

PRINCIPAL BUILT
ENGINEERING

66 Victor Crescent, Narre Warren, VIC 3805

+61 (03) 8564 8597

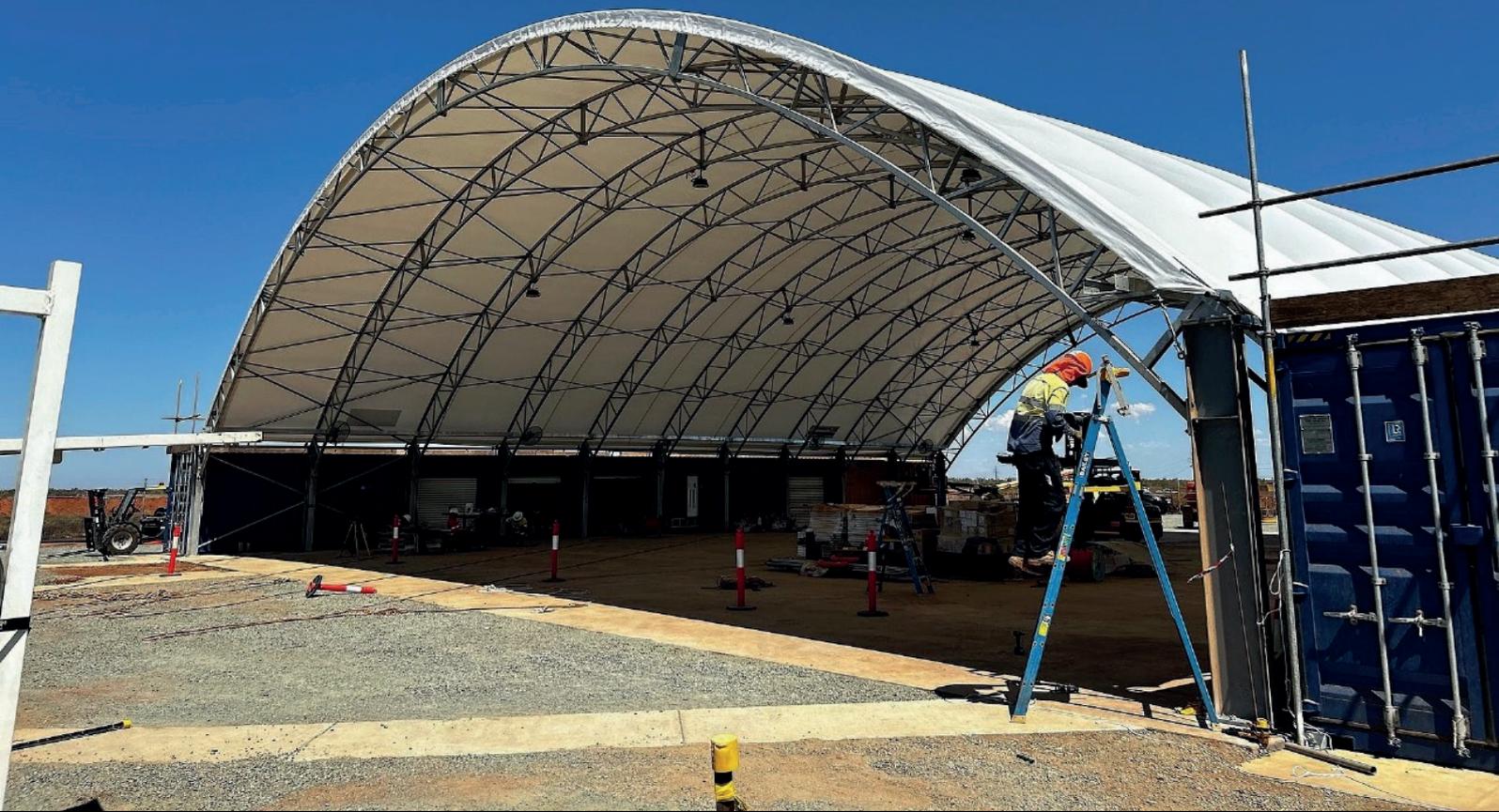
info@pbengineering.com.au

www.pbengineering.com.au

Principal Built Engineering

Capability Statement





OUR PRACTICE

Principal Built Engineering is a civil and structural consultancy headquartered in Melbourne, Victoria. We are a privately-owned company operated by our directors, supported by a highly skilled team of engineers, drafters, and technical professionals. Our strength lies in our deep technical expertise, collaborative approach, and commitment to delivering tailored engineering solutions that achieve the design intent of each project while remaining cost-effective and constructible.

We are committed to delivering engineering designs that are safe, functional, and sustainable. Our practice embraces modern design tools and techniques, and we continuously evolve to meet the changing needs of our clients. By aligning ourselves closely with architects, developers, contractors, and homeowners, we ensure that our designs respond to the unique requirements of every project.

Our practice is grounded in an understanding of local conditions, regulations, and council requirements. This allows us to navigate the approval process efficiently and deliver practical outcomes that exceed our clients' expectations.

OUR REACH

Operating across metropolitan Melbourne and regional Victoria, Principal Built Engineering has established strong relationships with local councils, regulatory bodies, and builders. We offer:

- Engineering services tailored to the Victorian Building Authority (VBA)
- Chartered engineers registered on the National Engineering Register (NER)
- Full Professional Indemnity insurance
- Responsive and agile project delivery
- Site-specific solutions backed by sound engineering judgment

Our team draws on both local experience and the latest in global best practices to ensure quality, innovation, and compliance throughout every phase of a project.

ENGINEERING CAPABILITIES

We provide end-to-end civil and structural engineering services from planning and concept development through to construction documentation, and certification. Our capabilities include:

BUILDING DESIGN:

- ▶ Residential dwellings (new builds, renovations, and extensions)
- ▶ Townhouse developments

INDUSTRIAL AND COMMERCIAL:

- ▶ Portal frame and clear-span industrial sheds
- ▶ Concrete tilt-up panels and steel-framed warehouses
- ▶ Community, aged-care and government buildings

ANCILLARY AND OUTBUILDING STRUCTURES:

- ▶ Carports, garages, and storage structures
- ▶ Timber decks, covered patios, and pergolas
- ▶ Retaining and screen walls with blockwork, and concrete
- ▶ Structural fencing and pool barriers
- ▶ Site-specific assessments for prefabricated and modular installations
- ▶ Roof structures, floor systems, and lateral stability assessments

TEMPORARY WORKS DESIGN:

- ▶ Formwork systems.
- ▶ Propping design
- ▶ Scaffold loading assessments and anchorage certification.
- ▶ Temporary retaining structures.

CONDITION ASSESSMENT REPORT

- ▶ Condition assessment investigation and remedial design
- ▶ Residential Crack and defect inspections
- ▶ Support to builders during construction through technical site advice



WHAT WE DO



DRIVING COST DOWN

Through many successfully delivered projects, we have developed a keen understanding of the main issues that drive the costs of various structures, including efficient, and rapid construction methodologies.

Our track record in “value engineering” structural design solutions has led to a range of innovative structural systems, advanced construction treatments that have reduced the capital cost of our solutions.

INTEGRATED SERVICES APPROACH

We work collaboratively with our clients as an integrated project team to provide designs that focus on safety, integrity, constructability, simplicity, innovation, and technical excellence. We work with building owners, architects, developers, contractors, and project managers, to deliver outstanding projects

CONSTRUCTION PHASE SERVICES

- ▶ Site inspections and structural compliance verification.
- ▶ Review of contractor RFI submissions.
- ▶ Variation support and design clarifications.
- ▶ Troubleshooting construction issues.
- ▶ Coordination with builders and trades.





TOOLS AND TECHNOLOGY

We utilise advanced engineering design tools and software platforms to enhance coordination, accuracy, and clarity. Our digital systems enable seamless integration with architectural models and contractor requirements. These include:

- ▶ Structural analysis and finite element modelling (e.g., SpaceGass, Structural Toolkit)
- ▶ Detailed CAD and drafting using AutoCAD and Revit
- ▶ Building Information Modelling (BIM)-ready documentation
- ▶ Council-specific templates and compliance schedules
- ▶ Cloud-based collaboration for efficient client communication and approvals

These tools support design efficiency, ensure compliance with NCC and Australian Standards.

OUR PROCESS

At Principal Built Engineering, we adopt a collaborative and responsive process throughout the project lifecycle. From initial site inspection to final certification, we remain engaged with stakeholders to ensure practical outcomes. Our process includes:

- ▶ Early consultation to understand client goals and site constraints
- ▶ Concept design and feasibility analysis
- ▶ Detailed engineering design and documentation
- ▶ Technical advice during construction and post-completion assessments

We maintain flexibility to adapt to project changes while upholding engineering integrity and safety.

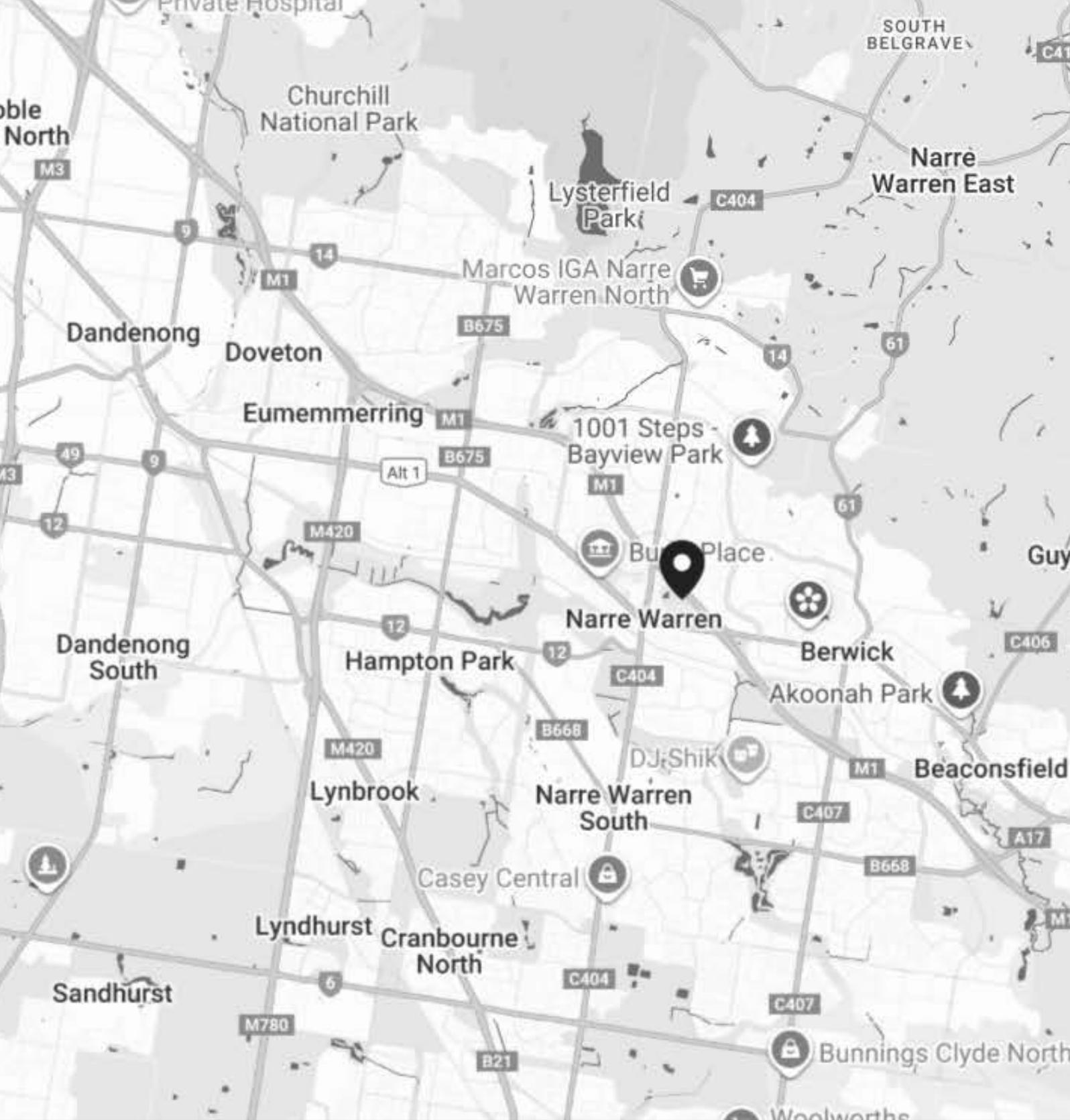
WHY CHOOSE US

Operating across metropolitan Melbourne and regional Victoria, Principal Built Engineering has established strong relationships with local councils, regulatory bodies, and builders. We offer:

- **CLIENT-FIRST APPROACH** – We prioritise buildable, cost-effective solutions tailored to project needs
- **CHARTERED PROFESSIONALS** – Fully registered with Engineering Australia and VBA
- **TURNKEY ENGINEERING** – From site inspection to final certification
- **MELBOURNE BASED** – Deep understanding of local councils, soil conditions, and climate impacts

ACCREDITATION





CONTACT US

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