

---

SECTOR BROCHURE

# Urban Civil

6 & 8 Parramatta Square — Parramatta, NSW, Australia.



**BG  
&E**  
Part of SYSTRA

---

# BG&E is an international civil and structural engineering consultancy recognised for delivering **innovative, award-winning designs** that prioritise practicality and constructability.

With a team of more than 800 people across 16 offices — spanning Australia, New Zealand, South East Asia, the United Kingdom, and the Middle East — we deliver the highest standard of service across our disciplines.

Clients consistently return to us for our responsiveness and proven ability to provide tailored solutions on complex and challenging projects. This is reflected through industry recognition, client commendations, and numerous awards.

In 2025, BG&E joined forces with SYSTRA, a global leader in public transport and mobility engineering. This partnership expands our technical capability, strengthens our international networks, and support long-term growth across major infrastructure markets and the complex buildings sector.





*Fiona Stanley Hospital —  
Perth, WA, Australia.*

---

## Urban Civil

---

**Fundamentally, we specialise in the built environment — from small scale road and asset design to buildings. Our projects range from roads, schools and hospitals to private, commercial, residential and industrial developments.**

BG&E's collective experience, nurtured over half a century of designing civil engineering projects, ensures optimal outcomes, whether it be feasibility studies, preliminary and detailed design, contract preparation or construction supervision.

As a 100% Australian- and employee-owned company, BG&E stands out in the industry due to the responsiveness and flexibility afforded by our ownership structure. When partnering with BG&E, our streamlined business model means you can deal directly with our company's decision makers for increased productivity and agility.

Additionally, we serve the market with a dedicated Urban Civil team, distinct from our broader Infrastructure team. This specialised team demonstrates the strength and value of our services, enabling us to work with clients in a highly responsive manner.

# Market Sectors

With a proven track record of excellence, we are passionate about the design and development of urban infrastructure and land development.



Aged Care



Car Parks



Civic Projects



Commercial



Cultural & Heritage



Data Centres



Education



Hospital & Health



Industrial



Land Development



Residential



Retail



Sports & Recreation



Stadia



Transport



Utility Services

# Our Capabilities

## ① FEASIBILITY

- Master planning
- Sustainable urban development
- Transportation and mobility planning
- Water cycle management planning
- Zoning and land use planning

## ② DESIGN

- Bulk earthworks and modelling
- Driveways
- Erosion and sediment control
- Pavement
- Retaining walls
- Road, intersection and path design and alignment (including cycle paths)
- Roundabouts
- Signage and line marking
- Site grading
- Stormwater drainage and detention design

## ③ CONSTRUCTION

- Bill of quantities
- Construction phase services
- Independent certification and verification
- Project construction support

## ④ ASSISTANCE & RECTIFICATION

- Condition assessment of infrastructure
- Engineering reporting
- Independent reviews
- Project management and supervision
- Rehabilitation and repair strategies
- Site remediation

# Technical Excellence

Equipped with an extensive range of in-house engineering disciplines that complement each other, we are strategically positioned to provide top-tier design solutions for urban civil sector projects.



Flooding & Hydrology



Water Infrastructure



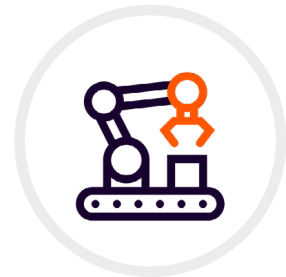
Structural (Buildings)



Façade Engineering



Sustainability



Materials & Durability



Traffic Engineering & Transport Planning

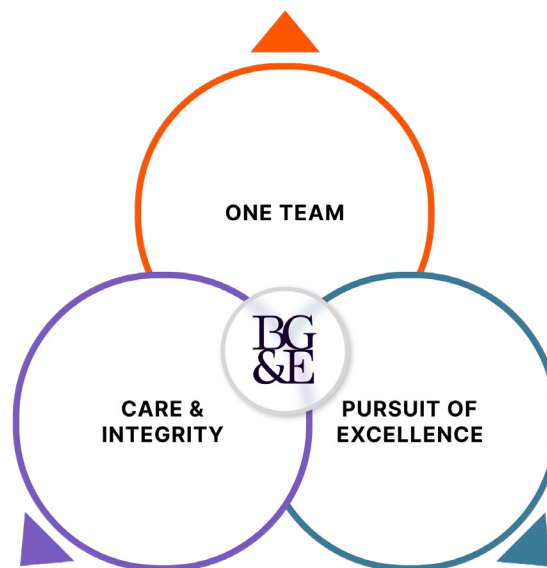


Road & Rail Infrastructure

# Why BG&E?

Every day, our decisions, behaviour and actions are guided by shared values — 'The BG&E Way'.

- Effective **stakeholder consultation and management**.
- **Harmounious collaboration** between our Structural and Civil teams ensures seamless project delivery.



- **Long-standing relationships** with industry bodies.
- We deliver on what we promise — especially when it comes to **resourcing**.
- Integrating social and environmental **sustainability outcomes** from early in design.

- Recognised as the go-to consultancy for **technically challenging projects**.
- **Innovation** is central to our service.
- **Value engineering** — to satisfy project requirements while minimising cost.

---

At BG&E, we are united by a common purpose — we believe that truly great engineering takes curiosity, bravery and trust, and is the key to creating extraordinary built environments.

Our team of more than 800 highly skilled people, in offices across Australia, New Zealand, Singapore, the United Kingdom and Middle East, design and deliver engineering solutions for clients in the Property, Transport, Ports and Marine, Water, Defence, Energy and Resources sectors.