

Community Update

A message from the Hills M2 Upgrade project director

Planning has commenced to move to full electronic toll collection on the Hills M2 following the direction on 18 July by the NSW Government. The installation of electronic, also known as cashless toll collection, will be incorporated into the upgrade's program of work.

We have been working with the NSW Government for an early delivery of cashless tolling to ensure faster, safer and less congested travel on the M2. We expect cashless toll collection to commence in early 2012.

Customers with e-TAGs using the Christie Road eastbound off-ramp and the Pennant Hills Road westbound on-ramp will receive the greatest benefits as they will no longer have to queue in the cash lanes.

Once the upgrade is complete, the cash booths will be removed and speed limits will be set at 100km/h through tolling points at Macquarie Park.



Toll plaza canopy at Macquarie Park, February 2011

In this issue:

- | | |
|--|--------|
| • Norfolk Tunnel update | page 2 |
| • Construction update | page 3 |
| • Environment update | page 4 |
| • Western zone construction update | page 5 |
| • Central zone construction update | page 6 |
| • Eastern zone construction update | page 7 |
| • Urban Design and Landscape Management Plan | page 8 |

All motorists will require an e-TAG or e-PASS to use the Hills M2. If you require an e-TAG or e-PASS contact Roam Express at www.roamexpress.com.au or 13 76 26.

The Hills M2 Upgrade is now in full swing. On any given day we have up to 700 employees working on the project, ranging from graduate to senior project engineers, administrators and support staff, sub-contractors, and safety managers. Since construction commenced in January 2011 we have inducted over 2,500 personnel into safety procedures.

We have teams located across 60 work zones along the motorway including the Norfolk Tunnel, local roads, bridges, and viaducts.

I encourage you to take some time to read through this newsletter to learn more about the work happening in your area.

Regards,

Garret O'Connor

Project Director – Transurban

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.

Major work on the Hills M2 Upgrade started in early 2011 and is expected to take approximately two years to complete, with Windsor Road west-facing ramps due for completion in the second quarter of 2012.

The upgrade will:

- ✓ Reduce congestion during busy morning and afternoon periods.
- ✓ Restore a 100km/h speed limit along the westbound carriageway from Lane Cove Road to Beecroft Road.
- ✓ Provide new entry/exit points to improve access to the north-west from Windsor Road and Sydney's growing residential and business centres in Macquarie Park.

Norfolk Tunnel update

About the Norfolk Tunnel

The Norfolk Tunnel consists of two tunnels: an eastbound tube with two traffic lanes and a breakdown lane, and a westbound tube with three traffic lanes.

The Norfolk Tunnel will be widened to provide three 3.5m traffic lanes and a 2.5m breakdown lane in both directions. The mechanical, electrical, lighting and ventilation systems will also be upgraded. A radio broadcast system will enable radio reception and traffic control safety messages to be transmitted to motorists through their car radios.

What work is happening now?

Rock bolting in the eastbound tunnel tube commenced in April 2011. This work will continue throughout October and involves drilling holes and installing five metre bolts into the ceiling of the tunnel.

A new trench to locate services and utilities is complete. New lighting, cables and fire equipment is currently being installed.

Niches are being constructed in the tunnel walls to house new and relocated mechanical and electrical equipment.

Upcoming work

New and relocated services in the eastbound tunnel will be connected over the next few months.

Traffic lanes in the tunnel will be realigned and moved to the right, which will create the working area for excavation work. **Please follow the signs and drive with care.**

Excavation in the eastbound tunnel will commence in November 2011. This work includes removing rocks to widen inside the tunnel and concreting the walls to strengthen the cuts. Noise curtains at each end of the tunnel minimise noise impacts for nearby residents. If you experience any impacts from this work please call our community relations team on **1800 196 266** (select option 2).

Work in the tunnel is mainly at night to minimise the impact on daytime traffic.



West of the Norfolk Tunnel

Ongoing weekend work in the tunnel

Excavation work in the citybound tunnel tube is scheduled to start early November 2011 and will be ongoing until mid 2012.

This essential work will occur at night and on Sunday daytime over weekends. During this time the citybound tunnel will be temporarily closed and traffic will be diverted to the westbound tunnel under a contra-flow arrangement in that tunnel. **At least one lane will always remain open in both directions.**

This work may cause delays and motorists are advised to plan ahead and allow extra travel time. We apologise for any inconvenience and will ensure motorists are aware of the work.

More information about the weekend tunnel work will be available at www.hillsm2upgrade.com.au.



Hills M2 Upgrade breakdown safety

In case of breakdown:

- Stay in your vehicle
- Switch on your hazard lights
- Call **1800 196 266**
- Wait for assistance

Three month look ahead

October to December 2011:

- Complete vegetation clearing along the motorway.
- Ongoing bridgeworks including:
 - Windsor Road Bridge
 - Darling Mills Creek Bridge
 - Barclay Road Bridge
 - Yale Close Bridge
 - Murray Farm Road Bridge
 - Devlins Creek Bridge
 - Beecroft Road Bridge
 - Terrys Creek Bridge
 - Christie Road Bridge
 - Khartoum Road Bridge
- Installing new permanent noise walls and commence removal of some temporary walls.
- Ongoing earthworks, drainage and widening work.
- Start of tunnel widening work in the eastbound Norfolk Tunnel with weekend closures.
- Night work required for:
 - Tunnel rock bolting and excavation
 - Bridgework including beam installation
 - Drainage and culvert installation
 - Noise wall installation and removal of temporary walls
 - Pavement strengthening
 - Concrete saw cutting
 - Asphalt milling
- Commencing construction of new sections of pavement westbound from Pennant Hills Road to Windsor Road.
- Installing new and relocating existing static signs along the motorway.

There will be changed traffic conditions on the motorway, local roads and bridges.

Local roads traffic management update

Work on bridges over the motorway and adjacent local roads will be ongoing until mid to late 2012.

- **Windsor Road** – Traffic lanes were narrowed in June to create a safe working area on the western side of the bridge. The new bridge beams were installed in July and work to construct the new bridge deck will be ongoing until early 2012. Two-way traffic is maintained and a pedestrian diversion is in place across the western side of the bridge.
- **Barclay Road** – Work on the western side of the bridge will continue until approximately November 2011 when traffic will be switched to the western side of the bridge and work to lengthen the eastern side will commence. Pedestrian access across the bridge will be maintained at all times.
- **Murray Farm Road Bridge** – The current one way alternate arrangement with traffic signals will remain in place till late 2012. Traffic is currently diverted to the east side of the bridge so construction can continue on the western side.
- **Beecroft Road Bridge** – Speed reductions and lane closures are implemented on the Beecroft Road Bridge intermittently as work progresses. Two-way traffic will be maintained for the majority of this work. If weekend or night time closures of the bridge are required motorists and residents will be notified in advance.

- **Christie Road Bridge** – The next traffic switch on Christie Road Bridge is scheduled for late November. Two-way traffic will be maintained for the majority of this work, however some temporary overnight closures may be required.
- **Talavera Road** – Service relocation and property adjustment work started in July 2011. Two way traffic is maintained with pedestrians and cyclists diverted to the southern footpath between Alma Road and Christie Road. The city bound bus stop on Talavera Road has been temporarily relocated to Christie Road at the corner of Talavera Road. Widening work on Talavera Road will commence in October.



Spray sealing west of Murray Farm Road Bridge

Environment update

Managing sediment run off during construction

Controls have been installed to prevent soil erosion and the pollution of waterways from sediment run off during rainfall.

Some of the measures we use to prevent erosion and sediment entering creeks and local areas include:

- Installing sandbag dams along sloping surfaces.
- Covering surfaces that are prone to erosion with geofabric.
- Sweeping access roads to remove the left over sediment.

The sediment and erosion controls are regularly maintained. During and after rainfall, the environment team check the controls to make sure they are working well and to identify any areas that need maintenance.



Erosion controls westbound, west of Murray Farm Road Bridge, Beecroft

Visit our website gallery at www.hillsm2upgrade.com.au to see project progress



Crane operations on Windsor Road Bridge, - September 2011 -

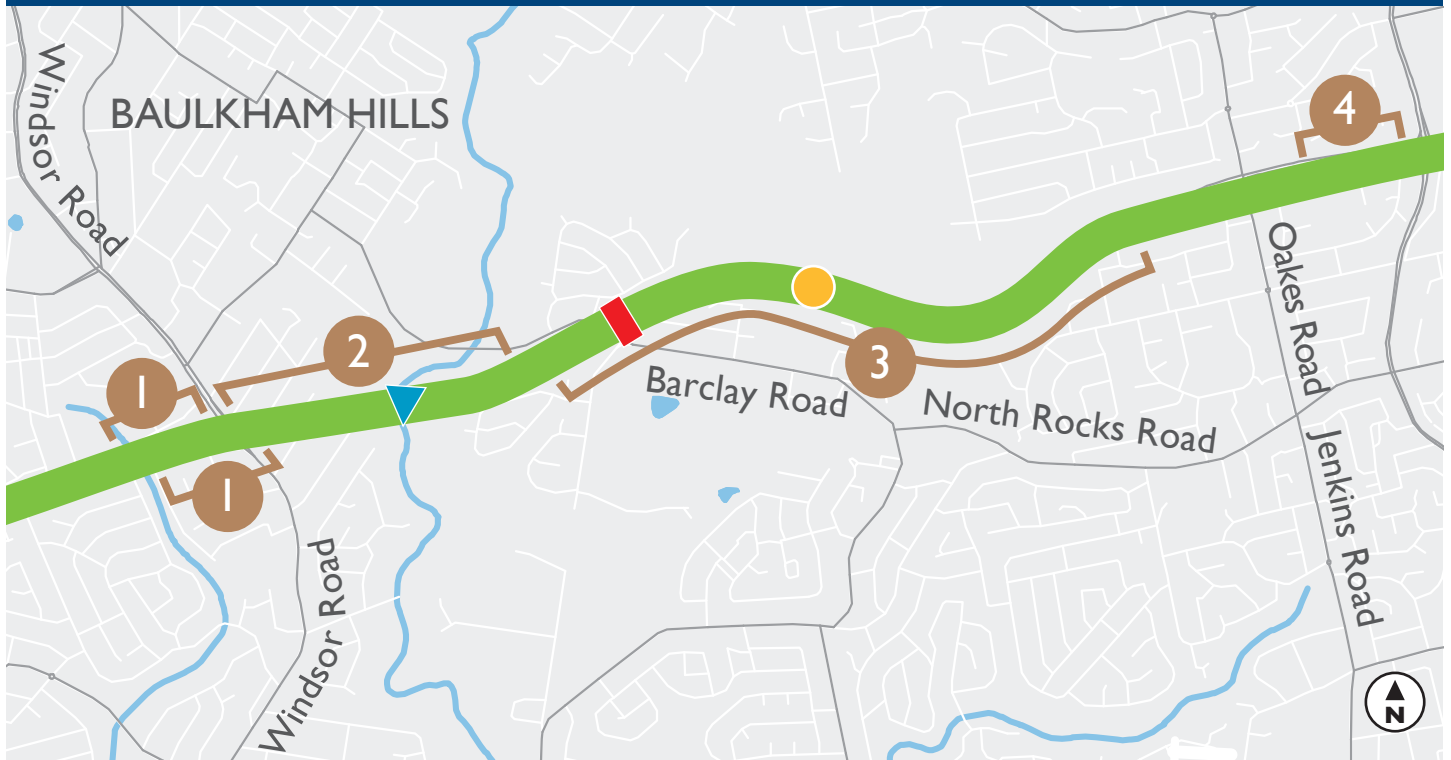


New pavement westbound, - September 2011 -



Noise wall installation westbound, - September 2011 -

Western zone – Windsor Road to Pennant Hills Road



- 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

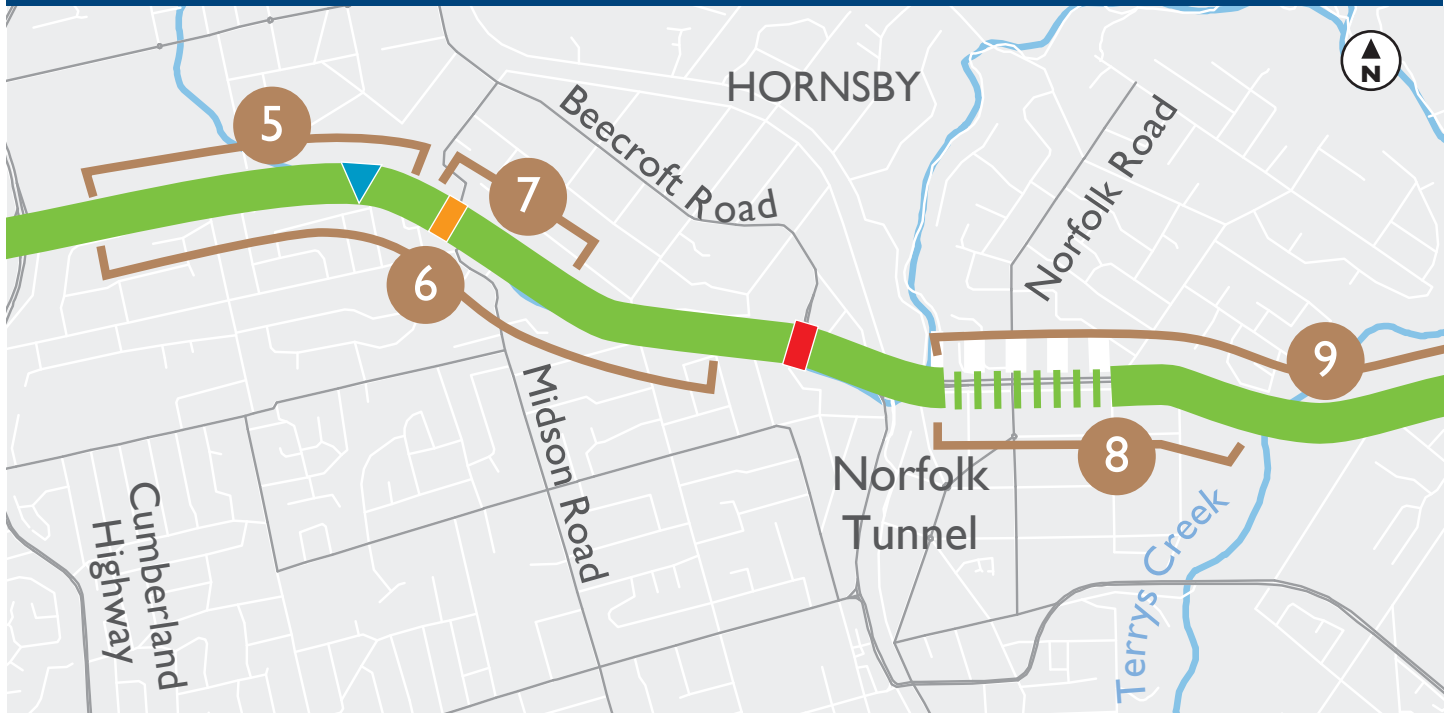
- Location of widening work
- Hills M2 Motorway
- Barclay Road Bridge
- Darling Mills Creek viaduct
- Yale Close

Western zone work proposed from October to December 2011

- | | |
|--------------|--|
| General work | <ul style="list-style-type: none"> • Continuing earthwork eastbound from Windsor Road to Barclay Road. • Commence paving and finishing work westbound from Pennant Hills Road to Barclay Road. • Ongoing retaining wall and drainage work at the Windsor Road interchange. • Continuing construction of the new west facing ramps at Windsor Road. • Ongoing motorway widening work including earthwork and pavement construction. • Ongoing service relocations including power, water, gas and communications along Windsor Road. • Ongoing installation of permanent noise walls. • Ongoing site maintenance including fencing and site access roads. |
| Bridge work | <ul style="list-style-type: none"> • Continue work to widen the Yale Close Bridge including placement of new bridge beams. • Continue deck construction and new on and off ramps at the Windsor Road Bridge. • Ongoing work to widen the Darling Mills Creek Bridge including placement of new bridge beams. • Ongoing work to lengthen the Barclay Road Bridge. |
| Night work | <ul style="list-style-type: none"> • Ongoing traffic management on the motorway. • Road pavement strengthening work prior to the new pavement being laid. • Earthwork haulage eastbound from Windsor Road to Barclay Road. • Milling to remove asphalt on sections of the motorway. • Concrete saw cutting once new pavement has been laid. • Installing of drainage facilities across the motorway. • Removing temporary noise walls. |

Timeframes are estimates only and may change due to factors such as weather.

Central zone – Pennant Hills Road to Terrys Creek including Norfolk Tunnel



- 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.

Legend

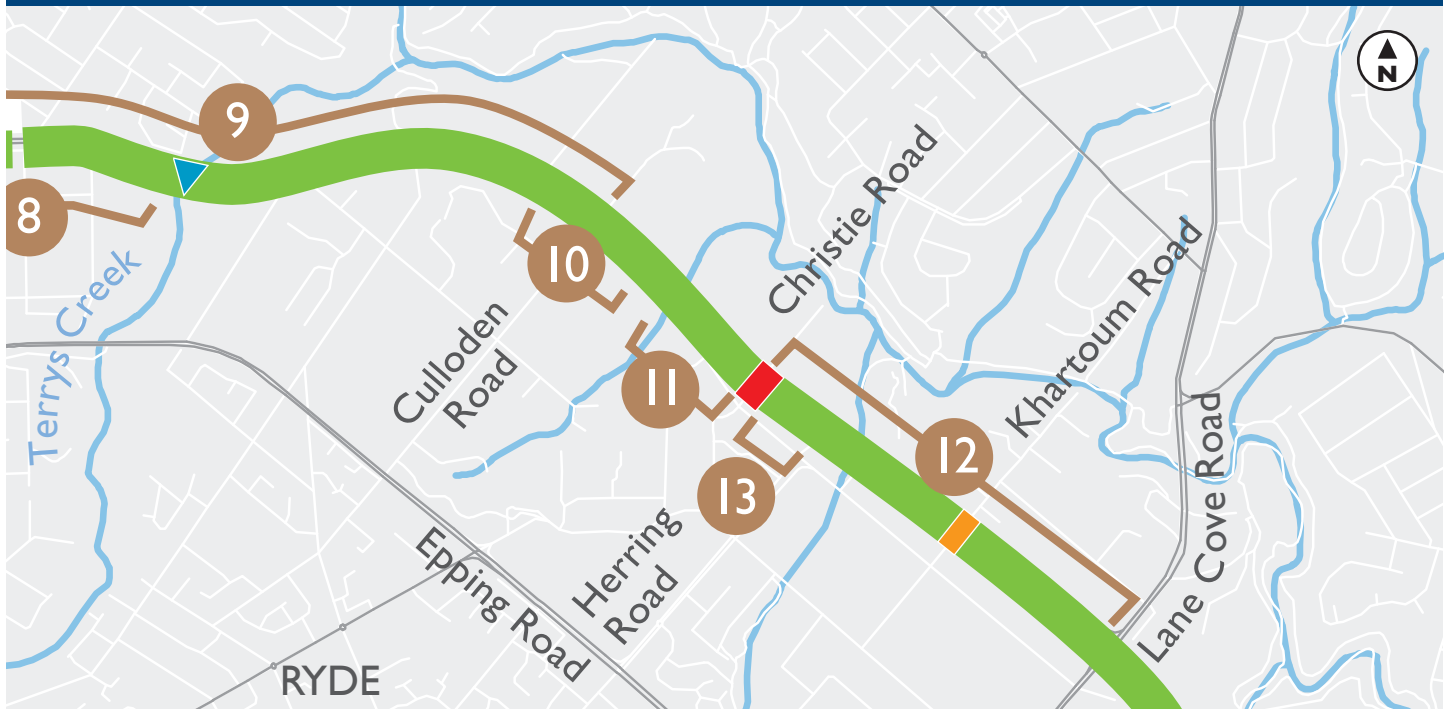
- █ Hills M2 Motorway
- █ Beecroft Road Bridge (removal of bus ramp)
- █ Murray Farm Road Bridge
- ▾ Devlins Creek viaduct

Central zone work proposed from October to December 2011

General work	<ul style="list-style-type: none"> • Complete vegetation clearing in construction areas. • Ongoing site maintenance including fencing and site access roads at the work sites and compounds. • Continue retaining wall and pavement construction westbound between the Kent Street overpass and Pennant Hills Road. • Commence finishing work westbound from the Kent Street overpass to Pennant Hills Road. • Ongoing installation of new permanent noise walls.
Bridge work	<ul style="list-style-type: none"> • Ongoing Devlins Creek Bridge work including placement of new bridge beams. • Ongoing work to lengthen the Murray Farm Road Bridge on the western side. • Ongoing work at Beecroft Road Bridge to construct new central piers.
Norfolk Tunnel work (eastbound)	<ul style="list-style-type: none"> • Ongoing rock bolting, spoil removal and shotcreting inside the tunnel. • Complete relocation of utilities from the outside wall to the inside wall of the tunnel. • Commence bulk excavation in the eastbound tunnel including major weekend closures, from early November 2011.
Night work	<ul style="list-style-type: none"> • Scaffold removal at Murray Farm Road Bridge and Beecroft Road Bridge. • Ongoing traffic management on the motorway. • Road pavement strengthening work prior to new pavement being laid. • Concrete saw cutting once new pavement has been laid. • Removing temporary walls where new walls are complete.

Timeframes are estimates only and may change due to factors such as weather.

Eastern zone – Terrys Creek to Lane Cove Road



- 8 Eastern tunnel portal to Culloden Road overbridge widening on north side.
- 9 Culloden Road Bridge area widening on south side.
- 10 Toll Plaza area realignment.
- 11 Toll Plaza to the west of Lane Cove Road widening on both sides.
- 12 Widening of Talavera Road to service new east facing ramps at Christie and Herring Roads.

Legend

- Location of widening work
- Hills M2 Motorway
- Terrys Creek viaduct
- Christie Road Bridge
- Khartoum Road Bridge

Eastern zone work proposed from October to December 2011

- | | |
|--------------|--|
| General work | <ul style="list-style-type: none"> • Complete vegetation clearing in construction areas. • Ongoing service relocations including power, water, gas and communications on Talavera Road. • Ongoing site maintenance including fencing and site access roads. • Ongoing set up of temporary noise walls and installation of permanent noise walls. • Earthwork and construction of retaining walls for the new on and off ramps at Christie and Herring Roads. • Ongoing earthwork, pavement and finishing work eastbound from the Norfolk Tunnel to Lane Cove Road. |
| Bridge work | <ul style="list-style-type: none"> • Ongoing Terrys Creek Bridge work including placement of new bridge beams. • Ongoing work to widen and lengthen Christie Road Bridge on the northern side. • Ongoing construction to widen Khartoum Road Bridge eastbound including placement of new bridge beams. |
| Night work | <ul style="list-style-type: none"> • Ongoing traffic management on the motorway. • Strengthening road pavement prior to the new pavement being laid. • Concrete saw cutting once new pavement has been laid. • Installing drainage facilities across the motorway and Christie Road Bridge. • Installing bridge beam at Terrys Creek, Christie Road and Khartoum Road bridges. • Installing retaining wall panels west of the Terrys Creek Bridge. |

Timeframes are estimates only and may change due to factors such as weather.

Urban Design and Landscape Management Plan

The draft *Urban Design and Landscape Management Plan* was displayed for public comment from 2 August to 4 September 2011. The plan is on the project website at www.hillsm2upgrade.com.au/udlmp_documents.htm. Submissions were encouraged to help guide the final visual design and landscaping elements of the project. Ten submissions were received and some suggestions have been incorporated into the final plan. We thank the community and stakeholders for taking the time to provide their feedback on the plan.

Since starting construction of the Hills M2 Upgrade we have:

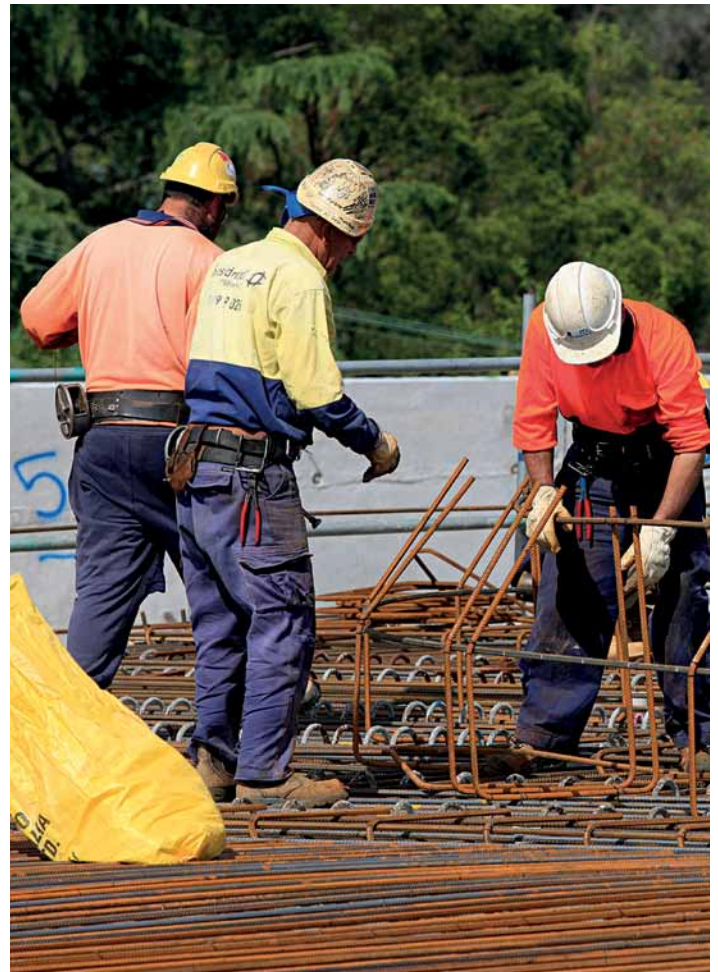
- Delivered 61,000 community updates.
- Delivered 52,775 work notifications.
- Placed 66 advertisements in 10 papers.
- Hosted 9 community information sessions attended by over 170 people.

Keeping the local community informed

To keep the community informed we issue:

- Work notifications
- Web updates
- Newsletters
- Newspaper advertisements

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



Construction workers on the new deck of Windsor Road Bridge, September 2011

1800 196 266 – One dedicated number

A 1800 number has been set up to answer all enquiries associated with the motorway and upgrade works.

Dial 1800 196 266 and press:

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

For all enquiries related to tolling and toll notices, or to obtain an e-TAG or e-PASS please call Roam Express on 13 76 26.



Further information:

Please contact the project team on 1800 196 266 (select option 2)

Email: enquiries@hillsm2upgrade.com.au

www.hillsm2upgrade.com.au

October 2011
RTA/Pub.11.437