

Project Newsletter

September 2015

The Gateway Upgrade North project has progressed to the final design stage following the announcement of a preferred contractor to design and construct the \$1.162 billion project.

Following a ten month tender process conducted by the Department of Transport and Main Roads and Transurban Queensland, Lend Lease Engineering Pty Limited has been chosen to design and construct the Gateway Upgrade North project.

The interactive tender process has ensured the best value outcomes and the most innovative solutions to provide maximum benefit to motorists and the community.

The original Gateway Upgrade North Preferred Plan was released to the public in October 2013. As a result of the tender process, a number of key innovations have been made to improve the Preferred Plan, including:

- ▶ Future proofing the motorway by making allowance for the six lane upgrade to be widened to eight lanes in the future, accommodating forecasted traffic increases and population growth.
- ▶ Incorporating an off-road pedestrian and bicycle path along the entire length of the project with covered rest areas and a new pedestrian/cycle connection over the Sandgate Road/Shorncliffe rail line.
- ▶ Constructing a new northbound bridge over Sandgate Road and the Shorncliffe rail line to replace the existing bridge and avoid long term maintenance issues.
- ▶ Improved outcomes for the Deagon Racecourse. Under the Preferred Plan the racetrack had to be realigned, however under the revised design the track will be unaffected and only the starting chute will be relocated.
- ▶ Significantly reduced impact on the Deagon Wetlands.
- ▶ Relocation of the motorway ramps to and from the upgraded Deagon Deviation to improve safety outcomes and increase capacity.
- ▶ Rehabilitation of the Gateway Motorway between Bracken Ridge and the Bruce Highway including pavement and safety improvements.



See map overleaf for further detail on the project's design

Early works update

The early works currently being undertaken by contractor Fulton Hogan are well advanced. These works are preparing the site for construction of the major works and include earthworks and drainage near the Nudgee Golf Course and north of Nundah Creek.

These early works will be completed by October 2015 (weather permitting).

The relocation of several Energex towers is also required to enable the widening of the motorway. Preparatory works are underway just north of the Nudgee interchange and will involve the construction of new poles and removal of existing towers.

About the project:

- ▶ the Gateway Upgrade North project is jointly funded by the Australian and Queensland Governments
- ▶ involves upgrading the Gateway Motorway to six lanes between Nudgee and Bracken Ridge
- ▶ will widen the Deagon Deviation to provide two lanes in each direction between Depot Road and Bracken Ridge Road
- ▶ includes the construction of a new, off-road shared pedestrian and cycle path between Nudgee and Bracken Ridge
- ▶ will enhance safety, ease congestion and improve freight movements on the national network
- ▶ installs Intelligent Transport Systems such as variable message signs, CCTV cameras and variable speed signs.



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Artist impression of Nudgee Road interchange (looking south)

Safety improvements

Following completion of the project motorists will benefit from significant safety improvements including:

- ▶ upgrades to interchanges with the lengthening of on and off-ramps
- ▶ installation of median and roadside barriers
- ▶ extra lanes and wider shoulders
- ▶ separation of local traffic using the Deagon Deviation from motorway traffic
- ▶ closure of northbound Sandgate Road on-ramp to eliminate weaving and avoid the impact of local traffic using the motorway for short local journeys
- ▶ improved motorway alignment by easing curves
- ▶ installation of Intelligent Transport Systems such as variable message signs, CCTV cameras and variable speed signs.

Changes to Deagon Deviation

To improve motorists' safety, a number of changes will be made to the Deagon Deviation.

- ▶ Two new northbound lanes will be constructed to separate Redcliffe bound traffic from the Gateway Motorway - this means motorists will travel along Sandgate Road and continue onto the new Deagon Deviation without needing to use the motorway.
- ▶ Through the interactive tender process, design improvements have led to the relocation of the northbound off-ramp to the Deagon Deviation – this means motorway traffic travelling north to Redcliffe will now exit left off the motorway just before the Depot Road off-ramp and travel over the Gateway Motorway on a new overpass to seamlessly join with the new northbound Deagon Deviation.

Constructing this new northbound Deagon Deviation connection greatly improves safety outcomes by eliminating weaving on the motorway, as well as increasing motorway capacity.

More detail about how these changes to the Deagon Deviation will affect your journey are provided on the maps overleaf.

Active transport connections

The Gateway Upgrade North project will significantly improve active transport infrastructure for pedestrians and cyclists. This includes construction of a new, off-road shared pedestrian and cycle path along the length of the project from Nudgee to Bracken Ridge, with connections to existing local bicycle and pedestrian networks.

The new pathway will be 3.5m wide and will connect the Kedron Brook Bikeway at Nudgee to the existing Gateway Motorway pedestrian/cyclist underpass at Bracken Ridge, making use of any existing shared paths adjacent to the Gateway Motorway.

The new pathway will provide safe and sustainable travel for pedestrians and cyclists on the north side of Brisbane.

Grade separated crossings will be provided:

- ▶ under Nudgee Road at Nudgee
- ▶ over the Gateway Motorway at Nudgee Road
- ▶ over Sandgate Road and the Shorncliffe rail line at Deagon
- ▶ under Bicentennial Road at Boondall
- ▶ under Deagon Deviation.

Five covered rest areas will also be provided along the new shared pathway. These facilities will include lighting, seating and drinking water for people and pets (at two locations), providing an opportunity for pathway users to take a rest and enjoy the natural surroundings.

Improvements to footpaths will also be made along:

- ▶ Nudgee Road
- ▶ Depot Road.

To improve traffic flow and pedestrian safety and access to the North Boondall train station, the Sandgate Road and Holroyd Street intersection will be signalised.



Sketch of rest area along shared pathway

What's next

Over the coming months, Lend Lease will commence detailed design and further preliminary investigative works. This stage progresses the design ready for construction to start in early 2016.

Activities expected to occur over the coming months include:

- ▶ geotechnical and pavement condition investigations
- ▶ surveying
- ▶ inspections of existing structures and condition surveys on existing roads
- ▶ detailed final construction planning and approvals
- ▶ set up of site office at Transport and Main Roads' Depot Road facility
- ▶ set up of other construction compounds
- ▶ preparation and early temporary works
- ▶ water, electricity and communications services survey and relocation.

Gateway Upgrade North project revised design



How the upgraded Deagon Deviation will work



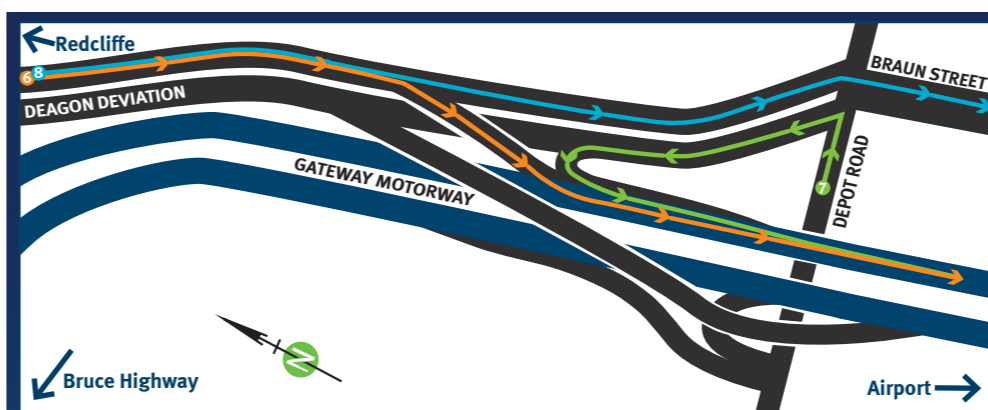
Travelling north to Redcliffe

- ➔ **Gateway Motorway to Redcliffe:** access the Deagon Deviation by exiting left off the motorway just before the Depot Road off-ramp and travel over the Gateway Motorway on an overpass to join with the new northbound Deagon Deviation
- ➔ **Sandgate Road to Redcliffe:** continue onto the Deagon Deviation via the upgraded Depot Road/Braun Street intersection to access Redcliffe without needing to use the motorway (instead of the current Sandgate Road northbound on-ramp, which will be closed)
- ➔ **Depot Road/Board Street to Redcliffe:** access the Deagon Deviation via the upgraded Depot Road/Braun Street intersection without needing to use the motorway (instead of the current Depot Road on-ramp)



Travelling north to Gateway Motorway/Bruce Highway

- ➔ **Sandgate Road to Gateway Motorway/Bruce Highway:** access via the Depot Road on-ramp (instead of the current Sandgate Road northbound on-ramp, which will be closed)
- ➔ **Depot Road to Gateway Motorway/Bruce Highway:** access via the existing Depot Road northbound on-ramp



Travelling south to Gateway Motorway and Depot/Sandgate Roads

- ➔ **Redcliffe to the Gateway Motorway:** access via the relocated on-ramp from the Deagon Deviation - this ramp has been moved further south to combine with the existing southbound on-ramp from Depot Road
- ➔ **Depot Road to Gateway Motorway:** access via the existing Depot Road southbound on-ramp
- ➔ **Redcliffe to Depot Road/Sandgate Road:** access via the upgraded Depot Road/Braun Street intersection



Environmental management

The project team is dedicated to positive environmental outcomes throughout the design and construction of the project.

Through innovative changes to the original Preferred Plan, the design now demonstrates a reduced footprint, particularly around the Deagon Wetlands and Deagon Racecourse. This has resulted in an overall reduction in the amount of vegetation clearing required.

Six fauna crossings have been included in the design at key locations along the project corridor to provide safe locations for animals to cross from one side of the motorway to the other. Fauna underpasses and overhead rope ladders will be provided, with overhead crossings designed specifically for squirrel gliders. Fauna fencing will also be installed to direct animals to the fauna crossing locations preventing them from accessing the motorway.

Noise barriers

Construction of new noise barriers and improvements to existing noise barriers will be undertaken where required. The final design will identify any sites requiring new or upgraded noise barriers. The project is required to comply with the road traffic noise criteria set by Transport and Main Roads. Further detail will be provided on noise barrier locations in the coming months.

Traffic management

All construction works will be scheduled to minimise traffic disruption to motorists and impacts on neighbours.

To minimise motorist delays, four lanes will be maintained on the motorway during daylight hours at reduced speeds of 80km/h to ensure motorists' safety. Any works expected to have an impact on traffic, such as single lane closures, will be conducted at night when traffic volumes are lower.

Advance notification will be provided to motorists prior to significant traffic changes via social media, email, 13 19 40, letterbox drops and the project website.

Sustainability

Sustainable outcomes including considering the motorway's neighbours, reducing waste and thinking long term will be a focus for the project during design and construction.

To achieve these outcomes, the project is aiming to meet the Infrastructure Sustainability Council of Australia (ISCA) rating of 'excellent' – the first major road project in Queensland to seek an ISCA rating.

To gain the excellent rating, the project has to prove its achievements in how it has been managed including how it uses construction materials, controls pollution, protects ecology, delivers community benefits and incorporates innovation.

Transurban Queensland and Transport and Main Roads will work with the project contractor to investigate the use of innovative methodologies and sustainable materials throughout the project's design and construction. This will ensure the benefits of the project will continue to be realised long after its completion.

Impacts to North Boondall train station carpark

Construction of the new northbound bridges over Sandgate Road and the Shorncliffe rail line, will require significant works in the vicinity of the North Boondall train station carpark. These works will have an impact on the number of parks available during construction.

The project team is working closely with TransLink to minimise the impacts to commuters. This will include the provision of a new off-street carpark to compensate for the majority of carparks affected during construction. This new carpark will be located closer to the train station and will increase the total number of available carparks on completion of construction. Early notification will be provided to train commuters prior to any carparking changes.

Project timeline



Contact details

The project team is committed to working with the community to better understand your views and ensure the successful delivery of the Gateway Upgrade North project.

You can contact the project team via:

@ contactus@gatewayupgradenorth.com.au

☎ 1800 607 755 (freecall)

🌐 www.gatewayupgradenorth.com.au

*Free call from anywhere in Australia, call charges apply for mobile phones and payphones. Check with your service provider for call costs.