

north-south corridor

Darlington Upgrade Project

Newsletter

March 2018



Project update

This year, a number of significant milestones have already been delivered with major activities continuing across the project site.

A traffic switch took place on Ayliffes Road in February to create a work zone in the centre of the road allowing the construction of the new Ayliffes Road bridge.

This involved switching traffic to newly constructed roads at the edge of the roadway. This arrangement will remain in place until early 2019.

Bridges

Concrete beams for the new Flinders Drive bridge were also installed in February. Signifying a huge milestone for the project, the 14 beams were installed over a weekend and provide the foundation of the new structure.

Each beam is 35 metres long and weighs 74 tonnes. The beams were produced locally in South Australia and are the first of 80 to be installed for the project.

A number of concrete pours have been undertaken following beam installation, to form the bridge deck.

In total, eight bridges are being constructed using two different methods: off-site fabrication and 'top down' construction.

Off-site fabrication is the method being used for the two new Main South Road bridges over the Southern Expressway and the northern section of the Ayliffes Road bridge. This method involves the bridge structure being fabricated off site and then transported into place.

Top down construction is the method being used for the Sturt River,

Flinders Drive, Sturt Road, Sutton/Mimosa, Ayliffes Road (southern section) and Tonsley Boulevard bridges. It involves the bridge piers, supporting deck, road pavement, railings and shared-use paths being built at the current road surface level. Once construction of the top-down structures are complete and traffic is moved onto the new bridges, the soil underneath the bridge structure is then excavated in preparation for construction of the lowered motorway.

Traffic is maintained at all times during construction by adjusting the alignment of traffic and paths around the main construction zone.

Animations showing both construction methods can be found on the project website at: <https://www.infrastructure.sa.gov.au/darlington>



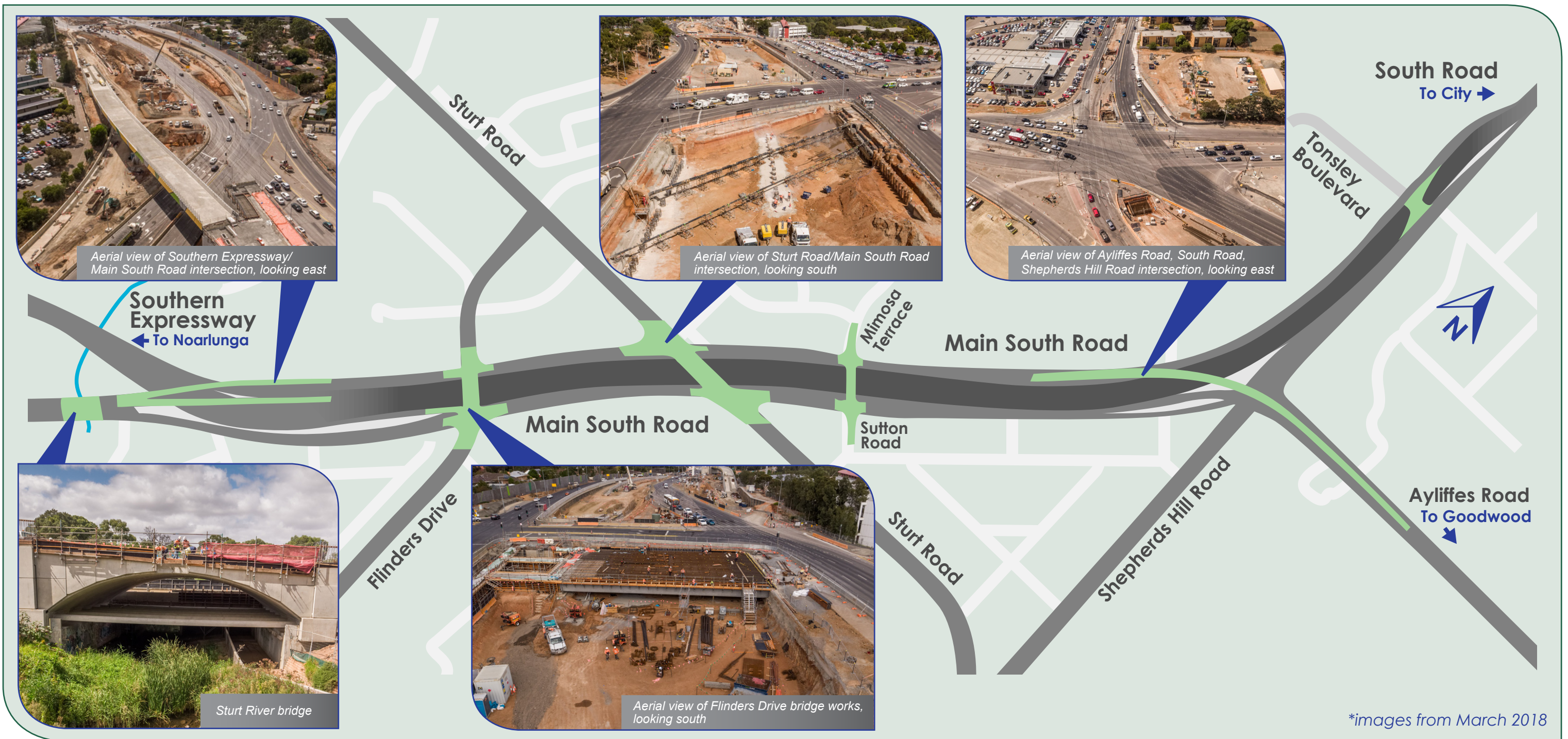
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Milestones

1st quarter of 2018

- **Ayliffes Road traffic switch** ✓
- **Installation of concrete beams** for the Flinders Drive bridge ✓
- **Concrete pours** for Flinders Drive bridge deck ✓
- **Excavation** for bridge enabling works ✓

2nd quarter of 2018

- **Installation of concrete beams** for the Sturt Road bridge
- **Excavation works**
- **Main South Road bridge** over the Southern Expressway to surface roads open to traffic
- **Installation of Main South Road bridge** over the Southern Expressway to the lowered motorway
- **South Road Traffic switch** (between Ayliffes Road and Tonsley Boulevard)
- **Traffic switch** between Southern Expressway and Flinders Drive

3rd quarter of 2018

- **Flinders Drive Extension** (new road between Sturt Road and Flinders Drive) open to traffic
- **Excavation works**
- **Birch Crescent/Sturt Road signalised intersection** completed and operational
- **Installation of Ayliffes Road bridge**
- **Traffic switch** between Southern Expressway and Flinders Drive
- **Completion of Flinders Drive bridge**

4th quarter of 2018

- **Installation of concrete beams** for the Tonsley Boulevard bridge
- **Excavation works**
- **Completion of Sturt Road bridge**
- **Completion of Sutton Road/Mimosa Drive bridge**

The “Big dig”

A massive 860,000 m³ of soil will be excavated from the centre of Main South Road and South Road to create the lowered motorway for the project.

This equates to approximately 50,000 truckloads and is enough to fill 344 Olympic size swimming pools!

If you have driven through the site in the past couple of months you would have noticed that excavation has begun for bridges at Flinders Drive, Sturt Road and Mimosa Terrace/Sutton Road and the lowered motorway.

Excavation will reach a depth of eight metres, which requires works to be done in several stages so the sides of the lowered motorway can be stabilised. It is expected to be completed in 2019.



In the community

Keep an eye out when walking through Warraparinga; the nesting boxes featured in the last newsletter have now been installed.



Traffic switches

In order to create a safe and clear construction zone and maintain traffic flow through the busy project site, a number of traffic switches are required.

Several of these switches have already occurred, with traffic on Main South Road and Ayliffes Road shifted to the edge of the roadway to create a work zone in the centre of the corridor to facilitate bridge works and lowered motorway excavation.

In the second half of this year, traffic switches will take place on South Road between Ayliffes Road and Tonsley Boulevard and on Main South Road between Flinders Drive and the Southern Expressway.

We will provide you with further information closer to the time of the switches.

Happy Easter!

The project team would like to wish you and your families a very happy and safe Easter! If you are heading away please drive safely and have a great time.

We would also like to take this opportunity to thank you for your patience and cooperation throughout construction works and we look forward to continuing to work with you as the year progresses.

Our offices and site will be closed down over the break, re-opening on the morning of Tuesday 3 April.



For more information

Call: 1300 759 334

Email: enquiries@gatewaysouth.com.au

Visit: infrastructure.sa.gov.au/darlington

Drop In: Project site office:

Corner of Laffer Drive and Sturt Road, Bedford Park

The project also supports equitable access to information. Translation of project information will be provided on request.



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