



Australian Government

BUILDING OUR FUTURE



MAKING IT HAPPEN

Western Sydney Infrastructure Plan

1 July 2015 – 30 June 2016 Report Card



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Front cover: The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive

Message from the Ministers

We are very pleased to bring you this second, twelve monthly Report Card for the Western Sydney Infrastructure Plan (WSIP).

During these 12 months, we have come a long way with our plan to deliver around 61km of new and upgraded road to residents of western Sydney. As of June 2016, 11km of new road and 13km of new shared path are under construction. More importantly, an extra 19.3km of road upgrade are currently being tendered on by some of the best in the business, with construction expected to start by the middle of next year.

These improvements to the road network in western Sydney will play an important role in the construction and operation of the planned western Sydney airport at Badgerys Creek as well as the development of new business and residential lands in the area. All six of The Northern Road Upgrade sections are due for completion by 2020 with the new M12 Motorway expected to be open before the planned airport is operational in the mid-2020s.

Work on the first 3.3km of The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive started earlier this year and is expected to be finished in early 2018.

Following the opening of around 1km of new road in December 2015, the first stage of the Bringelly Road Upgrade between Cowpasture Road and King Street continues to kick goals with the first concrete bridge spans for the bridge over the Upper Canal completed three months ahead of schedule.

The most exciting news is the 2km Werrington Arterial Road between the Great Western Highway and the M4 Motorway is on target to be completed by the end of 2016. This will be a significant milestone as it will be the first of the WSIP projects to be completed.

Western Sydney residents are already experiencing benefits from the WSIP projects that are currently in construction. As of June 2016, around \$30.4 million worth of contracts were awarded to businesses based in western Sydney for the three projects currently in construction. There are 156 western Sydney sub-contractors and suppliers working across these 3 projects which represents a 240% increase in comparison to the last report card.

The peak annual expenditure of \$700 million for the 10 year program is forecast to occur in the 2018–19 financial year. This means that residents of western Sydney will continue to benefit from these projects in the years to come.

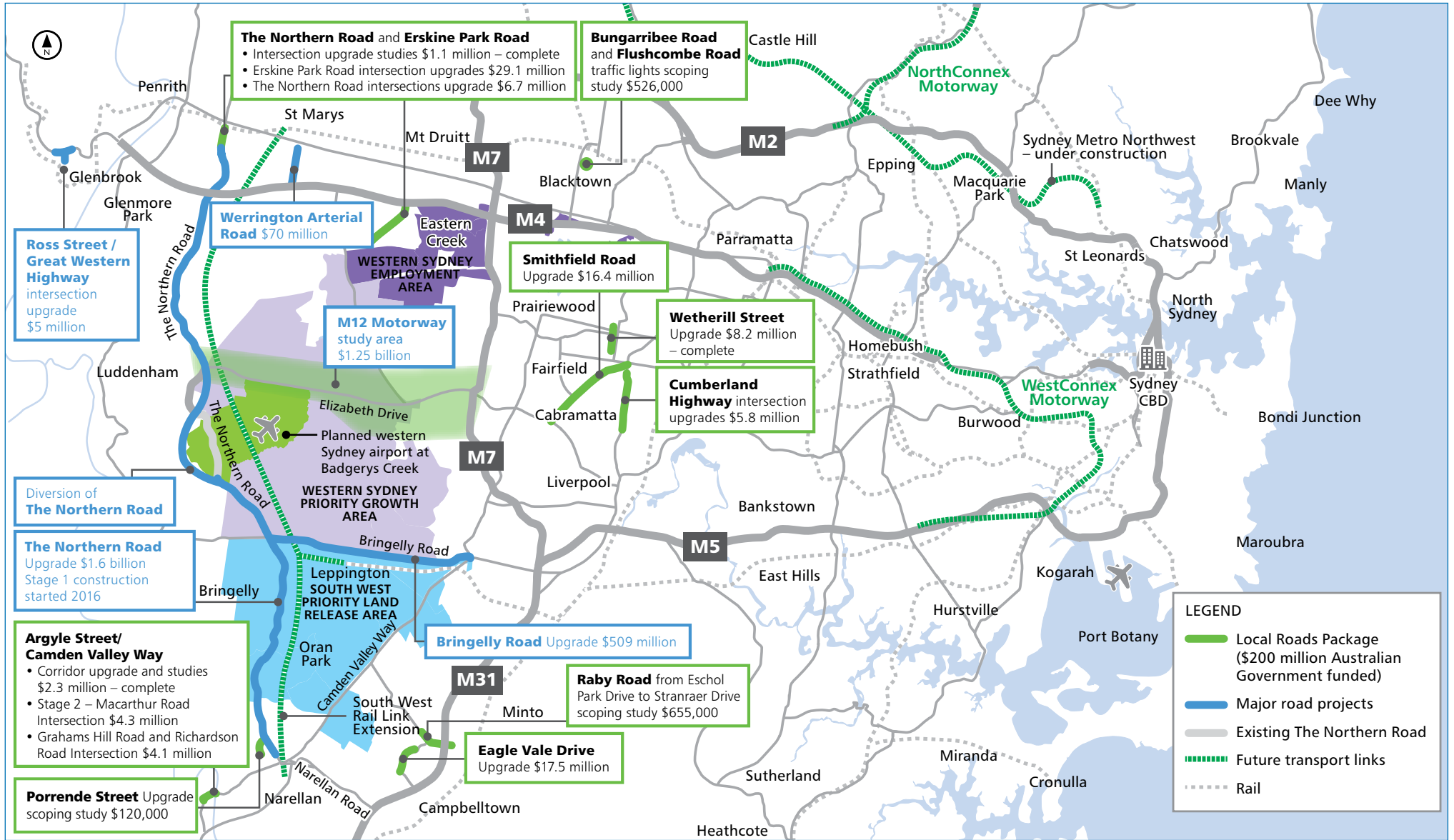
Finally, the last year has also marked great progress on the \$200 million Local Roads Package funded by the Australian Government. We are very pleased to confirm the majority of projects funded as part of the \$35 million first round allocation in 2014 are now complete and that a further \$62 million has been allocated to projects as part of the second round of funding announced in January 2016. We now turn our attention to ensuring we achieve the targets set for the next twelve months.



The Hon. Paul Fletcher MP
Minister for Urban Infrastructure



The Hon. Duncan John Gay MLC
NSW Minister for Roads, Maritime and Freight



Above: Western Sydney Infrastructure Plan overview map

Western Sydney Infrastructure Plan overview

The Australian and NSW governments are funding a 10 year, \$3.6 billion road investment program for western Sydney.

The Western Sydney Infrastructure Plan will deliver major road infrastructure upgrades to support an integrated transport solution for the region and capitalise on the economic benefits from developing a planned western Sydney airport at Badgerys Creek.

These high quality road improvements will deliver significant, ongoing safety and congestion-relieving benefits for customers.

The new 2km **Werrington Arterial Road** is due for completion later this year. This is an upgrade of existing roads to form a high quality link between the Great Western Highway and the M4 Motorway.

The 10km **Bringelly Road Upgrade** is being delivered in two stages between Camden Valley Way at Leppington and The Northern Road at Bringelly:

- Stage 1 is a 5.7km section between Camden Valley Way, Leppington and King Street, Rossmore and is currently being built
- Stage 2 is a 4.3km section between King Street, Rossmore and The Northern Road, Bringelly will be constructed together with The Northern Road Upgrade between Peter Brock Drive and Mersey Road (including a new grade separated interchange with The Northern Road).

The upgrade will generally provide four lanes with a six lane divided road from Eastwood Road to Cowpasture Road (south), through the future Leppington Town Centre.

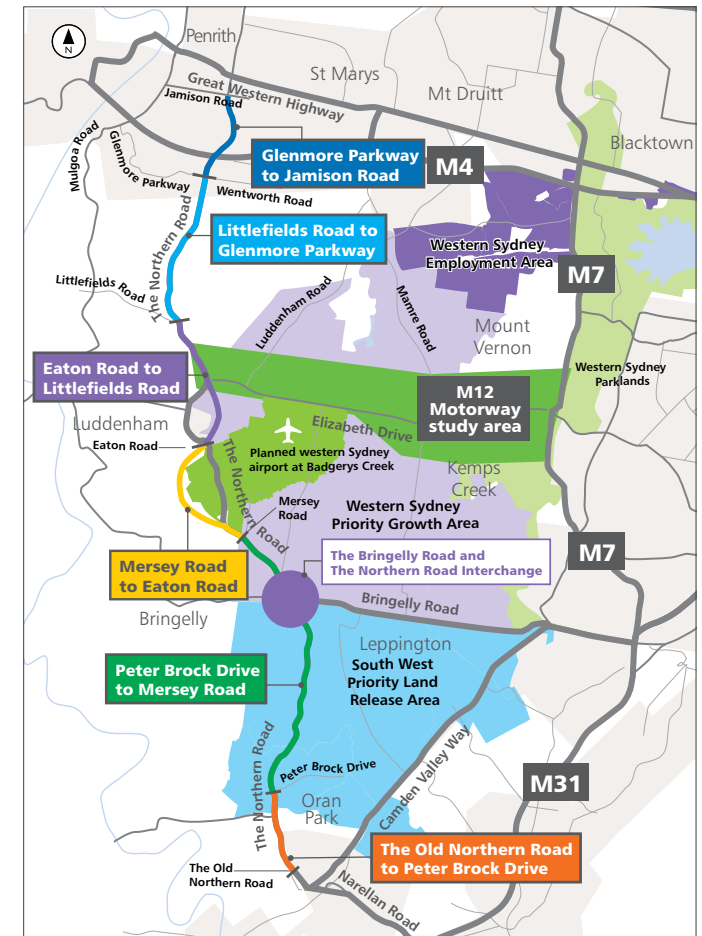
The new **M12 Motorway**, a motorway standard, east-west link to the planned airport, is in early planning.

The 35km **The Northern Road Upgrade**, from The Old Northern Road, Narellan and Jamison Road, South Penrith was previously divided into four stages (1, 2, 3 and 4) however due to review of the procurement strategy, is now expected to be delivered in six sections between:

- The Old Northern Road, Narellan and Peter Brock Drive, Oran Park (3.3km) – construction started in early 2016
- Peter Brock Drive, Oran Park and Mersey Road, Bringelly (11km) – will be constructed together with the Bringelly Road Upgrade between King Street and The Northern Road (including a new grade separated interchange with Bringelly Road)
- Mersey Road, Bringelly and Eaton Road, Luddenham (5.5km)
- Eaton Road, Luddenham and Littlefields Road, Luddenham (4.5km)
- Littlefields Road, Luddenham and Glenmore Parkway, Glenmore Park (6km)
- Glenmore Parkway, Glenmore Park and Jamison Road, South Penrith (4km).

The Northern Road Upgrade will cater for future traffic from planned residential and commercial developments in time for a western Sydney airport planned to open in the mid-2020s.

The **Glenbrook Intersection Upgrade** will improve safety and access at the intersection of Ross Street and the Great Western Highway, Glenbrook.



The Northern Road Upgrade stages

Progress so far

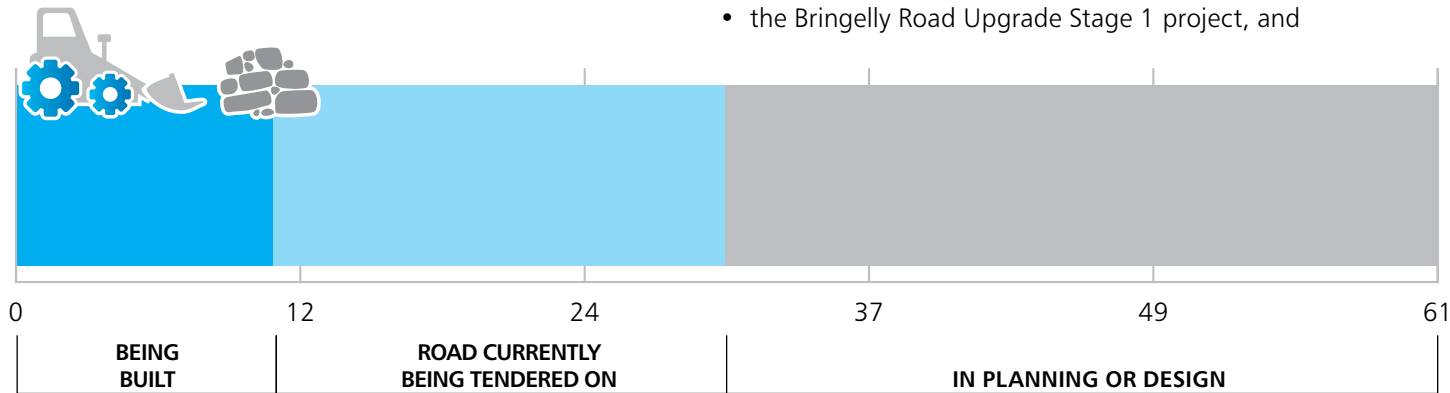
Over the last twelve months, the Australian and NSW governments have made significant progress to deliver the Western Sydney Infrastructure Plan.

Roads and Maritime Services is currently building around 11km of the 61km of Western Sydney Infrastructure Plan roads. This includes work on:

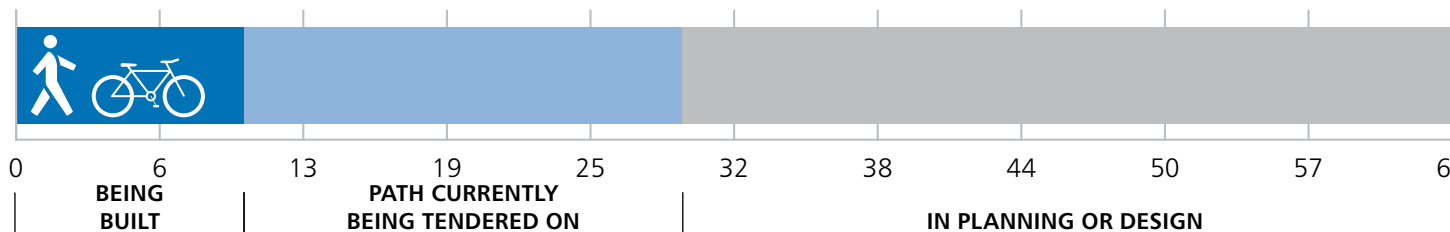
- the Werrington Arterial Road project,
- the Bringelly Road Upgrade Stage 1 project, and

- The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive.

A further 19.3km of roads are currently being tendered with construction work expected to start by mid-2017.



11 km
Roads being built



10 km
Shared pedestrian and cyclist paths being built

18
of 75
intersections being built

About 75 intersections will be built or upgraded as part of the Western Sydney Infrastructure Plan projects and 18 of these intersections are now being built.

With the first stage of The Northern Road Upgrade starting earlier this year, work is now also under way on 13km of the planned 63km of shared pedestrian and cyclist paths.

Expenditure

Of the \$3.6 billion for the Western Sydney Infrastructure Plan, the Australian Government will fund \$2.9 billion, while the NSW Government will invest around \$700 million.

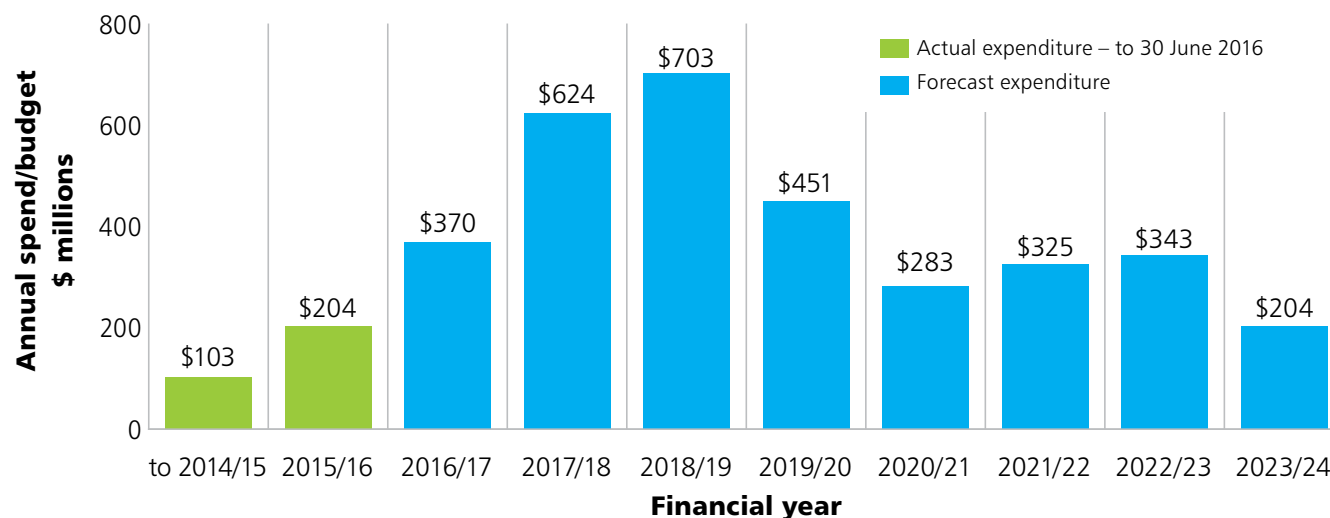
Peak expenditure for the 10 year program is forecast to be approximately \$700 million during the 2018–19 financial year when simultaneous construction will be underway on the majority of projects.

Expenditure on the Western Sydney Infrastructure Plan for the full 2015/16 financial year was \$204 million. This figure was more than the updated mid-year forecast of \$185 million, due to the projects running ahead of schedule and advancing property acquisitions where property owners were keen to exchange contracts in June 2016.

All ten key milestones targeted for the 2015/16 financial year were completed:

- Awarded the construction contract for The Northern Road Upgrade Stage 1 in November

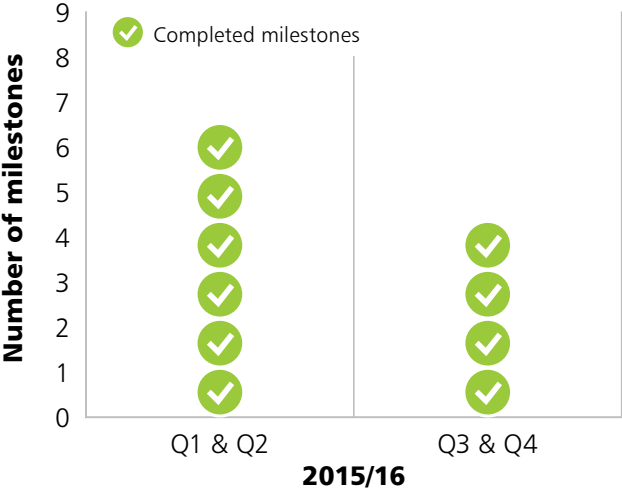
Fig a. Western Sydney Infrastructure Plan actual and forecast expenditure



- Announced the preferred option for The Northern Road Upgrade Stage 3 in July
- Announced the preferred option for The Northern Road Upgrade Stage 4 in November
- Announced the preferred option for The Northern Road and Bringelly Road Interchange in July
- Displayed the Review of Environmental Factors for The Northern Road and Bringelly Road Interchange in November
- Submitted the final project approval for Bringelly Road Upgrade Stage 2 in November
- Started building The Northern Road Upgrade Stage 1 in January
- Finished the detailed design for The Northern Road Upgrade Stage 2 in April
- Determined the environmental assessment process type for The Northern Road and Bringelly Road Interchange in May 2016 following Aboriginal Heritage assessment and consultation
- Completed the detailed design for The Northern Road and Bringelly Road Interchange in June 2016.

Progress so far

Fig b. Milestone performance 2015/16



Eight milestones have been targeted for 2016/17.

Q1 & Q2 FY 16/17

1. **The Northern Road Upgrade, Mersey Road to Glenmore Parkway** – Commence detailed design
2. **The Northern Road Upgrade, Glenmore Parkway to Jamison Road** – Display Review of Environmental Factors
3. **Werrington Arterial Road** – Open to traffic
4. **Local Road Package** – Complete all Round 1 projects

Q3 & Q4 FY 16/17

1. **The Northern Road Upgrade, Peter Brock Drive to Mersey Road and Bringelly Road, King Street to The Northern Road** – Award construction contract
2. **M12 Motorway** – Display the preliminary concept design
3. **The Northern Road Upgrade, Mersey Road to Glenmore Parkway** – Display Environmental Impact Statement
4. **The Northern Road Upgrade, Glenmore Parkway to Jamison Road** – Award construction contract

Environment

Roads and Maritime Services is continuing to implement best-practice environmental controls across all Western Sydney Infrastructure Plan (WSIP) projects. These controls are in place to prevent or minimise environmental impacts at all active construction sites in accordance with environmental approvals and industry best practice. Between July 2015 and June 2016 the Roads and Maritime environment team conducted fortnightly inspections for all projects in delivery.

A proactive environmental management culture has developed amongst the workforce of the Bringelly Road Upgrade Stage 1 project, including a number of best practice environmental innovations in sediment and erosion control.

An Addendum Review of Environmental Factors was required to complete underboring beneath the Great Western Highway as part of the Werrington Arterial Road which is on track to be completed in late 2016.

Over the weekend of the 4 and 5 June 2016, Western Sydney Infrastructure Plan projects received over 280mm of rainfall in a 48 hour period. Projects including Bringelly Road Upgrade experienced flooding with flood water over the road at Kemps and Bonds Creek. Emergency preparedness was undertaken in the lead up to the event which resulted in no major environmental incidents despite the extreme weather.

A range of environmental planning and assessment studies are being carried out for WSIP projects. Biodiversity, cultural heritage, noise and vibration assessments inform the various planning stages and help to minimise the impact of construction activities.

An Environmental Impact Statement is being prepared for The Northern Road Upgrade between Mersey Road and Glenmore Parkway (previously referred to as stages 3 and 4), due to its designation as Critical State Significant Infrastructure. Extensive field surveys and consultation with key stakeholders were undertaken as part of the Environmental Impact Statement's investigations.

Following exhibition of the M12 Motorway short listed options report in February 2016, work has progressed on the development of the preferred corridor route. Environmental investigations and a strategic cost estimate have been carried out to identify potential constraints and opportunities with each option. A value management workshop was held in April 2016 and attended by Australian, NSW and local government representatives. Attendees were asked to consider the relative performance of each option against selection criteria, including environmental impacts, with a view to recommending a corridor route option.

An overall biodiversity offset strategy for the Western Sydney Infrastructure Plan is being prepared. This Australian and NSW government initiative will obtain a reserve of offsets to cover likely future impacts on matters of biodiversity.



Bringelly Road, the new eastbound bridge over the WaterNSW Upper Canal

Progress so far

Work, Health and Safety

A key focus for Roads and Maritime has been to work collaboratively with our industry partners to capture risk information and ensure any close out actions have been allocated to a responsible person for prompt action. The feedback loop for risk information is integral, to ensure the timely close out of actions, as well as lessons learned being shared to improve consistency at our sites and improve the efficacy of the risk controls being implemented.

WSIP projects have incorporated the use of technology at our sites by using drones for traffic assurance activities. Assurance activities have started to collect data capturing traffic behaviour through worksites at Bringelly Road, including the intersection with Camden Valley Way and Old Cowpasture Road. In collaboration with Roads and Maritime site staff and our industry partners we have been able to arrange data collection around activities such as:

- Short term closure of a main side road
- Traffic control during peak hours/no traffic control outside of peak
- Before, during and after removal of speed monitoring devices
- Traffic switches.

This is a tremendous achievement by utilising modern technology and work health safety, to collaborate with the construction industry and share the information collected to improve traffic management at work sites.

The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive took part in data gathering activities on threat and error management in order to address areas of human error in site based work methods. Information gathered from this exercise will be used to develop safety based training for Roads and Maritime and industry partner personnel.

WHS Site Visits

The Roads and Maritime leadership team have carried out site inspections and hazard identification activities at all active Western Sydney Infrastructure Plan sites. The activities focused on during inspections included working adjacent to live traffic, working near mobile plant, working at height and working close to services and utilities. There is a continuing focus on public safety. Recommendations of improvement were forwarded to industry partners for consideration and implementation.

WHS Workshops

Project workshops integrate hazard identification and risk assessment methods early in the project design process and assist in eliminating or minimising the risk of injury to staff and contractors. They ensure mechanisms are in place to capture WHS information and statistics throughout the lifecycle of the asset.

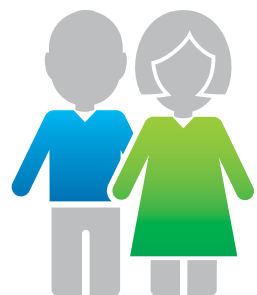
The following workshops were held between July 2015 and June 2016:

- The Northern Road Upgrade, Mersey Road to Eaton Road (previously referred to as Stage 4) – preferred option workshop
- M12 Motorway – strategic corridor route options analysis short listing and value management workshop
- M12 Motorway – strategic corridor route options analysis – preferred corridor route option value management workshop
- M12 Motorway – strategic corridor route option analysis – risk assessment workshop 2
- The Northern Road Upgrade between Peter Brock Drive and Mersey Road (previously referred to as Stage 2) – constructability and safety in design workshop
- The Northern Road Upgrade between Peter Brock Drive and Mersey Road – Safety in Design workshop 2.

Employment

The Australian and NSW governments expect the Western Sydney Infrastructure Plan would create about 4000 direct and indirect jobs over the 10 year lifetime of this program.

As of 30 June 2016 there were 435 staff working on Western Sydney Infrastructure Plan projects, including consultants and contractors. This represents a 33% increase in comparison to last year's report card.



435

Staff working on WSIP projects at 30 June 2016

Supporting Local Business

Approximately \$30.4 million worth of contracts have been awarded to businesses based in western Sydney for the Bringelly Road Upgrade Stage 1, Werrington Arterial Road and The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive.

\$30.4 million



worth of contracts to business in western Sydney

There are 318 sub-contractors and suppliers working across all Western Sydney Infrastructure Plan projects and 156 of them are based in western Sydney.

More than 55% of sub-contracts for the Bringelly Road Upgrade Stage 1 have been awarded to businesses in the western Sydney region.

For the Werrington Arterial Road project, more than 81% of suppliers working for the project are based in western Sydney.

Progress so far

Providing Employment Opportunities

LA Earthworx – Bringelly Road Upgrade Stage 1

Western Sydney based businesses are enjoying a better work life balance and are either expanding or hoping to expand their businesses due to the increasing work opportunities that the Western Sydney Infrastructure Plan is providing.

LA Earthworx, a local detailed excavation business based in Narellan, run by Mr and Mrs Scullino has for the last two years enjoyed working close to home on the Bringelly Road Upgrade Stage 1 project instead of travelling long distance for work opportunities on the other side of Sydney.

Mr Scullino said it was great to finally have the opportunity to work closer to home.

“With a young son and another one on the way, working closer to home gives my whole family a much better quality of life.”

But it is not all about quality of life, Mr Scullino explains that he has seen the changes to the area and improvements to the community’s infrastructure in western Sydney and sees this opportunity as a chance to grow his business and employ more staff.

“I see the upcoming work as a great opportunity to grow my business and I am looking to employ more staff. For me, this is only possible with other road projects in the area over the coming years.”



Mr Scullino from LA Earthworx



Community Information Session in March 2016

Consultation

Roads and Maritime Services is committed to transparent and inclusive consultation across all development projects. Wherever possible, communities and stakeholders are provided with opportunities to provide feedback and suggestions which can influence decisions and strategic planning. These opportunities occur as projects approach specific milestones such as selecting new road corridor alignments or during the display of environmental assessments.

The community is encouraged to have a say at important milestones during project development through:

- One-on-one meetings
- Community information sessions
- Information displays
- Postal submissions
- Roads and Maritime and other NSW Government websites.

180,178

project update newsletters, letters and notifications sent from July 2015 to June 2016

Project update



Progress so far

Information on Western Sydney Infrastructure Plan projects is provided through:

- Project update newsletters
- Regular website updates
- Letters to land owners and residents
- Staff visiting affected land owners and residents
- Electronic message signs targeting road users.

180,178 project update newsletters, letters and notifications were distributed for Western Sydney Infrastructure Plan projects from 1 July 2015 to 30 June 2016. Our project teams also met with education institutions, businesses, councils, other government agencies and residents and property owners throughout project areas to consult on various project matters.

The Western Sydney Infrastructure Plan web pages received 65,911 visits during the 2015/16 financial year.

Over the last 12 months, Roads and Maritime consulted with the community to seek feedback and provide information for the following project milestones:

- The shortlisted route options for The Northern Road Upgrade between Mersey Road, Bringelly and Littlefields Road, Luddenham (previously referred to as stage 4)
- The preliminary design and access strategy for The Northern Road Upgrade between Littlefields Road, Luddenham and Jamison Road, South Penrith (previously referred to as stage 3)
- The study area for the proposed M12 Motorway between the M7 Motorway, Cecil Hills and The Northern Road, Luddenham
- The preferred alignment for The Northern Road and Bringelly Road Interchange, Bringelly
- The preliminary design and Review of Environmental Factors for The Northern Road and Bringelly Road Interchange, Bringelly

- The preliminary design and access strategy for The Northern Road Upgrade between Mersey Road and Eaton Road (previously part of stage 4)
- The shortlisted route options for the proposed M12 Motorway between the M7 Motorway, Cecil Hills and The Northern Road, Luddenham.

More than 1200 people attended twelve Roads and Maritime community information sessions. Over 430 feedback submissions were received and carefully considered in further planning and development.

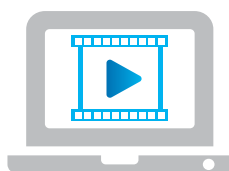
Road and Maritime staff also attended the ten community information sessions hosted by the Department of Infrastructure and Regional Development in October and November 2015 to display the planned western Sydney airport's draft Environmental Impact Statement and draft Airport Plan.

Roads and Maritime is continually updating the interactive digital portal on the Western Sydney Infrastructure Plan web page which features project information, animated videos, maps and photo galleries. To explore the interactive digital portal, visit rms.nsw.gov.au/wsip.



65,911

Visits to project web page during July 2015 to June 2016



22,410

More than 9260 people visited the portal, playing the videos around 22,410 times since its launch in July 2015.

Bringelly Road Upgrade

The \$509 million Bringelly Road Upgrade is being delivered in two stages to support the development of growth centres, employment and a planned western Sydney airport at Badgerys Creek.

This 10km project includes upgrading Bringelly Road from two lanes to a six lane divided road between the eastern side of Upper Canal bridge and Eastwood Road, through the future Leppington Town Centre.

The rest of Bringelly Road will also be upgraded from two lanes to a four lane divided road with a central median, allowing for widening to six lanes, when required.



Being built

Bringelly Road Upgrade Stage 1

Camden Valley Way, Leppington to King Street, Rossmore

Approximately 1km of new road was opened to motorists in December 2015. This traffic switch was a significant milestone as it marked the first section of road in the Western Sydney Infrastructure Plan package to be opened to motorists.

The first concrete bridge spans for the bridge over the Upper Canal were completed three months ahead of schedule. The concrete bridge span installation consisted of ten beams, each weighing 40 tonnes, lifted by a 450 tonne crane over a two day period.

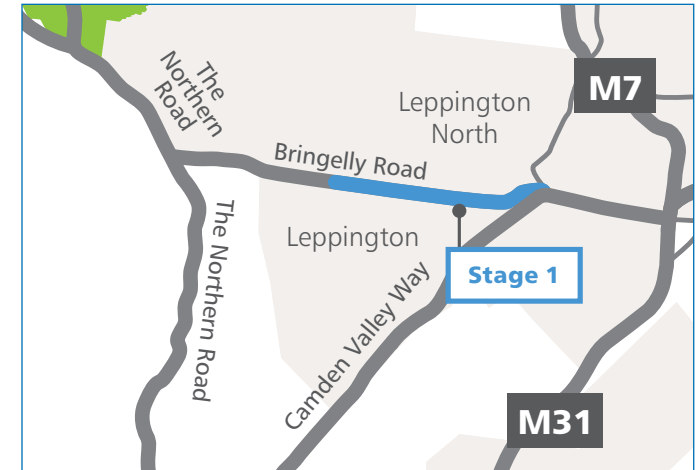
Benefits

- Increased capacity for future growth and improved access to the new Leppington Railway Station and the M5 and M7 Motorways
- Improved access to a planned western Sydney airport at Badgerys Creek and Western Sydney Priority Growth Area

- Improved access and travel times for freight in Sydney's south-west
- Landscaping and improved street lighting.

Features

- 80km/h speed limit
- New traffic lights at seven existing intersections with designated right and left turning lanes
- Realignment of the Bringelly Road/Camden Valley Way/Cowpasture Road intersection and upgrade of the traffic lights
- Nine intersections to be improved
- An extension to the existing noise wall on the corner of Cowpasture Road and Camden Valley Way.



Project snapshot

Project value Stages 1 and 2: \$509 million

Construction contractor:
BMD Constructions Pty Ltd (Stage 1 only)

Construction started: January 2015

Expected to be open to traffic: 2017

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Progress – July 2015 to June 2016

- \$65.5 million was spent in the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$136.5 million
- Forecast expenditure for 2016/17 financial year is expected to total \$64.5 million
- 27 days lost to wet weather
- 5.7km of roads and 8km of shared pedestrian and cyclist path is currently being built
- Concrete bridge spans for the eastbound bridge over the Upper Canal were placed in November and the bridge deck was poured in December
- 1km new section of road was opened to motorists in December
- Utility relocation works have progressed significantly
- Eastbound traffic at the intersection of Bringelly Road, Camden Valley Way and Cowpasture Road was switched onto its final alignment in June
- A 6m high fence was built at the WV Scott Memorial Park.

Next Steps

- Continue relocation work for electrical, telecommunications, gas and water utilities
- Continue property adjustments
- Complete construction of noise wall
- Implement a traffic switch onto the new eastbound lanes between Western Sydney Parklands and Edmondson Avenue (including over the new eastbound bridge over the Upper Canal)
- Demolition of the existing bridge over the upper canal to then construct the new westbound bridge.

Next major milestone

Open to traffic late 2017.



9 Intersections
to be improved



New Bringelly Road carriageway west of Cowpasture Road, Leppington



In final design

Bringelly Road Upgrade Stage 2

King Street, Rossmore to The Northern Road, Bringelly

The Bringelly Road upgrade between King Street and The Northern Road and The Northern Road upgrade between Peter Brock Drive and Mersey Road (including the grade separated interchange) will be delivered as one project.

The projects will be delivered together to ensure a coordinated approach to construction and help reduce the impact to local residents and traffic while work is carried out. It will also create cost and time efficiencies during the tender process which will help accelerate these projects so they can be delivered to communities in western Sydney as quickly as possible.

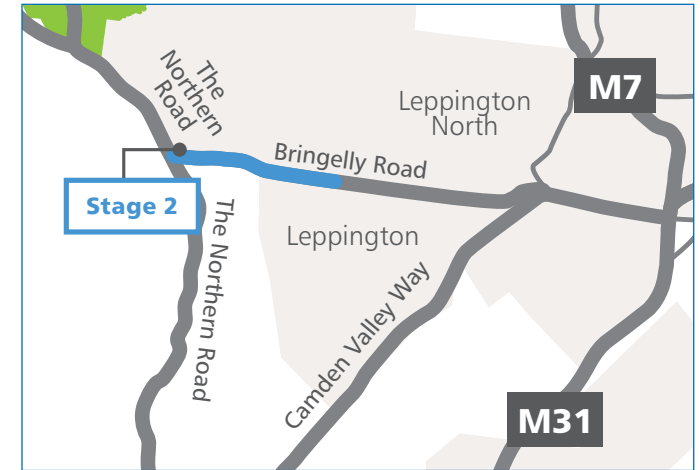
Features

- 4.3km of road to be built
- 4.2km of shared pedestrian and cyclist path to be built
- Four new intersections with traffic lights and upgrades to three existing intersections

- New traffic lights at four existing intersections with designated right and left turning lanes
- Twin bridges over South Creek.

Progress – July 2015 to June 2016

- \$26.6 million was spent during the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$30 million
- Forecast expenditure for the 2016/17 financial year is expected to be \$10 million
- Rossmore Public School carpark design has been progressed
- Completed review of the detailed road design
- Expression of interest period (combined with The Northern Road Upgrade between Peter Brock Drive and Mersey Road) closed in May 2016.



Project snapshot

Project value for Stages 1 and 2: \$509 million

Design contractor:
AECOM (formerly URS Australia Pty Ltd)

Expected start of construction:
First half of 2017

Expected to be open to traffic: 2020

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Next Steps

- Continue property acquisitions and utility designs
- Shortlist the expression of interest applicants and invite tenders to be submitted (combined with The Northern Road Upgrade between Peter Brock Drive and Mersey Road).

Next major milestone

Award the construction tender by early 2017.



7 Intersections
to be improved



Bringelly Road, Bringelly



Being built

Werrington Arterial Road

M4 Motorway to the Great Western Highway, Claremont Meadows

The Australian and NSW governments have funded a \$70 million upgrade of Gipps Street and Kent Road between the M4 Motorway and the Great Western Highway, Claremont Meadows.

Work to construct the new shared pedestrian and cyclist bridge over the M4 Motorway started in July 2015 and is in the final stage of construction. Traffic on Gipps Street was switched onto new southbound traffic lanes in January 2016. The project is expected to be opened to traffic in late 2016, weather permitting.

Benefits

- Create better access and network connections for motorists and road freight by providing new east facing ramps on and off the M4 Motorway
- Reduce congestion and provide more reliable travel times, especially on The Northern Road and Mamre Road

- Enhance safety at intersections with traffic lights, pedestrian crossings, separate turning lanes, and a separate shared path.

Features

- Traffic lights on Kent Road for the new eastbound entry ramp to the M4 Motorway and at the westbound M4 Motorway exit ramp and three intersection upgrades with traffic lights
- A shared pedestrian and cycle bridge over the M4 Motorway and new line marking on the Kent Road bridge to create two northbound lanes and one southbound lane
- Improvements to five intersections
- A noise wall on the western side of Gipps Street between Caddens Road and the Great Western Highway.



Project snapshot

Project value: \$70 million

Construction contractor:
Burton Contractors Pty Ltd

Construction started: March 2015

Expected to be open to traffic: Late 2016

Australian Government contribution:
50 per cent

NSW Government contribution: 50 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Progress – July 2015 to June 2016

- \$27.7 million was spent in the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$36.1 million
- Forecast total expenditure for the 2016/17 financial year is \$17 million
- 26 days lost to wet weather
- 2km of roads being built
- 2km of shared pedestrian and cyclist paths being built.

Next Steps

- Finish earthworks near the M4 Motorway
- Complete utility relocations
- Build noise wall
- Complete construction of the northbound carriageway and local roads
- Complete Great Western Highway intersection.

Next major milestone

Open to traffic late 2016.



Werrington Arterial Road new shared pedestrian pathway over the M4 Motorway west of the Kent Road Bridge, Claremont Meadows



5 Intersections
to be improved



The Northern Road Upgrade

The Northern Road Upgrade is about 35km in length between The Old Northern Road at Narellan and Jamison Road at South Penrith.

The Northern Road Upgrade was previously divided into four stages (1, 2, 3 and 4) but due to a review of the procurement strategy over the last twelve months, it is now expected to be delivered in six sections including:



Being built

- The Old Northern Road, Narellan and Peter Brock Drive, Oran Park (3.3km) – this is the first section under construction and is expected to be open to traffic in 2018



Design complete

- Peter Brock Drive, Oran Park and Mersey Road, Bringelly (11km) – this section will be constructed together with the Bringelly Road Upgrade between King Street and The Northern Road (including a new grade separated interchange with Bringelly Road)



In planning

- Mersey Road, Bringelly and Eaton Road, Luddenham (5.5km)
- Eaton Road, Luddenham and Littlefields Road, Luddenham (4.5km)
- Littlefields Road, Luddenham and Glenmore Parkway, Glenmore Park (6km)



Assessing tender

- Glenmore Parkway, Glenmore Park and Jamison Road, South Penrith (4km)

The Northern Road Upgrade will cater for future traffic from planned residential and commercial developments in time for a western Sydney airport planned to open in the mid-2020s.

This major road upgrade will provide access to the Western Sydney Employment Area, the South West Priority Growth Area, and a planned western Sydney airport.

All six of the upgrade sections are expected to be finished by 2020.



Being built

The Northern Road Upgrade, The Old Northern Road, Narellan to Peter Brock Drive, Oran Park

Construction on The Northern Road Upgrade between The Old Northern Road, Narellan to Peter Brock Drive, Oran Park started in January 2016, with the construction contract awarded to Georgiou Group Pty Ltd. Roads and Maritime hosted a launch event on site in recognition of the significant milestone.

Features

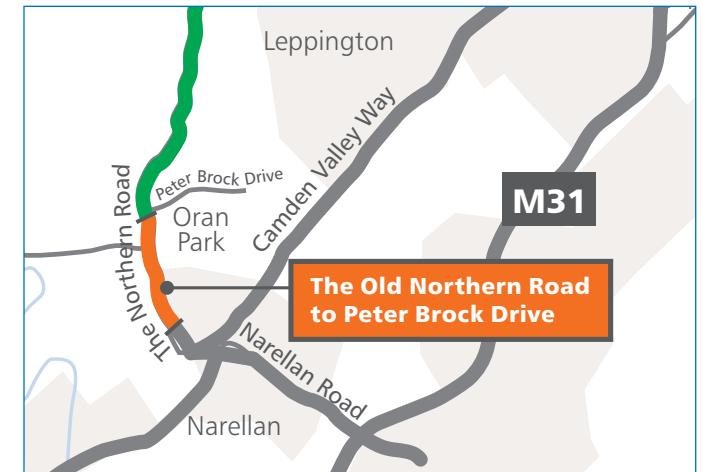
- 3.3km of road to be built
- 3.3km of shared pedestrian and cyclist path to be built
- Four intersections to be built
- 80km/h speed limit
- Traffic light improvements at three intersections
- Bus priority lanes in each direction to avoid interference with traffic flow
- Two new bridges over Narellan Creek.

Progress – July 2015 to June 2016

- \$15 million was spent in the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$21.5million
- Forecast total expenditure for the 2016/17 financial year is \$40 million
- Aboriginal Heritage Impact Permit received October
- Construction started in January 2016.

Next Steps

- Relocating public utilities including gas, electricity, telecommunication and water services along the route
- Building the new northbound bridge over Narellan Creek
- Building the northbound lanes including earthworks, drainage and road surfacing
- Starting construction of the southbound lanes
- Demolishing the existing bridge over Narellan Creek to then build the new southbound bridge.



Project snapshot

Project value (of all 6 sections): \$1.6 billion

Construction contractor for this section:
Georgiou Group Pty Ltd

Contract awarded: November 2015

Expected to be open to traffic: 2018

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Next major milestone

Installing bridge girders for the northbound bridge over Narellan Creek and switching traffic to the newly built northbound lanes.



4 Intersections
to be improved



Roundabout at The Northern Road and Fairwater Drive/Porrende Street, Harrington Park looking west



In final design

The Northern Road Upgrade, Peter Brock Drive, Oran Park to Mersey Road, Bringelly

(Including the grade separated interchange with Bringelly Road)

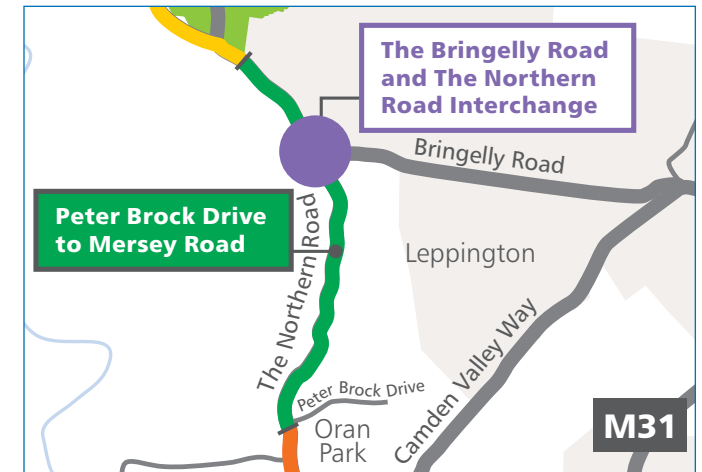
The detailed design of The Northern Road Upgrade between Peter Brock Drive, Oran Park and Mersey Road, Bringelly was finalised in March 2016.

This project now also includes the major grade separated interchange at Bringelly Road and The Northern Road and will be constructed together with the second stage of the Bringelly Road Upgrade between King Street and The Northern Road as one project.

The projects will be delivered together to ensure a coordinated approach to construction and help reduce the impact to local residents and traffic while work is carried out. It will also create cost and time efficiencies during the tender process which will help accelerate these projects so they can be delivered to communities in western Sydney as quickly as possible.

Features

- About 11km of road to be built
- About 11km of shared pedestrian and cyclist path to be built
- Nine intersections with traffic lights to be built and a further six intersections to be upgraded
- A four meter wide shoulder in both directions
- Existing bridge at Thompsons Creek will be replaced with new twin bridges
- An interchange to separate vehicles on The Northern Road and Bringelly Road to allow for better traffic flow, with The Northern Road passing under Bringelly Road
- A new connection from Robinson Road to The Northern Road and an off-road shared path for pedestrians and cyclists
- Changes to access for some properties along The Northern Road, Bringelly Road and Robinson Road.



Project snapshot

Project value (of all 6 sections): \$1.6 billion

Design contractor: GHD Pty Ltd

Expected start of construction:
First half of 2017

Expected to be open to traffic: 2020

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Progress – July 2015 to June 2016

- \$35.7 million was spent in the 12 months of the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$41.7 million
- Forecast expenditure for the 2016/17 financial year is \$60.4 million
- Review of Environmental Factors for the interchange was displayed for public comment in November and December 2015
- Project approval for the interchange was determined in May 2016 and submissions report published in June 2016
- Electrical design packages were submitted to Endeavour Energy
- Continued with property valuations and liaising with property owners
- Expression of Interest period (combined with the Bringelly Road Upgrade between King Street and The Northern Road) closed in May 2016.

Next Steps

- Apply for Aboriginal Heritage Impact Permit and Environment Protection License
- Shortlist the Expression of Interest applicants and invite tenders to be submitted (combined with the Bringelly Road Upgrade between King Street and The Northern Road)
- Continue property acquisitions.

Next major milestone

Award construction tender in early 2017.



Intersection of The Northern Road and Badgerys Creek Road, Badgerys Creek looking south



The Northern Road Upgrade between Mersey Road, Bringelly and Glenmore Parkway, Glenmore Park

An Environmental Impact Statement (EIS) is currently being prepared for The Northern Road Upgrade between Mersey Road, Bringelly and Glenmore Parkway, Glenmore Park.

While the EIS is being prepared to cover the extent from Mersey Road, Bringelly to Glenmore Parkway, Glenmore Park, the upgrade is expected to be constructed in three separate sections between:

- Mersey Road, Bringelly and Eaton Road, Luddenham (5.5km)
- Eaton Road, Luddenham and Littlefields Road, Luddenham (4.5km)
- Littlefields Road, Luddenham and Glenmore Parkway, Glenmore Park (6km).

Features:

Mersey Road, Bringelly to Eaton Road, Luddenham

- 5.5km of road and 5.5km of shared pedestrian and cyclist path to be built
- Diverting The Northern Road to the west of the planned western Sydney airport site and the existing The Northern Road and then to the east of Luddenham
- Widening from two lanes to a six lane divided road, with a wide median to allow for eight lanes if required in the future
- Installing new traffic lights and turning lanes at some intersections
- Bus priority lanes in each direction to avoid interference with traffic flow.

Project snapshot

Project value (of all 6 sections): \$1.6 billion

Design consultant: Jacobs Pty Ltd for the section between Mersey Road, Bringelly and Eaton Road, Luddenham

Expected start of construction:
Late 2017 (in stages)

Expected to be open to traffic: 2020 (in stages)

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Eaton Road, Luddenham to Littlefields Road, Luddenham

- 4.5km of road and 4.5km of shared pedestrian and cyclist path to be built
- New four-way traffic light intersection to connect the realigned The Northern Road, the existing The Northern Road and the realigned Elizabeth Drive
- Left out turns only from the existing Elizabeth Drive to The Northern Road
- Future connection to the proposed M12 Motorway
- Installing new traffic lights and turning lanes at some intersections
- Bus priority lanes in each direction to avoid interference with traffic flow
- Access to the Luddenham town centre.

Littlefields Road, Luddenham to Glenmore Parkway, Glenmore Park

- About 6km of road and about 6km of shared pedestrian and cyclist path to be built
- A new four-way traffic light intersection at Littlefields Road and The Northern Road
- A new road connection between the proposed eastern extension of Littlefields Road and Gates Road
- Left in turns only onto Gates Road from The Northern Road
- Bus priority lanes in each direction to avoid interference with traffic flow.

Progress – 1 July 2015 to 30 June 2016

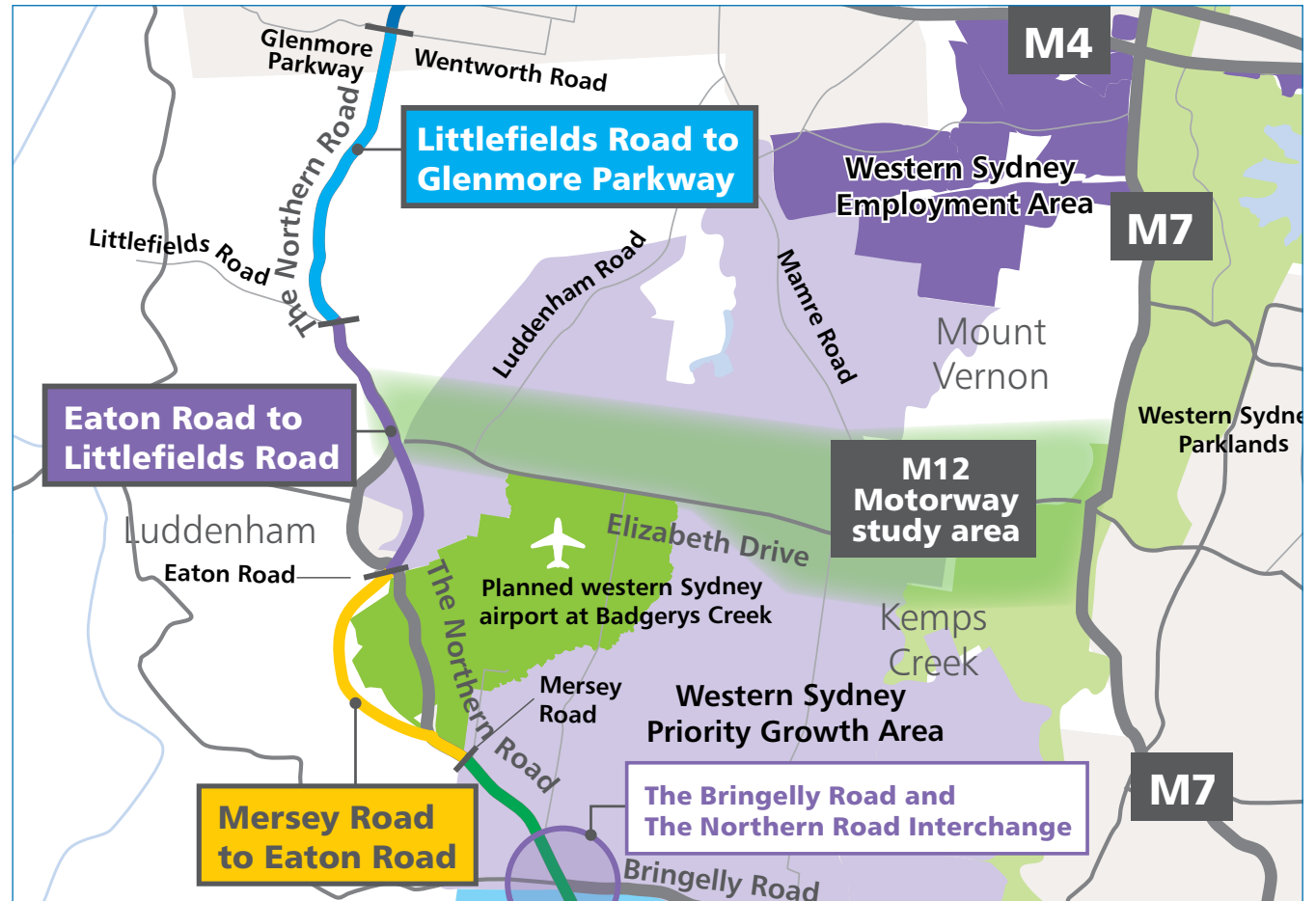
- \$4.8 million was spent during the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$5.7 million
- Forecast expenditure for the 2016/17 financial year is \$79 million
- Consulted the community about the preliminary concept design and access strategy for the section between Mersey Road, Bringelly and Eaton Road, Luddenham in February and March 2016 – detailed design has commenced
- Completed further work to refine the road design between Littlefields Road, Luddenham and Glenmore Parkway, Glenmore Park following feedback from the community in late 2015 and early 2016
- Undertook EIS specialist studies.

Next Steps

- Consult with the community in July and August 2016 about the preliminary concept design and access strategy for the section between Eaton Road, Luddenham and Glenmore Parkway, Glenmore Park
- Complete detailed design for the section between Mersey Road, Bringelly to Eaton Road, Luddenham
- Commence detailed design for the section between Eaton Road, Luddenham and Glenmore Parkway, Glenmore Park.

Next major milestone

Display the Environmental Impact Statement in early 2017.



Map showing the three sections of The Northern Road Upgrade between Mersey Road, Bringelly and Glenmore Parkway, Glenmore Park



The Northern Road Upgrade, Glenmore Parkway, Glenmore Park to Jamison Road, South Penrith

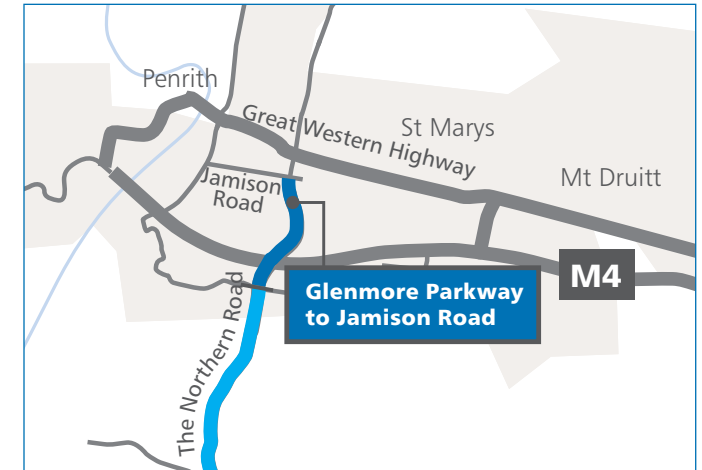
In January 2016, three contractors were shortlisted to submit tenders to design and construct this section of The Northern Road Upgrade and the tenders were received in June 2016. Roads and Maritime will assess the tenders with the aim to announce the successful contractor in late 2016.

Features

- 4km of road and 4km of shared pedestrian and cyclist path to be built
- 10 intersections to be built
- Bus priority lanes in each direction to avoid interference with traffic flow
- Installing new traffic lights and turning lanes at some intersections.

Progress – July 2015 to June 2016

- \$7 million was spent during the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$8.2 million
- Forecast expenditure for the 2016/17 financial year is \$41 million
- Consulted the community about the preliminary concept design and access strategy
- Expression of interest to design and construct this section of upgrade closed in December 2015
- In March 2016, three contractors were invited to submit a tender
- Tenders from the three successful contractors were received in June 2016.



Project snapshot

Project value (of all 6 sections): \$1.6 billion

Design and construct consultant:
TBC in late 2016

Expected start of construction: Mid-2017

Expected to be open to traffic: 2020

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Next Steps

- Continue land acquisition discussions with property owners
- Display the Review of Environmental Factors for community consultation in late 2016
- Assess the submitted tenders to design and construct this section of the upgrade
- Award the design and construct contract to the successful contractor.

Next major milestone

Award the design and construct contract in late 2016.



The Northern Road Upgrade, Glenmore Parkway, Glenmore Park to Jamison Road, South Penrith



M12 Motorway

Between the M7 Motorway, Cecil Hills and The Northern Road, Luddenham

The \$1.25 billion M12 Motorway is proposed to connect the M7 Motorway near Cecil Hills to The Northern Road at Luddenham. The M12 Motorway will provide direct access to the planned western Sydney airport at Badgerys Creek and connect to Sydney's motorway network.

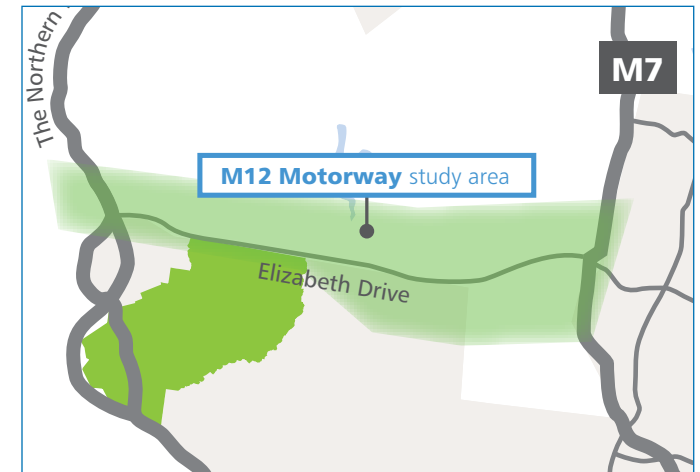
The M12 Motorway would be approximately 14km long and built as a four lane road with capacity for six lanes in the future with a central median to separate opposing traffic flows.

The preferred corridor route is expected to be generally parallel to Elizabeth Drive. Roads and Maritime will consult with the community at important stages during the project's development to ensure the best possible outcome for the community and the area.

Features

- Approximately 14km of road and shared pedestrian and cyclist paths
- Provide direct access from the M7 Motorway to the planned western Sydney airport site at Badgerys Creek and enhanced access to the Western Sydney Priority Growth Area and the South West Priority Land Release Area
- Improve the connection between the M7 Motorway and the upgraded The Northern Road to benefit road users across western and south western Sydney
- Improve road freight movement to key commercial centres and reduce congestion costs to business and the community
- Grade separated interchanges at the planned western Sydney airport, the M7 Motorway and The Northern Road.

The project scope will be updated as the design progresses.



Project snapshot

Project value: \$1.25 billion

Design consultant: Aurecon
(strategic corridor route options)

Expected start of construction: 2020

Expected to be open to traffic: 2024

Australian Government contribution:
80 per cent

NSW Government contribution: 20 per cent



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Progress – 1 July 2015 to 30 June 2016

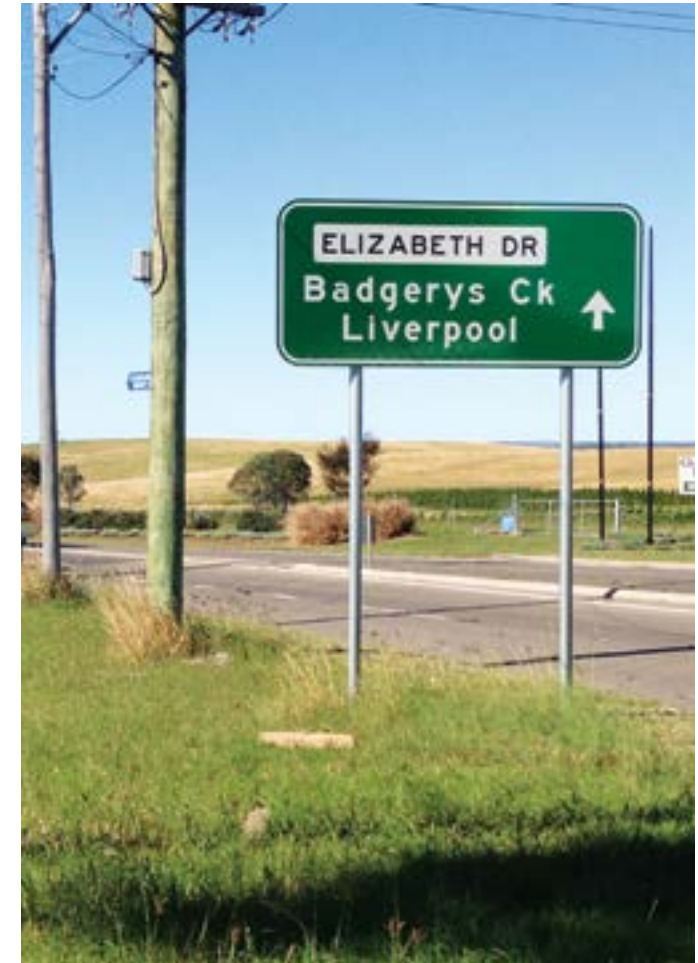
- \$3.5 million was spent during the 2015/16 financial year
- Total expenditure as of 30 June 2016 is \$4.2 million
- Forecast expenditure for the 2016/17 financial year is \$15 million
- Determined study area and engaged consultant to conduct strategic corridor route options analysis
- Eight corridor route options were shortlisted and presented to the community for feedback in February and March 2016
- Completed the preliminary field investigations to inform the preferred corridor route.

Next Steps

- Announce the preferred corridor route in the second half of 2016
- Award concept design and environmental assessment by early 2017
- Commence development of the environmental assessment late 2016
- Consultation on preliminary design and access strategy in the first half of 2017.

Next major milestone

Announce the preferred corridor route in the second half of 2016 and display preliminary design and access strategy in the first half of 2017.



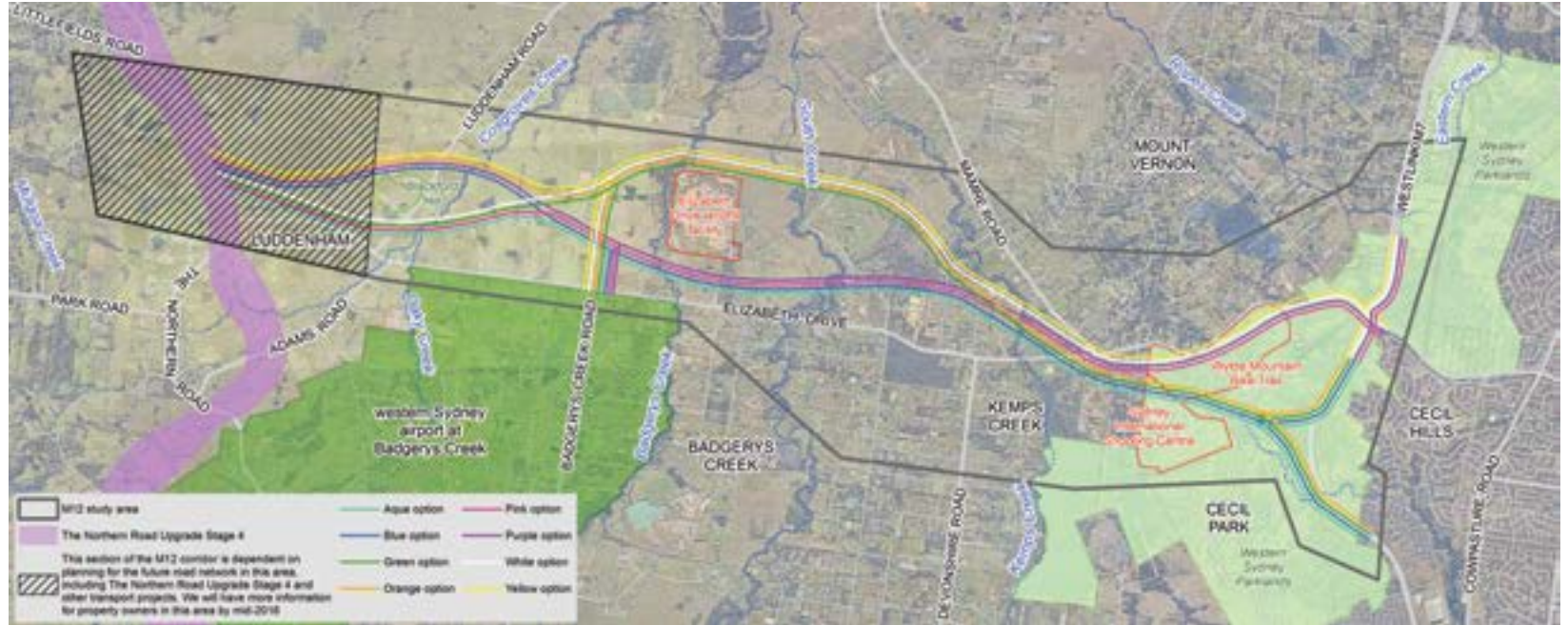
Elizabeth Drive looking east

M12 Motorway

Corridor route options

In February and March 2016 Roads and Maritime Services invited comments from the community on the eight shortlisted corridor route options for the proposed M12 Motorway. The feedback provided during the consultation period is being considered in the selection of the preferred corridor route which is expected to be announced in the second half of 2016.

A copy of the Community Consultation Report is available at www.rms.nsw.gov.au/wsip.



M12 Motorway corridor route options



Scoping and investigation



Announce preferred option



Display environmental assessment



Project approval



Detailed design



Award contract



Building started



Open to traffic

Glenbrook Intersection Upgrade



In planning

The Australian and NSW governments are funding a \$5 million upgrade of the Ross Street and the Great Western Highway intersection, Glenbrook as part of the Western Sydney Infrastructure Plan.

Blue Mountains Council carried out community consultation on the proposed upgrade in December 2015. 111 individual submissions and one petition were received from the community, responding to the options on display. This feedback has been reviewed and will help determine the best outcome for the Glenbrook Intersection Upgrade. A preferred concept design option was put forward by Council in August 2016.



Great Western Highway and Ross Street intersection

Local Roads Package

The Australian Government is funding a \$200 million Local Roads Package as part of the Western Sydney Infrastructure Plan. This will allow local councils to deliver targeted road improvement projects to enhance local transport connections in western Sydney. Funding will be announced progressively over four rounds.

- \$35 million was allocated to local councils as part of the first round of announcements in 2014. The majority of projects funded in round one are now complete
- \$62 million was allocated to local councils in the second round of funding announced in January 2016. Projects funded in round two will begin from July 2016.

Round One Projects

The Northern Road and Erskine Park Road Study

Penrith City Council was granted \$1.1 million for two traffic, safety and scoping studies to identify issues and options to upgrade a number of intersections on The Northern Road between the M4 Motorway and the Great Western Highway, South Penrith and on Erskine Park Road between the M4 Motorway and Mamre Road, Erskine Park.

The traffic modelling studies are now complete and have assisted Penrith City Council to secure second round funding for intersection upgrades on The Northern Road and on Erskine Park Road.

Cumberland Highway Intersection Upgrades

Fairfield City Council was granted up to \$5.8 million across two years to upgrade the intersections of:

- Cumberland Highway and Hamilton Road
- Cumberland Highway and St Johns Road
- Cumberland Highway and John Street.

The upgrades include local road widening, increased capacity of turning bays and the re-phasing of traffic lights and are being delivered by Abergeldie Contractors.

The upgrade of the intersection at John Street and Cumberland Highway was completed and opened to traffic May 2016. Work at the intersections of Hamilton Road and St Johns Road is nearing completion and scheduled to be open to traffic in September 2016.



Wetherill Street Upgrade, Smithfield

Wetherill Street Upgrade

Fairfield City Council was granted up to \$8.2 million across two years to upgrade Wetherill Street, Wetherill Park between Polding Street and Victoria Street.

The upgrade includes widening Wetherill Street from two lanes to four lanes, straightening the road and providing new traffic lights at the intersection of Wetherill Street and The Horsley Drive and at the intersection of Wetherill Street and Shakespeare Street as well as new pedestrian lights outside Smithfield West Primary School.

Abergeldie Contractors who was awarded the contract completed the Wetherill Street project on 1 July 2016.

Eagle Vale Drive Upgrade

Campbelltown City Council was granted up to \$17.5 million across two years to upgrade Eagle Vale Drive, between Badgally Road and Raby Road. The upgrade includes widening to a four lane divided road, and new traffic lights at the Epping Forrest Drive intersection and the Badgally Road intersection.

Road widening over a 1.7km length and a new shared path on the western side of the road corridor were completed in November 2015. Work on the traffic lights at Badgally Road and at Epping Forrest Drive is underway and expected to be complete in October 2016.

Argyle Street/Camden Valley Way Corridor Upgrade – Stage 1

Camden Council was granted up to \$2.14 million across two years to build new traffic lights at the intersection of Argyle Street and Oxley Street, Camden and new pedestrian lights in Argyle Street west of Hill Street. Work on the Oxley Street traffic lights was completed in December 2015 and work on the pedestrian lights is progressing and scheduled to be completed in July 2016.

Argyle Street/Camden Valley Way Upgrade study – Stage 2

Camden Council was granted \$150,000 for a study to identify future road improvement opportunities along Camden Valley Way between the Camden Town Centre and The Northern Road. The study was completed in September 2015 and Camden Council has used the findings of the study to develop their submission for the second round of the Local Roads Package funding allocation.

Argyle Street/Camden Valley Way/ Macarthur Road Intersection Study

Camden Council was granted \$50,000 to test options and complete a detailed design to improve safety and efficiency at this intersection. This work was completed in July 2015 and Camden Council has received construction funding as part of the second round of the Local Roads Package funding allocation.

Local Roads Package

Round Two Projects

The Australian Government invited councils to submit proposals for the second round of the Local Roads Package in July 2015. Assessment of the submissions was completed in October 2015, with successful applicants announced in January 2016 and funding made available to Councils from July 2016.

Smithfield Road Upgrade

Fairfield City Council was granted \$16.4 million to upgrade Smithfield Road to a four lane road. The project includes a number of intersection upgrades and realignment of Richards Road at Smithfield Road.

Erskine Park Road and Peppertree Drive Intersection Upgrade

Penrith City Council was granted \$11.3 million to upgrade the existing intersection at Erskine Park Road and Peppertree Drive to a seagull intersection. The upgrade will improve road safety and traffic efficiency.

Erskine Park Road and Bennett Road Upgrade

Penrith City Council was granted \$7.5 million to upgrade the intersection at Bennett Road and Erskine Park Road and install traffic lights. The upgrade will improve road safety and traffic efficiency.

Erskine Park Road and Coonawarra Drive Intersection Upgrade

Penrith City Council was granted \$6.9 million to upgrade the intersection at Coonawarra Drive and Erskine Park Road to a seagull intersection. The upgrade will improve road safety and traffic efficiency.

Erskine Park Road and Explorers Way Intersection Upgrade

Penrith City Council was granted \$3.4 million to upgrade the intersection at Explorers Way and Erskine Park Road and install traffic lights. The upgrade will improve road safety and traffic efficiency.

At the completion of the Erskine Park Road intersection upgrades, Erskine Park Road will have been widened to four lanes between Bennett Road and Explorers Way to join the existing four lane section north of this location.

The Northern Road Intersections Upgrade

Penrith City Council was granted \$6.7 million to upgrade intersections on The Northern Road at the Great Western Highway and at Derby Street. A roundabout will also be built at the Bringelly Road/Caddens Road intersection. The upgrade of these intersections will improve road safety and traffic efficiency.

Camden Valley Way/Argyle Street – Stage 2 – Macarthur Road Intersection

Camden Council was granted \$4.3 million to realign Macarthur Road on the approach to Camden Valley Way and install new traffic lights at the Camden Valley Way and Macarthur Road intersection.

Camden Valley Way/Argyle Street – Grahams Hill Road and Richardson Road Intersection

Camden Council was granted \$4.0 million to upgrade the intersection to include right turn bays on Camden Valley Way into Grahams Hill Road. The project also includes traffic light adjustments and a new shared path on the southern side of Camden Valley Way.

Raby Road from Eschol Park Drive to Stranraer Drive scoping study

Campbelltown City Council was granted \$655,000 to carry out traffic, safety and scoping studies to identify issues and options to upgrade Raby Road from Eschol Park Drive to Stranraer Drive. This work will also include an environmental assessment and community consultation to address any future projects.

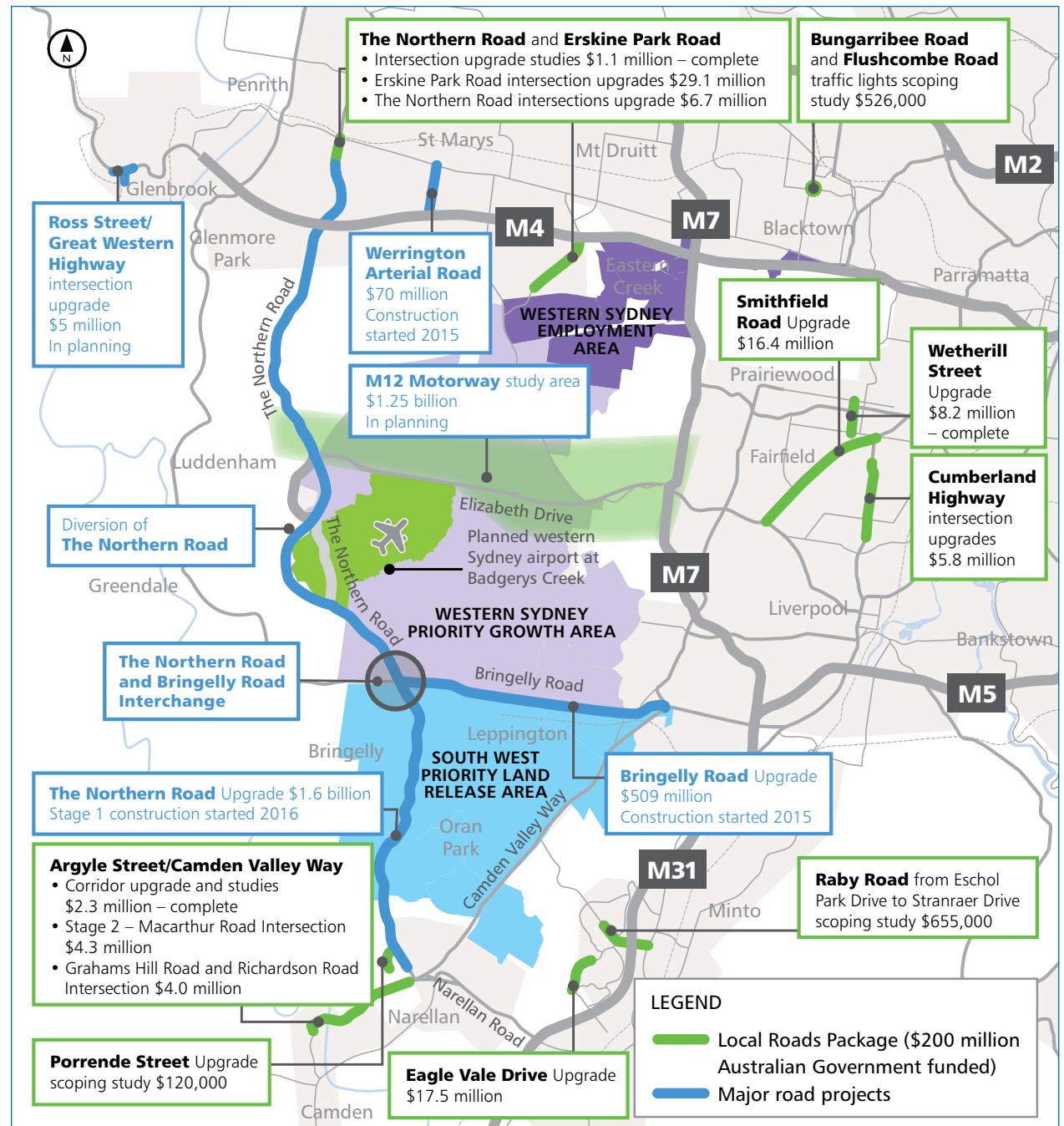
Local Roads Package

Bungarribee Road and Flushcombe Road signalisation scoping

Blacktown City Council was granted \$526,000 to develop options and complete preliminary investigations for safety and efficiency improvement at this intersection.

Porrende Street Upgrade scoping


Camden Council was granted \$120,000 to develop options and complete a concept design for Porrende Street between The Northern Road intersection and Grahams Hill Road.





The Northern Road Upgrade between The Old Northern Road and Peter Brock Drive

For further information about the Western Sydney Infrastructure Plan visit the interactive digital portal

 rms.nsw.gov.au/WSIP

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