

SUSTAINABILITY IN EDUCATION

The Shirley Smith High School will provide high-quality general and specialist education for 800 students from years 7 to 10. The project features indoor and outdoor learning areas, integrated spaces to support the individual needs of all students, state-of-the-art multi-purpose hall, gym with two basketball courts, covered hard courts suitable for basketball and netball, and a soccer/rugby oval.

Backed by over 160 years of success, Icon Construction has an unrivaled capability and capacity to deliver high quality construction projects across a diversity of sectors.

Icon won the contract to manage the Design and Construction of Shirley Smith High School (previously East Gungahlin High School), centrally located in the east Gungahlin suburb of Kenny, and worked with SQC architecture during the construction phase of the project to deliver the exceptional education facility.

Shirley Smith High School will provide high-quality general and specialist learning areas, incorporating both indoor and outdoor

learning environments, as well as integrated spaces to support students with specialised needs.

The diverse facilities allow students to engage in a wide range of subjects including woodwork, metal work, digital arts and technologies, food technology, performing arts (music, dance, drama), english, science and maths.

The high school will also offer facilities for community use outside of school hours. These include a double gymnasium with basketball, netball, futsal and volleyball markings, covered hard court suitable for basketball and netball and the oval can be used for soccer, rugby union

and rugby league games. The multipurpose hall will also be available for community use.

The new school caters for 800 students from Years 7 to 10 with room for temporary expansion to accommodate additional students. Covering 8,500m² and reaching 1-2-storeys, most of the buildings have been constructed from structural concrete.

The design was master planned by award-winning Canberra architecture firm CK Architecture, and maximises the site's east-west axis to ensure all internal spaces receive natural light as well as ease of access to external learning environments. "The overall aesthetic of the building is incredibly distinctive and appealing," said Icon Graduate, Max Beaumont.

"One of the highlights of this project is the incorporation of the school and the surrounding landscape," explained, Max. "The school responds to the strong cultural significance of the region. It connects to the nearby parks and nature reserves with colourways, native planting, bush tucker community gardens and a quoll garden."

Icon presented the plans that incorporate efficient building envelope elements, fully electric energy efficient plant equipment, a large Photovoltaic cell array and no greenhouse gas use site, consistent with the ACT government's commitment to take action on climate change. The buildings use sustainable materials, air permeability membranes and includes a solar power generation system.

As a result, the school will have zero emissions in its operations.

Icon is a fully diversified Commercial Builder and construction services provider, offering complex construction capability across all sectors in Australia and New Zealand. Their capability and experience provides clients with specialist expertise, value-add solutions and high-quality out-comes.

Innovation combined with financial and technical strength enable Icon to develop entrepreneurial solutions – all whilst minimising risk in terms of safety, certainty and commercials.

"Our high performing team of over 800 skilled, experienced professionals act together to create possibilities with our partners, earn success in delivery and live quality in every way," said Max. "Together, we are a team who stands for what we build. And a business that will stand the test of time."

For more information contact Icon Construction ACT, Suite 1, Level 1, 1 Hobart Place, Canberra City ACT 2601, phone 02 6140 3277, email canberra@icon.co, website icon.co



Below Ellwood Detail Joinery (EDJ) crafted bespoke joinery for East Gungahlin High School, showcasing precision, collaboration, and enduring partnerships.

Below Austral Air Conditioning completed the HVAC engineering for Shirley Smith High School, introducing innovative fabric ductwork for optimal climate control.



Ellwood Detail Joinery (EDJ) was responsible for all the custom joinery for the Shirley Smith High School (previously East Gungahlin High School) project, which included joinery for the reception, kitchen and breakout areas, and some teaching and learning spaces, bench seating and display cabinets.

“Every project brings its own set of challenges,” said Director, Matthew Ellwood. “However we overcome them by collaborating closely with the builder and architects. The team at EDJ is adept at finding solutions and ensuring that designs seamlessly translate to on-site conditions. The result is precision-crafted joinery that fits perfectly.”

EDJ’s philosophy revolves around building enduring partnerships. The company primarily works with a select group of builders and developers, fostering long-term relationships that are built on trust, reliability and exceptional service. This dedication has allowed EDJ to maintain relationships with some of its partners for over two decades.

Over the years, EDJ has garnered extensive experience in various sectors, including hotels, hospitals, schools, retail and hospitality fit-outs, along with some residential projects. Their versatility and

commitment to excellence have earned them a reputation as a go-to joinery for Tier 1 clients. The company’s journey from a commitment to quality to becoming a leader in large-scale fit-outs is a testament to their dedication, innovation and unwavering commitment to excellence.

“At EDJ, our greatest asset is our staff,” said Matthew. “We place a high priority on our employees, investing in their growth and well-being. Additionally, EDJ stays at the cutting edge of the industry by consistently investing in technology and equipment, ensuring we deliver top-notch craftsmanship and efficiency.”

EDJ’s primary focus remains on the Australian Capital Territory and its surrounding regions. This commitment to the local area reinforces their dedication to delivering exceptional service to their immediate community.

For more information contact Ellwood Detail Joinery, 42 Silva Avenue, Queanbeyan NSW 2620, phone 0408 667 747

A leader in HVAC engineering, construction and maintenance services, Austral Air Conditioning was the ideal partner for the supply, installation and commissioning of air conditioning and ventilation systems which met the design intent and requirements for the new Shirley Smith High School (previously East Gungahlin High School).

“We used specialised fabric ductwork on the project which is one of the first in Australia to be installed,” said General Manager, Sumen Pillay. “This particular fabric duct can automatically adjust the airflow depending on whether the air conditioning system is heating or cooling in order to provide comfort to occupants all year round.”

“A lot of design work was placed into this segment of work due to the height of the gym and the need to deliver comfort to the players and spectators at low level seating,” said Sumen. “Based on CFD modelling we carried out, this was the best solution for this application.”

One of the challenges of this project was installing within tight ceiling spaces that contain other building elements and services.

“During the design phase, we reviewed and coordinated our plans

with the structural plans, architectural plans and plans from other services to minimise the number of clashes during the installation,” said Sumen.

In order to expedite the installation time on site, Austral Air used large ductwork modules consisting of 3 or 4 individual ductwork pieces that were pre-assembled in their suppliers’ warehouse, then delivered to site. Each module was constructed with ease of site installation in mind. Lifting lugs and wheels were installed to allow a crane to lift the units and increase the modules to maneuverability across the floor. Once the sections have been installed the wheels are removed.

“It’s a great pleasure working with the ICON team onsite as they have created a team environment amongst all the contractors which has allowed the coordination process for the project to flow smoothly,” said Sumen.

For more information contact Austral Air Conditioning, 56A Myoora Road, Terrey Hills NSW 2084, phone 02 9999 6644, email reception@australaircon.com.au, website www.australaircon.com.au

Below G&H Civil Contractors efficiently completed Shirley Smith High School's stormwater requirements with expertise and environmentally conscious practices.

Below Master Carpets supplied and installed diverse flooring solutions for East Gungahlin High School, including carpet, vinyl, rubber, and tactiles.



G&H Civil Contractors is dedicated to producing quality civil construction works for the commercial, industrial, mining and infrastructure sectors, offering clients the innovative processes brought about through years of expertise in equipment, resources and technology required to complete even the toughest construction project.

G&H Civil Contractors were awarded the storm water brief for Shirley Smith High School (previously East Gungahlin High School) and commenced on-site in January 2022, finishing the project in September 2023. "The project was very straightforward," said Project Manager, Edel Waters. "There were no real challenges with the job."

G&H Civil Contractors' demolition team offers large-scale industrial deconstruction and decommissioning for applications like mine sites, bulk ports, power stations, quarries, oil and gas rigs, and storage facilities. Experienced in high risk, structural demolition, G&H Civil Contractors are equipped with a strong knowledge of engineering, simulated modelling techniques and complex heavy lifting solutions.

"We have clever solutions for the dismantling of stackers, conveyors, chimney stacks, tower structures, and silos," said Edel.

"Our demolition team can deconstruct retail complexes and high density precincts and work on structural modifications, strip outs, and heritage works.

"If certain areas of a building need to be protected, we'll complete partial demolition. Using strict traffic management and controlling emissions, noise, and vibration, we work to minimise any interruptions to commercial business and nearby residents."

G&H Civil Contractors are committed to protecting and preserving the environment, creating and delivering solutions to worksites for the recycling of their waste at recycling plants. Waste materials can be recycled to make aggregate, select fill, road base, or structural fill in off-site facilities. Plants for crushing or screening are deployed to produce premium concrete. Mobile pugmills can be brought on-site to produce specifically blended wet mix and cement treated materials.

For more information contact G&H Civil Contractors, 66-68 Union Circuit, Yatala QLD 4207, phone 07 3382 7598, email admin@gandh.com.au, website www.gandh.com.au

Master Carpets is one of Australia's leading commercial flooring contractors with over 40 years experience in the supply and installation of quality carpet and resilient flooring.

Their broad spectrum of flooring options are high performing, well designed and sourced from environmentally responsible manufacturers.

Master Carpets was awarded the contract for Shirley Smith High School (previously East Gungahlin High School) to supply and install the carpet, vinyl, rubber, tactiles, stair nosings, entry matting, sealed concrete and minor floor preparation – totalling a staggering 11,000m².

"In the initial stages we coordinated two carpet crews, a floor prep crew and multiple vinyl crews, alternating as each room became available," said Master Carpets. "In the final push, all teams were on the ground to get the job done within a tight timeframe."

One of the standout features of Master Carpets is their streamlined processes, which offer clients a single point of contact throughout the project. This approach simplifies communication and ensures that each aspect of the project, from project inception to completion is expertly managed.

Ally Kearsley was the dedicated Project Manager for this project and has overseen each stage from the estimation of the project to the site management of the install.

"This was our first time working with ICON and they provided a great site experience," said Ally. "The project scale was significant, but the ease of coordination and cooperation between trades and the ICON site management team made it a genuinely enjoyable endeavour."

Master Carpets primarily focuses on the ACT region, with a sister company located in Sydney. However, they have also ventured into international projects, working on several DFAT locations within the Pacific Islands for Manteena.

In 2022, Master Carpets were finalists in the ACT Master Builders Awards for 'Best use of a material in a commercial project' for the National Museum of Australia.

For more information contact Master Carpets, 11-13 Tralee Street, Hume ACT 2620, phone 02 6260 2940, email enquiries@mastercarpet.com.au, website www.mastercarpets.net.au

Shirley Smith High School (previously East Gungahlin High School),
Australian Capital Territory

