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RICKARD ENGINEERING

Principal

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Charles Rickard is one of Australia's most sought-after engineers who has built a solid reputation through delivering quality, trust and innovation within his field.

Charles graduated from Surrey University, UK with a Master of Science (Distinction) in Structural Engineering in 1975, having completed a Bachelor of Science in Civil Engineering the previous year. He undertook his initial 3 years of engineering training with Taylor Woodrow, the international engineering group. By 1982, after an 18 month stay with Alan Baxter and Associates, he had progressed to the position of London Associate with White Young Consulting Group [now called White Young Green]. His major responsibility with that company was the engineering design and management of construction for the \$100 million (1980 prices) town centre development in Basildon, UK as well as a 3 month stint in Qatar designing a new palace for the Emir.

In 1984, he moved to Australia to set up Rickard and Partners Pty Ltd, subsequently known as Bonacci Rickard and then Rickard Hails Moretti Pty Ltd. Over a period of 22 years, the company offered civil, structural, façade and building diagnostic consultancy services in two different divisions with an annual turnover in excess of \$3.0 million. The team utilised the very latest in design and drafting computer technology. Their clients covered the public and private sector, project values ranging up to \$200 million in value.

In June 2004, Rickard Hails Moretti Pty Ltd split Engineering and Diagnostics work in to two separate businesses. Charles progressively reduced his involvement in both to occasional consultancy and reference up to December 2006.

After 2 years as a sole practitioner, Charles relaunched his own engineering team as Rickard Engineering, based at 121 Military Road, Neutral Bay. A team of 12 highly experienced and capable team provides a service to the industry at all levels.

STRUCTURAL • CIVIL • FAÇADE • DIAGNOSTICS • BUILDING DISPUTE RESOLUTION

A division of RH Consulting Holdings Pty Ltd • ABN 47 164 127 468

RECENT PROJECTS OF NOTE ARE AS FOLLOWS:

- SCG Façade – new West Stand, Sydney
- New Royal Adelaide Hospital, working with Yuanda, Australia
- Victorian Cancer Council Building, Melbourne, working with Minesco, Sydney.
- Building Alterations at the Domestic and International Airports, working with Built.
- Barangaroo - Façade work with Townsend Group & Lend Lease.
- Sydney Opera House, working with Erectright, Precast
- New Commonwealth Games Pool, Gold Coast, working with Paul Stevenson and Associates.
- Regular Diagnostic work for NSW Schools, working with DET and NSW Services.
- Technical Expert Services to the Legal Profession.
- Next Gen Health Club, Lyneham, Canberra, working with Crystal Pools.
- Numerous Domestic Building Projects with a variety of small builders.
- 30 year association with Compass Pools, providing support to the Dealer Network.
- Australia 108 Tower, Melbourne – 100 storey with Brookfield Multiplex & Minesco.
- GRC Façade projects in UAE.

In August 2012, Charles agreed to be Chairman of the Multi-disciplinary Committee of the Institution of Engineers Australia, providing recommendations to the NSW Government on the Standards of Certification in the Building Industry today.

His enclosed C.V. provides a list of the many projects of all types on which he has worked. Further he is an acknowledged expert in the field of facades, in particular glass reinforced concrete and reinforced plastics. He was technical secretary in 1999 to the National Precast Concrete Association for the development of the Australian Code of Practice for GRC.

Charles Rickard is also considered an expert in the design of swimming pools, his expertise uniquely covering both fibreglass and concrete. He has designed over 20 Aquatic centres in Australia and Asia. He was technical secretary to AS1838 and AS1839 in 1987.

Finally, Charles undertakes building diagnostic work for certain clients. Strata work is still done by RHM Consultants Pty Ltd but he personally undertakes work of an engineering basis only (including dispute arbitration work) for the NSW & Finance Department. Charles now also offers engineering training courses for graduate engineers, concentrating on all the issues you learn from experience rather than at university.

SENIOR SCHOOL

Oakham School, Rutland, UK

UNIVERSITY

Surrey University, Guildford, UK: BSc (Hons 2/1) in Civil Engineering and MSc (with Distinction) in Structural Engineering

ASSOCIATIONS

- Fellow of Institution of Engineers Australia
- Member of Institution of Civil Engineers UK
- Fellow of Institution of Structural Engineers UK
- Past Chairman NSW Branch of Institution of Structural Engineers UK
- Registered Engineer (Victoria, New South Wales, Queensland and Europe)
- Member of the Institution of Engineers New Zealand

EXPERIENCE

(January 2007 – Present)

Rickard Engineering - Principal

(Formerly RH Consulting Engineers)

Providing a wide range of engineering consulting services. Jobs have been many and varied;

- Abu Dhabi \$900M residential/retail/hotel. Architect Phillip Cox.
- Sydney International and Domestic Airport Terminal alterations (6 different projects). Mixed.
- Extension of Museum of Contemporary Art, Sydney, Watpac Construction
- Qantas Experience Development in Alexandria.
- Pila Group light poles and sporting net structures.
- GRC cladding ACU Melbourne.
- Star City Casino upgrade for “Yuanda”, Australia
- Various car park cladding projects utilising “stressed” perforated steel and aluminium sheeting. Generally for Townsend Group.
- GRC cladding, Flinders Street, Melbourne.
- QE2 Car Park cladding, Perth.

- SCG Façade, working with Townsend Group
- New Royal Adelaide Hospital, working with Yuanda
- Victorian Cancer Council Building, working with Minesco
- Barangaroo, working with Townsend Group
- Sydney Opera House, working with Erectright – Precast Erection
- New Commonwealth Games Pool, Gold Coast, working with Paul Stevenson & Associates
- Regular Diagnostic work for NSW Schools, working with DET and NSW Services
- Technical Expert Services to the Legal Profession
- Australia 108 Tower, Melbourne – Façade Design. The Southern Hemispheres Tallest Building.
- Numerous Domestic Building Projects with a variety of small builders
- 4 GRC façade projects: National Bank of Oman, Oman Convention Centre, Burj Vista in Dubai, Neighborhood One Residences in Masdar City.

Design Certification for concrete and fibreglass pools (large and small).

Clients see website - rickardengineering.com

The company has been involved in the following large Olympic Class Swimming Centres:

- Colmslie Aquatic Centre, Brisbane
- New Commonwealth Pool, Brisbane (Design Audit)
- Bexley Pool (Design Audit)
- Trinity School (Design Audit)
- Next Generation Club, Canberra

He has assisted the Department of Commerce with many schools where foundation movement has occurred, deriving imaginative cost efficient solutions avoiding conventional underpinning. He has also assisted the Office of Fair Trading on a number of projects, developing pragmatic solutions for insurance cases where the conventional solution would be far more expensive.

(1984 – 2006)

Rickard & Partners - Director

(Aka Rickard Hails Moretti Pty Ltd)

Responsible for the overall operation of the Company. Over twenty two years he was involved in many projects in all areas of Civil, Structural and Diagnostic Engineering.

WATER RETAINING STRUCTURES

Since 1984, the company was responsible for the design of hundreds of domestic concrete and fibreglass pools. In addition, it was involved in a large number of Olympic Class Swimming Centres including:

- Bomaderry Pool, NSW
- Forbes Pool, NSW
- Tamworth Pool, NSW
- Port Stephens Pool, NSW
- Fingal Bay Caravan Park Tingha Pool, NSW
- Bradbury Swimming Pool, NSW
- Catholic School, Forbes, NSW
- Enfield Council, Enfield, NSW
- Dubbo RSL Club, Dubbo, NSW
- Mt Annan, NSW
- Macquarie Fields, NSW
- Eagle Vale, NSW
- Tingha Pool, NSW
- Castle Hill RSL, NSW
- Steve's Swimming Centre, Campbelltown, NSW
- Dubbo Aquatic Centre, Dubbo, NSW
- Rhodes Corporate Park, NSW
- Sydney Park, Sydney, NSW
- Healthlands Centre Training Facility, NSW
- Bomaderry Council, Nowra, NSW
- Hilton Hotel, Melbourne, VIC

RETAIL

- Jay Jays Jeanery, Auburn, NSW
- City Golf, Sydney, NSW
- Sydney Central, Sydney, NSW
- Boulevard Hotel, Sydney, NSW
- Maroubra Shopping Centre, NSW

COMMERCIAL

- Park Avenue, Drummoyne, NSW
- 140 Sussex St, Sydney, NSW
- Balmain Road, Lilyfield, NSW
- Norwest Business Park, Baulkham Hills, NSW
- Bathurst Street, Sydney, NSW

HEALTH

- Macquarie Hospital, Ryde, NSW
- Dubbo Hospital, Dubbo, NSW
- Canberra Field Hospital, ACT

FACADE

- Marriott Hotel, San Antonio, USA
- Rialto Hotel, Melbourne, VIC
- Flinders St Station, Melbourne, VIC
- Missenden Rd Medical Centre, Sydney, NSW
- University of NSW, Sydney, NSW
- Quay Grand, Circular Quay, Sydney, NSW
- Conference Centre, Darling Harbour, NSW
- Ceremonial Court Qatar
- Science & Technology Park, Qatar
- Dubai Airport, United Arab Emirates
- Library of South Australia, SA
- Renzo Piano Tower, Sydney, NSW
- Pacific Square, Maroubra, NSW
- 140 Sussex St, Sydney, NSW
- Roy Street, St Kilda, Melbourne, VIC
- Adelaide Taxation Office, SA (Prestressed GRC sunscreens)
- 229 Macquarie St, Sydney, NSW
- Victoria Station, UK

RESIDENTIAL

- Housing Units, Victoria Road, Bellevue Hill, Sydney, NSW
- Housing Units, Epping Road, Marsfield, NSW
- Luxury Dwelling, Stanton Road, Mosman, NSW
- Luxury Dwelling, James Street, Mosman, NSW
- Luxury Units, Penrith, NSW
- Pacific Square, Maroubra, NSW
- Units, South Dowling, Sydney, NSW
- Units Arncliffe, Sydney, NSW
- Units, Anzac Parade, Sydney, NSW
- Units, Mackay, QLD, NSW

INDUSTRIAL AND CIVIL

- Nuss Removals, Lane Cove, Sydney, NSW
- Port Botany Container Dept, Port Botany, Sydney, NSW
- Moreton Bay Container Depot, Morton Bay, Brisbane, QLD
- Davis Gelatine Australia, Beaudesert, QLD
- Grace Chemical, Melbourne, VIC
- Tahmoor Colliery, Tahmoor, NSW

- Mercedes Benz, Milperra, NSW
- Various pontoon and jetty designs in Sydney Harbour, NSW
- Herbert Street Industrial Park, NSW
- Buffalo Road Industrial Park, NSW

SPECIAL STRUCTURES

- 'Big Things' Goulburn, Taree, Ballina, NSW, Tourist Developments, NSW
- Tangara Train, State Rail Authority, NSW
- Sydney Sewer Outfalls, Malabar, NSW
- Merlion 37M High Tower, Singapore
- OBS Indiana Phase 2, Singapore
- Maplewood Condominium, Singapore
- Millennium Dome, Body Zone, UK
- Victoria Station, London, UK

(1980 – 1984)

White Young Consulting Engineers, UK

(Senior Engineer promoted to Associate)

Responsible for design, drafting and client liaison with a total department of 18 engineers and technical staff, with projects to the value of AUD \$130 million dollars. Projects include the following:-

RETAIL

Basildon Town Centre Development, UK

COMMERCIAL

2 x 40 storey towers Cairo, Egypt

RESIDENTIAL

Sheraton Emir Palace

HOTEL

Doha, Qatar, United Arab Emirates

SPECIAL STRUCTURES

Old Town Hall, Christchurch, England

INDUSTRIAL

British Petroleum Chemical Warehouse, Scotland.

(1979 – 1980)

Alan Baxter & Associates, UK

(Engineer)

RESIDENTIAL

Crown Reach, Millbank, London and Housing Association, London

(1975 – 1979)

Taylor Woodrow Construction LTD, UK

(Assistant Junior Engineer promoted to Section Engineer)

Initially in the design office and subsequently on-site supervising a team of 5 engineers and draftsmen and organising labourers and work load of site operatives on a day to day basis. Also handled the foreman's responsibilities for 7 months at Bury Interchange, Lancashire. Also worked on the following projects:-

- Dubai Drydock Complex, Dubai, UAE
- Bering Sea, Alaska
- Douglas Roll on Roll off Ferry Isle of Man, UK

GEOTECHNICAL ENGINEERING

He has never pretended to offer the range of services of a traditional geotechnical engineer. His Masters degree included a thesis in soil mechanics. He is registered as a geotechnical engineer with a number of local authorities in NSW. Soil testing is limited to standard penetrometer work, however, his expertise is principally in the understanding of the causes and rectification of cracking due to seasonal moisture change and loading differential. A number of schools and churches in Sydney now enjoy the benefits of in ground watering systems to control /stabilise moisture in clay soils as an alternative to expensive and often ineffectual underpinning solutions.

His work in resolving differential settlement issues arising from combining piled and raft solutions in sand on the Maroubra Shopping Centre known as Pacific Square is worthy of note.

DIAGNOSTIC ENGINEERING

Since 1984, he has been involved as an arbitrator and technical expert in resolving many problems to do with buildings of all shapes and sizes. Notable examples are:

- Multiple cases as technical expert in court cases
- Multiple case analyses for Department of Fair Trading and the BSC before them.
- Davis Gelatine Tank Collapse, Botany Bay, NSW
- FRP Water Slide Delamination, Gold Coast, QLD
- Road Failure, Sub Division, Tasmania
- Sound insulation problems – Horizons Tower, Sydney, NSW
- Dee Why RSL Oceangrove Apartments, Dee Why, NSW
- 8A Mosman Street, Mosman, Sydney

BUILDING DISPUTE RESOLUTION

Building and construction litigation can be a costly, lengthy, stressful and sometimes unnecessary. And in the end, no-one really wins in court, except perhaps, the lawyers.

Lawyers understand the law, but rarely understand the complexities of building construction like we do. The reality is, the root cause of a dispute can often be found in poor design, or lack of supervision, rather than in the workmanship.

Here is where we can help: RH Building Dispute Resolution is a team of industry experts who have the skills and expertise to separate the design, management and construction responsibilities of a building project. Therefore, we're able to provide unbiased advice on how to resolve the dispute, at a fraction of the cost of litigation.

