



Hale Road and Tonkin Highway Intersection

Perth south-east corridor capacity and safety improvements

We are transforming a critical section of the State's transport network by upgrading Tonkin Highway between Roe Highway in Kewdale and Kelvin Road in Orange Grove.

We are planning to widen the Highway from four to six lanes, upgrade the intersections at Hale Road, Welshpool Road and Kelvin Road and build new facilities for pedestrians and cyclists along the corridor.

We are currently in the project development phase, which investigates and defines the project's technical scope. This involves assessing the various options for the intersection at Hale Road/ Tonkin Highway.

Early planning indicated a flyover was the preferred solution with Hale Road travelling under Tonkin Highway, to connect Wattle Grove and Forrestfield.

However, in response to community and stakeholder feedback, we sought to investigate and develop an option that also connected Tonkin Highway to and from Hale Road.

A new preferred option has been identified – a half diamond interchange with north facing signalised ramps and access to Tonkin Highway through Roe Highway Interchange (Tonkin Highway and Roe Highway access).

WHAT DID WE DO?

As part of our project development process, we conducted heritage, environmental, baseline noise, geotechnical and underground utility site surveys to identify current site constraints. We then undertook road design to assess a number of options.

In late 2019, 25 video cameras and 52 vehicle loggers/tubes were installed across the project site and surrounding areas to help us understand how traffic moves now, and how it will move in the future in the local area when the project is finished.

We considered community feedback, looked at road safety, local and regional network impacts, highway performance, environmental and cultural heritage, service requirements and costs.

We sought information from:

- The City of Kalamunda and other Government agencies about future land use planning (including the Maddington Kenwick Strategic Employment Area).
- WA Police and the Department of Fire and Emergency Services about their operations.
- Environmental groups.
- Public utility providers.

Traffic modelling will continue throughout the design process and even into construction as we plan for activities including the phasing of traffic signals.

WHAT DID WE DISCOVER?

Based on our assessment, we found the majority of traffic accessing Tonkin Highway from Hale Road is travelling to and from the North toward the Airport and City (approximately 80 per cent). Less than 18 per cent is accessing Tonkin Highway to travel to and from the south.

Based on our assessment and community feedback, upcoming design work will focus on providing a connection at Hale Road via north-facing ramps. We are working on improving this option to:

- Avoid private property land acquisition
- Minimise the project's environmental and heritage footprint
- Protect significant infrastructure assets including the Dampier to Bunbury Natural Gas Pipeline and the Water Corporation mains and valve enclosure
- Assist the City of Kalamunda in identifying local road safety measures to complement the upgrade

A half diamond interchange with north facing signalised ramps, with the improvements listed above reduces:

- the need for land acquisition
- traffic on local roads
- native vegetation clearing
- impacts to registered heritage and Bush Forever sites

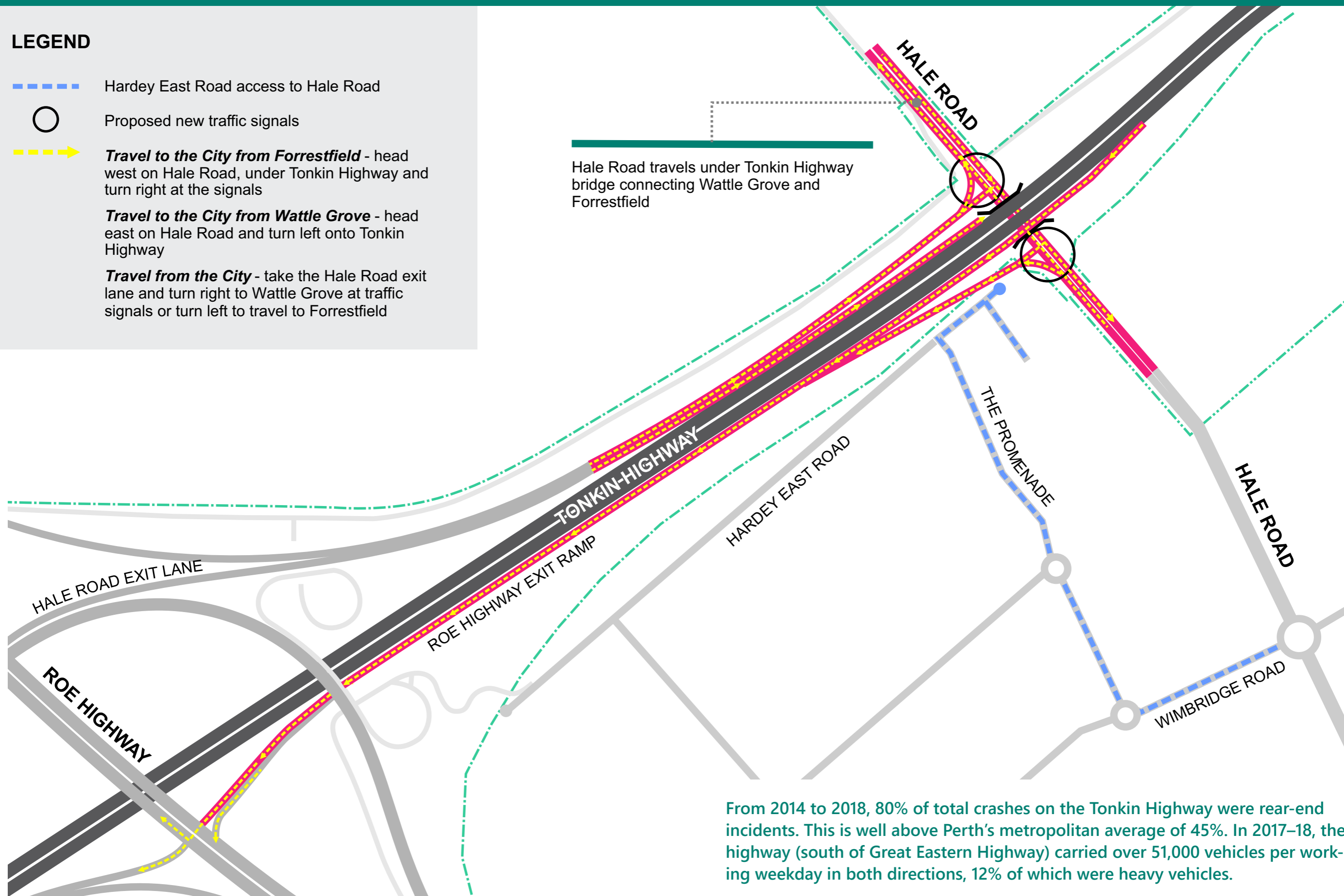
It also allows for improved pedestrian and cycling infrastructure as well as maintains connections between the Forrestfield and Wattle Grove communities.

The Perth south-east corridor capacity improvements initiative features on the Infrastructure Australia Priority Initiatives List for 2020.

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LEGEND

- Hardey East Road access to Hale Road
- Proposed new traffic signals
- Travel to the City from Forrestfield** - head west on Hale Road, under Tonkin Highway and turn right at the signals
- Travel to the City from Wattle Grove** - head east on Hale Road and turn left onto Tonkin Highway
- Travel from the City** - take the Hale Road exit lane and turn right to Wattle Grove at traffic signals or turn left to travel to Forrestfield



From 2014 to 2018, 80% of total crashes on the Tonkin Highway were rear-end incidents. This is well above Perth's metropolitan average of 45%. In 2017-18, the highway (south of Great Eastern Highway) carried over 51,000 vehicles per working weekday in both directions, 12% of which were heavy vehicles.

Hardey East Road

To fit in the northbound ramp we will need to modify access to Hale Road from Hardey East Road. Residents will need to travel approximately 750 metres via the Promenade and Wimbridge Road to access Hale Road.

There will also be changes for local businesses on Hardey East Road and Main Roads will consult directly with those impacted.

Also considered

The addition of south facing ramps – which would allow vehicles to access Hale Road from the South - were considered and found not to be a viable option.

Our traffic modelling shows there is significantly lower demand to and from the South. The project footprint would also need to be widened to include new collector-distributor roads which would add significant cost, require private land acquisition and extensive vegetation clearing within Bush Forever sites and the Department of Planning, Lands and Heritage registered Aboriginal place Welshpool Reserve (Maamba Reserve).

Next steps

We would like your input as we continue to refine the preferred option for the Tonkin Highway and Hale Road interchange. Your feedback will inform the planning and development phase of the project to determine a technical scope before procurement, detailed design and construction scheduled for late 2021/early 2022.

Community Feedback Snapshot

What you asked us	What we can achieve
Can you provide a connection from Hale Road heading North to destinations towards Perth (i.e airport/ Belmont Forum etc)?	<p>A connection has been included to allow traffic from both sides of Hale Road to travel to and from the North.</p> <p>Impacts</p> <ul style="list-style-type: none">• Access to Hale Road from Hardey East Road will be closed and entry/exit will be via the Promenade and Wimbridge Road.• Existing businesses.
Can you provide a connection at Hale Road to and from the South?	<p>This connection has been assessed, however has significant issues including:</p> <ul style="list-style-type: none">• Impact on registered Aboriginal heritage sites• Greater environmental impact on Bush Forever and identified threatened native flora and fauna• Significant additional road infrastructure and cost• Low demand
Please consider environmental impacts of increased road footprint	<p>Preferred option minimises environmental footprint by excluding south facing ramps. The project will be referred for State and Federal environmental assessment to ensure any impacts are mitigated.</p> <p>This process includes a public comment period.</p>
Consider impacts to Hale Road businesses, including access to the caravan park for tourists	<p>Preferred option includes connections to Tonkin Highway to and from the North.</p> <p>A new interchange at Tonkin Highway/ Welshpool Road will also be built to significantly reduce congestion, improve safety and traffic flow across the local area including Wattle Grove and Forrestfield.</p>
Will noise walls be built?	<p>Noise walls will be provided to comply with the Western Australian Planning Commission (WAPC) Road and Rail Noise Policy (State Planning Policy 5.4). Noise modelling informs the size and the location of any proposed walls. Consultation is part of this process which takes place at the detailed design phase (anticipated in 2021) before construction.</p>
Access impacts for emergency services in the event of bushfires and other emergencies	<p>We have been discussing operational requirements with DFES and WA Police to seek their feedback and will continue to do so.</p>

Want more Information?

Project information is available at www.mainroads.wa.gov.au/projects by emailing enquiries@mainroads.wa.gov.au or phoning 138 138. You can also register for project updates by heading to our project page and subscribing for email updates.

This document can be provided in alternative formats upon request

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