



Asset Management Plan

List of Defects

Attachment 6

Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Response Rating	Responsibility
Pavement								
POTHOLE	Surface patching of potholes <1 m ² , in travelled way using bituminous and other appropriate materials to restore the riding surface to a smooth condition.	Repair when pothole exceeds 300mm diameter is 25mm in depth or is the full depth of a surface pavement layer or is likely to deteriorate rapidly.	5	3	15	Routine Maintenance	Rating 2	Yarra Road Services
FAILURE DIGOUT MINOR SURFACE TREATMENTS	Surface patching and regulation of adjacent surface depressions >1 m ² and <5 m ² with appropriate materials to restore the riding surface to a smooth condition.	If depression exceeds 40mm in depth over a 2 metre straight edge.	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services
FAILURE DEPRESSION / WHEEL RUT / DIGOUT	Surface patching and regulation of adjacent surface depressions >5 m ² and <100 m ² with appropriate materials to restore the riding surface to a smooth condition. Total area must not exceed 25% of the asset as identified in MASS.	Repair when depression is 40mm in depth or is the full depth of a surface pavement layer over a 2 metre straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
FAILURE DEPRESSION / WHEEL RUT / DIGOUT	Surface patching and regulation of adjacent surface depressions >100 m ² with appropriate materials to restore the riding surface to a smooth condition.	Repair when there are several depressions that are 50mm in depth or the full depth of a surface pavement layer over a 2 metre straight edge.	2	3	6	Capital Works Program	Rating 3	Engineering Services
CRACKING	The routing, cleaning and filling of cracks and joints using liquid bituminous sealants	Repair all cracks greater than 5mm wide	2	2	4	Programmed Maintenance	Rating 3	Yarra Road Services
TREE ROOT DAMAGE	Raised pavement and or cracking 2 metres from the base of tree.	Repair when pavement is raised >150mm over a 2 metre straight edge	3	4	12	Programmed Maintenance	Rating 2	Open Space
TREE ROOT DAMAGE HEAVING	Raised pavement and or cracking 2 metres from the base of tree.	Repair when pavement is raised > 150mm on the carriage way over a 2 metre straight edge.	3	4	12	Routine Maintenance	Rating 2	Open Space
LINE MARKING	Damaged missing or faded line marking	Replace when reflectivity is less than 50% Replace when less than 90% coverage	3	2	5	Programmed Maintenance	Rating 3	Services Contracts

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FOOTPATH								
POTHOLE / TRIP POINT	Replacement, repair of damaged/ settled all paved surface areas < 1m ² for pedestrian safety.	Repair / replace hard paved areas where sunk, cracked, heaved, etc. when lips (i.e. a slope >1:1) are >20 mm in high pedestrian areas and >30mm in low-pedestrian areas and / or mounding or depressions are >50mm under a 2m straight edge.	5	3	15	Routine Maintenance	Rating 2	Yarra Road Services
DEPRESSION HIGH PEDESTRIAN VOLUME	Surface patching regulation of adjacent surface depressions >1 m ² and <50 m ² with appropriate materials to restore the surface to a smooth condition. Total area must not exceed 25% of the asset as identified in MASS.	Repair when depression is 30mm in depth or is the full depth of a surface layer over a 2 metre straight edge.	4	3	12	Routine Maintenance	Rating 2	Yarra Road Services
DEPRESSION LOW PEDESTRIAN VOLUME	Surface patching regulation of adjacent surface depressions >1 m ² and <50 m ² with appropriate materials to restore the surface to a smooth condition. Total area must not exceed 25% of the asset as identified in MASS.	Repair when depression is 30mm in depth or is the full depth of a surface layer over a 2 metre straight edge.	2	3	6	Programmed Maintenance	Rating 3	Yarra Road Services
DEPRESSION	Surface patching regulation of adjacent surface depressions >50 m ² with appropriate materials to restore the surface to a smooth condition.	Repair when numerous depressions are 30mm in depth or the full depth of a surface layer over a 2 metre straight edge.	2	3	6	Capital Works Program	Rating 3	Engineering Services
CONCRETE FOOTPATH	Replacement, of up to five complete bays of damaged/ settled paved areas, for pedestrian safety. Total area must not exceed 25% of the asset as identified in MASS.	Replace hard paved areas where sunk, cracked, heaved, etc. when lips (i.e. a slope >1:1) are >30mm in pedestrian areas and / or mounding or depressions are >50mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
CONCRETE FOOTPATH	Replacement, of more than five complete bays of damaged/ settled paved areas, for pedestrian safety.	Replace hard paved areas where sunk, cracked, heaved, etc. when lips (i.e. a slope >1:1) are >30mm in pedestrian areas and / or mounding or depressions are >50mm under a 2m straight edge.	2	3	6	Capital Works Program	Rating 3	Engineering Services

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FOOTPATH								
PAVING STONES FOOTPATH	Replacement, repair and regulation of damaged/ settled paved areas < 1m ² for pedestrian safety. Total area must not exceed 25% of the asset as identified in MASS.	Replace hard paved areas where sunk, cracked, heaved, etc. when lips (i.e. a slope >1:1) are >30 mm in high pedestrian areas.	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services
PAVING STONES FOOTPATH	Replacement, repair and regulation of damaged/ settled paved areas > 1m ² and <20m ² for pedestrian safety. Total area must not exceed 25% of the asset as identified in MASS.	Replace hard paved areas where sunk, cracked, heaved, etc. when lips (i.e. a slope >1:1) are >30mm in pedestrian areas and / or mounding or depressions are >50mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
TREE ROOT DAMAGE	Raised surface and or cracking 1 metre from the base of tree.	For High pedestrian volume repair when surface is raised >30mm when lips (i.e. a slope >1:1) or mounding or depressions are >50mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
TREE ROOT DAMAGE	Raised surface and or cracking 1 metre from the base of tree.	For low pedestrian volume repair when surface is raised > 50mm when lips (i.e. a slope >1:1) or mounding or depressions are >50mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
CULVERT AND PIT REPAIRS	Repair / replace damaged covers, lintels and surface grates, or when asset becomes non-functional. Subject to availability of replacement components.	Repair / replace if horizontal or vertical displacement exceeds 25mm. Repair only if structural integrity is not compromised - otherwise replace.	3	4	12	Programmed Maintenance	Rating 2	Yarra Road Services
VEHICLE CROSSING	Damage to crossing between Footpath line and building line.	Repair when depression is 30mm in depth or is the full depth of a surface layer over a 2 metre straight edge.	2	3	6	Routine Maintenance Programmed Maintenance	Rating 3 Rating 3	Yarra Road Services
VEHICLE CROSSING	Damage to crossing between Footpath line and kerb and channel.	Notify owner and request repair within 30 days	2	3	6		Dependent on severity of the damage	Services Contracts
VEHICLE CROSSING	Illegal Crossing Dependent on the nature of the vehicle crossing and management direction	Notify owner and request repair within 30 days	1	3	3			Services Contracts

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FOOTPATH								
OVERHANGING VEGETATION	Branches from Council trees that are obstructing the footpath, obscuring signs, obstructs visibility or impedes sight distance from an intersection.	Trim trees to maintain: Minimum 2 metres above footpath Minimum 1 metre from edge of kerb Minimum 5 metre height clearance of pavements	3	3	9	Refer to Open Space	Rating 3	Open Space
OVERHANGING VEGETATION	Branches from a private tree or shrub that is obstructing the footpath.	Notify owner and request removal, with a minimum clearance of 3 metres above the footpath and laneways, within 14 days or 30 days, dependent on severity of the situation.	3	3	9		Dependent on severity of situation	Community Amenity
UTILITIES / TRADESPEOPLE								
PITS	Damaged / Missing pit cover. Damaged pit.	Notify Service Authority within 48 hours						Yarra Road Services
Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
KERB AND CHANNEL								
DEPRESSION BLUESTONE CHANNEL	Cleaning and minor resetting of stones <1m to maintain adequate drainage.	Repair when differential vertical displacement exceeds 150mm. Or where stones are missing	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services
DEPRESSION BLUESTONE CHANNEL	Cleaning and minor resetting of stones over a length 5m to maintain adequate drainage.	Repair when differential vertical displacement exceeds 150mm. Or where stones are missing	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
DEPRESSION BLUESTONE CHANNEL	Cleaning and minor resetting of stones over a length >5m to maintain adequate drainage.	Repair when differential vertical displacement exceeds 150mm.	2	3	6	Capital Works	Rating 3	Engineering Services
BLUESTONE KERB	The repair / replacement / realignment of pitcher kerb < 1.5m	Repair / replace where sunk, cracked, heaved or missing, etc. when vertical distance between edges of adjacent stones is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services



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Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
KERB AND CHANNEL								
BLUESTONE KERB	The repair / replacement / realignment of pitcher kerb > 1.5m and <20m per row	Repair / replace where sunk, cracked, heaved, etc. when vertical distance between edges of adjacent stones is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
BLUESTONE KERB	The repair / replacement / realignment of pitcher kerb >20m per row	Repair / replace where sunk, cracked, heaved, etc. when vertical distance between edges of adjacent stones is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	2	3	6	Capital Works	Rating 3	Engineering Services
CONCRETE KERB AND CHANNEL	The repair / replacement / realignment of kerb and channel < 4.8m	Repair / replace where sunk, cracked, heaved, etc. when vertical distance between edges of adjacent sections is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services
CONCRETE KERB AND CHANNEL	The repair / replacement / realignment of kerb and channel > 4.8m and <20m	Repair / replace where sunk, cracked, heaved, etc. when vertical distance between edges of adjacent sections is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
CONCRETE KERB AND CHANNEL	The repair / replacement / realignment of kerb and channel > 20m	Repair / replace where sunk, cracked, heaved, etc. when vertical distance between edges of adjacent sections is >40 mm or mounding or depressions are >75mm under a 2m straight edge.	2	3	6	Capital Works	Rating 3	Engineering Services
SPIKED KERBING	Re-fix and repair temporary kerb and infill to original alignment and standard to control pedestrians and motor traffic to optimise safety and traffic management.	Repair or replace depending on the extent of the damage.	4	3	12	Routine Maintenance	Rating 3	Yarra Road Services



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DRAINAGE								
ALL	Restricted flow	Repair when damage restricts the hydraulic capacity of the system	3	4	12	Programmed Maintenance	Rating 2	Engineering Services
	Broken, damaged, displaced or missing	Repair when damage is a hazard to the public or associated property	3	4	12	Routine Maintenance	Rating 2	Engineering Services
	Broken, damaged, displaced or missing	Repair when asset becomes non – functional or degrades the structural integrity of the Civil Infrastructure	3	4	12	Programmed Maintenance	Rating 2	Engineering Services
PITS, PIPES and CULVETS	Leakage	Repair when leakage from the drainage system occurs	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
Description								
RIGHTS OF WAY								
DEPRESSION BLUESTONE	Reset Bluestone pitchers in an area <1m ² if there is a depression or heave >150mm	Repair when differential vertical displacement exceeds 150mm .	4	3	12	Routine Maintenance	Rating 2	Yarra Road Services
DEPRESSION BLUESTONE	Reset Bluestone pitchers in an area >1 m ² and <20m ² if there is a depression or heave >150mm	Repair when differential vertical displacement exceeds 150mm .	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
DEPRESSION BLUESTONE	Reset Bluestone pitchers in an area >20m ² if there is a depression or heave >150mm	Repair when differential vertical displacement exceeds 150mm .	2	3	6	Capital Works	Rating 3	Engineering Services
DEPRESSION ASPHALT / CONCRETE	Surface patching and regulation of adjacent surface depressions <1 m ² with appropriate materials to restore the riding surface to a smooth condition.	Repair when depression is 50mm in depth or is the full depth of a surface pavement layer over a 2 metre straight edge.	4	3	12	Routine Maintenance	Rating 2	Yarra Road Services
DEPRESSION ASPHALT / CONCRETE	Surface patching and regulation of adjacent surface depressions >1 m ² and <50 m ² with appropriate materials to restore the riding surface to a smooth condition.	Repair when depression is 50mm in depth or is the full depth of a surface pavement layer over a 2 metre straight edge.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services



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RIGHTS OF WAY								
DEPRESSION ASPHALT / CONCRETE	Surface patching and regulation of adjacent surface depressions >50 m ² with appropriate materials to restore the riding surface to a smooth condition.	Repair when depression is 50mm in depth or is the full depth of a surface pavement layer over a 2 metre straight edge.	2	3	6	Capital Works	Rating 3	Engineering Services
Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
SIGNS								
STREET SIGN INFORMATION / DIRECTION SIGN	The minor repair, re-erection, straightening, and cleaning of signs and sole purpose supports.	<p>Straighten sign support when it becomes noticeable that it is not vertical.</p> <p>Replace when damage renders either the sign or support ineffective.</p> <p>Clean/ replace the sign face when;</p> <ul style="list-style-type: none"> • There is a noticeable accumulation of dirt. • Graffiti covers more than 10% of sign or message on sign is defaced <p>Replace missing or if incorrect sign is in place.</p>	4	3	12	Routine Maintenance	Rating 2	Yarra Road Services
REGULATORY SIGN	The minor repair, re-erection, straightening, and cleaning of signs and sole purpose supports	<p>Straighten sign support when it becomes noticeable that it is not vertical.</p> <p>Replace when damage renders either the sign or support ineffective.</p> <p>Clean/ replace the sign face when;</p> <ul style="list-style-type: none"> • There is a noticeable accumulation of dirt. • Graffiti covers more than 10% of sign or message on sign is defaced <p>Replace missing or if incorrect sign is in place.</p> <p>Replace if sign cannot be clearly read by a driver of a motor vehicle at night in the rain.</p>	5	4	20	Routine maintenance	Rating 1	Yarra Road Services



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Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
SIGNS								
PARKING SIGN	The minor repair, re-erection, straightening, and cleaning of signs and sole purpose supports.	Straighten sign support when it becomes noticeable that it is not vertical. Replace when damage renders either the sign or support ineffective. Clean/ replace the sign face when; <ul style="list-style-type: none"> • There is a noticeable accumulation of dirt. • Graffiti covers more than 10% of sign or message on sign is defaced Replace missing or if incorrect sign is in place. Replace if sign cannot be clearly read by a driver of a motor vehicle at night in the rain.	4	3	12	Routine Maintenance	Rating 2	Yarra Road Services
Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
STREET FURNITURE								
ALL FURNITURE STREET SEAT BOLLARD BIKE RACK	Bent, broken, loose or displaced.	Repair or replace depending on the extent of the damage when, <ul style="list-style-type: none"> • Asset becomes non-functional or causes potential danger to the public • Displacement is greater than 5 degrees from the intended alignment or axis of the item • Not fixed correctly to the ground or relevant support • Does not conform to Council's or manufacturer's specification and / or becomes unattractive in appearance 	5	3	15	Routine Maintenance	Rating 2	Yarra Road Services
	Rust or corrosion	All rust or corrosion to be repaired	3	3	9	Routine Maintenance	Rating 3	Yarra Road Services
	Faded paint or powder coating	Repaint or powder coat when more than 10% of the item does not conform to Council's or manufacturer's specification	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services



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STREET FURNITURE								
	Chipped paint or powder coating	Touch – up paint is to be applied when there are more than 5 chipped or damaged areas greater than 20mm in diameter on any item.	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
	Peeling paint or powder coating	Repaint or powder coat when more than 10% of the surface is damaged	3	3	9	Programmed Maintenance	Rating 3	Yarra Road Services
LITTER BIN	Bent, broken, loose or displaced	Repair or replace depending on the extent of the damage when, <ul style="list-style-type: none"> Asset becomes non-functional or causes potential danger to the public Displacement is greater than 5 degrees from the intended alignment or axis of the item Not fixed correctly to the ground or relevant support Does not conform to Council's or manufacturer's specification and / or becomes unattractive in appearance	4	3	12	Routine Maintenance	Rating 2	Services Contracts
PARKING TICKET MACHINE	Fault reported by general public or council staff member	Maintenance contractor to inspect & repair, and report back within 48 hours.	5	3	15	Routine Inspection & Maintenance	Rating 2	Open Space
PARKING METER	Fault reported by general public or council staff member	Maintenance contractor to inspect & repair, and report back within 48 hours.	5	3	15	Routine Inspection & Maintenance	Rating 2	Open Space
FENCING	Bent, broken, loose or displaced.	Repair or replace depending on the extent of the damage when, <ul style="list-style-type: none"> Asset becomes non-functional or causes potential danger to the public Displacement is greater than 5 degrees from the intended alignment or axis of the item Not fixed correctly to the ground or relevant support Does not conform to Council's or manufacturer's specification and / or becomes unattractive in appearance 	5	3	15	Routine Maintenance	Rating 2	Yarra Road Services



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Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
GUARDRAIL	The re-alignment, repair and replacement of isolated guardrail <10 m/section, posts and hardware that is defective. Includes the cleaning of guardrail.	Replace defective damaged guardrail as soon as practical, depending on availability of materials.	3	4	12	Routine Maintenance	Rating 2	Yarra Road Services
Description	Defect	Intervention	Likelihood	Consequence	Risk Rating Score	Program	Timeline	Responsibility
FOOTBRIDGES								
DECK	Deck is uneven, screws or nails are loose or missing, planks or boards are missing	Replace missing nails or screws. If deck level difference is > 15mm then adjust level difference in deck or replace deck.	3	4	12		Rating 2	Engineering Services
FENCING	Loose, missing, displaced, protrusions	Realign and fix loose sections. Replace where fence is beyond repair	3	4	12		Rating 2	Engineering Services
KERBING	Deteriorated, loose or missing kerbs	Re-fix or replace missing kerbs, improve drainage	3	3	9		Rating 3	Engineering Services
SUPPORTS	Deteriorated bearers, concrete piers poorly drained, spalling concrete	Treat or replace deteriorated bearers. Improve drainage on piers, remove and repair concrete spalls	3	4	12		Rating 2	Engineering Services