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Photo: Manuka Oval Media and Broadcast Centre, ACT, Kane Constructions (Photo by Evolve Timelapse)



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ACT PROJECT FEATURE MANUKA OVAL MEDIA AND FUNCTION CENTRE

Kane Constructions / Canberra

Image supplied by Evolve Timelapse



HITTING FOR SIX

DEVELOPER : ACT Government

MAIN CONSTRUCTION COMPANY : Kane Constructions

ARCHITECT : Populous

CONSTRUCTION VALUE : \$14 million



Images supplied by Evolve Timelapse

The Manuka Oval Media and Function Centre is a state-of-the-art four level, multi-purpose media and broadcast facility that meets the International Cricket Council's media standards for hosting international test match cricket and provides a functional hospitality space for AFL fixtures. The project includes covered outdoor seating, commercial kitchen, service bars on levels one to three and world class media space inclusive of TV commentary, radio suites and TV studios.

The Manuka Oval Media and Function Centre is a four level, 1,500m² media and broadcasting facility with multi-purpose capabilities designed to meet the International Cricket Council's media standards for hosting International Test Match Cricket, with further capabilities of covering the four annual AFL fixtures during the year.

The ACT Government awarded Manuka Oval Media and Function Centre to Kane Constructions at the end of 2017. Kane Constructions had eight staff members and over 100 subcontractors working on this project. Commencing construction in February 2018 with the project reaching completion in time for the first ever International Test Match to be held at Manuka Oval on 1st February 2019.

Kane Constructions worked with Populous to make necessary design adjustments to suit the requirements of the facility. The scope of works involved the construction of a four storey building including

bar and kitchen support facilities, indoor corporate seating and function space, as well as the addition of covered outdoor seating. The biggest design element of the project was the cantilevered structure which protrudes towards the oval.

The use of a hollow core slab system was adopted. This innovative technique has added advantages over conventional concrete manufacture, allows for rapid construction, flexibility in design and durability while still being light weight. For the façade, extruded aluminum cladding was used as the main cladding whilst the south, east and west elevations were wrapped in curved anodized aluminum battens. The addition of full height structurally glazed windows were utilised on the northern elevation to maximise the viewing experience.

The building supports both cricket and AFL. Areas of the floor have the ability to be reconfigured and room layouts to be adjusted. Many aspects of the building were designed with multiple purposes

in mind, allowing the building to be modified to suit different events throughout the year. The radio room can be converted into fully functional corporate boxes during the AFL season.

Taking into account both the scale and complex design elements of the project, numerous challenges arose. In working collaboratively with all project stakeholders, Kane Constructions successfully applied both their expertise and design coordination processes to achieve optimal project outcomes.

In order to meet both the International Cricket Council and AFL Guidelines, space requirements were a key focus during the design phase. The multi-purpose design of the building presented challenges, however, in applying a high level of attention to detail, Kane Constructions were able to fitout the building with an innovative and adaptable approach.

All stakeholders were extremely pleased with the final project outcome. "It has been a pleasure working with the ACT Government on the construction of this world-class facility. The new Media and Function Centre will be heavily utilised for years to come. Thank you to all stakeholders, subcontractors, suppliers and consultants for your efforts," said Jon Anastosov, General Manager ACT from Kane Constructions.



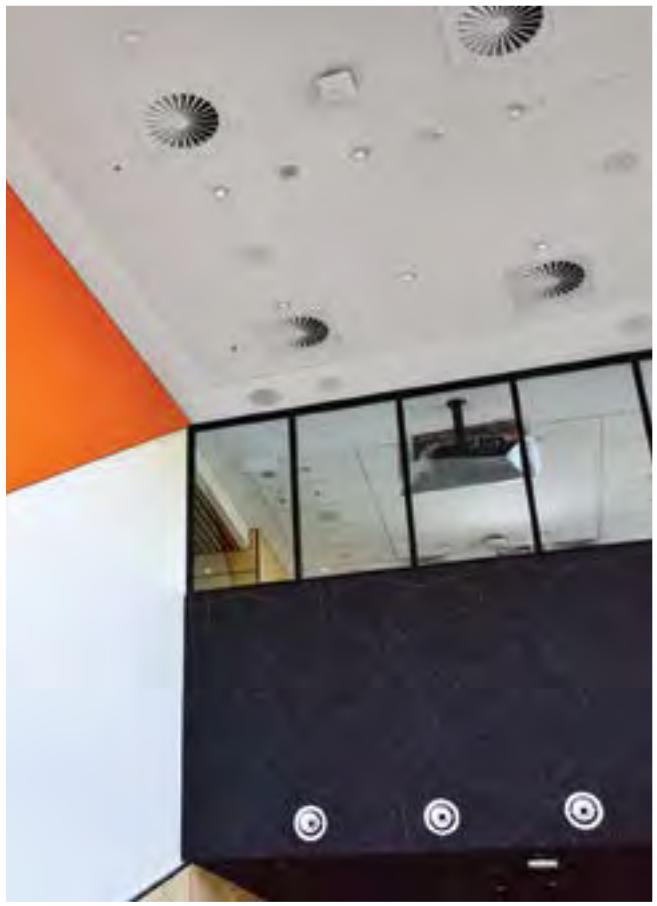
Kane Constructions is a multi-award winning, privately owned construction company with an annual turnover in excess of \$800 million. With over 450 full time employees, Kane has offices in Melbourne, Sydney, Brisbane and Canberra.

Kane are currently delivering a range of projects nationally, including the \$36 million Stromlo Leisure Centre at Stromlo Forest Park, Australian Capital Territory, \$75 million Cabrini Health Gandel Wing in Malvern, Victoria, \$20 million Hume Apartments in Crows Nest, New South Wales and the \$35 million Springfield Health City One project in Springfield, Queensland.

For more information contact Kane Constructions, Level 1/24 Bougainville Street, Manuka ACT 2603, phone 02 6203 4200, email actcontact@kane.com.au, website www.kane.com.au

Below Canberra Mechanical Services designed the complete climate management, installing a Daikin VRV system on the project.

Below JCL Electrics provided a complete electrical system package for the Manuka Oval Media and Function Centre.



Canberra Mechanical Services (CMS) is an expert in thermal management, going beyond a focus on air conditioning. Employing the latest in thermal management technology, they aim to provide total climate control solutions for clients in both the domestic and commercial markets.

Director, Chris Wilson said that new technology in the climate control industry was constantly emerging and CMS was committed to being at the forefront of the new technology. “We have established an Research and Development section to integrate the new developments into the systems that we install for our clients. The Research and Development team worked out a system to integrate smart thermostats into inverter based ducted split and high wall split systems. This means clients can benefit from all the advanced functions of smart thermostats whilst gaining energy savings that the inverter technology provides.”

The work by CMS at the Manuka Oval Media Centre illustrates their skill in designing and installing an integrated total thermal management system. The company installed a Daikin VRV system ensuring the Centre enjoyed a climate management solution optimising comfort and control whilst delivering significant energy efficiencies. This was coupled with an Armcor DX heat exchange outdoor air processing

unit which has high energy efficiency values to maximise savings and minimise environmental impact.

Chris said the project required careful planning as there were high quality finishes in the building including exposed timber ceilings and other architectural elements that had to be incorporated into their design. “Our experienced team of nine employees were onsite from March to November 2018 and we completed the project in a timely and efficient manner.”

As well as providing design and installation services, CMS also undertakes air conditioning repair services, utilising their knowledge and experience of working with all major brands so that they can quickly assess problems and restore systems to full working order.

For more information contact Canberra Mechanical Services, 1A Shropshire Street, Queanbeyan East NSW 2620, phone 02 6284 4221, email admin@cmservices.net.au, website www.cmservices.net.au

JCL Electrics Pty Ltd is an electrical and communications installation contracting company with a proven track record committed to the local business community with a reputation of providing competitive pricing, performance, quality and ability to deliver projects on time and on budget.

Established in 1986, John Castrucci, Founder and Managing Director began operating in the Australian Capital Territory and surrounding region providing service for both commercial and residential projects. The company have 35 staff including in-house designers and draftsmen which enable them to provide an end-to-end solutions.

JCL Electrics were contracted to provide the entire electrical system for the Manuka Oval Media and Function Centre located in Canberra. The company worked closely with Kane Constructions and Venues Canberra to deliver a comprehensive building with a vast range of electrical systems. To ensure complete integration of all requirements both technically and visually were achieved, a considerable level of collaboration was undertaken to produce stunning results.

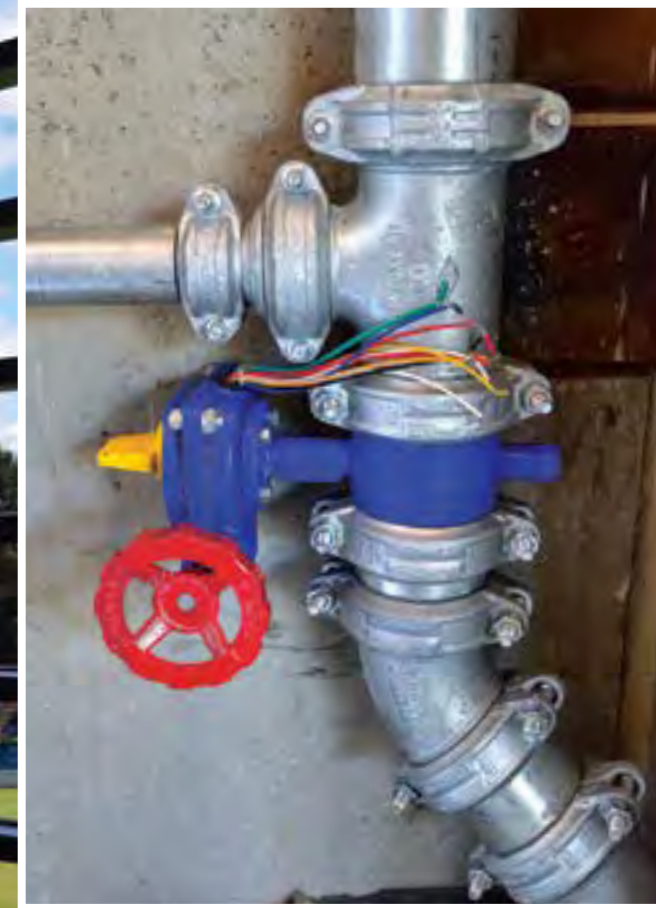
JCL Electrics commenced work in early March 2018, providing temporary power works. The company then proceeded smoothly in

co-ordination with the broader building programme completing the electrical package in mid December 2018 on time and within budget.

This facility required some creative thinking as the electrical system is intended to facilitate numerous events, each with specific requirements from the broadcasters and hosts. This required JCL Electric’s years of experience and knowledge to design a detailed solution to produce a building with a unique multi-faceted electrical network.

The electrical package included a new onsite substation, the redesign and supply of the lighting system incorporating an automated lighting control system for general, landscape and enticing feature lighting. Installation of specialty power supplies and outlets both within and remotely from the structure, all while maintaining sleek and modern aesthetics. The prestigious nature of the project meant that high end systems were required, as was energy efficiency, which was delivered through the use of LED and high performance light fittings.

For more information contact JCL Electrics, 11/86 Sheppard Street, Hume ACT 2620, phone 02 6260 2488, email admin@jclelectrics.com.au, website www.jclelectrics.com.au



Contemporary Plumbing are market leaders amongst Hydraulic contractors within the commercial sector. They are qualified specialists, fully licensed and insured, with the aim to provide cost effective solutions in all commercial plumbing services including New builds, Office fitouts and refurbs, base building upgrades and civil works.

Contemporary Plumbing completed a range of work and upgrades for the Manuka Oval Media and Function Centre. They fitted out hydraulics to the bathrooms and kitchens as well as hot and cold water reticulation. The company also fitted the gas supply to the hot water units and commercial kitchen. Additionally, Contemporary Plumbing added upgrades to the civil sewer and stormwater, pumping stations, and grease arrestors. They also upgraded the fire boosters to provide better fire protection to the building.

The team commenced work in January 2018, completing their part of the programme in November. During construction, the stadium was kept open to the public for events, which required coordination between Contemporary Plumbing, Kane Constructions and the stadium management to upgrade existing fire hydrant boosters. By relocating the boosters and pumps, the services were brought

back in line with the building codes, and enabled the project to run smoothly and be delivered successfully to client specifications. "It was a great collaboration between us, Kane Constructions, NDY, and the Architects, to overcome various challenges and deliver the project on time and within budget," said Contemporary Plumbing Director, Ryan Gransden.

Contemporary Plumbing provide their service mostly within the Australian Capital Territory and surround. Other projects the company are working on include the IP Australia Building Upgrade in Woden, the Geoscience Australia building upgrade in Symonston, and the R7 Defence building in Russel.

For more information contact Contemporary Plumbing, 64 Bayldon Road, Queanbeyan NSW 2620, phone 1300 988 773, email admin@contemporaryplumbing.com.au, website www.contemporaryplumbing.com.au