

MONASH UNI STUDENT ACCOMMODATION

DESIGN & CONSTRUCTION CONTRACTOR : BroadAPM
PROJECT END VALUE : \$65 Million
COMPLETION : November 2011
PROJECT MANAGER : Donald Cant Watts Corke
ARCHITECT : BVN Architecture
STRUCTURAL AND CIVIL ENGINEERS : Bonacci Group
SERVICES ENGINEER : Norman Disney and Young
BUILDING SURVEYOR : PLP Building Surveyors & Consultants
QUANTITY SURVEYOR : WT Partnership



A PERFECT COMBINATION

BroadAPM's first contract was secured in 2010 for the design and construction of the 600 bed student accommodation facility for Monash University, Clayton campus. The project is the first NRAS funded project for student accommodation and is also the first project in Australia to be awarded a 5 star Green Star Multi-Unit Residential Version 1 rating for design by the Green Building Council of Australia. The project will also seek a 5 star As-Built rating.

The facility has been architecturally designed by BVN Architecture, with services and environmentally sustainable design conducted by Norman Disney & Young and structural design by Bonacci Group.

The project design incorporates two, five-storey buildings each containing 300 residential units with associated common facilities and amenities spanning over 23,000 square metres. With a focus on achieving 5-star Green Star Design and As-Built rating under the Green Star Multi-Unit Residential V1 Tool, the development has included exceptional passive design in combination with active features such as grey water treatment and a 153kw photovoltaic array that will be the largest residential installation in Victoria.

The construction site was operating on a functioning university campus and was located in the middle of the sporting facilities so traffic management and safety of the students and public was paramount during this project.

Located next to the Jock Marshall Reserve, which is managed by Monash University Biological Sciences, meant the implementation of a stringent Environmental Management Plan, which dealt with storm water runoff from the site and the inclusion of a permanent bio-filtration trench.

There was a focus on using materials with reduced environmental impact and the team worked on making the best use of materials by modularising and prefabricating where possible.

BroadAPM offers significant national construction experience, backed by the financial stability of Leighton Contractors. With more than 40 years construction industry expertise and an annual revenue of more than \$500 million, BroadAPM provides their clients with competitive, mid-tier construction cost alternatives, supported by tier-one expertise and security. Completing projects in the \$25 - \$200 million range, a joint venture between Broad Construction Services and APM Group can undertake projects throughout Australia in sectors that include retail, health & aged care, education and commercial/office.

BroadAPM
Whitney Hammond
Business Development Coordinator
t. 03 8413 0090



GREEN BUILDING GRADUATES WITH FIVE STARS

Norman Disney & Young (NDY) were appointed to provide environmentally sustainable design for the Monash University project. The project includes the design and construction of student accommodation at the campus and is the first project in Australia to be awarded a 5 Star Green Star Multi-Unit Residential Version 1 rating from the Green Building Council of Australia. The Monash University Student Accommodation project is spread over two buildings and comprises of studio apartments, 2 and 3 bedroom apartments and communal spaces.

In order to comply with the Green Star rating, NDY integrated various systems and used environmentally accredited materials on the project.

The energy efficiency systems include natural ventilation throughout therefore removing the need for air-conditioning and gas fired central boilers to provide hydronic heating to each apartment. All appliances have been selected with the highest energy star ratings in mind.

There is also a focus on using photovoltaic (solar) panels, rainwater and greywater harvesting along with the use of low VOC carpets and paints throughout the accommodation.

The accommodation buildings are located in close proximity to a range of amenities and academic facilities thereby reducing the need to travel. Having services easily accessible to the student accommodation also encourages the use of public transport.

NDY boasts a global workforce in excess of 550 employees, with a team of 16 having worked on the Monash University project. The team carried out work in several areas including mechanical, electrical, fire, hydraulics, acoustics, lifts and ESD.

NDY have a reputation for delivering highly innovative and tailored solutions for their clients in a wide range of markets including buildings, health, industrial, defence, transport, mission critical, utilities and sustainability.

NORMAN DISNEY & YOUNG
Melbourne Office
115 Batman Street West
Melbourne VIC 3003
t. 03 9862-6800
f. 03 9862-6900



SUCCESSFUL DELIVERY

Donald Cant Watts Corke (DCWC) provided a hands on approach on the Monash University Student Accommodation Project. DCWC supplied a high calibre project management team with an appropriate blend of skills and experience to ensure the project was delivered under budget and handed over to the university and users on time and as briefed.

The Monash University Student Accommodation project has targeted a 5 Star Green Star Design and As Built rating. The innovative development has set a benchmark for future campus accommodation projects. As part of their work to accomplish the 5 Star Green Star rating the project team made substantial achievements. These include the utilisation of grey water and storm water harvesting; the use of recycled building materials; the use of photovoltaic solar power to produce hot water; and the incorporation of natural ventilation and exhaust systems along with a range of thermal efficiencies.

Alan Findlater, James Hawkins and Jamie Nicolson from DCWC worked on the Monash University Student Accommodation Project. The successful outcome of the project was supported by the great partnerships that were formed with the client and all project team members. The contract documentation for tender was delivered on time, while the design outcomes were a result of extensive user group

consultation. These were all key elements on the project and provided effective delivery and handover.

The expert team of Project Managers at DCWC, with specialist skills across a broad range of industries, brings together best practice processes to deliver outstanding results. Their Directors remain involved with all projects from start to finish ensuring continuity, security and the best possible outcomes for their clients.

DCWC provides a project management service that is flexible, responsive and innovative in tailoring or developing services to meet their clients' project needs.

DONALD CANT WATTS CORKE
ALAN FINDLATER - Managing Director
Level 3, GPO Building
(Elizabeth Street Entrance)
350 Bourke Street Melbourne VIC 3000
t. 03 8662 1111
f. 03 8662 1122
e. dcwcvic@dcwc.com.au
www.dcwc.com.au

