



Temporary traffic management

Case Study

Safety Essentials: Accommodating Pedestrians and Bicycle Riders at Temporary Road Works.

As part of the Construction Trucks and Community Safety project, the Department of Transport and Planning ('DTP') developed a suite of resources to assist temporary traffic management companies in their temporary traffic management planning around worksites. These are designed to improve temporary traffic management by increasing the safety of vulnerable road users ('VRUs'), particularly pedestrians and bicycle riders.

A key resource is the 'Safety Essentials: Accommodating Pedestrians and Bicycle Riders at Temporary Road Works' Best Practice Guidance document.

This resource is designed to be used as a reference tool by companies that are in the process of developing and implementing Traffic Management Plans ('TMPs') and Traffic Guidance Schemes in Victoria. The document summarises temporary traffic management industry standards and guidelines concerning pedestrians and cyclists, including those contained within the Austroads Guides to Temporary Traffic Management ('AGTTM').

The issue/ risk identified

There is currently in excess of 119 major roads and rail projects being delivered across Victoria, with a significant number of impending projects in the planning stages. Given the present transport construction boom, the need to ensure effective temporary traffic management planning to best protect VRUs is essential. Without sufficient planning and consideration, VRUs can be forced onto the road and be put at unnecessary risk.

Extensive temporary traffic management planning is required to minimise disruption to all modes of transport, and ensure that pedestrians and bicycle riders are kept safe. There is therefore a need to ensure that those responsible for TMPs around construction sites adequately consider the safety of pedestrians and bicycle riders in their planning.

Delivery approach

The resource combines existing standards, together with guidance and advice to reduce the risks that VRUs, particularly pedestrians and bicycle riders, may be exposed to around construction sites.

The document is divided into four key areas:

- Pedestrians and bicycle riders in TMPs
- Planning and risks
- Examining the context of a worksite location
- Key design topics

The first section summarises the existing Australian standards, guidance and principles that apply to temporary traffic management considerations of pedestrians and bicycle riders.

The 'planning and risks' section describes the core function of a TMP in identifying, analysing and managing all possible risks and encourages use of the safe system approach. This section lists the common issues and associated risks from the AGTTM1.1 that can arise in TMP in relation to pedestrians and bicycle riders.

The third section of the document prompts users to consider the context of the worksite when planning temporary traffic management. This includes familiarisation with relevant data for the location and with network priorities and dominant transport modes, in order to best cater for the anticipated road users.

The final section of the resource identifies a series of key design topics to facilitate a safer environment for pedestrians and bicycle riders. Those responsible for developing, reviewing and implementing TMPs are encouraged to draw upon these topics to ensure that pedestrians and bicycle riders have been properly considered in their planning.

Stakeholder consultation undertaken to development/implement the initiative

This resource was developed as part of the *Construction Trucks and Community Safety* project in consultation with Melbourne Metro Rail Authority (now Rail Projects Victoria) and the Aurecon Jacobs Mott MacDonald joint venture.

The document has been recently updated to reflect the 2021 updates to the AGTTM, which include additional elements concerning VRUs.



Figure 1. Delineation of cyclists from traffic lane



Figure 2. Incorrect usage of tape adjacent to live traffic lane

Temporary traffic management Case Study

Relevant images & additional resources:

The document contains various images and diagrams that can be used to guide temporary traffic management planning, including examples of accepted practices versus unaccepted practices. See examples.

The resource is accompanied by a series of appendices and background papers that provide further details on various topics raised, including speed, paths, routing and signing:

- Appendix A - List of Signs
- Appendix B - Data Collection
- Background Paper 1 - TMP Requirements and Approval Process
- Background Paper 2 - Paths (Alignment and Surfaces)
- Background Paper 3 - Signage and Sign Specification
- Background Paper 4 - Speed

Project summary

This resource summarises the existing standards, guidelines and advice for temporary traffic management planning around pedestrians and bicycle riders. It was specifically designed with the safety of VRUs at the forefront, to ensure that temporary traffic management planning adequately considers the implications of alternative traffic pathways on pedestrians and bicycle riders.

With increasing numbers of people walking and cycling in Victoria, together with the demand for greater density in land use, it's becoming even more important to actively consider VRUs in temporary traffic management planning.



Figure 3. Temporary barriers to protect cyclists from truck movements out of site



Figure 4. Temporary sign leaving inadequate width on footpath for pedestrians