

SH20 Manukau Extension

Linking SH1 and SH20



Project Update

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Welcome to the first newsletter for the construction of Transit New Zealand's new motorway project, the State Highway 20 (SH20) Manukau Extension.

This newsletter is the first in a series of regular updates that will be sent out every three months to let you know what's happening on the project.

We'll shortly be setting up an information phone line as well as a communications office near the project to keep you in touch with what's going on.

Linking up to the City

The SH20 Manukau Extension will link the Southern Motorway (SH1) near the Manukau city centre to the Southwestern Motorway (SH20) at the Puhinui interchange. It will replace Wiri Station Road as the main link from Manukau city centre to the Southwestern Motorway.

The motorway will be four and a half kilometres long, with two lanes each way. The design also allows for a third lane each way to be built in the future. The \$210 million project will be completed by December 2010.

The Manukau Extension is a key part of the strategic Western Ring Route. Once completed, the Western Ring Route will provide a genuine alternative to State Highway 1 (SH1) between Manukau City and Albany via SH20, SH16 and SH18. Transit plans to actively manage traffic flows on both the Western Ring Route and SH1 to contribute to long-term sustainability of the network overall and to provide more reliable travel times.



Prime Minister Rt. Hon. Helen Clark, launched the SH20 Manukau Extension project on June 30 at a sod turning ceremony. The Prime Minister is seen here shaking hands with Manukau City Mayor Sir Barry Curtis, and between them is the Minister of Transport Hon. Annette King.

Easing traffic in Manukau

The SH20 Manukau Extension will take the pressure off local roads by providing a direct link from the Southern Motorway for traffic heading to the airport and central and western suburbs via the Southwestern Motorway.

It will also cut down commuting times and ensure more reliable times for journeys across the city.

"Manukau City will be transformed with much improved transport links. The traffic will be taken off Wiri Station Road and land

freed up for more businesses, apartments, shops and entertainment," says Manukau City Mayor, Sir Barry Curtis.

Manukau City Council also views the SH20 Manukau Extension as a critical connection to support future growth at the Wiri and Auckland International Airport business zones and an expected increase in population of 40,000 people at the new nearby suburb of Flatbush.



PROJECT FEATURES

1 Nesdale Avenue Interchange

Nesdale Avenue will be extended to pass under the new motorway and across a diversion of the Puhinui Stream. It will then join the existing SH20.

The Nesdale Interchange will be a major exit and entry point for traffic to and from the new motorway. Construction of the interchange will be in five stages to maintain the flow of traffic past the work site. Earthworks will begin in October 2006 and continue throughout the project until December 2010.

2 Crossing over Main Trunk Rail Line

Twin bridges will be built at this site to cross the North Island Main Trunk Rail Line. Each bridge will have four spans totalling 120 metres long. Earthworks will form a platform alongside the motorway for the future rail link to the Manukau city centre. Work on this site will get underway in mid 2008 and continue until mid 2009.

3 Lambie Drive Interchange

Traffic to and from the Manukau city centre will use this interchange as a major access point for the completed motorway in both directions. It will also be the main exit and entry point for Manukau Central Business District traffic to get to the Southern Motorway (SH1). A bridge will be built to allow Lambie Drive to pass over the new motorway. There will also be a rail underpass for the future rail link to Manukau city centre. During construction, there will be traffic shifts in Lambie Drive to allow the work to proceed. Work at this site will get underway in early 2008.



4 Barrowcliffe Place

Work at this site will allow direct bridge access from the undeveloped area south of Wiri Station Road across the motorway to the Manukau city centre. It will include a local road bridge and pedestrian access. Work at this site will start in late 2007.

The aerial photograph above shows the route for the SH20 Manukau Extension. It will have provision for a third lane each way in the future, giving six lanes in total. The project also includes earthworks for a future rail link to the Manukau city centre.

5 Great South Road

A bridge will be built at this location so the new SH20 Motorway can pass under Great South Road. The bridge will be constructed in two stages, starting in early 2007. Traffic will be shifted around the construction at various stages.

6 SH1 Interchange

The SH1 and SH20 motorways will join at this point. The interchange will feature a 240 metre long curved flyover with 10 spans. The existing exit ramp from SH1 to Great South Road will be realigned. Traffic travelling to Auckland from the south will have direct access to SH20, to the airport and the Western Ring Route. Traffic from SH20 will be able to join SH1 travelling both north and south. This interchange will be constructed in three stages, starting in early 2007 and continuing until late 2009.

When will work start on the SH20 Manukau Extension?

The first stage of the project commenced in August 2006. The first signs of work will be drilling to test soil conditions, surveying and some earthworks activity.

Who is doing the work?

The design and construction of the project will be carried out by Leighton Works, a joint venture between Leighton Contractors, an international construction company, and New Zealand-based Works Infrastructure.

An integrated team comprising personnel from both companies will carry out the construction of the project. The joint venture will utilise the project management skills of Leighton Contractors and the local resources of Works Infrastructure.

Works Infrastructure New Zealand's Chief Executive, Peter Reidy, says: "We bring to the joint venture our capability in road engineering services, civil works, road surfacing and sealing, which will include the supply of over 150,000 tonnes of asphaltic concrete from our Auckland plant facilities."

Leighton Works has contracted engineers Sinclair Knight Merz (SKM) to complete roading design, Golder Associates for geotechnical design, EDAW Jasmax as urban design consultants and Hegley Acoustic Consultants for acoustic design.

Looking after traffic and safety

At various times, traffic will be shifted to pass by construction sites to ensure the safety of both workers and motorists. Signs, flyers, and media advertisements will advise of traffic shifts during the project. The project partners will make sure people are well informed about times when traffic shifts will occur. Information will be provided about suggested alternative routes.

Bypassing the city between Manukau and the North Shore

The SH20 Manukau Extension will provide the southern entrance to the 48-kilometre Western Ring Route.

The Western Ring Route will link the Southern Motorway at Manukau city centre via the Southwestern Motorway (SH20), the Northwestern Motorway (SH16) and the Upper Harbour Motorway (SH18) before joining the Northern Motorway (SH1) at Constellation Drive.



The Prime Minister says the SH20 Manukau Extension is a key part of the Government's investment in Auckland's transport infrastructure.

Better road and rail links for Manukau city centre

The SH20 Manukau Extension also provides some preparatory work towards the construction of a rail link to the Manukau city centre, adjacent to the motorway.

The Manukau rail link will be a 1.8 kilometre connection between the existing Main Trunk Line at Wiri and a station at Manukau city centre to improve passenger services in Manukau City. Patronage of these services has risen by 70 percent in the last few years.

The SH20 Manukau Extension will help to relieve congestion on key roads around the city centre such as Cavendish Drive and Great South Road where further retail, business, apartment and entertainment developments are expected. Concurrently with the motorway works, Manukau City Council will undertake a separate project to connect Nesdale Avenue with Cavendish Drive.

Key Facts

- Four lane motorway
- Cost \$210 million
- Three interchanges
- Thirteen bridges
- 4.5 km in length
- Construction complete by December 2010
- 268,000 m² of pavement
- 140 ha site area
- 920,000 m³ of earthworks
- Connects SH1 near Manukau city centre with SH20 at Puhinui Road

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