Corinda to Darra Rail Upgrade Project
The challenges of brownfield construction and integration while maintaining network operations

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Overview

- Alliance Details
- Project Summary
- Key Challenges
- One Project Example
- Learnings
TrackStar Alliance

- Established in June 2006
- Designed and constructed a series of rail infrastructure projects in SE Qld including:
  - Caboolture to Beerburrum track duplication
  - Robina to Varsity Lakes rail extension
  - Corinda to Darra Rail upgrade
  - Beerwah rail crossing
- Currently delivering Stage 2 of the Darra to Springfield Transport Corridor Project
Corinda to Darra in focus

Centenary Highway

Corinda Station

Darra Station

Oxley Station

Ipswich Motorway
## Project Summary

<table>
<thead>
<tr>
<th>Track &amp; Civil</th>
<th>18.5km of track; 28 Turnouts; 200,000m³ cut earthworks; 70,000m³ fill; 44,000m³ of capping, 2.4km of retaining walls; 1km of noise barrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>OHLE</td>
<td>Electrification of:</td>
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<tr>
<td></td>
<td>• third track</td>
</tr>
<tr>
<td></td>
<td>• fourth track - Darra to Highway only</td>
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<tr>
<td>Stations</td>
<td>• Oxley Station upgrade with additional platform</td>
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<tr>
<td></td>
<td>• Darra Station major upgrade, new platforms, buildings and lifts</td>
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<tr>
<td>Signals</td>
<td>34 new signal Huts, 48 new points machines, 93 new signals, 66 new AWS units and 4 new SER/PER/CER buildings</td>
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<tr>
<td>Power Systems</td>
<td>Upgrade of Corinda Feeder Station, including new PSC, new MIs for Springfield Connection prior to new TSC</td>
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Line Diagram
Key Challenges

- Limited Track Possession Windows
- Ongoing Scope Development
- Brownfield Environment
- Discipline Integration
- Existing Services and Service Conflicts
- Stakeholder Management
- Project Management
Darra Footbridge

- Add link to installation video
Darra Footbridge

Stair Tread Detail

STAIR NOSING

LANDING SLAB REINFORCEMENT OMITTED FOR CLARITY

EX 5 PL CLEAT WELDED TO ‘Z’ PLATE TO CONNECT STAIR NOSING - TYP
Darra Footbridge
Learnings

- Possession Planning
- Ongoing Scope Management
- Brownfield Environment
- Discipline Integration
- Services and service conflicts
- Stakeholder Management
- Project Management
Questions?