Motorway Upgrade Project - cyclists, public transport users and even maintenance, so a key aspect of the works involved workers laying

Pacific CBR, a joint venture between Bielby Holdings, J F Hull Holdings

# PACIFIC MOTORWAY UPGRADE

### GETTING A BETTER MOTORWAY MOVING

MAIN CONSTRUCTION COMPANY : Bielby Hull Albem Joint Venture **CLIENT : Department of Transport and Main Roads PROJECT END VALUE : \$422 Milion** COMPLETION : End 2011









### THE GO TO GUYS FOR ASPHALT

he only people who haven't travelled over roads worked on by Boral Asphalt have probably never left home. With more than 60 years in business working on civil projects, Boral have enormous experience in working collaboratively with civil contracting clients such as Beilby Hull Albem JV and agencies like QTMR to deliver on were placed to shift traffic over the new bridge and feed Loganlea Road, technically difficult and large scale major projects such as the Pacific Motorway Upgrade project.

Boral is supplying and laying all the asphalt, and supplying and spraying all the bitumen for the 3.85 km of new road between Springwood and Daisy Hill. In total, they expect to supply and lay approximately 155,000 tonnes of asphalt. In the first stages of the project, Boral supplied and depots include Whinstanes, West Burleigh, Narangba and Toowoomba, sprayed 143,000 litres of bitumen, with a further 356,000 litres yet to be supplied and sprayed. To date, 63,000 tonnes of asphalt have been laid, with a remaining quantity of 92,000 tonnes of various mix types due to Boral Asphalt holds Quality certification to ISO9001, Safety to AS4801 be supplied before the final completion of the project.

Boral has had an 11 man asphalt crew based on the job site since March 2010, mostly at night, with a second crew called on when needed. Plant being used on the project includes Roadtec RP150, RP170 & RP190 Pavers, Roadtec SB1500 Shuttle Buggy, Various Steel & Multi Tyred Rollers, Izuzu Job trucks and Water Carts.

"The main challenge with this project is maintaining the existing volume of traffic whilst constructing the infrastructure, and the limited hours of work due to this, especially when working on the main alignment at night because the hours available are 9pm to 4am," said Boral's Paul Davidson, Contracting Operations Manager - Asphalt (South Qld).





### ENGINEERED EXCELLENCE IN **CONCRETE APPLICATIONS**



ust as the scale of Australia's transport infrastructure has grown, so has Rocla Pty Ltd. The company which started life as two men in a shed in 1922 is now a nation-wide leader in the supply of innovative engineered solutions for stormwater piping, pits, headwalls and Box Culverts, sewerage piping and access systems, irrigation, stormwater detention and treatment, rainwater harvesting, water storage, bridging and earth retention, as well as concrete poles, building columns, boardwalks and railway sleepers.

For the Pacific Motorway Upgrade project, Rocla has since June 2010 been supplying stormwater drainage products on an ongoing basis, including steel reinforced concrete pipe, concrete jacking pipe, circular punch out stormwater pits, small and large box culverts, and precast headwalls. The products have been designed to the relevant Australian Standard and therefore meet the project specifications as requested by Queensland Department Transport and Main Roads, manufactured in Brisbane and supplied to the work sites as required by the Alliance. Meeting these project lead times was a challenge resolved by the depth of management, engineering and manufacturing expertise Rocla brought to the job.

Rocla supply a wide variety of products for large infrastructure projects, with multiple manufacturing and sales facilities in major metropolitan and regional centres across Australia, giving the company extensive distribution capabilities and a customer service network in both urban and regional locations.

CALL STREET, ST

Advanced engineering capabilities in the field of concrete applications are the cornerstone of Rocla's success, with a commitment to continuous innovation and product improvement putting them at the forefront of the industry. With a comprehensive testing and quality assurance program, Rocla ensure their clients are supplied with durable, high quality solutions which meet the relevant Australian standards which are required to supply to Main Roads Departments' and Queensland Rail projects.

Rocla are also supplying a broad excellent range of products for civil projects to several other major Queensland transport route upgrades, including the Mount Lindsay Highway, Houghton Highway and Ipswich Motorway.

**ROCLA Pty Ltd** t. 13 10 04 www.rocla.com.au

"To facilitate a switch to the new bridge over one weekend, a proposal was accepted to lay a 12,000 tonne rock bed and for us to pave over this to form the permanent pavement. From Friday night 8th July to Sunday night 10th July 2011, 12,000 tonnes of rock and 2,000 tonnes of asphalt Winnetts Road and Western Service Road."

Boral Asphalt has developed a long successful and ongoing association with Bielby Holdings and QTMR. The company has asphalt and spray seal depots strategically located throughout Qld including regional centres, to provide coverage to the vast majority of the state. SEQ and in total the SEQ operation has over 500 staff.

through Federal Safety Office, operates their own NATA registered laboratories, and is a member of industry bodies including AAPA. Other current and recent major projects include Gateway Upgrade Project (South), Northern Access Road, SAFElink Alliance, Logan Ipswich Interchange and Banora Point Bypass.

BORAL ASPHALT Whinstanes Head office; Cullen Avenue West Whinstanes, Qld, 4007 t. 07 3268 8011 General Manager: Rob McGuire





### SAFELY GREENING THE MOTORWAY

EHS LANDSCAPING Pty Ltd 790 Wembley Road Browns Plains QLD 4118 t. 07 3800 2228 f. 07 3800 5640 e. info@ehslandscaping.com.au

### TOP STEEL FABRICATION SKILLS ON LOCAL JOB

F or over half a century, Livingstone Engineering has been manufacturing the highest quality steel products for civil projects. For the Pacific Motorway Upgrade project, the company supplied the foundation cages for the light poles, manufactured to Main Roads Standard – MRS 11.78. Everything Livingstone produce is quality assured to ISO 9001 -2008, third party accredited by SAI Global.

Fabricating foundation cages is core business for the company, with the latest fabrication technology used to achieve the best results rapidly. The fabrication capabilities include thread cutting capacity to 64 mm, High Tensile 8.8 grade and Mild Steel 4.6 grade; also thread rolling. In addition to the Salisbury workshop they have the Wacol facility which is a major fabrication arm for many other types of Main Roads infrastructure works.

"We find it satisfying to be a local supplier on a local job," said Livingstone Engineering spokesman, Geoff Buckley. "We have an understanding of how critical communication and delivery is. We have almost 50 staff concentrating on local projects, as well as interstate and time sensitive export projects to oil and gas projects."

Repeat business has built the company's solid reputation, with regular major clients such as Seymoure Whyte, Abi Group, John Holland, Thiess, Leighton and Bechtel. Other recent major projects have included Origin Alliance, Airport Link and the Clem7 Tunnel.

Livingstone provides an extremely broad array of products in high tensile steel, stainless steel and mild steel, including structural steel work, light fabrication work, cast-in items, Energex standard cages, customised foundation cages, Brisbane City Council standard cages, RTA standard cages and Main Roads standard cages.

Construction fasteners are a specialty, with products including holding down bolts, U-bolts, single ended studs, double ended studs, hexagonal head bolts, commercial mild steel bolts, nuts & washers; high strength structural bolts, nuts & washers; masonry anchors; stainless bolts, nuts & washers; cogged bolts, collar bolts, ferrules, eye bolts and cast-in sockets. The structural and architectural products produced include bridge rails, bridge posts, hand rail, angles, brackets, base plates, steel sections, FMS, RHS, PFC, pipe, round bar, angle, UB, UC, threaded rod and plate.

The company also provides services including repetitive parts manufacture, cutting, drilling, miscellaneous metal work, stainless steel work, tapping, welding and site work. A full range of metal finishes are available: black, galvanised, paint, powder coat and zinc.

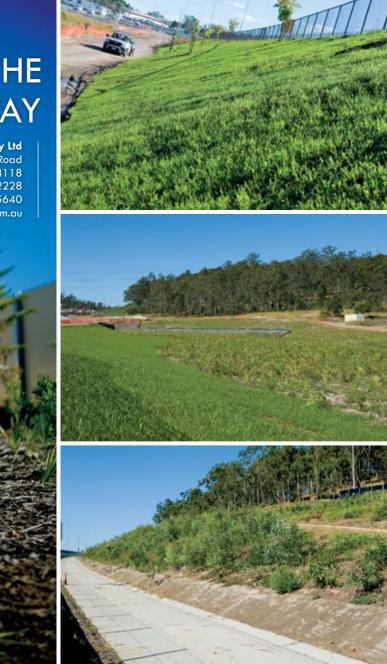
### LIVINGSTONE ENGINEERING

Geoff Buckley – Business Development Manager Fabrication t. 07 3277 5499 e. info@liveng.com.au www.liveng.com.au where two decades of experience in protecting and enhancing the sites of Queensland civil construction projects, EHS Landscaping has the skills, equipment and manpower to deliver excellent long-term results for the Pacific Motorway Upgrade project.

EHS is engaged to undertake all the landscaping requirements for the project, including the Supply and Spreading of 28,000m<sup>3</sup> of Topsoil, 6,500m<sup>3</sup> of Mulch, 30,000m<sup>2</sup> of Jute Matting, and supply and planting of 350,000 plants ranging from 45L trees to tubestock. EHS are also carrying out approximately 90,000m<sup>2</sup> of hydromulching, a method of water-saving revegetation for large areas, which provides simultaneous erosion control.

Their work is being undertaken in ongoing stages over the twelve months of the construction period, combining work on newly disturbed areas and constructed earthworks with ongoing maintenance of previously mulched and revegetated areas. EHS has supplied their own earthmoving equipment including bobcats, excavators and water trucks.

Crews of between ten and twenty staff will be carrying out the works, working around the challenges of heavy traffic and limited access to some work areas. Smooth co-ordination with other contractors is needed to manage both safety and program requirements, as EHS work in conjunction with Bielby Holdings to help protect the works and meet the requirements set by the EPA and other governing bodies.



"We have been extremely happy to be working in conjunction with Bielby Holdings and Hull Albern to help them achieve the required results on this project," said EHS Spokesperson, Helen Hay.

"We have the capacity to carry out a project of this size, which is spread over a twelve month period, while still being able to satisfy the needs and requirements of our other clients. We are committed to helping our clients achieve the best possible outcome on each and every project, and establish great working relationships with them."

"EHS acknowledge that Occupational Health and Safety is a large requirement on each and every project. As we have worked for so many of the major Civil Contractors, we adapt our OH&S policies and procedures to meet their individual requirements. Due to our commitment, we have never had a serious incident involving any of our employees or subcontractors."

EHS are Members of QALI, and purchase all their plant stock from accredited and reputable nurseries in South East Queensland, and all landscaping materials from many locally owned businesses.

For the next twelve months, EHS will also be working on the Origin Alliance Joint Venture – D2G (Dinmore to Goodna) Project, again ensuring the landscape around a major project is left in better condition than it was initially, with weeds controlled, native species replanted and soil erosion prevented.



## **BEYOND THE CALL AND AROUND** THE CLOCK

Manns Logan Crane Hire provided an extraordinary level of service and commitment to the Pacific Motorway Upgrade. Not only did they supply cranes and operators, riggers, transport and other equipment, they also made available to the Alliance a large section of their Kingston depot for use as a storage facility for their road barriers (PCB'S) and associated equipment.

Fast response was required, and close coordination with the Alliance (BHA) for the supply of mobile cranes, equipment and labour within the hours they were able to close off sections of the motorway. Manns Logan supplied Frannas, a rigging crew and supervisor for the task of installing and removing Road Barriers (PCB's) on both day and night shifts, and mobile compressor and rattle guns supplied for bolting PCB's together.

"Almost all of the lane changes had to be done after hours when traffic flow was reduced to a minimum for the safety of both the workers and the public. Some weeks we had multiple cranes working throughout the nights. Then a second shift would start the following morning," said Manns Logan General Manager, Trevor Rohweder.

"One challenge was making sure our staff were given adequate rest periods between shifts. Pre start Toolbox meetings were held to inform all workers of risks involved in that night's shift, and Strict Traffic management controls were also put into place by the Alliance (BHA)."





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Manns Logan also supplied a body truck for transport of anti gawk screens. All cranes and transport were provided as wet hires with experienced operators.

construction projects, Manns Logan can supply a complete range of lifting solutions, with cranes ranging from 7 Tonnes up to 160 Tonnes. They offer wet and dry hires for both short term needs and for the long haul to both urban and country areas of South East Queensland.

> "We supply cranes and equipment to many customers with different needs, including builders, developers, manufacturers, local government bodies and councils and individuals with one off jobs." said Trevor Rohweder.

"The success of our involvement with the Alliance precise communication between all parties, and understanding the needs and efficiency required to execute PCB movement for lane changes and barriers, while protecting all the workers very busy highway."

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