Rob Whight

From:

Rob Whight

Sent: To:

Thursday, 9 July 2009 5:40 p.m.

Cc:

kathy.perreau@parliament.govt.nz

Dave Brash; Ernst Zollner; Geoff Dangerfield; Colin Crampton; Deborah Hume

Subject: Attachments: Briefing Paper: RoNS - MacKays to Peka Peka kapiti strategic study 2009-07-09.pdf; Kapiti_Aerial2.pdf; MacKays to Peka Peka -

briefing Paper 090709.doc

Kathy,

Please find attached the briefing paper for the Minister. It consists of:

- 1 A3 aerial photograph (colour)
- 3 A3 maps (colour)

The fact that the final two lines are marked as "colour" is important as colour has been used to assist in the explanation.

You will note that a small number of figures are not yet available and a marked as TBC. We expect to be able to provide the Minister with the estimates at the meeting next week?

Should you have any queries, please do not hesitate to contact me.

Regards,

Rob Whight

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To

Steven Joyce, Minister of Transport

From

Rob Whight, State Highway Manager Wellington

Date

09 July 2009

Subject

Update: SH1 RONS - MacKays to Peka Peka

EXECUTIVE SUMMARY

1. SH1 (Levin to Airport) is one of the seven Roads of National Significance (RONS). Once complete, this RONS will lower the cost of transport between Wellington and the rest of the North Island and improve the connectivity of the Wellington region.

- 2. The SH1 RONS has been divided into sections to enable optimal scoping and staging of improvements along the route. This update focuses on the improvement options along one section of the RONS between MacKays Crossing and Peka Peka. This section of the RONS currently operates above theoretical capacity, resulting in severe congestion at peak times.
- 3. In preparing options, we have been conscious of the need to develop the RONS in the context of the local roading network, to ensure there is efficient egress and entry to the RONS. This is difficult on the Kapiti Coast as an effective, parallel local road network does not exist.
- 4. Three options have been developed for discussion. They all perform to similar standards and appropriate parallel local networks can be put in place.
- 5. The difference between the options is characterised by varying costs and differences in the degree of community severance. Once options are refined and preliminary economic analyses have been completed, we suggest confidential key stakeholder consultation is undertaken. A full round of community engagement would then need to be undertaken, prior to any consenting stage. This work will take some three to four months to achieve and in the interim, the Kapiti Western Link Road would need to remain in a holding pattern.

PURPOSE

6. The Government Policy Statement on Land Transport Funding (May 2009) identifies the Wellington Northern Corridor (SH1 Levin to Wellington) as a RONS. The GPS states that this corridor is "one of New Zealand's most essential routes that requires significant development to reduce congestion, improve safety and support economic growth". This memo provides an update on improvement options that are currently being scoped for one section of the SH1 RONS, between MacKays Crossing and Peka Peka.

CONTEXT - MACKAYS CROSSING TO PEKA PEKA

- 7. Between MacKays Crossing and Peka Peka, the settlements of Raumati, Paraparaumu and Waikanae are key commuter belt towns for Wellington. The Kapiti Coast is one of the fastest growing districts in New Zealand. Between 2001 and 2006 the population grew by 8.8% to 46,000 in 2006. In 2008 the Average Annual Daily Traffic (AADT) at Paraparaumu was 24,500, Which exceeds the theoretical capacity of the road (approximately 22,900). In practice this means that at key times the road experiences significant delays and queuing.
- 8. The bridge on SH1 immediately south of the Walkanae township is the only road crossing of the Walkanae River on the west coast. As there is no local road connection, local traffic is forced to divert onto SH1 to cross the river. Similarly at Paraparaumu, north-south road links are limited and SH1 is often used for local north-south traffic movements. Consequently local trips and through traffic trips compete for road space on SH1 between Paraparaumu and Walkanae, which contributes to delays and queuing.
- 9. The need to improve this section of SHT has long been recognised, with the designation of the Sandhills Motorway to the west of the existing SHT dating back to the 1950s. Since 1995, improvement options have focused on the development of a local roading solution, along the same alignment as the Sandhills motorway, to provide an alternative north-south connection for local traffic and improve capacity on SHT. Local planning has proceeded on this basis for the last 14 years.
- 10. The pressure on the local network and SH1 are such that Kapiti Coast District Council has restricted key developments in the area, until improved road connections are provided (e.g. Paraparaumu Airport development).

RONS IMPROVEMENT OPTIONS - MACKAYS CROSSING TO PEKA PEKA

- 11. In order for the RONS to become a premium, high speed route between Wellington and the rest of the North Island, a holistic network solution is required. This includes ensuring that an effective local network is in place to enable people and freight to move into and out of local communities with minimal reliance on the RONS. This local network should contain streets, collector roads and local arterials.
- 12. Currently an effective local network does not exist in Paraparaumu and Waikanae because local roads radiate out from SH1 towards the beach, with very limited north-south connections. This means SH1 is the only connection between Waikanae and Paraparaumu. A well developed network to compliment the RONS is therefore an essential part of developing options.

- 13. With this in mind, NZTA is currently scoping three potential capacity improvement options to deliver on the Government's vision for the RONS, as detailed on the attached maps and summarised below:
 - a. OPTION 1: Construct a new SH1 expressway along the Sandhills Arterial route, bypassing the Waikanae town centre. The existing SH1 would revert to a local arterial.
 - b. OPTION 2: Upgrade the existing SH1 to a four lane expressway, following the alignment of the existing railway line, and provide associated local roads to improve traffic movements as follows:
 - Provide a north-south road link between Te Moana Rd and Otaihanga Rd to provide a local connection between Waikanae and Paraparaymu.
 - Provide a north-south road link between Poplar Ave and Kapiti Rd to enable the Kapiti Road signals to be closed. All local accesses will be redirected on to a service lane.
 - c. OPTION 3: Provide a hybrid of Options 1 and 2 by upgrading SH1 to a four lane expressway, with the southern section (south of Otaihanga Road) following the railway line, and the northern section following the Sandhills alignment, hence bypassing the Walkanae town centre.

PRELIMINARY OPTION ANALYSIS

- 14. Preliminary analysis indicates Option 2 would provide greater benefits through staged development and improved connectivity on local networks. It may be possible to achieve similar benefits with modifications to Options 1 and 3. Subject to further work to determine design and designation requirements, it may be possible to progress a two lane crossing of the Waikanae River ahead of other parts of Options 1 and 3, enabling early benefits to be realised. Similarly, interchange design and location also need to be reviewed for Options 1 and 3 and it may be possible to provide improved connectivity with local roads. While these amendments could in principle mean that the traffic benefit streams of all three options would be similar, it is noted that further work would be required to confirm the traffic effects of the additional local connections on the network efficiency of Options 1 and 3.
- 15. Subject to the results of further traffic analysis as noted above, the key difference between these options appears to be indicative cost estimates and corresponding differences in community severance. Preliminary costs estimates for each option are:

Option 1: \$370 - \$570m

Option 2: \$580 –\$830m

Option 3: \$440 - \$880m

- 16. Estimates for Option 1 reflect cost savings from developing the route along an existing designation (Sandhills/WLR) which has been protected from development for a long period of time. Estimates for Option 3 have been driven by property purchase costs, together with likely design and construction requirements given the route crosses a landfill site.
- 17. While Option 1 is the lowest cost option, the severance effects associated with this option are significant.
- 18. Option 1 takes advantage of the land set aside in the designation for the Sandhills Motorway/Kapiti Western Link Road (WLR) to build the expressway. This option was in fact the planned improvement for

the State Highway between 1989 and 1995. However, in October 1995 a collective decision was made by Transit NZ, Land Transport NZ and Kapiti District Council to change the purpose of the road from state highway to local road. One of the key drivers for this decision was the community severance effects associated with establishing a four lane, high speed transport corridor through existing urban areas. At that time, it was decided that the existing alignment of SH1 was better suited to act as a bypass of the Kapiti Coast communities.

- 19. These severance issues remain relevant when considering the options as currently scoped. Option 1 would result in the development of an expressway on the Sandhills/WLR alignment, which runs through the established urban areas in Raumati and Paraparaumu. Potential severance could also be caused by running the alignment between the coastal settlements of Walkanae Beach and the Walkanae town centre. However, Option 1 would avoid further severance within the Walkanae town centre town by diverting SH traffic from the current route.
- 20. Option 2 proposes to follow the existing SH alignment until Paraparaumu. To the north of Paraparaumu, the new SH alignment would follow the existing railway line, reducing severance effects, particularly in Paraparaumu. Unlike options 1 and 3, the proposed alignment would not divide the coastal communities of Waikanae from the town centre. However, severance effects are likely to be increased in the Waikanae town centre as the expressway would follow the existing alignment through the urban centre.
- 21. As noted in Option 1, Option 3 would provide a western bypass of Waikanae town centre combating some of the severance issues currently facing the township. It would also incorporate the severance benefits of Option 2 by reducing adverse effects on Paraparaumu. However, as with Option 1, these benefits would need to be tempered against the potential severance caused by running the proposed alignment between the coastal settlements of Waikanae Beach and the town centre.
- 22. Further analysis of these severance effects will be required before any decisions can be made on route selection.

DESIGNATION ISSUES

23. All three options would require new designations prior to construction of the expressways. While the designation process for each option would give rise to different issues, there is a reasonably high risk that public consultation around these processes will encounter significant local political and community opposition.

PROGRAMMING AND FUNDING

- 24. KCDC have promoted a staged completion of the currently scoped Kapiti Western Link Road (WLR). The first stage would be to make a connection between Te Moana and Raumati Road. Land Transport NZ had previously committed to fund 90% of Phase 1 of the WLR due to the improved performance of SH1 with local traffic removed.
- 25. With the strategic focus on the efficient movement of people and freight between Wellington and the rest of the North Island, the focus on the WLR, as currently proposed, is now of secondary concern. This will be a difficult situation for the local council to accept due to political promises made around progress.

26. However, clarity should occur following a stage of community consultation on the RONS option and as aspects of the WLR are contained with some options it is still relevant to maintain the WLR in the 2009/12 NLTP.

NEXT STEPS

- 27. Following alignment on the number and scope of options we would propose to undertake limited and confidential discussions with key stakeholders to assist in providing direction on the options.
- 28. We would then report the options to the NZTA Board at its August Meeting for a decision on options to for public consultation. This will enable us to make a preferred option decision before Christmas 2009.







