

# Bridges

December 2019

## Bruce Highway Upgrade – Cooroy to Curra Section D: Woondum to Curra

The Bruce Highway Upgrade – Cooroy to Curra project involves a 62km upgrade and realignment of the Bruce Highway. Section D: Woondum to Curra (C2CD) is the final section to be constructed and will provide a new 26km upgrade and realignment of the highway between Woondum and Curra. Adding interchange works and tie-ins to existing roads, this means 30 kilometres of new highway will be constructed for C2CD.



*Traveston Creek Bridge on Section C: Traveston to Woondum showing revegetated creek banks*

C2CD includes 42 new bridges at 23 locations over waterways, local roads and the North Coast Rail Line. The bridges have been uniquely designed to suit conditions at each location.

All C2CD bridges are designed to withstand a 1-in-100 year flood (1% chance of occurring within any year) and meet environmental requirements and technical standards for safety and design.

### Working in and around waterways

The project includes the construction of bridges over ten existing waterways and will involve work in and around existing creeks.

Transport and Main Roads (TMR) has worked with the federal Department of Environment and Energy, the state Department of Environment and Science and Department of Natural Resources, Mines and Energy as well as the Mary River Catchment Co-ordinating Committee, to inform the design and development of environmental controls for the project.

### Creek bank rehabilitation

Rehabilitation and revegetation of creek banks will include noxious weed removal and planting native species. Maintenance and monitoring will be undertaken to ensure revegetation work is successful, and dominant weeds are controlled.



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# Bridge fast facts



**42** bridges at **23** locations



**228** concrete columns



**575** concrete bored piles



**731** concrete girders



**49,729** tonnes of concrete girders  
(these include steel reinforcement)



**3,816** meters total length of bridges



**9,964** tonnes of steel reinforcement  
(in addition to the concrete girders)



**54,637 m<sup>3</sup>** of concrete  
(in addition to the concrete girders)

## Creek diversions

Creek diversions on Tannery, Tamaree and Banks creeks will reduce the length of the bridges and where possible:

- maintain the length of creek channels as much as possible to the existing lengths
- replicate natural features such as pool depths, to provide fish habitat during dry spells
- revegetate creek banks and flood paths with local native species
- maintain a low water velocity in creek channels by simulating the natural watercourse/creek conditions to provide for fish passage
- enhance waterway habitat with the provision of shelter and habitat structures, such as logs.

## Wildlife

Animal spotter/catchers will be engaged to monitor clearing and construction works. Where required, the spotter/catchers will relocate amphibious and aquatic species to suitable habitats.

## Water quality

Water quality management in projects is a necessary environmental responsibility. It is integrated into planning, design, construction and maintenance of the road network.

At Six Mile and Deep creeks, the bridges are more than 250 metres long with columns situated on the banks, rather than in the creek beds, to reduce earthworks and impacts to the waterways.

Erosion, sediment and drainage controls will be used to protect waterways from sediment pollution during bridge construction.

## Flooding

In major flood events the existing Bruce Highway experiences closures within, north and south of Gympie. The new C2CD alignment and bridges are designed to withstand a 1-in-100-year flood event and will significantly improve highway flood immunity.

## Contact details

**Phone:** 1800 180 566\* (this number is directed to a project officer in Gympie)

\*Free call anywhere in Australia, call charges apply for calls from mobile phones and pay phones.

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