



engenium

smart project delivery

Demonstrated Capabilities

- Experience. We were able to guide a client who had no experience in railway work through the design and regulatory approval process so that they could focus on their core business.
- Technical competency in railway level crossing design.
- Management of subconsultants and integration of design inputs from multiple sources.
- Stakeholder and regulator management on behalf of our client.

Apple Street Level Crossing Upgrade Project Management, Engineering Design, Rail Engineering

Client City of Swan

Project Location Upper Swan, Western Australia

Scope

Engenium was engaged to provide a design for upgrading an existing railway level crossing in the City of Swan from a passive crossing to an active crossing with flashing lights and boom gates. The upgrades were required in response to forecast traffic increases associated with a new residential subdivision being released by Satterley.

Business Objective

The client hadn't been involved in railway work previously and needed someone who could both produce a suitable design, liaise with, and expedite approvals from, the various project stakeholders. These stakeholders included Arc Infrastructure as the railway operator, Main Roads WA Rail Safety Division, the Public Transport Authority, and City of Swan.

Challenges to Overcome

The biggest challenge with this project was the number of stakeholders involved for design approval. The level crossing design package was also awarded part-way through the overall subdivision design work, so Engenium had to work closely with Satterley's principal designer to ensure that our work could be integrated without excessive re-work of roadworks design already progressed by the subdivision designer.

Smarts

Engenium assembled a team of highly experienced project delivery, civil design and railway signalling personnel using both in-house and subconsultant resources to deliver the project in the most efficient way possible for our client. We pro-actively managed the relationship with the key project stakeholder, the railway operator, on behalf of our client.

Project Outcome

The project delivered a design for the required upgrade that conformed to the requirements of Australian Standards, the railway operator's specifications and was ultimately approved by all stakeholders.

Delivering Value. Delivering Results.