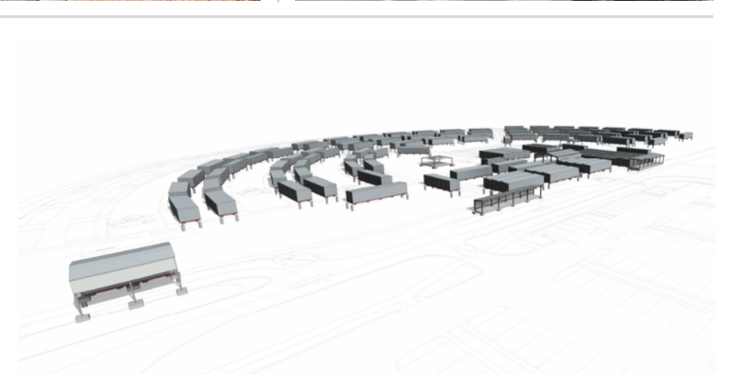
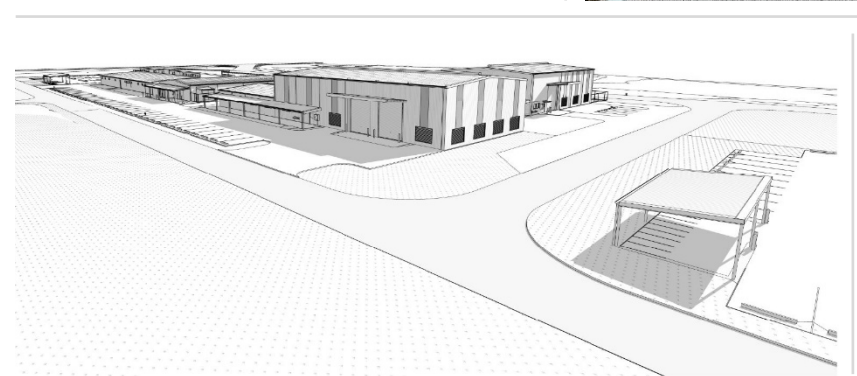
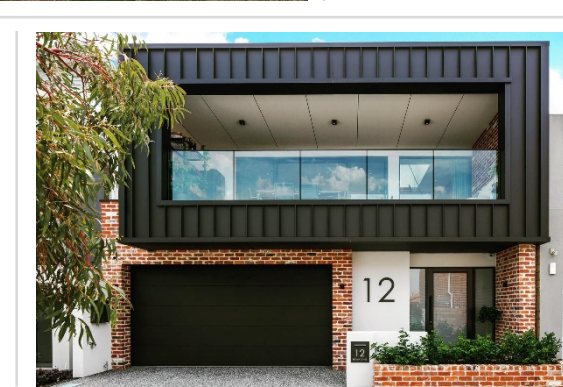
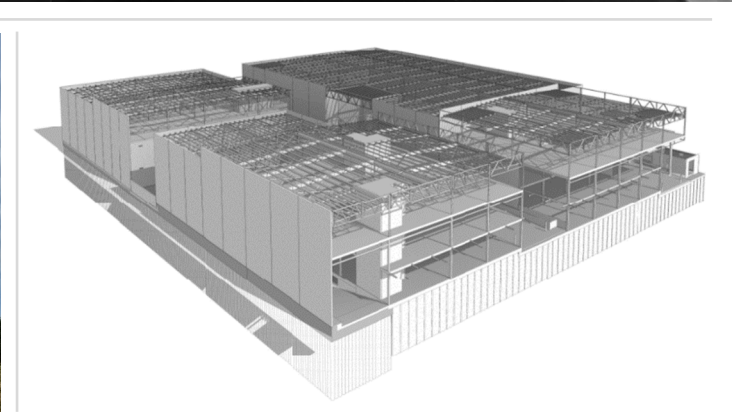
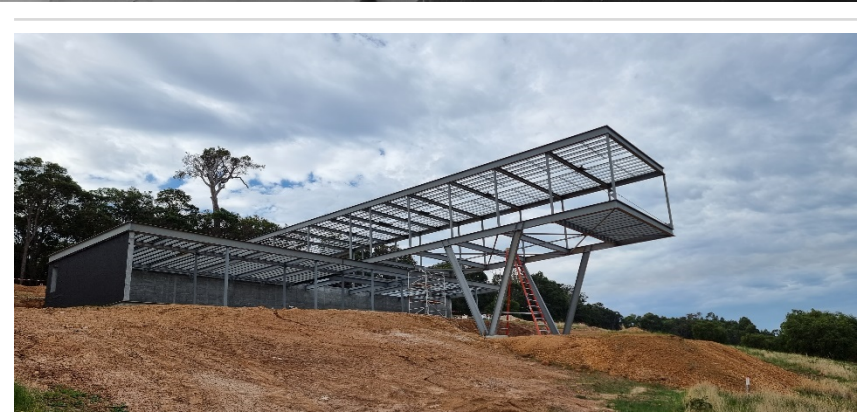




DCB
ENGINEERING

CAPABILITY STATEMENT

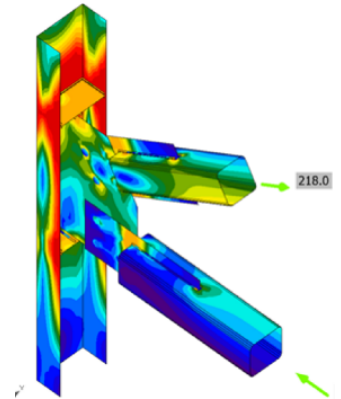


ABOUT US

DCB Engineering is a progressive, forward thinking structural engineering consultancy located in Perth, Western Australia.

Our mission is to ensure we meet the needs of the client through innovative, superior and efficient engineered design.

Our team of experienced staff have extensive project experience and technical knowledge, working on a wide variety of projects in Australia and overseas.



OUR VALUES

Clients and their projects are our focus

We strive for excellence and success

Our commitment is to deliver quality solutions

We provide innovative designs

Honest and open communication is key

OUR CAPABILITIES

SECTORS	STRUCTURAL SYSTEMS
<ul style="list-style-type: none">• Non-Process Infrastructure• Industrial• Mining Camps• Healthcare• Commercial• Mixed-Use and Residential• Education• Retail• Custodial	<ul style="list-style-type: none">• Concrete systems• Post-tension concrete slabs• Tilt-up concrete• Precast• Steel• Timber• Masonry• BIM LOD300+

KEY PROJECTS | COMMERCIAL AND HOSPITALITY



PROJECT: 3-5 Collingwood Street

LOCATION: Osborne Park, WA

DCB Engineering were engaged to design and document a massive tilt-up panel structure consisting of 4 large warehouses (600m² to 2400m²), 3 storey showroom and office, 70 vehicle underground basement carpark, 36 storage units (40m² to 120m²).

A structural challenge on this project was the varying levels of the suspended ground floor slab, and also large spans due to basement storage units and carpark. Suspended ground floor slabs have requirements for large storage and racking loadings.

On this project, an open BIM approach was used with .ifc files being exchanged between consultants.



PROJECT: 41 Sarich Street

LOCATION: Osborne Park, WA

DCB completed the design and documentation of 9 commercial factory units and offices (ranging from 100m² to 200m² with offices from 52m² to 110m²). All commercial units were tilt-up panel construction.

On this project, an open BIM approach was used with .ifc files being exchanged between consultants.

KEY PROJECTS | COMMERCIAL AND HOSPITALITY



PROJECT: 49 Simper Drive

LOCATION: Yangebup, WA

DCB designed and documented the 14 precast panel units with a total floor area of over 4000sqm. The sloped site required retaining along boundaries, with warehouse structure floor loading on top. By working closely with the client, DCB were able to value engineer the roof design and save the client 20% in steel quantities.



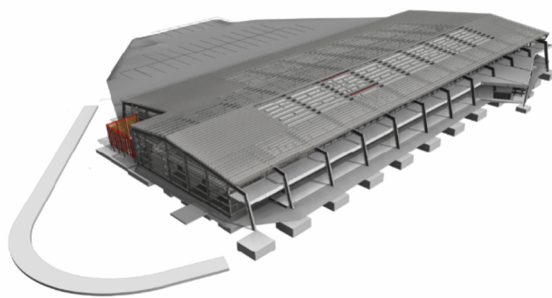
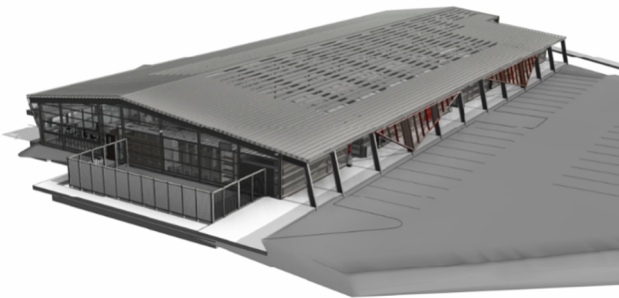
PROJECT: ICWA

LOCATION: Maddington, WA

The project consists of five standalone buildings – café, retail store, community centre, gym and social building. The structures including precast concrete, steel framed buildings with masonry and lightweight walls.

The project team worked very closely with the builder to tailor the design and details to suit the builders construction methodologies. Early engagement with the builder during design stage greatly reduced technical queries on site, allowing for effective and efficient use of time, labour and materials.

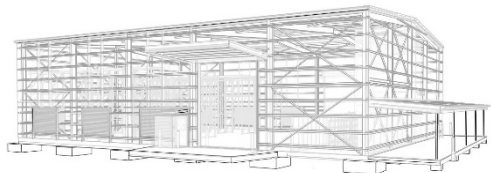
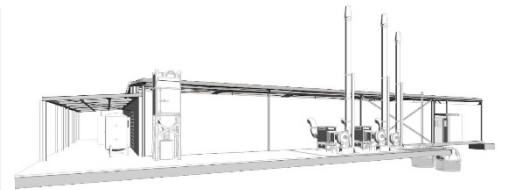
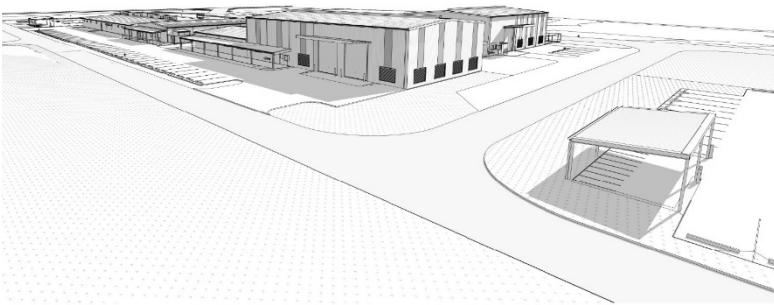
KEY PROJECTS | INDUSTRIAL AND NPI



PROJECT: DRP Production Maintenance Facility

LOCATION: Parker Point, Dampier WA

DCB Engineering were engaged to design and document an approx. 2,000sqm new maintenance facility at Parker Point, Dampier. The documentation was undertaken in Revit which allowed for coordination and collaboration between consultants.



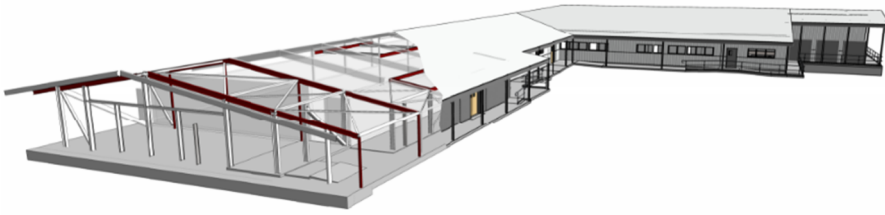
PROJECT: Covalent Lithium NPI

LOCATION: Kwinana, WA

Design and construction of Non-Process Infrastructure Buildings for Covalent's Mount Holland \$34m Lithium Project, based in Western Australia.

DCB Engineering were engaged to provide structural engineering design and documentation for the projects NPI structures including the Administration, Control Building, Laboratory, Warehouse, Workshop and ancillary structures.

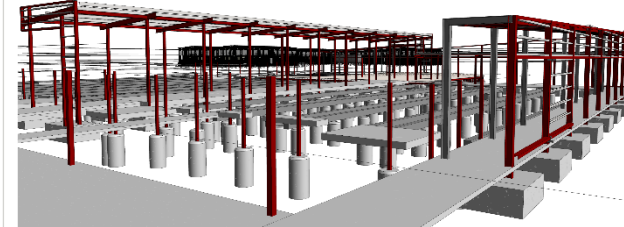
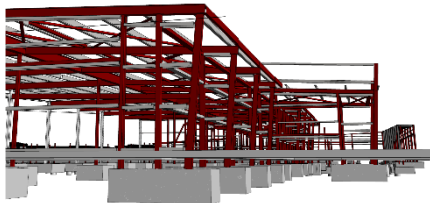
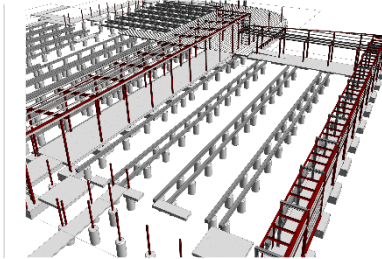
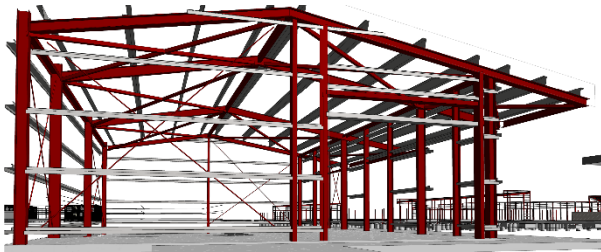
KEY PROJECTS | ADDITIONS AND REFURBISHMENTS



PROJECT: Administration Building Refurbishment

LOCATION: Cape Lambert Port B, WA

The existing administration building was extended to allow for additional rooms. DCB provided steelwork and concrete design for the extension.

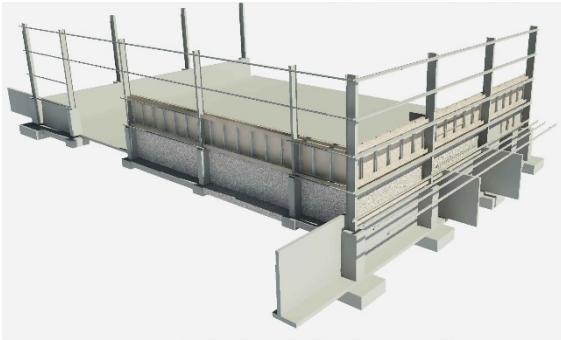


PROJECT: Rocklea – Back of House (Canopies and Transportables)

LOCATION: Paraburdoo, WA

DCB were engaged to provide structural design for extension of steelwork structure, canopies and foundations for transportable buildings.

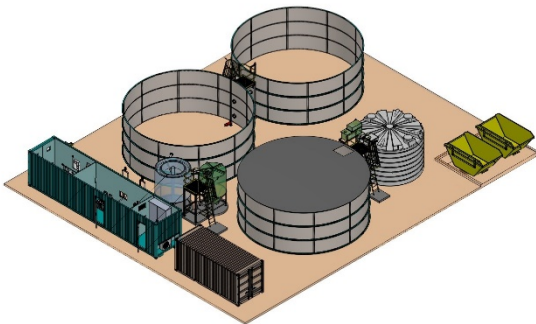
KEY PROJECTS | INDUSTRIAL AND NPI



PROJECT: Recycling Centre Balcatta

LOCATION: Balcatta, WA

DCB Engineering carried out a structural capacity assessment of the existing building. We then worked with the City of Stirling and their preferred contractor, to develop an economical buildable solution which met the City's requirements. The solution involved complex demolition procedures, and the installation of a new reinforced concrete push wall and modular steel screens all whilst the recycling centre remained operational.



PROJECT: WWTP Bunded Slab

LOCATION: Pilbara, WA

DCB Engineering provided a waterproof bunded concrete slab design. The WWTP also required plinths and slab thickenings for equipment.

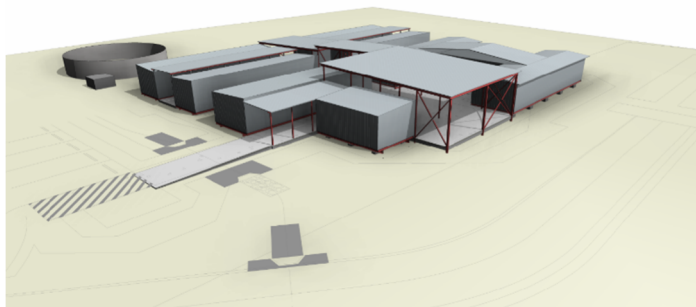
KEY PROJECTS | MINING CAMPS AND FACILITIES



PROJECT: One Arm Point Community Hub

LOCATION: One Arm Point, WA

A community hub consisting of two modular buildings with a connecting dome shelter. This structures foundations and tie downs have been designed for cyclonic conditions.

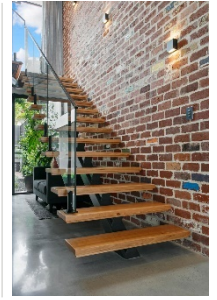


PROJECT: Gairdner Accommodation Project

LOCATION: Shire of Jerramungup, Dampier WA

DCB completed the structural design and documentation of the new facilities which comprise of refurbished second-hand prefabricated buildings, a new prefabricated building, new concrete footpaths, covered area structures, bin storage area(s), a sealed and kerbed car park area, new water tanks, new fire tanks, new Western Power supply and new on site leech drain sewer treatment system.

KEY PROJECTS | RESIDENTIAL AND MIXED USE



PROJECT: 12 Nova Lane

LOCATION: North Perth, WA

A multi-storey residence just north of the CBD, constructed with existing residences on three sides. The rear portion of the house required post and panel retaining walls.



PROJECT: 9 Clarendon Street

LOCATION: Cottesloe, WA

DCB engineering were engaged to provide structural design on a large addition to an existing multi-storey residence. The project included partial demolition to the existing house, and new structure was constructed on top of existing, and adjoining to the existing structure.



PROJECT: 2 Malone Road

LOCATION: Swanview, WA

Located on a steep sloped site in the Perth hills, DCB were responsible for designing the building to be partially on ground, and partially 'floating', suspended on a steel columns with a cantilevered floor. The site consists of rock which added complexity to the foundation design.

KEY PROJECTS | RESIDENTIAL AND MIXED USE



PROJECT: 66 Jersey Street

LOCATION: Jolimont, WA

Sixtysix Jersey is a boutique selection of 8 'penthouse-style' apartment suites. The substructure utilized piles, capping beams and raft slabs. A mixture of AFS wall system and masonry was designed for the building envelope structure and as loadbearing supports for each concrete suspended floor.



PROJECT: Claremont Residence

LOCATION: Claremont, WA

The Claremont Residence is a combination of steel frame, masonry, concrete and timber frame all situated on a sloped site. Portalised steel frames were used for stability and documentation was carried out in a 3D model using Revit BIM software.



PROJECT: The Farmhouse

LOCATION: Yallingup, WA

DCB Engineering carried out the structural design of this complex steel framed house. Using multiple worked closely with the architect to develop their details and to reduce the construction costs, whilst ensuring the architectural design of the building was never compromised.

DCB Engineering

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