

SEEING DOUBLE AT LISAROW

DEVELOPER : Transport for NSW
PRINCIPAL CONTRACTOR : Daracon
CONSTRUCTION VALUE : \$178 million



The NSW Government is investing \$178 million to upgrade the Pacific Highway between Ourimbah Street and Parsons Road at Lisarow to improve traffic flow, travel times and safety for the 30,000 motorists who use this 1.6km section of the Pacific Highway each day. A key feature of the upgrade will be a new rail bridge across the main Sydney to Newcastle rail line, replacing the existing narrow bridge and delivering two lanes of traffic in each direction.

Daracon were appointed by Transport for NSW as the principal contractor for the construction of a significant upgrade 1.6km section of the Pacific Highway between Ourimbah Street and Parsons Road at Lisarow.

The project is complex with a tight programme and a challenging site with sloping terrain, with works taking place within the existing Pacific Highway road corridor and the main railway line linking Sydney and Newcastle.

Along with the new rail bridge which will provide two lanes of traffic in each direction the project will also deliver new traffic lights at the Railway Crescent and Tuggerah Street intersections, upgrades to The Ridgeway intersection, improved pedestrian and cycle paths along and

across the highway and improved access to the parking area at Lisarow Railway Station.

Several new retaining walls are required as part of the project including one in front of Lisarow Cemetery which is more than 6m high and 100m long. Sandstone feature facing panels will be incorporated to acknowledge the heritage of the site and the original cemetery gates will also be reinstated along with new sandstone block feature work.

Works are well underway with considerable progress over the past 16 months and overall completion on track for late 2023. The first stretch including the first half of the new overbridge across the main northern railway line is already complete and opened for traffic in October 2021.

The first half of the new bridge is supported by 27 concrete girders manufactured in Newcastle, which are 35m long and weigh between 65 and 70 tonnes each. The bridge itself contains 150 tonnes of steel, while 430m³ of concrete has been used for the bridge deck.

To date almost 90% of utility relocation work has been completed including water, sewer, gas, NBN, Telstra, Nextgen and electrical services, as well as the relocation and commissioning of 380m of trunk water main. Ongoing works include completion of remaining utilities and service relocations, construction of bridge piers and abutments for the second half of the new rail bridge, construction of retaining walls and preparation works for the widening of existing sections of The Ridgeway and the Pacific Highway.

Earthworks, installation of stormwater drainage, concreting of shared pedestrian paths and landscaping, are also underway.

As the project traverses the main northern railway line, a number of temporary possessions of the rail track have been required to allow construction of the new bridge and removal of the existing bridge.

A key focus of the project team during the works is to minimise impact on the surrounding community as well as users of the existing road. Impacted residents and businesses have been regularly notified of upcoming works and impacts on existing traffic flows have been minimised through regular out-of-hours work, temporary traffic changes and diversions.

Daracon's experienced project team worked closely with all specialist subcontractors to achieve on-time completion of the works to date despite inclement weather and other challenges. A close collaborative working relationship was maintained across between Transport for NSW, Daracon and their Subcontractors, which is reflected in the positive attitude of all parties towards ensuring a successful outcome.

The project has provided a welcome boost to the local economy, with work for about 1,400 people created to date including work for more than 150 different suppliers and contractors.

For more information contact Daracon, 20 Kullara Close, Beresfield NSW 2322, phone 02 4974 9200, website www.daracon.com.au



ALL HANDS ON DECK

Damcon are a specialist provider of formwork, reinforcement and concrete placement (FRP) for Tier 1 and Tier 2 contractors on building and infrastructure projects around New South Wales. With 25 years of industry experience, Damcon offers an experienced team and an extensive range of services from early stage tender through to project delivery.

Damcon was appointed by main contractor Daracon Group to the Pacific Highway Upgrade, a complex project involving the widening of the Pacific Highway to a 4-lane road through a built-up area. The project will deliver improved traffic flow and reduced travel time for the 30,000 motorists who use the road daily.

Damcon were awarded the FRP concrete package for a new four-lane bridge over the main Northern Rail Line to replace the previous narrow bridge.

Damcon's scope of work on the project included abutments, blade and curtain walls, piers, headstocks, bearings, cross girders, deck slabs, traffic barriers, footpaths and kerbs and approach slabs. All concrete was required to comply with the Roads and Maritime Services (RMS) QA specification B80.

The project provided an excellent opportunity for Damcon to show the team's high caliber of management. "The programme had critical major milestones," said Daniel Damjanovic, Managing Director. "On gaining possession of an area we had to work through a lot of inclement weather to get it done on time."

The weather was a particular challenge with rain and thunderstorms however the works

were completed safely with zero incidents despite the extreme conditions.

Damcon recently received a commendation from Daracon and RMS for successfully completing the Span 1 and 2 deck pour which involved placement of 500m³ of concrete.

"I'm very proud of our achievements on this project," said Daniel. "It shows our commitment and experience but also the good atmosphere onsite with everyone working together to get the best outcome."

This commitment to achieving the best quality through teamwork is an integral part of Daniel's management philosophy and reflects the holistic approach taken of Damcon.

Daniel brings a wealth of experience to the Damcon team, with a management style that is inclusive and hands-on. Believing strong communication is the foundation for success, Daniel works closely with estimators and attends site regularly to ensure the team is meeting the required outcomes to get the best results, regardless of a projects complexity.

Damcon values their employees and has a strong training focus, empowering them to succeed, and to ensure the company have the right people and the right skillsets onhand to get the job done to the highest quality.

In addition to road and bridge works Damcon is experienced in infrastructure, rail, civil, education, industrial and commercial projects. They have a team of highly skilled carpenters, steelfixers and concreters giving them the ability to achieve quality and precision on all aspects of concrete while complying with applicable regulations and project requirements.

Damcon is able to undertake a range of projects with varying scopes of works, including Government and Transport Access Projects (TAP).

Over time Damcon has continued to develop its reputation and is now recognised as an Australian industry leader in FRP. Their depth of knowledge, dedication and expertise ensures their clients receive the highest standards in quality whatever the challenge.

For more information contact Damcon, phone (Daniel) 0408 547 993, email info@damcon.com.au, website www.damcon.com.au





INTELLIGENT TRANSPORT SYSTEMS

Since being established four years ago, Complete I.T.S Group has held NSW Transport for NSW (TfNSW) TS F2 prequalification covering Transport for NSW projects and takes on all aspects of ITS works.

Our core business is traffic signals with the ITS underground and equipment such as on this project, VMS construction, CCTV installation, accredited enforcement installation, SCATS vehicle detection, backbone fibre and power, TfNSW streetlighting and any other ITS in New South Wales

With an inhouse team of nine civil crew and four electrical crew, Complete I.T.S Group can deliver projects of any size and complexity. They offer an end-to-end service with the ability to input into the design stage of civil works and provide post completion maintenance and auditing of traffic signals, and all types of ITS equipment.

Complete I.T.S Group also benefits from the third party accredited integrated WHS, Environmental and Quality Systems held by CIVX. Their experienced team of TfNSW licenced traffic controllers are used to engaging and collaborating with clients to work through challenges and deliver jobs on time and on budget.

Main contractor, Daracon appointed Complete I.T.S Group to deliver traffic signalling and associated works to the Pacific Highway upgrade between Ourimbah Street and Parsons Road at Lisarow,

New South Wales. The project will create a dual carriageway stretch of the Pacific Highway with new and upgraded existing traffic signals at key intersections to improve traffic flow, travel times and safety.

For the project Complete I.T.S Group provided two new sets of traffic signals and one reconstructed set, in addition to altering the existing signals for several interim stages of road operation during the construction works.

Complete I.T.S Group also provided other elements including CCTV surveillance cameras mounted to traffic signals and standalone poles as well as gantry mounted electronic signage and vehicle counting systems.

"This was a large and complex project with a long three year programme," said Wayne. "It is a very narrow site with a rock face on one side and the railway on the other which made access very difficult. As a project, we had to be careful to manage our interface with all the other trades which took a lot of careful planning with Daracon."

"We have worked with Daracon before on the recent Newcastle Light Rail project which was our first big prequalification package so they have really supported us before and it was great to work with them again," Wayne continued. "They had a really well organised and switched on team and we got on really well with them."

The project was also affected by inclement weather requiring some reorganising of

the project programme to stay on track. "Whenever there were changes to the programme Daracon would communicate with us to work out when we would be needed back onsite," explained Wayne.

Over the course of the works Complete I.T.S Group have grown to become one of the leading signalling contractors in New South Wales. A major contributor to this growth has been their strong reputation for quality with management paying close attention to ensure the success of all their projects.

"We are the best at what we do," Wayne said. "That's because we manage our guys differently and we look after them. Our engineers, project managers and construction managers are very active onsite and so am I – we spend as much time onsite as possible to ensure we are achieving the results that the client is looking for."

This stellar growth is set to continue in coming years from NSW number one signal company, Complete I.T.S Group and becoming increasingly involved in earlier tender stages. With a winning combination of experience, dedication and specialist expertise, Complete I.T.S Group offer the complete package for traffic signal, complete civil/signals or any ITS works you may require.

For more information contact Complete I.T.S Group, PO Box 209 Windsor NSW 2756, phone 02 4555 9811, mobile 0455 502 489, email info@completeits.com.au



BUILDING TRUST WITH QUALITY WORK

Established in 2011, SNG Constructions is a diverse construction company with experience in utility staging, civil projects, earthworks, piling, pumping stations, wastewater treatment, boring and pipeline works. They have Sydney Water accreditation and a range of third party accreditations.

Managing Director, Kedar Gharpure is a civil engineer and brings a problem solving mindset to the company. “We have a constructive approach. We always try to work with project teams to find solutions to challenging problems.”

The Pacific Highway upgrade project at Lisarow was a recent challenge for SNG Constructions who were contracted by Daracon Group to divert 340m of existing DN900 SCL water main pipe and associated air valves, fittings, truss blocks and piling works to enable the construction of a new bridge abutment.



Their works involved all excavation, backfilling and concrete encasement associated with the pipe removal as well as pressure testing and disinfecting the relocated water main. “This was an extremely difficult project,” said Kedar. “We were operating a 160t piling rig next to a live water main. Delicacy and precision were required to avoid breaching the existing main which would have disrupted the adjacent rail assets.”

There were significant time pressures as only a limited window was available to complete the bridge installation over the operational railway and the diversion had to be completed prior to the bridge works commencing. Continuous dewatering was required onsite during the diversion works due to inclement weather however the diversion was successfully completed on time.

“The timely delivery of this job was a great achievement,” said Kedar. “Daracon had an excellent management team and I am proud of what we accomplished with them.”

SNG Constructions have an experienced team and a network of trusted subcontractors. They offer inhouse project management and AutoCAD capability. Their experience and expertise ensures they deliver complete satisfaction on every project.

For more information contact SNG Constructions, BREED Business Centre, Warawara Circuit, Sydney NSW 2763, phone 02 8006 2929, email kedar@sngconst.com, website www.sngconstructions.com



GOOD FENCES MAKE SAFE SITES

1300TempFence is an Australian market leader in temporary fencing hire and sales. Established in 1999, they have experienced strong growth and now offer a huge stock of temporary fencing, acoustic curtains, crowd control barriers, temporary hoarding, site cameras and more.

Currently 1300TempFence has over 1.2 million metres of temporary fence on hire right across Australia, with such extensive stock on hand, it ensures they are able to cater for projects of all sizes. They are renowned for their unrivalled next day delivery, competitive prices and high quality temporary fencing systems.

1300TempFence was contracted to supply and install temporary fencing to the Pacific Highway Upgrade providing two lanes in each direction between Ourimbah Street and Parson Road in Lisarow. Since the project commenced in February 2019, 1300TempFence have installed over 4,500m of high quality engineered temporary fence systems with bracing.

All their works were covered by robust occupational health and safety (OH&S) procedures to ensure the project ran as smoothly as possible.

In addition to the Pacific Highway upgrade, 1300TempFence are working on projects including WestConnex, the Northern Road upgrade and Parramatta Light Rail.



1300TempFence also have a nationwide presence and in Victoria they are providing products to Level Crossing Removal Projects, the Metro Tunnel, West Gate Tunnel, North-East Link and VSBA School upgrades in Victoria. In South Australia, they are working with the Port Wakefield to Port Augusta Alliance and the Port Wakefield Overpass and Highway Duplication.

The multi-disciplinary team at 1300TempFence has experience in both the construction and event sectors and offer complete fast and reliable site solutions with industry leading products for any project at competitive prices. 1300TempFence has built a strong reputation for ensuring customers can get their job done safely and securely with all products fully compliant to Australian standards.

For more information contact 1300TempFence, 416 Foleys Road, Derrimut VIC 3026, phone 1300 836 733, email info@1300tempfence.com.au, website www.temporaryfence.com.au

LEADERS IN FORMWORK INNOVATION

ReadyForm is a leading formwork, steelfixing and concrete company located on New South Wales' Central Coast. With over 17 years industry experience, ReadyForm has established a reputation as a reliable contractor focused on achieving the best quality without compromising safety.

ReadyForm completed the formwork, reinforcement and pour of a range of concrete structures for the Pacific Highway upgrade in Lisarow. Their original scope was focused on retaining walls but was increased during the project to include capping beams, culverts, headwalls, girder installations, apron works, edgeboards and other elements.

"We do all sorts of concrete works and are flexible and versatile to meet our clients' needs," said Dean Buczynski, Owner. "This helped

us expand our role at Lisarow and we ended up responsible for probably the largest overall contribution to the project in terms of concrete structures."

The Pacific Highway upgrade was a complex project in a challenging location. "It's a wet, swampy site and the project involves lifting the entire roadway higher above the water level," Dean explained. "Rain impacts were a big challenge for us. We managed to work around the issues as well as COVID-19 related shutdowns to get our works done."

This was the first time ReadyForm worked with main contractor Daracon and they established a good relationship during the works. "Daracon had a good team who worked together with us to push the job forward," Dean said.

ReadyForm is highly experienced in road infrastructure and hold an RMS B80 qualifications. They also work in diverse sectors including mining, residential and multi-storey works, parks and civil infrastructure, rail, education and more. They own and operate their own excavation and earthworks equipment and have worked with many of Australia's leading construction and engineering companies.

Whatever the sector, ReadyForm excels at achieving quality results on intricate and complex formwork packages.

For more information contact ReadyForm, phone 0413 199 018, email info@readyform.com.au, website www.readyform.com.au



INFOCUS : NEW PLANNING TOOL FOR DEVELOPERS



TRANSPORT FOR NSW LAUNCHES ONLINE LANDUSE TOOL TO HELP DEVELOPERS PLAN PROJECTS

Transport for NSW has launched a new 'one-stop-shop' landuse webpage to help developers who are planning projects that may interact with roads, rail and waterways.

Director Development Services, Land Use, Damien Pfeiffer said having the correct information to hand could save developers time and money when planning a project with potential impacts on transport networks.

"The aim of this new online tool is to direct developers to resources that will help prepare their application before submitting it for approval through the Planning NSW Portal," Mr Pfeiffer said.

"There are a range of regulations regarding roads, rail and waterways that developments must adhere to and it's easy to miss a step or make an error that could result in their application being delayed or even rejected, and no one wants that.

"We work every day with project proponents, and we hope the webpage will foster even greater collaboration between developers, councils and Transport for NSW during the early stages to help achieve the best possible outcomes.

"Last year, more than \$6 billion capital investment value in development applications were assessed by Transport's Regional and Outer Metropolitan Development Services team along with more than \$33 billion in State Significant Developments and Infrastructure.

"This website is one tool Transport is using to help these applications move through the assessment process smoothly and efficiently as we look to keep the economy moving given the COVID-19 related impacts of recent years and will continually evolve."

Road-related resources on the webpage include road classifications, information on which agency is responsible for each type of

road; fact sheets; and advice on carrying out roadwork during a project.

For developers where the project may have potential impacts on the rail network, there is information about delegated rail authorities and utility supply authorities as well as key contacts.

Developers can also find details to help when proposing projects that may impact on the waterways of Sydney Harbour and its tributaries, as well as Botany Bay, Newcastle Harbour and Port Kembla Harbour.

Scan the QR code to access the developer planning webpage.

More Information:
Media Contact
02 9462 6299

