

## **Appendix 4: Pedestrian crossing warning lights trial (Revision 1)**

### **Purpose of trial**

The purpose of the trial was to evaluate the effectiveness of a pavement embedded flashing lights warning system. This system aims to give drivers an early warning pedestrians are about to cross a pedestrian crossing.

The main objectives were to:

- i. Research in-pavement flashing light warning systems on two pedestrian crossings in Christchurch. The first involves connecting flashing lights directly to a power source, while the second system is powered by induction;
- ii. Research an in-pavement flashing light warning system on a pedestrian crossing in Auckland;
- iii. Communicate with suppliers for detailed specifications of this equipment and associated costs of acquiring, installing and maintaining the in-pavement flashing lights;
- iv. Purchase and test the technologies at the three selected crossing sites where there are existing safety concerns that need addressing;
- v. Collect 'before', 'during' and 'after' data in order to evaluate the effectiveness of the systems;
- vi. Determine preferred technology and hardware in terms of effectiveness and long-term maintenance;
- vii. Establish on-going maintenance issues, expenditure profiles and cost-benefit information;
- viii. Publish the findings of the trial in a user-friendly report.

The Director of Land Transport (Director) considered the application for a trial and his approval was published in the *NZ Gazette* on 19 January 2006. (See attached copy.)

### **Need for approval**

The Director needed to approve the pedestrian crossing warning lights as they require flashing yellow lights currently not permitted within existing rules.

### **Results**

The results of the trial over two years (from 1 March 2006 to 28 February 2008) have been positive with the warning light system shown to be effective in heightening driver awareness when approaching a crossing. The NZ Transport Agency has therefore extended the approval of the trial sites so this device can be recommended for inclusion in an amendment to the Land Transport Rule: Traffic Control Devices 2004.

### **Contact details**

For further information about the trial please contact:

David Pinkney, Christchurch City Council, PO Box 237, Christchurch  
Phone 03 941 8027 email [david.pinkney@ccc.govt.nz](mailto:david.pinkney@ccc.govt.nz)

July 2009

Traffic Note 14 Appendix 4 Rev1

Mitchell Tse, Auckland City Council, Private Bag 92516, Wellesley St, Auckland  
Phone 09 373 6352 email [mitch.tse@aucklandcity.govt.nz](mailto:mitch.tse@aucklandcity.govt.nz)

Wayne Osmer, Land Transport New Zealand, PO Box 13 364, Christchurch  
Phone 03 964 2840 email [wayne.osmers@landtransport.govt.nz](mailto:wayne.osmers@landtransport.govt.nz)