

WELLARD | road bridge over rail



Client: PEET Limited

Location: Wellard, WA

Value: \$1.9 million

Completion Date: June 2006

Built as part of the new Village at Wellard development, the bridge was constructed to provide access across the Perth to Mandurah Railway line on Challenger Avenue. Now Main Roads Bridge 1596, it was constructed at the same time as the electrified railway line involving moderately complex community and stakeholder interfaces with the Public Transport Authority (PTA) and contractors for the railway and land development works.

The single span bridge features a principal shared path on the southern alignment and a standard concrete footpath on the northern alignment with a provision for road widening through the centre median.

Due to the dual sided pedestrian access, electrification fences were installed on either side of the bridge, along with balustrade panels and four post guardrail.

special features

- The bridge deck comprises precast deckbeams with a cast-in-situ concrete topping, supported on cast-in-situ concrete columns
- The abutments were constructed of mechanically stabilised earth (MSE) wall panels
- Backfilling works were carried out using select fill material
- The foundation comprises large spread footings sitting on limestone cap rock
- All structural steel elements on the bridge were earthed and bonded to comply with the PTA's specifications for structures adjacent to the electrified rail
- Construction of the bridge was carried out over a railway that was under construction
- Earthworks associated with the bridge abutments included excavation in limestone cap rock.



Wedge Bridge over rail (Page 2)

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