

Brighton Bypass Bridges Northern Section JV



Client: DIER
Value: \$103M
Completed: 2012

THE \$191 MILLION BRIGHTON BYPASS IS THE LARGEST ROAD PROJECT IN TASMANIA'S HISTORY. IT WAS DIVIDED INTO TWO SECTIONS, TO BE DELIVERED BY TWO SEPARATE JOINT VENTURES FOR THE TASMANIAN GOVERNMENT. HAVING BUILT MANY BRIDGES AND WITH SIGNIFICANT CIVIL CONSTRUCTION EXPERIENCE, VEC WAS AWARDED THE NORTHERN SECTION IN JOINT VENTURE WITH THIESS.

THE PROJECT

Midland Highway is a major transport link for Tasmania, and the Brighton Bypass aims to provide safe, high-speed travel for passenger and freight vehicles. Works involve:

- 6.5 kilometre dual carriageway;
- ten major structures;
- 450,000 cubic metres of bulk earthworks;
- 10,000 cubic metres of concrete;
- 3,000 tonnes of reinforcing steel used in the construction of structures;
- 1,000 tonnes of structural steel;
- 170 super T beams;
- a roundabout connection to the Midland Highway and interchange at Tea Tree Road;
- two road overpasses/two rail underpasses; and
- 166 metre bridge across the Jordan River.

JORDAN RIVER BRIDGES

Two bridges, one northbound and one southbound, each with 4 spans comprising 3 32m long Super T Beams and a 70m long launched steel box girder.

WILLIAM STREET BRIDGES

Two bridges, one northbound and one southbound, 26m long single span Super T Beam bridges with abutments supported by steel piles and reinforced earth retaining walls.

BRIGGS ROAD BRIDGE

A 60m long, 3 span dual lane bridge over the highway with solid concrete blade piers.

TEA TREE RAIL BRIDGE

Abutments for this 20m bridge are supported by steel piles and reinforced earth retaining walls. The super structure consists of 750mm deep plans with a concrete deck overlay.

TEA TREE ROAD BRIDGE

Tea Tree Road Bridge is a 50m long dual lane structure over the highway. It has a 2 span Super T Beam blade pier.

STRATHALLAN BRIDGES

Two bridges, one northbound and one southbound, each with three 25m spans of Super T Beams. Piers are cast-in-place columns with precast crossheads.

RIFLE RANGE BRIDGE

This bridge is an 80m structure made of 3 spans of Super T Beams. Piers are cast-in-place columns with precast crossheads.

PRECAST YARD

More than 150 Super T Beams were manufactured in VEC's onsite Precast Yard and transported to location.



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