



Atlantis® Water Management
SAVE WATER, SECURE THE FUTURE! *Report*



Green Walls in Gold Coast, Queensland

Situated in the commercial hub of Southport on Queensland's Gold Coast, The Ferry Road Market is a modern market place with a dynamic mix of fresh produce, retail outlets, cafés, and includes a central open air plaza where the relaxing atmosphere is enhanced by the induction of fresh breezeways created by the use of Green Walls.

Cox Rainer Architects from Brisbane sought a product that would allow the construction of breathing green walls that would shade the buildings from the harsh Queensland sun.

Construction of the building included the use of modern steel architecture with a blend of synthetic panels created by using an open framework that supports Atlantis Flo-Cell (52mm) which provide a unique open weave structure with the strength to provide support for vertical gardens.

The building has a modern, yet pleasing relaxed atmosphere. The use of wandering vines through the Atlantis Cells creates

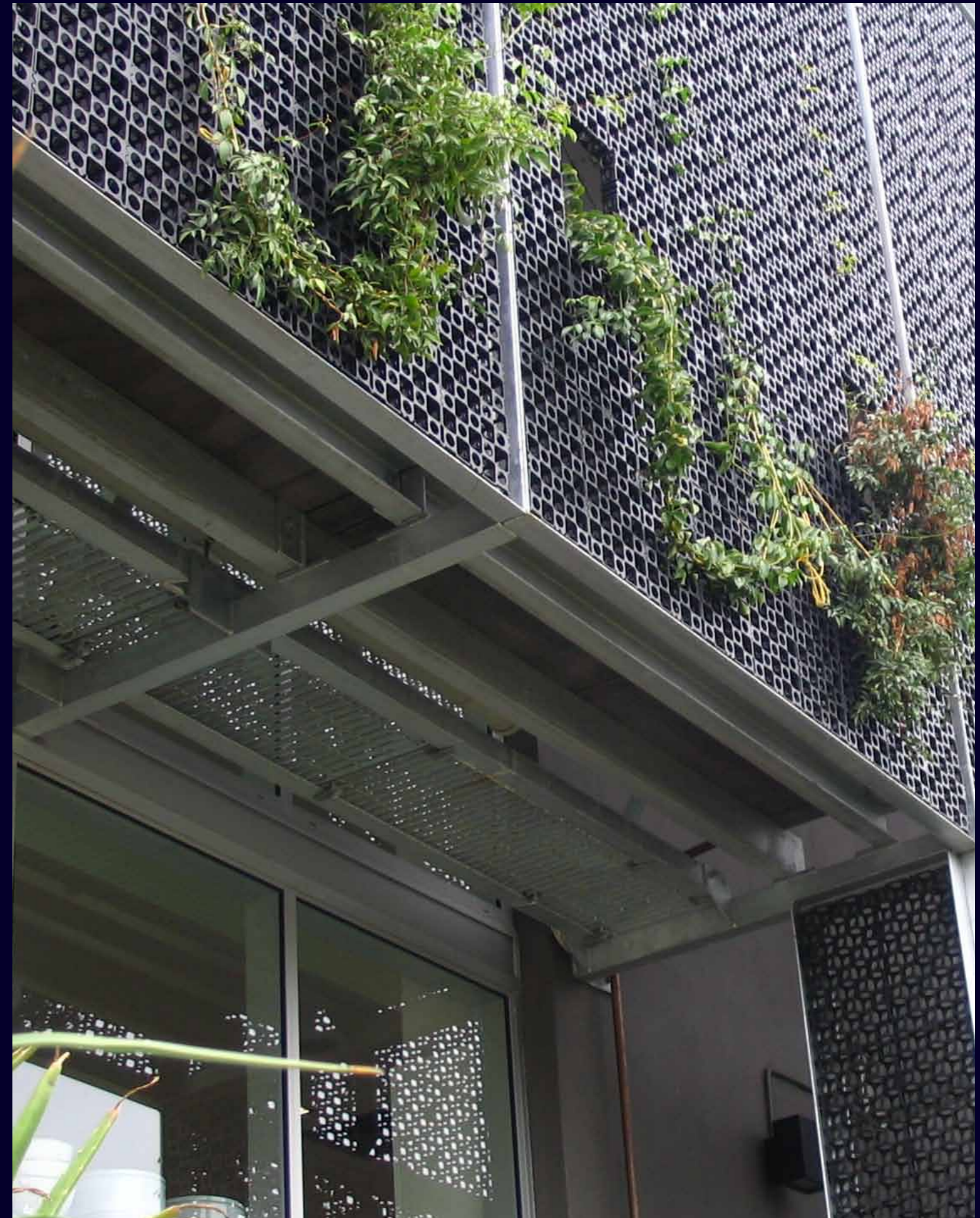
a conversation piece for visitors and adds a calming façade to the bustling centre. The façade of the building rises nearly six metres above the roof line creating a unique shade pergola effect eliminating the need for air conditioning within the pedestrian plaza.

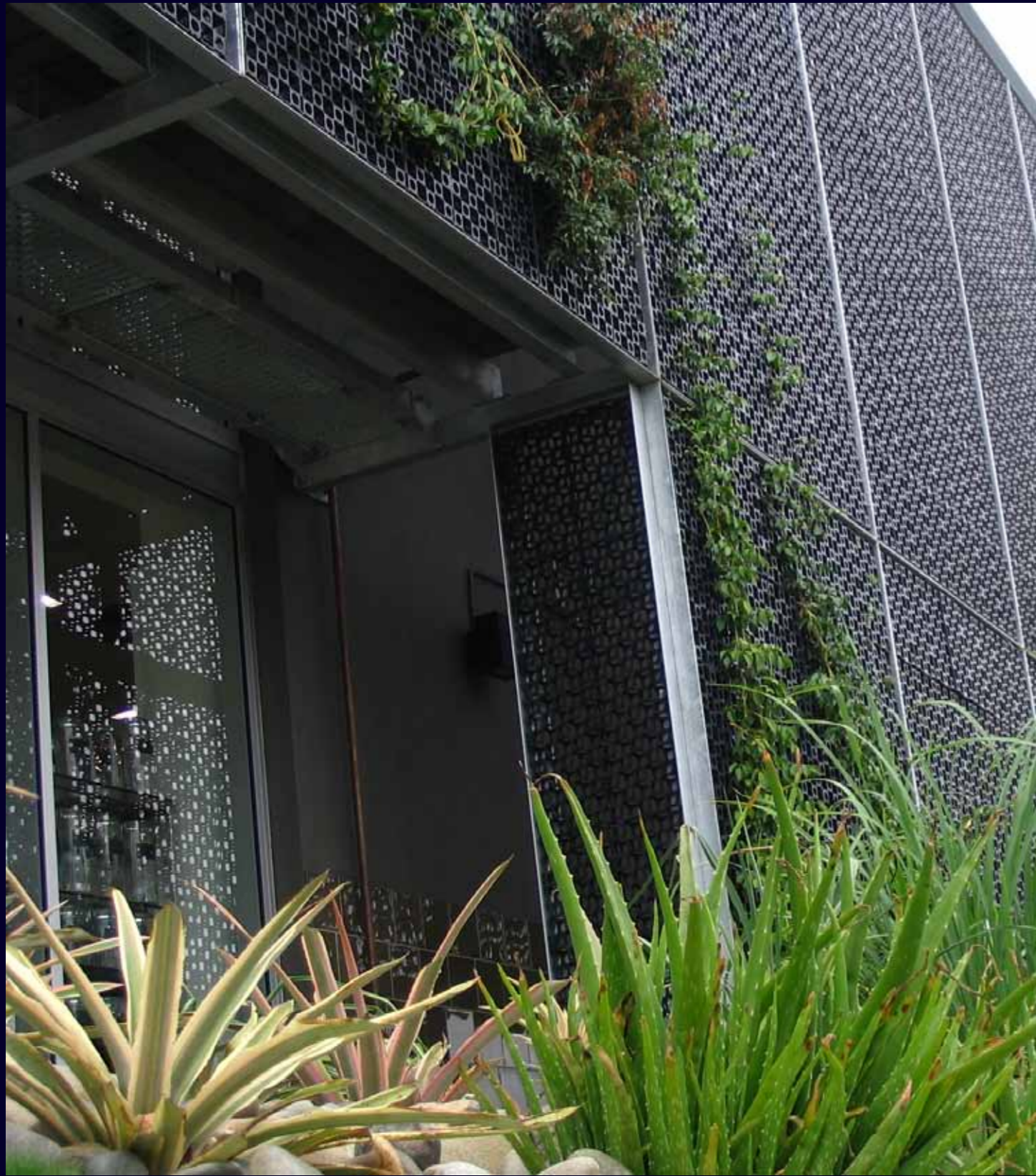
After two years and thousands of visitors the building remains a unique and climate sensitive design, and has inspired many people to consider the benefits of the use of created Green Wall Architecture.

East Coast Environmental Solutions P/L was consulted on the original concept and was pleased to be part of such a visionary project. Their office regularly discusses Ferry Road Markets and many other projects with clients who consider the Green Wall Concept as pioneering modern design.

Do you have a project that would benefit from a Green Wall? Please contact our office or your local distributor for further ideas.









Ferry Road Market

by Cox Rayner Architects & Planners



IN THE ARCHITECTS WORDS

CONCEPTUAL FRAMEWORK Ferry Road Market is a part transformation of a redundant industrial precinct into a new public precinct focused upon fresh food produce. The design retains the tilt-up structure of an original industrial 'shell', the transformation being principally created by inserting a naturally-ventilating saw tooth roof and by wrapping three sides of the building in planted screens comprising a cheap industrial plastic material conventionally used as a porous underlay for grassed driveways. **RELATIONSHIP OF BUILT FORM TO CONTEXT** The context was a dilapidated industrial commercial precinct comprising buildings around a large carpark. Eventually all buildings will be transformed to create a vibrant mixed retail hub. The concept of the planted fabric was devised to generate a new 'green' architecture – that of the 'climate wall' – which visually predicated a distinctive transformation of the precinct without it requiring wholesale demolition. The planting of the screens was matured off-site, however it will acquire ongoing beauty as it grows overtime, forming an oasis in its formerly barren context. **PUBLIC + CULTURAL BENEFITS** The project provides the Gold Coast with a new form of food lifestyle experience that it has previously had, based upon the integration of raw materials, industrial rehabilitation and environmental response to subtropical climate. **PROGRAM RESOLUTION** The plan is simply organized around a naturally ventilated courtyard, climatically mediated by new saw tooth roof. The fresh food market and seating / eating spaces form 'precincts' on

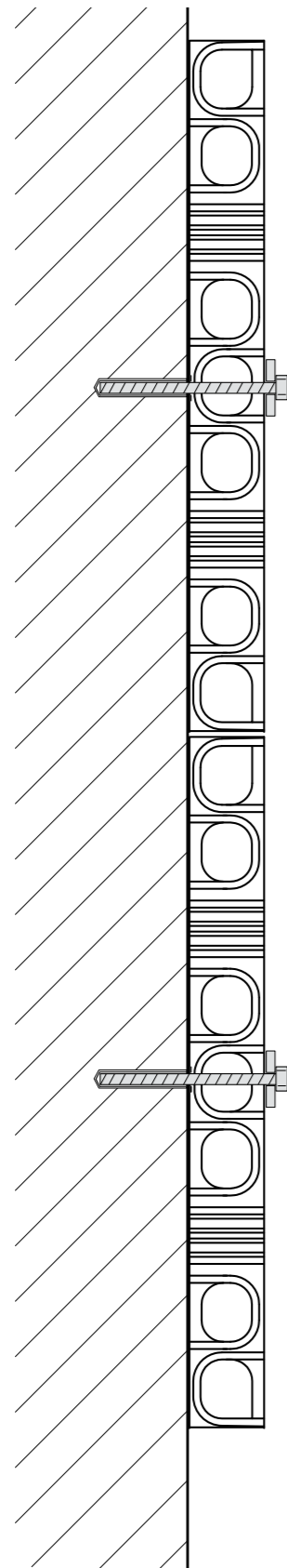
side, with a diagonal glazed wall and colonnades of columns inserted as connecting elements. Shop-fronts engage the courtyard through detail and transparency to create the atmosphere of an accessible public square. The fresh food market is positioned to reutilize existing loading dock facilities. **INTEGRATION OF ALLIED DISCIPLINES** Continuous design collaboration with the client (Callie Malouf Investments) underpins the success of a project where form and function are interdependent. **COST / VALUE OUTCOME** The project's economies derive from the recycling of existing industrial shell, the conducive use of raw concrete flooring and ply ceilings, galvanized structural framing and screen façade utilizing a cheap plastic grass cell product reinvented for new role – all producing an extremely low cost outcome. **SUSTAINABILITY** Ferry Road Market is a classically sustainable project in its reuse of existing industrial fabric, its utilization of a readily available product for climate control, its naturally ventilated interior volume, its water tank storage system, its 'green walls' which cool both interior and exterior spaces, its maximum daylight penetration via saw tooth roofs, and in its use of sustainable timber species. **RESPONSE TO CLIENTS NEEDS** Ferry Road Market is a bold venture by a client who sought to revitalize a run-down, alienated industrial complex into a dynamic public realm, now evident by its popularity. The project acts as a successful catalyst for the client to confidently progress future transformation of the precinct's other industrial buildings.

DETAILS

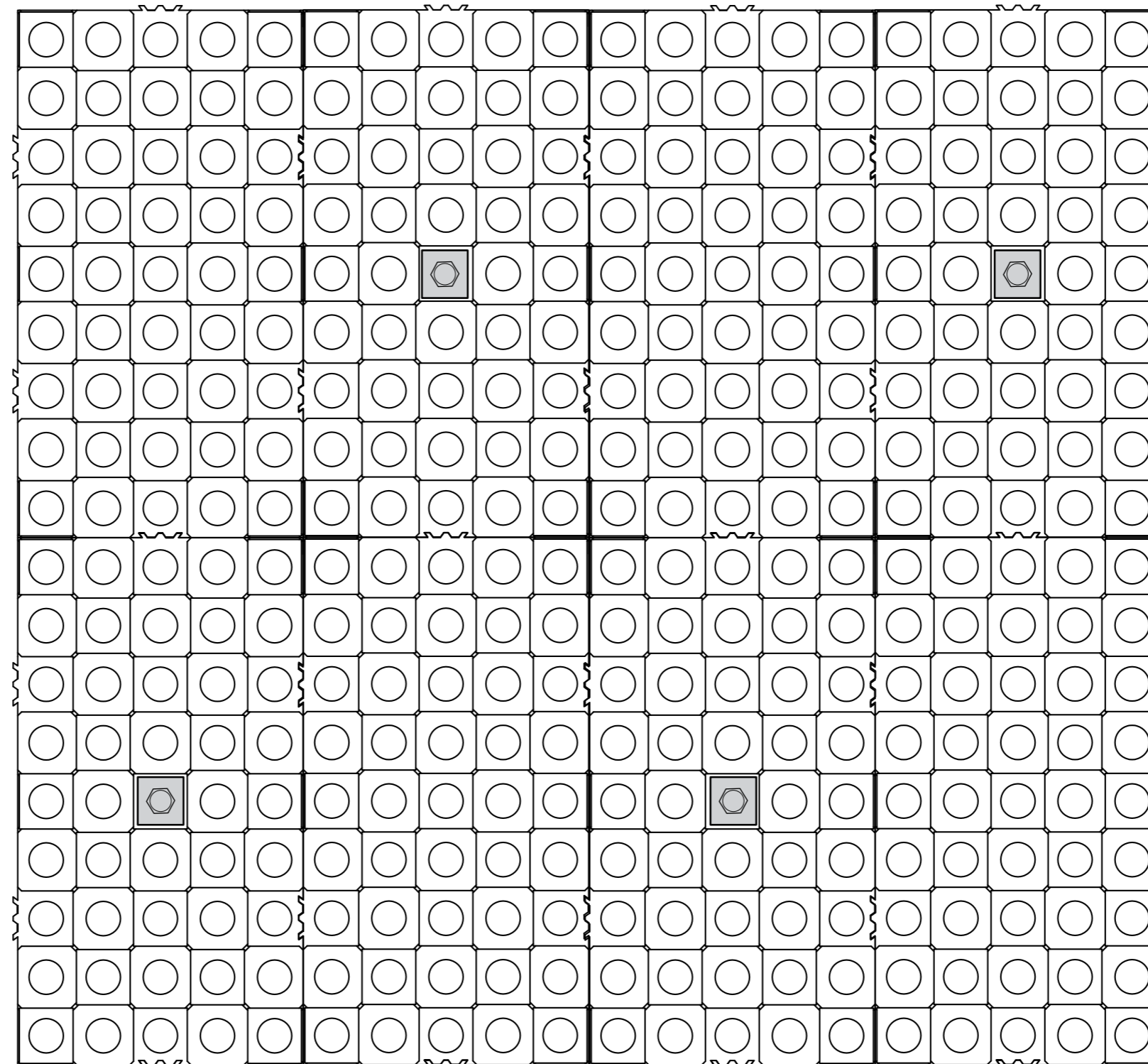
Location
Southport, QLD
Architect
Cox Rayner Architects & Planners
Contact address:
[Click here](#) for more details.
Project Team
Project architect: Ingrid Richards
Project architect: Stephanie Donigi
Design architect: Ingrid Richards
Structural consultant: Larkin Teys
Civil consultant: Larkin Teys
Electrical consultant: DMA Professional Engineers
Mechanical consultant: DMA Professional Engineers
Hydraulic consultant: BRW Enterprises
Landscape consultant: Gamble McKinnon Green
Builder: EMF Projects
Project Director: Peter Hale
Architect: Paul Devereaux
Interior Designer: Angela Pearcy
Building surveyor: Michel Group Services
Entered
2007



Side View



Front View



Anchored with Frame Anchors **HRD-HF 10x120mm**
Using 50 x 50mm aluminium square washers

