

DIVISION OF FACILITIES MANAGEMENT
Capital Works Improvements 2014





Welcome to the summary of capital works projects delivered during 2014 across Charles Sturt University's campuses. This is our third publication and since 2010 (which was the first year projects were summarised in these reports) the Division of Facilities Management (DFM) has delivered approximately \$300 million worth of new and improved facilities for staff and students.

The recent changes in the tertiary education sector, and in particular the government funding opportunities, have resulted in a significant downturn in major project funding and as a consequence DFM is now focusing more on internal refurbishments and improvements to existing stock. This work is challenging and requires extensive investigation, and while expenditure going forward may not be as high as previous years, the planning, investigation and modelling is arguably more intense.

Achievements delivered in 2014 showcase the breadth and depth of the work the Division is involved in and we are proud of the outcomes achieved for staff and students. Our design and delivery partners continue to be essential to our success and I thank all architects, design engineers, project managers and specialist consultants for their efforts over the past year and look forward to working together into the future.

We trust you enjoy this publication and summary of the capital works that have been delivered in 2014. Further detailed information for each of these projects is available on request.

Stephen Butt
Executive Director, Division of Facilities Management

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Albury-Wodonga Campus

Student residences

Scope

Development of new independent living apartments for visiting students and academics requiring short-term, on campus accommodation. The residences comprise 19 apartments (20 beds in total), each complete with kitchen, ensuite and dedicated car park. There are seven studio apartments, 10 one-bedroom apartments, one two-bedroom apartment and a disability apartment. All units have card-controlled access and access to a communal laundry. The apartments were built in keeping with Charles Sturt University's environmental principles and benchmark a Five Star Green Star rating. The project also included infrastructure and service upgrades, landscaping of the surrounding area and an outdoor social space.

Gross floor area – 1,400sqm

Total cost – \$3m (\$1.4m contribution from HWA)

Architects – Architectus
Joss Constuction
Charles Sturt University

Builder – Joss Construction





Gums Café offices and meeting room

Scope

Construction of dedicated working and meeting spaces for use by the Albury-Wodonga Murray Campus Council, student clubs and groups and Student Services staff. The offices are ideally located in the popular Gums Café and provide a central one-stop shop for student-based services. In total, two new offices were added, to accommodate four staff members and student council representatives, and an enclosed meeting room. The office spaces comprised new reinforced concrete slabs, metal clad framing, glazing, wall and ceiling linings, floor coverings, lighting, data and power points, heating, ventilating and air conditioning (HVAC) services and joinery. New furniture, including chairs and a meeting room table, was purchased for the spaces. An existing kitchenette was also refurbished for staff and student use.

Gross floor area – 981sqm

Total cost – \$230,000 (fully funded through the Student Services and Amenities Fee)

Architects – Teilion Architects

Builder – Southern Cross Developers

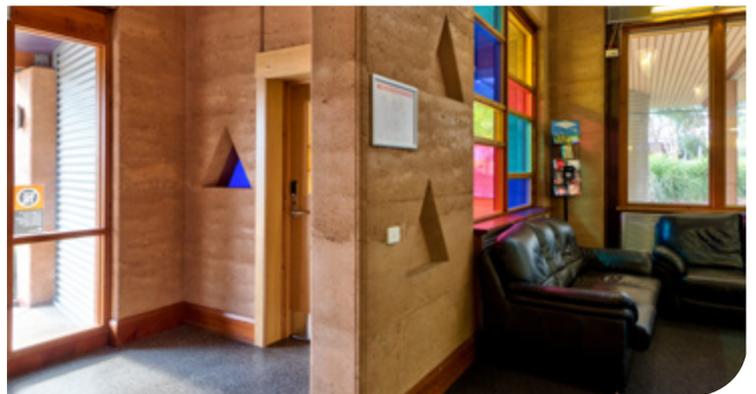
Consultant – Building Services Group (mechanical services)

Architectural features

Construction was carried out with the existing roofline intact to help minimise construction cost and build time. Surface finishings of the new spaces are primarily timber to match the wood features throughout the Gums Café. Splashes of colour, which also feature in the café, were incorporated in the design through feature panels and glazing.

Sustainability features

Demolition waste, including rammed-earth wall blocks, timber and steel were recycled, where possible. Recycled timber features throughout, including salvaged timber window frames incorporated in the new offices. Shade awnings were also installed on the north-facing windows for temperature control – reducing summer heat and allowing for natural sunlight (warmth) during the cooler months.



Albury-Wodonga Campus

Bus shelter

Scope

A bus shelter constructed at the entrance to the Albury-Wodonga Campus gives cover for waiting passengers and aims to encourage less private vehicle use to campus. Located adjacent to the CD Blake Lecture Theatre and Gums Café, the steel frame structure provides protection from the weather for passengers waiting for public transport or taxis. It also acts as a central meeting / pick-up point. The shelter was designed to be modern, colourful and fit with the existing surroundings. The colour scheme was adopted from the nearby Gums Café. Glass side and rear wall panels, displaying CSU-themed graphics and text, adds interest and appeal to the structure. A dedicated stopping bay, with kerb and guttering, was also constructed as part of the project.

Gross floor area – 24sqm

Total cost – \$45,000

Architects – Charles Sturt University

Builder – Southern Cross Developers

Consultant – Mott MacDonald (structural engineers)

Architectural features

Steel, weather-proof, long-lasting structure designed to blend in with the natural surrounds and already existing nearby structures. The addition of glass panelling provides a marketing opportunity.

Sustainability features

Improved on campus facility to encourage public transport use.





Sports complex

Scope

Students at Albury-Wodonga have a dedicated place on campus to combine learning and leisure. A new sport and recreation facility was opened in February 2014, in time for the start of the new academic year. Students are now enjoying a complex complete with leveled grass playing areas, multi-purpose courts, a basketball / netball half-court, a roofed bleacher to seat 60 spectators and a new steel-framed shelter covering newly installed barbecues and benches. Landscaping, including dedicated footpaths, gardens and the installation of lighting, was also part of the project.

Gross floor area – 1,500sqm

Total cost – \$810,000 (\$250,000 contribution from the Student Services and Amenities Fee)

Architect – Charles Sturt University

Builder – Joss Construction

Albury-Wodonga Campus

Storage shed

Scope

Construction of a new storage shed to securely store sporting equipment and other Charles Sturt University merchandise. The steel-framed, metal-clad shed is shared by members of the Murray Campus Council, Albury-Wodonga Campus sporting clubs and groups and Student Services staff. The shed is centrally located on campus for convenience and can only be accessed via staff and student swipe cards. Lighting, landscaping around the facility, storm water drainage and fire protection were also included in the project cost. The shed complements the campus's new \$800,000 sports and recreation facility, complete with basketball courts, leveled playing fields, spectator stands and undercover barbecue / socialising area.

Gross floor area – 127sqm

Total cost – \$195,000 (fully funded through the Student Services and Amenities Fee)

Architects – Teilion Architects

Builder – Joss Construction

Architectural features

External walls and roof cladding materials were selected to correspond with the nearby Learning Commons and Gums Café buildings. Fire protection provisions have also been included, such as ember protection mesh fixed to all openings, wall / eave junctions and roof vents.

Sustainability features

Stormwater drainage is directed to the campus greywater treatment ponds for subsequent reuse on campus, primarily for irrigation of gardens and lawn areas.



Bathurst Campus



Mason Hall food preparation area improvements

Scope

Upgrade works in the food preparation area of the popular Mason Hall at Charles Sturt University in Bathurst have significantly improved the space for staff and will help the University save on utility costs. Works carried out included:

- removal and disposal of redundant equipment
- replacement of wall and floor tiles
- removal of old ceiling and extraction system and new replacements installed
- installation of new drainage system and new automated commercial kitchen dishwasher.

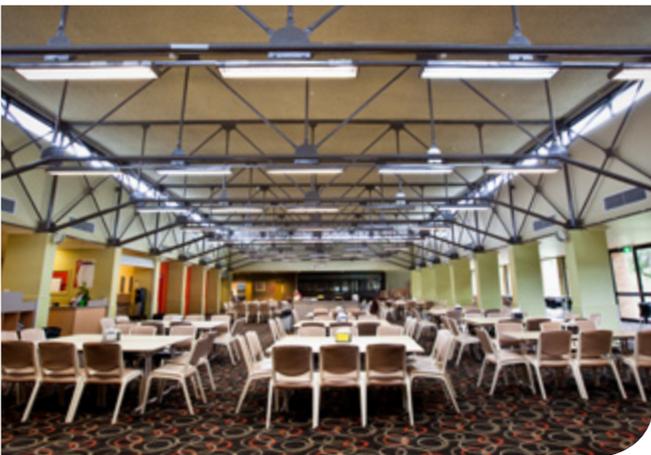
The new dishwasher uses hot water more effectively and will save the University about 30 per cent on its overall water usage. The dishwasher also improves efficiency in the kitchen as it is faster to run and less staff are required to operate it. Interior alterations, based on user feedback, maximise the food preparation space for ease of use, provide a more efficient service and increase safety for staff.

Gross floor area – 100sqm

Total cost – \$160,000

Builder – Davcon Construction Pty Ltd

Consultant – Cini Little Food Services Consulting



Bathurst Campus



Hub landscaping

Scope

The grassed area at the front of the Learning Commons at Charles Sturt University in Bathurst will be the central meeting place on campus and a space for lively activities. This project will be delivered over two stages. Stage one was complete in time for use at the start of the 2014 academic year. This stage involved installation of new seating, tables and bike racks to encourage students and staff to ride to campus. Landscaping works and new pathways were also established.

Stage two of this project involves designing a space for student engagement that is active, vibrant and welcoming. A masterplan has been established to ensure student expectations of the space are met and the design focus aligns with the University's Strategic Plan.

Gross floor area – 3,500sqm

Total cost – \$120,000 (stage one). Combined cost (stage one and two) approx \$1m (\$250,000 contribution from the Student Services and Amenities Fee)





Community Engagement and Wellness Centre

Scope

This state-of-the-art community health clinic paves the way for the enhancement of rural and regional health services in the New South Wales Central West region. The Community Engagement and Wellness Clinic (CEW) features clinical consulting rooms for general practitioners, allied health providers and spaces to suit a pharmacist, dietician, ophthalmologist or other specialist providers. In addition to clinical space there is room for retail services, a gymnasium for rehabilitation and physiotherapy work and a client kitchen.

Through the support of two Australian Federal Government grants, the CEW ensures convenience and accessibility of health services and expands the range of primary health services available in regional Australia. The CEW works towards increasing clinical education and training opportunities and developing models of research through interprofessional practice.

As part of this project significant modifications to the main entrance to Bathurst Campus were also carried out. A roundabout was installed to improve traffic flow, and entry and exit roads upgraded.

Gross floor area – 2,100sqm

Total cost – \$13m (part funded by two Australian Federal Government grants) and \$2m for new campus entrance works

Architect – Brewster Hjorth Architects

Builder – Joss Construction



New entrance roundabout



Bathurst Campus



HVAC upgrade – Building 1292

Scope

This project involved replacing existing water-sourced heat pump air-conditioning units on Building 1292 at Charles Sturt University in Bathurst. A building management system (BMS) was also installed to help better manage energy demand and usage in the building. The project has extended the life of the heating, ventilating and air conditioning (HVAC) equipment and made the building more energy efficient and environmentally friendly.

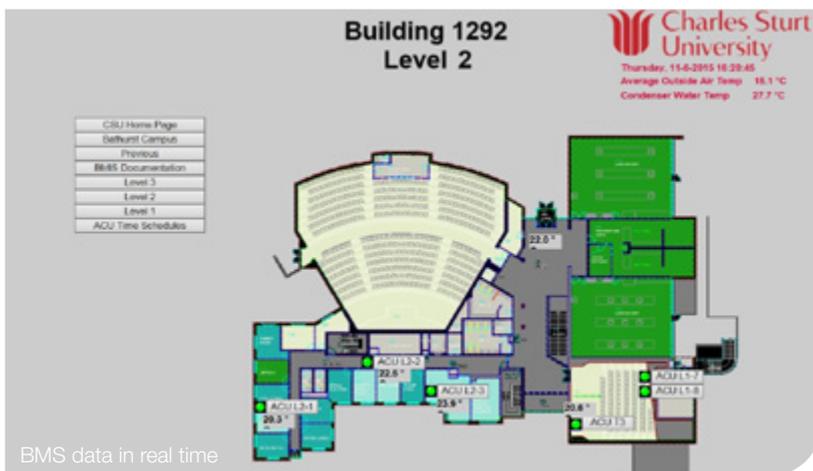
Total cost – \$716,000

Contractor – Chill Rite Refrigeration and Air Conditioning

Consultant – Echelon Consultancy and Training Pty Ltd

Sustainability features

The installation of the BMS provides control over the HVAC system, resulting in a reduction of energy usage in the building. The BMS also provides the flexibility to preheat and cool lecture rooms and other occupied spaces.





Bathroom upgrades – Towers residences

Scope

Transform 1970s-style bathrooms into modern facilities for student residents, boosting the on campus student experience. The bathroom upgrade follows a \$5 million investment into the Towers accommodation in 2013, which involved major renovations carried out in all bedrooms, kitchens, common areas and external grounds.

The bathroom refurbishment included installation of all-new facilities – showers, toilets and vanities – new floor and wall tiles and fresh paint throughout. Electrical and plumbing were upgraded and new extraction systems were installed.

Sustainability efforts are featured throughout this project, including dual-flush toilets, water-saving showerheads and installation of energy-efficient lighting.

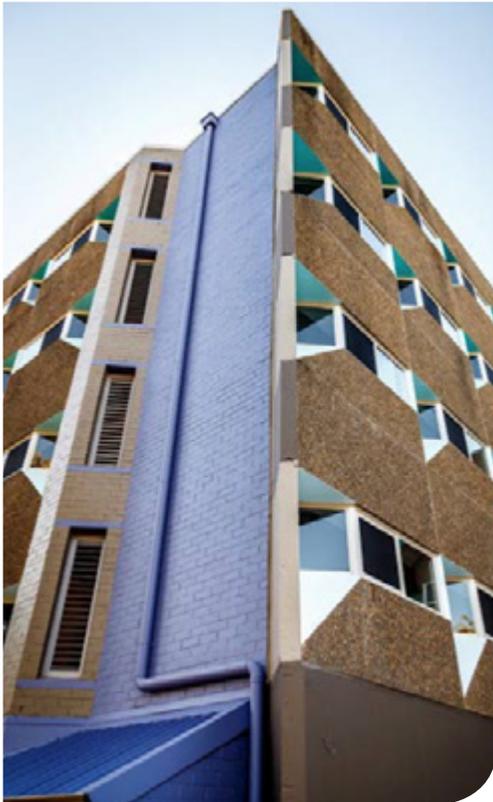
Overall, the upgrade provides a revitalised look and feel, improves comfort and safety for students and extends the life of the building.

Gross floor area – 500sqm

Total cost – \$650,000

Architect – Charles Sturt University

Builder – Davcon Construction Pty Ltd



Bathurst Campus



THE POWER OF CHANGE



Cogeneration facility

Scope

Charles Sturt University (CSU) moved towards a new generation of power to save money and the environment in 2014 with the installation and commissioning of a cogeneration facility at CSU in Bathurst.

Cogeneration is forecast to reduce Bathurst Campus's energy consumption by about 65 per cent and CSU's entire carbon footprint by about seven per cent. The switch to cogen energy, which was about four years in development, forms part of CSU's multifaceted strategy to improve energy efficiency and reduce greenhouse gas emissions across the institution's operations.

The Bathurst facility was officially launched by the Hon. Paul Toole, MP and Minister for Local Government, and CSU Vice-Chancellor Professor Andrew Vann in September 2014 (see image below).

Total cost – \$1.6m

Consultant – Clarke Energy

Sustainability features

The cogeneration system uses low emission fuel (natural gas) to power a large reciprocating engine. This energy then generates electricity for Bathurst Campus. A heat recovery process from the engine's cooling system and exhaust gases is also able to provide hot water for the campus. CSU estimates that after one year of operation, the cogen plant will save the University \$247,000 compared to power used from the electricity grid, and reduce greenhouse gas emissions entering the atmosphere by about 2,870 tonnes.





Creative Hub

Scope

The Creative Hub is a modernised, rejuvenated space that supports learning across all School of Communication and Creative Industries courses, with a particular focus on the first-year experience. The \$500,000 space features state-of-the-art multimedia equipment, individual sound and video booths, and collaborative spaces for workshops, mentoring and consultation, set against bright yellow, orange and green feature walls.

The renovation supports new course delivery methods and education environments as learning and teaching moves towards approaches that are more student-centred and allow for bring-your-own devices.

The hub was finished in February 2014, in time for use in the new academic year.

Total cost – \$538,000

Architects – Charles Sturt University

Builder – DSL Constructions

Architectural features

- bright colours to spark student creativity
- flexible learning spaces to encourage student collaboration
- space design supports new course delivery methods and learning environments
- ample powerpoints to support student-centred learning based around bring-your-own devices.



Bathurst Campus

Boundary fence upgrade

Scope

A new boundary fence stretching about 800 metres was installed along the front entrance of the Bathurst Campus in 2014.

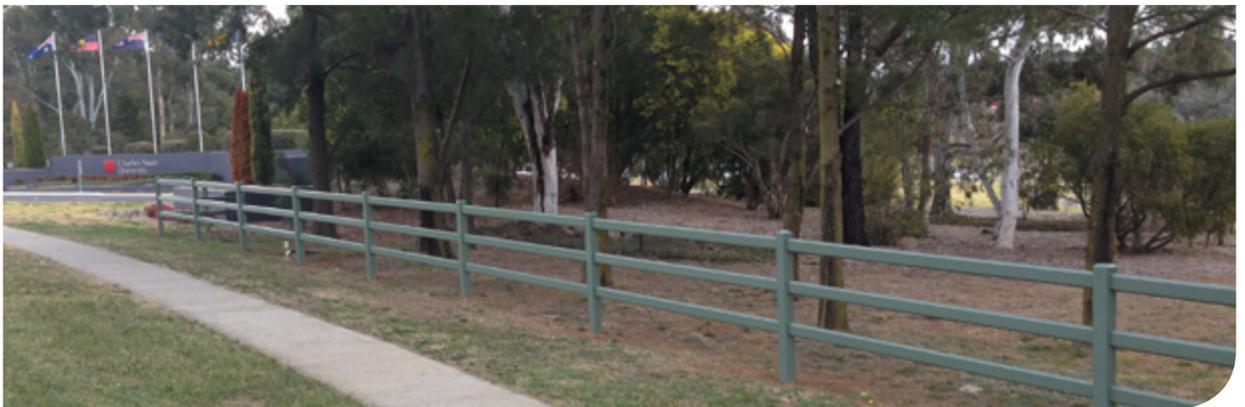
The new fence replaced a damaged, weathered fence and provides a revitalised and welcoming look to the front of the campus along Panorama Avenue. The new fence line clearly identifies the University's boundary and the chosen green colour scheme balances well against the natural surrounds.

The post and railing fencing is made from a powder-coated steel product designed for low maintenance and durability.

Gross floor area – 800 lineal metres

Total cost – \$120,000

Builder – Booth Fencing



Canberra Campus



Office refurbishment – Brisbane Avenue

Scope

The Brisbane Avenue office expands the University's footprint in Canberra by creating a hub to facilitate academia, teaching, research and partnerships. The location, adjacent to Charles Sturt University's (CSU) campus in Barton and within the parliamentary triangle, assists CSU staff foster key corporate and government affairs.

The leased office space accommodates two main University units, the Centre for Applied Philosophy and Public Ethics (CAPPE) and the Australian Graduate School of Policing and Security (AGSPS). Faculty of Education, Division of Library Services and Office of Corporate Affairs staff are also located here.

Brisbane Avenue offers individual office space for CSU academic staff, individual areas for postgraduate student mentoring, meeting rooms, video-conferencing facilities and shared / breakout rooms. On the ground floor is a dedicated seminar / teaching room for up to 40 people. In addition the building has full CSU branding, all technologies are integrated with CSU's information technology network, and the building has CCTV and CSU Cardex security system and dedicated car parking.

Brisbane Avenue was officially opened by the Federal Member for Education the Hon. Christopher Pyne, MP, on 22 July 2014.

Gross floor area – 1,250sqm

Total cost – \$1m

Consultants – Xact Project Consultants
SMI Group Pty Limited
Willemsen Group



Dubbo Campus



Office refurbishment - Building 903

Scope

This project upgraded an under-utilised existing demountable building to help alleviate work space shortages on the Dubbo Campus. The works provide a comfortable office and open-plan working environment for staff.

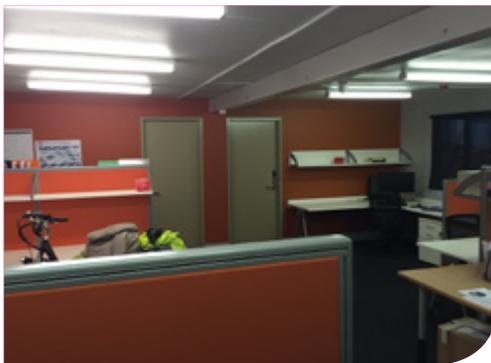
The office fit-out included installation of seven new workstations and construction of two new offices for staff. In the interior, new carpet was laid throughout, walls and ceiling were freshly painted, new power and data points installed for each workstation and new energy-saving lights were fitted. A timer-activated heating, ventilating, and air-conditioning (HVAC) unit was installed for year-round comfort for occupants. Access to the building was also improved with work carried out on exterior stairs and verandah.

Gross floor area – 82sqm

Total cost – \$113,000

Architect – Charles Sturt University

Builder – DSL Constructions Pty Ltd



Orange Campus



Student residences

Scope

This student residential development is the 'showcase' of future undergraduate and postgraduate student on campus living. The residences have been designed to provide an outstanding, vibrant living and learning student experience. Comprising four two-storey buildings, the new residential precinct features 99 beds (89 undergraduate and 10 postgraduate), administration office, recreational area and carparking. The site has also been fully landscaped for aesthetic external appeal, including courtyards and footpaths.

The administration area features common facilities including seminar room, storage area, entertainment rooms, communal and private study areas, offices, meeting rooms and kitchen and bathroom facilities. The buildings have been painted in varying colours and feature an array of different materials and finishes to add to the visual appeal of the precinct.

Overall, the project was designed and constructed to achieve the general intent of a Five Star Green Star Multi Unit Residential rating. Sustainability features include systems from rainwater and stormwater harvesting and installation of solar hot water systems.

Gross floor area – 3,285sqm

Total cost – \$10.6m

Project officer – Thinc Projects

Consultant – Leffler Simes Architects

Builder – Zauner Construction

Nexus to University Strategy

Charles Sturt University identified a need for additional student accommodation at Orange Campus as it aims to strengthen both the attraction and retention of undergraduate and postgraduate students to the University. This project works towards this goal and reinforces the University's aim to provide an outstanding student experience, provide vibrant campus life, encourage student engagement and learning in a collegiate environment and commitment to sustainability.



Orange Campus



Dental Clinic alterations

Scope

This project involved alterations to the existing Dentistry building, to provide extra comfort and practicality of the space for staff and students, and for convenient delivery and unloading of goods to the building.

New male and female change and locker rooms were installed; additional change rooms for staff were also included.

A covered anatomy unloading bay was built making it easier for the delivery of goods to the building. The structure defines a clear unloading area and provides a shelter from the weather. Construction of the unloading bay included ramps and the installation of protective screens.

In addition, one large staff office space inside the building was converted to three smaller offices. Alterations to the Head of School office area to provide space for executive / administrative staff was also carried out. This project was completed in March 2014.

Gross floor area – 1,400sqm

Total cost – \$672,000

Architects – Brewster Hjorth Architects

Builder – Hines Constructions



Port Macquarie Campus

New campus bottom right



Lake Innes permanent campus

Scope

Charles Sturt University (CSU) is building a new permanent campus in Port Macquarie on the New South Wales Mid-North Coast. The campus will be completed through a staged building program until 2030. In June 2014, CSU announced national construction company Watpac as head builder for stage one of the new campus. The \$42 million stage one design features teaching and research areas, including the Port Macquarie-Hasting Council's Food Soil Water Testing Centre, a large Learning Commons with library and separate Indigenous Student Centre.

Work on the multi-level stage one design was marked in August 2014 with a special ground-breaking ceremony on the Lake Innes site (see photo bottom left). By the end of 2014 work was well underway with site preparation works, external retaining walls and installation of underground services nearing completion. Concrete was also poured for two of the three levels (see construction photos left).

Construction of the new campus is due for completion in February 2016.

Take an online tour of the new Port Macquarie Campus by searching *CSU in Port Macquarie – a virtual tour* on the CSU Youtube channel: www.youtube.com/user/CharlesSturtUni

Gross floor area – 7,600sqm

Total cost – \$42m (\$18 million contribution from the Federal Government's Department of Industry, Innovation, Science, Research and Tertiary Education Investment fund)

Architects – BVN Donovan Hill

Builder – Watpac Constructions

Consultants – Taylor Thomson Whitting – Structural / Civil Engineers

Services and ESD – ARUP

Landscape Architects – Johnson Pilton Walker



Ground-breaking ceremony



Port Macquarie Campus



Munster Street

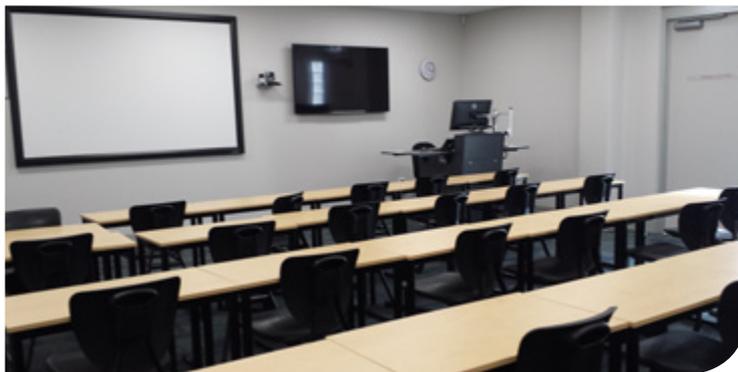
Scope

This project provided a second dedicated teaching space to accommodate students and expand Charles Sturt University's (CSU) course profile in Port Macquarie. The works converted an industrial building, which houses a church auditorium, into a contemporary learning space in Munster Street, Port Macquarie. The fit-out included three teaching spaces, suitable for 30 students each, two smaller classrooms, for up to 12 students, additional space for practice rooms plus office and storage space. The Munster Street location is equipped with two fully functioning medical imaging laboratories, each housing advanced x-ray equipment and image viewing stations. The campus also includes a small student common area complete with kitchenette, bathrooms and a number of designated parking spaces.

CSU has a five-year lease on the premises. The renovation was completed in February 2014 in time for the new academic session.

Gross floor area – 500sqm

Total cost – \$1.4m



Wagga Wagga Campus



Food Bowl refurbishment

Scope

This project provided a new dining experience for staff, students and visitors at one of Wagga Wagga Campus's most popular food halls. The refurbishment included upgrading the existing dining hall and cafeteria and adding a 100-person deck to the exterior of the building. The project changed the look and feel of the food hall, making it more accessible, social and practical for diners.

Gross floor area – 300sqm

Total cost – \$1.23m (contributions from Residence Life – \$240,000 and Student Services and Amenities Fee – \$250,000)

Architect – NBRS+Partners

Builder – Stephen Lawrence Construction

Consultant – Building Services Group



Architectural features

- stainless steel balustrading
- strategic placement/design of catering equipment and service areas for a more streamlined service
- honed concrete finish on outdoor area.

Sustainability features

- clear blinds on outdoor deck area to maximise natural light
- louvered paneling for natural ventilation to outdoor deck area
- twin walled polycarbonate sheeting in roof of outdoor area to increase natural lighting and provide protection from the elements.



Wagga Wagga Campus

Road improvements

Scope

Almost \$5 million was spent on new roads and road upgrades at Wagga Wagga Campus in 2014. The infrastructure projects have improved access on campus by providing safer, more direct routes. All projects are long-term investments and part of Charles Sturt University's (CSU) strategic plan to improve road infrastructure on campus.

Bangala Way and a link road connecting the main entrance round about to the CSU Winery were two new roads built. Bangala Way is a 500-metre long road running through the centre of campus, and helps improve access to the campus residential hub (read more about the new multi-million-dollar student residences at CSU in Wagga Wagga on page 23).

The new winery road provides important links to teaching, research and business. The road connects the main entrance to CSU's National Wine and Grape Industry Centre and CSU's Cellar Door.

Additionally, major upgrade work was carried out on Agriculture Avenue, a 1.3 kilometre stretch of road on the western side of the Wagga Wagga Campus. Works to transform this aged and tired road included major earthworks and a complete bitumen reseal. Agriculture Avenue connects to important facilities including the Willett Veterinary Clinical Centre, the Riverina Regional Equestrian Centre and CSU farms.

Resealing of a number of existing roads and carparks on campus was also completed in 2014.

Total cost – \$4.7m

Sustainability features

Sustainability was a key factor in the creation of many of these projects with dedicated pedestrian and cycle paths included. Agriculture Avenue also has a dedicated animal pathway.



Agriculture Avenue



Winery link road



Student residences

Scope

This project works towards Charles Sturt University's aim of providing outstanding student facilities and promotion of a vibrant student lifestyle. The student residential development comprises of 152 residential beds (116 undergraduate and 36 postgraduate), an administration area, recreational spaces including home theatre room, student / residential adviser meeting rooms, communal and private study areas, barbecue area, plus carparking and landscaping. Postgraduate rooms have been designed for the specific needs of higher degree by research students and visiting academics. These rooms are spacious and fully-equipped with services, such as kitchen, ensuite, lounge and WiFi. Construction was completed in February 2014 and students moved in soon after.

Gross floor area – 5,400sqm

Total cost – \$17.7m

Project Officer – Thinc Projects

Architects – Leffler Simes Architects

Builder – Zauner Construction

Architectural features

The design of the accommodation features six two-storey buildings built around a central, grassed courtyard for student socialising and beautification of the area. Administration and common facilities have been designed and built for practicality. There are varying colour schemes, materials and finishes used throughout the buildings to ensure an environment that provides outstanding student experiences and promotes the vibrancy of student living.

Sustainability features

The building was designed and constructed to achieve environmentally sustainable design principles and the general intent of a five star equivalent Green Star Multi Unit Residential Rating. Additional sustainability features include rainwater / stormwater harvesting and solar hot water system.



Wagga Wagga Campus



Wayfinding – Learning Commons

Scope

This project aimed to improve the wayfinding and aesthetic appeal of Building 13 at Charles Sturt University in Wagga Wagga. Building 13 is one of the more popular buildings on campus, with a number of University services housed here, including Student Central, library and numerous study and teaching spaces. The building was given a vibrant makeover with bright colours, funky graphics and easy-to-follow directional signage applied throughout the four-storey building. The new look is part of a University-wide wayfinding and signage improvement plan.

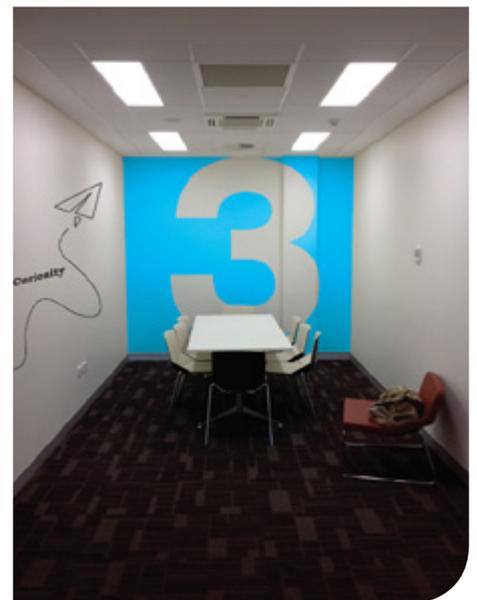
Total cost – \$138,000

Designer – Joel Spencer Designs

Builder – Littlewood Signs

Architectural features

Large, easy-to-read graphics were applied in visible locations, making it easier for people to move and navigate through the four-storey building. Separate colours were also used to easily differentiate between areas.





School of Biomedical Sciences office accommodation

Scope

This two-storey building is a modern design combining bricks, glass and steel materials. Situated on the north side of the Wagga Wagga Campus, the School of Biomedical Sciences office accommodation block complements the multi-million dollar National Life Sciences Hub, located in the same precinct. The office space accommodates about 80 staff from the School of Biomedical Sciences, School of Animal and Veterinary Sciences and School of Agricultural and Wine Sciences. The interior office design, based on staff feedback prior to construction, includes collegiate spaces for formal and informal meetings, open plan and reconfigurable seating areas for research collaboration and individual offices.

Gross floor area – 1,550sqm

Total cost – \$7.5m

Project Officer – Thinc Projects

Architects – Woods Bagot

Builder – Zauner Construction

Consultants – Murchie Consulting – Service Engineers
Meinhardt – Structural Engineers

Architectural features

This building is a nod to Wagga Wagga's rich history of brick production and the use of bricks in many notably buildings in the city, such as the Wagga Wagga Courthouse and former police station. When designing the building, detailed research was conducted for the functionality, orientation on campus, solar and wind impacts and pedestrian flow. There is a large outdoor, predominantly covered, entry and foyer that creates a welcoming entry point for users and visitors.

Sustainability features

Energy-efficient initiatives, rainwater harvesting and a Four Star Green Star rating contribute to the overall sustainable building design.



Wagga Wagga Campus

Dental Clinic change rooms

Scope

Installation of male and female change rooms in Building 30 for School of Dentistry and Health Sciences student use when undertaking practical lessons and to meet accreditation compliance. The change rooms feature shower facilities for 'end of trip' hygiene and were designed to keep with the original theme of the Dentistry and Health Sciences building, built in 2009. Existing rooms on the ground floor of Building 30 were modified to make way for the change rooms. Some materials salvaged from the re-design were recycled and incorporated in the construction of the change rooms. As well as being practical, the change rooms aim to improve the University experience for students.

Gross floor area – 100sqm

Total cost – \$295,000

Architects – Brewster Hjorth

Builder – SMI Constructions





Early Learning and Nurture Centre

Scope

The Early Learning and Nurture Centre is a long-stay preschool aimed at nurturing young minds in an environment that is both practical and creative. The \$4 million design incorporates five purpose-built classrooms each tailored to different age groups. There are two nurseries for zero to two-year-olds, two toddler rooms for two and three-year-olds, with three to five-year-olds cared for in the preschool play area. The modern design maximises the functionality needed in a childcare centre, and is compliant with current and emerging learning centre principles and requirements.

In addition to this project, a significant upgrade to the University's fire hydrant and pump infrastructure was required to meet current Australian standards. The pump services the Early Learning and Nurture Centre and the Charles Sturt University Winery.

Gross floor area – 850sqm

Total cost – \$4m and \$615,000 for hydrant upgrades

Architects – NBRSPartners

Builder – ICG Construction Group

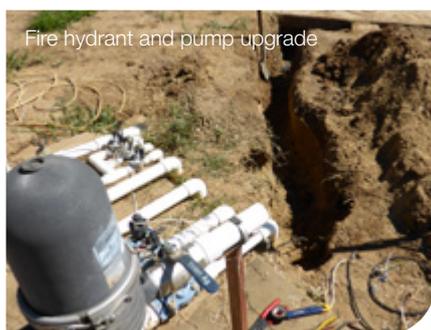
Consultant – Building Services Group

Architectural features

The centre was created with learning and safety in mind. Sensory equipment features in the inside and outside areas and soft fall coverings have been laid in all outdoor play areas. Gardens have been established for educational purposes. There are also dedicated car parking and drop-off facilities for parents.

Sustainability features

Bringing the outside in was a key feature in the design of the centre. All main classrooms face outdoor play areas to maximise natural light and most rooms have access to natural ventilation. Energy efficient appliances, fixtures and fittings have been installed throughout the centre and daylight sensors help reduce lighting when sunlight is available. The building design benchmarks a Five Star Green Star rating.



Fire hydrant and pump upgrade



Wangaratta



Regional Study Centre

Scope

This project is a joint venture between Charles Sturt University (CSU) and Goulburn Ovens Institute of TAFE (GOTAFE) aimed at providing world-class tertiary opportunities for regional students.

The \$7 million centre features state-of-the-art teaching seminar rooms with interactive video teaching capabilities, a 40-student chemistry laboratory, a student learning commons and information technology space.

As well as providing opportunities for regional students, the shared facility also works towards building sustainable regional institutions and communities.

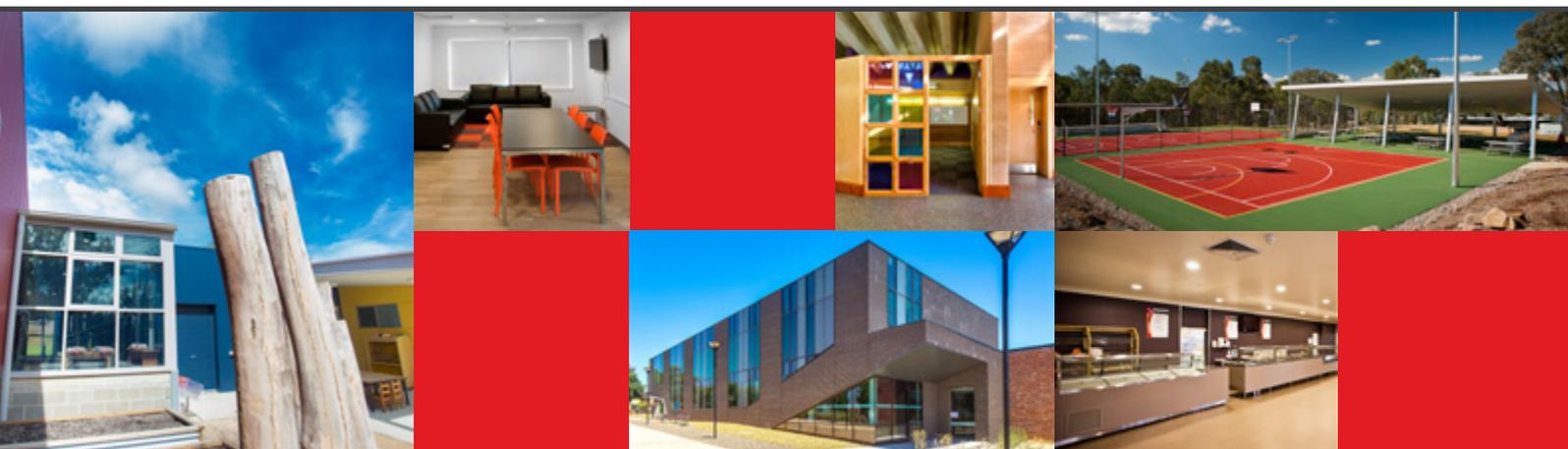
The Regional Study Centre was officially opened by The Nationals Senator for Victoria, Bridget McKenzie, CSU Vice-Chancellor Professor Andrew Vann and GOTAFE Chief Executive Officer Paul Culpin in May 2015.

Total cost – \$7.2m (funded by the Commonwealth Government's Structural Adjustment Fund)

Architects – Brewster Hjorth

Builder – Joss Constructions





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