Median view of the Hills M2 Motorway and east services building, east of Norfolk Tunnel. Internal excavation is now complete.
Benefits of the Hills M2 Upgrade

The Hills M2 Upgrade will widen the existing motorway generally between Windsor Road, Baulkham Hills and Lane Cove Road, North Ryde and will deliver four new ramps to improve access to the motorway. The project aims to provide efficient and integrated transport for the community of Sydney’s north-west.

Significant progress has been made on the Hills M2 Upgrade since work started in January 2011. The project will reduce congestion and travel times during the busy morning and afternoon periods and improve access to the motorway. The new Macquarie Park ramps opened in January providing direct access to and from Talavera Road and reduced travel times for motorists travelling to and from the city. Completion of the project is targeted for mid 2013.

The upgrade will:

- Reduce congestion and travel times during busy morning and afternoon periods:
  - Saving up to 15 minutes (40%) in weekday AM peak periods.
  - Saving up to 7 minutes (24%) in weekday PM peak periods.
- Restore a 100km/h speed limit along the motorway westbound from Lane Cove Road to Windsor Road, including through Norfolk Tunnel at Epping.
- Provide new entry and exit points to improve access to the north-west from Windsor Road and Sydney’s growing residential and business centres in Macquarie Park.

A message from the project director

In the first quarter of 2013 we completed the second major milestone of the upgrade, opening the new east facing ramps at Macquarie Park. The new ramps are an important new connection that improves the accessibility to Macquarie Business Park, Macquarie University, Macquarie Centre and the Sydney Orbital Motorway network. Motorists are now able to join and exit the Hills M2 Motorway using Herring Road and Christie Road.

Between Windsor Road and Pennant Hills Road a third citybound lane is now open and the speed limit in this section has been reinstated to 100km/h in each direction. The breakdown lanes in both directions have also been restored. We anticipate congestion will be reduced in this section, particularly during busy morning peak periods.

Major excavation has been completed in the westbound Norfolk Tunnel and work to install new pavement and various tunnel services is continuing.

Over coming months, additional sections of the motorway will be completed. This includes completing asphalting, line marking, modification to permanent cross-overs and landscaping.

The final sections of the project to be completed include constructing median drainage, median concrete barriers and permanent traffic cross-overs between the western portal of Norfolk Tunnel and the main toll plaza. Work in this section of the motorway will continue until the middle of the year.

We thank the local community for their ongoing cooperation and patience. For information about the Hills M2 Upgrade and the upcoming program, please contact our team on 1800 196 266 (select option 2).

Regards,

Tim Orpen
Hills M2 Upgrade Project Director
Leighton Contractors Pty Limited
The newly completed ramps at Christie Road and Herring Road, Macquarie Park, February 2013
Norfolk Tunnel update

The Norfolk Tunnel is being widened to provide three lanes for general traffic and a breakdown lane in each direction. The tunnel will be signposted at 100 km/h once work is completed.

The widened citybound tunnel was opened to traffic in August 2012 in a temporary traffic arrangement while excavation in the westbound tunnel is completed. Work to install the cladding on the tunnel walls is complete. Work to adjust some of the permanent concrete barriers inside the tunnel will be undertaken at night.

Excavation to widen the westbound tunnel is completed. Installation of drainage, new pavement and various tunnel services is ongoing. Cladding on the westbound tunnel walls will be installed over the coming weeks.

As work inside the tunnels nears completion the team will start constructing the permanent traffic crossover points either side of the tunnel and install static and electronic signs for the tunnel closure system.

Traffic arrangements

Norfolk Tunnel continues to operate with two citybound lanes and one westbound lane in the citybound tunnel.

One westbound lane is open to traffic in the westbound tunnel. Between 2pm and 9pm, an additional westbound lane opens in the westbound tunnel, providing three westbound lanes in total during the PM peak. Motorists who need to access the Beecroft Road off-ramp should use the left lane through the Norfolk Tunnel.
Three month look ahead

Using bus lanes on the Hills M2 Upgrade

The Hills M2 Motorway forms part of the strategic bus corridor network for Sydney. It is an important public transport corridor with over 27,000 bus commuters using the motorway each day.

Weather permitting, the westbound and eastbound Bus Only lanes will be reinstated between Windsor Road, Baulkham Hills and just west of the Kent Street, Epping footbridge by the end of April. The westbound Bus Only lane was reinstated in March 2013.

Bus Only lanes are a special form of bus lanes restricted to bus only use. Taxis, hire cars, motorcycles and bicycles are generally not permitted to use Bus Only lanes. However, Taxis and Hire Cars will be permitted to use the Hills M2 Motorway citybound Bus Only lane when it is fully reinstated between Windsor Road and just west of Kent Street Epping. For more information about Bus Only lanes, please contact RMS on 132 213.

Important information for cyclists

The Hills M2 Motorway remains closed to cyclists until the upgrade is completed around mid-year.

To view the alternate route map, please visit www.hillsm2upgrade.com.au

April to June 2013

• Completing asphalt placement west of the Kent Street footbridge and east of the toll plaza.
• Completing pavement construction inside the Norfolk Tunnel.
• Completing landscaping work in Somerset Street, Epping.
• Completing bridgework at Khartoum Road Bridge, Macquarie Park.
• Continuing drainage and earthwork near Vimiera Road, Marsfield.
• Asphalting east of Kent Street footbridge.
• Constructing traffic cross over points either side of the tunnel.
• Installing signs on the motorway.
• Realigning traffic lanes on the motorway to allow next stages of work.
• Night work for
  – Tunnel completion work
  – Saw cutting new pavement
  – Pavement strengthening work
  – Asphalt placement
  – Traffic lane realignment including temporary barrier movement and line removal/marking.
Hills M2 Upgrade environmental management

Ecological monitoring
The Hills M2 Upgrade environment team and project ecologists have been busy completing post construction ecological monitoring along the Hills M2 corridor. We are happy to report some very successful results. An Australian native ground cover shrub *Epacris purpurascens* has increased at some locations along the corridor.

The unique Australian native species *Epacris purpurascens*

New residents have been making the most of the nest boxes installed along bushland areas in the Hills M2 corridor. During recent monitoring, ringtail possums were found in several nest boxes. The nest box monitoring program also found lorikeets and other native birds using the nest boxes as their home.

Ringtail Possums *Pseudocheirus peregrines* made a home in one of the nest boxes along the Hills M2 corridor

Nest boxes

New residents have been making the most of the nest boxes installed along bushland areas in the Hills M2 corridor. During recent monitoring, ringtail possums were found in several nest boxes. The nest box monitoring program also found lorikeets and other native birds using the nest boxes as their home.
Project Update - Lane Cove Road ramp

Detailed design work for the Lane Cove Road ramp project has now commenced. The beginning of this stage of work follows the project’s environmental approval on 28 February.

The Lane Cove Road ramp will provide a new citybound access to the motorway from Lane Cove Road and a citybound third lane for around 500 metres from Lane Cove Road to Delhi Road. Like the motorway’s conversion to fully cashless tolling, the new ramp and associated work will be delivered as a separate project to the Hills M2 Upgrade. Hills M2 will coordinate both projects to ensure impacts from the work on motorway users and local residents are minimised.

Major construction work is expected to start mid-year. The first stages of on-site work will include the establishment of a site compound office, site fencing and barriers and limited clearing.

For more information on the Lane Cove Road ramp, please visit www.lanecoveroadramp.com.au, or contact the project team on 1800 196 266 (option 2) or enquiries@lanecoveroadramp.com.au.
Eastern zone – Terrys Creek to Lane Cove Road

Eastern tunnel portal to Culloden Road overbridge widening on north side.

Culloden Road Bridge area widening on south side.

Toll Plaza area realignment.

Toll plaza to the west of Lane Cove Road widening on both sides.

Widening of Talavera Road to service new east facing ramps at Christie and Herring Roads.

LEGEND

1 Eastern zone work proposed from April to June 2013

Completion of work
- Complete westbound widening work between Norfolk Tunnel and Terrys Creek Bridge.
- Complete widening work in the median between Norfolk Tunnel and east of Terrys Creek Bridge.
- Complete asphalt placement and final line marking east of the toll plaza.
- Complete the westbound Khartoum Road Bridge work.

General work
- Ongoing earthworks and drainage near Vimiera Road, Marsfield.
- Ongoing finishing work including sign installation and landscaping.
- Commence asphalt placement between Terrys Creek Bridge and Lane Cove Road.

Night work
- Ongoing traffic management on the motorway including barrier movement, line removal and new line marking.
- Material deliveries.
- Installing new and relocating existing signs along the motorway.
- Saw cutting new pavement.
- Strengthening existing pavement.
- Asphalting placement.

Timeframes are estimates only and may change due to factors such as weather.
Central zone – Pennant Hills Road to Terrys Creek including Norfolk Tunnel

The locations of widening works for the M2 Upgrade have been determined by considering road user safety, road alignment and the natural environment.

New lanes would be created by widening the motorway, adjusting the median strip and barriers and marking new lanes.

The diagram to the right indicates the key locations of widening works:

1. Windsor Road west facing ramps on both sides.
2. Windsor Road to Barclay Road widening on north side.
3. Barclay Road to Pennant Hills Road widening on south side.
4. Pennant Hills Road eastbound off ramp widening on north side.
5. Pennant Hills Road to Murray Farm Road Bridge median widening.
6. Pennant Hills Road to Kent Street pedestrian overpass widening on south.
7. Murray Farm Road Bridge area widening on north side.
8. Beecroft Road to Somerset Street widening on south side.
9. Eastern tunnel portal to Culloden Road overbridge widening on north side.
10. Murray Farm bridge area widening.
11. Beecroft Road to Somerset Street widening on south side.
12. Eastern tunnel portal to Culloden Road overbridge widening on north side.
13. Culloden Road bridge area widening on south side.

LEGEND
- Location of widening work
- Murray Farm Road Bridge
- Hills M2 Motorway
- Beecroft Road Bridge
- Devlins Creek viaduct
- Norfolk Tunnel work (removal of bus ramp)

Central zone work proposed from April to June 2013

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<thead>
<tr>
<th>Completion of work</th>
<th>General work</th>
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<tr>
<td>• Completing landscaping work in Somerset Street, Epping.</td>
<td>• Ongoing pavement construction in the median between Murray Farm Road Bridge and Norfolk Tunnel.</td>
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<tr>
<td>• Complete asphalting and line marking west of Kent Street footbridge.</td>
<td>• Ongoing finishing work including sign installation and landscaping.</td>
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<tr>
<td>• Complete installation of the new high capacity tunnel deluge system tanks at the old tunnel compound.</td>
<td>• Commence asphalting between Pennant Hills Road and Terrys Creek Bridge.</td>
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<th>Norfolk Tunnel work</th>
<th>Night work</th>
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<td>• Ongoing installation of the tunnel wall cladding.</td>
<td>• Ongoing traffic management on the motorway including barrier movement, line removal and new line marking.</td>
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<tr>
<td>• Ongoing drainage and new pavement installation.</td>
<td>• Saw cutting new pavement.</td>
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<tr>
<td>• Constructing permanent traffic cross over points either side of the tunnel.</td>
<td>• Strengthening existing pavement.</td>
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- Timeframes are estimates only and may change due to factors such as weather.
Western zone – Windsor Road to Pennant Hills Road

![Map of Western zone](image)

1. Construction of Windsor Road on and off ramps on the western side and the widening of Windsor Road at Hills M2 Motorway interchange.
2. Windsor Road to Barclay Road widening on north side.
3. Barclay Road to west of Pennant Hills Road widening on south side.
4. Pennant Hills Road eastbound off-ramp widening on north side.

**LEGEND**
- Location of widening work
- Hills M2 Motorway
- Barclay Road Bridge
- Darling Mills Creek viaduct
- Yale Close

### Western zone work proposed from April to June 2013

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<th>Completion of work</th>
<th>Night work</th>
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<td>Complete asphalting and final line marking west of Pennant Hills Road and open this section of the widened motorway to traffic.</td>
<td>Ongoing traffic management on the motorway including line removal and line marking.</td>
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<td>Asphalt placement.</td>
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New asphalt on the Hills M2 Motorway at Windsor Road, Baulkham Hills in February 2013
**WestConnex**

WestConnex is one of the NSW Government’s major infrastructure projects providing three lanes from a widened M5 and an extra lane from King Georges Road will improve reliability for all motorists travelling on the M5 East.

**What do you think WestConnex could deliver for our City?**

**What is your vision for urban renewal along Parramatta Road?**

Find out more and tell the Sydney Motorways Project Office what you think in our survey at www.westconnex.com.au or write to us at:

Sydney Motorways Project Office
Communications and Community Engagement Team
Level 18, 101 Miller Street, North Sydney 2060
Phone 1300 660 248  
Email westconnex@smpo.nsw.gov.au

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**Keeping the local community informed**

Since starting construction of the Hills M2 Upgrade we have:

- Delivered more than 124,000 community updates.
- Delivered more than 234,000 work notifications.
- Placed 219 advertisements in 11 papers.
- Placed 444 radio advertisement slots on seven stations.
- Hosted 9 community information sessions attended by more than 170 people.

**To keep the community informed we issue:**

- Work notifications.
- Traffic alerts.
- Web updates.
- Newspaper advertisements.
- Radio advertisements.
- Community updates.

Visit the project website www.hillsm2upgrade.com.au and register your email address to receive information about construction activities.

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**Motorway traffic changes**

For up-to-date traffic information go to www.livetraffic.com.

**Hills M2 Upgrade breakdown safety**

In case of breakdown:

- Stay in your vehicle, seat belt fastened.
- Switch your hazard lights on.
- Call 1800 196 266.
- Wait for assistance.

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**1800 196 266 – One dedicated number**

A dedicated 1800 number will answer all enquiries associated with the motorway and upgrade road works.

Dial 1800 196 266 and press:

- **Option 1**: To report an accident, breakdown or an urgent traffic incident.
- **Option 2**: For enquiries or complaints associated with the Hills M2 Upgrade roadwork.
- **Option 3**: For enquiries related to the general operation or maintenance of the Hills M2 Motorway.

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Further information:

Please contact the project team on 1800 196 266 (select option 2)
Website: www.hillsm2upgrade.com.au

April 2013  
RMS 13.243
Each year, many children presenting to the Emergency Department of The Children’s Hospital at Westmead have been involved in a motor vehicle accident. Prevention is equally important as cure, which is why the Hospital has welcomed the opportunity to participate in a research project examining children aged 9 – 18 years who have been involved in such accidents.

The “In-Depth Crash Investigation Study” wants to find out how occupants are being injured in crashes and to determine whether types of injury vary depending on age. It will also explore the link between known risk factors such as speed, driver fatigue, intoxication and the injury outcome. The study is in collaboration with Neuroscience Research Australia.

The research team hopes to use the information obtained through the project to provide an evidence base for countermeasures to prevent injuries to vehicle occupants, and to enhance vehicle safety in Australia thereby reducing injury rates.

This study is not the first study researchers at The Children’s Hospital at Westmead have conducted on children injured in a motor vehicle accident. The Australian Paediatric Surveillance Unit (APSU) - a research unit based at the Kids Research Institute at The Children’s Hospital at Westmead - recently completed a national study of seatbelt related injuries. The research found children were at risk of serious injury if they were travelling in the wrong restraint for their age or size, or with incorrect use of restraints by placing the shoulder belt under the arm or behind the back, or applying the shoulder straps of a child restraint with an in-built harness loosely or not at all.

The APSU also used the National Coroners Information System to study child deaths due to motor vehicle crashes. We were shocked to find that about 30% of children aged less than 13 years who died on our roads were not restrained at all and another 35% were travelling in the wrong restraint. Incorrect use of seatbelts and restraints was also high. Approximately 70% of these deaths could have been prevented if only the child had been using an age appropriate restraint correctly.

Many of our research projects are funded through competitive grants and donations from individuals, community groups and organisations. Please help by making a donation today. Your gift will help improve the health and wellbeing of children in Sydney, around Australia and across the world.

Your donation will help seriously ill or injured children.
To make a donation, please complete the slip below or go to www.kidsresearch.org.au

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Yes! I would like to make a donation

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Donations of $2 or more are tax deductible.

Once completed, please send this form to:
The Fundraising Department
The Kids Research Institute at The Children’s Hospital Westmead,
Reply Paid 69451, WESTMEAD NSW 2145