| Line<br>Section<br>Code | Km      | Road Name                    | Туре         | Vehicular<br>Protection | <u>Signs</u> | <u>Open Status</u> | <u>Responsible</u><br><u>Authority</u> |
|-------------------------|---------|------------------------------|--------------|-------------------------|--------------|--------------------|--|
| 715                     | 803.510 | Hayfield Station Access Road | Occupation   | Signs                   | ХТ           | Open               | PRI                                    |
| 715                     | 807.790 | Cunnamulla Common            | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 715                     | 809.520 | Cunnamulla Common            | Public Level | Signs                   | ХТ           | Open               | LGA                                    |
| 715                     | 810.150 | Bowra Street                 | Occupation   | Signs                   | XG           | Open               | QR                                     |
| 715                     | 810.900 | Wicks Street                 | Public Level | Signs                   | XG           | Open               | LGA                                    |





Speed Boards

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| Maximum Line Sp    | eed : 70,60,50kph |          | WEST  | ERNLINE   |
|--------------------|-------------------|----------|-------|---|
|                    |                   |          |       | Increasing distance in Up direction   |
| DISTANCE           | FEATURE           | UP       | DN    | COMMENTS  |
| 208.815            |                   | 40       | 80    |   |
| 209.290            |                   |          |       | Miles   |
| 210.083            |                   | 70       | 40    |   |
| 210.264            |                   | ~-       | 15P&B | 15km/h through points and over bridge   |
| 229.133            |                   | 25       | 70    | Definition of the second se |
| 229.670            |                   | 70       | 25    | Drillham  |
| 229.919<br>236.490 |                   | 70       | 25    | Ulimaroa  |
| 247.357            |                   |          | 70    | Cinnarda  |
| 247.476            |                   | 60       | 10    |   |
| 247.878            |                   |          | 60    |   |
| 247.949            |                   | 70       |       |   |
| 251.679            |                   | 25       | 70    |   |
| 251.970            |                   |          |       | Dulacca   |
| 252.285            |                   | 70       | 25    |   |
| 265.630            |                   |          |       | Jackson   |
| 274.800            |                   |          |       | Tchanning   |
| 286.208            |                   | 00       | 70    |   |
| 286.313            |                   | 60       |       |   |
| 288.350            |                   | 70       | 60    |   |
| 288.454<br>290.623 |                   | 70<br>25 | 70    |   |
| 290.820            |                   | 20       | 70    | Yuleba  |
| 291.562            |                   | 70       | 25    | Tuleba  |
| 309.377            |                   | 10       | 70    |   |
| 310.720            |                   |          |       | Wallumbilla   |
| 310.870            |                   | 70       |       |   |
| 317.910            |                   |          |       | Pickanjinnie  |
| 333.538            |                   | 60       | 70    |   |
| 333.747            |                   | 25       | 60    |   |
| 334.040            |                   |          |       | Blythdale   |
| 334.520            |                   | 70       | 25    |   |
| 344.095            |                   | 50       | 70    |   |
| 344.097            |                   |          | 70    | Puncil  |
| 346.560<br>347.400 |                   |          |       | Bungil<br>Weraki  |
| 347.728            |                   | 70       | 50    |   |
| 349.266            |                   | 25       | 70    |   |
| 350.340            |                   | _0       |       | Roma  |
| 351.830            |                   |          |       | Roma Passing Loop   |
| 352.357            |                   | 70       | 25    |   |
| 352.440            |                   |          |       | Roma West   |
| 357.770            |                   |          |       | Bungeworgorai   |
| 360.109            |                   |          | 70    |   |
| 366.857            |                   |          | 70    |   |
| 367.850            |                   |          |       | Hodgson   |
| 368.908            |                   | 70       |       | Pindenge  |
| 375.610<br>383.000 |                   |          |       | Bindango<br>Brinsop   |
| 390.768            |                   |          | 70    | Чости   |
| 390.768<br>391.650 |                   |          | 10    | Muckadilla  |
| 392.136            |                   | 70       |       |   |
| 392.790            |                   |          |       | Muckadilla Graincorp  |
| 404.580            |                   |          |       | Eurella   |
| 411.599            |                   |          | 70    |   |
| 412.030            |                   |          |       | Amby  |

**Agenetical** QueenslandRail

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| Maximum Line Sp    | beed : 70,60,50kph | V  | VEST     | ERNLINE<br>Increasing distance in Up direction |
|--------------------|--------------------|----|----------|--|
| DISTANCE           | FEATURE            | UP | DN       | COMMENTS                                       |
| 412.746            |                    | 70 |          |  |
| 416.400            |                    |    | 60       | Bongo  |
| 426.540            |                    |    |          | Marbango                                       |
| 432.780            |                    |    |          | Booringa                                       |
| 433.328            |                    | 70 |          |  |
| 433.364            |                    |    |          |  |
| 433.563            |                    | 60 |          |  |
| 433.720            |                    |    | 70       |  |
| 434.490            |                    |    | 70       |  |
| 434.592            |                    | 30 |          |  |
| 435.158            |                    |    | 30       |  |
| 435.169            |                    | 40 | 40       |  |
| 435.604            |                    |    | 40       |  |
| 436.170            |                    |    |          | Mitchell                                       |
| 436.431            |                    | 60 |          |  |
| 436.774            |                    | 70 |          |  |
| 436.905            |                    |    | 60       |  |
| 444.410            |                    |    | 70       |  |
| 444.513            |                    | 60 | <u> </u> |  |
| 444.901            |                    | 40 | 60       |  |
| 444.984            |                    | 40 | 40       |  |
| 445.342<br>445.442 |                    | 60 | 40       |  |
| 446.424            |                    | 00 | 60       |  |
| 446.543            |                    | 40 | 00       |  |
| 446.750            |                    | 40 | 40       |  |
| 446.855            |                    | 70 | 40       |  |
| 450.592            |                    | 10 | 70       |  |
| 451.970            |                    |    | 10       | Womalilla                                      |
| 452.998            |                    | 70 |          |  |
| 456.700            |                    |    |          | Ulandilla                                      |
| 459.200            |                    |    | 70       |  |
| 459.306            |                    | 60 |          |  |
| 459.607            |                    |    | 60       |  |
| 459.709            |                    | 70 |          |  |
| 462.627            |                    | 25 |          |  |
| 463.354            |                    |    | 70       |  |
| 463.660            |                    |    |          | Amboola  |
| 464.329            |                    | 70 |          |  |
| 464.713            |                    |    | 25       |  |
| 467.723            |                    |    | 70       |  |
| 467.826            |                    | 40 |          |  |
| 468.359            |                    |    | 40       |  |
| 468.399            |                    | 60 |          |  |
| 470.296            |                    |    | 60       |  |
| 470.397            |                    | 70 |          |  |
| 472.297            |                    |    | 70       |  |
| 472.394            |                    | 60 |          |  |
| 474.150            |                    | 70 |          |  |
| 474.270            |                    |    | 60       |  |
| 475.212            |                    |    | 70       |  |
| 475.319            |                    | 60 |          |  |
| 475.588            |                    |    | 60       |  |
| 475.688            |                    | 70 |          |  |
| 478.550            |                    | l  | 70       | I I I I I I I I I I I I I I I I I I I          |

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| Maximum Line Sp    | ١       | WESTE | ERN LINE<br>Increasing distance in Up direction |            |
|--------------------|---------|-------|---|------------|
| DISTANCE           | FEATURE | UP    | DN  | COMMENTS   |
| 478.648            | TEATURE | 40    |   | COMMENTO   |
| 478.946            |         | -     | 40  | Mungallala |
| 479.046            |         | 60    |   |            |
| 479.837            |         |       | 60  |            |
| 479.937            |         | 70    |   |            |
| 481.580            |         |       | 70  |            |
| 482.390<br>482.848 |         | 70    |   |            |
| 489.477            |         | 70    | 70  |            |
| 489.558            |         | 60    |   |            |
| 489.771            |         |       | 60  |            |
| 489.829            |         | 40    |   |            |
| 490.036            |         |       | 40  |            |
| 490.147            |         | 60    |   |            |
| 490.512            |         | 70    | 60  |            |
| 490.609<br>498.195 |         | 70    | 70  |            |
| 499.170            |         |       | 70  | Dulbydilla |
| 500.226            |         | 70    |   |            |
| 501.485            |         | -     | 70  |            |
| 501.564            |         | 60    |   |            |
| 502.142            |         |       | 60  |            |
| 502.266            |         | 70    |   |            |
| 503.359            |         |       | 70  |            |
| 503.461            |         | 60    |   |            |
| 503.768            |         | 70    | 60  |            |
| 503.912<br>519.896 |         | 70    | 70  |            |
| 519.996            |         | 60    | 10  |            |
| 520.203            |         | 00    | 60  |            |
| 520.402            |         | 70    |   |            |
| 525.053            |         |       | 70  |            |
| 525.497            |         |       | 50  |            |
| 525.760            |         |       |   | Morven     |
| 525.867            |         | 60    |   |            |
| 526.182            |         | 70    | 60  |            |
| 526.260<br>534.709 |         | 70    | 70  |            |
| 534.709<br>534.810 |         | 60    | 10  |            |
| 535.398            |         |       | 60  |            |
| 535.490            |         | 70    |   |            |
| 537.550            |         |       | 70  |            |
| 537.639            |         | 60    |   |            |
| 538.024            |         |       | 60  |            |
| 538.221            |         | 70    |   |            |
| 548.021            |         |       | 70  | Angellala  |
| 549.150<br>550.102 |         | 70    |   | Angellala  |
| 569.390            |         | 10    |   | Lurnea     |
| 578.324            |         |       | 70  |            |
| 578.540            |         |       |   | Sommariva  |
| 578.806            |         | 70    |   |            |
| 593.866            |         |       | 70  |            |
| 594.050            |         |       |   | Arabella   |
| 594.343            |         | 70    | l   | I I        |

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| Maximum Line S | Speed : 70,60,50kph | ١  | WESTERNLINE<br>Increasing distance in Up direction |                          |  |  |
|----------------|---------------------|----|--|--------------------------|--|--|
| DISTANCE       | FEATURE             | UP | DN   | COMMENTS                 |  |  |
| 614.710        |                     | 25 | 70   |                          |  |  |
| 615.770        |                     |    |  | Charleville              |  |  |
| 615.902        |                     | 20 |  |                          |  |  |
| 616.010        |                     |    | 25   |                          |  |  |
| 616.063        |                     | 25 |  |                          |  |  |
| 616.142        |                     |    | 20   |                          |  |  |
| 616.490        |                     |    |  | Charleville Passing Loop |  |  |
| 616.930        |                     | 60 | 25   |                          |  |  |
| 636.357        |                     | 25 | 60   |                          |  |  |
| 636.450        |                     |    |  | Westgate                 |  |  |
| 636.651        |                     | 60 | 25   |                          |  |  |
| 643.160        |                     |    |  | Wallal                   |  |  |
| 660.810        |                     |    |  | Mangalore                |  |  |
| 670.690        |                     |    |  | Dillalah                 |  |  |
| 677.910        |                     |    |  | Yanna                    |  |  |
| 686.720        |                     |    |  | Murweh                   |  |  |
| 695.140        |                     |    |  | Quilberry                |  |  |
| 702.090        |                     |    |  | South Ray                |  |  |
| 713.570        |                     |    |  | Wyandra                  |  |  |
| 714.280        |                     |    |  | Wyandra Cattle Siding    |  |  |
| 727.200        |                     |    |  | Claverton                |  |  |
| 741.640        |                     |    |  | Mirrabooka               |  |  |
| 747.800        |                     |    |  | Offham                   |  |  |
| 759.030        |                     |    |  | Coongoola                |  |  |
| 767.030        |                     |    |  | Kubill                   |  |  |
| 774.630        |                     |    |  | Nardoo                   |  |  |
| 793.160        |                     |    |  | Phillott                 |  |  |
| 810.760        |                     |    |  | Cunnamulla               |  |  |
|                |                     |    |  |                          |  |  |

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| DISTANCE |         | GREAT WESTERN RAILWAY           Maximum Line Speed : 60kph         Increasing distance in Up direction |    |                 |  |  |  |  |
|----------|---------|--|----|-----------------|--|--|--|--|
|          | FEATURE | UP   | DN | COMMENTS        |  |  |  |  |
| 0.000    |         |  |    | Westgate        |  |  |  |  |
| 0.210    |         | 60   | 25 |                 |  |  |  |  |
| 6.930    |         |  |    | Warrego River   |  |  |  |  |
| 19.390   |         |  |    | Myendetta       |  |  |  |  |
| 30.770   |         |  |    | Wanko           |  |  |  |  |
| 46.910   |         |  |    | Coothalla       |  |  |  |  |
| 56.310   |         |  |    | Loddon          |  |  |  |  |
| 78.750   |         |  |    | Cooladdi        |  |  |  |  |
| 95.750   |         |  |    | Yalamurra       |  |  |  |  |
| 112.793  |         | 50   | 60 |                 |  |  |  |  |
| 113.000  |         | 60   | 50 |                 |  |  |  |  |
| 123.070  |         |  |    | Bierbank Siding |  |  |  |  |
| 124.330  |         |  |    | Cheepie         |  |  |  |  |
| 158.380  |         |  |    | Winbin          |  |  |  |  |
| 166.500  |         |  |    | Coolbinga       |  |  |  |  |
| 200.341  |         | 25   | 60 |                 |  |  |  |  |
| 200.720  |         |  |    | Quilpie         |  |  |  |  |

| Maximum Line S | JAN     | <b>IDOW</b> | AE BRANCH<br>Increasing distance in Up direction |                    |
|----------------|---------|-------------|--|--------------------|
| DISTANCE       | FEATURE | UP          | DN   | COMMENTS           |
| 12.400         |         |             |  | Karingal           |
| 17.660         |         |             |  | Pirrinuan          |
| 26.400         |         |             |  | Jimbour            |
| 28.040         |         |             |  | Baigin             |
| 32.001         |         |             |  |                    |
| 32.750         |         |             |  | Kuyura             |
| 35.650         |         |             |  | Cresley            |
| 40.040         |         |             |  | Marnhull           |
| 45.842         |         |             |  |                    |
| 46.240         |         |             |  | Jandowae Graincorp |
| 48.175         |         |             |  |                    |
| 48.510         |         |             |  | Jandowae           |
|                |         |             |  |                    |

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| STANCE           | FEATURE | UP  | DN  | COMMENTS               |
|------------------|---------|-----|-----|------------------------|
| 1.040            | FEATORE | UF  | DN  | Natcha                 |
|                  |         | 50  | 25  | Natcha                 |
| 1.273            |         | 50  | 25  | Distant                |
| 1.570<br>2.800   |         |     |     | Diplock<br>Delky West  |
| 3.670            |         |     |     | Dalby West<br>Yumborra |
| 3.670<br>11.490  |         |     |     | Nandi                  |
| 17.010           |         |     |     | Kupunn                 |
| 23.390           |         |     |     | Duleen                 |
| 23.390           |         |     |     | Ducklo                 |
| 28.000           |         | 60  | 50  | Duckio                 |
| 36.210           |         | 60  | 50  | Gulera                 |
| 42.319           |         | 25  | 60  | Guiera                 |
| 43.140           |         | 25  | 00  | Kumbarilla             |
| 43.229           |         | 60  | 25  | Kumbarma               |
| 46.100           |         | 70  | 60  |                        |
| 57.720           |         | 10  | 00  | Weranga                |
| 71.150           |         |     |     | Goranba                |
| 84.966           |         | 40  | 70  | Goranba                |
| 85.080           |         | 40  | 10  | Tara                   |
| 85.907           |         | 40  | 40  |                        |
| 92.430           |         | 40  | -10 | Tullagrie              |
| 92.430<br>99.880 |         |     |     | South Glen             |
| 107.000          |         |     |     | Cabawin                |
| 110.251          |         | 10L |     |                        |
| 111.016          |         |     | 10R |                        |
| 113.550          |         |     | 101 | The Gums               |
| 125.500          |         |     |     | Hannaford              |
| 141.932          |         | 25  | 40  |                        |
| 143.201          |         | 40  | 25  |                        |
| 143.220          |         | 30  | 20  | Meandarra              |
| 165.000          |         | 00  |     |                        |
| 165.430          |         |     | 30  | Glenmorgan             |

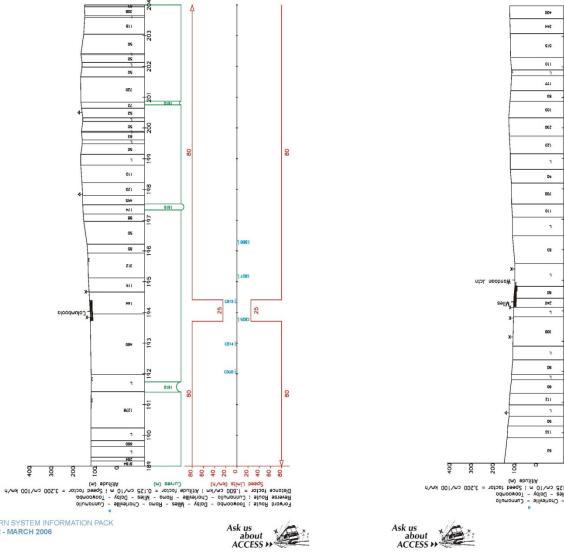
| WANDOAN BRANCH           Maximum Line Speed : 30kph         Increasing distance in Up direction |   |    |    |  |          |  |  |
|---|---|----|----|--|----------|--|--|
| DISTANCE  | FEATURE   | UP | DN |  | COMMENTS |  |  |
| 10.650<br>20.800<br>30.770<br>38.890<br>50.570<br>57.090<br>66.620                              | Speedboard<br>Location<br>Station<br>Location<br>Station<br>Location<br>Station<br>Location<br>Station<br>Station | 30 | 30 | Dalwogan<br>Kowguran<br>Gurulmundi<br>Giligulgul<br>Guluguba<br>Burunga<br>Wubagul<br>Whiteley's Siding<br>Wandoan |          |  |  |

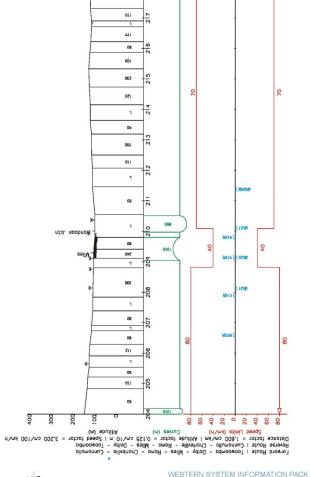




Track Data & Grade Diagrams





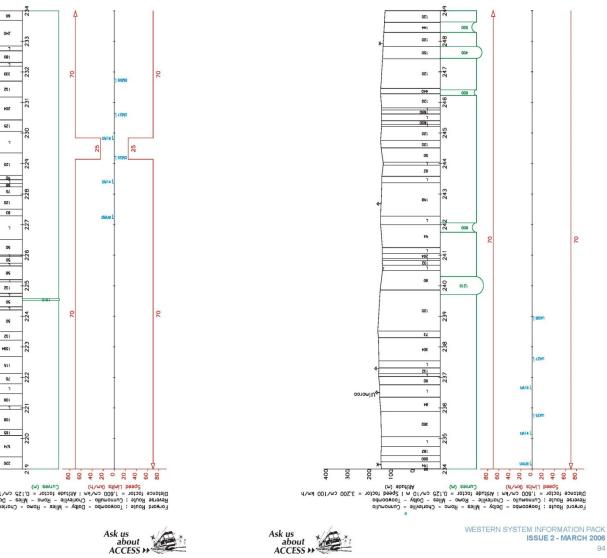


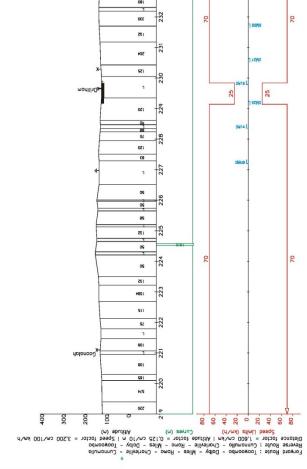
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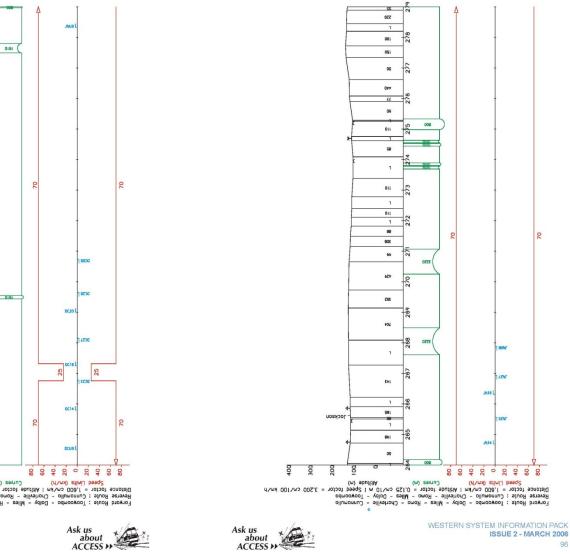
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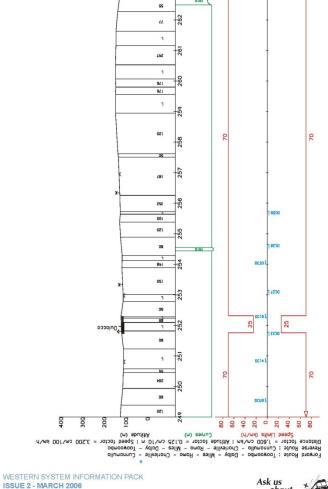


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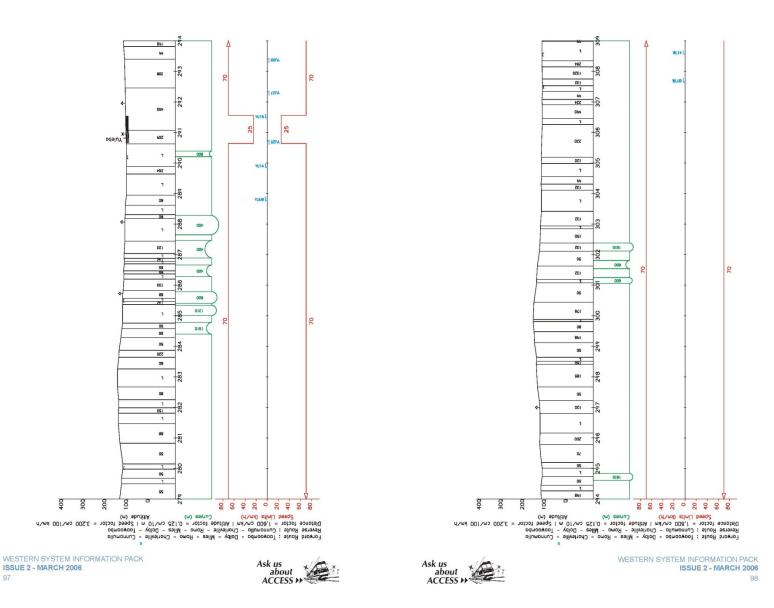
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591









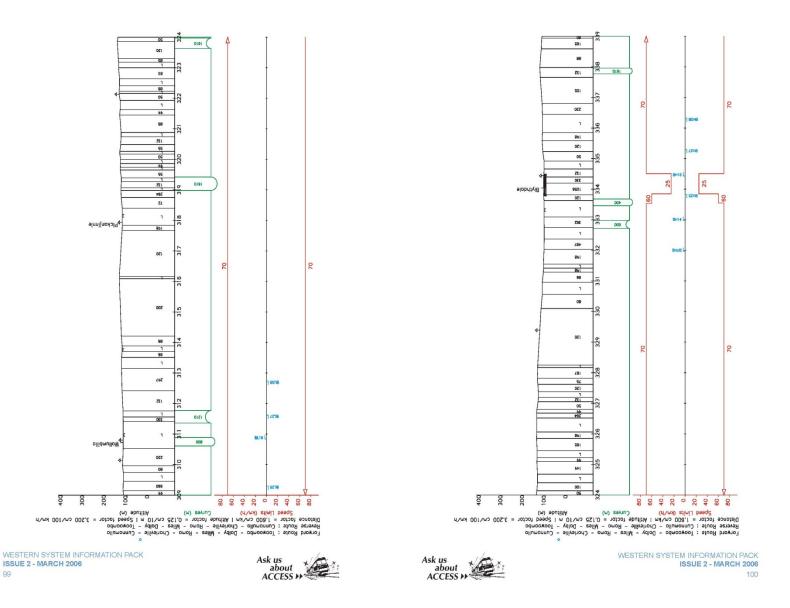
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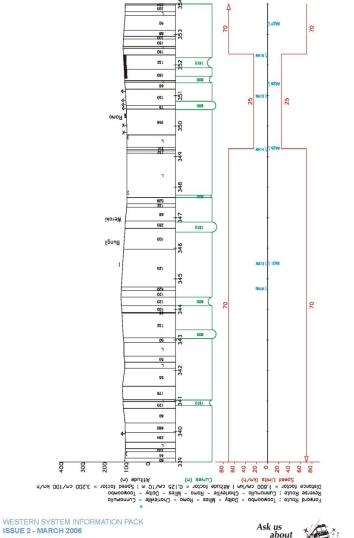
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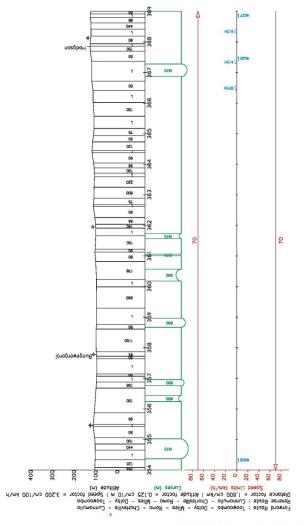
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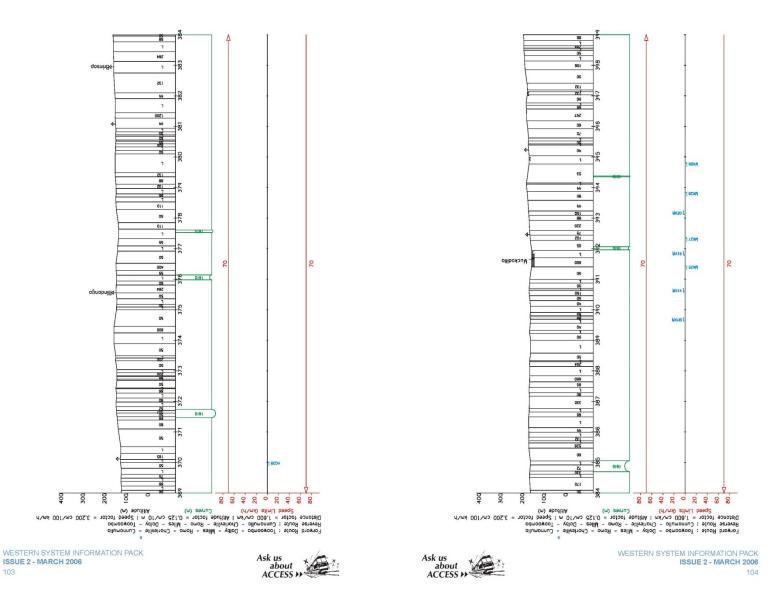
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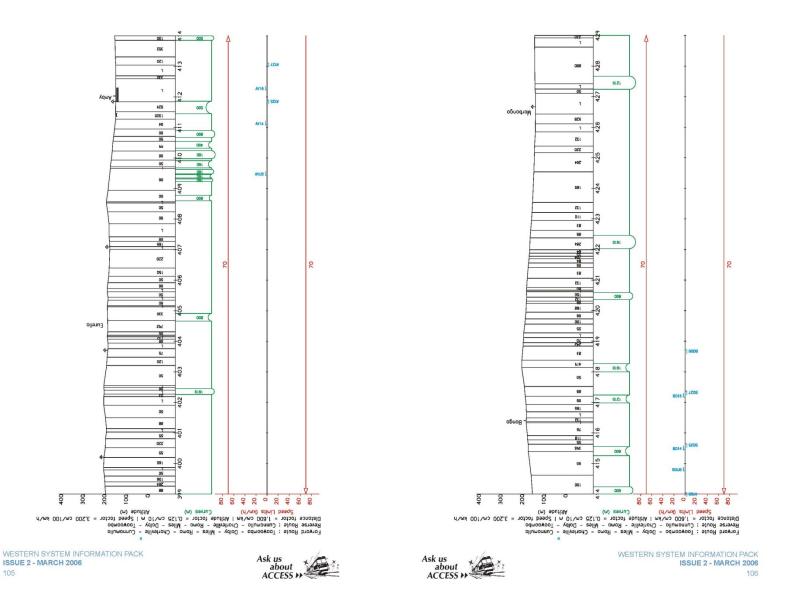




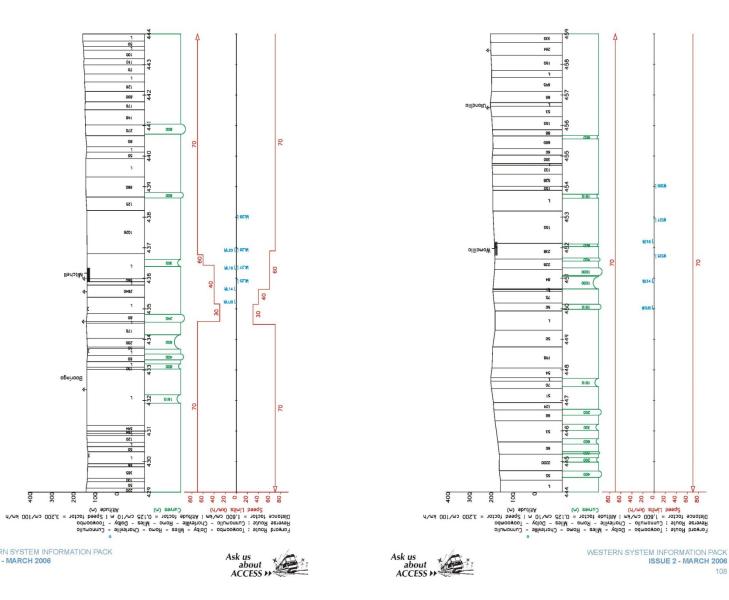


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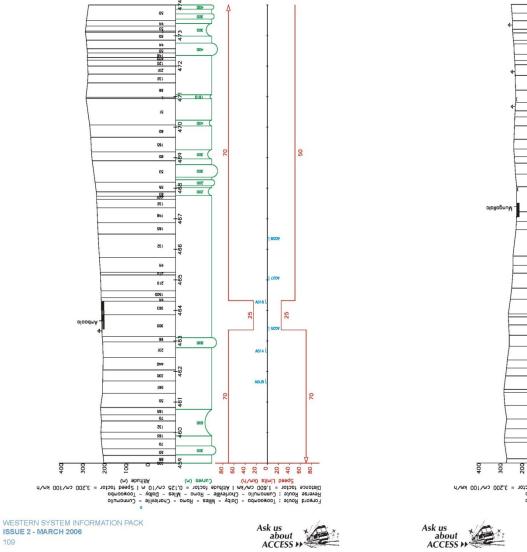
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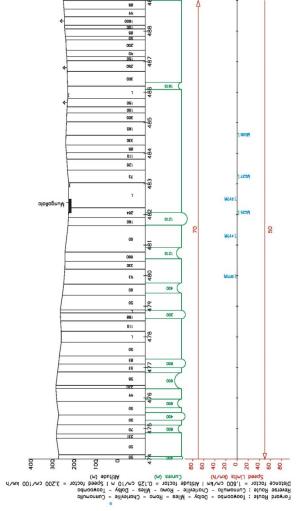
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Ilensi M

Booringo







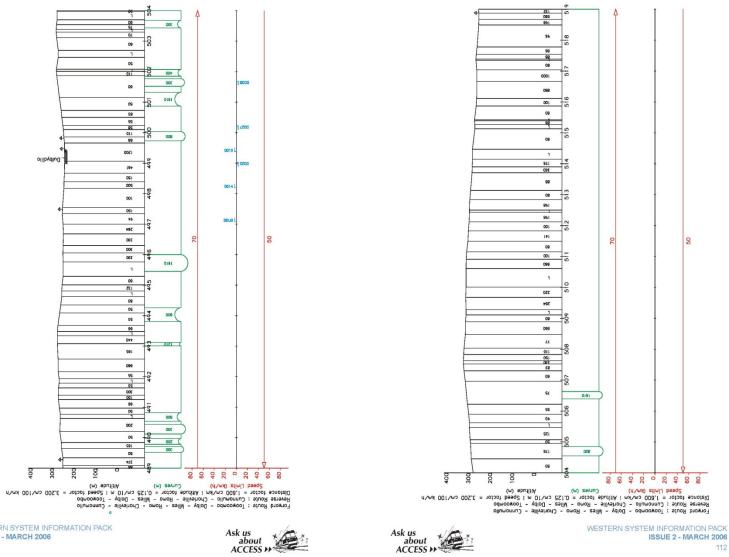
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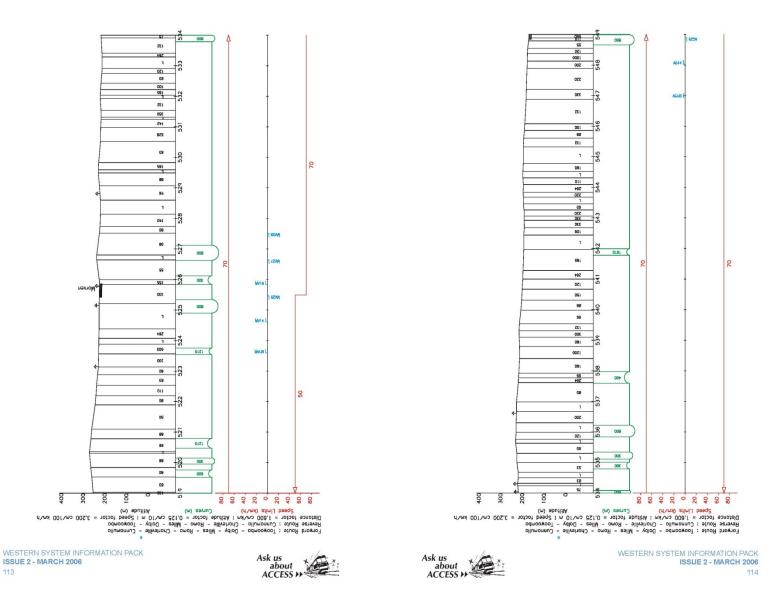
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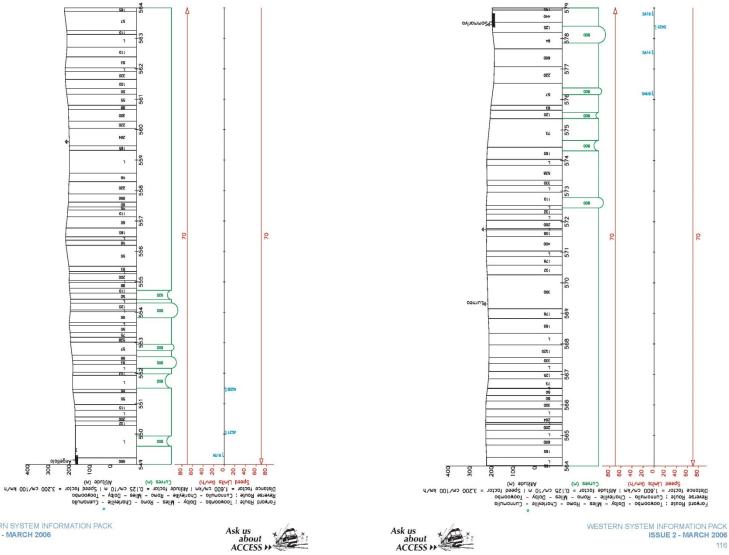
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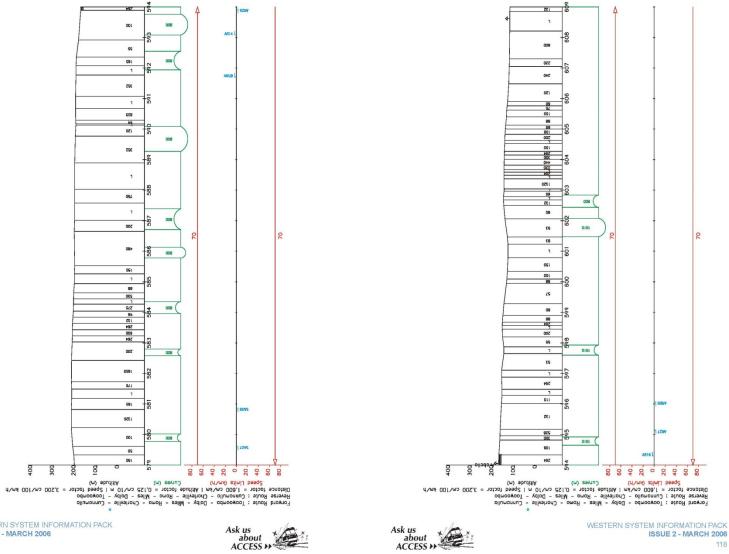
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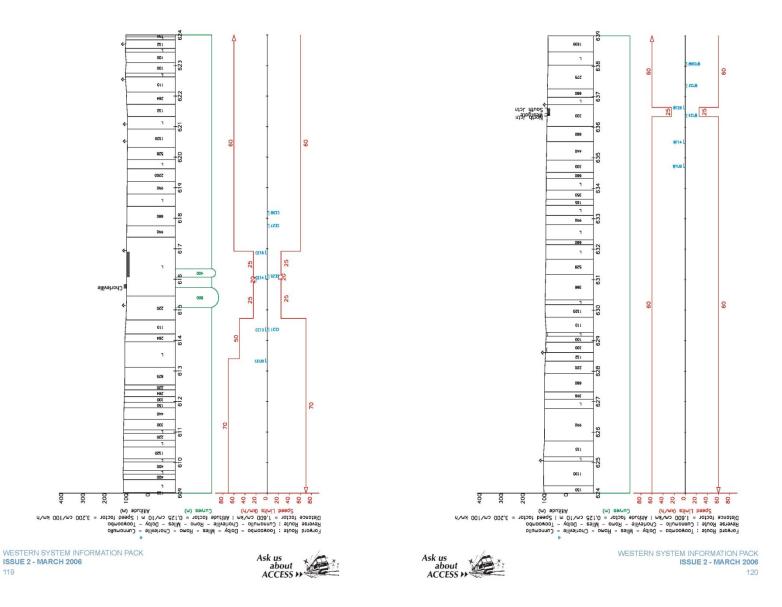
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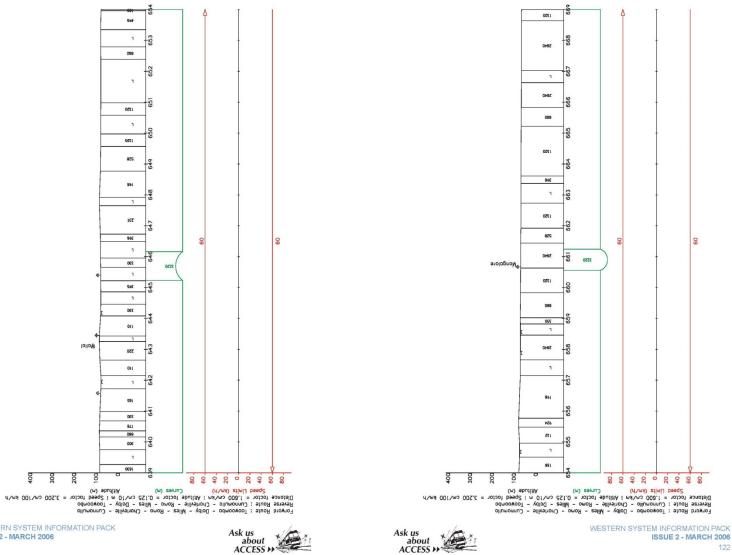
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119









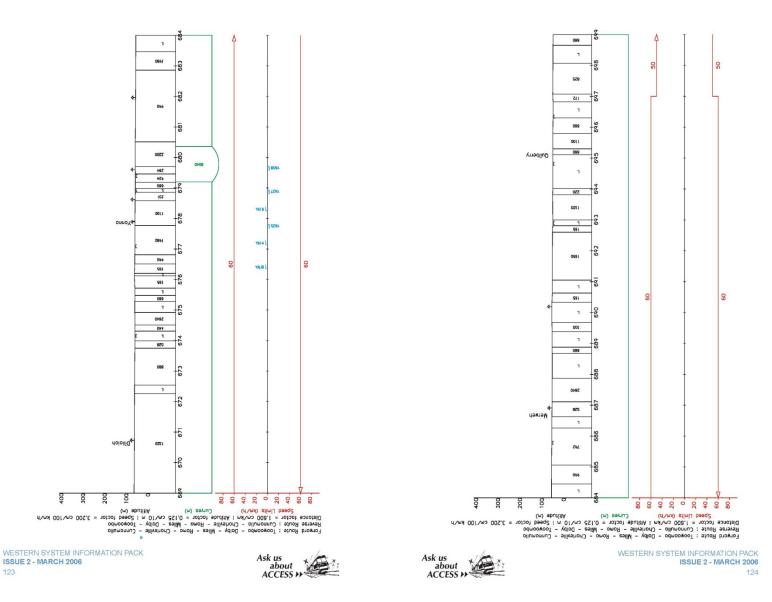
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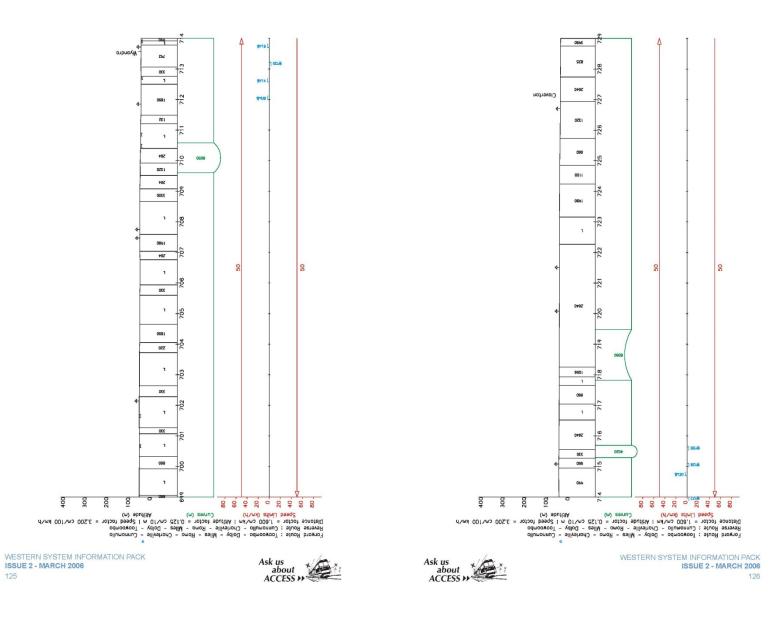


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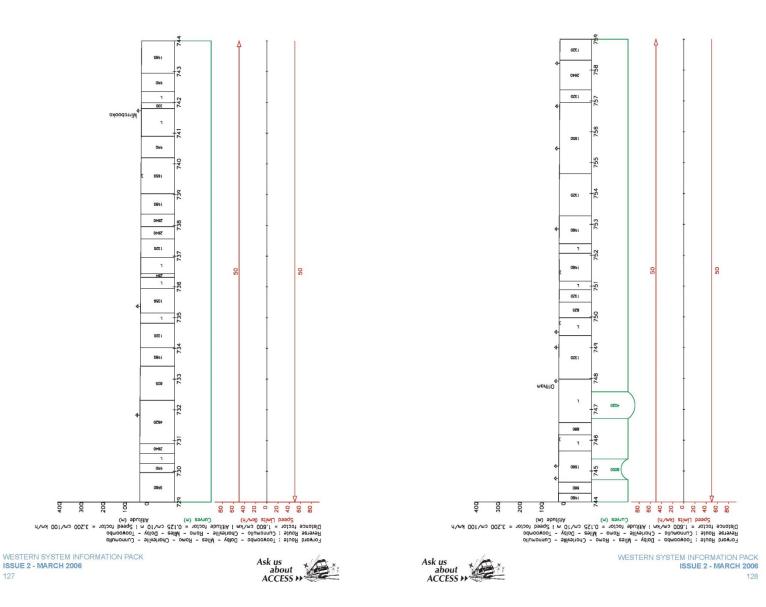
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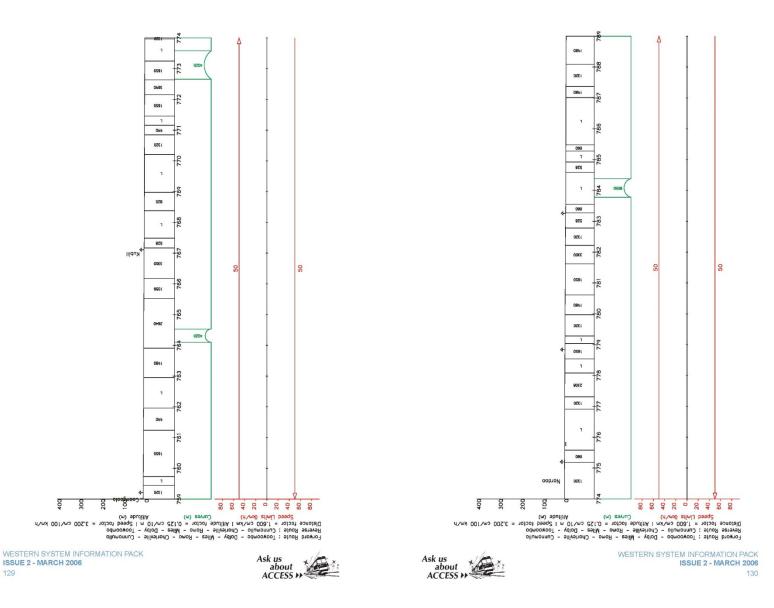


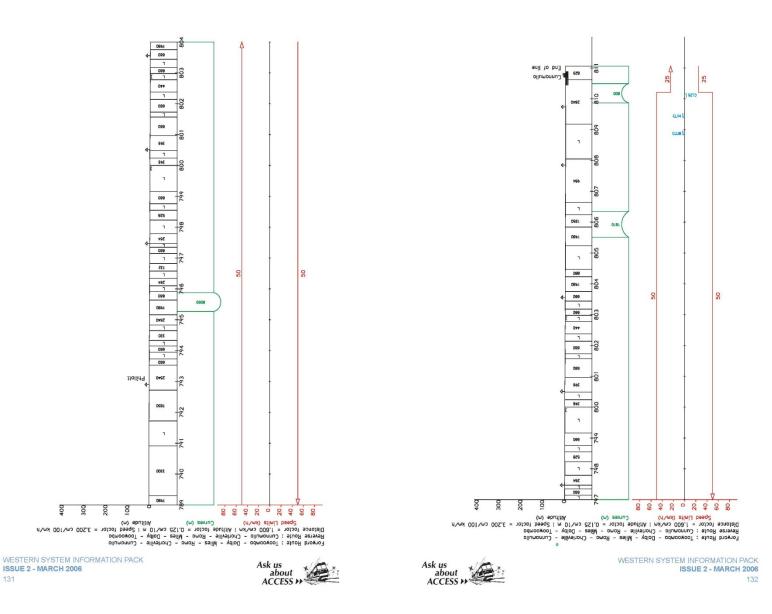






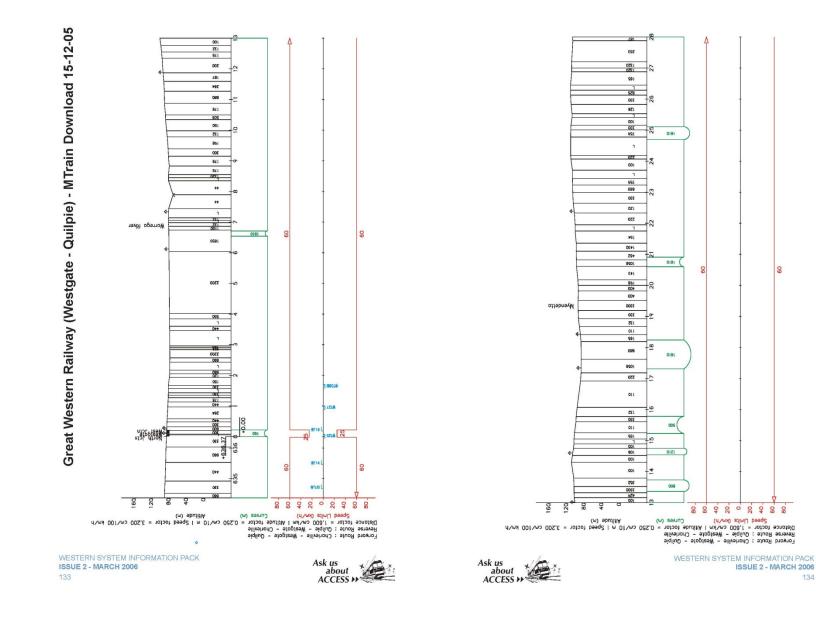






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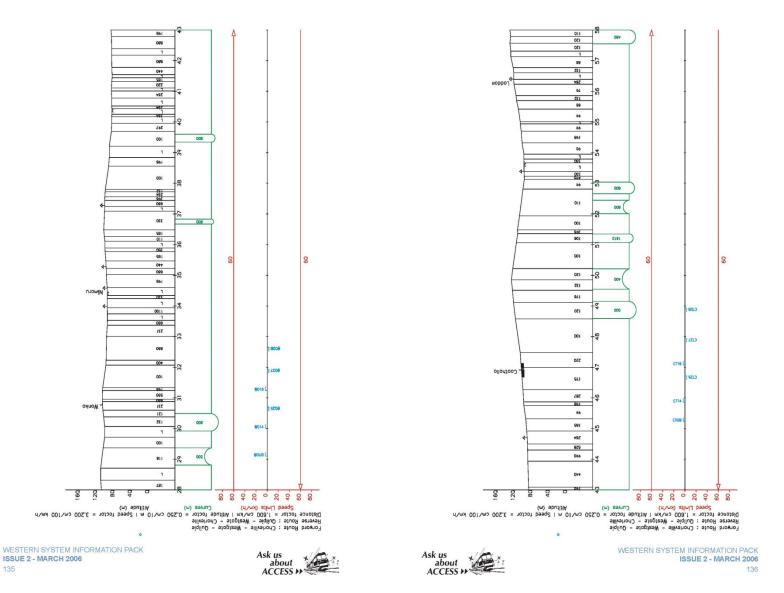
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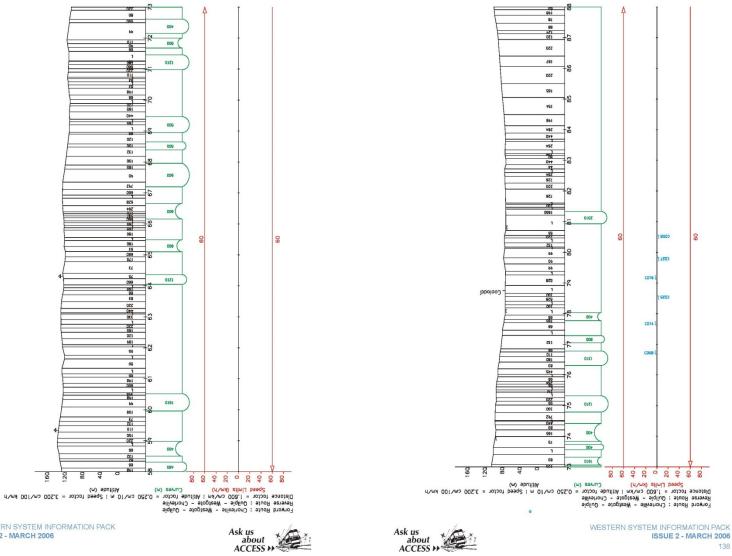
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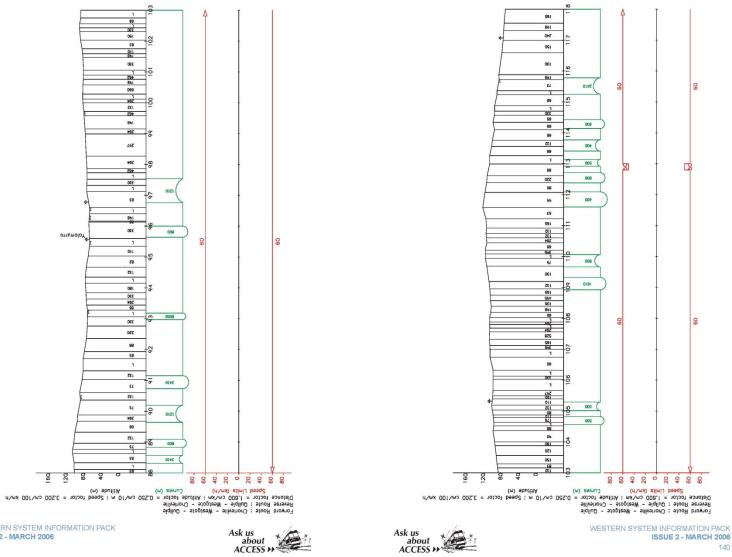






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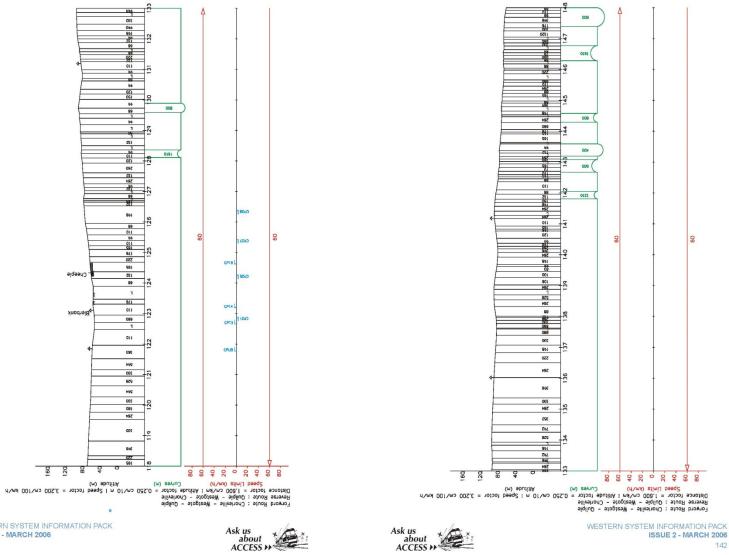






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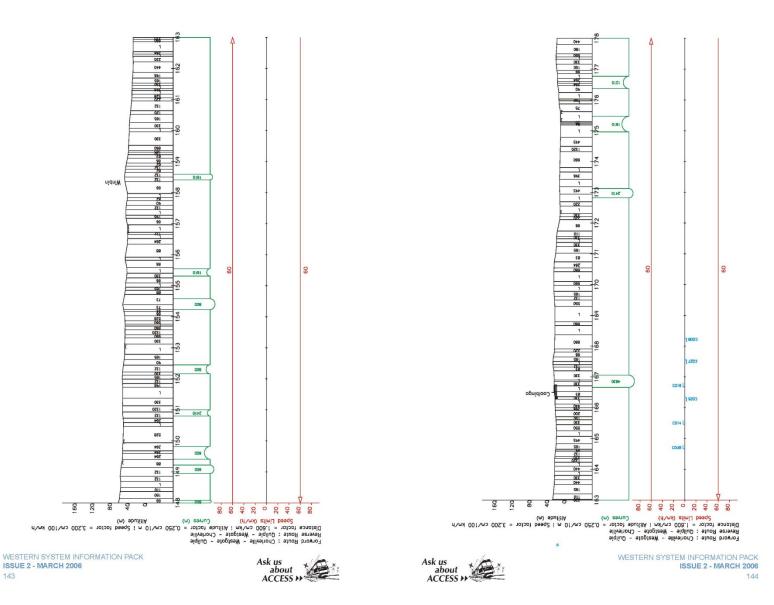
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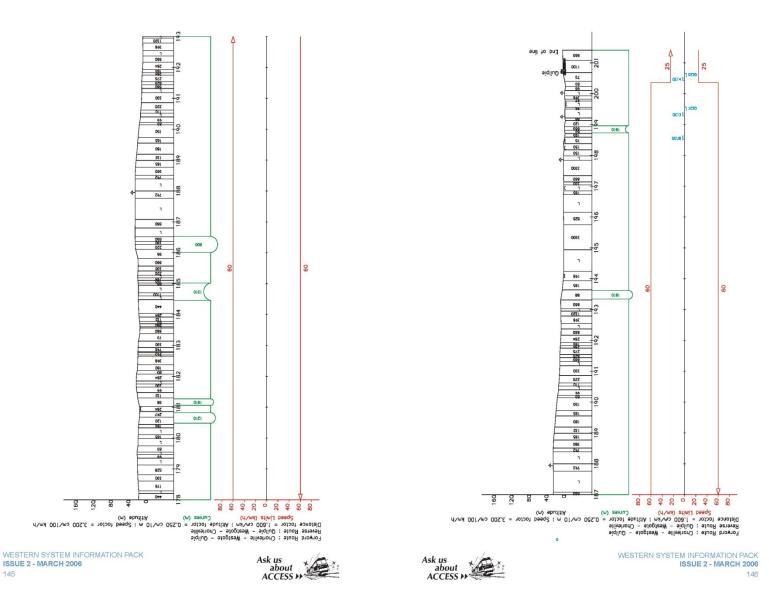
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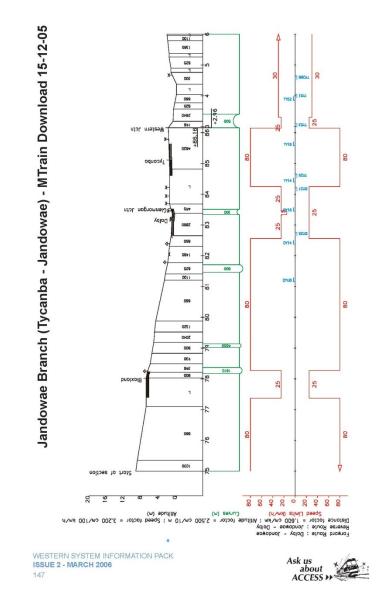


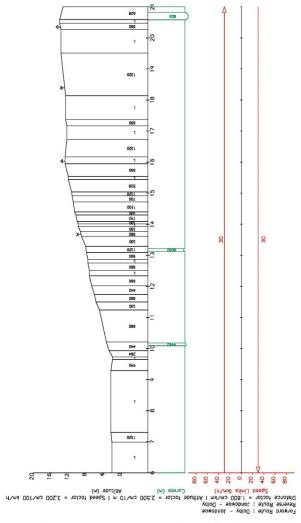






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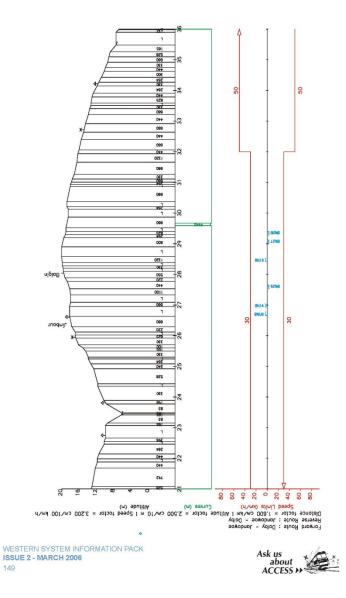


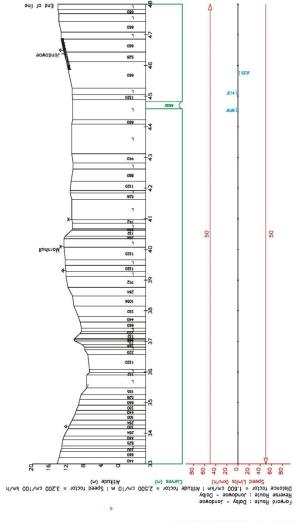


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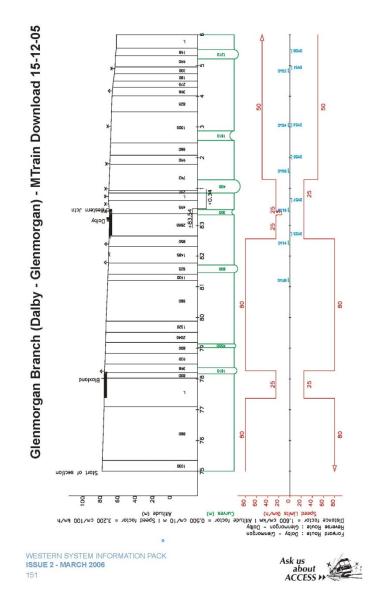


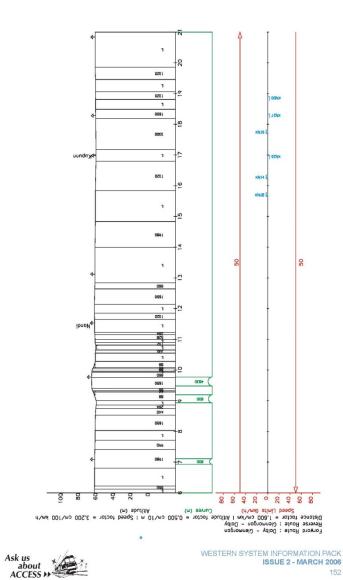
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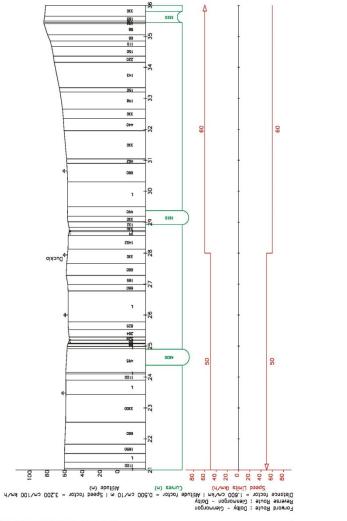


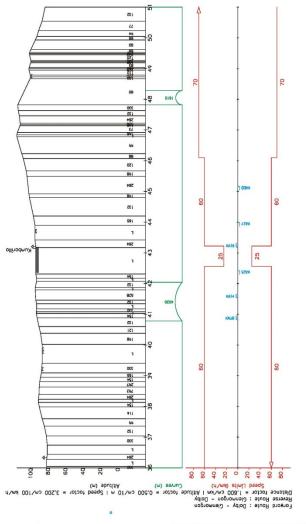
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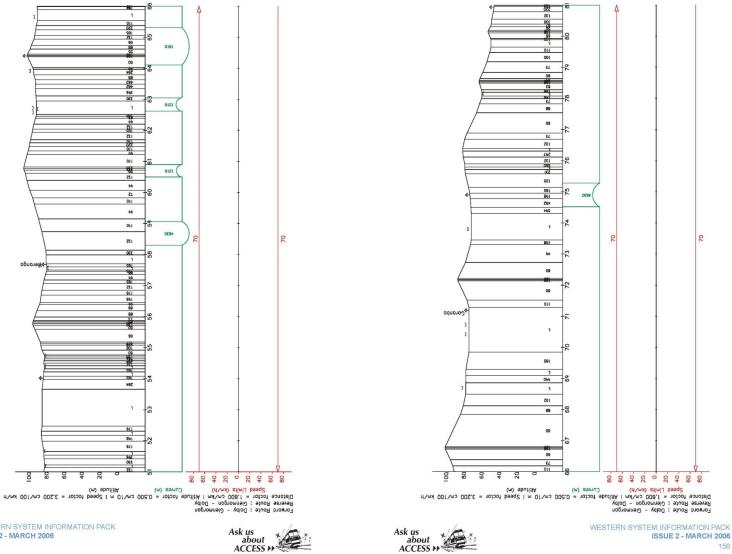


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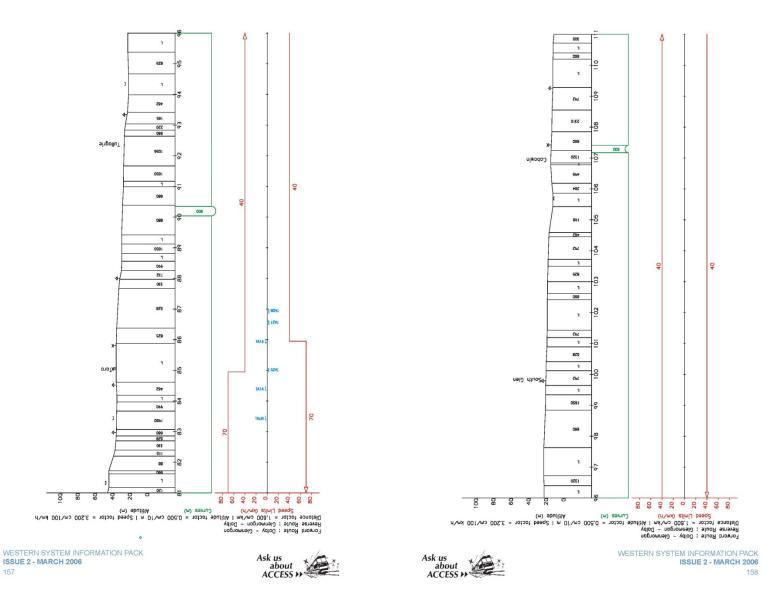


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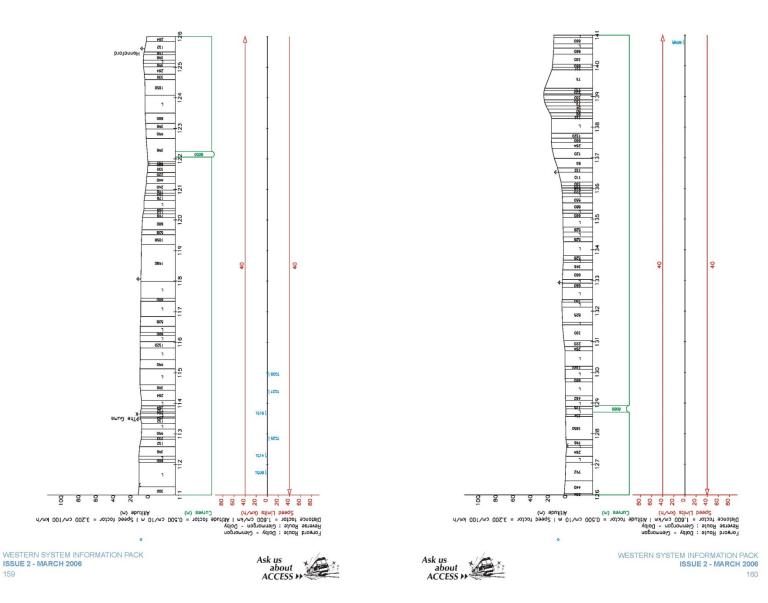
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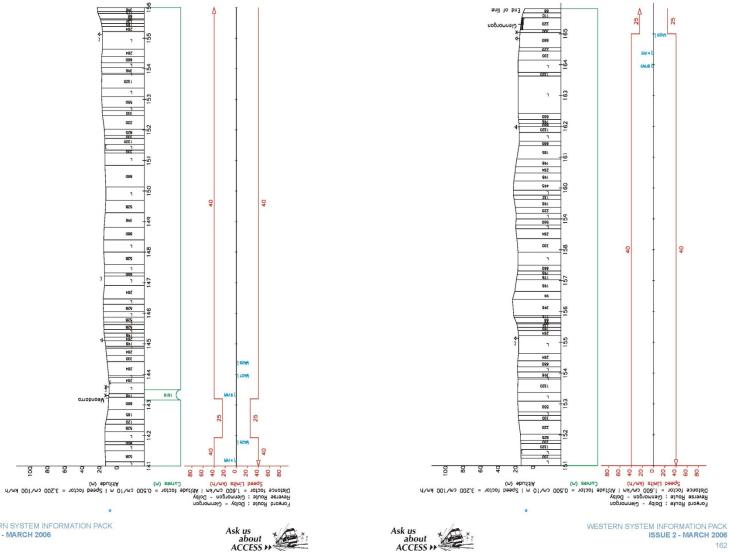




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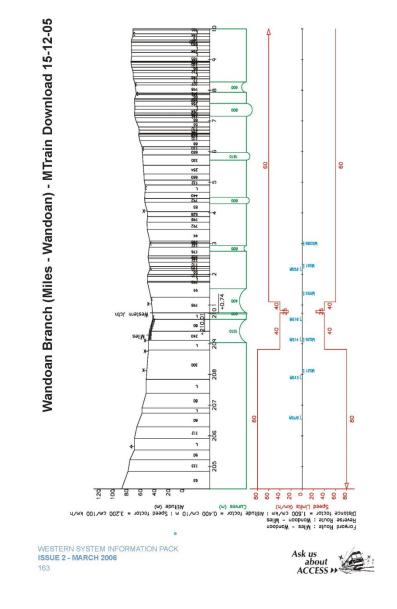
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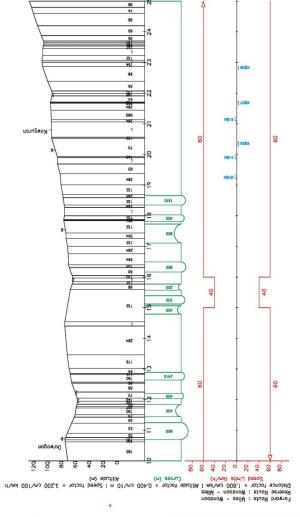
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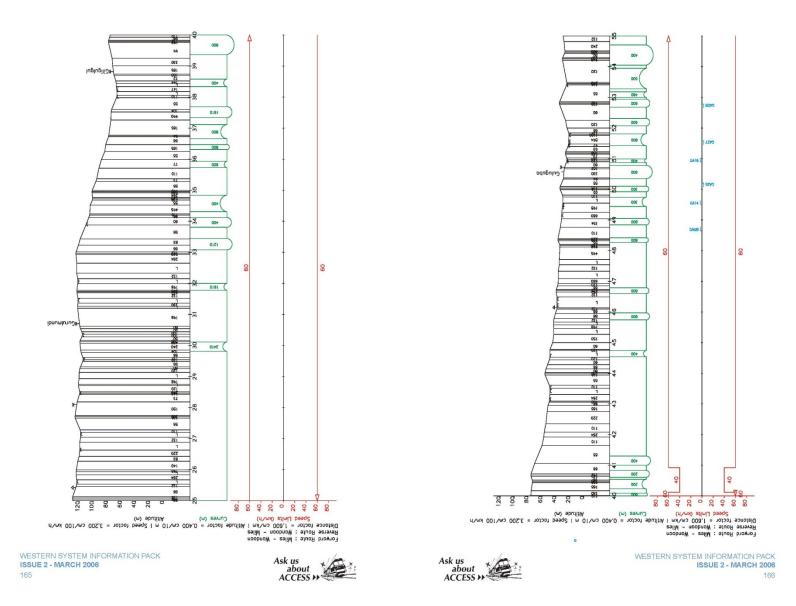




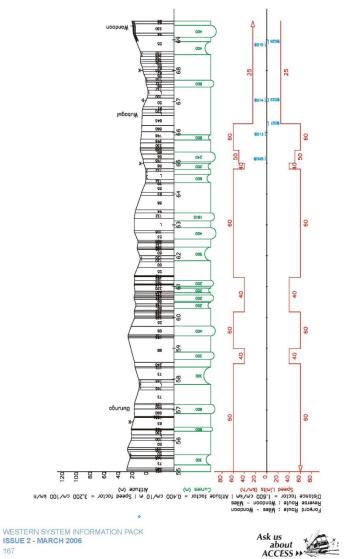
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# **APPENDIX F**

## Sectional Running Times

| CONTROL                                |   | CATTLE                            | CATTLE                            | CATTLE       | CATTLE       |
|--|---|-----------------------------------|-----------------------------------|--------------|--------------|
| CONTROL                                |   | Cattle Trains on the Western Line | Cattle Trains on the Western Line |              |              |
|  |   | Pass - Pass                       | Pass - Stop                       | Start - Pass | Start - Stop |
| Brisbane Far West                      | Columboola to Miles                               | 21                                | 23                                | 24           | 26           |
| Brisbane Far West                      | Chinchilla to Brigalow                            | 25                                | 27                                | 28           | 30           |
| Brisbane Far West<br>Brisbane Far West | Brigalow to Warra<br>Warra to Macalister          | 20 20                             | 22<br>22                          | 23 23        | 25<br>25     |
| Brisbane Far West                      | Macalister to Baining                             | 15                                | 17                                | 18           | 20           |
| Brisbane Far West                      | Baining to Tycanba                                | 10                                | 12                                | 13           | 15           |
| Brisbane Far West                      | Coongoola to Wyandra                              |                                   |                                   | -            |              |
| Brisbane Far West                      | Cooladdi to Cheepie                               | 70                                | 72                                | 73           | 75           |
| Brisbane Far West                      | Cheepie to Coolbinga                              | 65                                | 67                                | 68           | 70           |
| Brisbane Far West                      | Coolbinga to Quilpie                              | 55                                | 57                                | 58           | 60           |
| Brisbane Far West                      | Cooladdi to Coothalla                             | 50                                | 52                                | 53           | 55           |
| Brisbane Far West<br>Brisbane Far West | Coothalla to Wanko<br>Wanko to Westgate           | 25<br>50                          | 27<br>52                          | 28<br>53     | 30<br>55     |
| Brisbane Far West                      | Cunnamulla to Coongoola                           |                                   | 52                                |              |              |
| Brisbane Far West                      | Coongola - Offham                                 |                                   |                                   |              |              |
| Brisbane Far West                      | OFF - WYR   |                                   |                                   |              |              |
| Brisbane Far West                      | Dalby to Kupunn                                   |                                   |                                   |              |              |
| Brisbane Far West                      | Kupunn to Kumbarilla                              |                                   |                                   |              |              |
| Brisbane Far West                      | Kumbarilla to Tara                                |                                   |                                   |              |              |
| Brisbane Far West<br>Brisbane Far West | Tara to The Gums                                  |                                   |                                   |              |              |
| Brisbane Far West                      | The Gums to Meandarra<br>Meandarra to Glenmorgan  |                                   |                                   |              |              |
| Brisbane Far West                      | Dalby to Blaxland                                 | 7                                 | 9                                 | 10           | 12           |
| Brisbane Far West                      | Blaxland to Koomi                                 | 13                                | 15                                | 16           | 18           |
| Brisbane Far West                      | Koomi to Bowenville                               | 15                                | 17                                | 18           | 20           |
| Brisbane Far West                      | Bowenville to Malu                                | 10                                | 12                                | 13           | 15           |
| Brisbane Far West                      | Malu to Jondaryan Coal Siding                     | 5                                 | 7                                 | 8            | 10           |
| Brisbane Far West                      | Jondaryan Coal Siding to Oakey                    | 20                                | 22                                | 23           | 25           |
| Brisbane Far West<br>Brisbane Far West | Dalby to Tycanba<br>Glenmorgan to Meandarra       | 5                                 | 7                                 | 8            | 10           |
| Brisbane Far West                      | Meandarra to The Gums                             |                                   |                                   |              |              |
| Brisbane Far West                      | The Gums to Tara                                  |                                   |                                   |              |              |
| Brisbane Far West                      | Tara to Kumbarilla                                |                                   |                                   |              |              |
| Brisbane Far West                      | Kumbarilla to Kupunn                              |                                   |                                   |              |              |
| Brisbane Far West                      | Kupunn to Dalby                                   |                                   |                                   |              |              |
| Brisbane Far West                      | Jandowae to Baigin                                |                                   |                                   |              |              |
| Brisbane Far West                      | Baigin to Tycanba                                 |                                   | 22                                |              | 05           |
| Brisbane Far West<br>Brisbane Far West | Miles to Columboola                               | 20                                | 22                                | 23           | 25<br>19     |
| Brisbane Far West                      | Columboola to Rywung<br>Rywung to Chinchilla      | 20                                | 22                                | 23           | 25           |
| Brisbane Far West                      | Miles to Drillham                                 | 25                                | 27                                | 28           | 30           |
| Brisbane Far West                      | Drillham to Ulimaroa                              | 7                                 | 9                                 | 10           | 12           |
| Brisbane Far West                      | Ulimaroa to Dulacca                               | 15                                | 17                                | 18           | 20           |
| Brisbane Far West                      | Dulacca to Jackson                                | 16                                | 18                                | 19           | 21           |
| Brisbane Far West                      | Jackson to Yuleba                                 | 28                                | 30                                | 31           | 33           |
| Brisbane Far West                      | Yuleba to Wallumbilla                             | 22                                | 24                                | 25           | 27           |
| Brisbane Far West<br>Brisbane Far West | Wallumbilla to Blythdale                          | 22 20                             | 24<br>22                          | 25<br>23     | 27<br>25     |
| Brisbane Far West                      | Blythdale to Roma<br>Miles to Kowguran            | 31                                | 33                                | 34           | 36           |
| Brisbane Far West                      | Kowguran to Guluguba                              | 41                                | 43                                | 44           | 46           |
| Brisbane Far West                      | Guluguba to Wandoan                               | 28                                | 30                                | 31           | 33           |
| Brisbane Far West                      | Mungallala to Dulbydilla                          | 21                                | 23                                | 24           | 26           |
| Brisbane Far West                      | Dulbydilla to Morven                              | 27                                | 29                                | 30           | 32           |
| Brisbane Far West                      | Morven to Angellala                               | 24                                | 26                                | 27           | 29           |
| Brisbane Far West                      | Angellala to Sommariva                            | 32                                | 34                                | 35           | 37           |
| Brisbane Far West<br>Brisbane Far West | Sommariva to Arabella<br>Arabella to Charleville  | 18 25                             | 20<br>27                          | 21<br>28     | 23 30        |
| Brisbane Far West                      | Mungallala to Amboola                             | 25                                | 27                                | 28           | 30           |
| Brisbane Far West                      | Amboola to Womalilla                              | 14                                | 16                                | 17           | 19           |
| Brisbane Far West                      | Womalilla to Mitchell                             | 26                                | 28                                | 29           | 31           |
| Brisbane Far West                      | Mitchell to Bongo                                 | 23                                | 25                                | 26           | 28           |
| Brisbane Far West                      | Bongo to Amby                                     | 5                                 | 7                                 | 8            | 10           |
| Brisbane Far West                      | Amby to Muckadilla                                | 25                                | 27                                | 28           | 30           |
| Brisbane Far West                      | Muckadilla to Hodgson                             | 25                                | 27                                | 28           | 30           |
| Brisbane Far West<br>Brisbane Far West | Hodgson to Roma<br>Oakey to Jondaryan Coal Siding | 32                                | 34<br>18                          | 35<br>19     | 37 21        |
| Brisbane Far West                      | Jondaryan Coal Siding                             | 4                                 | 6                                 | 7            | 9            |
| Brisbane Far West                      | Malu to Bowenville                                | 10                                | 12                                | 13           | 15           |
| Brisbane Far West                      | Bowenville to Koomi                               | 12                                | 14                                | 15           | 17           |
| Brisbane Far West                      | Koomi to Blaxland                                 | 13                                | 15                                | 16           | 18           |
| Brisbane Far West                      | Blaxland to Dalby                                 | 10                                | 12                                | 13           | 15           |
| Brisbane Far West                      | Oakey to Kingsthorpe                              | 15                                | 17                                | 18           | 20           |
| Brisbane Far West                      | Kingsthorpe to Gowrie                             | 15<br>20                          | 17 22                             | 18 23        | 20<br>25     |
| Brisbane Far West<br>Brisbane Far West | Gowrie to Willowburn<br>Willowburn to Toowoomba   | 20                                | 10                                | 10           | 25           |
| Brisbane Far West                      | Quilpie to Coolbinga                              | 55                                | 57                                | 58           | 60           |
| Brisbane Far West                      | Coolbinga to Cheepie                              | 70                                | 72                                | 73           | 75           |
| Brisbane Far West                      | Cheepie to Cooladdi                               | 75                                | 77                                | 78           | 80           |
| Brisbane Far West                      | Roma to Blythdale                                 | 20                                | 22                                | 23           | 25           |
| Brisbane Far West                      | Blythdale to Wallumbilla                          | 22                                | 24                                | 25           | 27           |
| Brisbane Far West                      | Wallumbilla to Yuleba                             | 22                                | 24                                | 25           | 27           |
| Brisbane Far West                      | Yuleba to Jackson                                 | 26                                | 28                                | 29           | 31           |
| Brisbane Far West                      | Jackson to Dulacca                                | 14                                | 16                                | 17           | 19           |
| Brisbane Far West                      | Dulacca to Ulimaroa                               | 20                                | 22                                | 23           | 25           |



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| Brisbane Far West | Ulimaroa to Drillham  | 5  | 7  | 8  | 10 |
|-------------------|-----------------------|----|----|----|----|
| Brisbane Far West | Drillham to Miles     | 22 | 24 | 25 | 27 |
| Brisbane Far West | Roma to Hodgson       | 23 | 25 | 26 | 28 |
| Brisbane Far West | Hodgson to Muckadilla | 21 | 23 | 24 | 26 |
| Brisbane Far West | Muckadilla to Amby    | 21 | 23 | 24 | 26 |
| Brisbane Far West | Amby to Bongo         | 5  | 7  | 8  | 10 |
| Brisbane Far West | Bongo to Mitchell     | 20 | 22 | 23 | 25 |
| Brisbane Far West | Mitchell to Womalilla | 34 | 36 | 37 | 39 |
| Brisbane Far West | Womalilla to Amboola  | 11 | 13 | 14 | 16 |
| Brisbane Far West | Amboola to Mungallala | 23 | 25 | 26 | 28 |

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# **APPENDIX G**

Altitudes

#### Metres above Mean Sea Level

| Miles<br>Drillham<br>Ulimaroa<br>Dulacca | 303<br>326<br>353<br>323 |
|--|--------------------------|
| Jackson<br>Channing                      | 317<br>312               |
| Yuleba                                   | 301                      |
| Wallumbilla                              | 311                      |
| Pickanjinnie                             | 316                      |
| Blythdale                                | 301                      |
| Roma                                     | 299                      |
| Bungeworgorai                            | 298                      |
| Hodgson                                  | 325                      |
| Bindango                                 | 347                      |
| Muckadilla                               | 358                      |
| Amby                                     | 347                      |
| Marbango                                 | 339                      |
| Mitchell<br>Womallila                    | 338<br>383               |
| Ulandilla                                | 303<br>403               |
| Amboola                                  | 411                      |
| Mungallala                               | 424                      |
| Dulbydilla                               | 441                      |
| Morven                                   | 423                      |
| Angellala                                | 367                      |
| Lurnea                                   | 414                      |
| Sommariva                                | 394                      |
| Arabella                                 | 365                      |
| Charleville                              | 296                      |
| Westgate                                 | 285                      |
| Wallal                                   | 283                      |
| Mangalore                                | 268                      |
| Dillalah                                 | 262                      |
| Yanna<br>Murweh                          | 259<br>253               |
| Quilberry                                | 255<br>248               |
| South Ray                                | 245                      |
| Wyandra                                  | 237                      |
|  |                          |

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### Metres above Mean Sea Level

| Claverton     | 229 |
|---------------|-----|
| Mirrabooka    | 221 |
| Offham        | 217 |
| Coongoola     | 212 |
| Kubill        | 208 |
| Nardoo        | 204 |
| Phillott      | 196 |
| Cunnamulla    | 189 |
| Westgate      | 285 |
| Warrego River | 281 |
| Myendetta     | 293 |
| Wanko         | 296 |
| Coothalla     | 297 |
| Loddon        | 313 |
| Cooladdi      | 265 |
| Yalamurra     | 258 |
| Cheepie       | 255 |
| Winbin        | 240 |
| Coolbinga     | 219 |
| Quilpie       | 197 |
| Dalby         | 343 |
| Jimbour       | 361 |
| Marnhull      | 356 |
| Jandowae      | 357 |
| Dalby         | 343 |
| Natcha        | 342 |
| Yumborra      | 340 |
| Nandi         | 334 |
| Kupunn        | 334 |
| Kumbarilla    | 370 |
| Tara          | 312 |
| The Gums      | 284 |
| Hannaford     | 280 |
| Meandarra     | 282 |
| Glenmorgan    | 284 |
| Miles         | 303 |
| Dalwogan      | 328 |
| Kowguran      | 347 |
| Gurulmundi    | 371 |
| Guluguba      | 282 |
| Wubagul       | 258 |
| Wandoan       | 272 |



