

## EXECUTIVE SUMMARY

Transit's forecasts of expenditure in Manawatu/Wanganui for the next 10 years are set out in Table MW1.

These forecasts of expenditure are based on a 10-year plan of maintenance and improvements, including commitments. The timeframe for the development and construction of the improvements proposed in the 10-year plan are indicative only, and might change, for example, as a result of changes in funding availability and delays in project development.

Major features of the Manawatu/Wanganui 10-year plan are:

- › fourteen more passing lanes, for development or construction in the next three years, comprising:
  - » six on SH1
  - » two on SH2
  - » six on SH3
- › the Hihitahi Bluffs Realignment on SH1, north of Taihape, for a construction start in 2010/11
- › two rural realignments at:
  - » SH1: Foxton South Curves, for a construction start in 2004/05
  - » SH57: Shannon South Curves, for a construction start in 2004/05
- › a realignment of SH4 at Kukuta to avoid a drop-out into the Whanganui River, north of Wanganui, for a construction start in 2004/05
- › two seal widening projects at:
  - » SH: Fagan Road, north of Sanson, for a construction start in 2004/05
  - » SH1: Himatangi to Levin, for investigation and design in the next three years
- › six intersection improvements including a major improvement to the Tennent Road/Old West Road intersection on SH57, for a construction start in 2005/06
- › two new cycling and walking facilities, for construction in 2005/06, comprising:
  - » a pathway at St Johns Hill on SH3 in Wanganui
  - » a wider shoulder for cyclists between Camp Road and Old West Road on SH3.

## BACKGROUND

The state highway network in Manawatu/Wanganui has been improved significantly in recent years and is now generally of a high standard. Traffic volumes will continue to grow but it is anticipated that maintenance and minor safety improvements including retrofitting will generally be sufficient to maintain an appropriate level of service. With the exception of additional passing lanes and a number of rural realignments, notably Hihitahi Bluffs on SH1 and a few realignments south of Mangaweka and at Makohine Hill and Ohingaiti, only minor improvements are required.

In the longer term, it will be necessary to upgrade SH1 to expressway standard between Levin and Waikanae, including a bypass of Levin.

### Recent Improvements

Recent improvements to the state highway network in Manawatu/Wanganui have included:

- › SH1: South of Waiouru Realignment
- › SH1: Vinegar Hill Realignment, north of Hunterville
- › SH1: Sanson to Himatangi Seal Widening and Intersection Improvements
- › SH2: Ngawaparua Curves Realignment, south of Woodville
- › SH2: Waiwaka Bridge Replacement, south of Eketahuna
- › SH3: Whangaehu Hill Realignment, south of Wanganui
- › SH3: Pauri Road Realignment, south of Wanganui
- › SH4: South of Lawrences, north of Wanganui
- › SH57: Camp Road Intersection Improvements, Linton
- › SH57: Laws Hill/Potts Hill/South of Shannon Realignments, north of Levin

Thirteen passing lanes have recently been constructed on SH1, 2 and 3. Also, four passing bays have been constructed on SH4 through the Parapas in recent years.

River protection works in excess of \$4M have recently been undertaken on SH4 adjoining the Whanganui River.

### Current Improvements

In the Manawatu/Wanganui region, the following works are currently in progress:

- › SH1: Hunterville South Realignment
- › SH1: Bulls North Passing Lane

### PROPOSED IMPROVEMENTS

The locations of Manawatu/Wanganui projects in the 10-year plan are shown on Figure MW and the expected cost and timeframe for the development and construction of these projects are indicated in Table MW2.

Large improvement projects (with construction costs more than \$3M) have been planned for 10 years and small and medium-sized projects (with construction costs of less than \$3M) have been planned for 3 years.

- › SH1: Levin to Otaki

It is proposed to ultimately four-lane SH1 between Levin and Waikanae and provide a bypass of Levin. A broad strategy has been developed for a preferred route including an eastern bypass of Levin connecting to both SH1 and SH57. At this stage, a further investigation of this route towards obtaining a designation has been deferred.

### Hihitahi Bluffs Realignment

The only major rural realignment proposed for the Manawatu/Wanganui region is the SH1: Hihitahi Bluffs Realignment, north of Taihape. Although this project is a high priority of the Manawatu/Wanganui Regional Land Transport Committee, it has a relatively low benefit cost ratio and, at this stage, has been planned for a construction start in 2010/11. In the meantime, a number of minor safety measures, eg ice warning signs, guardrails and shoulder sealing, have been implemented and the accident rate at this site will continue to be closely monitored.

### Safety Improvements

Rural realignments proposed for construction in the next three years are:

- › SH1: Foxton South Curves Realignment
- › SH57: Shannon South Curve Realignment

Seal widening projects in the next three years include:

- › SH1: Himatangi to Levin Seal Widening
- › SH1: Fagan Road North Seal Widening, north of Sanson

Improvements are also proposed to the following rural intersections in the next three years:

- › SH3: Raukawa Road, south of Ashhurst
- › SH3: Wikitoria Road, Wanganui
- › SH3: Awahuri Intersection, Awahuri
- › SH57: Tennent Road/Old West Road
- › SH57: Makerua Intersection (with SH56)
- › SH57: Queen Street, Levin

It is also proposed to install a guardrail on SH3 at McHardies Road.

## Passing Lanes

The following additional passing lanes have been included in the 10-year plan:

- › SH1: Winiata Northbound Passing Lane, south of Taihape
- › SH1: Kaimatarau Road North Passing Lane, south of Sanson
- › SH1: Himatangi to Levin Passing Lanes (four)
- › SH2: France Road Northbound Passing Lane, north of Dannevirke
- › SH2: Old Main Road Southbound Passing Lane, south of Dannevirke
- › SH3: Dalvey Road South Eastbound Passing Lane, east of Wanganui
- › SH3: Duddings Lake South Eastbound Passing Lane, east of Wanganui
- › SH3: O'Donnell and Skermanns Westbound Passing Lanes, west of Palmerston North

- › SH3: Sanson East Eastbound Passing Lane, east of Sanson
- › SH3: Manawatu Gorge West Westbound Passing Lane, west of the Manawatu Gorge

## Route Security

It is proposed to realign SH4 at Kukuta to avoid a drop-out into the Whanganui River north of Wanganui.

## Walking and Cycling

The following cycling and walking facilities have recently been constructed in the Manawatu/Wanganui region:

- › SH1: Whirokino Bridge Cycleway, south of Foxton
- › SH3: Virginia Lake Walkway, Wanganui
- › SH3: Cobham Bridge Cycleway, Wanganui

In addition, a cycleway is currently under construction at Bryants Bridge on SH57.

The following cycling and walking facilities are proposed for construction in the next three years:

- › SH3: St Johns Hill Pathway, Wanganui
- › SH3: Camp Road to Old West Road Seal Widening to provide a wider shoulder for cyclists.

## MAINTENANCE and OPERATIONS

In addition to undertaking maintenance and improvements to meet current and future levels of service, and to preserve the asset, Transit proposes to:

- › complete a reseal programme comprising 27 kilometres of highway in 2003/04
- › continue to monitor slope stability in the Manawatu Gorge and, if necessary, enhance Transit's management systems to reduce risks to safety and route security
- › continue to improve the ability to forecast ice conditions that occur in critical locations by further developing the existing weather stations in the Rangitikei.

**Table MWI****Forecasts of Expenditure on Maintenance and Improvements****Manawatu/Wanganui Region**

|                        | 03/04<br>(\$M) | 04/05<br>(\$M) | 05/06<br>(\$M) | 06/07<br>(\$M) | 07/08<br>(\$M) | 08/09<br>(\$M) | 09/10<br>(\$M) | 10/11<br>(\$M) | 11/12<br>(\$M) | 12/13<br>(\$M) | Total<br>(\$M) |
|------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| <b>Maintenance</b>     |                |                |                |                |                |                |                |                |                |                |                |
| Structural             | 6.0            | 6.1            | 6.3            | 6.4            | 6.5            | 6.7            | 6.8            | 6.9            | 7.1            | 7.2            | 65.9           |
| Corridor               | 2.5            | 2.7            | 2.8            | 2.9            | 3.0            | 3.2            | 3.3            | 3.5            | 3.6            | 3.8            | 31.3           |
| Professional Services  | 0.6            | 0.6            | 0.6            | 0.6            | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            | 0.7            | 6.6            |
| Property Management    | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            | 0.0            |
| Preventive Maintenance | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 2.1            |
| Emergency Works        | 0.5            | 0.6            | 0.6            | 0.6            | 0.6            | 0.6            | 0.7            | 0.7            | 0.7            | 0.7            | 6.3            |
| Sub-Total              | 9.8            | 10.2           | 10.5           | 10.8           | 11.0           | 11.3           | 11.7           | 12.0           | 12.3           | 12.6           | 112.2          |
| <b>Improvements</b>    |                |                |                |                |                |                |                |                |                |                |                |
| Minor Safety Projects  | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.4            | 0.5            | 0.5            | 4.2            |
| Committed Projects     | 1.0            | 0.0            | 0.3            | 0.1            | -              | -              | -              | -              | -              | -              | 1.4            |
| New Projects           | 1.5            | 1.5            | 1.6            | 1.5            | 1.5            | 1.6            | 1.6            | 4.0            | 5.8            | 7.2            | 27.7           |
| Property Purchase      | 0.2            | 0.1            | 0.1            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 0.2            | 1.6            |
| Walking & Cycling      | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 0.1            | 1.0            |
| Sub-total              | 3.2            | 2.2            | 2.5            | 2.2            | 2.2            | 2.2            | 2.3            | 4.7            | 6.5            | 7.9            | 35.9           |
| <b>Total</b>           | 13.0           | 12.3           | 13.0           | 13.0           | 13.2           | 13.6           | 14.0           | 16.6           | 18.8           | 20.6           | 148.1          |