

# EXPERTISE, COLLABORATION AND INNOVATION

*in the delivery of  
utilities infrastructure*

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# *Expertise, collaboration and innovation*

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## The Rob Carr Pty Ltd story

### WHO WE ARE

With a focus on safety, innovation and collaboration, Rob Carr has delivered outstanding outcomes in water and energy infrastructure projects for both government and private sector clients.

In collaboration with our clients, we utilise our extensive inhouse technical capabilities to self-perform our work and manage the complexities of every project, including detailed staging, complex logistics, engineering, plant customisation and maintenance, and mitigating environmental challenges.

Rob Carr is part of the VINCI Group, a global player in concessions and construction with more than 180,000 employees across more than 100 countries. This recent development translates to improved financial capability to bid, design and construct bigger and more challenging projects, with increased resourcing and speciality knowledge through collaboration with other VINCI Group companies.

### OUR VALUES AND HOW WE WORK



Safe delivery – safety is at the heart of everything we do



We are nimble and agile



We work collaboratively with clients to ensure our solutions achieve the best outcomes for them



We are reputable and reliable



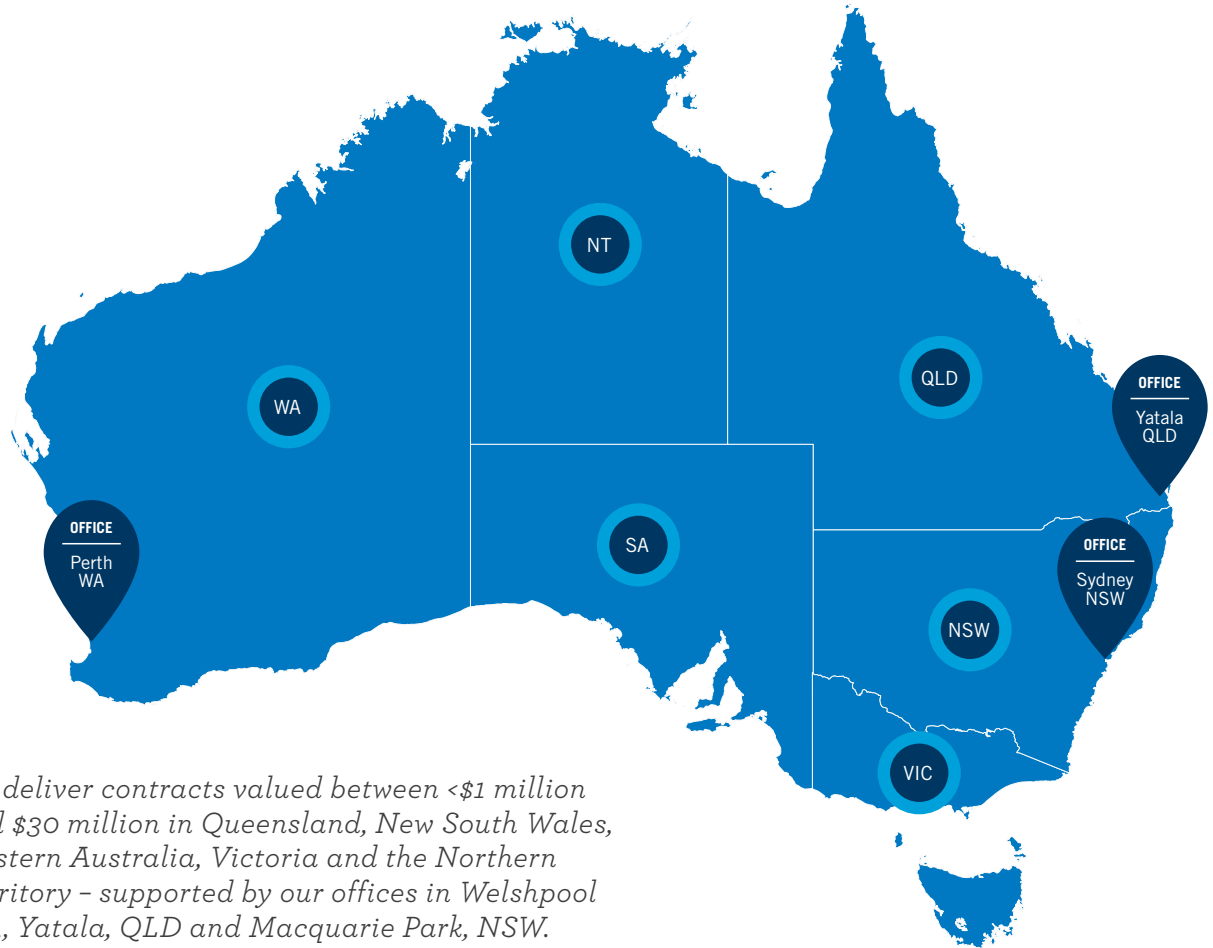
We are creative – innovative thinking is the basis of our value-add culture



We deliver on all commitments

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## WE WORK ACROSS AUSTRALIA



*We deliver contracts valued between <\$1 million and \$30 million in Queensland, New South Wales, Western Australia, Victoria and the Northern Territory - supported by our offices in Welshpool WA, Yatala, QLD and Macquarie Park, NSW.*



**1989**

The year Rob Carr was established in Victoria



**100+**

Capable and committed employees across Australia



**100+**

Number of projects awarded and completed in last five years



**3**

Certified management systems in compliance with the relevant standards for Quality (ISO9001), Safety (AS4801) and Environment (ISO14001)



**\$200M+**

Total value of projects delivered in last five years, ranging from <\$1M to \$30M



**2**

Well-equipped workshops and yards located in Queensland and WA to maintain our fleet of plant and equipment



**30+**

Size of MTBM fleet, with diameters from 150mm to 2200mm





Early client engagement and collaboration



Track record in cutovers and commissioning



Innovation solutions to project challenges



Established safety, quality and environmental management capabilities



Value-add to designs through almost 30 years' construction experience

*Our multi-disciplinary service offering ensures we are well-equipped to meet clients' needs comprehensively from concept to commissioning*



Robust safety culture that protects employees, suppliers and the public



Flexibility to lead as Head Contractor or support as Sub-Contractor



Diverse and experienced management and employees who self perform construction work

## AREAS OF EXPERTISE

- Deep shaft construction
- Trench excavation
- Pipeline installation
- Caisson construction
- Pump stations
- Tunnel construction
- Reservoir rehabilitation
- Connections and commissioning
- Infill sewers



## KEY CLIENT TESTIMONIAL

“Rob Carr was an integral part of the Alliance’s bid-winning strategy to change the construction methodology of the stormwater drain from open trench excavations to a trenchless solution. We worked closely with Rob Carr to utilise their specialist knowledge of microtunnelling in the development of our winning design, which ultimately delivered a value for money solution for the client with significantly reduced environmental and community impacts.

This collaboration with Rob Carr continued through the project delivery phase, which resulted in more effective project communications and increased productivity.

Rob Carr faced numerous challenges such as working in close proximity to underground services and live traffic, constrained site access and hidden/buried objects that delayed tunnelling progress. The team always persevered and stepped up to the demands of these complex works; and would often come up with useful innovations and practical solutions in the face of project challenges.”

**Clayton Ryder, Drying Green Alliance General Manager**  
Green Square Stormwater Drain Project, NSW

## CLIENTS

### GOVERNMENT

Queensland Urban Utilities  
City of Gold Coast  
SEQ Water  
Brisbane City Council  
Mount Isa City Council  
Townsville City Council  
Cairns Regional Council  
Toowoomba Regional Council  
Sydney Water  
City of Sydney  
Melbourne Water  
South East Water  
Water Corporation  
NT Power and Water

### PRIVATE SECTOR

John Holland  
CPB  
UGL  
Lendlease  
Downer-Tenix  
Fulton Hogan  
Seymour Whyte  
Ertech  
Georgiou Group  
RCR Water  
McConnell Dowell  
BHP  
Rio Tinto  
Various Project Alliances

# Our capabilities stretch across Australia



Microtunnelling & Civil Works  
Sub-Contract for Green Square  
Stormwater Drain Project

**Location:** Sydney, New South Wales  
**Contract duration:** May 2015–May 2017  
**Contract value range:** \$30M–\$35M

Rob Carr was instrumental in helping the Drying Green Alliance develop its bid-winning proposition to change the construction methodology of the stormwater drain from open trenching to a trenchless solution. The innovative solution achieved close to \$100M in cost savings for the project and client when compared to the original design solution, and significantly reduced environmental impacts and community disruptions. Our scope included 4km of DN1800 microtunnelling consisting of 550m of twin parallel lines and 964m of triple parallel lines using concrete jacking pipe; five caissons varying in diameter between 10–12m, and in depths between 7–10m; and eight other conventionally shored shafts up to 6m deep.



Busselton  
18A & 12C  
Infill Sewer Project

**Location:** Busselton, Western Australia  
**Contract duration:** January 2015–March 2016  
**Contract value range:** \$10M–\$15M

As Head Contractor to Water Corporation, Rob Carr was able to showcase our capabilities in various disciplines as part of a major project to connect more than 400 properties to the new infrastructure system. We delivered a new pump station including mechanical and electrical fit-out, constructed 1.75km of DN200 PE sewer pressure main and 7.1km of gravity sewer via open trenching, and undertook a 2km of DN150 and DN300 pilot and slurry microtunnelling in difficult, wet sandy ground conditions with groundwater just 1m below surface level. We also constructed a further 43 access chambers and completed kilometres of restoration works along private properties, road verges and pavements.



Metro Tunnel  
Early Works – Domain  
South Yarra Sewer

**Location:** South Yarra, Victoria  
**Contract duration:** June 2017–December 2017  
**Contract value range:** \$5M–\$10M

Rob Carr was sub-contracted by the Managing Contractor for the Metro Tunnel Early Works, John Holland, to deliver realignment of the South Yarra Sewer near the Domain Interchange. Our scope of works included microtunnelling a new 161m long 2m diameter tunnel 20m under busy St Kilda Road and live tram tracks; and the excavation and ring beam support of two access shafts at Domain Road and another two in Albert Road, between Albert Road and Domain Road. Works also included hand tunnels between the shafts, live tie-ins to the existing brick sewer, installation of GRP MH connectors, backfilling of the shafts and grouting of the old brick pipeline.



Mount Isa Sewerage  
Augmentation –  
Stage 1

**Location:** Mount Isa, Queensland, Australia  
**Contract duration:** July 2013–January 2014  
**Contract value range:** \$10M–\$15M

Rob Carr was engaged by Mount Isa City Council to manage, construct and deliver the entire project, which encompassed various disciplines. Rob Carr self-performed the major portions of work, which involved construction of approximately 8km of trunk gravity and sewer rising mains, construction of a major new sewage pumping station (PS01) inclusive of mechanical and electrical fit-out and decommissioning of the adjacent existing pump station, upgrade modifications to another existing pumping station (PS04), including construction of an emergency storage tank, construction of a new pumping station (PS18) and a further 0.8km of gravity sewer reticulation systems in two separate areas.

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## Our capabilities stretch across Australia

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Alphington  
Trunk Sewer

**Location:** Alphington, Victoria

**Contract duration:** August 2014–July 2015

**Contract value range:** \$10M–\$15M

The Alphington trunk sewer services some 85,000 homes and its replacement was a major upgrade of essential sewerage infrastructure in the area for the existing old brick sewer. Rob Carr was engaged by Lendlease to undertake the construction of approximately 1km of pipeline via microtunnelling over four separate drives. Drive lengths varied between 80m (DN700) and 585m (DN1500) on a curved alignment through environmentally sensitive parkland. We constructed the main tunnel through varying ground commencing in wet clays through to 300MPa UCS rock. To facilitate the TBM launch and reception as well as construct complex concrete maintenance structures up to 5m diameter and undertake detailed connections to existing assets, Rob Carr constructed access shafts up to 16m deep and 9m in diameter using the underpinned segment caisson technique.



**Joint National & State Winner**

**2016 Earth Awards Category 5**

(projects valued between \$30M–\$75M)



Dawesville  
1B, 4A & 5A  
Infill Sewer Project

**Location:** Dawesville, Western Australia

**Contract duration:** May 2013–September 2015

**Contract value range:** \$15M–\$20M

Rob Carr was entrusted with the delivery of this major infrastructure project to connect 444 properties to the new sewerage infrastructure. The project was located south of Mandurah, within the environmentally sensitive catchment area of the Peel Inlet where the ground consisted of saturated sands and acid sulphate soils. Given the project objective, we also had to construct approximately 75% of the alignment through densely populated residential areas. Despite these challenges, we successfully delivered the construction of 12.9km of gravity sewers, two sewage pump stations, and 1.6km of sewer pressure mains via both conventional trenching and trenchless methods, as well as 62 concrete manholes and 131 maintenance shafts.



**State Winner**

**2016 Earth Awards Category 4**

(projects valued between \$10M–\$30M)

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**YATALA**

74-76 Union Circuit  
PO Box 6103  
Yatala QLD 4207  
P 1300 883 602  
F 1300 883 605

**SYDNEY**

Level 5  
15/13 Lyonpark Road  
Macquarie Park NSW 2113  
P 1300 883 602  
F 1300 883 605

**PERTH**

5 Bellows Street  
PO Box 396  
Welshpool WA 6986  
P (08) 9358 2422  
F (08) 9358 2522