



SUMMARY OF PROJECTS UNDERTAKEN BY JBD GROUP

PROJECTS

JBD Group develop synergies with our valued clients complimenting the creative design process. Through well executed digital engineering build simulation we lead the industry bringing design to reality, resulting in unique and significant construction efficiencies and design clarity.

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“As specialists in digital engineering of structural steel, timber and precast concrete detailing, our goal is to provide our clients with the expertise and support they need to quickly and profitably pre-manufacture all types of steel, timber and concrete structures, for the commercial, industrial, mining and residential sectors.”

Joe Biggs, CEO & Founder, JBD Group



VRC Club Stand

Flemington Racecourse



Project:

Flemington Racecourse Redevelopment

Builder:

Multiplex

JBD Scope:

Construction detailing and 3D modelling of feature precast panels "The Petals".

JBD Key Elements

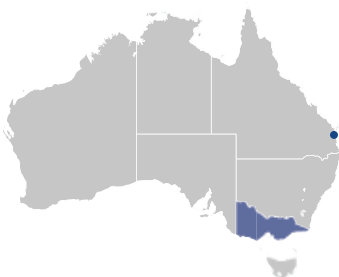
90 unique curved panels, weighing up to 30 tonnes each. Featuring complex 3D geometry integrating-aesthetics, substructure support, drainage and buildability, a demonstration of JBD's unique experience and skill.

Overview:

Multiplex completed the Victoria Racing Club's (VRC) \$128 million state-of-the-art Club Stand at Flemington Racecourse in 2018.

Designed by Bates Smart Architects, the iconic five-level Club Stand has set a new benchmark for racecourse facilities and represents the 10th grandstand to be built at Flemington since 1865.

JBD provided expertise and structural detailing for the signature feature of the project, the 'petal' projections, which forms the perimeter of the Stand at each floor.



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The Landmark

St Leonards Sydney



Project:

The Landmark, St Leonards Sydney

Builder:

Hutchinson Builders

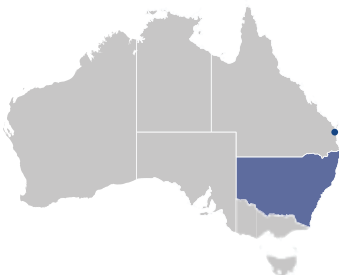
JBD Scope:

Construction detailing of precast columns and connections.

JBD Key Elements

Detailing of 1200+ precast columns over 43 levels using the innovative APTUS connection systems. JBD's ability to tailor its team to this new system quickly and efficiently combined with its depth of resource will contribute significantly to the project's success.

Overview:



The Landmark is a 43-storey tower in St Leonards from developer New Hope VIMG comprising 429 studio, one, two and three bedroom apartments and "sky homes" with three or four bedrooms.

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Bunnings Warehouse

New Structures, Renovations and Extensions



Project:

Bunnings Warehouse – New Structures
Bunnings Warehouse – Renovations and Extensions

Builder:

H. Troon Pty Ltd

JBD Scope:

Construction detailing of these large structures, utilising 3D modelling to ensure the steel structure and concrete precast panels integrated seamlessly. For the renovations, our 3D site scanning and set out services were used in conjunction with detailing.

JBD Key Elements

Detailing of more than 50 new stores and more than 150 renovations of existing stores across Australia and New Zealand. With no two stores being the same it requires the JBD team coming together to manage the critical path of these large-scale projects.

Overview:



Bunnings have 369 trading locations across Australia and New Zealand, employing 44,000 team members with revenue at \$12.5 billion (2018).

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MILVEHCOE

Military Vehicle Centre of Excellence

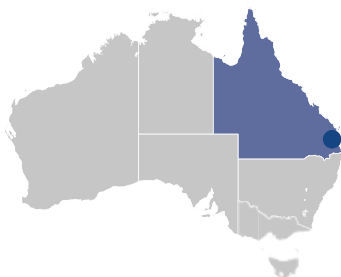


Project:	Military Vehicle Centre of Excellence (MILVEHCOE)
Builder:	Watpac
JBD Scope:	Construction detailing and 3D modelling of steel structures and precast concrete panels

JBD Key Elements

The project hosted 12 buildings over an 11-hectare site in Redbank. Delivered over 30 phases; detailing over over 26,700 members - (~2,200 tonnes); and 90+ concrete precast panels

Overview:	Rheinmetall Defence Australia was contracted to deliver the Australian Government's LAND 400 Phase 2, the Australian Army's next generation of combat reconnaissance vehicles (CRVs) on an 11-hectare site in Redbank, Ipswich.
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Malaysia Pavilion

Milano Expo 2015



Project: Malaysia Pavilion – Milano Expo 2015

Builder: Woodsfield Group of Companies

JBD Scope: Construction detailing, design collaboration and 3D modelling of Glue laminated timber structures.

JBD Key Elements

A display structure containing more than 4,500 Glulam timber components, in excess of 5,000 custom made steel connection plates using over 15,000 connection bolts. The Project was detailed in Australia by JBD, manufactured in Malaysia, shipped to Milan and installed for the Milano 2015 Expo.

JBD's ability to work collaboratively with an international design team on a world's first structure of its type shows JBD's innovation, technical depth and ability to bring to life a creative vision.

Overview:



In line with the participation theme of Malaysia in the Milano Expo 2015 in Italy, "Towards a sustainable food ecosystem", the building's design highlights the feature of 4 seeds of their rich tropical rainforest.

The seeds are constructed from Plantation Malaysian Tropical Hardwood Glulam timber shipped from Woodsfield factory in Johor. The seed design was named one of the top 3 most innovative designs by the Milano EXPO committee.

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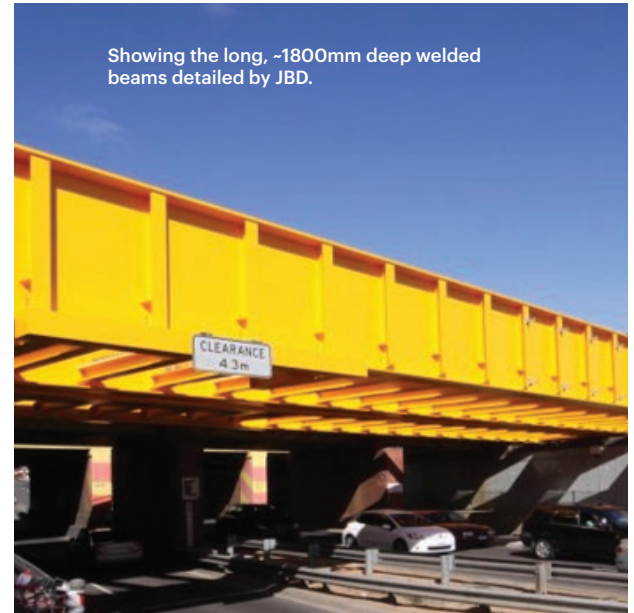
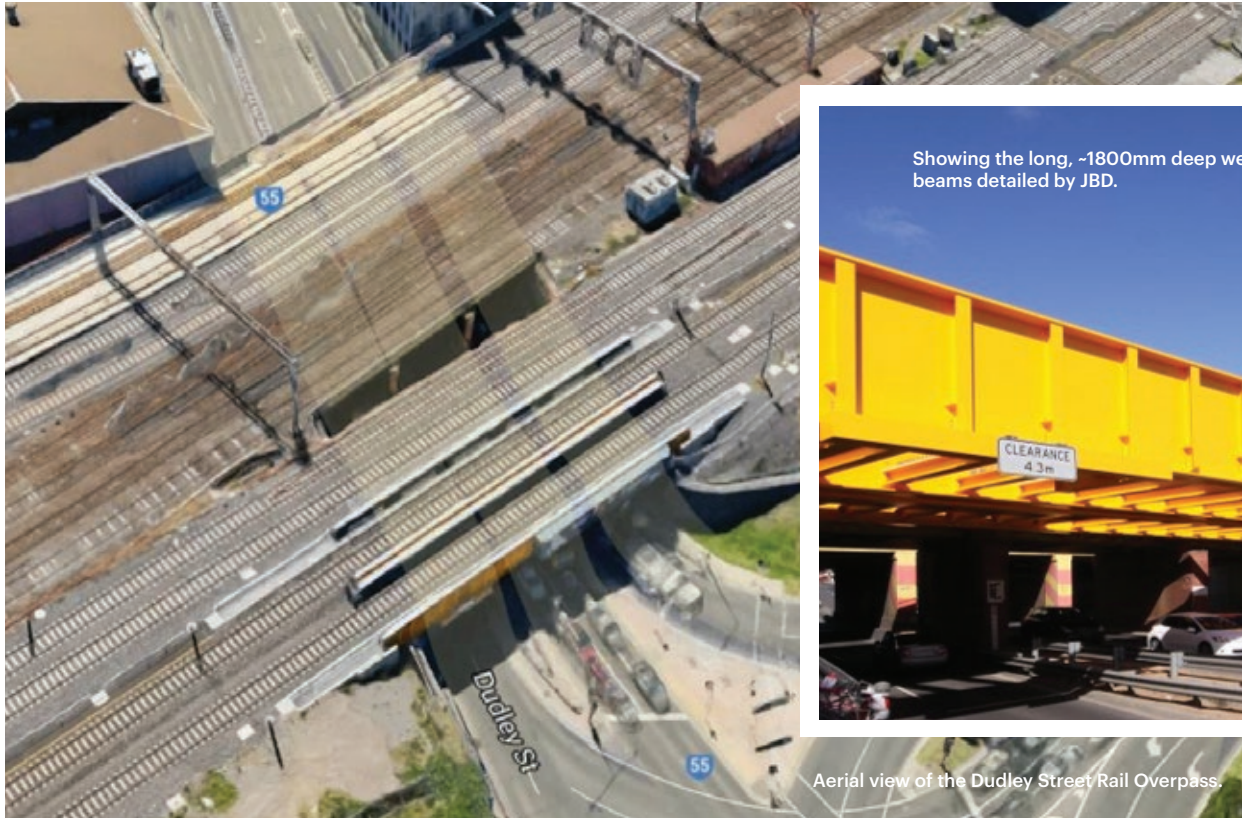
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Dudley Street

(Melbourne) Rail Overpass



Aerial view of the Dudley Street Rail Overpass.

Project: Dudley Street (Melbourne) Rail Overpass

Builder: Macfab Engineering

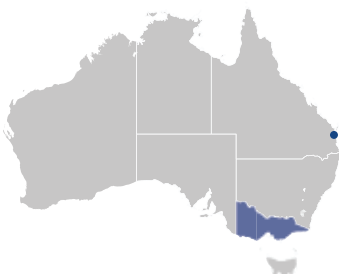
JBD Scope: Construction detailing and 3D modelling of a bridge structure.

JBD Key Elements

Design challenged by the lack of as-built drawings for the existing structures provided significant uncertainties for the construction of this rail bridge. Span arrangement, geotechnical conditions and budget constraints as well as minimal road closure of Dudley Street during construction added difficulty.

With all shutdown projects, the fitting of all components is critical the first and only time. There are no onsite acceptable remedial options with these projects, requiring the team be accurate, flexible and to use their technical expertise.

Overview:



The Regional Rail Link (RRL) project a \$4.3 billion rail line upgrade undertaken in 2012. A new rail bridge over Dudley Street (a six-lane dual carriageway) and an underground service tunnel adjacent to the street was required.

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Roma Hospital

Redevelopment



Project:

Roma Hospital

Builder:

Watpac

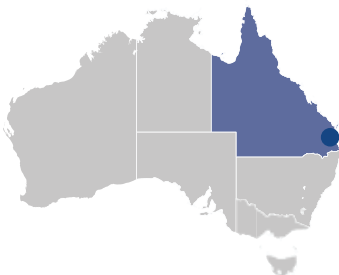
JBD Scope:

Construction detailing and 3D modelling of all steel structures.

JBD Key Elements

Construction detailing and 3D modelling of internal walls and roof structures.

Overview:



A new three level building is under construction adjacent to the existing hospital and will provide 24 beds with departments including emergency, allied health, medical imaging, inpatient wards, pathology, medical records and central sterilising. Additional facilities to be delivered include theatres, a mortuary, reception, administration areas, staff lounge, training rooms, laundry, kitchen, a cafe and plant rooms.

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Railway Station

South Morang



Project:

South Morang Railway Station

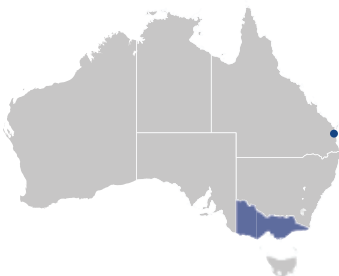
JBD Scope:

Digital engineering of the structure, construction detailing and 3D modelling of the new train station.

JBD Key Elements

JBD's depth of experience coupled with its dedication to complete complex projects within defined program boundaries contributed to this project's success. Complex connections within very narrow building envelopes required high levels of communication and collaborative problem solving. The structure was pre-assembled into large roof sections for minimal shutdown installs.

Overview:



The South Morang Rail Extension provides improved access to public transport services for Melbourne's northern communities. The design provides a sense of place for the station, reflecting how users might engage with them – as places to transit through and welcoming environments in which people might gather.

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Turtle Visitor Centre

Mon Repos

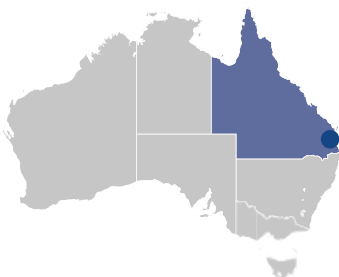


Project:	Mon Repos Turtle Centre
Builder:	Murchie Constructions
JBD Scope:	Construction detailing and 3D modelling of structural steel and glue laminated timber roof structure along with extensive 3D scanning and site set out services

JBD Key Elements

Working closely with Kirk Architects JBD's expertise with glue laminated timber structures assisted greatly with the successful installation of the timber beams which formed the roof structure. Known as a 'diagrid' (believed to be the largest diagrid in Australia) is a framework of diagonally intersecting metal, concrete or wooden beams that is used in the construction of buildings and roofs.

Overview:	A Queensland Government funded project , this brand new, multi-million-dollar Mon Repos turtle centre llocated on Mon Repos beach near Bundaberg, Queensland. The Mon Repos turtle centre will give visitors an exciting eco-based tourism experience all year round, even outside of turtle season.
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