

ROAD MANAGEMENT PLAN – SUMMARY OF CHANGES from 2017 to 2020

	RMP – ADOPTED 2017	RMP - AMENDED 2020
1 Executive Summary	Missing	Added
2 Introduction	1.2 Plan Objectives – Removed and replaced by Purpose of the RMP	2.2 Purpose of the RMP - Added
	1.4 RMP Audit and 1.5 RMP Review – Removed and replaced by Section 7 Review and Consultation of the Amended RMP	7 Review and Consultation - Added
	1.6 Stakeholders – Removed from Introduction	Stakeholders included in Section 3 Road Users Rights and Responsibilities
3 Road Users Rights and Responsibilities		3.2 Road Users Rights and Obligations - Added
	1.1 Overview talks only about Road Management Act 3.3 Bridges moved and clarified in section 6.2.5 in 2020	3.3 Legislative Control – Added and relevant legislation spelt out more clearly. This section includes information of the Local Government Act, the Road Management Act, and Codes of Practice Re section 6.2.5 bridges, more detail provided particularly around inspection levels 1-3 for different types of bridges. Note timber bridges now includes clarity around risk and timing of level 3 structural inspections.
4 Management of Road and Road Related Assets	Section 2 Road Management Scope, Roads Register, Roads & Pathways hierarchy etc amended to form new 2020 Section 4- Management of Road and Road Related Assets.	Road and Path Hierarchy and descriptions included in Section 4. The path Hierarchy has been amended. Was previously: <ul style="list-style-type: none"> • Primary • Recreational • Secondary Hierarchy is now as follows: <ul style="list-style-type: none"> • High • Low Descriptions have been provided in regards to classification. Primary and Recreational are considered High, Secondary is considered Low.

ROAD MANAGEMENT PLAN – SUMMARY OF CHANGES from 2017 to 2020

	2.2 Exceptional Circumstances has been moved	2017 item 2.2 Exceptional Circumstances has been moved to Section 6.4 – Maintenance Management and Inspections in 2020 review
	Section 2.2 Demarcation of Responsibilities amended to form a new Section – Section 5 Demarcation	
5 Demarcation - Responsibilities		New Section added to reinforce responsibilities for operational management of the road.
6 Maintenance Management – Inspections	Section 3 Inspections has been amended to form a new Section – Section 6 Maintenance Management Inspections	<p>New Section added to discuss Council’s duty to inspect, maintain and repair roads and paths.</p> <p>Also more definition of different types of defects and associated codes that will be used with Assetic’s asset management tablet mobility codification of defects.</p> <p>The major change is to response times which have largely been lengthened based on relative risk, available resourcing, and the need for less inefficient reactive response and more programed planned and bundled maintenance resulting from proactive inspections.</p>
		Proactive Inspections – Inspection frequency clarity inserted, particularly around bridges
7 Review and Consultation		
8 Definitions		



MANSFIELD SHIRE

ROAD MANAGEMENT PLAN

Amended 2020



Mansfield Shire Council
Version 5.1 Endorsed _

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Version Control

Version	Date	Changes/Amendment
V1.00	8/11/2004	Endorsed by Council at its meeting 8 November 2004 Gazetted 2 December 2004.
V2.0 Draft	3/10/2006	Reviewed and updated following completing the “Infrastructure Asset Management Plan”.
V3.0	9/11/2007	Endorsed by Council at its meeting November 2007 Gazetted 3 January 2008
V4.0	30/7/2014	Endorsed by Council at its meeting August 2017
V5.0 Draft	09/08/2019	Commencement of RMP Amendment
V5.1 Draft	03/03/2020	Update of 2019 RMP Amendment for 2020 Council review

1 EXECUTIVE SUMMARY

Mansfield Shire Council is custodian to an extensive range of community assets which have been provided to facilitate service delivery to the community. As custodians, Mansfield Shire Council must ensure that these assets are responsibly maintained “fit for purpose” and meet the functions intended of them in terms of safety, quality and functionality, subject to budget constraints.

Roads in which Mansfield Shire Council are responsible for maintaining are listed in Council’s Register of Public Roads. These roads are inspected, maintained and renewed at frequencies based on; a roads relative importance/ hierarchy, determined intervention levels relating to Level of Risk and risk, and prioritisation of available funding.

With an extensive road network comprising of 280 km of sealed road and 580 km of unsealed road, the provision and maintenance of roads assets is a core function of Council. Included within this road network, Council is responsible for the management and maintenance of 37 road bridges, 21 footbridges, 181 major culverts, and approximately 83.7 km of kerb and channel, 30.5 km of concrete footpath, and 56.1km of shared path/ bike path and rail trail.

Legislation such as the Road Management Act 2004 (the Act) reformed the law relating to road management and outlines the rights and responsibilities of road authorities and road users. Council has a role to ensure that they have a maintenance management system by which they can discharge their duty to inspect, maintain and repair Public Roads for which they are responsible. Road users have a role in ensuring that they meet their own ‘duty of care’.

This Road Management Plan (RMP) has been developed to facilitate a risk management approach to the management of Council’s road network. This RMP is intended to encompass road users’ needs and expectations within an economic framework based on meeting ‘fit for purpose’ maintenance standards relative to the function of the road network.

Council’s RMP considers affordability, available resources and risk management. The RMP sets ‘levels of service’ that meet the community’s ‘reasonable’ expectations of day to day maintenance. The RMP documents Council’s road management processes.

Triggers for change and or updating of this plan can be significant amendment to target levels of intervention, changes in legislation and or the statutory requirement to formally review the plan every four years. Whilst the last plan endorsed by Council on 15 August 2017 is not due until 2021, it is appropriate to now update the plan in view of:

- Adjustment of some frequencies for inspection and or intervention in keeping with Council’s existing resources;
- Changing perceptions of relative risk;

- The need for more simpler classification/ recording of defects as part of Council’s roll out of the Assetic Asset Management system and infield tablet mobility recording of data.

Where unusual circumstances present Council with a situation where it cannot meet its frequency of intervention levels outlined in this plan, Council can suspend its obligations by the direction of Council’s CEO.

2 INTRODUCTION

Road Management Act 2004 (the Act), introduced in 2004, reformed the law relating to road management in Victoria by removing ‘nonfeasance’ as a defence for a Road Authority and replacing it with the requirement to implement a responsible inspection and maintenance regime.

As a result of the introduction of the Act, Road Authorities were advised to develop a Road Management Plan (RMP). This document constitutes the Council’s Road Management Plan.

According to section 19 (1) of the Act, “a road authority must keep a register of public roads specifying the public roads in respect of which it is the coordinating road authority”. All roads included in the Register of Public Roads will be inspected and maintained in accordance with this RMP. The RMP will provide the governing framework that defines intervention levels in regard to road asset maintenance.

2.1 Overview

The *Road Management Act 2004* was developed to provide a safer and more efficient road network within Victoria. The key principles of the Act include:

- Clarification of civil liability laws for the management of roads.
- Establishing processes and accountabilities for policy decisions and performance standards.
- Clear allocation of road asset ownership and management.
- Provision of operational powers to achieve targets and performance standards.

The Act provides councils and Local Government Authorities with the following:

- The ability to develop and adopt a practical Road Management Plan and associated maintenance policies and procedures.
- The opportunity to be consistent in updating road provisions for declared roads, including freeways and arterial roads managed by VicRoads, and public roads managed by councils and other Local Governments Authorities.
- A clear definition to allocate the responsibilities between Road Authorities through a Code of Practice for managing different road elements (i.e. carriageway, footpath, parking area, school crossing).
- A definition of the powers and obligations with regard to Traffic Management, Access Management, and Works within Road Reserves, by utility providers and other entities.

- The minimum threshold amount on financial claims against a road authority for property damage that has resulted from road conditions.
- An outlined frame work to allow VicRoads, councils and other road authorities (i.e. DEPI) to enter into arrangements to transfer or delegate responsibility from one authority to another, for operational/coordination functions.

2.2 Purpose of the RMP

In accordance with the Act the purpose of the RMP is to:

- Integrate with a Register of Public Roads for which Council is responsible;
- Document a system for the prioritised maintenance of roads and road related infrastructure consistent with the requirements of the Act, while recognising resource limitations;
- Specify intervention levels for routine inspections, maintenance and repair for roads which Mansfield Shire Council is responsible for;
- Detail the system that Council proposes to implement in the discharge of its duty to inspect, maintain and repair public roads for which the Council is responsible; and
- Provide a public working document for all stakeholders.

2.3 RMP Availability

A copy of the Plan can be obtained or viewed by the public at:

Council Office 33 Highett St, Mansfield VIC 3722
Council Website www.mansfield.vic.gov.au

3 ROAD USERS RIGHTS AND RESPONSIBILITIES

3.1 Key Stakeholders

Stakeholders are considered to be both managers and users of the road network. The following are regarded as stakeholders:

- Mansfield Shire Council (as the coordinating authority);
- Residents and ratepayers of Mansfield Shire Council;
- Mansfield Shire Council's Insurer;
- Road users (including drivers and passengers, motorcyclists, cyclists and pedestrians);
- Tourists and visitors to the area;
- Emergency Service Agencies (including Police, Fire, Ambulance and Victorian State Emergency Service);
- Utility Service Authorities (water, sewerage, electricity, telecommunications);
- Other road authorities (including Regional Roads Victoria- RRV, DELWP, adjoining municipalities); and
- Consultants and Contractors (design, construction and maintenance personnel who build and maintain the road asset).

3.2 Road Users Rights and Obligations

The RMP not only documents the intended 'duty of care' by Council to manage and maintain the local road network but also details the 'duty of care' that must be adhered to by users of the local road and path network. Users of the local road and path network include, but are not limited to a person driving a motor vehicle, cyclists, and pedestrians.

All road users have a duty of care under the Act. Section 106 and 138 prescribe particular obligations as contained in Section 17A of the Road Safety Act 1986 which states that:

- 1) A person who drives a motor vehicle on a highway must drive in a safe manner having regard to all relevant factors including (without limiting the generality) the –
 - a) physical characteristics of the road;
 - b) prevailing weather conditions;
 - c) level of visibility;
 - d) condition of the motor vehicle;
 - e) prevailing traffic conditions;
 - f) relevant road laws and advisory signs;
 - g) physical and mental condition of the driver.
- 2) A road user other than a person driving a motor vehicle must use a highway in a safe manner having regard to all the relevant factors.
- 3) A road user must –
 - a) have regard to the rights of the other road users and take reasonable care to avoid any conduct that may endanger the safety or welfare of other road users;
 - b) have regard to the rights of the community and infrastructure managers in relation to road infrastructure and non-road infrastructure on the road reserve and take reasonable care to

avoid any conduct that may damage road infrastructure and non-road infrastructure on the road reserve.

c) have regard to the rights of the community in relation to the road reserve and take reasonable care to avoid conduct that may harm the environment of the road reserve.

3.3 Legislative Control

3.3.1 Local Government Act 1989

This Plan has been developed to reflect the purposes and objectives of Council as specified in Sections 6 and 7 of the Local Government Act 1989. The Local Government Act 1989 contains the legislation relating to the care and management of all public highways vested in the Council and all roads that are the subject of a declaration under Section 204 (2).

Section 205 (2) states: A Council that has the care and management of a road –

- a) Must ensure that if the road is required for public traffic, it is kept open for public use (subject to the exercise of any powers that it has to the contrary under Schedules 10 and 11),
- b) May carry out work on the road, and
- c) Is not obliged to do any particular work on the road, and in particular, is not obliged to carry out any surface or drainage work on an unmade road.

3.3.2 Road Management Act 2004 (the Act)

The Act is based on the following key principles:

- Clear allocation of road asset ownership and management;
- Established processes and accountabilities for policy decisions and performance standards;
- Provision of operational powers to achieve targets and performance standards; and
- Clarification of civil liability laws for the management of roads.

The objectives of the Act are to:

- Establish a statutory framework for the management of the road network;
- Set out certain rights and duties of road users;
- Establish the general principles which apply to road management;
- Provide for the role, functions and powers of a road authority;
- Provide for the making of Codes of Practice;
- Facilitate the making of road management plans;
- Enable the declaration and discontinuance of roads;
- Provide a process for the declaration and classification of roads and the re-allocation of management responsibility for roads;
- Provide for a road authority to keep a Register of Public Roads in respect of which the road authority is the coordinating road authority;
- Provide for the construction, inspection, maintenance and repair of public roads;
- Set out the road management functions of road authorities;
- Set out the road management functions of infrastructure managers and works managers in providing infrastructure or conducting works;
- Provide guidance for issues relating to civil liability arising out of road management;
- Provide mechanisms to enforce and administer provisions of the Act.

3.3.3 Codes of Practice and Other Documents

The main purposes of Codes of Practice and or other documents are to provide practical guidance —

- By setting out benchmarks of good practice in relation to the performance of road management functions by road authorities and the conduct of works managers, infrastructure managers and providers of public transport;
- By clarifying or determining how the operational responsibility for different parts or elements of a road reserve is to be allocated between road authorities;
- To road authorities in determining how to allocate resources, develop policies, set priorities-

Council will comply with the following Codes of Practice and or other documents :

- Road Management Plans;
- Council Municipal Emergency Management Plan;
- Council Asset Management Plans (currently being developed);
- Council's Transportation Asset Strategic Business Process Manual;
- Roads Register;
- Roads Conservation Management Plan;
- Council's Infrastructure Design Manual;
- RRV/ VicRoads' Traffic Engineering Manuals Part 1- Traffic management, and Part 2- Signs and marking

4 MANAGEMENT OF ROAD AND ROAD RELATED ASSET

4.1 Scope

The Road Management Plan covers the management of the following Council assets:

- Roads (as listed on Council’s Road Register)
- Pathways
- Traffic Signs.
- Traffic Control Devices (e.g. speed humps, traffic circles, traffic islands).
- Road markings (e.g. centrelines, lane marking, etc)
- Bridges and culverts within road reserve.

The Road Management Plan **does not cover** the management of the following:

- Private Roads/Private driveways/pathways providing access from private property to a public road;
- Street Furniture other than those listed above (e.g. bus shelters);
- Trees and other vegetation outside the road driving envelope and or Council pathways;
- Nature Strips;
- Private Property Fencing, including damage caused by falling trees;
- VicRoads Arterial Roads;
- Any public highway not listed in the Council Road Register (e.g. laneways, access ways, right of ways, tracks, unused government road reserves etc);
- Private access’ and or shared paths to private property.

To support our road management activities, all work within the road reserve require a permit and must comply with Council standards.

The inspection process encompassed in this plan is outlined in Appendix A. As part of the process, all defects and condition reports are analysed to inform the plans for major asset maintenance work. Major asset maintenance (OPEX) work includes grading, whilst capital (CAPEX) work includes the likes of resheeting, sealing/resealing and other significant asset renewal works.

4.2 Register of Public Roads

According to section 19 (1) of the Act, “a road authority must keep a register of public roads specifying the public roads in respect of which it is the coordinating road authority”. A road is considered a Public Road if the road authority has made a decision that the road is “reasonably required for general public use”. All roads included in the Register of Public Roads will be maintained to a standard as specified in the RMP.

4.2.1 Criteria for Including Roads on Council’s Road Register

The following criteria will be used to assess whether a section of road is “reasonably required for general public use” and should therefore be included on Council’s Road Register.

Mandatory Requirements

The road must be a public road (i.e., the road is):

- declared to be a public highway under Section 204(1) of the *Local Government Act 1989*; or
- declared to be a municipal road under Section 14(1) of the *Road Management Act 2004*; or
- a public highway under Section 24(2)(c) of the *Subdivision Act 1988*

Note: Roads which are public roads (or public highways) are not necessarily deemed to be “reasonably required for general public use” and therefore may not be included on Council’s Register of Public Roads.

Non-Mandatory Requirements – consideration will be given to:

- The number and nature of separately owned and occupied properties abutting onto the road or requiring the road for access purposes;
- whether the properties which abut the road or require the road for access purposes have alternative access rights;
- whether the road connects into, and forms part of, the wider network of Public Roads;
- whether the road contains assets owned and managed by public service authorities (gas, electricity, telecommunications, sewerage, water);
- whether the road is safe for public access (no horizontal or vertical alignment issues, existing pavement, suitable drainage, no large trees or obstacles restricting vision);
- excluding works not built to Council standards;
- excluding individual and or shared property accesses from a subdivision of land which otherwise is the responsibility of the private land owners.

Under the Act, Mansfield Shire Council is the responsible road authority for all municipal Public Roads listed in Council’s Register of Public Roads. Council is not obliged to undertake any works on roads that are not registered as Public Roads. (For more information refer to the Register of Public Roads.)

4.3 The Road Hierarchy

Council’s Register of Public Roads list the municipal roads for which Council is responsible. Municipal roads within Mansfield Shire Council are classified according to their function.

The level of service provided to a particular road will depend on its road hierarchy classification. Council’s road hierarchy is outlined in Table 4.3 as follows:

Table 4.3 – The Road Hierarchy (Note 1- is highest in priority/ importance whilst 4 is lowest in hierarchy)

Asset Class	Hierarchy	Description
Roads	1-Link	Provides a link between major roads and regions and between significant population centres and major traffic generators such as residential, industrial and commercial nodes.
	2- Collector	Provides a route between, and through residential, industrial, commercial, agricultural, tourist and forest traffic nodes and the link and/or declared road network.
	3- Access	Provides direct access for abutting residential, industrial, commercial properties and connects into the link, collector or declared road network. There is minimal to no through traffic. Parking areas, including on-street and off-street parking are included as part of this road class.

4- Limited Access	A rural or urban access track, providing access for agricultural purposes, fire and/or maintenance vehicles. This category of road is typically unformed with nominal pavement, unsealed and considered a dry weather road where seasonal closures may apply.
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4.3.1 Other Roads (not required for general public use)

There are many roads within the municipality that are not classified within Council’s hierarchy. These roads are not considered to meet the criteria of being ‘reasonably required for general public use’ and are not listed in Council’s Register of Public Road. Council has no obligation under the Road Management Act 2004 to inspect or maintain these roads.

4.4 The Path Hierarchy

Paths within Mansfield Shire Council include footpaths, bike paths (shared paths) and the Rail Trail network. They are classified according to their function (including characteristics such as usage, volume, type and accessibility). The level of service provided to a particular path will depend on its path hierarchy classification. Council’s path hierarchy is in accordance with Table 4.4 as follows:

Table 4.4 – The Path Hierarchy

Asset Class	Hierarchy	Description
Path	High	<ul style="list-style-type: none"> • Paths located within the CBD of each town settlement. • High activity area footpaths (within one street block of shopping precincts, aged care centres, senior citizen centres, schools, hospitals, libraries, main community facilities and transport hubs).
	Low	<ul style="list-style-type: none"> • All Paths within residential areas, that are not included in the high use category. • Paths in arterial, link and collector road reserves. • Bike paths and rail trail. • Paths in parkland.

5 DEMARCATION - RESPONSIBILITIES

Section 41 of the Act requires that a road authority assume responsibility for the operational aspects of a Public Road. Due to various anomalies such as municipal boundaries and roads on private property, responsibility is not always clearly defined. The following describes demarcation and where the extent of responsibility is for a road authority.

5.1.1 Mansfield Shire Council

According to Section 37 of the Act, Mansfield Shire Council is the coordinating road authority for municipal roads. Roads that Council are responsible for in regards to maintenance are listed in the Register of Public Roads. The Register of Public Roads is available to the public and can be accessed from Council’s website.

5.1.2 Regional Roads Victoria (RRV- Previously VicRoads)

Regional Roads Victoria (RRV) is the coordinating road authority for arterial roads and freeways. The following is list of roads managed by-RRV within Mansfield Shire:

- Merton – Euroa Road
- Maroondah Highway
- Midland Highway
- Midland Link Highway
- Mansfield – Whitfield Road
- Mt Buller Road
- Mansfield – Woods Point Road
- Jamieson – Licola Road (30 km Jamieson to Mt Sunday Road)

The Code of Practice - *Operational Responsibility for Declared Freeways and Arterial Roads* specifies that on arterial roads, the operational function is shared between Council and RRV.

RRV is the responsible road authority for arterial roads in urban areas (defined as within the 60km zone) and for all infrastructure associated with the roadway used by through traffic. RRV is responsible for the road pavement, the seal, the kerb and channel, subsoil drains, centre medians, lighting and road related infrastructure.

Council is the responsible road authority in urban areas for any part of the roadway that is not used by through traffic. This includes service roads, dedicated parking bays, the outer separators (the median strip between the roadway and the service road), any pathways, and the nature strip. Dedicated parking bays and service roads are inspected and maintained as per the standards for access roads. Council is responsible for trimming of trees which are located in the area of the road reserve managed by Council. In rural areas (outside the 60km zone) RRV is responsible for all assets contained within the road reserve, unless otherwise agreed with Council. For guidance on the physical limits of operational responsibilities between RRV and Council on declared freeways and arterial roads, refer to the Code of Practice.

5.1.3 Shared Road Responsibilities (Boundary Roads)

Boundary roads have historically been maintained with a formal or informal agreement in order to define maintenance responsibilities. Mansfield Shire Council is bounded by seven municipalities as follows:

- Baw Baw Shire Council
- Rural City of Wangaratta
- Murrindindi Shire
- Strathbogie Shire
- Benalla Rural City
- Yarra Ranges Shire
- Wellington Shire

There are no bordering Council roads between Mansfield Shire Council and Benalla, Yarra Ranges and Wellington Councils.

5.1.4 Department of Environment, Land, Water and Planning (DELWP)

Some sections of crown road reserve exist where the road is deemed unnecessary for public use. Examples include road reserve where a physical road has never been constructed or where a private access track exists which has not been constructed to the standard of a public road. In these situations, the road reserve is not managed by Council, and DELWP are the co-ordinating road authority.

5.1.5 Private Roads

Council is **not** the responsible road authority for private roads (and road related assets) within the municipality. These roads are not considered formal roads but roads that have been constructed on private property and appear as being to a standard similar to that of a public road. These roads are not the responsibility of Council to inspect, repair or maintain. However, Council may enter into an agreement with an owner, leaseholder or relevant authority to carry out works.

5.1.6 Service Authority Utility Assets

Non-road related assets (services) within a public road such as gas pipes, water pipes, sewerage pipes, cables, electricity poles, public telephones and mailboxes are **not** the responsibility of Council. The provision, installation, maintenance and operation of non-road related assets located within a road reserve are the responsibility of the service authority.

5.1.7 Consent to perform works in a road reserve

In general, any person considering undertaking works in a road reserve must obtain consent from the Coordinating Road Authority unless they are exempt under the Road Management (Works & Infrastructure) Regulations 2005. Advice and application forms for consent to perform works in a municipal road reserve are available from Council's Website.

5.1.8 Management of Vehicle Crossovers (Driveways)

A vehicle crossover refers to the crossing which provides vehicle access from the road carriageway to the property boundary. Vehicle crossovers are considered private property, and repair of and damage to them is the responsibility of the property owner, however council remains responsible for any section of the crossover that is used by the general public as a footpath. This section of footpath shall be inspected and maintained to the same standard applied to other public footpaths.

6 Maintenance Management – Inspections

Council has a duty to inspect, maintain and repair roads and pathways. The inspections aim to:

- Identify defects outside of tolerance levels with the view of minimising the risk of injury to asset users and
- To identify the need for maintenance and repair to prevent premature failure of assets and minimise the financial impact to the community.

The inspections for Council roads and pathways are categorised as follows:

Category	Descriptions
Reactive Inspections	Undertaken following notification to Council of defects and safety issues.
Proactive Inspections	These inspections determine if the road complies within the tolerable level for defects as defined in this Road Management Plan.
Condition Inspections	Conducted to assess the condition and remaining useful life of assets in order to prioritise infrastructure renewal works and report financial depreciation figures.

6.1 Reactive Inspections

Reactive inspections are primarily based on customer complaints or customer action requests. Generally Council is notified of a defect by a member of the community. Short of emergency response, the defect is to be assessed for action within a 15 working days for all road categories except limited access roads which will be accessed within 60 days of being in accordance with the requirement contained in this Plan, noting that times for inspecting the defect have been established in accordance with defect type.

6.2 Proactive Inspections

Proactive inspections are routine inspections undertaken by works personnel for defect identification, resulting in the documenting of required actions. The frequency of proactive inspections is as follows:

Asset Class	Classification	Maximum Inspection Frequency
Roads	Link Road	3 months
	Collector Road	6 months
	Access Road	12 months
	Limited Access Road	12 months
Road Related Infrastructure	Signs (Warning and Regulatory)	As per Link, Collector, and Access Note: 5 years for reflectivity
	Kerb and Channel	As per Link, Collector, and Access
Paths	High Activity Path	12 months
	Low Activity Path	36 months
Bridges and Major Culverts	All	12 months (Level 1 Inspection)

Note: Parking bays and car park areas are inspected in accordance with the adjacent road classification, noting that they are maintained as Access roads regardless of their location.

6.2.1 Proactive Inspections - Roads

Council, through its proactive maintenance inspections will endeavour to ensure that the target levels of service response times are achieved, within the constraints of available resources.

Table 6.2.1 lists all defect types and the response times to action those defects. All response times are from the time of instruction to intervention. An appropriate response could include an inspection, provision of warning signs, traffic control action and/or works to repair the defect.

A night inspection will occur once per year for Link/ Collector and Access roads to check on signage functionality.

6.2.2 Procedure for Undertaking Road Inspections

Road inspections are visual inspections undertaken by one asset officer travelling in a vehicle at 35Km/hr. Defects noted are entered into a mobility device, and a photograph is taken if required.

DRAFT

Table 6.2.1 – Proactive Inspections Roads Response times

Asset Class	Code	Defect Description	Link	Collector	Access	Limited Access
Roads	R01	Sealed Road – Potholed - greater than 300 mm diameter and 75 mm depth	15 days	30 days	12 weeks	Not Applicable
	R02	Sealed Road - Depression > 5m ² Depth>100mm (using 2 metre straight edge)	8 weeks	12 weeks	16 weeks	Not Applicable
	R03	Sealed Road – Pavement break out > 5m ²	8 weeks	12 weeks	16 weeks	Not Applicable
	R04	Sealed Road Edge Drop Off: Edge drop off from a sealed surface exceeds 100 mm vertically for a 20m length	8 weeks	12-weeks	16 month	Not Applicable
	R05	Unsealed Roads – Significant defect grading required (corrugated, potholed, rutted)	2 month	3 months	4 months	6 months
	R06	Unsealed Roads – Minor defect material required (potholed)	2 month	3 months	4 months	Not Applicable
	R07	Obstruction on road, fallen trees, slippery substances, accumulation of granular material, or obstacle posing a danger	24 hours	24 hours	24 hours	24 hours
	R08	Water across Road – Warning Signs required	24 hours	24 hours	24 hours	Not Applicable
	R09	Illegal structures/obstructions (gates/cattlegrids/fences etc.) posing a hazard to the safe passage of road users	Program	Program	Program	Program
Drainage	R10	Kerb and Channel - Vertical misalignment > 100mm less than 3m length – maintenance work required	3 months	6 months	12 months	Not Applicable
	R11	Missing drainage infrastructure (pit lids or grates)	24 hours	24 hours	24 hours	Not Applicable
	R12	Damaged drainage infrastructure (pit lids, surrounds, grates) in pedestrian areas and traffic lanes	24 hours	24 hours	24 hours	Not Applicable
Bridges	R13	Missing timber bridge decking planks	24 hours	24 hours	24 hours	Not Applicable
	R14	Missing rail on bridge structure	24 hours	24 hours	24 hours	Not Applicable
	R18	Approach to bridge significant drop off	1 month	2 months	3 months	Not Applicable
Traffic Management	R19	Statutory signs missing	8-weeks	10 weeks	12 weeks	Not Applicable
	R20	Statutory signs illegible, damaged or obscured	8 weeks	10 weeks	12 weeks	Not Applicable
	R21	Guide posts missing or damaged in critical locations	2 month	3 months	6 months	Not Applicable
	R22	Safety barriers damaged in critical locations	2 month	3 months	6 months	Not Applicable
	R23	Pavement markings in critical locations not clearly visible	3 months	6 months	12 months	Not Applicable
Vegetation Management	R24	Urban tree/shrub pruning required – sight distance restricted	1 month	2 months	3 months	4 months
	R25	Rural Tree pruning/slashing required – sight distance restricted	1 month	2 months	3 months	4 months
	R26	Raised tree root in formally marked parking bay or on road carriageway >100mm	6 months	6 months	12 months	Not Applicable
	R27	Hanging branch/broken branch above road requiring removal	1 week	2 weeks	4 weeks	Not Applicable

6.2.3 Proactive Inspections - Paths

Table 6.2.3 lists defect type and response times to correct path defects. All response times are from the time of instruction to intervention. An appropriate response could include an inspection, provision of warning signs, traffic control action and/or works to repair the defect.

6.2.4 Procedure for Undertaking Path Inspections

Footpath and Shared Path inspections are undertaken on foot. The asset officer walks the path while visually inspecting. If a defect is identified, it is recorded on a mobility device, and a photograph is taken if required. In some instances a measurement is taken confirming a vertical displacement.

Rail Trail inspections are undertaken by one asset officer driving along the Rail Trail at 15Km/hr. Defects noted are entered into a mobility device, and a photograph is taken if required.

6.2.5 Bridges Floodways and major culverts

Identified correctable defects from Bridge, Floodway and Major Culvert proactive inspections will be addressed as per the response time standards tabulated in Table 6.2.1 according to road hierarchy and perceived severity of defect. Where defects are identified requiring more extensive investigation and/or work, corrective action will be scheduled through the capital works program.

If a major safety-related defect is identified with the inspected structure, an engineering assessment will be made to undertake one or more of the following actions:

- Reduce load limits
- Close the bridge
- Urgent remedial action
- Longer-term structural work and programmed capital works

Bridges, Floodways and Major Culverts will receive a proactive inspection annually, regardless of the hierarchy of the associated road or footpath. This inspection is a Level 1 (visual) bridge inspection except in the case of timber bridges which shall receive an annual level 2 inspection. Note a level 2 inspection can trigger a level 3 structural inspection and or load limit recommendation. Level 1 inspections are routine inspections which are used to check the general serviceability of a bridge or major culvert and to ensure the safety of road users.

A Level 1 inspection is intended to identify obvious issues and degradations and may result in the need for a Level 2 inspection by a qualified engineer. Level 2 inspections are condition inspections and are used to assess the condition of structures and their components.

Reactive inspections will be undertaken within 10 Working Days of notification of an issue. Reactive inspections may result in the requirement for a Level 2 inspection, which will be scheduled according to availability of qualified Level 2 inspectors and possible interventions to mitigate risk.

Concrete and steel bridges will receive a Condition Inspection on a 5 yearly basis, which will be conducted as a Level 2 inspection. Timber bridges will receive a Condition Inspection on a 5 yearly basis, which will be conducted as a Level 3 structural inspection. All level structural inspections shall use Australian Road Research Board (ARRB) codes for component status/ condition reporting, provide photographic evidence along with diagrammatic and written recommendation on the most likely cost effective solution for lengthening the life of the structure and or allowing the removal of any recommended temporary load limit recommendation until overall asset renewal.

6.2.6 Programmed Maintenance and Capital Works

Grading and edge sealing is treated as programmed maintenance work. Resheeting and resealing work is treated as programmed capital works.

Grading, Edge Sealing, Resheeting and Resealing activity for individual road segments will be programmed based on road category, seasonal impacts and the results of condition inspections.

6.2.7 Grading

- A road grading program is developed at the start of each financial year. The aim of the program is to grade the following categories of road on the Council road register:
- All unsealed roads on the Council road register graded at least once per grading season.
- All Limited Access roads graded once per year, with Limited Access Roads identified in the Municipal Fire Management Plan as necessary for Fire Access be graded prior to the Christmas holiday period
- All Bus routes on unsealed roads to be graded twice per grading season.
- All shoulders on sealed rural roads to be graded at least once every three years.

Additional grading depends on the number of defects, seasonal factors (both weather and usage) and class of road. Road segments included in the Council resheet or reseal renewal programs, and roads scheduled for sealing will not normally be graded under the grading program.

The grading season runs from late winter to late autumn, depending on weather conditions. Grading is restricted by access to water, wet weather and other operational constraints. Road grading will be prioritised as follows if it is not practically possible to grade all roads identified above:

- 1- Limited Access Tracks identified in the Municipal Fire Management Plan
- 2- Unsealed Collector Roads
- 3- Unsealed Bus Routes
- 4- Major tourist roads (Jamieson-Licola Road; Matlock-Walhalla Road)
- 5- High traffic access roads (≥ 50 vpd)
- 6- Low traffic access roads (< 50 vpd)
- 7- Other Limited Access Tracks

6.2.8 Resheeting/ Resealing

Resheeting and resealing is a capital-intensive process and is programmed through the Council's annual budget. Within the context of the road management plan, roads deemed most in need of resheeting or resealing will be scheduled first. Due to the complexity of the engineering and financial decisions and planning and scheduling process, it is not suitable for the road management plan to be prescriptive about which roads are most in need. However, factors taken into account include:

- Number of defects
- Frequency of defects (is the number and severity of defects increasing over time?)
- Condition inspections
- Weather impacts
- Volume of traffic

6.2.9 Sealing

Sealing is a capital-intensive process that defers maintenance expenditure but requires more expensive maintenance. The Council does not consider sealing of roads to automatically be an appropriate solution for issues with unsealed and unformed roads. Depending on usage factors and depth of seal, a sealed road would normally require resealing every 10 to 15 years. As such, a sealed road can be a financial issue for future ratepayers if put in place inappropriately.

The decision to seal a road will include assessment of the following factors:

Number of defects

Frequency of defects (is the number and severity of defects increasing over time?)

Condition inspections

Weather impacts

Volume and type of traffic, including impact on surrounding roads

Resident willingness to participate in a co-funding arrangement

Alternative resheeting and other maintenance costs

Polymer seals in particular may be used as an interim means of holding an existing aged sealed surface that is subject to many defects such as wide spread seal surface cracking *etc.*

Table 6.2.3 – Proactive Inspections Paths

Asset Class	Code	Defect Description	High	Low
Path - Concrete	P01	Vertical displacement greater than 25mm	1 month	6 months
	P02	Edge Drop greater than 100mm	1 month	6 months
	P03	Cracks - Horizontal displacement greater than 25mm wide	1 month	6 months
	P04	Tactile loose/damaged/missing	12 months	36 months
Path - Sealed	P05	Potholes greater than 150mm in diameter and depth is greater than 75mm	2 weeks	8 weeks
	P06	Edge drop greater than 100mm	1 month	6 months
	P07	Raised section is greater than 50mm within a 300mm length	3 weeks	3 weeks
Path – Brick Paved	P08	Sunken/Cracked/Heaved – vertical displacement greater than 25mm	1 month	6 months
	P09	Missing Pavers	1 week	1 week
Path – Unsealed	P10	Pothole or corrugation – depth greater than 75mm	1 month	3 months
Obstructions	P11	Ponding of water greater than 300mm deep – Warning Signs Required	24 hours	24 hours
	P12	Tree fallen across path	48	2 weeks
	P13	Dirt, debris or accumulation of aggregate on concrete, sealed or brick path.	1 week	1 month
	P14	Illegal structures/obstructions posing a hazard to the safe passage of path users	Program	Program
Drainage	P15	Missing pit lids or grates	24 hours	24 hours
	P16	Damaged infrastructure - pit lids, surrounds, grates, and culverts in pedestrian area	1 week	2 months
Traffic Management	P17	Statutory signs missing, illegible or damaged	2 month	3 months
	P18	Guide Posts missing or damaged	6 months	6 months
	P19	Safety Barriers missing or damaged	6 months	6 months
Vegetation Management	R20	Pruning Required - Council Vegetation encroaching inside 2.5m clear zone	3-months	6 months
	R21	Private Vegetation or debris encroaching over or onto pathway – inside 2.5m vertical clear zone	3-months	3-months

6.3 Condition Inspections

Condition inspections are undertaken to identify the overall condition of the asset. The condition assessment information is also used for financial asset valuation purposes, for predictive modelling, and to prioritise for the capital works renewal program.

The frequency of condition inspections is as follows:

Asset Class	Classification	Maximum Inspection Frequency
Roads	Sealed Roads	5 years
	Unsealed Roads	3 years
Kerb and Channel	Kerb and Channel	5 years
Paths	High Activity Path	3 years
	Low Activity Path	6 years
Bridges and Major Culverts	All	5 years

6.4 Exceptional Circumstances

Council will endeavour to meet all its commitments under this Road Management Plan, unless under exceptional circumstances. Such circumstances include but are not limited to:

- Natural Disasters (e.g. floods, bushfire, storms).
- Significant reduction in financial ability (e.g. economic downturns).
- Prolonged labour shortage (e.g. ill staff, competitive labour market).

Where exceptional circumstances prevail and the requirements for this Road Management Plan cannot be met, pursuant to Section 83 of the *Wrongs Act 1958*, the CEO will correspond with the Council Officer in charge of this plan and inform them that some or all of the timeframes and responses in Council's Plan are to be suspended.

Once the events beyond the control of Council have been resolved, or if the events have partly abated, Council's CEO will correspond with the Council Officer responsible for this Road Management Plan and inform them which parts of Council's Plan are to be re-activated and when this is to occur.

6.5 Process for Suspension and Reactivation of RMP

The process to suspend the RMP is as follows:

- The Infrastructure Manager shall write to the Chief Executive Officer, outlining the circumstances contributing to the inability of Mansfield Shire Council to meet the requirements of the RMP, and
- Shall recommend suspension of the RMP until these circumstances are resolved.
- The Chief Executive Officer shall approve, in writing, the recommendation to suspend the RMP until notified by the Infrastructure Manager that the RMP may be reactivated.

- The Infrastructure Manager shall notify, in writing, internal staff and external stakeholders, that the RMP has been suspended, and the reasons for this decision.

The process to reactivate the RMP is as follows:

- The Infrastructure Manager and Works Coordinator shall agree that the circumstances leading to the suspension of the RMP have been resolved, and shall determine an appropriate timeframe for the reactivation of the RMP.
- This agreement and the timeframe for reactivation shall be communicated to the Chief Executive Officer, in writing, recommending reactivation of the RMP on the agreed date.
- The Chief Executive Officer shall approve the recommendation to reactivate the RMP.

6.6 Road Safety

Road Safety is a critical aspect of road maintenance and management, and over time road signage may change according to changes in road use, changes in technical warrants for signage, and changes in perceptions of government authorities. Responsibility for road safety lies with a number of government groups and is affected by a variety of legislative instruments and Council will take advice of authorities like Police and Rural Roads Victoria.

The Council is not a qualified accident investigator.

As Council is the “co-ordinating road authority” for Council-managed roads within the Mansfield Shire, it has established the Traffic Liaison Committee (TLC) to discuss safety and accident issues within the Shire. The TLC meets quarterly and includes representatives from Victoria Police, Rural Roads Victoria and Council. Where appropriate, members of the public and other agencies with safety issues and concerns can be invited to participate in this meeting.

Victoria Police assist in the identification of road safety issues contributing to accidents on Council-managed roads and provide guidance based on information from their qualified accident investigators through the TLC. Rural Roads Victoria provide Council with accident data within the Shire. Accident and safety-related data is tracked internally and utilised in decision-making for road works, as well as providing supporting evidence for funding applications.

7 Review and Consultation

7.1 Reporting

In an effort to demonstrate compliance with the RMP, the following reports will be produced and distributed to Council’s Executive Management Team on an annual basis:

- Percentage compliance with scheduled inspections;
- Percentage compliance with defect rectification within the required timeframe;
- Percentage compliance for reactive requests - inspections and closure within the required timeframe (RMP defects only);
- Details on any outstanding defects/overdue inspections;
- Any errors/omissions noted with the RMP/road register.

7.2 Road Management Plan Review

During Council's budget development Council will consider the levels of service for assets of public roads maintained by this Council. Particular attention will be given to managing the demand for asset maintenance with the proposed level of resources each year. The performance measure will be reviewed and any non-conformance will be reviewed for action.

A formal review, in accordance with Sections 303 and 304 of the *Road Management (General) Regulations 2005*, will be conducted every four years in line with Council elections.

7.3 Consultation Process

In any review associated with this Road Management Plan, consultation will be undertaken as follows:

- Internally by staff associated with RMP implementation;
- Externally by placing this document on exhibition and calling for submissions from the general public; and
- Externally by Council's insurer and legal advisors.

Inspection and response standards have been based on an approach that aims to balance customer expectations with sustainable resource management. Information gained from external and internal sources, including historical knowledge of demand, risk and expectation has guided the development of these standards. Mansfield Shire Council recognises the need to continually review these standards.

7.4 Amendment of Road Management Plan

If the adopted level of service is not achievable, the level of maintenance effort may need to be varied. The level of service, the anticipated quantity of works and Council's budget and resources should then be reviewed and a new RMP proposed. The revised Plan would be subject to the consultation and approval processes as detailed in Division 5, Section 54 of the *Road Management Act 2004*.



8 Definitions

Terms used in this Plan have the same meaning as the specific definitions included in the Act. For the purpose of this Plan the following additional items shall be defined:

Term	Definition
Defect	A localised failure in an asset, for example, potholes in a road surface or a joint displacement in a concrete footpath.
Road Management Act (RMA)	Road Management Act 2004 (Vic) The Act provides a statutory framework for the management of the road network in Victoria.
Code of Practice	Code of Practice for Road Management Plans (September 2004. Supporting document to the legislation, which provides practical guidance to Road Authorities in the making of RMPs.
Responsible road authority	The organisation responsible for the management of the road as determined under s.37 of the RMA.
Road	Includes a street; cul de sac; by-pass; bridge or ford; or other land or works forming part of the road.
Arterial Roads	Freeways, highways & declared main roads which are managed by the State Government through VicRoads
Municipal Roads	Roads for which the council is the responsible Road Authority
Pathways	The definition of pathway provided in the RMA captures both “footpaths” and “shared pathways” as outlined below: A footpath, bicycle path or other area constructed or developed by a responsible road authority for use by members of the public other than with a motor vehicle but does not include any path which: a) Has not been constructed by a responsible road authority; Or b) Which connects to other land
Non road infrastructure	Includes infrastructure in, on, under, or over a road, which is not road infrastructure. The RMA provides examples of non-road infrastructure that includes gas pipes, water and sewerage pipes, cables, electricity poles, bus shelters, rail infrastructure, public telephones, mail boxes, road side furniture and fences erected by utilities or providers of public transport.
Other roads	Include roads in State reserves, and roads on private property. Council is not responsible for the care and maintenance of these roads.
Road reserve	All of the area of land that is within the boundaries of a road
Roadside	Any land that is within the boundaries of a road (other than the shoulders of the road) which is not a roadway or a pathway and includes the land on which any vehicle crossing or pathway which connects from a roadway or pathway on a road to other land has been constructed.
Public Road Register	List of roads within a municipality that a council is responsible for. Council is required to keep a register under s.19 of the RMA.
Road Infrastructure	The infrastructure which forms part of a roadway, pathway or shoulder, including – <ul style="list-style-type: none"> • Structures forming part of the roadway, pathway or shoulder, and the road-related infrastructure • Materials from which a roadway, pathway or shoulder is made, such as asphalt, bitumen, gravel, lane markers and lines.



Road related infrastructure	<p>Infrastructure which is installed by the relevant road authority for road related purposes to</p> <ul style="list-style-type: none"> • Facilitate the operation or use of the roadway or pathway; or • Support or protect the roadway or pathway. <p>Examples: Traffic islands, traffic management signage, traffic control sign, traffic light, kerb and channel, a bridge, culvert or ford, road drain or embankment, a noise wall, gate, post or board installed on the road reserve.</p>
Proactive Inspections	Inspections performed as part of a scheduled program, according to the classification of roads, which is based on the road classification, volume of traffic etc., for the purpose of identifying defects above intervention and to provide a record that the road has been inspected.
Reactive Inspections	Inspections performed in response to a customer request or notification about the condition of the road, in order to assess whether the road contains a RMP defect that has reached the relevant intervention level.
Condition Inspections	Inspections conducted to assess the life of the road and footpath network, and to prioritise major works.
Intervention Level	The level of severity of a defect at which the road authority has determined that the defect will be repaired.
Infrastructure and works managers	Staff of road authorities that are responsible for the management and maintenance of roads as determined by the classification system within the Road Management Act 2004 (Vic), and as contained in the roads register.
Consent applications	Applications made by other road authorities and utilities companies to perform works on council-managed roads.
'Exceptional Circumstances' clause	A clause in the RMP that describes the conditions under which a council can suspend its maintenance and inspection responsibilities under the RMP due to the occurrence of events outside their control. The 'Exceptional Circumstances' clause also details the process for reinstating the RMP.