

# MODULAR CELLS MEET HISTORIC PRISON

The modern fence-line of the new 220-bed maximum security area of Bathurst Correctional Centre meets the historic walls of the 19th century prison as the expansion project reaches construction.

Minister for Corrections, Anthony Roberts and Member for Bathurst Paul Toole toured the site to see the final works on the Bathurst project,

which is part of the NSW Government's \$3.8 billion investment in safer prisons.

"It is great to see construction is running on time with up to 150 subcontractors working hard on the ground to ensure it's complete by May (2020)," Mr Roberts said. "The expansion means an additional 65 jobs will be created at the centre, providing a diverse range of

employment options for people in the Bathurst area."

Mr Toole said Corrective Services NSW was not only an important employer in the region but its staff made a valuable contribution to the community.

"Bathurst Correctional Centre is well known for its fundraising efforts for drought affected farmers, the Defence Community Dogs program and the inmate project teams, who donate their time to community groups, such as Lifeline," Mr Toole said.

"I'm pleased that this contribution will further flourish with the additional jobs and the increase in inmates and that the Central West community will continue to benefit from the centre's presence in town."

Corrective Services NSW Deputy Commissioner Luke Grant said the expansion project commenced in August (2018) and its timely construction was due in part to the use of modular cell blocks.

"The project takes one of Bathurst's most historic landmarks and gives it a state-of-the-art modern addition with new gatchouse, inmate reception area, and visits and health services buildings," Mr Grant said. "Importantly, there are purpose built education and industries buildings to ensure inmates have work and training opportunities to gain the skills they need to enhance their employment prospects and reduce their chance of reoffending."

*For more information contact Department of Corrections, website [www.justice.nsw.gov.au](http://www.justice.nsw.gov.au)*





**Below** Minale Tattersfield Australia designed a family of signs for the correctional centre to help with wayfinding throughout the facility.

**Below** Aitken Civil provided a range of civil services on the project including demolition, bulk and detail earthworks, drainage and road works as well as FPR for vital infrastructure.



Minale Tattersfield Australia is an award-winning wayfinding design and branding agency, part of the global Minale Tattersfield Design Strategy Group, and so are able to operate within an Australian context combined with the resources of a worldwide company. In 2018, Minale Tattersfield was contracted by Hansen Yucken to design the signage for Bathurst Correctional Centre.

“For Bathurst we implemented a similar design approach to the work we completed for Hansen Yucken at Wellington Correctional Centre in 2016. At Wellington we wanted to improve upon the standard signage used for correctional facilities and designed a new family of signs and graphics for a complex environment with a high demand for operation and security,” explained Principal, Hans Gerber. “This approach evolved from the design of signage and graphics we completed for the Villawood Immigration Detention Centre in 2012, where we generated a family of signs more familiar to a large civic centre, rather than an institution.”

“At Bathurst we worked closely with the architect, builder and client to design a similar system, however two thirds of the way through the project the brief changed, we reviewed the original design and

delivered a combination of the original design as well as sign types that complied with the new guidelines.”

Established in 1992, Minale Tattersfield Australia provides a comprehensive service of wayfinding systems that are strategically led and creatively driven. Their services include consultation, design and documentation for masterplans, place identities and naming strategies.

Minale Tattersfield Australia also offers and has experience with the design of masterplans, maps, museum signage, and wayfinding strategies for precincts, parks and entire cities. At the core are comprehensive wayfinding signage and branding manuals across all sectors.

“Our current workload comprises projects in the health, education, private and cultural sectors. The work across these disciplines, each with different clients, project complexities, deadlines and deliverables keeps a specialised firm like ours very busy.”

*For more information contact Minale Tattersfield Australia, 13A/47 Neridah Street, Chatswood NSW 2067, phone 02 9413 4183, email [admin@minale.com.au](mailto:admin@minale.com.au), website [www.minale.com.au](http://www.minale.com.au)*

Aitken Civil Engineering are specialists in earthmoving focusing on the delivery of complex and challenging projects for the public and private sectors. Starting in August 2019, Aitken Civil provided demolition services, along with bulk and detail earthworks. They also supplied Forming, Reinforcing and Pouring (FRP) for retaining walls, water and sewer infrastructure and OSD tanks as well as laying rigid and flexible pavements including council roads.

“Access to the site was a challenge as it was a live correctional centre with many security considerations yet the job was completed five months ahead of schedule,” explained Owner, Alex Aitken.

During peak periods Aitken Civil had up to 50 workers onsite as well as a range of 2-50 tonne excavators, a D8 dozer, compactors, positracks and compaction rollers to complete the job by January 2020.

Established in 2017, Aitken Civil distinguishes themselves from their competitors by offering a comprehensive service that includes the design and construction of foundation and shoring piles, underpinning, temporary and permanent ground anchors. They offer bulk filling and backfilling, offsite disposal of contaminated materials and site remediation, drainage and road works. The team also has

experience working adjacent to heritage buildings and within live sites such as shopping centres.

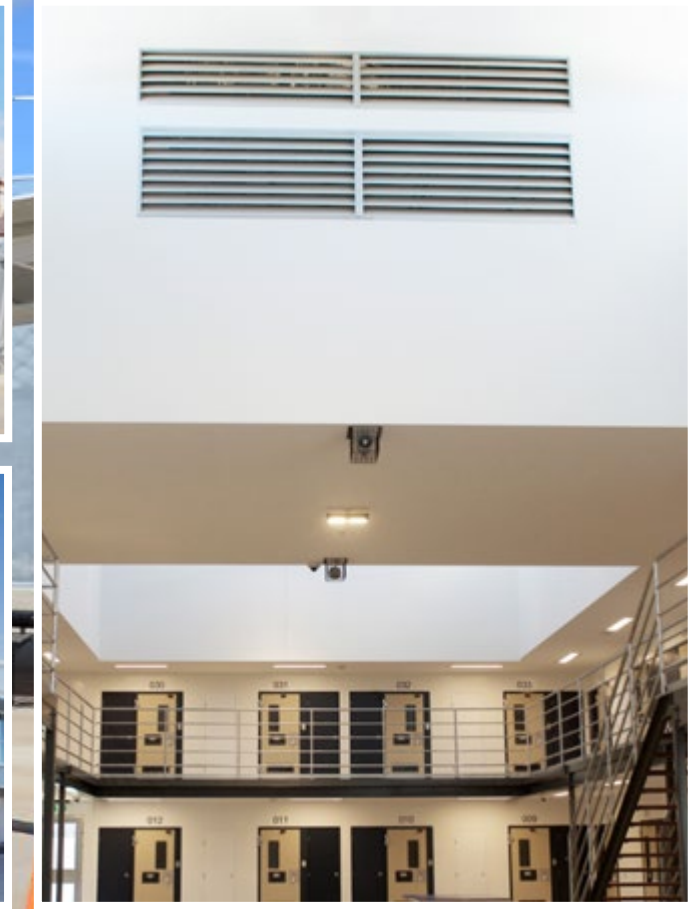
“We have qualified staffing to all sites and advice for innovative ideas throughout the job from initial planning from tender stage to completion, and also provide project management services. All our work is completed on schedule, to budget and most importantly safely,” said Alex.

“We have a history of delivering successful projects for Hansen Yucken, we provided civil works for them at the landmark development Western Sydney Performing Arts Centre. The team at Hansen Yucken are extremely professional and we appreciate the strong working relationship we have with them.”

*For more information contact Aitken Civil Engineering, 2/102 Queens Road, Five Dock, NSW 2046, phone 02 9705 1611, email [accounts@aitkencivil.com.au](mailto:accounts@aitkencivil.com.au), website [www.aitkencivil.com.au](http://www.aitkencivil.com.au)*



**Below** Bathurst Sheds installed a 14m x 8m Colorbond shed to be used for a tea room, and tool and equipment storage.



**Below** CVS Equipment supplied and installed aluminium and hot dipped galvanised steel ventilation louvres across 10 buildings at the centre.

**Bathurst Sheds is a leading supplier of steel buildings across the central west of New South Wales including Orange, Lithgow and Mudgee.** For the Bathurst Correctional Centre upgrade Bathurst Sheds was contracted to erect a 14m x 8m Colorbond shed to be used for storing tools and equipment and to provide a tea room.

Director Mathew Smith, worked with the architect's specifications, using auto CAD to streamline the design. Working drawings were then sent to steel suppliers Stramit and onsite installation began in early 2018. Before completion, Bathurst Sheds were asked to install a second building, a 15m x 10m Surfmist Colorbond shed to be used for further storage, a garage, office space and staff toilet facilities.

"We got the sheds up really quickly," said Mathew. "With four installers at work the job went really well."

Established in 2015, Bathurst Sheds is a family company offering a range of standard designs and uniquely tailored sheds solutions for farm, industrial and commercial purposes.

"We also design, supply and install sheds for small dwellings, such as granny flats and the range of options available ensure we can match the

style of any existing building. The CAD program we have makes our work easier. At Bathurst Sheds we are able to supply and construct any design according to any specifications and any special requirements," Mathew explained.

"The biggest job we have completed to date was a 60m x 15m x 4.5m high industrial shed in the town of Bathurst. Before completion we were approached by a number of people asking for the same product."

Bathurst Sheds is a preferred supplier for the Corrective Services and installed a fully insulated shed to the old part of the gaol before the upgrade. "We've also been contracted to build a massive carport for staff parking at Kirkconnell Correctional Centre, east of Bathurst," added Mathew.

*For more information contact Bathurst Sheds, 5475 Sydney Road, Raglan NSW 2795, phone 02 6331 9405, email sales@bathurstsheds.com.au, website www.bathurstsheds.com.au*

**Established in 1984, CVS Equipment (CVS) is an Australian owned family operated company specialising in the design, supply and installation of quality metal louvres and sunscreens for external applications.**

In September 2018, CVS were contracted to supply and install aluminium and hot dipped galvanised steel ventilation louvres across 10 buildings at the Bathurst Correctional Centre. Working to supplied specifications, Project Manager Reggae Darley-Jones, spent four weeks detailing the design and creating samples for approval.

"As we worked through the design the job evolved and we amended a number of details," Reggae explained. "We had to come up with a design that was robust enough to withstand severe damage and used 3mm thick steel which is a lot heavier than our standard material, at 40kg/m². Fabrication was challenging and we had the louvres ready for installation by November. We completed a similar installation at Grafton Correctional Centre and also at Silverwater."

CVS often fabricate onsite but the size of the louvres for the Bathurst Correctional Centre required the work to be carried out at their Minto facility.

"We employ up to 30 people at Minto where we have own powder coating facilities with an 8m long booth and oven. For the last 20 years we have been operating as accredited applicators of Dulux and Interpon powders, with a plethora of colours available. Recently we manufactured and installed gold coloured ventilation louvres for the road tunnels near Sydney airport," said Reggae.

"We have been working with Hansen Yucken for many years and recently completed installing ventilation louvres to their warehouse project at Moorebank."

CVS also provide architectural louvres and ventilation solutions, sun blades and battens all available with gloss and matte finishes as well as with protection primers, anti-bacterial and anti-graffiti coatings. Currently CVS are installing louvres at NIF Kangy Angy, a new intercity maintenance facility for Transport for NSW.

*For more information contact CVS Equipment, 7 Airds Road, Minto NSW 2566, phone 02 8796 3000, email sales@cvsgruop.com.au, website www.cvsgruop.com.au*



**Below** Idealcorp manufactured, supplied and installed 850 plus screw piers across 2 Stages of the Bathurst Correctional Centre.



**Below** DECRO Group painted all the internal surfaces including walls and doors as well as the exposed structural steel and carpark line marking.



**Idealcorp are leaders in geotechnical assessments and screw pile foundation systems designed for residential and light commercial construction.** Having worked with the Hansen Yuncken team previously on a large project in Wellington where Idealcorp had successfully completed piercing for the Wellington Correctional Centre, they were looking forward to following up with the project at the Bathurst Correctional Centre.

For Idealcorp the challenge was to manufacture, supply and install 850 plus screw piers up to 6m deep to meet a strict timeframe.

“The project was planned to be installed over 2 Stages and working with the team of James Medlock, Dylan Screpis and Justin Sut from Hansen Yuncken we were able to meet the tight site schedule,” said Peter Rankin, National Sales Manager. “For our company it was rewarding that we were able to assist our client with accelerating the program and bring forward a portion of Stage 2 and install as part of Stage 1.”

This was accomplished due to the flexibility of Idealcorp’s workforce. As manufacturers as well as installers, they were able to mobilise their inhouse team to manufacture the extra custom product required to

meet the request. “The team assigned to this project have over 20 years of experience and their ability to adapt, liaise with other trades and hit their installation targets meant that we were always confident in our ability to perform and to give that confidence to the site team of Hansen Yuncken,” said Peter.

A requirement of this project was to have piers load tested independently, which Idealcorp arranged and achieved.

“Screw piercing is becoming increasingly popular in the building sector and our ability to custom manufacture, supply and install, along with the ability to call upon our in house geotechnical team allows us to determine correct depth of pier, supply and install product, confident that we are providing a solution for our clients that best meets their needs,” explained Peter. “We have enjoyed the experience of working with Hansen Yuncken on both Correctional Centres, one being slab on ground and the other raised piers for modular buildings. We look forward to continuing our association.”

**For more information contact Idealcorp,** 16-18 Sammut Street, Smithfield NSW 2164, phone 02 9725 5522, email [info@idealcorp.com.au](mailto:info@idealcorp.com.au), website [www.idealcorp.com.au](http://www.idealcorp.com.au)

**DECRO Group is a team of professional painters specialising in providing a personal service and ensuring client satisfaction.**

DECRO Group started work at Bathurst Correctional Centre in February 2019, with the scope of works including the preparation and painting all the internal surfaces of the complex, the walls and doors as well as the exposed structural steel members. External work included line marking for parking bays and designated delivery areas.

“It was a large scale project for team,” explained Owner and Director, Daniel Veg. “We had five painters working continuously for 12 months. The challenge of the job involved coordinating our work to fit in with the other trades, but as soon as we got ourselves settled into a system of working, everything went really well. Hansen Yucken made it very easy for us, they were wonderfully well organised and helped us in a big way, we’re looking forward to working with them again.”

Daniel established DECRO Group in 2016 after a 15 years experience of the industry working in the family painting business. DECRO Group focuses on the commercial sector in the Sydney CBD and surrounds and also paints for the residential, retail and hospitality sectors.

“We use quality Dulux products and source paint from local suppliers, using the local Dulux franchise in Bathurst for the Correctional Centre project. We have our own transport and equipment and a permanent crew of 16 ready to travel and stay to complete work for special projects around Australia,” explained Daniel.

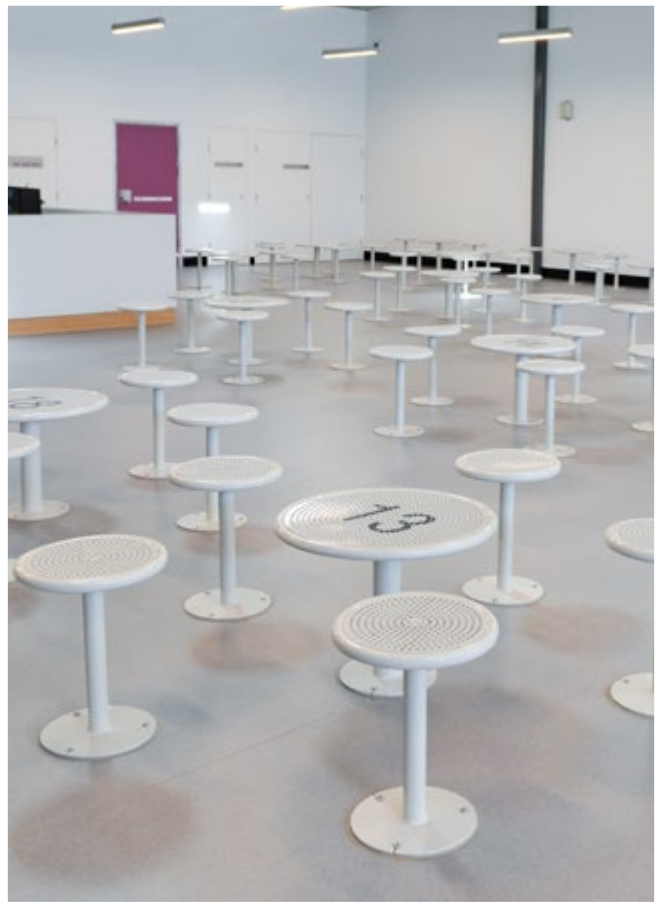
In 2018, DECRO Group finished a contract at Daydream Island Resort for Amicus Hospitality Group Pty Ltd (AHG) and prior to that, were in Tasmania to paint the The main foyer/conference rooms of Cradle Mountain Lodge in Launceston. “We had the heaters on during that job in order to keep the paint flowing smoothly during application and to assist with the curing,” said Daniel.

**For more information contact DECRO Group,** 34 Maple Street, Greystanes NSW 2145, phone 0405 918 309, email [daniel@decrogroup.net](mailto:daniel@decrogroup.net)



**Below** Woolacotts designed a 630,000L underground storage tank for the Bathurst Correctional Centre which fills during off peak water times.

**Below** Corrective Services Industries designed and manufactured fixed metal furniture including beds, desks and shelving for the accommodation units.



Woolacotts is a professional engineering consultancy providing structural, civil, hydraulic and fire engineering design services. In March 2018, Principal Hydraulics Engineer Ian Stalkerc, started the hydraulics engineering for the \$160 million, 220 bed maximum security Bathurst Correctional Centre and also carried out a number of site inspections as the prison construction continued.

“Designing a system that met the demand for water was the challenge of the job,” said Ian. “During peak water usage times, in the morning and at night, the facility would draw over 30L/s out of the council water main and largely starve the surrounding areas of water. To alleviate this we designed a 630,000L underground storage tank that automatically fills during the night, when the council water main demand is at its lowest. Built into this hydraulic system is four days of water and sewerage storage so that in the case of an emergency, the prison can be function autonomously.”

Woolacotts is recognised for innovative engineering design and in March 2016, contributed to the winning bid and has provided complete structural and civil engineering services for Clarence Correctional Centre. The \$700 million project comprised 65 structures, and 23kms of stormwater and drainage.

“During an initial site inspection in March 2016, the Woolacotts team identified flood free zones for development, minimising the amount of cut and fill required and ensuring all buildings remained outside of potential 100 year flood levels,” explained Ian.

Woolacotts have operated around for over 80 years and have embraced new technologies, implementing Autodesk Revit to produce efficient design and documentation. “We’ve worked on over 19 different prisons in Victoria, New South Wales, Queensland and Western Australia over the last ten years as well as correctional centres in Auckland and Otago in New Zealand,” said Ian.

Woolacotts has worked on a range of projects, including supplying engineering services to schools, tafes, universities, hospitals, residential and commercial projects throughout Australia.

**For more information contact Woolacotts**, Ground Floor, Solitaire, 12A Brown Street, Chatswood NSW 2067, phone (Sydney) 02 8203 1500, (Brisbane) 07 3077 6987, (Melbourne) 03 9005 1248, (Gold Coast) 07 5391 1308, (Adelaide) 08 7131 1181, (Perth) 08 6102 6345, email office@woolacotts.com.au, website www.woolacotts.com.au

**Corrective Services Industries (CSI) operates over 100 commercial business units and service teams in correctional centres across New South Wales supplying a range of goods and services to the Justice Department as well as to commercial industries.**

Starting in early 2019, CSI managed a team of inmates to design and manufacture especially robust fixed metal furniture including beds, desks and shelving for the accommodation units at the Bathurst Correctional Centre.

“A design team of three produced shop drawings and fabricating the items took 12 months. The installation was contracted out and the whole job was completed by the end of March 2020. As is usually the case the challenge was maintaining scheduling and incorporating design changes as the job progressed,” explained Business Manager, Stuart Hartley.

“We carry out welding and bending at our facility as well as powder coating of steel and aluminium and two pack spraying. CSI also design and manufacture fences, gates and grills, transportable buildings, trailers and trolleys. We refurbish demountable buildings for the NSW Department of Education and Training and produce cabinetry items for office and kitchen fitouts. We market a diverse range of quality

Australian made products for the construction industry at competitive prices and always meet our delivery targets.”

Previous work for Hansen Yuncken includes a similar furniture design and manufacture project at Macquarie Correctional Centre, a rapid build development completed in late 2017.

“The Macquarie job was particularly satisfying for us,” added Stuart. “We took the designers’ brief and supplied a mock up of the required furniture and had the design team put it through some rigorous testing. Our product stood up to some harsh treatment, it is practical and highly resilient.”

CSI ensures that inmates benefit from ongoing training, gain work skills and qualifications that enhance their employment opportunities on release. “Our work also contributes to the self-sustainability of NSW Corrections.”

**For more information contact Corrective Services Industries**, Francis Greenway Correctional Complex, The Northern Road, Berkshire Park NSW 2756, phone 02 4582 2420, email csi@justice.nsw.gov.au, website www.csi.nsw.gov.au