

# A TROPICAL REMEDY

The \$449M Townsville Hospital expansion comprises four stages, including an upgrade of the Townsville Cancer Centre and refurbishing to a number of care facilities.

PROJECT END VALUE : \$449 million  
ARCHITECT : Cox Rayner Architects & Planners



The redeveloped Townsville Hospital will offer the local and regional community a wider range of health services. The redevelopment will future-proof the hospital and allow for further expansion to meet future demand.

The improved Townsville Hospital will significantly expand health services in the Townsville region and deliver long-lasting benefits to the local community. The redevelopment is part of a major network of hospital infrastructure developments to meet the future health care needs of North Queensland.

In July 2011 the hospital's new \$94 Million North Block opened as the first stage of the

\$449 million redevelopment project. North Block included the opening of the hospital's new 75 bay emergency department (ED) which is now the biggest ED in Queensland. North Block also includes a 34 bed maternity unit and an expanded Intensive Care Unit (ICU).

Redevelopment at The Townsville Hospital continues at a brisk pace and expanding further to cater to the health care needs of the people of north and north-west Queensland.

Stage 1 and Stage 2 provides:

- expanded medical imaging
- 34-bed maternity inpatient unit

- expanded emergency department with 75 treatment spaces and 16 emergency short-stay beds
- office and educational space
- 30-bed intensive care unit
- expansion and refurbishment of neonatal intensive care to 50 cots
- new birthing suite
- plant space
- support services

Stage 3: A building extension at the front of TTH has been completed (October 2012) with two new operating theatres and support services, for better cardiac and orthopaedic/trauma surgical services. Shell space has also

been provided on the ground floor for future medical imaging expansion.

A new larger Central Energy Facility at the eastern end of the hospital campus was completed in June 2013, and provides more infrastructure capacity and ability for future expansion.

Pathology services will expand eastward into a new purpose-built facility. The new laboratories will help meet current and future needs of the hospital and district.

The building structure is designed for vertical expansion, maximising future flexibility.

The South Block facility will have three floors, one shell and two fitted out. Its design will allow for three more levels in the future. The Master Plan proposes a future clinic between South Block and the main hospital for outpatient and ambulatory space.

Stage 4: The Townsville Cancer Centre expansion includes a significant enhancement to the Cancer Care Centre. Initially, the existing Cancer Centre will be expanded with three new radiotherapy bunkers, radiotherapy clinics and support spaces, and more day therapy treatment places.

Stage 5: The proposed Planned Procedure Centre (PPC) aims to enhance regional access

to elective surgery. The PPC will focus on day cases to reduce pressure on the existing operating theatre suites, and minimise the impact of unplanned emergency cases disrupting scheduled elective cases.

Two new procedure rooms of generic operating room size will be provided along with support space, additional recovery bed bays, second and third stage recovery spaces and day surgery capacity.

*For more information on Townsville Hospital Redevelopment visit* [www.health.qld.gov.au/townsville/Redevelopment/redevelopment.asp](http://www.health.qld.gov.au/townsville/Redevelopment/redevelopment.asp)



## TOWNSVILLE HOSPITAL ENSURES COMPLIANCE WITH RAVEN

Raven produce Australia's most comprehensive and innovative range of door and window seals and is one of the most trusted brands in the building hardware industry. Raven's leading range is backed by unequalled industry knowledge and certified testing which is why Raven was the supplier of choice for the Townsville Hospital project.

Raven supplied a variety of door bottom seals, perimeter seals and threshold plates for the Townsville Hospital project providing complete door sealing systems that were designed to meet a variety of sealing requirements. Raven seals were required to perform across multiple levels from the exclusion of fire, smoke and weather through to acoustic attenuation and the containment of energy.

"Most projects, but particularly those in the healthcare industry like the Townsville Hospital require every component to meet strict regulations and standards. They also require certified testing to back this up. Raven's leading range of tested and certified sealing systems is why we see our products chosen time and time again," said National Account Manager, Luke Read.

Luke explained that with projects such as the Townsville Hospital, certification of products and their performance is a critical requirement to ensure compliance of the project, not just for now but into the future. Raven's extensive ranges of NCC compliant sealing systems are backed by NATA accredited test certificates. Raven is also independently certified to international quality standards ISO9001 ensuring you get the best products, at the best price, backed by the best service every time.

In addition to strict testing and certification requirements, the Townsville Hospital project also required Raven seals to be easy to install, made to withstand heavy duty use, require minimal maintenance and to meet the aesthetic requirements of the architect. As an Australian family owned and operated business, Raven was able to deliver on all

points as well as provide vital technical support to the architects and builders including certifying authorities as required on completion of the project.

One of the biggest challenges for Raven on the Townsville Hospital project was accommodating the Bariatric Hoist System which ran throughout the hospital. The rail system was installed on the ceiling passing through doorways, meaning Raven needed to deliver a sealing system to accommodate the hoist, whilst ensuring a compliant and high performing solution. Raven's extensive range coupled with its unequalled industry knowledge and expertise meant a sealing system was quickly designed in conjunction with the architect and builder to meet this requirement.

"Another challenge of this project was working against strict and often tight deadlines. Our streamlined distribution systems and legendary near perfect picking rate meant our products were onsite and on time as needed. The design of our products also meant that installation was highly efficient, with many products easily adjustable to ensure the perfect fit and optimum seal every time" said Luke.

Raven invented and developed the first door seals in Australia and is celebrating 65 years in business whilst continuing to remain at the forefront of the industry here and overseas. With in-house NATA accredited testing facilities and a professional team of engineers and designers, Raven can quickly develop new and innovative ways to respond to advances in the building industry here in Australia and around the world.

Similar recent projects where Raven have also been the brand of choice include the Gold Coast Hospital, the Royal North Shore Hospital and Flinders Private Hospital to name just a few.

*For more information contact Raven Products Pty Ltd, phone 1800 888 123 email sales@raven.com.au or visit www.raven.com.au*

## THE RIGHT RIGGING

As a local family business Metalrig is invested in the city of Townsville. For this reason the company was proud to be an integral part of the continuing redevelopment of the Townsville Hospital.

“We have rapidly expanded to encompass all facets of steel and pre-cast/tilt panel erection, boiler making and rigging,” he said. “For this reason we have expanded our team from five employees in 2004 to 28 people in 2013, servicing rural, regional and urban North Queensland from Cairns to Mackay and as far west as Mt Isa.” said Managing Director Chris Lane.

Metalrig was able to showcase its pre-cast/tilt panel and structural steel erection through the Townsville Hospital project, in particular the Cancer Centre, pathology, CSSB and South Block. Add to that the supply of all mobile cranes and dogmen for Thiess and it is easy to see how 18 workers were required for this job.

“This was a particularly tricky project in that our employees were working in and around a live hospital. Uppermost in all of our minds was maintaining the highest level of care and respect and never forgetting we were amongst services that were critical to many people.”

“On this job the same as on all our other jobs we continued to offer outstanding customer service by personally tailoring our services to fulfill specific industry needs and individual demands.”

As Metalrig has continued to expand its business, one thing that has never been forgotten or forsaken is customer service. With Chris himself having a personal focus on job satisfaction and safety this message is regularly filtered to staff.

“A high level of customer satisfaction, safety and a professionally finished job on time is the mantra we live by and it is of vital importance to all staff and management.”

“Staff satisfaction is a major component to any successful business and we contribute to this by ensuring our staff are confident

and that they are briefed on all works being undertaken, qualified and knowledgeable. By doing this, everyone has the same understanding of the job requirements and we work together to achieve a common goal – completion in a safely and timely manner.”

It is this commitment to quality every time that has seen Metalrig continue to be a leader in its industry. This is reflected in the work that Metalrig has been involved in from smaller jobs such as Mike Carney Toyota through to larger projects including the Townsville Port Inner Harbour Expansion – Cruise Ship Terminal.

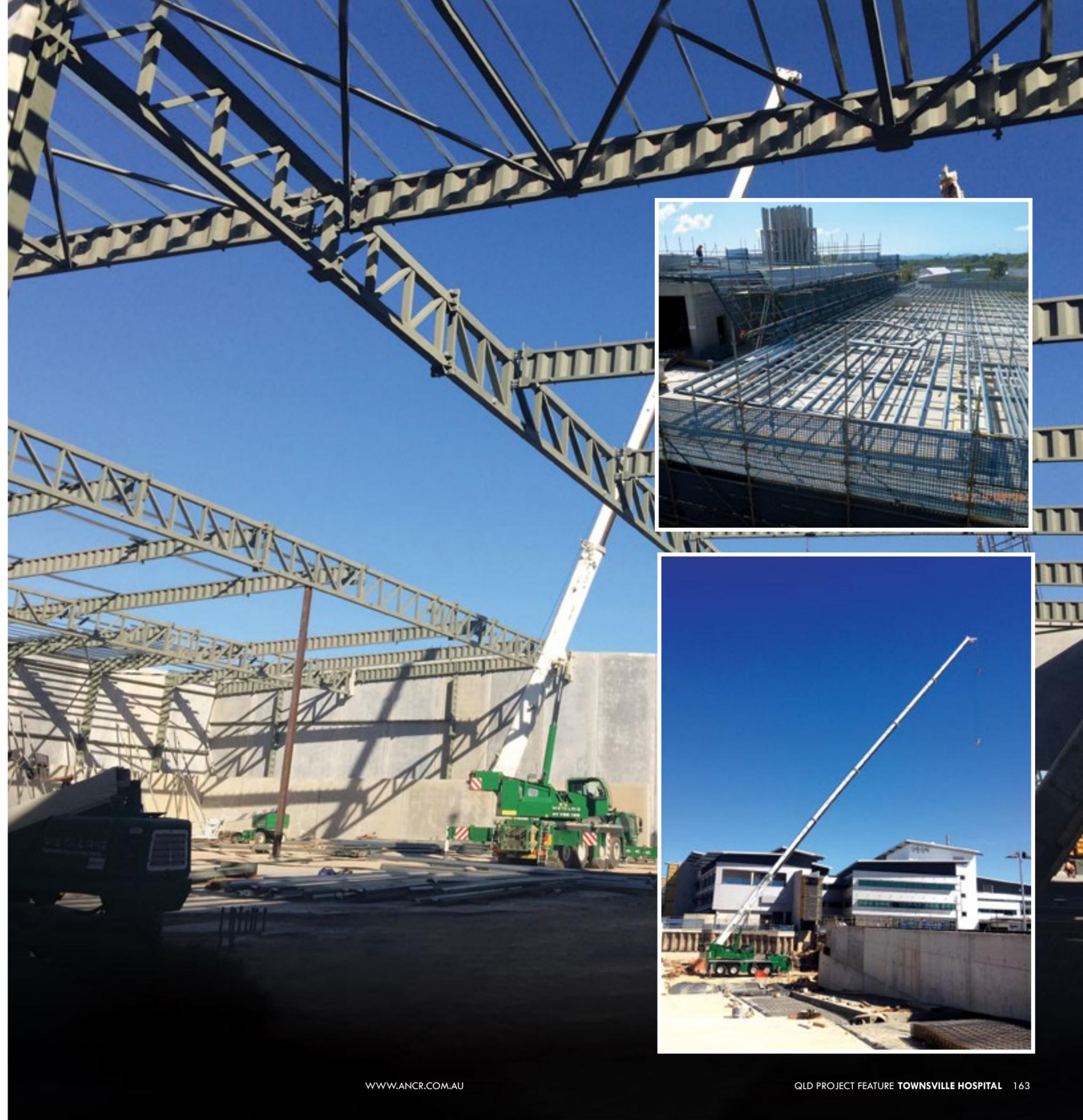
“It is tremendous for us to be involved in such substantial local projects because we are a local business and this development of industry however big or small will make a real difference to our area.”

“As has been highlighted on many of our projects our valued team comprises of qualified and motivated professionals with cross-functional expertise, skills in all areas of the erection business who provide a high quality of workmanship.”

“We know safety is vital to our continued success especially on projects such as the Townsville Hospital and Townsville Port so we value the importance of regularly up-skilling and training our staff to ensure maximum safety and efficiency at all times.”

“We have a strong focus on accountability and know the importance of following through with our commitment to provide quality services while remaining competitive on price and ensuring both safety and customer satisfaction is achieved; something that was definitely achieved at Townsville Hospital.”

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## AN ELECTRIFYING ACHIEVEMENT

Cairns based electrical engineering company; Babinda Electrics is a North Queensland success story. Having started in the small sugar town of Babinda in 1968, the company has grown to an electrical and mechanical contracting business that rivals any in Queensland.

With work completed on the Townsville Hospital, and the company currently working on the Mt Isa Hospital, Cairns Base Hospital, Mareeba Hospital and Atherton Hospital, this is an area that all staff has an appreciation for the intricacies of this style of work.

Babinda Electrics Senior Estimator Peter Grayson said on the Townsville Hospital project the company's 20 odd staff and sub-contractors faced an especially challenging process of connecting a new HV power standby power system to the existing hospital LV stand by power system.

"This had to include the provision of a third HV supply authority feeder to the hospital which proved to be quite testing but we achieved an excellent result in the end," he said.

"Through working on this stage of the hospital upgrade we were able to develop a good knowledge of the hospital which has helped with the work we are now doing on its Pathology section and the South Block redevelopment.

"This project allowed us to showcase some of our specialties well as we were involved in the electrical installation of HV cabling, HV switchboards, HV generators, LV installation, controls, SCADA and communications."

Considering its 45 years experience in the industry, it is no wonder the Babinda Electrics team has such extensive knowledge of design and construction, commercial and industrial installations and has expanded to have permanent branches in both Cairns and Thursday Island.

"We are a forward thinking company that has diversified into energy efficient programs such as Solar systems, Lighting Control systems, BMS and other energy saving initiatives," Peter said.

"Our generator supply and installation projects have included seamless transfer and co-generation which has proven beneficial on a number of major projects for both private and government contracts.

"It is this extra service and experience that really makes the difference."

For more information contact Babinda Electrics, 99 Newell St, Cairns, QLD 4870, phone 07 4050 9100, email reception@babinda-electrics.com.au, website www.babinda-electrics.com.au

Townsville Hospital, QLD