

SPEARWOOD AVENUE

road bridge over rail and roadworks



Client: City of Cockburn

Location: Yangebup, WA

Value: \$3.1 million

Completion Date: April 2004

This project involved the construction of a bridge and associated roadworks in Spearwood Avenue in Yangebup, Western Australia.

The two lane single span traffic bridge (Main Roads Bridge 5041) spans a operational rail line used for freight trains and is comprised of a composite steel/reinforced concrete deck slab with 11m high cast-insitu abutment walls all founded on large reinforced concrete footings.

The roadwork scope of works included the construction of 800m of sealed stabilised pavement including drainage, guardrail, concrete footpaths, kerbing, lighting, signage, fencing and landscaping works.

Earthworks for the bridge abutments included structural fill and rock protection to the steep batters.



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special features

- An extensive Rail Safety Management Plan was developed and used throughout all stages of the bridge construction to ensure all safety procedures complied with rail network protocols
- The roadworks involved non-complex to moderately complex traffic management and stakeholder and community involvement
- Works were carried out in close proximity to major underground and overhead services including high pressure gas lines, fibre optic and Western Power lines
- Roadworks consisted of 3,000m³ of cut and fill operations for the embankment construction and backfill to the abutments
- A total of 15,000m² of 250mm thick crushed limestone was used in the subbase
- 100mm of bitumen stabilised basecourse and 40mm of dense grade asphalt was used on the final pavement structure.

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