

HARRISON SECONDARY SCHOOL

MAIN CONSTRUCTION COMPANY : St Hilliers
CLIENT : Education and Training Directorate
COMPLETION : November 2011
ENGINEER : Northrop Engineers
ARCHITECTS : May Russell
PROJECT END VALUE : \$50 Million

SUSTAINABLE BUILDING FOR THE NATION'S FUTURE

St Hilliers was engaged by ACT Shared Services Procurement on behalf of the Education and Training Directorate to construct the \$50 million Harrison Secondary School in Canberra, which incorporates many sustainable initiatives.

Established in 1989, St Hilliers is one of Australia's leading, private construction and property groups with operations in ACT, VIC, NSW and QLD.

St Hilliers has successfully delivered large scale projects for major corporate, institutional and government clients across all property sectors. The company has developed and maintained a business model capable of accommodating and servicing a client's needs at any stage in the life cycle of a project, from its genesis to final delivery. This broad perspective ensures the best outcome for all stakeholders.

The Harrison School is on track to be delivered in November 2011 to open for day one of term one of the 2012 academic year. Displaying their client focussed approach, St Hilliers organised their construction program to enable the supplementary buildings at the back of the school to be constructed for use by the adjacent Harrison Primary School solving their pressing accommodation needs.



This large secondary school, accommodating up to 800 students from grades six to ten, has been designed to facilitate the latest educational practices and to complement the primary school. There are a total of nine buildings, the two largest having two storeys, and they include 69 classrooms, a gymnasium which can also operate as a performing arts facility, a purpose-built, sound-proofed performing arts area, specialist teaching areas and an administrative building with multiple offices, library and staff areas. The project incorporates a range of environmentally sustainable design features aimed at achieving a 5 Green Star Design rating from the Green Building Council of Australia.

Natural ventilation is a key feature of the design. Thermal chimneys, operable windows and roof fans appear in almost every part of the school. This has eliminated the need for mechanical air conditioning. The school's carbon footprint will be further reduced through the use of solar hot water pre-heat installations and gas storage.

Sustainable building materials have been favoured throughout the project including recycled timber, low VOC paints and low formaldehyde products with ecologically certified finishes.

Existing bushland, which forms a breeding ground for the Superb Parrot, has been incorporated into the landscaping design for the school. The gardens and general landscaped areas will require little or no watering once established but if necessary will be supplemented by a system to recycle rain water.

St Hilliers has a track record of award-winning projects in the primary, secondary and tertiary education sectors.

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The science of mobile lighting has sat at the heart of the Allight brand for more than 20 years. From worldwide headquarters in Perth, Western Australia, design, engineering, procurement and assembly teams produce almost 3,000 lighting towers a year.

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The Sykes brand has been a major force in the world's auto-prime pump market for over 40 years. From manufacturing bases in New South Wales in Australia, and Dubai the brand has systematically added to its domestic market domination via established distribution networks across a number of key global markets.

The FG Wilson generator brand needs no introduction to the construction sector, having played a pivotal role in standby power supply for more than five years.

Italian-designed and made, Perkins-powered Rotair compressors are compact, powerful, and well-suited to meet the needs of the construction, mining, rental and industrial sectors. Their patented air-oil filtration system is recognized around the world as a major breakthrough in compressed air technology. All models in the range feature Rotair's new rotary air screw technology, which is designed to produce minimum noise and maximum compressed air quality.



ALLIGHTSYKES



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PAVING THE WAY FOR OUR STUDENTS

Basham Bricklaying has been operating for over 21 years in the ACT as a commercial brick & block laying business, providing the complete service, covering the supply and installation for any building project.

Twenty-five full-time staff are currently employed, including both apprentices and long-term employees, such as the main foreman Gary Doubleday and leading hands Paul Doubleday and Donald Noble who have been with the company for 20 years.

Basham Bricklaying prides itself on taking on apprentices and ensures that they receive the best training from its most senior staff, with the long-term aim of enabling apprentices to make it on their own or to stay with the company to further their skills. This approach has shown great results with two previous apprentices now working as leading hands.

Basham Bricklaying is run to a very high standard of workmanship and safety, meriting their highly respected reputation in the construction industry.

For the Harrison Secondary School project, they supplied and installed all internal and external blockwork, stacked glazed brickwork to the underside of windows to the 6 single level buildings, two larger buildings with two storeys and a gymnasium. The company was also awarded the contract for the supply and laying of the blockwork for all the landscaping around the school.

All buildings are constructed of 140mm & 190mm blockwork supplied by Adbri Masonry to all internal walls, with core-filled walls to each side of openings, windows, doorways and a two course/400mm high core-filled bond beam to the top of the internal walls to support the structural steel. The external walls were built out of 90mm oatmeal coloured blocks and glazed bricks were laid stack bond under all the windows.

"These material and structural choices made it a very interesting project to work on and we are proud to have played our part in making this school a real show piece," commented Jamie Basham, the director of Basham Bricklaying, "I would like to thank my staff who all contributed to this project and St Hilliers Pty Ltd in their role as project managers on the building of Harrison Secondary School."

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