



South Yunderup Bridge



14.28 million



2-4 years



Outcome

New traffic bridge and cycleway, and associated roadworks.



Overview

The South Yunderup Bridge is a critical transport link providing the only road access for residents within South Yunderup. Constructed in 1975, the bridge is approaching the end of its useful life and no longer meets the needs of the growing community.

A combination of localised conditions, bridge deterioration, increased traffic needs, community expectation and safety standards necessitate the bridge's replacement. While interim structural works have prolonged the bridge's operational life, these measures only delay the inevitable need for full replacement.

Bridge usage

The South Yunderup Bridge currently carries approximately 6,500 vehicles per day, with traffic volumes forecast to increase to 10,000 vehicles per day as development and population growth continue.

The recent development of the Pinjarra/South Yunderup intersection enabled the road alignment to the bridge to be improved, unfortunately the nature of the bridge and the declining state has this bridge in a critical condition.

Currently, the bridge is too narrow and creates a pinch point, therefore the approaches to the bridge require speed reduction to minimise conflict. Unfortunately, there has been a number of traffic incidents involved at the bridge location directly related to the narrowness of the bridge.

Bridge condition

In addition to the increased use, the bridge is nearing a recent Main Roads Condition Report identified the bridge has deterioration, cracking and corrosion and detailed a schedule of works required to maintain the bridge's structural integrity.

However, undertaking such work will only serve to defer an inevitable bridge replacement. It will also not address the increasing pressure of a growing population and increased traffic flow.

There has been progressive structural works undertaken with the latest in 2019 where Main Roads introduced a new propping system to support the concrete bridge beams. In doing so, the load capacity of the bridge was maintained as an interim step before replacement.

The Shire is working with Main Roads to support the ultimate replacement of the bridge. This would involve a road realignment to improve safety, support a bridge widening and enable a much-needed pedestrian/cycle safe zone.

Project benefits

- ✓ Improved connectivity and road safety
- ✓ Extension of cycle network
- ✓ Infrastructure capacity to support future residential development
- ✓ Job creation during construction.

