

A SUSTAINABLE SPLASH

DEVELOPER : Lane Cove Council
MAIN CONSTRUCTION COMPANY : Icon
ARCHITECT : Team2 Architects
STRUCTURAL ENGINEER : ACOR Consultants
CONSTRUCTION VALUE : \$11.2 million



The Lane Cove Aquatic Centre redevelopment features a new eight-lane 50m pool with a unique divider to segment the pool for a range of activities. The 800 seat grandstand, houses a range of amenities including changing rooms, with solar panels, and energy efficient lighting.

Icon are considered one of the most diverse construction companies in Australia and New Zealand with the capability of delivering a range of projects from sub \$10 million up to \$400 million. Icon are no longer considered a multi-level residential builder with recent D&C projects being delivered in the commercial, hotel, health, education, defence, pharmaceutical, sports and leisure sectors across the country.

A recent project demonstrating Icon's range of capabilities is the Lane Cove Aquatic Centre redevelopment, a \$11.2 million project for Lane Cove Council to provide a new 50m outdoor swimming pool, concourse and modern 800 seat grandstand. The new heated pool has a fibreglass swim wall that can be raised to separate the pool for different uses. The main grandstand contains offices, timekeepers room for carnivals, youth center equipped with kitchen and amenities including changing room and outdoor showers.

Lane Cove Council's sustainability targets led to the installation of a range of energy saving features including: a 59.13kW solar panel system fitted to the grandstand, marshalling area, roofs and LED

lighting using the Dali system which uses sensors for increased energy efficiency.

A pool blanket was also installed to help retain heat and reduce evaporation, as well as water saving devices for all taps and toilets, a 20,000 litre rainwater tank to provide irrigation to the oval next door and a condensing boiler which uses gas and is 92% efficient as it reuses heat from the flue and the boiler.

The project also has a number of accessibility features including an accessible ramp into the water in the 50m pool, accessible toilets and a brand new accessible changing facility equipped with adult change table, hoist and shower to cater to people with high support needs.

Onsite work started in October 2019 with Icon taking over a novated contract to finish the outdoor pool, construct the concourse, plant room, grandstand marshalling area and basketball court.

The necessary logistics for constructing an in ground swimming pool created challenges moving around the site. After curing and filling the

pool, the walls must be visible to check for leaks with an exclusion zone constructed around the pool for this purpose.

A major effect on the job involved dealing with COVID-19 restrictions. Icon introduced designated separate working areas and staggered break times to ensure a minimum number of workers in one place at a time. With up to 60 onsite workers during peak periods the new 50m pool and amenities were ready for the official opening in October 2020 with guest Ian Thorpe.

Icon have extensive experience in delivering sporting and aquatic facilities including the \$23 million Ruth Everess Aquatic Centre, \$43 million East Kellor Leisure Centre Redevelopment and \$50 million Camberwell Grammar School Sports facility. Icon have also worked on some of the Australia's leading sporting facilities including the MCG, Cricket Australia Centre of Excellence Junction Oval, and the WA Institute of Sport.

Established over 150 years ago Icon is today one of Australia and New Zealand's largest building contractors and are highly regarded as a genuine alternative to the traditional tier 1 builder offering across Australasia. Icon has one of the strongest balance sheets in the Australian construction industry and have the financial capability to deliver large scale projects across a variety of sectors

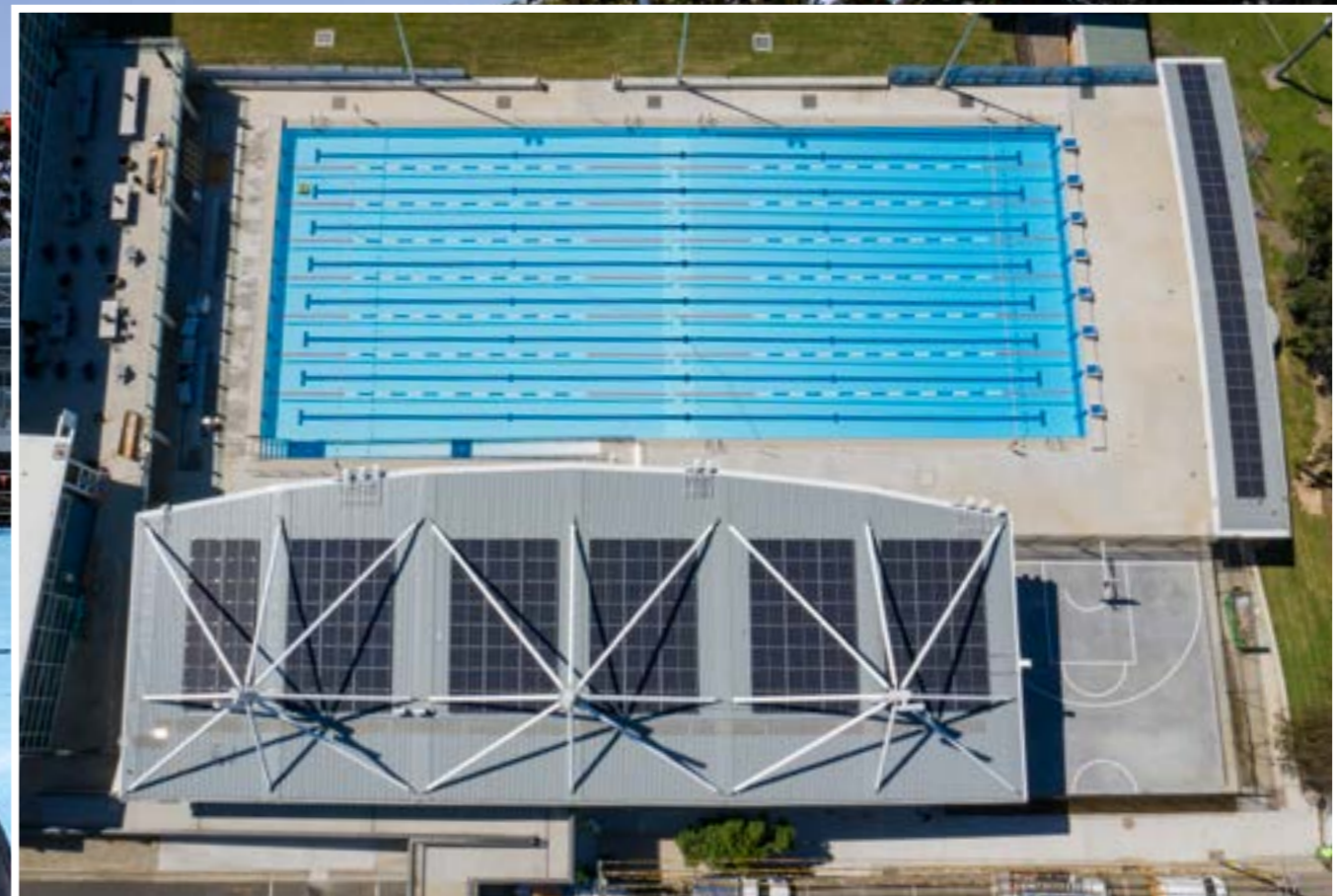


Icon have also experienced substantial growth in government infrastructure sectors such as education, health and defence, which includes the recent signing of their first Australian Defence project in Vanuatu. Icon expect considerable spending in these sectors and have geared up across the country to service these specific market demands.

For more information contact Icon, Level 2, 179 New South Head Road, Edgecliff NSW 2027, phone 02 8456 6500, email info.nsw@icon.co, website www.icon.co

Below Full Scope Electrical Services completed the D&C contract for the communication and electrical systems.

Below Harvey Norman Commercial installed 59.13kW solar panels and utilised Enphase micro-inverter solar system technology.



Full Scope Electrical Services (FSES) offer a complete service that includes the installation of electrical, data and communications, security and dry fire systems. In September 2019, FSES were awarded the D&C contract for the electrical services package at Lane Cove Aquatic Centre, which included electrical, communications, dry fire, public address and hearing loop.

Onsite work started in December 2019 with the company working on early works for the grandstand and youth centre. The team installed a multitude of services, including mains upgrade and automated lighting control system, as well as general and emergency egress lighting. FSES also installed the communications systems, an AV package, a public address system, CCTV and a hearing loop.

“It was our first project with Icon, they were fantastic to work with and were always helpful. We are looking forward to many future projects with them,” said Project Manager, Luke Usherwood. “Due to the difficult times brought on by COVID-19 restrictions, lead times on imported items became a sticking point. We offered alternate solutions to ensure programme was maintained, and performance and expectation was exceeded.”

Based in Western Sydney, FSES serve greater Sydney and beyond with electrical installations across the commercial construction, fitout, health and education sectors. FSES has years of experience providing a D&C service that starts at tender submission and includes drafting, design coordination and project management.

Although 2020 was a tough year across many industries, Full Scope was able to maintain its trajectory and work on some fantastic projects. Some of the notable projects, in which they completed end-to-end electrical systems are: St Agnes Catholic College, Kuring-Gai High School, Mx Dome and St Andrews Chapter House – Performance Hall.

Full Scope were delighted to be part of the fantastic project, while collaborating with Icon and Lane Cove Council, and look forward to seeing the facility give back to the local residents for many years to come.

For more information contact Full Scope Electrical Services, 27/10 John Hines Avenue, Minchinbury NSW 2770, phone 02 9677 0037, email admin@fses.net.au, website www.fullscopeelectrical.com.au

Harvey Norman Commercial (HNC) has a highly professional and experienced EPC Solar team offering solar power installations as well as total energy management solutions.

In June 2020, Icon contracted HNC for the design, engineering and installation of a 59.13kW solar system for the Lane Cove Aquatic Centre. The grandstand and marshalling area roof were chosen as the place for the solar panels but it was shaded by pillars.

Most solar systems require full sun and their ability to perform is reduced by shade, HNC solved this by using Enphase micro-inverter solar system technology. This was one of the first commercial sites using Enphase technology that integrates two separate solar arrays into one system.

“A stable internet connection is critical for Enphase system’s production and monitoring. We chose RFI’s Duomax MA 2055 4G modem and their custom made CSM500 extension antenna kit to increase 4G reception which is working very well. Harvey Norman Commercial also supplied all bathroom fixtures and washroom products throughout the Aquatic centre,” said Solar Operation Manager, Phoebe Linne.

Operating for over 25 years, Harvey Norman Commercial Division is a trade only business offering the building, hospitality and educational fields a comprehensive range of packages and solutions. Their four state-of-the-art showrooms are specifically designed to cater to architects, developers, builders, plumbers and designers. With an outstanding pedigree and reliable reputation, HNC take pride in their ability to deliver consistent customer satisfaction. They have the financial capacity to satisfy client requirements from medium density living to multi-million dollar projects.

“Icon and the Lane Cove Council are not only our customers but great partners in making this project a success. We worked hand in hand on site and together we exceeded everyone’s expectations. Thank you for the opportunity to be part of such a unique project which adds so much value to the Lane Cove Community.”

For more information contact Harvey Norman Commercial, 15-21 Atkinson Road, Taren Point NSW 2229, phone 02 4322 1522, website www.harveynormancommercial.com.au

Lane Cove Aquatic Centre, New South Wales

