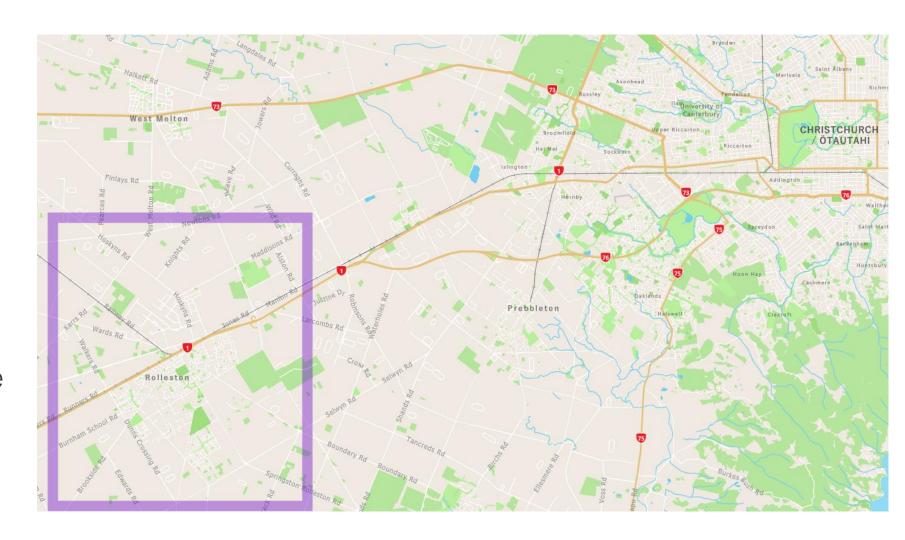


Introduction

Rolleston is situated 22km southwest of Christchurch and is accessible via SH1.

Originally a small railway junction, Rolleston has expanded rapidly and is one of the largest growing townships in New Zealand.





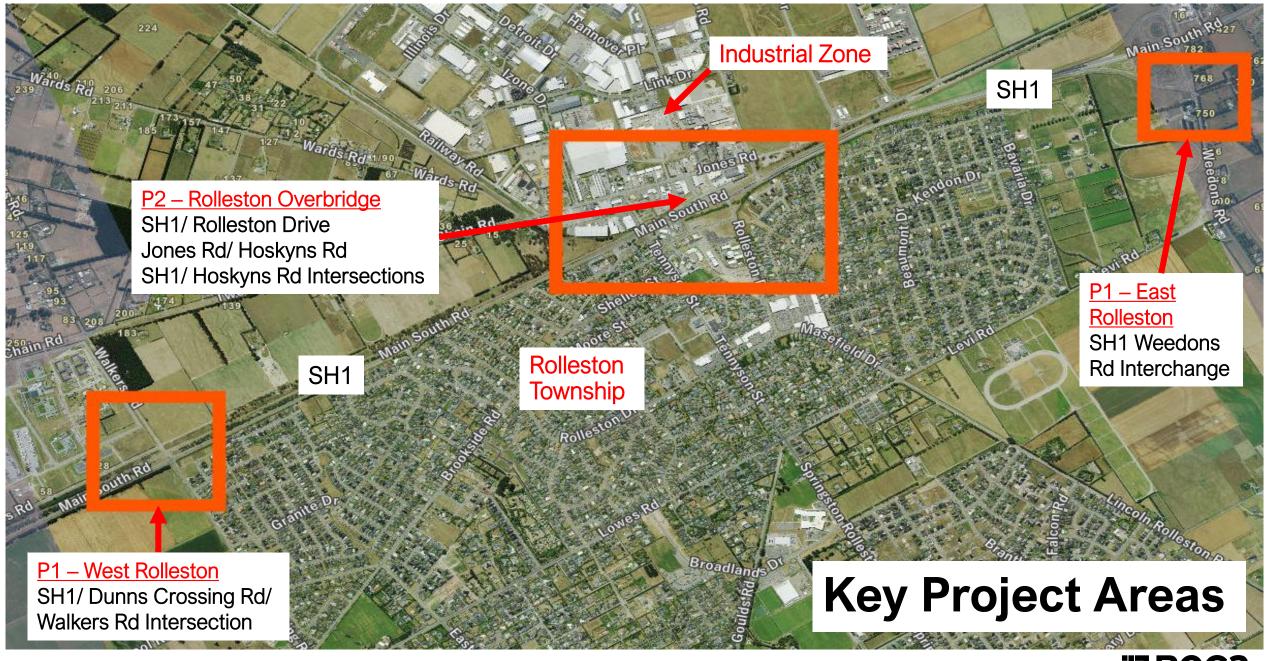
Background

- Project commenced in January 2024.
- 18 months and 16 disciplines.
- Transitioning from pre-implementation to implementation.

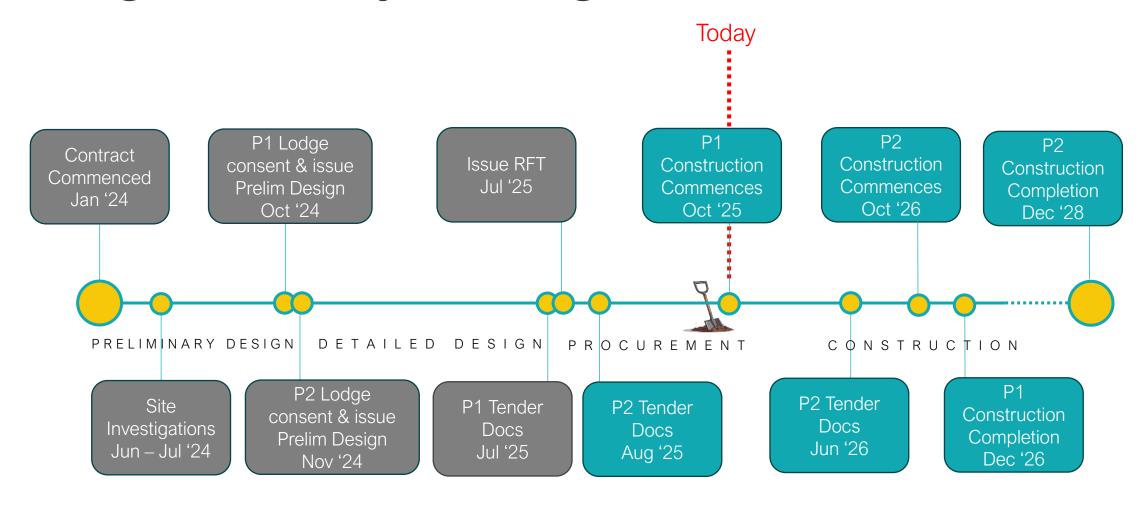
The project is being delivered in two packages:

- Rolleston West (Package 1)
- Rolleston Central (Package 2)
- Rolleston East (Package 1)



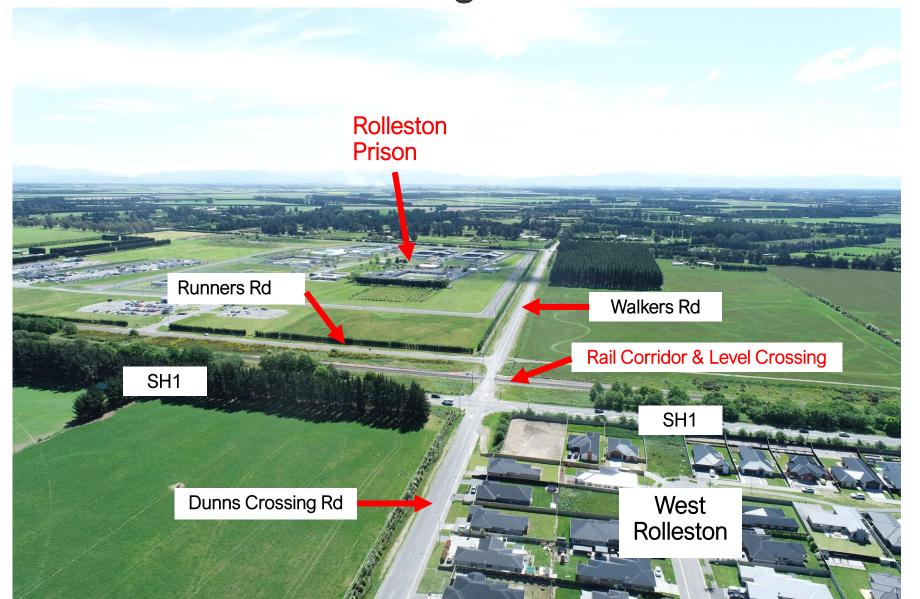


Design Delivery & Programme





<u>Area 1 – Key Challenges</u> SH1/ Dunns Crossing Road/ Walkers Road Intersection

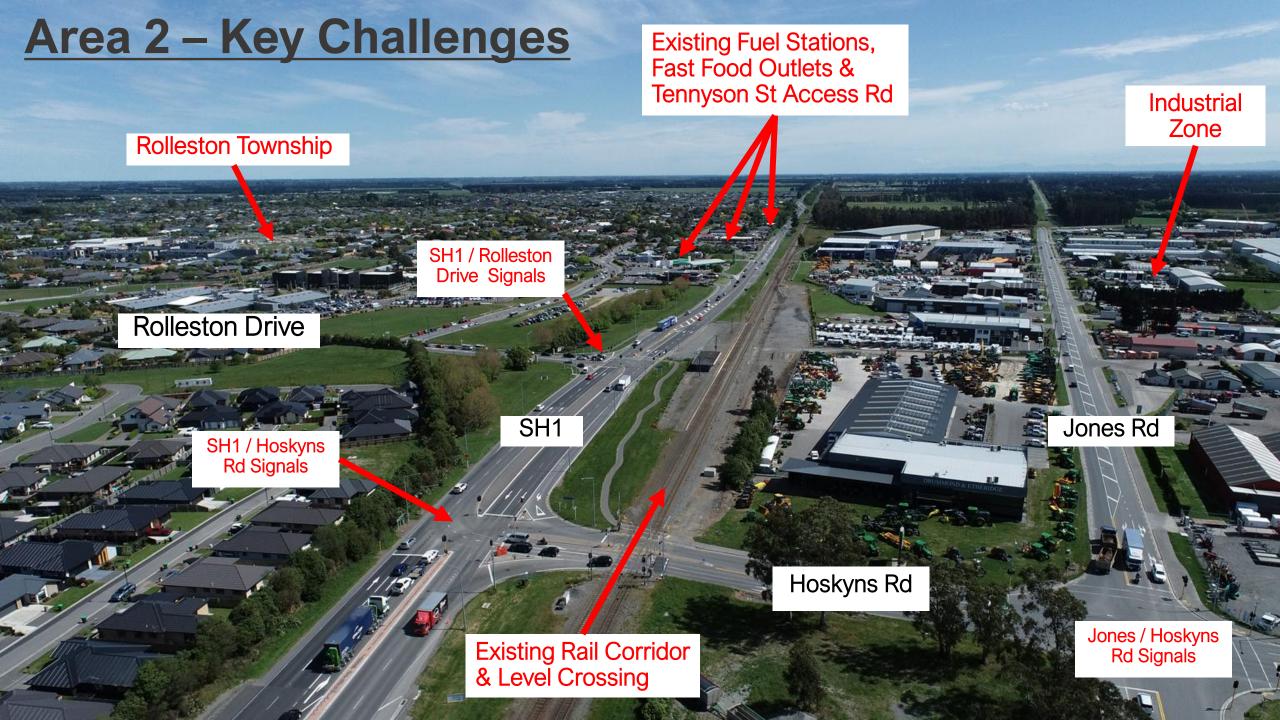


Currently a stop controlled intersection with an intersection speed zone treatment currently in place.

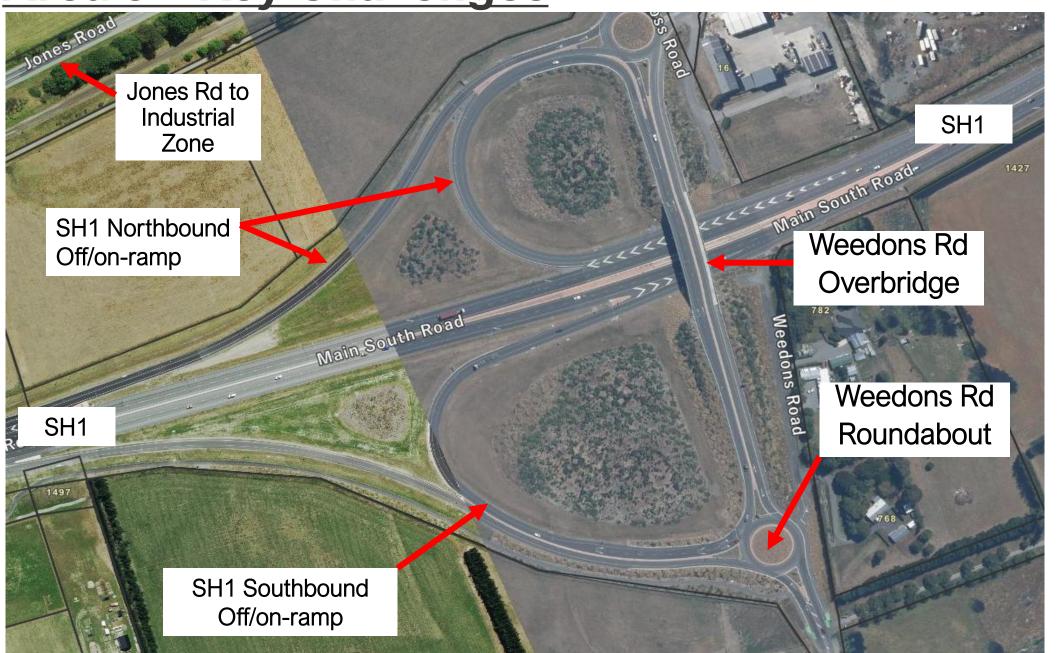
Adjacent rail corridor and level crossing.

Intersection is a high crash risk and has been for several years.





Area 3 – Key Challenges



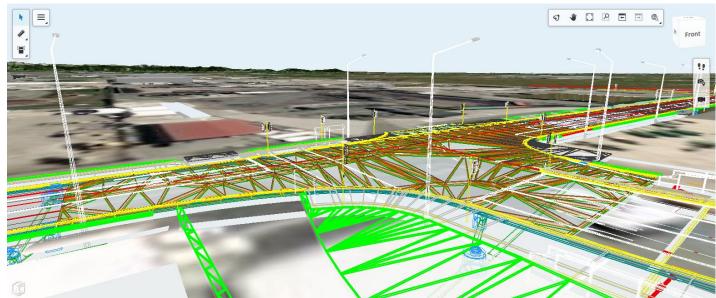
Main interchange for freight to industrial zone (via Jones Rd).

Local access to Rolleston South and Eastern areas (via Levi Rd).



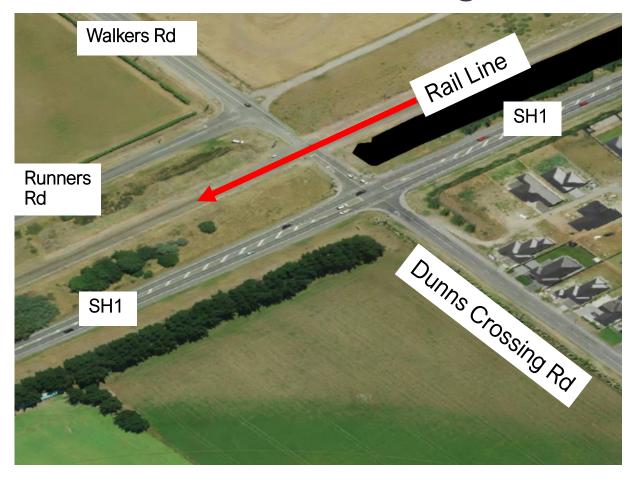
Key Risks

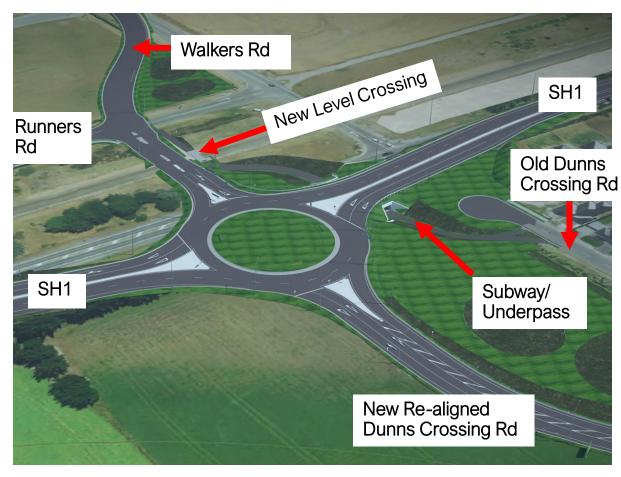
- Land property purchase, brownfield site
- **KiwiRail** design approval process and constrained by site access
- NZTA & Selwyn District Council approvals, coordination with State Highways and Local Road works.
- Utilities Deeds of Grant, design, coordination





Area 1 – Proposed Roundabout & Subway SH1/ Dunns Crossing Road/ Walkers Road Intersection



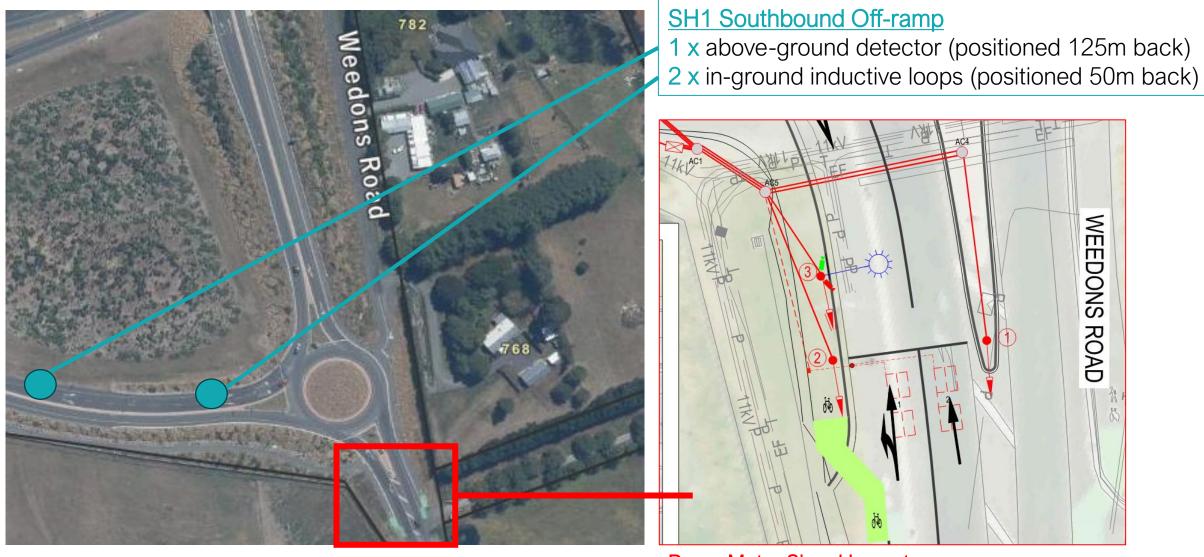


BEFORE DESIGN PROPOSED DESIGN



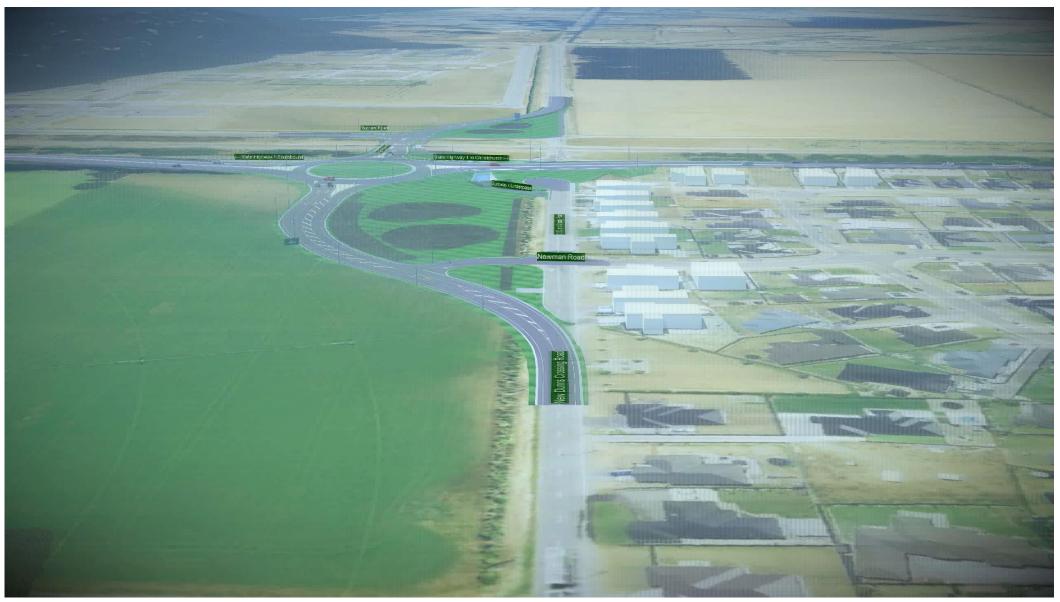


Area 3 – SH1 Weedons Interchange Ramp Metered Queue Detection Signals



Ramp Meter Signal Layout
South Approach – Weedons Roundabout (from Rolleston)

Proposed Visuals – Package 1



Proposed Visuals – Package 2



