Strathfield – Hornsby

Network Control

Signaller at Rail Operations Centre (ROC) (Strathfield panel) (Epping Panel) (Hornsby North Panel) (Hornsby Panel).

Systems of Safeworking

The line between Strathfield and Hornsby is Rail Vehicle Detection (RVD) territory. It includes the sections:

- Strathfield-Rhodes
- Rhodes-West Ryde
- West Ryde-Epping
- Epping-Thornleigh
- Thornleigh-Hornsby.

Diagram

(6)

5

4

3

Location details

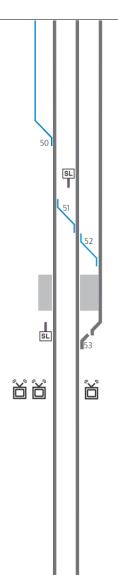
Strathfield 11.713km (NLA 114)



- ① Up Main line (Central–Lidcombe)
- ② Down Main line (Central–Lidcombe)
- ③ Up Suburban line (Central-Lidcombe)
- 4 Down Suburban line (Central–Lidcombe)
- 5 Up Local line (Central–Lidcombe)
- ⑥ Down Local line (Central–Lidcombe)
- 7 Goods Loop line
- ® Down Relief line
- Down Main North line
- 10 Up Main North line

(10)

Strathfield - Hornsby



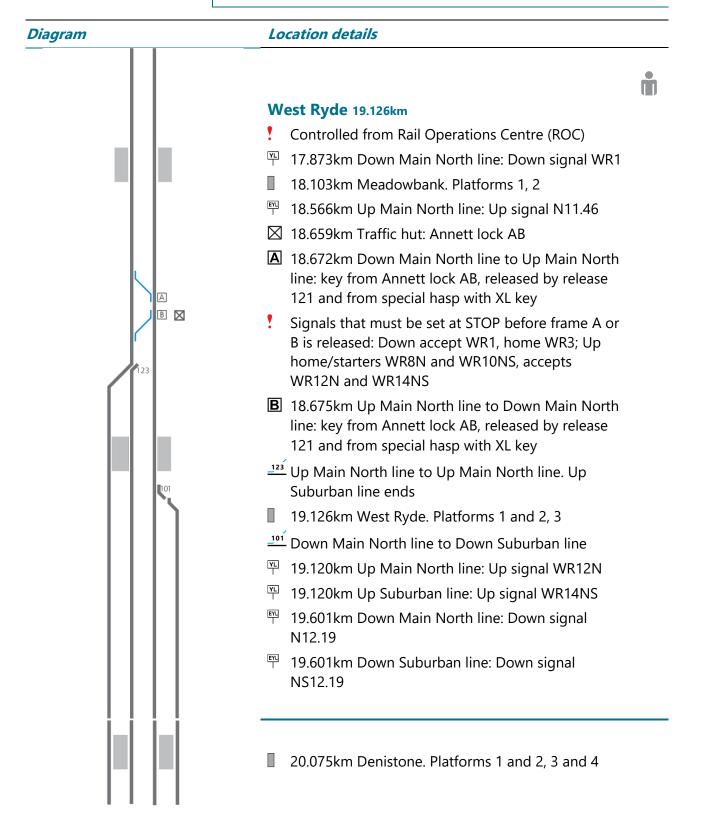
Rhodes 16.494km



- Controlled from Rail Operations Centre (ROC)
- Rhodes abuts Strathfield
- 15.263km Down Relief line: Down signal RS5R
- 15.263km Down Main North line: Down signal RS7N
- _____ Up Main North line to the Up Relief line
- ₱ 15.112km Up Main North line: Strathfield Up signal STI94N
- 16.082km Up SHUNT LIMIT sign on Down Main North line
- Down Main North line to Up Main North line
- Down Main North line to Down Relief line
- 16.494km Rhodes. Platforms 1, 2 and 3
- 16.667km Down SHUNT LIMIT sign on Up Main North line
- Down Relief line to Down Main North line. Down Relief line ends
- 16.980km Wheel Impact Load Detector (WILD), Weighbridge (WB), Up Main North line
- 16.980km Bearing and Brake Temperature System (BBT), Up and Down Main North line
- 17.350km Down Main North line: Down signal RS23N
- 17.712km Up Main North line: Up signal RS22N

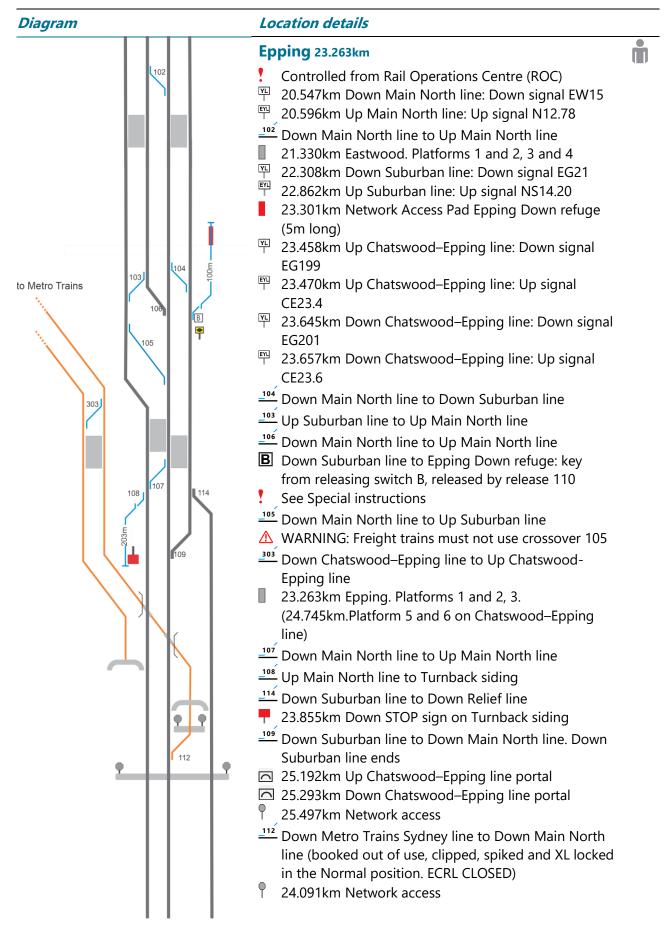


Strathfield - Hornsby



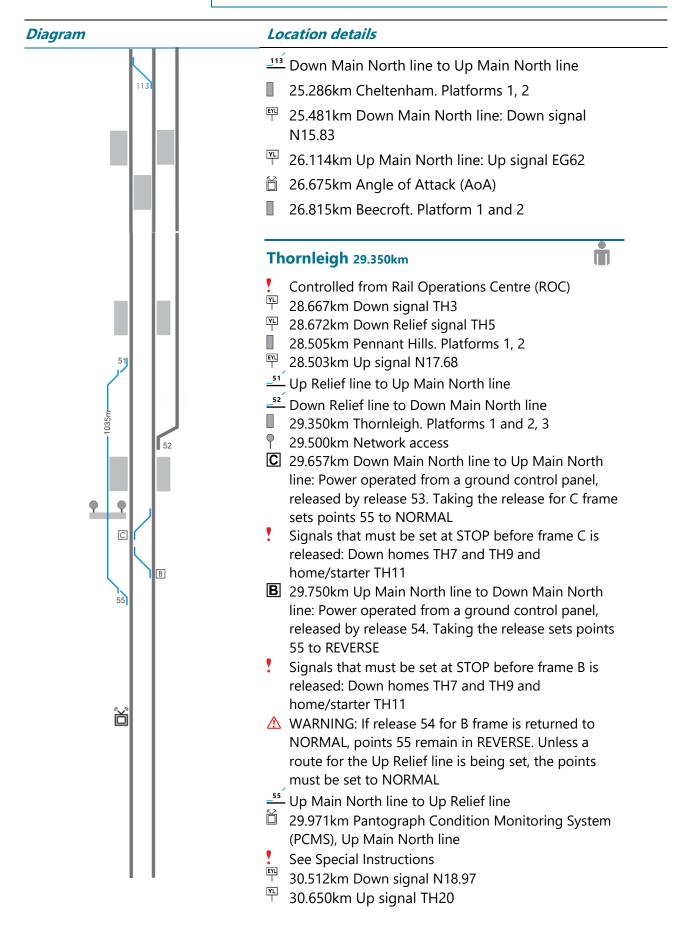


Strathfield - Hornsby





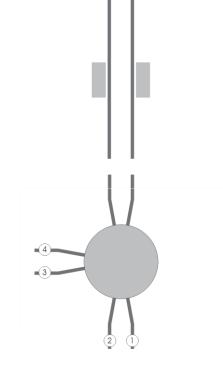
Strathfield - Hornsby



Strathfield - Hornsby

Diagram

Location details



■ 31.634km Normanhurst. Platform 1, 2

Hornsby 33.704km (NLA 302)



- ① Down Main North line (Hornsby–Gosford)
- ② Up Main North line (Hornsby–Gosford)
- ③ Up Shore line (Central–Hornsby)
- 4 Down Shore line (Central–Hornsby)

Special instructions

Work on track North Strathfield Rail Underpass (NSRU)

Before any work on track method or authority can be authorised for work on the Up Relief line at North Strathfield, the Signaller must ensure that:

the entire portion of the Up Relief line is unoccupied, and

all signals giving entry to the Up Relief line in both directions have been set at STOP with blocking facilities applied.



Warning

Other than during a Local Possession Authority, the use of Lookout Working is not permitted from Signal No. ST 174R at North Strathfield to 557 points at North Strathfield on the Up Relief line.



Strathfield - Hornsby

Epping Down Refuge siding

Work on track

When work on track is to be carried out in Epping Down Refuge siding, the procedures below must be followed.

Authorisation

Only the Network Controller may authorise work on track in Epping Down Refuge siding.

Protection Officer

Make sure that rail traffic within the siding will not move without authorisation.

Tell the Network Controller:

your name and contact details, and

give the name of the siding and ground frame designation, and

the type of work to be done, and

the intention to clip the relevant points, and

the intended start and finish times

when applicable, that rail traffic within the siding will not move without authority.

Network Controller

Make sure that rail traffic not associated with the work is not scheduled to enter the siding during the work on track times.

Signaller

Ask the Network Controller for permission to allow work on track to commence.

Network Controller

When the above conditions have been met, authorise the work on track to commence.

Signaller

When authorised, advise the Protection Officer to commence work.

Network Controller and Signaller

Record, in permanent form, all information about the authorisation of work on track in the siding.

Protection Officer

When permission is received to allow work on track to commence, clip and lock the points to prevent unauthorised rail traffic access to the siding.

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Warning

Work within the sidings must not commence until the points have been clipped and locked.

Returning the siding to service

Protection Officer

Make sure that:

all equipment is clear of the line

all workers have cleared the worksite

the line is certified fit for service

the point clip and SL lock has been removed, then

tell the Network Controller that the work is completed, and about any restrictions on track use.

Establishing worksites using Wireless Automatic Track Warning System (ATWS) as a safety measure

The following locations may establish a worksite inside yard limits using Lookout Working with wireless ATWS as a safety measure.

Protection Officers must:

Be inducted into the ATWS area implementation and management plan,

Establish worksites in accordance with the protection arrangements and details for each location set below.

Rhodes

Routine Network Maintenance Worksite Protection Plan: CMO13BWS 10002

Worksite location: Up and Down Main North lines between 16.951 KM and 17.019 KM

Sensor 1 location: Down Main North line at 16.292 KM

Sensor 2 location: Down Relief line at 16.292 KM

Sensor 3 location: Up Main North line at 18.059 KM



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Operating Thornleigh frame B or C

To take the release and operate points from a ground control panel

Qualified worker

- 1. Ask signaller for permission to take the release.
- 2. Make sure no rail traffic is approaching or traversing the points.
- 3. Open the Release unit, and when **Release available** indicator is lit, turn releasing switch to **Reverse.**
- 4. Open the Control unit, when **Control AVAILABLE** indicator is lit, turn the Points Control switch to **Free**, the trackside point indicators will display STOP.
- 5. When the **Free light** is continuously lit, turn the points control switch to **normal** or **reverse.**
- 6. When the points are in the required position, the **Normal** or **reverse** light in the control unit will be lit and the trackside point indicator will display a white arrow for the route set.

To restore the release and return points to normal operations

Qualified worker

- 1. Make sure no rail traffic is approaching or traversing the points
- 2. If the points are in reverse, In the points control unit:
- (a) turn the Points Control switch to **FREE**.
- (b) when the FREE LIGHT is continuously lit, turn the points control switch to NORMAL and check that the NORMAL light is lit.
- 3. In the release unit, turn the release switch to **Normal** and check that the **NORMAL indictor** light is lit.
- 4. Tell the signaller

Operating Frame B at Epping

Qualified Worker

- 1. Ask signaller for permission to take the release.
- 2. Make sure no rail traffic is approaching or traversing the points.
- 3. Open the Release-Control unit, and when the green **Release available** indicator is lit, turn releasing switch to **Reverse.**

To operate the points

- 4. Press and hold the **Cancel** button for two seconds, the trackside point indicators will display STOP
- 5. When the green points **Free** light is lit, press **Main** or **Siding** button to move the points to the desired position

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- 6. When the points have moved, a yellow **Main** or **siding** point indicator repeater light in the unit will be lit and the trackside point indicator will display a white arrow.
- 7. To operate the points again, repeat steps 4 to 6

To restore the release and return the points to normal operation

- 8. Make sure the points are in the normal position and the yellow **MAIN** point indicator repeater light in the unit is lit
- 9. Turn the release switch to normal
- 10. Tell the signaller the release has been restored.

Related documents

NLA 110 Central-Lidcombe

NLA 114 Strathfield

NLA 302 Hornsby

NLA 304 Central-Hornsby

NLA 308 Chatswood-Epping

NLA 310 Hornsby-Gosford

Effective date

25 January 2024