

Woodend Five Mile Creek Master Plan

Adopted by Council
23 November 2022

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Acknowledgement of Country

Macedon Ranges Shire Council acknowledges the Dja Dja Wurrung, Taungurung and Wurundjeri Woi Wurrung Peoples as the Traditional Owners and Custodians of this land and waterways. Council recognises their living cultures and ongoing connection to Country and pays respect to their Elders past, present and emerging.

Council also acknowledges local Aboriginal and/or Torres Strait Islander residents of Macedon Ranges for their ongoing contribution to the diverse culture of our community.

Introduction

The Five Mile Creek runs through the centre of the Woodend township and is significant open space for the community of Woodend. The creek and its catchment supports a range of threatened flora, fauna and vegetation communities, in particular the threatened Black Gum.

The Woodend Five Mile Creek has been the subject of extensive community-based restoration for over twenty years, led by the Woodend Landcare Group with the support of Council and the North Central Catchment Management Authority. This work has significantly improved the environmental assets of the creek and surrounds, primarily via woody weed control and revegetation.

Accordingly, the Woodend Five Mile Creek Master Plan (Master Plan) is a shared strategic action plan between Woodend Landcare and Macedon Ranges Shire Council.

The Woodend Five Mile Creek Master Plan will guide habitat restoration projects, support grant applications and inform infrastructure needs to improve accessibility to the creek for a broad range of recreational activities.

The Master Plan will ensure future actions have the best ecological outcome for the creek and its surrounds and will ensure this work is supported by the local community.

The complete Master Plan drawings are provided in Appendix 1. The Master Plan is supported by an Ecological Assessment undertaken of Ecologist, Geordie Scott Walker in October 2021.

The development of the Master Plan for Woodend Five Mile Creek meets key objectives of Council's Biodiversity Strategy 2018, including: improve biodiversity; extend and connect native vegetation and fauna habitat; enhance the capacity of community groups to undertake conservation actions; and to specifically enhance riparian habitat and create a corridor of native vegetation within the *Campaspe River and Headwaters Waterway Biolink* (MRSC 2018).

Objectives

Implementation of the Master Plan will achieve the following objectives:

1. Enhance and maintain a biodiverse, natural riparian corridor along Five Mile Creek that connects with the broader region – building upon the decades of environmental restoration work undertaken by Woodend Landcare.
2. Guide revegetation projects focused on the protection and enhancement of habitat for the endangered Black Gum (*Eucalyptus aggregata*) and other threatened flora species.
3. Improve maintenance and habitat restoration activities by defining planting / mowing areas, levels of care and priorities.
4. Maintain and provide access along the creek by developing walking / cycling tracks that 'loop' and provide connections to longer trails. Provide tracks that give locals and visitors diverse experiences such as wide open spaces, natural and exotic forested areas and opportunities to access the water's edge to watch, enjoy and learn about nature.
5. Provide accessible paths, seating and picnic areas using local, recycled and low embodied-carbon materials as much as possible.
6. Improve water quality in accordance with the *Five Mile Creek Waterway Action Plan* (January 2004) and to ensure overall 'waterway health', with 'water in the right place at the right time' (*Aboriginal Waterway Assessment Dja Dja Wurrung – Five Mile Creek Summary Report* (2019)).
7. Facilitate education through connection with nature, history and future landscapes and the importance of connection to Country. Continue to provide interpretative information on Aboriginal cultural heritage, European history and environmental

values including Dja Dja Wurrung food, fibre and medicine plants, local ecosystems, local plants and animals, and vegetation management techniques.

Background

Woodend is located within the Macedon Ranges Shire, approximately 70 km northwest of Melbourne and is on the custodial lands of the Dja Dja Wurrung Clans Aboriginal Corporation (DJAARA). The township is surrounded by forests, woodlands and rich agricultural land, with Mount Macedon and Hanging Rock on the outskirts of the town to the east and north, and the Wombat Forest to the west.

Five Mile Creek begins its course on the northern slopes of Mount Macedon and flows into the Campaspe River near Carlsruhe. It is a significant tributary to the Campaspe River that drains 140km north into the Murray River at Echuca.

The creek and its catchment support a range of threatened flora, fauna and vegetation communities. Located in the Central Victorian Upland Bioregion, the ecological vegetation class of Five Mile Creek in Woodend is Swampy Riparian Woodland which is considered Endangered in Victoria, and Valley Grassy Forest, which is considered Vulnerable.

Significantly, Five Mile Creek is home to the endangered Black Gum (*Eucalyptus aggregata*). Black Gum is considered an endangered species under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* and the Woodend Five Mile Creek population is the only population in Victoria. The public land along Five Mile Creek protects this significant vegetation as well as providing a wildlife corridor through the township. Platypus and Australian Water Rats (Rakali) have been sighted in the creek.

Five Mile Creek is identified as a priority biolink in the Macedon Ranges Biodiversity Strategy 2018.

Development of a master plan for the creek and its environs was a key action in the recent Cool Changes Woodend Region Climate Change Action Plan (2020) and in the broader Five Mile Creek project being developed with North Central Catchment Management Authority (North Central Regional Catchment Strategy 2021-27).

An Ecological Assessment and an Aboriginal Water Assessment were undertaken as part of the project and the findings have informed the plan throughout.

Community engagement

Woodend Landcare has been working along Five Mile Creek for over 20 years, primarily on woody weed control and revegetation. In June 2021 the group received a Council community grant to develop this Master Plan to determine what is next for this vital community and environmental asset.

In August 2021 the Five Mile Creek Master Plan working group was formed, and is comprised of representatives from a number of stakeholders including: Woodend Landcare, Greater Western Water, North Central Catchment Management Authority, Woodend Golf Course, Djaara and Council departments (Environment and Open Space).

The development of the Master Plan and working group meetings was coordinated by the Environment Unit at Macedon Ranges Shire Council.

Initial community consultation was undertaken by Woodend Landcare who distributed a community survey in November 2021. The survey results demonstrated that the creek is used regularly by residents for both exercise and commuting and that the natural environment is overwhelmingly people's favourite thing about Five Mile Creek.

Consultation on draft master plan

The draft Master Plan was released for community consultation for four weeks from 15 August to 11 September. It was promoted through a direct mail-out to surrounding residents, signage and information on site and at the Woodend Library, and use of local print and social media.

Ten written submissions were received from community members by 11 September 2022. Additional comments were received at the public display in the Woodend Library.

A summary of suggestions and officer responses are included in the table below with only a few minor changes were required on the final Master Plan. This is a reflection of the extensive community consultation carried out by Woodend Landcare early in the project. Much of the feedback related to the relative urgency of actions on the plan, and subsequently informed the development of the implementation plan.

	Comment	No. of comments	Officer response
General comments	General positive feedback: "overall the plan looks great!" "Thanks for developing this comprehensive master plan!" "I totally support this whole project of retaining and restoring as much of the natural environment as we can. The objectives you list are a crowded agenda but worth the effort." "I think overall it looks really good"	6	Positive feedback gratefully received.
	Support for WSUD options including swales and appropriate revegetation at Jeffery Street, Anne Road, Bowen Street with the addition of Tennyson Street	3	Support for WSUD options and revegetation throughout Master Plan noted.
	More bins and more regularly serviced rubbish bins	3	There are no plans for extra bins. Bins are placed at aggregator areas such as carparks playgrounds and picnic tables that allow vehicle access.
	Use of recycled materials encouraged	2	Additional use of recycled materials for seating added to Master Plan L11
"Clean-up" of creek	If the creek was dredged, made deeper and cleaned up- which should have been done when the removal of the willows occurred, we would have a healthier water flow and no flooding.	2	Five Mile Creek is a Priority River and Stream according to the North Central Catchment Management Authority – and dredging and removal of native vegetation is not permitted as these activities will undermine the natural and cultural heritage values of the creek.
Management of exotic vegetation	Retention of Poplars "Little Europe"	1	Noted. The Master Plan proposes to retain the section of the Poplars known locally as "Little Europe" L03. The Plan proposes to remove new weedy suckers and any outlying populations.
	Removal of all Poplars "Little Europe"	3	Noted. As above.
Paths and access	Improve public access connections to Woodend Golf course	3	Noted and elevated.

	Support for future connections to Hanging Rock	2	Noted. This is part of Council's shared trails plan.
	Maintain path access under High St all year round is regarded as high priority by many residents: "This area is flooded for 8-10 months per year which inconveniences walkers, runners and cyclists and also makes it more dangerous for kids going to and from Woodend Primary School."	9	Noted. Master Plan L04 states "investigate options to maintain path access under high street year round" this will be elevated to very high priority in the implementation plan.
Revegetation, creation of habitat	Support for reduced mowing and improved habitat areas, but some concerns as to how changed management communicated successfully to the public.	5	Support for reduced mowing has been noted. Temporary signage will be erected to explain the staged approach of reduced mowing / increase of revegetation areas as per Objective 2 and 3 focused on the protection and enhancement of threatened Black Gum. Areas will be delineated by the application of thick layers of mulch and by appropriate placement of large logs. Added "temporary signage" note to graphic on L11.
Additional seating	There would be significant community support for another localised quiet sitting spot near feature oak tree		Support for future revegetation public and public space near feature oak tree noted. Addition of seating near Oak tree on Final Plan L05
	Possibly another picnic table over by the weir? Suggestion to increase plantings between weir and Romsey Rd, including trees to west of path is good		Addition of seating near weir, and the word weir added on Final Plan L06

Implementation plan

The Master Plan establishes a vision for the reserve as well as a series of initiatives to achieve this vision including pathway extensions, environmental improvements, signage and passive recreation infrastructure.

The Black Gum (*Eucalyptus aggregata*) is found nowhere else in Victoria, and Woodend Landcare has worked for decades to enhance and maintain a biodiverse, natural riparian corridor along Five Mile Creek that supports this species. The Master Plan guides revegetation projects and in particular outlines changes to mowing and planting areas that will support remnant Black Gum.

The Master Plan will ensure future actions have the best ecological outcome for the creek and its surrounds and will ensure this work is supported by the local community.

Priority actions centre upon the community's values for Five Mile Creek, as habitat for the iconic Black Gum and as a much-loved walking and commuting area for Woodend residents, including:

- Establish a new mowing regime, mulching, planting and weed control works around Black Gums as outlined in the Black Gum Woodland Enhancement Project

- Water treatment actions (WSUD) such as swales in areas like the north end of Bowen St, the “Billabong” and treatment of the large drain near the tennis court.
- Priority paths and interpretive signage including a Short Loop (Habitat) Walk (0.5km return to information centre) and the Creekside Gathering Area – the paths and seating areas around the Visitor Information Area.

It is intended for the implementation to be staged over a number of years and that all parties will take responsibility for its ongoing implementation. Refer to Appendix 2 for the detailed implementation and priorities plan.

The implementation of the Master Plan is completely dependent on the provision of funding to undertake the works. Woodend Landcare, Council and other stakeholders like North Central Catchment Management Authority can use the Master Plan to apply for different funding streams available through Council, State and Federal Governments, community environment grants, or other funding programs. Community and resident groups will also be encouraged to take ownership in progressing the plan such as through hosting community planting days to implement the revegetation phases of the Master Plan.

Appendix 1: Woodend Five Mile Creek Master Plan

Appendix 2: Implementation and Priorities Plan

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- Drawing Number**
- PLA463-L01 Vision, Contents & Overall Plan**
- PLA463-L02 Context Plan**
- PLA463-L03 Gregory Street to Jeffreys Street**
- PLA463-L04 Jeffreys Street to High Street**
- PLA463-L05 High Street to Bowen Street**
- PLA463-L06 Bowen Street to Russell Avenue**
- PLA463-L07 Russell Avenue to Romsey Road**
- PLA463-L08 Enlargement - Creek-side Gathering Area**
- PLA463-L09 Walking Loops**
- PLA463-L10 Functional / Management Zones**
- PLA463-L11 Indicative Details**

MASTER PLAN VISION

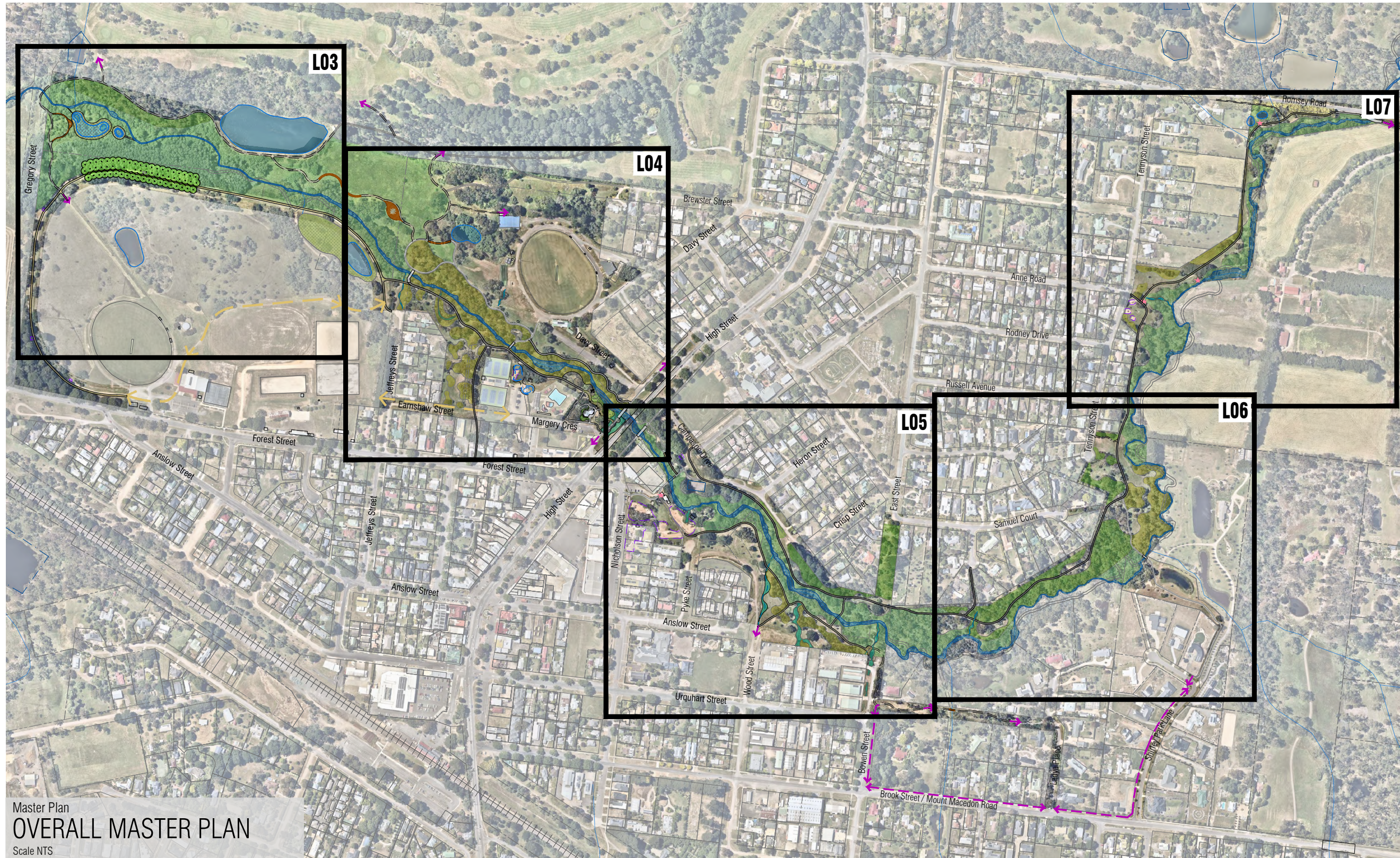
The Five Mile Creek, Woodend Master Plan aims to highlight the unique natural, cultural and historical qualities of the creek and its surrounds. The Plan will help Woodend Landcare and Macedon Ranges Shire Council work together to enhance the creek over the next ten years. The Master Plan will guide water quality habitat restoration projects, support grant applications and inform infrastructure needs to improve accessibility to the creek for a broad range of recreational activities. Projects detailed include current and future projects, dependant on funding.

Implementation of the Master Plan will achieve the following objectives.

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5. Provide accessible paths, seating and picnic areas and using local, recycled and low embodied-carbon materials as much as possible.

6. Improve water quality in accordance with the Five Mile Creek Waterway Action Plan (January 2004) and to ensure overall 'waterway health', with 'water in the right place at the right time' (Aboriginal Waterway Assessment Dja Dja Wurrung – Five Mile Creek Summary Report (2019)).
7. Facilitate education through connection with nature, history and future landscapes and the importance of connection to Country. Continue to provide interpretative information on Aboriginal cultural heritage, European history and environmental values including Dja Dja Wurrung food, fibre and medicine plants, local ecosystems, local plants and animals and vegetation management techniques.



- Notes**
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 2. This Master Plan is based on aerial photography sourced from Nearmap, GIS data and the EMP (refer below). The location and alignment of paths, water courses, trees, planting and grassed areas and other site features is indicative.
 3. This Master Plan should be read in conjunction with the Five Mile Creek Strategic Environmental Works Plan (EMP) prepared by Geordie Scott-Walker February 2022.
 4. All permits and approvals from relevant Authorities shall be sought and secured prior to any works on site. Works should be in accordance with the recommendations of the EMP.
 5. Implementation of this plan is dependent on funding sought by Council, Landcare and partner agencies.



Client / Project
 Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Drawing Title
Vision, Contents and Overall Plan

Drawn	Approved	Date	North
AD	RH	20.10.2022	
Scale (A1)	Scale (A3)	Sheet	
nts	nts	1 of 11	

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Drawing Number
PLA463-L01 C

Master Plan
OVERALL MASTER PLAN
 Scale NTS



Master Plan
LANDSCAPE CONTEXT
 Not to scale



FIVE MILE CREEK WALK IMAGES



Landcare plantings (between Wood and Bowen St)



Black Gum Woodland (Jeffreys Street)



Water hole (Visitor Information Centre frontage)



Poplar tree avenue ('Little Europe') at west end of walkway.

Client / Project		Woodend Landcare Inc	
		Five Mile Creek Woodend	
		Gregory Street to Romsey Road	
		Dja Dja Wurrung Country	
Drawing Title			
Context Plan			
Drawn	Approved	Date	North
AD	RH	20.10.2022	
Scale (A1)	Scale (A3)	Sheet	
nts	nts	2 of 11	
Drawing Number			
PLA463-L02		C	



Explore public access connections to Woodend Golf Course as outlined in Woodend Golf Course Master Plan.

Possible future Long Loop Path (3km return to Information Centre). Alignment to be determined on site to minimise impact on native vegetation, above 1:100yr flood level (where possible) and in consultation with Woodend Golf Club.

Possible off-line WSUD Wetland to treat and improve water quality. Feasibility and design subject to hydraulic engineering and as part of Floodplain Woodland Reclamation Project.

Strategic and staged removal of woody weeds along creek corridor over time. Revegetate with indigenous species as part of Floodplain Woodland Reclamation Project (EMP).

Possible future path connection to Woodend Golf Course and walking path on the north side of the creek, with seating and viewing areas.

Possible future path connection including sections of boardwalk to ensure all weather access, to reduce impact on ecological values and to maintain existing drainage lines / floodplain / wet areas.



Retain a section of the exotic poplar 'avenue' ('Little Europe') in medium term. Following Floodplain Woodland Reclamation Project, replace Poplars with non-weedy feature native, exotic or indigenous trees to retain 'avenue' experience. Continue to remove Poplar suckers on grassland side of path.

Investigate options to improve water retention in existing low lying area, and provide overflow outlet to creek. Details subject to hydrological investigation. Ongoing weed removal and regeneration of indigenous grassland, bog and wetland species.

Future path connections to Grassland, Creek and Jeffreys Street. Subject to separate Master Plan for Woodend Racecourse and Recreation Reserve.



Continued on L04

View of grassland from path

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- Legend**
- MRSC Standard Signage
 - Interpretative Sign - Existing (pink star)
 - Interpretative Sign - Proposed (red star)
 - Directional Bollard (orange circle)
 - Pedestrian / Cycle paths
 - Path continuation (purple arrow)
 - Gravel surface (brown hatched)
 - Concrete surface (grey hatched)
 - Asphalt surface (black hatched)
 - Possible future (dashed line)
 - Future path connections - location subject to separate Master Plan (yellow dashed line)
 - Gathering Area (such as picnic table/s, shelter, seating, signage) (yellow star)
 - "Little Europe" - Exotic Poplar 'avenue' (green dotted area)
 - Five Mile Creek (blue line)
 - 1/100 year Flood Level (blue dashed line)
 - Stormwater drainage infrastructure (grey dashed line)
 - Waterbody (existing dams) (blue circle)
 - Possible Water Sensitive Urban Design wetland (blue hatched area)
 - Informal Seats / Picnic settings (black square)

Macedon Ranges Shire Council logo

Woodend Landcare logo

PLOT LANDSCAPE ARCHITECTS logo

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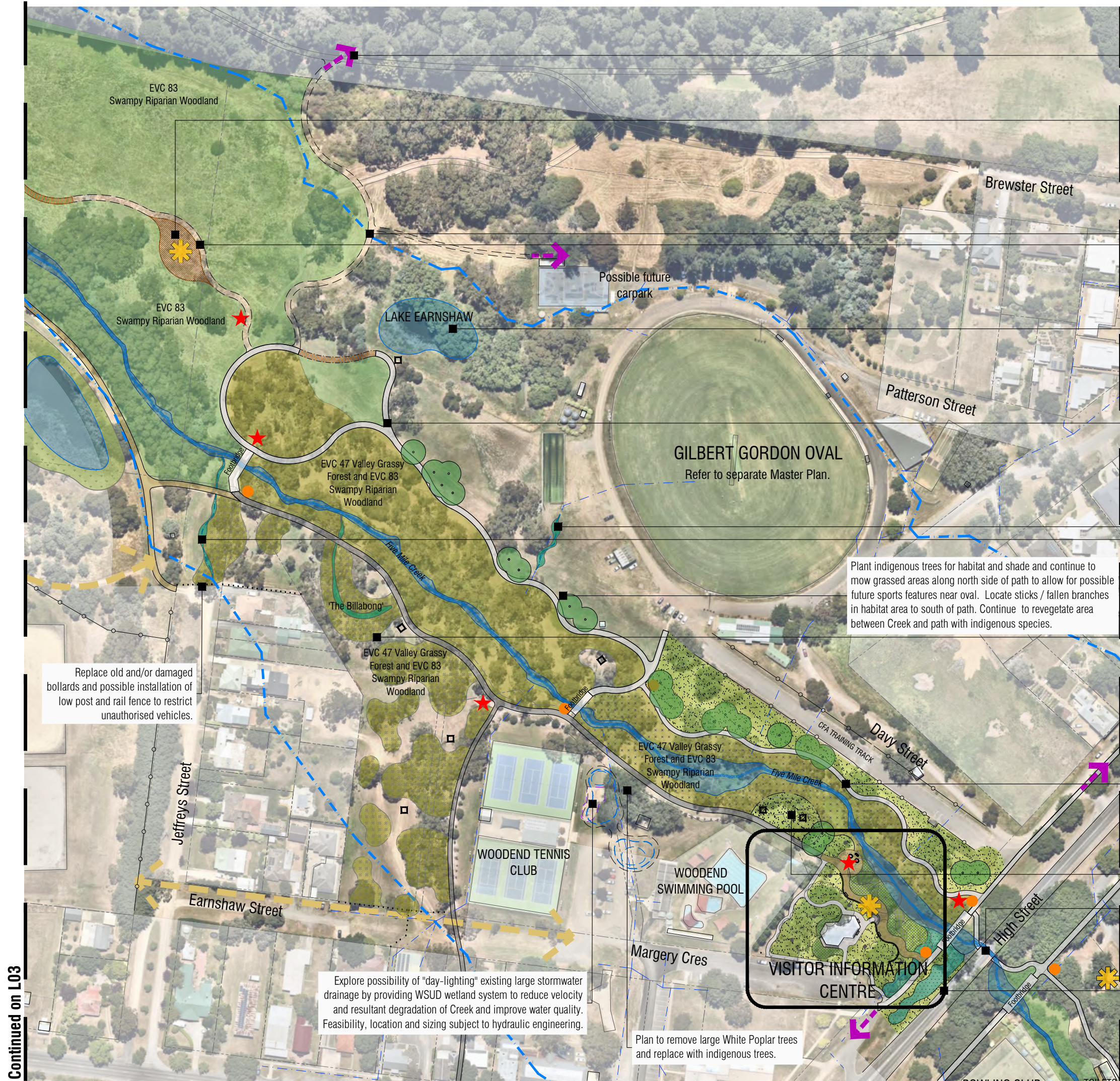
Client / Project: Woodend Landcare
Five Mile Creek, Woodend
Gregory Street to Romsey Road
Dja Dja Wurrung Country

Drawing Title: **Gregory Street to Jeffreys Street**

Drawn: AD	Approved: RH	Date: 20.10.2022	North
Scale (A1): 1:1000	Scale (A3): 1:2000	Sheet: 3 of 11	

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Drawing Number: **PLA463-L03 C**



Continued on L03

Continued on L05

Provide path connections to existing public paths to / from Woodend Golf Course, netball courts, Gilbert Gordon Oval and Lake Earnshaw.

Proposed future 'floodplain meeting place'. Provide information about ecosystem restoration project and management techniques. Possible location for small events, quiet reflection and nature observation.

Possible future Long Loop Path (3km return - concrete / elevated boardwalks). Surrounding area to be revegetated with indigenous species as part of *Black Gum Floodplain Restoration Project* (EMP). Path may include sections of boardwalk to ensure ecological values are not compromised by path access and to maintain drainage lines, floodplain and indigenous bog vegetation.

Support community initiatives to remove weeds, especially willows, to improve water quality and access to Lake Earnshaw.

Provide Short Loop Walk (1km return to Information centre - universal access). Proposed concrete paving provides all-weather path when the surrounding area is wet and a maintenance edge to the revegetation areas. Include connections as per Gilbert Gordon Oval Master Plan. Explore the possible use of local aggregates and coloured concrete to blend into the landscape.

Explore WSUD options to treat water from stormwater channels and drainage pipes. Possible meandering, vegetated open swale to capture sediment and litter, slow water velocity and improve water quality.

Plant indigenous trees for habitat and shade and continue to mow grassed areas along north side of path to allow for possible future sports features near oval. Locate sticks / fallen branches in habitat area to south of path. Continue to revegetate area between Creek and path with indigenous species.

Protect remnant Black Gums in accordance with *Black Gum Woodland Enhancement Project* (EMP). Spread timber mulch and plant indigenous species around groups of remnant trees to improve habitat values and reduce mowing. Keep all mulched areas at least 5.0-8.0m from adjacent property boundaries to maintain access and tidy edges. Provide picnic settings in grassed areas.

Provide Short Loop (Habitat) Walk (0.5km return to Information Centre). Proposed concrete path provides accessibility and all-weather path and a maintenance edge to the revegetation areas. Revegetation to include Dja Dja Wurrung food, fibre and medicine plants, with possible digital or other information signage. Remove poplars and other woody weeds to reduce weed suckers. Maintain minimum 5.0m mowed grass clearance to CFA training track.

Grassed area with accessible picnic settings. Investigate options to maintain path access under High Street year round.

Provide Creek-side Gathering Area along creek with views and access to water. Enhance Visitor Information Centre with feature planting and improve visual and path connections to the creek. Refer to enlargement detail on page L08 for further detail.

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 - Asphalt surface (black hatched)
 - Possible future (dotted line)
 - Future path connections - location subject to separate Master Plan (yellow dashed line)
 - Gathering Area (such as picnic table/s, shelter, seating, signage) (yellow star)
 - Five Mile Creek (blue wavy line)
 - 1/100 year Flood Level (blue dashed line)
 - Stormwater drainage infrastructure (blue dashed line)
 - Tree planting in grass (min 3m apart & 3m from any other infrastructure or edges) (green circles)
 - Waterbody (existing dams/lakes) (blue oval)
 - Possible Water Sensitive Urban Design wetland (blue wavy line in a circle)
 - Possible Water Sensitive Urban Design swale (green wavy line)
 - Informal Seats / Picnic settings (square)



Client / Project: Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Drawing Title: **Jeffreys Street to High Street**

Drawn: AD	Approved: RH	Date: 20.10.2022	North
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Investigate options to maintain path access under High Street year round.

Install accessible picnic setting (on available concrete slab if suitable). Limb up exotic trees and remove exotic weed suckers to provide views to creek.

Remove exotic garden weeds between fence and creek and replant with indigenous species.

Staged removal of exotic trees are replacement with indigenous trees.

Plant small sized street trees suitable for near powerlines. Possible planting of steep embankment with indigenous groundcover species to reduce mowing.

Possible planting of open swale drain with indigenous plants suitable for playground environment to improve visual amenity.

Weed control and replacement planting with indigenous species in accordance with EMP.

Ensure no trees under existing powerlines and Power Authority access is maintained where required. Investigate future pedestrian access.

Ongoing weed removal (e.g. Elm suckers and ivy) and re-planting with indigenous species.

Remove pine trees and weeds and replace with indigenous species.

Investigate WSUD option to treat storm water from drainage pipe along Wood St. Possible meandering, vegetated, open swale to capture sediment, slow water velocity and improve water quality.

Informal seating under Oak tree for views of creek.

Possible future footbridge. Short loop walk (approx. 1.5 km return from Visitor Information Centre).

Investigate WSUD options to treat stormwater along Bowen St prior to entering Creek as well as other infrastructure. Ongoing weed removal and revegetation with indigenous species in accordance with EMP. Ensure no large growing trees under existing powerlines and Power Authority access is maintained where required.

Construct path along Bowen Street to connect to Browning Street Reserve and footpath along Brook Street - Mt Macedon Road to Shirley Park entry to creek walkway.

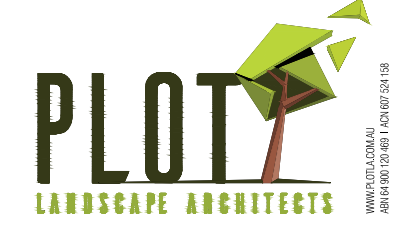
Install vehicle control at street ends.

Investigate future pedestrian access along Browning Street Reserve to Ladye Place. Path may include sections of boardwalk to ensure ecological values are not compromised and to maintain natural drainage lines.

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Legend

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- Pedestrian / Cycle paths
 - Path continuation
 - Gravel surface
 - Concrete surface
 - Asphalt surface
 - Possible future
- Gathering Area (such as picnic table/s, shelter, seating, signage)
- Five Mile Creek
- 1/100 year Flood Level
- Stormwater drainage infrastructure
- Tree planting in grass / mulch (min 3m apart & 3m from any other infrastructure or edges)
- EVC 47 & 83 enhancement areas
- EVC 47 enhancement areas
- EVC 83 enhancement areas
- Possible Water Sensitive Urban Design swale.
- Informal Seats / Picnic settings



Client / Project

Woodend Landcare
Five Mile Creek, Woodend
Gregory Street to Romsey Road
Dja Dja Wurrung Country

High Street to Bowen Street

Drawn	Approved	Date	North
AD	RH	20.10.2022	
Scale (A1)	Scale (A3)	Sheet	
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PLA463-L05 **C**



Plant large, locally-native overstorey trees for shade and habitat. Tree species and locations should account for views from nearby houses. Define mulched planting areas (mulch and marker posts) to reducing mowing maintenance. Construct path connection between Tennyson Street and existing path. Location to be determined on site.

Maintain clear, unplanted or mowed area along lot boundaries.

Install picnic settings and seats in suitable locations, for views, accessibility and in the shade of existing trees (where possible).

Bush Kinder activities. Enhance areas with local indigenous plant species and natural features for the purpose of environmental connection and nature play.

Extend planted areas adjacent to the Creek. Locate piles of fallen sticks and branches in planted areas to improve habitat and reduce maintenance of mowed grass areas.

Protect remnant Black Gums in accordance with *Black Gum Woodland Enhancement Project* (EMP). Spread timber mulch and/or define areas with marker posts and plant indigenous species, including new Black Gum seedlings. Ongoing mowing of grassed areas. Ensure planting maintains clear sight-lines along paths.

Shirley Park bridge crossing - Long Loop Walk (approx. 3.5km return to Information Centre).

Ongoing removal of non-native trees and weed species and replacement with indigenous species. Allow clear mowed area / unplanted mulch along lot boundaries and open grassed areas along path.

Investigate WSUD option to treat stormwater from drainage pipe before it enters the creek. Possible meandering, vegetated, open swale to capture sediment and litter, slow water velocity and to improve water quality.

Protect Buxton Gum and other remnant trees and define mowed and revegetation areas (with mulch and marker posts) in accordance with EMP (Woodland Enhancement projects). Ensure planting maintains clear sight-lines along paths.

Locate fallen branches into planted areas (min 1m from edge) to improve habitat and reduce maintenance in mowed grass areas.

Footpath connection to Brook Street - Mt Macedon Road and west to Bowen Street entry to creek walkway.

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Legend

- MRSC Standard Signage
- Interpretative Sign - Existing (Red star)
- Interpretative Sign - Proposed (Red star with outline)
- Directional Bollard (Orange circle)
- Pedestrian / Cycle paths (Purple arrow)
- Path continuation (Purple arrow with line)
- Gravel surface (Light brown hatched)
- Concrete surface (White hatched)
- Asphalt surface (Dark grey hatched)
- Possible future (Dashed line)
- Five Mile Creek (Blue wavy line)
- 1/100 year Flood Level (Blue dashed line)
- Stormwater drainage infrastructure (Blue dashed line with arrows)
- Tree planting in grass / mulch (min 3m apart & 3m from any other infrastructure or edges) (Green circle)
- EVC 47 & 83 enhancement areas (Light green)
- EVC 47 enhancement areas (Medium green)
- EVC 83 enhancement areas (Dark green)
- Bush Kinder Activities (Pink dashed line)
- Possible Water Sensitive Urban Design swale (Green wavy line)
- Informal Seats / Picnic settings (Black square)

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Woodend Landcare

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Client / Project: Woodend Landcare
Five Mile Creek, Woodend
Gregory Street to Romsey Road
Dja Dja Wurrung Country

Drawing Title: **Bowen Street to Russell Avenue**

Drawn: AD	Approved: RH	Date: 20.10.2022	North
Scale (A1): 1:1000	Scale (A3): 1:2000	Sheet: 6 of 11	

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Drawing Number: **PLA463-L06 C**



Investigate possible future footpath connection along Romsey Road.

Install map and way-finding signage.

Future path connection to Hanging Rock shared trail.

Existing information signage and seat.

Increase indigenous planting areas between creek and footpath. In the short-medium term maintain 2-3m of mowed grass edge on creek side of path to maintain clear sight-lines.

Plant large overstorey indigenous trees for shade and habitat on west side of creek (where possible) for shade to path. Consider views from houses.

Possible renovation of steel cable fence due to historical significance including signage. Consider removal of wire mesh to allow unimpeded movement of indigenous fauna.

Ensure consistent gravel path surface (such as granitic sand) to improve and maximise accessibility.

Consider future staged removal of cypress trees and replacement with suitable trees.

Existing dam wall and weir, large cypress trees, seat and information signage. Add picnic table.

Investigate WSUD option to treat stormwater from drainage pipe (from Tennyson St, Anne Rd and Rodney Drive) before it enters the creek.

Possible meandering, vegetated, open swale to capture sediment, slow water velocity and improve water quality. Investigate possible contamination of stormwater inflows from housing such as septic or grey water.

Possible park improvements to Ruby McKenzie Park such as additional signage, playground equipment improvements, additional co-located park furniture such as picnic tables, seats, a shelter, drinking fountain and possible public artworks. Details subject to separate design process.

Ongoing removal of exotic plants along creek corridor.

Continue weed control and revegetation works in accordance with the EMP.

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- Legend**
- MRSC Standard Signage
 - Interpretative Sign - Existing (pink star)
 - Interpretative Sign - Proposed (red star)
 - Directional Bollard (orange circle)
 - Pedestrian / Cycle paths
 - Path continuation (purple arrow)
 - Gravel surface (yellow hatched)
 - Concrete surface (grey hatched)
 - Asphalt surface (black hatched)
 - Possible future (dashed line)
 - Gathering Area (such as picnic table/s, shelter, seating, signage) (yellow starburst)
 - Five Mile Creek (blue wavy line)
 - 1/100 year Flood Level (blue dashed line)
 - Stormwater drainage infrastructure (blue dashed line)
 - Tree planting in grass / mulch (min 3m apart & 3m from any other infrastructure or edges) (green circles)
 - EVC 47 & 83 enhancement areas (yellow-green shading)
 - EVC 47 enhancement areas (green shading)
 - EVC 83 enhancement areas (light green shading)
 - Possible Water Sensitive Urban Design swale. (green wavy line)
 - Informal Seats / Picnic settings (black square)



Continued on L06

Client / Project: Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Drawing Title: **Russell Avenue to Romsey Road**

Drawn: AD	Approved: RH	Date: 20.10.2022	North
Scale (A1): 1:1000	Scale (A3): 1:2000	Sheet: 7 of 11	

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Drawing Number: **PLA463-L07 C**



Notes

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Legend

	Concrete paving / path
	Concrete paving / path
	Gravel Area
	Feature planting
	Habitat (EVC) planting
	WSUD swale
	Grass
	Accessible picnic setting on concrete base
	Park seat

- Existing CFA training track.
- Short Loop (Habitat) Walk (approx 500m return). Path provides universal access and maintenance edge between revegetation areas and mowed grass.
- Grass
- Staged removal of existing poplar trees along CFA track and replacement with indigenous species trees.
- Proposed Woodend Rotary Centennial Project (rock installation) - actual location and design to be confirmed.
- Main concrete path - explore using local aggregates and coloured concrete to blend into the landscape.
- Feature planting of low-growing indigenous species to maintain views of water with interpretative signs.
- Paths provide universal access between carpark, Information Centre and Creek Edge Gathering Area as well as Short Loop Walks (500m and 1km).
- Feature planting to highlight indigenous species.
- Opportunity for education regarding ecology, biodiversity, and Dja Dja Wurrung food, fibre and medicine plants.
- Path and feature steps directly connecting Information Centre to Creek Edge Gathering Area.
- Existing pedestrian bridge.
- Rock (retaining) wall to allow level paving below and level grassed area above.
- Add to existing feature planting to improve Information Centre surrounds.
- Defined path access from carpark to information centre and creek gathering area.
- Explore water-sensitive-urban-design swale along drainage line to improve water quality and ground-water recharge as well as possible detention with interpretative signage, whilst protecting and possibly relocating existing daffodil beds
- Path access to main town and possible High Street (south) pedestrian crossings (subject to VicRoads design and approval).
- Explore water-sensitive-urban-design swale along drainage line to improve water quality and ground-water recharge as well as possible detention with interpretative signage, whilst protecting and possibly relocating existing daffodil beds

Master Plan - CONCEPT
ENLARGEMENT - INFORMATION CENTRE CREEK-SIDE GATHERING AREA
 Scale 1:400(@A3)



Client / Project

Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Drawing Title

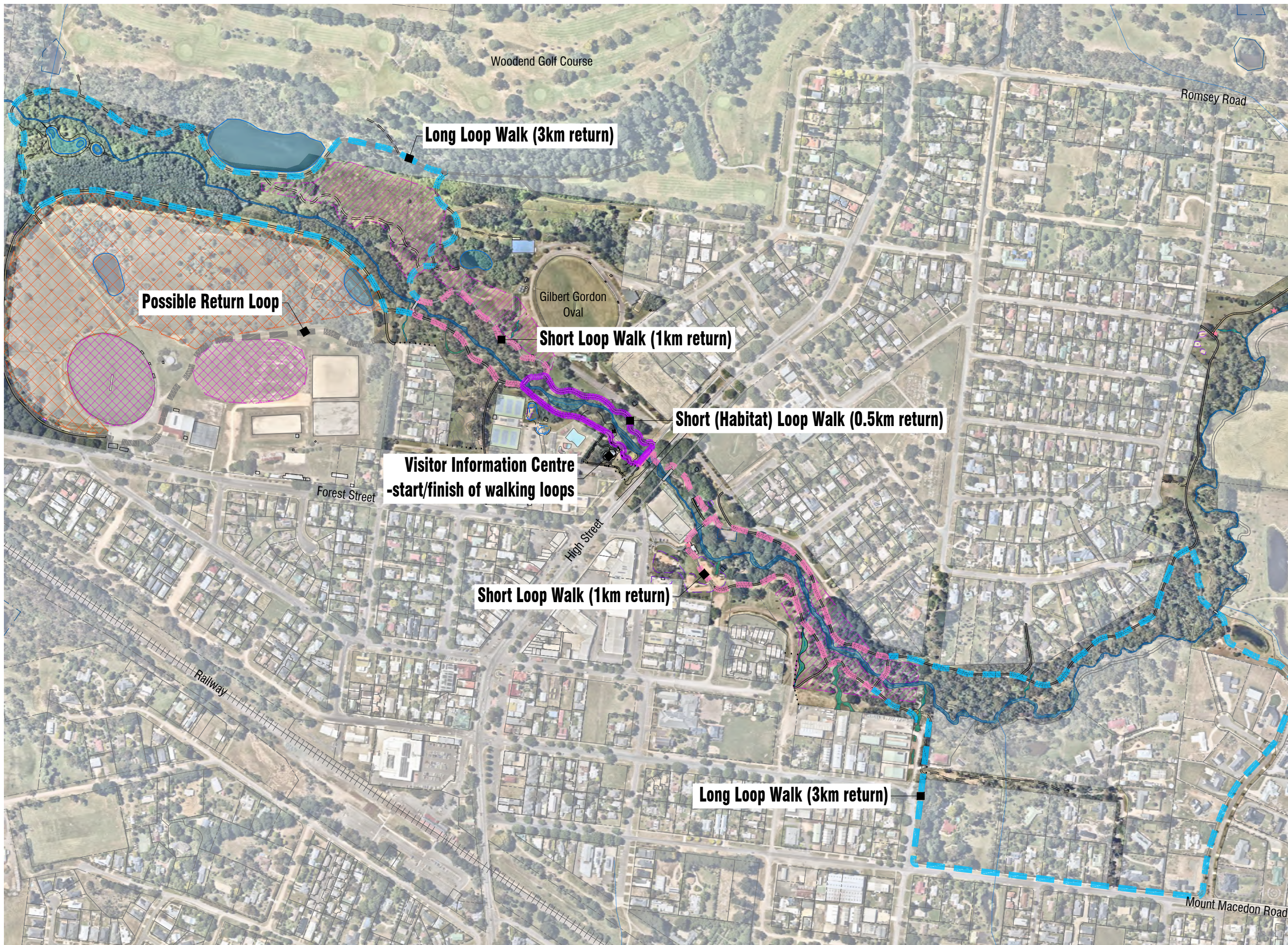
Enlargement - Creek-side Gathering Area

Drawn	Approved	Date	North
AD	RH	20.10.2022	
Scale (A1)	Scale (A3)	Sheet	
1:200	1:400	8 of 11	

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Drawing Number

PLA463-L08 C



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- Legend**
- Short (Habitat) Loop Walk
 - Short Loop Walk
 - Long Loop Walk
 - Possible Walk Loop
 - Current Designated Dog Off Leash Areas (Source: MRSC GIS)
 - Current Designated Timed Dog Off Leash Areas (Source: MRSC GIS)
 - Current Designated Dog Prohibited Areas (Source: MRSC GIS)

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Client / Project

Woodend Landcare
Five Mile Creek, Woodend
Gregory Street to Romsey Road
Dja Dja Wurrung Country

Walking Loops			
Drawn	Approved	Date	North
AD	RH	25.10.2022	
Scale (A1)	Scale (A3)	Sheet	
nts	nts	9 of 11	
Drawing Number			
PLA463-L09			E

Master Plan
WALKING LOOPS
Scale NTS





Master Plan
FUNCTIONAL/MANAGEMENT ZONES
 Scale NTS

Function / Management Zones establish character areas that assist with definition of standards of maintenance and infrastructure provision.

Legend

- 
GRASSLAND ZONE (HABITAT). Zone includes: transition of "Little Europe" to a less-weedy outcome and habitat reclamation; control of woody weeds on grassland side of path; limited access other than on paths; seating and signs.
 Typical management includes: habitat restoration; weed control; mowing along path edges; and maintenance of exercise equipment; and possible future picnic table(s), shelter, informal seating, signage.
- 
TOWN ZONE. Zone includes: feature, creekside gathering area; universally accessible path access; short loop walks; habitat restoration zones; signs; and seating and other park furniture.
 Typical management includes: habitat restoration; weed control; "township" standard mowing of all grassed areas; feature (civic) plantings.

- 
NORTH BANK ZONE (HABITAT). Zone includes: path and low boardwalk access; woody weed removal and Floodplain Woodland Reclamation; Black Gum Floodplain Restoration; seating; and signs.
 Typical management includes: habitat restoration; weed control; mowing along path edges.
- 
EAST ZONE (HABITAT). Zone includes: limited access other than on paths or in parks; seating; and signs.
 Typical management includes: habitat restoration; weed control; mowing along path edges; WSUD treatment of stormwater channels & pipes; relocation of branches into planted zones.



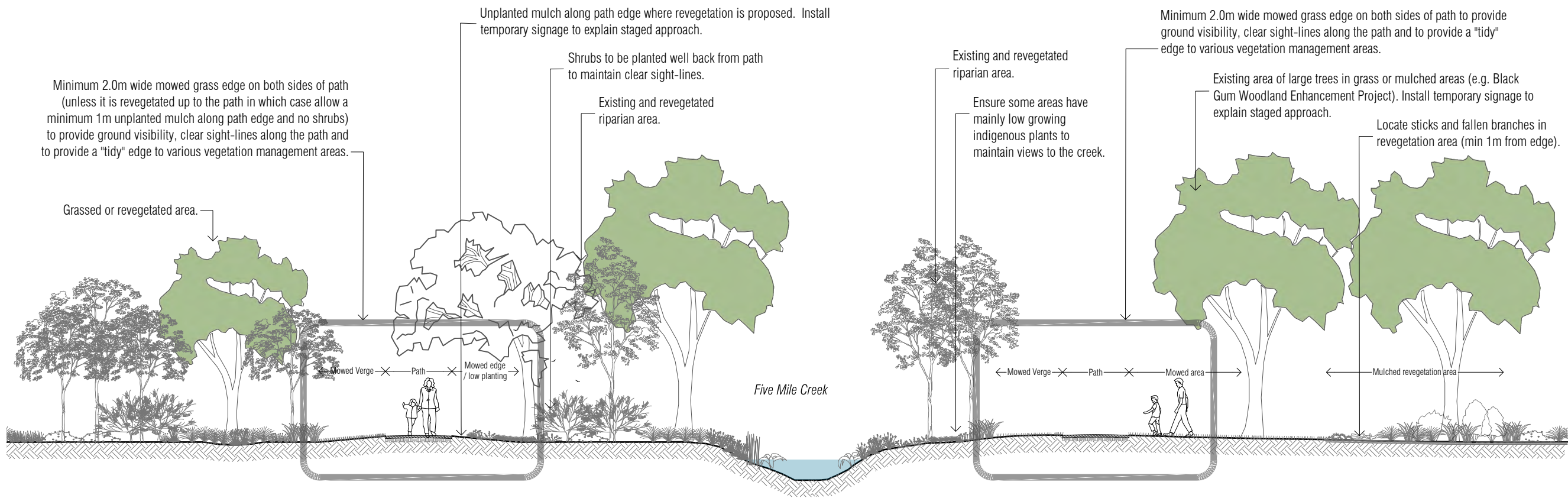
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Client / Project
 Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Drawing Title
Functional / Management Zones

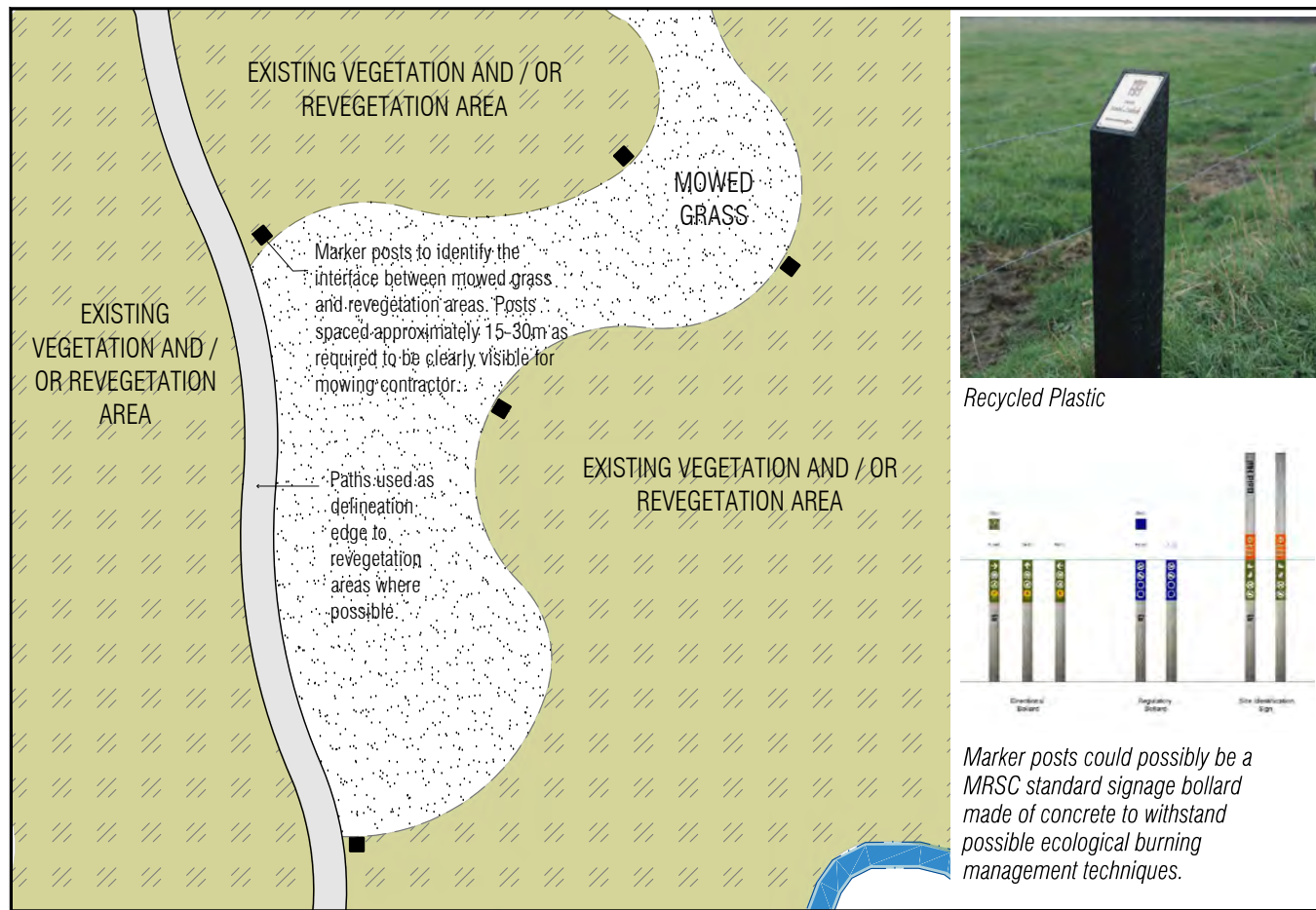
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Scale (A1) nts	Scale (A3) nts	Sheet 10 of 11	

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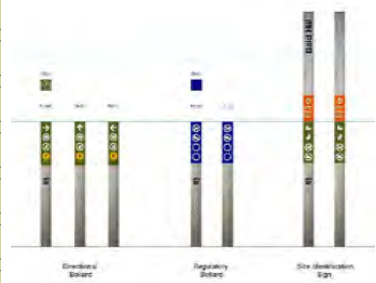


Master Plan
INDICATIVE DETAIL - MAINTENANCE ALONG PATH EDGES

Scale NTS



Recycled Plastic



Marker posts could possibly be a MRSC standard signage bollard made of concrete to withstand possible ecological burning management techniques.



Timber post and two-rail fence, or one-rail fence (as per elsewhere along Five Mile Creek)

INDICATIVE DETAIL - FENCING



Timber informal seat (used elsewhere along Five Mile Creek). Provide some with arm rests. Recycled plastic informal seats and log seats to also be used.

INDICATIVE DETAIL - INFORMAL SEAT

Master Plan
INDICATIVE DETAIL - MAINTENANCE MARKER POSTS

Scale NTS



Client / Project
 Woodend Landcare
 Five Mile Creek, Woodend
 Gregory Street to Romsey Road
 Dja Dja Wurrung Country

Indicative Details

Drawn	Approved	Date
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nts	nts	11 of 11

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Drawing Number
PLA463-L11 C

Works	IMPLEMENTATION AND PRIORITIES PLAN
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Project Landscape Master Plan - Five Mile Creek, Woodend
 Date Thursday, 20 October 2022
 PLOT Drawing Revisions PLA463-L01 & PLA463-L03_L07-C

PRIORITIES (10 Years)

High	2023-2026 (within the next 3 years)
Medium	2026-2029 (within the next 6 years)
Low	2029-2033 (within the next 10 years or longer)

North Bank Zone			
------------------------	--	--	--

LMP No.	LMP page ref.	Project Description	Priority
NZ-1	L03	Long Loop Path from Dam to Gregory Street & existing path on north side of creek.	Low
NZ-2	L03	Investigate offline WSUD wetland along Creek (off-line)	Low
NZ-3	L03	<i>Floodplain Woodland Reclamation Project</i> - Removal of large woody weeds (trees) and revegetation.	Low
		Floodplain Woodland Reclamation Project - Removal of smaller woody weeds (shrubs and smaller trees).	Medium
NZ-4	L03 and L04	Long Loop Path connection from Short Loop Walk to Dam on north side of creek and possible sections of boardwalk.	Low
NZ-5	L04	Footpath connections to Golf Course.	Medium
NZ-6	L04	<i>Black Gum Floodplain Restoration Project</i> (EMP)	Medium

Grassland Zone			
-----------------------	--	--	--

LMP No.	LMP page ref.	Project Description	Priority
GZ-1	L03	Removal of poplars on grassland side of path.	Low
GZ-2	L03	Weed removal and revegetation (in low-lying areas inside path).	High - ongoing
GZ-3	L03	Investigate options to improve water retention in low lying areas.	Medium

Town Zone			
------------------	--	--	--

LMP No.	LMP page ref.	Project Description	Priority
TZ-1	L04	Short Loop Walk - including connection to Lake Earnshaw.	Medium
TZ-2	L04	Explore WSUD options for drainage swales.	Medium
TZ-3	L04	Black Gum Woodland Enhancement Project (EMP). Protect remnant Black Gums. Spread timber mulch and plant indigenous species. Provide picnic settings.	High
TZ-4	L04	Short Loop Habitat Walk. Removal of weeds and revegetation.	High - ongoing
TZ-5	L04	Provide accessible picnic settings	High
TZ-6	L04 and L05	Investigate options to maintain path access under High Street bridge	High
TZ-7	L04	Creek-side Gathering area - including path connections, feature planting and low stone walls.	Medium
TZ-8	L04	Tree planting along paths for habitat and revegetation between creek and path.	Medium - ongoing
TZ-9	L04	Removal of large White Poplar trees, replace with indigenous trees.	Medium
TZ-10	L04	Explore WSUD options for day-lighting large stormwater drainage.	Low
TZ-11	L04	Replace old and/or damaged bollards.	High
TZ-12	L05	Install accessible picnic setting	High
TZ-13	L05	Remove exotic weeds and replace with indigenous.	High
TZ-14	L05	Removal of exotic trees and replacement with indigenous trees.	Medium - ongoing
TZ-15	L05	Possible planting of open swale with indigenous plants suitable for playground area.	High - ongoing

East Zone			
LMP No.	LMP page ref.	Project Description	Priority
EZ-1	L05	Plant small sized street trees and plant steep embankment to reduce mowing.	Low
EZ-2	L05	Weed control and regeneration and replacement planting. Possible future footpath access from East Street to Creek walk.	Low
EZ-3	L05 and L07	Remove exotic weeds and replace with indigenous.	Medium - ongoing
EZ-4	L05	Remove pine trees and replace with indigenous plants	Low
EZ-5	L05	Investigate WSUD option for drainage swale	Medium
EZ-6	L05	Informal seat under existing oak tree	High
EZ-7	L05	Clancy footbridge (project already in process)	High
EZ-8	L05	Investigate WSUD option for stormwater from Bowen St, and revegetation	High
EZ-9	L05	Construct footpath along Bowen Street.	Medium
EZ-10	L05	Install vehicle control barriers at end of Wood St.	Medium
EZ-11	L05	Investigate pedestrian access along Browning Street Reserve.	Low
EZ-12	L06	Locate fallen branches into planting areas.	High - ongoing
EZ-13	L06	Protect Buxton Gum, define mowed areas, continue to revegetate, and install marker posts.	High - ongoing
EZ-14	L06	Investigate WSUD option for drainage swale to improve mowing efficiency.	Medium
EZ-15	L06	Removal of non-native vegetation and replace with indigenous.	Medium - ongoing
EZ-16	L06	Protect Black Gums (Black Gum Woodland Enhancement Project). Extend planted areas adjacent to the creek, locate fallen sticks etc. into planted areas.	High - ongoing
EZ-17	L06	Enhance Bush-Kinder activity areas	High
EZ-18	L06	Install picnic settings and seats along path.	High - ongoing
EZ-19	L06	Plant over-storey native trees for shade and construct path connection between Tennyson Street and existing creek path.	Medium
EZ-20	L07	Improvements to Ruby McKenzie Park.	Out of LMP Scope
EZ-21	L07	Investigate WSUD option for drainage swale. Investigate possible contamination of stormwater.	High
EZ-22	L07	Provide picnic table to dam wall and weir area.	High
EZ-23	L07	Staged removal of Cypress trees and replacement with native trees.	Low
EZ-24	L07	Ensure existing gravel path surface is a consistent material and is accessible.	Medium
EZ-25	L07	Renovation of steel cable fence, including signage.	Low
EZ-26	L07	Plant over-storey native trees for shade and future habitat.	High
EZ-27	L07	Increase indigenous planting areas between creek and footpath.	Medium
EZ-28	L07	Investigate future path connections along Romsey Road (to the east and west).	Out of LMP Scope
EZ-29	L07	Install map and wayfinding signage.	High