

CENTENARY HOSPITAL FOR WOMEN AND CHILDREN

Leighton 'Delivers' another significant healthcare project.

MAIN CONSTRUCTION COMPANY : Leighton Contractors Pty Ltd
CLIENT : ACT Health
PROJECT END-VALUE : \$111 Million
COMPLETION : July 2012
ARCHITECTS : BVN (Bligh Voller Nield)
STRUCTURAL ENGINEER : TTW (Taylor Thomson Whitting)



The new Centenary Hospital for Women and Children, on the campus of Canberra Hospital, had a \$111Million budget. It's a significant component of the ACT Government's Health Infrastructure Program.

Leighton Contractors began work on Stage One (a new build next to the existing maternity building) in September 2010, due to complete in July 2012. Leighton Contractors will also carry out Stage Two of the project which involves refurbishing the existing maternity building - aiming for completion in August 2013.

The new building is 15,000m² over 3 levels. It is a conventional reinforced concrete structure, with a basement that will link to the future basement of the existing building. It is a conventional reinforced concrete structure, with a basement that will link to a new basement level that will be created as part of the main hospitals future redevelopment.

Tim Mason, Project Manager at Leighton Contractors said that working next to an existing Maternity hospital together with a neo-natal intensive care unit made them reassess how they would normally work. 'We needed to be very well aware of noise, dust and interference with hospital operations,' Tim said, 'You wouldn't like to think that you were responsible for compromising patient care'

Managing dust was paramount, 'We sealed the gaps and cracks in the existing building' says Tim, 'We also put additional filters on air handling units, put baseline dust monitoring in and continually monitored the dust levels in the existing building to make sure we weren't increasing the impact of the building works on the hospital'.

Vibrating rollers could not be used on the footings and ground areas as vibration could be felt within the existing building. The subgrade

was rolled into smaller sections and normal rollers were used which created less impact on clinical function. Controlling noise was more difficult. 'We just made people well aware at our inductions of the impact of noise on patient care and our supervisors prevented workers from creating noise that could be avoided.'

Another challenge of the project was access. The site is bordered by three busy roads and delivery areas needed to be managed with the hospital loading dock zones. The delivery of food, linen and other hospital goods was shared and co-ordinated with the construction deliveries. Thankfully, there weren't any women in labour banked up behind construction equipment.

Mason was inspired by the staff at the hospital, 'It's good to work with staff who are so passionate and so focused on patient care. The new building is breaking new ground for them and they're all

very excited and happy about getting in under the new modes of care'. The hospital staff are very excited about moving into the new building that they have all had a part in designing.

Leighton Contractors is a specialist Healthcare Construction contractor focused on delivering projects and services that make a difference in people's lives and create lasting value for future generations.

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CONTRACTORS TO THE BUILDING INDUSTRY

When Erincole Building Services tendered to build the external facade of the new ACT Women's and Children's Hospital, they put in two different bids. The first was a conforming bid to build the exterior as originally specified in a tile product as per the architect's plans. The alternative bid was to use Kingspan. From 20 years experience in the industry it would also offer a substantial cost saving.

'When I explained everything to them, including the cost savings, it was a no brainer from their point of view,' says Richards, 'It took a bit to get past the architects but now they can see the finished product, everybody's very happy with the decision. The cost saving was in the order of a bed for the hospital, and when you start talking beds you're talking big money'.

Erincole Building Services were engaged to do the project in February 2011, they've had up to 40 people on the job at any one time and when Stage One of the new hospital is complete, it will feature approximately 5,000m² of Kingspan and 2,000m² of aluminium composite panels (Alucobond), all installed by Erincole Building Services.

Finding innovative solutions for complex external facades is one of Erincole Building Services' strengths. They also have a strong history in timber construction and flat bed routing and have facilities to process aluminium composite panel and medium-density fibreboard materials. They have 60 full-time employees including a swath of carpenters, experienced foremen and apprentices.

Erincole Building Services have won numerous awards including Best Use of Material and Subcontractor of the Year. They have worked on major projects such as Brindabella Business Park and Parliament House and are currently working on the facades of Equinox Business Park and Canberra International Airport.

For more information contact Erincole Building Services, 14 Silva Avenue Queanbeyan NSW 2620, phone 02 6297 1399, fax 02 6284 4099, email erincole@erincole.com.au, website www.erincole.com.au



SGH - SOUTHERN GENERATORS & ELECTRICAL POWERS THE ACT WOMEN'S AND CHILDREN'S HOSPITAL

SGH - Southern Generators & Electrical supplied and installed two generators for the new ACT Women's and Children's Hospital. The generators will provide back-up power in the event of a power failure. Each of the 500kVa generators can produce 700 amps of power. They can be used individually or together to produce 1400 amps worth of power. A team of around 6 people have been working alongside Leighton Contractors since September 2011 to install the generators.

The hospital will nominate essential services that have to be maintained if the power goes out; lighting, equipment in theatres, computer systems and some mechanical services are likely to be on the list. The generators are able to be programmed in a very sophisticated way, Paul O'Connor, General Manager at SGH - Southern Generators & Electrical says 'Should one generator fail, the control system will determine which parts of the hospital are the highest priority and it will automatically unload the lowest priority circuit and connect the generator to the highest priority circuits. This is being monitored constantly by the building management system and the generators also provide other critical information to the hospital as required'.

The generators were imported directly from the European factory where they are manufactured by JCB Generators. SGH - Southern Generators & Electrical are the agents for JCB Generators in Australia. After bringing them into Australia, SGH - Southern Generators & Electrical modified the control systems and did the initial commissioning at their factory in Melbourne. The generators were then shipped across to Canberra where they were installed, recommissioned and load-tested to make sure that they work in any situation.

The headquarters of SGH - Southern Generators & Electrical are based in Melbourne, they have branches in Sydney, Brisbane and Newcastle and authorised dealers throughout Australia. Many essential services rely on their generators such as fire-brigades, ambulance, telecommunications and mining.

For more information contact SGH - Southern Generators & Electrical Melbourne - Sydney - Brisbane - Newcastle, 1300 350 706 - 24/7, www.sgh.com.au



Centenary Hospital For Women And Children, ACT



SETTING THE BENCHMARK FOR CONCRETING

CPS Concretors Pty Ltd pumped and placed the concrete for the ACT Women's and Children's Hospital in Garran in the ACT. The hospital was built in two stages and CPS Concretors Pty Ltd were in from the start, working on the main structure for around seven months with other bits and pieces extending the work to nine months.

Other projects that took nine months were being born on a daily basis in the existing maternity hospital which the new ACT Women's and Children's Hospital surrounds - construction noise had to be kept to a minimum throughout the build.

CPS Concretors Pty Ltd was started 25 years ago by three partners, one of whom has now retired. There are now 16 full time employees, with contractors brought in when required. Tony Costanzo, Contract Administrator and Safety Officer, is the son of one of the partners and he's well qualified to be in his position as he had a good stint 'on the tools' before stepping into a supervisory role.

'On big pour days we'd have up to 20 people on a pour, sometimes more, but for smaller pours around 10 -12, it just depended on the day really,' says Costanzo, 'It went pretty smoothly really, because Leighton were very organised'.

The team did all the concrete pumping as well as pouring all the slabs, columns, walls and stairwells, with Director Sebastian Costanzo supervising and managing all pours, bookings and workers, and Managing Director Rocco Sergi occasionally supervising pours and handling the administrative side of things. CPS Concretors Pty Ltd have a full suite of finishing equipment and five concrete pumps, four of which were used on this job. Joe Bencich, who is a Director of CPS Concrete Pumping Pty Ltd manages these pumps.

The company are also working on the Canberra Airport upgrade. They finished Stage One at the end of 2011 and are now onto Stage Two, working on both the new Terminal and the carpark. They've also been working on apartment buildings for PBS and student accommodation for ANU. CPS Concretors Pty Ltd mainly work on big commercial jobs in the ACT. They are known for the quality and efficiency of their work and their capacity to take on large-scale projects.

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