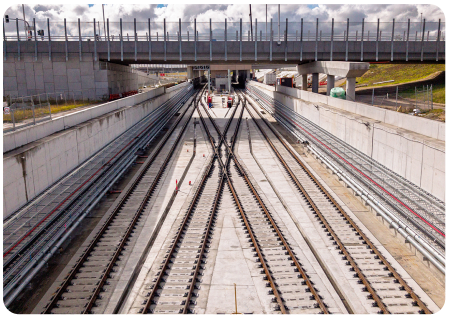

Sydney Metro Western Sydney Airport - SSTOM

Location:	Western Sydney Airport, NSW, Australia
Client:	WeBuild (a partner of Parklife Metro)
Construction period:	2025 - 2026
Services:	Delivery of complex trackwork, comprising 45 km of slab track (including 40 km delivered in nine months), 8 km of ballast track, and 1 km of embedded and pedestal track.
Executing companies:	Rhomberg Sersa Australia

As delivery partner to Webuild within the Parklife Metro consortium, we delivered a major trackwork package for the Sydney Metro SSTOM project. Our scope included 45 km of slab track, 8 km of ballasted track, and 1 km of embedded and pedestal track across tunnels, viaducts, surface alignments, and the Stabling and Maintenance Facility.

The project utilised advanced slab track technology to provide greater stability, durability, and reduced maintenance requirements compared to traditional ballasted systems. To support efficient delivery, we designed and deployed four high-production concrete placement units and implemented reusable formwork systems, improving productivity while reducing environmental impact. Despite the complexity of the alignment and varied construction environments, the project was delivered through innovative engineering solutions, advanced construction methodologies, and a workforce of more than 450 personnel at peak.

Read more:

Sydney Metro Western Sydney Airport - SSTOM

Benefits of our approach

- Delivered a large-scale, high-performance rail track system across a complex metro network.
- Accelerated delivery through the use of bespoke high-production concrete placement units.
- Improved long-term asset performance through the adoption of slab track technology.
- Reduced future maintenance requirements and lifecycle costs.
- Increased construction efficiency and consistency through innovative installation methods.
- Embedded sustainability initiatives through the use of reusable formwork systems, reducing waste and environmental impact.
- Successfully managed complex interfaces across tunnels, viaducts, surface alignments, and operational facilities.
- Delivered a critical component of Sydney's expanding metro network safely, efficiently, and to a high quality standard.

Project stats

- **Delivered 45km of continuous slab track:**
  - 23km surface (incorporating 7km on viaducts)
  - 22km tunnels
- **48 turnouts and 4 diamonds constructed:**
  - 10 turnouts on the main line
  - 12 turnouts and 3 diamonds across 3 key turnback locations
  - 26 turnouts and 1 diamond built in the stabling and maintenance facility
- **104km of rail installed** (5,800 tonnes)
- **Workforce of 450+ at peak**
- **750,000+ hours worked across the project**
- **Non-ballasted track:**
  - 671m of embedded
  - 158m of direct fix
  - 141m of pedestal
- **65,000m^3 of concrete poured**
- **Delivered and tamped 7.2 km of ballasted track**
- **80,000 sleepers installed**
- **3,700 tonnes of reinforcing steel placed**
- **6,000 welds completed across surface, tunnels and the Stabling and Maintenance Facility, including:**
  - 4,400 flash-butt welds
  - 1,600 Aluminothermic welds

Read more: