

NAGAMBIE BYPASS

CONSTRUCTION COMPANY : Abigroup Contractors
 CLIENT : VicRoads
 COMPLETION : April 2012
 LENGTH : 17 km
 PROJECT END VALUE : \$189 Million



CONSTRUCTING AUSTRALIA'S FUTURE

Abigroup, established in 1961, specialises in core areas of infrastructure for a range of diverse industries, including roads, building, rail, mining services, bridges, water, telecommunications and energy.

To date, Abigroup have successfully delivered some of the country's largest and most important infrastructure and construction projects and are one of Australia's most diverse contractors.

Abigroup owns and operates one of the largest plant and equipment fleets in the southern hemisphere. They also operate their own concrete precast yards and has its own in-house construction expertise – all of which provide them with unbeatable control over a project's critical path.

With a reputation for implementing exhaustive quality control programs, as well as their dedication to delivering major projects, such as the second Gateway Bridge in Brisbane, the Peninsula Link project in Victoria, a major part of the Hunter Expressway and the Queensland Children's Hospital, Abigroup is also involved on the significant Nagambie Bypass Project.

The Nagambie Bypass is the next stage in the upgrade of the Goulburn Valley Highway, a vital transport route connecting the rich fruit and

vegetable growing industries in the Goulburn Valley of northern Victoria with Melbourne.

The Federal and Victorian State Governments are jointly funding the \$189 million project to extend the four-lane freeway route with a 17km bypass to the east of Nagambie.

Abigroup was awarded the contract by VicRoads in 2010 to construct the main section of freeway which incorporates six bridge structures, two crossing the railway and two full diamond interchanges, at each end of the Bypass.

The new Bypass will reduce travel times, improve traffic flow and reduce through traffic in the town of Nagambie, thereby improving safety and local amenity for the community.

Over 1000 Abigroup and subcontractor employees will have worked on the design and construction of the road and bridgeworks when it is opened.

Working closely with VicRoads, Abigroup has implemented a range of 'hands-on' engineering and systems innovations to meet the

specific needs of this piece of infrastructure that will add to the success of this project for all stakeholders.

One such example is the tailor-made Off Structure Barrier connection detail, which has significantly improved the constructability of the system and safety during installation.

The project has experienced some exceptionally inclement weather with in excess of 200 days lost, making a consistent and scheduled construction process a challenge. With the application of Abigroup's self perform resources and through close liaisons with its subcontractors and suppliers, the company has been able to keep the project on schedule.

The Nagambie Bypass Project has also received outstanding support from the local community. Open communications between Abigroup and the local people has instilled a strong sense of community ownership and participation.

Supported by their extensive plant fleet, expertise and 'on-the-ground' technical skills and experience, Abigroup continues to achieve outstanding results within Australia's infrastructure sector.

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Turning Knowledge Into Value



Project: Nagambie Bypass

NAGAMBIE BYPASS - FACT SHEET

FEATURES

The project scope includes:

- a freeway-standard bypass to the east of the Nagambie township
- duplication of the existing Goulburn Valley Highway between Kirwans Bridge-Longwood Road and Moss Road, including new local access roads
- full diamond interchanges at Mitchellstown Road and Kirwans Bridge-Longwood Road with bridges over the freeway and ramps giving full access in all directions
- an overpass taking Nagambie-Locksley Road across the freeway
- an underpass taking Racecourse Road beneath the freeway
- upgrading sections of Racecourse Road, McDonalds Road and Nagambie-Locksley Road

BENEFITS

When completed the Bypass will:

- improve freight movements from the Goulburn Valley to domestic and export markets with reduced travel times and transport costs
- provide easier and safer access for residents and visitors to the Nagambie township
- provide safer road conditions with less traffic conflict between local

road users, trucks and other through traffic

- improve amenity within the town centre due to less traffic noise and truck fumes.

CURRENT PROGRESS & TRAFFIC IMPACTS

The Goulburn Valley Highway duplication is now open with a 110 km/h rural freeway speed limit from north of Kirwans Bridge/Longwood Road.

Works on the freeway bypass are progressing well and subject to weather conditions the project remains on track for completion in mid 2012. Current works include:

- beams placed for all six bridges
- works on the bridge decks, including road surfacing and barriers
- earthworks are 95% complete with nearly two million cubic metres of earth moved to date
- upgrading of the Racecourse Road/Goulburn Valley Highway intersection
- improvements to Nagambie-Locksley Road between McDonalds Road and the Highway are due for completion in early 2012, with signed detours now in place

CPG were proud to partner with Abigroup in delivering a number of consultancy services for the Goulburn Valley Highway, Nagambie Bypass project for VicRoads. CPG, a division of Downer Australia, is a multi disciplinary consulting business offering professional engineering, surveying, planning, urban design, landscape architecture, transport, environmental and project management services across various market sectors.

Our services range from scoping and feasibility studies to the design, implementation and management of award winning projects. Our teams bring a critical depth of knowledge, experience and energy to delivering CPG's commitment of turning knowledge into value for our clients. CPG's integrated approach to service delivery enables our teams to deliver optimal, sustainable solutions for public and private sector projects of any size and scope.

CPG has been involved in all phases of this exciting project with the bulk of works provided from our Melbourne and Shepparton offices. Key services provided included

› Surveying

- Cadastral surveys at commencement of bypass project to enable preparation of VicRoads Plans and Plans of Subdivision under Section 35 of the Subdivision Act to facilitate acquisition of the land required for the bypass.
- Feature surveys of the bypass land to facilitate design and construction of roads, culverts and bridges. Feature survey along Ballantynes Road to facilitate water main and sewer rising main design.

› Planning

- Localised Extraction pits for fill material were identified through the course of the project, CPG provided the development of DPI Work Authority applications, Work Plans and Council planning permit applications and approvals.

› Engineering

- As an accredited consultant with the local water corporation, CPG provided design, certification and construction auditing for upgrading of the sewer rising main and water supply mains crossing the prepared highway at Ballantynes Road.

› Traffic

- Various consultancy services including Construction Traffic Management Plans, Temporary road designs for traffic around the works at each end of the project.
- Signage and linemarking designs along the Nagambie Bypass as well as the interchanges and local roads in accordance with VicRoads standards.
- Signface designs for all large destination signs.
- Street lighting at the Mitchellstown interchange including poles, luminaires and electrical design.

CPG continue our commitment to social and environmental sustainability, and to achieving zero harm for our staff, clients and the environment.

For more information about CPG and our consulting services please visit our website www.cpg-global.com

CPG

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