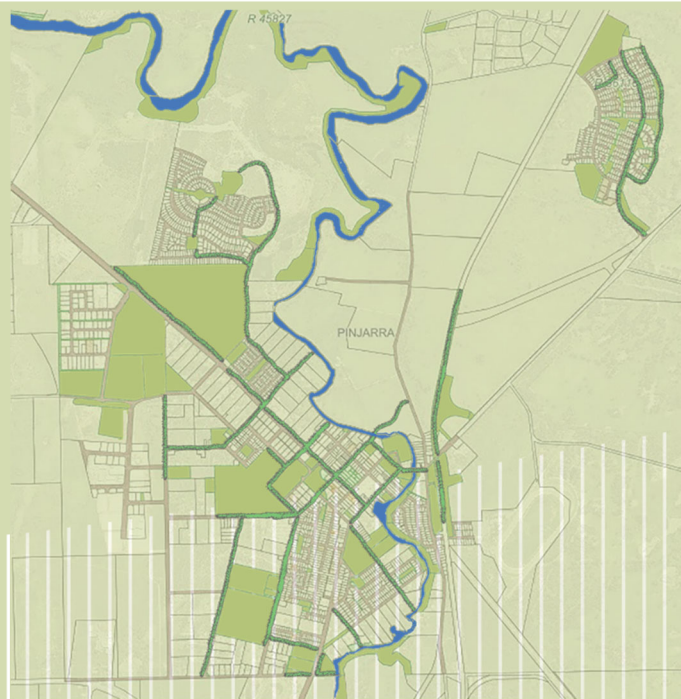


# Shire of Murray Public Open Space Strategy 2022

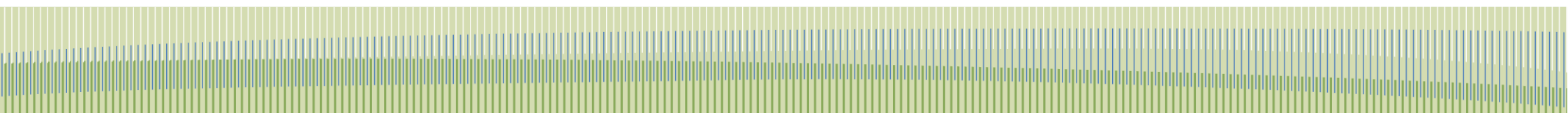
Prepared by Infrastructure Services  
March 2022



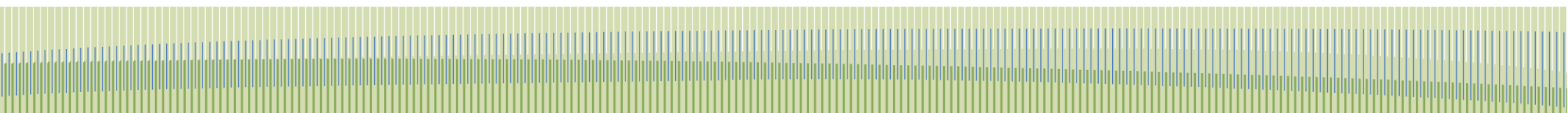
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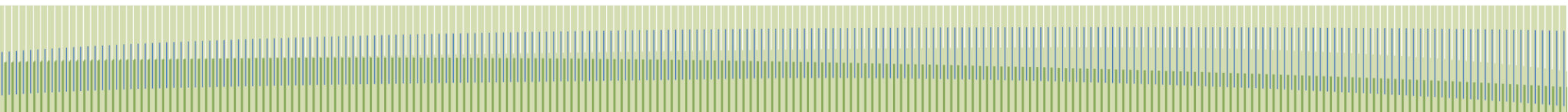
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## Executive Summary

# Public Open Space Strategy

**Providing quality public open space (POS) is one of the most important roles that local government undertakes for its community. The Shire's public open spaces are important assets that help keep the community healthy, active and socially connected.**

**The Shire of Murray has developed this Public Open Space Strategy to plan for and manage its POS for the community into the future. This strategy sits within the Shire's broader framework of corporate strategic planning, ensuring alignment with the organisation's vision and values.**

## Purpose of the Public Open Space Strategy

The Public Open Space Strategy (POS Strategy) will provide direction to guide the Shire to ensure the demands of a growing population are met in the provision, enhancement and management of POS that meets the community's expectations and can adequately respond to trends and issues associated with public open space.

The POS Strategy will also assist the Shire in future allocation of resources and decision making. It provides the framework and guiding principles of how POS is managed.

To ensure that the community benefits from quality public open space it is important for proper planning for the provision of various facilities and functions.

## What is Public Open Space and Why is it important?

Public Open Space is the most visible asset the Shire is responsible for providing, managing and maintaining. It refers to a variety of spaces within the urban environment that are readily and freely accessible to the public or wider community which are intended primarily for amenity, recreational purposes and ecological functions.

It includes both natural and modified landscapes, including nature spaces, recreational spaces and sport spaces. Nature spaces include bushland, wetlands, rivers and other natural areas. Also included are parks and reserves, town squares, public access ways and streetscapes.

Streetscapes include road reserves, medians and verges, which all help to reinforce the identity of a place, provide access and an environment for pedestrian activity.

Public Open Space (POS) provides spaces for sport and physical activity, children's play and exploration, relaxation and social interaction and enjoyment of nature. POS enhances the visual amenity of the landscape. POS plays a significant role in creating a sense of place and community connection, and contributes to the economic value of neighbourhoods.

## Shire of Murray's POS Assets - Classification and Planning for the future

To ensure that the community benefits from quality public open space it is important for proper planning for the provision of various facilities and functions including

- Recreation spaces,
- Sport Spaces, and
- Nature Spaces.

Catchment hierarchy (including size and distance to open space) has four levels of POS defined, which inform their strategic planning:

- Local Open Space
- Neighbourhood Open Space
- District Open Space
- Regional Open Space.

The Shire of Murray has thousands of hectares of parks and reserves and conservation areas, as well as streetscapes that add to the public open space assets of its towns and suburbs.

### Strategic Alignment and Framework

The POS Strategy is both an informing and recording document that determines our POS focus for the future, including future investment.

### Strategic Direction 2031 – Vision

Shire of Murray's Strategic Direction to 2031 incorporates a number of strategies and plans that have been developed to ensure we achieve our vision. The key to success however, is a collaborative relationship with our community and its stakeholders.

**By 2031, the Shire of Murray will be a place where business thrives, we protect our environment, and all people enjoy an outstanding quality of life.**

## Vision and Objectives for the Shire's POS

### Vision

**The Shire of Murray will have well planned and integrated parks, public places, streetscapes and linkages, that meet the needs of a rapidly growing population and define the Shire's character and sense of place.**

### Objectives

- Increase the amount of useable POS in appropriate and strategic locations.
- Provision of functional and pleasing spaces with strong design elements, irrespective of POS size.
- Create connections between spaces to maximise use and functions of POS, including exercise and alternative transport.
- Multifunctional spaces, with diversity of functions and experiences to encourage greater use from a wider cross section of the community.
- Increase capacity and use of active sporting reserves.\*
- Provide universal accessibility.
- Streetscapes that provide opportunities for public use and enjoyment, including events and social connection, with
- Well designed and maintained tree-lined streets and path networks.
- Natural areas that highlight the unique and biodiverse environment, that are managed to enable recreational access to nature spaces while protecting local ecological and biodiversity values.#
- Responsible management and investment for long term maintenance, with strong asset management principles.

\*Refer the Shire's Active Sports and Recreation Strategy for more information.

#Refer Biodiversity Strategy for more information.

## POS Strategy Project and Actions

As part of an ongoing project, the Shire's POS assets are being mapped in Intramaps, recorded in the Asset Master system and are being assessed.

Every POS has been classified by their hierarchy and their dominant function/s, which together are key in strategically determining priorities and expected level of development and provision of facilities.

Current and proposed future facilities are being reviewed, with planning requirements flagged (such as Masterplan preparation) in order to holistically plan for the Shire's POS to meet the strategic vision and objectives.

To progress the POS Strategy, Actions are listed throughout the document that will need to be undertaken to move towards the vision and objectives for POS, with a well-planned and staged approach to future development and long term care, as one of the most important roles of the Shire.

### **ACTIONS**

#### ***Example***

***Actions are listed throughout – they will need to be undertaken to move towards the vision and objectives for POS as outlined in this Strategy***

A number of Actions are identified which are to be addressed to strengthen the organisational and community knowledge, to plan and develop the Shire's vision for its public open space. These actions will be the responsibility of the Shire Infrastructure managers, to complete and inform Executive Management and Council, to ensure investment and resources are available in order to implement and address the POS initiatives outlined. They are provided as a complete list of Actions in section 7.

# 1 Introduction

## Purpose of the Public Open Space Strategy

**The Public Open Space Strategy (POS Strategy) will provide direction to guide the Shire, to ensure the demands of a growing population are met, in the provision, enhancement and management of POS that meets the community's expectations and adequately responds to public open space trends and issues.**

The POS Strategy will also assist the Shire in decision making and future allocation of resources.

To ensure that the community benefits from quality public open space it is important for proper planning for the provision of various facilities and functions.

The POS Strategy is both an informing and recording document that determines our POS strategy for the future, including future investment. It records the Shire of Murray's provision of public open space, classification and actions required for a clear direction in planning for the Shire's POS into the future.

## What is Public Open Space?

Public Open Space (POS) is the most visible asset the Shire is responsible for providing, managing and maintaining. It refers to a variety of spaces within the urban environment that are readily and freely accessible to the public or wider community which are intended primarily for amenity, recreational purposes and ecological functions.

It includes both natural and modified landscapes, including nature spaces, recreational spaces and sport spaces. Nature spaces include bushland, wetlands, rivers and other natural areas. Also included are parks and reserves, town squares, public access ways and streetscapes.

Streetscapes include road reserves, medians and verges, which all help to reinforce the identity of a place, provide access and an environment for movement and community activity.

## Importance of Public Open Space (POS)

**Public Open Space provides spaces for sport and physical activity, children's play and exploration, relaxation and social interaction and enjoyment of nature. POS enhances the visual amenity of the landscape. POS plays a significant role in creating a sense of place and community connection, and contributes to the economic value of neighbourhoods.**

POS provides people with many opportunities to come together and engage with their community in a variety of ways. It provides:

- Social connectedness
  - Social contact
  - Community events
- Health and wellbeing benefits
  - Spaces to relax and unwind
  - Social and cognitive development in children

- Environmental benefits
  - Mitigation of urban heat - space for large canopy trees to grow and provide shade and mitigate the heat island effect
  - Water management - including for waterways and foreshores and also stormwater management
- Biodiversity
  - Protection of remnant areas of indigenous flora and ecological linkages
  - Habitat for native fauna, including linkages or corridors to facilitate their movement and provide refuge, and
  - Spaces to enhance nature and increase biodiverse planting with local flora
- Economics and tourism
  - Spaces that encourage lingering
  - Visitor destination points.



Pelicans Park, South Yunderup, playground by Murray River



Pinjarra Foreshore POS, Murray River Pinjarra

### Health and Wellbeing Benefits

Quality POS has numerous health and wellbeing benefits for the community, with both physical and mental health benefits including:

- Participating in organised sport
- Exercising informally
- Contact with nature
- Being outside in the fresh air and sunlight
- Better general health, reduced stress levels, reduced depression.



## Shire of Murray

Murray is the ancestral home of the Bindjareb people, Aboriginal Australian Noongar speakers, their name taken from the word 'pinjar' or 'benjas' meaning 'wetlands' or 'swamps'. The Murray's abundant waterways and diverse natural bushland accommodated them for many thousands of years.

The fertile soils of the area made it an important agricultural producer for the Swan River Colony, with Murray one of the first areas of European settlement in the state of Western Australia.

At the centre of the Peel region south of Perth, the Shire of Murray covers a vast and diverse area of 1821 square kilometres, bounded by the Peel Harvey Estuary to the west, the historic tourism and forestry town of Dwellingup in the east and the rural and equestrian towns of North Dandalup and Coolup to the north and south respectively. The central town of Pinjarra was established in the early 1830's, situated on the Murray River.

An ecologically important asset, the Peel-Harvey Estuary is fed by the Murray, Serpentine and Dandalup Rivers. The Shire also features significant forestry and conservation reserves and important water catchment areas, namely the North Dandalup, Conjurunup and South Dandalup Reservoirs. State forest covers approximately 77,000 hectares east of the South West Highway.

## Shire of Murray's POS Assets

The Shire of Murray has thousands of hectares of parks and reserves and conservation areas, as well as streetscapes that add to the public open space assets of its towns and suburbs.

Since the settlement of Pinjarra, POS has been integral, with the town's Cantwell Park first constructed in 1919, with some of the oldest oak and pine trees in the district remaining. The riverside and estuarine localities had their POS developed initially within these locations since the 1970s and 80s, and gradually ongoing since.



## Population Demographics, Growth and Lifestyle factors

### Population Growth

**The Shire has experienced significant growth in population over the past five years, with an increase from 17,137 in 2016 to 21,312 in 2021, with projected population growth to continue.**

Refer the Localities – POS by Shire Locality section for a breakdown of population numbers by locality within the Shire of Murray.

Refer also the Infrastructure Assets Management Plan's section 4 Demand Forecasts and Drivers for more information on the Shire's population growth and the demands it places on the various infrastructure assets within the Shire, and for depictions of projected population growth from Forecast ID.

### Demographics

In 2021 the Shire of Murray had an estimated population of 21,312. Since the mid-1980s, population growth rates were high with the population nearly doubling between 1986 and 2006. Population growth from 2009 to 2019 was 3.5%. The majority of residents are located at the western end of the Murray River at South Yunderup, North Yunderup, Furnissdale, Barragup and Ravenswood, and approximately one third of its residents in the central town of Pinjarra. Other settlements of note include North Dandalup, Dwellingup and Coolup. The Shire's natural attributes, solid economic base, as well as proximity and accessibility to Perth and the growing centre of Mandurah will add to the pressure for further rapid population growth in the future.

Where previously the age-structure of the Shire's population differed from that of the state generally, with a lower proportion of adults aged 20 to 44 years, and a higher proportion of adults aged 55 to 84 years, the increase in relatively affordable new housing in the Shire through residential subdivision development, has seen and will continue to see a rise in the numbers of young families with children, as well as retirees and older adults.

Lifestyle risk factors for chronic disease, such as poor nutrition, insufficient physical activity, risky alcohol use and smoking, are prevalent in the Shire. Self-reported information indicates that 75% of adults in the Shire of Murray are either overweight or obese\*. There is a significant higher prevalence of high blood pressure for residents in the Shire compared to their counterparts state-wide. Residents experience significant levels of diabetes, heart disease, cancer, asthma, stroke, arthritis, osteoporosis and respiratory problems, higher than the Western Australian average.

However, mental health conditions among residents over the period 2004 to 2014 were experienced at lower than average rates for the state.

\* Data collected through the WA Health and Wellbeing Surveillance System in 2014.

\*For more information on the Shire's expected population growth, refer to the Community Infrastructure Plan.



## Trends affecting POS

It is evident that certain lifestyle trends are evolving in Australian society that influence public open space provision, with the popularity of the typical Australian outdoor lifestyle remaining.

### Trends include:

- Changes in recreational pursuits, particularly with an emphasis on sporting and recreational opportunities, with a need for open space areas to accommodate changing interests and popular pursuits.
- Conversely, there is increased competition for sport and recreation time from personal computers, entertainment systems and private recreation facilities.
- Workforce changes, with longer working hours for many resulting in less recreational time, yet also more flexible and casual hours for many (particularly since the global pandemic since 2020), resulting in different sectors of the community recreating at different times.
- Increased health awareness, with the community in general having an increased awareness of the benefits of physical activity that has led to more regular exercise and the need for spaces for sports, recreation, cycling and walking.
- Larger dwellings on smaller residential lots have seen a decrease in private recreation space, putting more pressure on public open space for residents, in place of the traditional back yard's facilities.

## Sustainability

Increased environmental awareness has resulted in a focus on ecological sustainability. Sustainability objectives affect the future provision of POS in the following ways:

- Resource use: POS designed to accommodate a mix of functions enables efficient use of land, minimises duplication and has the potential to achieve significant capital and operational savings.
- Promoting public health and equitable access via a range of transportation options through the appropriate locations and distribution of POS and its facilities such as walk and cycle path networks.
- Community building: providing places for social interaction and connectivity, community events and developing a civic heart of neighbourhoods and towns.
- Environment: use of sustainability principals and design processes to enhance and protect existing landscapes, natural ecosystems and water resources. This incorporates the retention of mature trees, use of local flora to aid biodiversity and to enhance sense of place.
- WSUD - Water sensitive urban design principles, a holistic approach to water management and stormwater drainage, focusing on total water cycle management. It addresses water quality and quantity, protection of ecosystems and provision of aesthetic and recreational values, rather than traditional stormwater solutions.

### **ACTION 1.1**

***Develop an Environmental Sustainability Strategy incorporating a Biodiversity Linkage Plan that aligns to current POS***

## 2 Strategic Alignment and Framework

The POS Strategy is both an informing and recording document that determines our POS strategy for the future, including future investment. It records the Shire of Murray's provision of public open space, classification and level of services requirements.

## Planning Framework

The POS Strategy is cognisant of State and local planning frameworks and guidelines which inform development and POS management within the Shire of Murray including:

- State Government Planning Framework including
  - Liveable Neighbourhoods 2015,
  - Perth and Peel @3.5million 2018 and
  - Department of Sport and Recreation's Classification Framework for Public Open Space;
  - Environmental Management Plan Guidelines
- Shire of Murray Planning Framework
- Peel Region Infrastructure Plan 2006

and those of

- Heritage Council of Western Australia
- Department of Biodiversity Conservation and Attractions
- Peel Harvey Catchment Council.

## Strategic Direction 2031 – Vision

Shire of Murray's Strategic Direction to 2031 incorporates a number of strategies and plans that have been developed to ensure we achieve our vision. The key to success however, is a collaborative relationship with our community and its stakeholders.

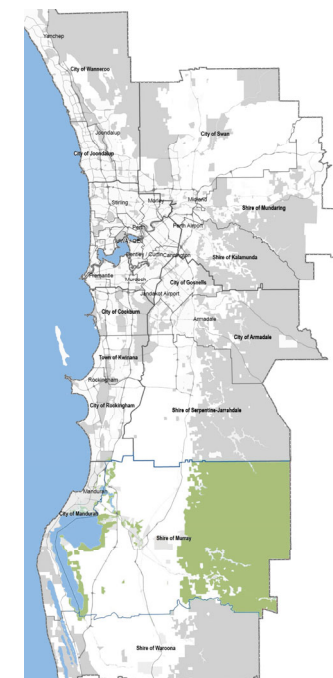
By 2031, the Shire of Murray will be a place where business thrives, we protect our environment, and all people enjoy an outstanding quality of life.

## Strategic Documents

The POS Strategy relates to and is guided by strategic documents including the Shire of Murray's:

- Strategic Community Plan
- Long Term Financial Plan 2020
- Corporate Business Plan 2020 – 2024
- Economic Strategy 2018 – 2022
- Local Planning Policies
- Management Practices\*
- Workforce Plan
- Public Health Plan
- Infrastructure Asset Management Plan 2020
- Pinjarra Town Centre Activity and Revitalisation Strategy (Draft)
- Dwellingup Structure Plan/ Dwellingup Futures
- Community Infrastructure Plan (Draft)
- Access and Inclusion Plan 2018-2022
- Long Term Bike Plan for Shire of Murray 2013
- Local Biodiversity Strategy

\*Management Practice's where applicable provide internal operational support regarding Policy direction.  
Right: Map of Perth Peel from p2 Directions 2031 with Shire of Murray indicated green



## National Strategies

National strategic documents that relate to POS and this Strategy:

- Exercise, Recreation and Sport Survey (ERASS) 2010
- <http://www.beactive.wa.gov.au>
- Healthy Active by Design, National Heart Foundation
- <http://www.healthyactivebydesign.com.au/>
- The Value of Public Open Space for Community Service Provision (Sydney Urban Parks Education & Research Group)
- Aboriginal Heritage Act 1972 – Section 18 Application
- [www.dia.wa.gov.au](http://www.dia.wa.gov.au) Local Planning Policies

## Local Planning Policies

The following local policies have specific relevance to POS:

- Policy C5 – Recreational Vehicle Use – Portion of Reserve 45518
- Policy C6 – Leasing Freehold and Reserve Land to Community Groups, Sporting Clubs and Other Non-Profit Organisations
- Policy C9 – Community Facility Fund - To assist community groups within the Shire of Murray to upgrade, extend or construct sport, recreation and community facilities that will benefit the community. The fund provides an opportunity to part fund an infrastructure project with strong community benefit.
- Policy W13 – Naming of Localities, Roads, Parks and Reserves and Buildings
- Policy W15 – Street Verges and Streetscaping
- Policy W16 – Street Tree Removal
- Water Sensitive Urban Design May 2018

For more information on Crossovers, Street Trees and Verges, refer to the Shire's website and separate Verge Guidelines and Crossover Guidelines and Standard Drawings.

### **ACTION 2.1**

*Develop a POS Infrastructure Plan to inform the LTFP (Long Term Financial Plan)*

### **ACTION 2.2**

*Develop a Tree Preservation Framework with a Significant Tree Register Including significant trees within POS and streetscapes*

### **ACTION 2.3**

*Develop a Signage Guide/ Strategy and Style Guide for the Shire, and implement for consistency across the Shire*

# 3 Provision of POS

## Existing POS

The Shire's existing POS has developed over time, with the central historical town of Pinjarra's riverside Cantwell Park dating back to 1919, along with other mature parks and reserves throughout the town. Suburban development of Pinjarra to North Pinjarra/ Carcoola and west of the town in large subdivisions included extensive provision of POS, with numerous park-centred residential developments.

Although the settlements to West Murray predate this, with Yunderup (previously Yundurup) and Ravenswood dating back to the 1830s to 1880s along the Murray River and the Estuary, the focus for both work and recreation was always on the water, not on parks. The 1970s' to '80s residential developments at South and North Yunderup and Ravenswood provided the first parks in the area and development of the foreshore areas for recreation.

## Landscape of POS

New development and enhancement of existing POS is to be sensitive to the existing natural landscape character of a site, through the retention of existing trees, vegetation, topography and other natural features.

This helps to ensure local character is preserved and that diversity of public open space ensues across the Shire, with diversity of POS that reflects the various characters of town, rural, forest and river/estuarine environments.



Cantwell Park Stage 2 under construction by the Shire



Cantwell Park, Pinjarra 2022

## Residential Development including New Subdivisions and POS Provision

A significant amount of the recent population growth within the Shire has occurred due to the development of existing land, predominantly larger residential land holdings and rural land being developed into new residential subdivisions.

These include South Yunderup's Austin Lakes and various Ravenswood developments, previously rural land, which continue with their development through staged releases of land for residential development.

Sixteen kilometres north east of Pinjarra along the South West Highway and 71 kilometres south of Perth, North Dandalup, situated adjacent to the North Dandalup River, has had recent development of semi-rural and residential land which has included local park development, adding to the town's well-established POS and community facilities within the town.

## Percentage Developer Contribution of POS

New residential developments require the provision of 10% of the gross subdivisible area to be provided as POS under the State planning framework, principles which seek to provide a range of public open spaces that are user friendly, safe and conveniently located.

All future POS provision and developments undertaken through subdivision development and upgrades should align with this POS Strategy.

## Contributions to POS by Developers may include

- **Direct provision of new POS** as part of the subdivision land, with planning and development guided by the Shire and the land developed as new POS, free of cost by the developer, and vested in the Crown under the provisions of Section 152 of the Planning and Development Act 2005 for Public Open Space and foreshore management purposes;

And / or

- **Cash-in-lieu payments** applied in certain circumstances including where there is already an adequate area of public open space within the catchment, with contributed funds going towards upgrade of the existing public open space/s.

## POS Quality Development

It is important that the Shire proactively manages developers' public open space proposals and contributions accordingly. A collaborative approach to the planning, design, construction and maintenance of POS is expected with the developers. This is to ensure that minimum standards are met, but also to aim for higher levels of POS provision that demonstrates creativity and innovation and long-term success for the Murray community.

The Department of Planning Lands and Heritage (DPLH) and the Shire require good quality land for POS, and will not accept degraded and unattractive areas for the development of POS, or areas that result in a fragmented POS network. The land quality is to be at least equivalent to the average quality of land within the development.

The selection of POS area is to be complimentary with the surrounding open space network, to provide continuity of provision and an integrated POS network. This enables connections for walking and cycling and suitable levels of recreational amenity as determined by the POS Classification System.

Any proposed POS reserve names must be submitted for the Shire's approval, in line with the relevant policy and Geographic Naming procedures through DPLH.



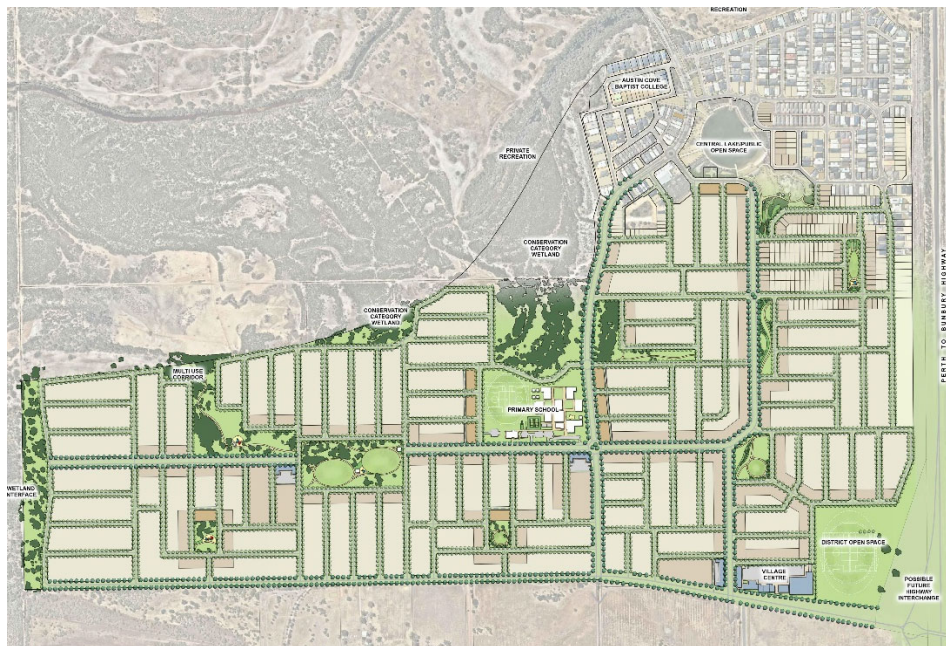
The aim is for a consistent approach to planning and design of developments, including POS, throughout the various stages of development and over time.

Refer Liveable Neighbourhoods for more detail on the requirements for POS development in WA. Liveable Neighbourhoods (LN) is the operational policy of the Western Australian Planning Commission (WAPC).

Refer to this Shire of Murray POS Strategy for the Classification Framework and Design Guidelines to be applied to new and existing POS in the Shire.

Refer in this strategy document Sections:

- 5 Classification Framework
- 6 Guidelines for POS Design and its Key Elements.



Austin Lakes Estate South Yunderup, draft plan showing the existing central lakeside POS and Adventurescape playground to the north and proposed POS to be developed with future subdivision of land [Image supplied by Wolfdene 2022.]

### **ACTION 3.1**

***Prepare summary document/ Flyer for Developers to inform POS development, including Locality guidelines such as Material Palette***

***To assist with enabling all future POS provision and developments undertaken through subdivision development align with this POS Strategy.***



Adventurescape playground, Austin Lakes, South Yunderup

# 4 Classification Framework for Public Open Space

Public Open Space (POS) includes both natural and modified landscapes, including nature spaces, recreational spaces and sport spaces. The classification framework for the Shire's public open space will follow the accepted framework by the Western Australian Department of Sport and Recreation, which was developed through extensive consultation with the DPLH, Local Governments, Parks and Leisure WA and professional industry groups. The Classification Framework will enable universally recognised terms to be applied to each POS within the Shire.

This Classification Framework contains two central categories – Function and Catchment Hierarchy:

## Function

### Recreation Spaces

### Sport Spaces

### Nature Spaces.

## Hierarchy by Catchment

### Local Open Space

### Neighbourhood Open Space

### District Open Space

### Regional Open Space.

## Functions of POS – Recreation - Sport - Nature

**POS is classified by 3 functions based on the primary use and expected activities:**

### Recreation Spaces

Provide a setting for informal play and physical activity, relaxation and social interaction. Recreation Spaces enhance physical and mental health through activity that provides relaxation, amusement and stimulation and can be accessed by all to play, socialise, exercise, celebrate or participate in other activities. Recreation Spaces include gardens and open park areas, community gardens, corridor links, amenity spaces, town squares, public access ways.

### Sport Spaces

Provide a setting for formal structured sporting activities such as team competitions, physical skill development and training. Sport spaces are designed to accommodate playing surface, buffer zones and infrastructure requirements of specific or general sporting activity. Players and spectators attend with the express purpose of engaging in organised sporting activity, training or competition or watching the game. They can also be accessed by community members for informal sport and recreation.

### Nature Spaces

Provide a setting to enjoy nearby nature and protect local biodiversity and nature play area values. Nature spaces provide opportunity for low-impact recreational activities such as walking, cycling, picnicking, playing, watching or exploring natural features. Nature spaces include bushland, river and estuary foreshore areas, wetlands and natural areas including road buffer zones. These sites are managed to enable recreational access while protecting local ecological and biodiversity values.

## Multi-functional POS

Public open space is generally designed to be multi-functional and other than small local parks, will often accommodate several functions within the one site. For example, expansive nature spaces along a foreshore reserve, with smaller pockets of recreational space for play and picnics or barbecues and spaces dedicated to informal sport, including kickabouts and canoe/kayak launch facilities.

Many reserves in the Shire combine recreational and sports spaces for multi-functional POS that is useful for a wide part of the community, including locals, visitors and tourism.

## Recreation Spaces

Recreation spaces within the Shire, including their classification, provision and maintenance, and expected future development, are considered in further detail in this POS Strategy document. This includes parks and reserves, and also considered are town squares, public access ways and streetscapes. Streetscapes include road reserves, medians and verges, which all help to reinforce the identity of a place, provide access and an environment for movement and activity. They are also important as ecological linkages which may connect discontinuous patches of bushland, and provide valuable wildlife corridors.

## Sports Spaces

This Strategy considers informal sport provision within reserves. For more information on the development of the POS reserves that have a formal sports focus, with dedicated sports grounds.

\*Refer the Shire's Active Sports and Recreation Strategy for more information on active sports grounds, ovals and similar that provide for formalised sports (currently draft 2022).

## Nature Spaces and Natural Areas including Regional Open Space

Nature spaces include bushland, wetlands, rivers and other natural areas including river and estuarine foreshores.

For more information on Nature Spaces, refer to the Shire's **Local Biodiversity Strategy**, which is aimed at conserving biodiversity and protecting bushland, wetlands and rivers as the Shire enters a significant growth phase.

The Strategy focuses on Local Natural Areas. These are areas of bushland and wetland outside of lands managed by the Department of Biodiversity Conservation and Attractions (previously Department of Parks and Wildlife.) They include local reserves, private lands and bushland managed by other State Government agencies. They are the areas of bushland over which the Shire has some level of influence as development is planned and designed.

The protection target of 4,527 hectares is to be achieved through a range of mechanisms, mostly linked to land use planning and development, or the eventual protection of land reserved in the Peel Region Scheme as Regional Open Space.

Natural areas are managed to enable recreational access to nature spaces while protecting local ecological and biodiversity values.





## Hierarchy of Public Open Space

In accordance with WA state strategies, a tiered hierarchical system has been developed for POS, to classify POS by its intended purpose and function, catchment, access, typical size, location and design components.

'Catchment' refers to the people who are expected to use the POS, whether it is likely to be used predominantly by local people, the whole neighbourhood, people of the wider district, and through to POS that is regionally significant, which includes the Shire's foreshore reserves and larger and regionally significant open spaces, visited by people from across the region and tourists.

### The 4 hierarchical levels of POS are

**Local Open Space**

**Neighbourhood Open Space**

**District Open Space**

**Regional Open Space.**

This classification system is a planning tool that aids in the provision of POS with a standardised approach and an aim for equitable distribution of suitable facilities across the Shire.

This approach will take time to consolidate. It is acknowledged that anomalies will occur, particularly in the case of existing sites on which development occurred at an earlier time of different needs and trends.

Each of the 4 hierarchical levels of POS are explained in detail over the following pages.

In addition to the 3 Functions of POS (Recreation – Sport – Nature) and 4 Hierarchical levels of POS (Local – Neighbourhood – District – Regional), planning for water use is significant, with 4 Hydrozone categories applied.

## Hydrozone Categories of POS

The hierarchical approach also takes into consideration the Shire's Water Conservation Plan, developed in conjunction with the Department of Water. POS has a water conservation rating allocated to it by 'Hydrozone Category'.

POS Hydrozone categories have been developed to provide appropriate irrigation and water use, to maintain POS to the expected level based on use and profile, while strategically utilising the Shire's groundwater allocation.

### The 4 Hydrozones of POS are

#### Zone 1 High water use, high profile POS

- First grade sporting grounds, which are generally in District reserves and also high-profile parts of Regional POS.

#### Zone 2 Medium water use, medium profile POS

- Areas surrounding active ovals and medium profile areas – usually Neighbourhood and District parks/ reserves.

#### Zone 3 Low use, low profile POS

- Areas surrounding active ovals with a low use, and recreational areas including play spaces and informal sports spaces such as kickabouts – to all hierarchical levels of POS.

#### Zone 4 Dry POS – no irrigation, relies on rainfall only

- Includes, but is not limited to, local pocket parks, dry reserves, bush and conservation areas, major road reserve buffers, dry road verges and foreshore areas with natural areas and treatments.
- Establishment irrigation may in some cases be installed to Zone 4 areas to establish plants over at least the first two summers, with irrigation then decommissioned.

A singular POS may be hydro-zoned utilising some or all of the above zones. For example, a foreshore reserve may have most of its area as Zone 4, dry no irrigation, with smaller areas of Zone 2 or 3 depending on its profile and hierarchy, with for example irrigation provided only to the lawns around a play space or picnic area.

## Waterwise Council

### The Shire of Murray is endorsed as a Gold Waterwise Council in the Waterwise Council Program

The program supports councils/ Local Government Authorities to improve their water efficiency and water management to help create a Waterwise Perth and Peel. The program is a partnership between Water Corporation and the Department of Water and Environmental Regulation, with over 64 councils/ local government authorities involved since its inception in 2009. Platinum Waterwise Council is the highest rating, then Gold, and simply Endorsed, of which some LGAs are still working towards.

A legacy from earlier development and practises, some of the Shire's public open space and streetscapes, particularly street verges require rationalised treatment and hydrozoning, in order to reduce the amount of irrigation assets and water use. Particularly to those areas that do not serve a recreational function, but an aesthetic one only. Current modern landscape practice is to be adopted to reduce water use by introduction of more sustainable and local planting and other waterwise landscape treatments.

The Shire is currently developing an Operating Strategy for bore and irrigation use in liaison with Department of Water and Environmental Regulation (DWER).

#### **ACTION 4.1**

*Review hydrozoning for all POS including streetscapes*

#### **ACTION 4.2**

*Develop hydrozoning plans for POS including streetscapes identified in the Review as requiring improvements or modification*

## Restricted Reserves

Restricted reserves are areas reserved either

- For public or organisational use for particular purposes, such as a tourism building, fire station, library or similar, often with lease arrangements; which provide a high level of public amenity, or
- Restricted use for particular infrastructure or utilities, such as sewer pump stations, tanks, communications towers, fire control access, drainage, water supply, parking, jetty or similar, or
- Are restricted in their amenity provision, such as POS that serve as roadside buffers to major highways, such as the Forrest Highway.

Refer Appendices for list of Restricted Reserves and their function.



Murray Library during landscape works 2021

## Hierarchies - Provision of Facilities by Level of POS

The 4 hierarchical levels of POS are

Local Open Space

Neighbourhood Open Space

District Open Space

Regional Open Space

This classification system is a planning tool that aids in the provision of POS with a standardised approach and an aim for equitable distribution of suitable facilities across the Shire.

The following pages provide the expected provision of facilities for each hierarchical level of POS, to provide guidance, particularly for developers and Shire staff.

Refer also to the Guidelines for POS Design and Key Elements section of this document for further information on the expected design details and level/ type of facilities that are provided for the various key elements of public open space.



Edenvale Heritage Precinct Pinjarra

## Local Open Space

Local open space (LOS) refers to small parks that service the recreational needs of the immediate local residential population.

### Access

Ideally within 400 metres or a 5-minute walk for most residents, up to 800 to 1200 metres or a 10- to 15-minute walk or ride in areas where the residential housing density is lower (which results in larger blocks and houses further apart).

### Size and Configuration

- Typical size of 0.4ha / 4000m<sup>2</sup> to 1ha / 10,000m<sup>2</sup>
- Usually in the form of 'pocket' parks or small local parks, or
- Public access way (PAW) reserves that provide pedestrian and cycle access through the area, with a path and minor landscaping.

### Location, Design and Activities – Local open space

Local open space should

- Be accessible, with safe pedestrian connections.
- Form part of an overall pedestrian network to connect key destination points.
- Support good passive surveillance, allowing views into the park from residences and passers-by.
- Be responsive to natural site features.
- Build on a sense of place.
- Assist to preserve local biodiversity and natural area values.



Local open space, North Dandalup Community Park



Local open space, Anderson Park, South Yunderup



## Local POS - Basic level of Development

- Hydrozone 4 – unirrigated, with establishment irrigation for the first 2 summers only.
- Landscaping - of 'dry seasonal' grass and local trees and some under-planting of shrubs/ groundcovers.
- Access and Seating – provide path/s to seating for rest and contemplation, locate in shade, ideally afternoon tree shade – for access and inclusion requirements, at least 1 bench seat to have a back for support and be available via a path.
- Trees – for shade, biodiversity and park amenity – existing retained; new staked, tied and irrigated for establishment period. Preference is for waterwise local species. Shade paths and seating areas, and include street trees.
- Park name sign.
- Parking provision – roadside parking, or informal verge parking.



Local Open Space with High Level of Development – Aerial view  
Dutton Gardens Park, Reserve R51237, Austin Lakes, South Yunderup

## Local POS - High level of Development

In addition to the items listed for Basic level, for a High level add:

- Irrigated turf / Hydrozone 3, in place of dry Hydrozone 4.
- Play space with play equipment and/or Exercise equipment – sized to suit the POS space and local demographics, with low maintenance items with easily sourced replacement parts, and with suitable softfall and surrounds.
- Additional landscaping including verge landscape of groundcovers, mulched with organic mulch.
- Paths – for accessibility – more extensive paths to connect with wider network of footpaths and seating areas. Perimeter paths, as a walk circuit.
- Shelter – provides a space for gathering and socializing – typically off-the-shelf product of small to medium size 3x3m 4x4m or similar, with furniture to suit.
- Furniture, additional – in addition to basic level seating, off the shelf furniture including benches/ bench seats with backs/ picnic table/s; with built in furniture such as seat walls also an option.
- Perimeter assets, if deemed necessary, including bollards and park gate/ chain.
- Parking provision – roadside carbays, bicycle parking rails of standard U rail type.

## Neighbourhood Open Space

Neighbourhood open space (NOS) serves as the recreational and social focus of a community and has a variety of features and facilities and opportunities to socialise.

### Access

Ideally within 800 metres or a 10-minute walk up to 1200 metres or a 15-minute walk or short cycle. Parking for vehicles also to be provided, usually in the form of roadside car bays and/or small carpark area/s.

### Size and Configuration

Typical size is 1ha / 10,000m<sup>2</sup> to 5ha / 50,000m<sup>2</sup>

Neighbourhood open space is configured to provide a variety of features and facilities, with various permutations dependent on location, from linear riverside parks to sizeable parks that may have various components.

## Location, Design and Activities – Neighbourhood POS

- Central to surrounding neighbourhoods
- Include accessible, safe pedestrian and cycling connections
- Form part of an overall pedestrian and cycling network to connect key destination points
- Good passive surveillance, allowing views into the park from residences and passers-by.
- Responsive to natural site features
- Build on a sense of place
- Assist to preserve local biodiversity and natural area values
- Could be large enough to enable different activities and uses to occur simultaneously.



Moondyne Ramble Park Ravenswood

## Neighbourhood POS - Basic level of Development

- Irrigated turf, Hydrozone 2 -3 – open lawn area to provide year-round kickabout space / larger oval in some instances
- Play space with surrounds, softfall, and play equipment, of level and size to suit space.
- Seating, various including accessible bench seats off paths and suitable seating for around play space and other facilities.
- Picnic settings – table and benches
- Furniture, additional – in addition to bench seats and picnic settings, off-the-shelf furniture including individual seats, large benches or platforms; with built in furniture such as seat walls also an option.
- Substantial landscaping including verge landscape of lawn or groundcovers, mulched with organic mulch.
- Trees – for shade, biodiversity and park amenity – existing retained; new staked, tied and irrigated for establishment period. Preference is for waterwise local species. Shade paths and seating areas.
- Path network – for accessibility - including perimeter paths connecting with surrounding footpath network and internal paths providing access to features and facilities
- Rubbish bins
- Park name signs at path entries
- Perimeter assets, including bollards and park gate/ chain.
- Parking provision – roadside carbays, bicycle parking rails of standard U rail type.

## Neighbourhood POS - High level of Development

In addition to the elements listed for Basic level, for a High level add:

- Multiple play spaces, for diversity of use, well integrated and with high quality equipment
- Exercise equipment
- Drink fountain with dog bowl
- Barbecue/s, electric, accessible
- Lighting, over key elements such as barbecues.
- Shelter – provides a space for gathering and socializing – off-the-shelf product of small to medium size 3x3m 4x4m or larger, sized to suit facilities being sheltered such as barbecue or furniture.
- Furniture, additional – in addition to basic level seating, off-the-shelf or custom furniture to provide seating for larger groups or dedicated functions; with built in furniture such as seat walls an option.
- Other Park infrastructure such as wheelie bin enclosures/ surrounds.
- Access infrastructure such as river bridges, lookout platforms, small jetties and similar.
- Specifically-designated functions within Neighbourhood POS, such as community gardens or dog exercise areas may also have other applicable infrastructure installed to suit.
- Public toilets, dependent on need and location.
- Designated dog exercise areas, with signage, both regulatory and informative.
- Signage – wayfinding signage where size/ form of POS suits, to show connections available and distances and key features.
- Parking provision – roadside carbays, bicycle parking rails of standard U rail type or higher specification as part of furniture suite.

## District Open Space

District open space (DOS) is principally designed to provide for organised formal sport. It typically also incorporates substantial recreation space and also some nature space. The space serves several neighbourhoods with players and visitors travelling from surrounding districts.

### Access

Within 2 kilometres or a 5-minute drive, up to 5 kilometres or less than a 10-minute drive for town DOS; and up to a 15-to-20-minute drive for less urban, more rural areas.

Parking for vehicles is to be provided, usually in the form of roadside car bays and/or well configured carpark area/s that provide access to the variety of facilities.

### Size and Configuration

Typical size is 5ha / 50,000m<sup>2</sup> or larger up to 15ha / 150,000m<sup>2</sup>

District open space is configured to accommodate a variety of concurrent uses, which may include organised sports, children's play, picnicking, exercising including with dogs, social gatherings and individual activities.

Providing substantial space, it is often a combination of spaces for organised sport including oval/s and related buildings and open park areas for recreation including casual play, with particular facilities such as playground/s, along with perimeter trees, bushland, and parking.



Sir Ross McLarty Sports Precinct Pinjarra

### Location, Design and Activities – District POS

- Located central to the catchment to maximise accessibility for the surrounding neighbourhoods / district.
- Accommodate the recommended dimensions and supporting infrastructure for formal sport and recreation.
- Accommodate multiple user groups, clubs and associations.
- Be located on or close to district distributor roads with good passive surveillance.
- Be serviced by public transport networks.
- Include accessible, safe pedestrian and cycling connectors.
- Possible collocation with a school or other community facility/s to create a community hub.
- Assist to preserve local biodiversity and natural areas.



## District POS – Basic Level of Development

- Clubrooms, change rooms, store rooms
- Public toilets, independent or incorporated in the above buildings
- Sporting infrastructure
- Irrigated turf, Hydrozone 1 for open lawn area to provide year-round oval and hydrozoning of other landscaped areas to suit with zones 2 and 3 to recreational areas and zone 4 to bushland and street verges
- Multi-use sports field/ oval/s configured for both summer and winter sports
- Play space with surrounds, softfall, and play equipment
- Seating, various including accessible bench seats off paths and suitable seating for around sports oval, play space and other facilities
- Picnic / barbecue facilities – barbecue and tables/ benches
- Landscaping including trees and shrubs
- Trees – for shade, biodiversity and park amenity – existing retained; new staked, tied and irrigated for establishment period. Preference is for waterwise local species. Shade paths, seating and carpark areas.
- Path network – for accessibility - including perimeter paths connecting with surrounding footpath network and carparks; and internal paths providing access to features and facilities
- Rubbish bins
- Drink fountain with dog bowl
- Signage – POS name/ entry signs at each entry
- Perimeter assets, including bollards and park gate/ chains.
- Parking for vehicles, to perimeter verges, both formal and informal, and service parking bays, often within the POS reserve, for deliveries and servicing of building and facilities.
- Lighting – to oval and other key facilities.

## District POS - High level of Development

In addition to the elements listed for Basic level, for a High level add:

- Multi-use buildings for flexibility of use
- Multiple play spaces, for diversity of use
- Exercise equipment
- Seating, additional to basic level, and related sports infrastructure, such as sports spectator seating, grandstands, platforms, bag racks and similar, for around sports oval, play space and other facilities.
- Shelter/s, to provide spaces for seasonal use, sized to suit facilities being sheltered such as barbecue or furniture, or for wet-weather sports spectating.
- Other park infrastructure such as wheelie bin enclosures/ surrounds, outdoor showers, and similar.
- Access infrastructure such as ramps, bridges, lookouts and platforms over river and wetland areas and similar.
- Paths – additional entry paths and connectors, dual use walk/ cycle path
- Cycle infrastructure, including bike racks and repair stations
- Public toilets, dependent on need and location
- Dog exercise area signage, both regulatory and informative
- Signage – POS name/ entry signs at each entry and wayfinding signage to show connections available and distances and key features and facilities.
- Lighting additional – to secondary facilities such as play areas, and to paths and car parking.
- Parking for vehicles including formalised car park/s sized and located to accommodate the various park uses.

## Regional Open Space

Regional open space (ROS) may accommodate important recreation and organised sport spaces as well as significant nature spaces with conservation and/or environmental features.

ROS may provide substantial facilities for organised sport, play, social interaction, relaxation and enjoyment of nature.

ROS can assist to protect biodiversity conservation and environment values through retention of bushland, wetlands and other natural features.

## Access

ROS serves one or more geographical or social regions and is likely to attract visitors from outside any one local government area.

Users not living within close proximity will use either private vehicles or public transport systems, where available.

## Size and Configuration

Size of Regional open space is variable and can exceed 20ha.

Regional open space should be large enough to accommodate various concurrent uses, including organised sports, children's play, picnicking, bush walking and protection of natural features



Cantwell Park Pinjarra

## Location, Design and Activities – Regional POS

- ROS is allocated outside the structure planning process by the WA Planning Commission in consultation with local government.
- Location of ROS is usually determined by resource availability and opportunities to utilise and/or protect the space.
- Be located on or close to major roads with good passive surveillance.
- Designed for the recommended dimensions and supporting infrastructure for formal sport, where it is accommodated in ROS.
- Assist to preserve local biodiversity and natural areas.

The Shire of Murray's ROS is typically either related to the regional assets of the Peel-Harvey Estuary and Murray and Serpentine Rivers, with open space situated on their foreshores, forming part of the wider Peel Region's water-based public open space; or in its well-established towns including Pinjarra, Dwellingup, and Coolup.

These provide for public open spaces for regional events, culture and heritage, and particular regional centres for sport and recreation, including:

- Pinjarra – cultural and heritage values, focusing on Western Australian indigenous and settlement history;
- Dwellingup – regional Trail Centre and events grounds, recently upgraded, providing beautifully designed nature and adventure-focused tourism resources dedicated to outdoor pursuits including trails, mountain biking and also event spaces;
- Coolup – regional Equestrian Centre - a hub for regional equestrian activities, offering year-round events arena with supporting amenities including grandstand, clubrooms, function room and administration.

These Regional public open spaces (ROS) have significance to the Perth-Peel region, the state of WA and potentially national importance for the Peel region.

## Regional POS – Basic Level of Development

- Sporting infrastructure, and irrigated sports field/ oval/s, where sport is accommodated in ROS – refer to District POS for levels of development expected
- Play space with surrounds, softfall, and play equipment and/or nature play spaces
- Seating, various including accessible bench seats off paths and suitable seating for around sports oval, play space and other facilities
- Picnic / barbecue facilities – barbecue and tables/ benches
- Landscaping including trees and shrubs, along with natural areas of local vegetation.
- Trees – for shade, biodiversity and park amenity – existing retained; new staked, tied and irrigated for establishment period. Preference is for waterwise local species. Shade paths, seating and carpark areas.
- Path network – for accessibility - including perimeter paths connecting with surrounding footpath network and carparks; and internal paths providing access to features and facilities.
- Rubbish bin/s
- Drink fountain with dog bowl
- Signage – POS name/ entry signs at entries/ carparks
- Perimeter assets, including bollards and park gate/ chains
- Parking for vehicles, to perimeter verges, both formal and informal, and service parking bays, often within the POS reserve, for deliveries and servicing of building and facilities.
- Lighting – to key facilities.
- Public toilets

## Regional POS - High level of Development

In addition to the elements listed for Basic level, for a High level add any or all of the following, dependent on location and open space use:

- Multi-use buildings for flexibility of use
- Multiple play spaces, for diversity of use
- Public amenities in addition to toilets, such as showers, laundry facilities, outdoor kitchen areas, fish cleaning stations and similar
- Exercise equipment, including equipment as part of a trail or circuit.
- Shelters, to provide spaces for seasonal use, sized to suit facilities being sheltered such as barbecue or furniture, or for wet-weather sports spectating or events.
- Other park infrastructure such as surrounds, outdoor showers, and similar.
- Access infrastructure such as ramps, river/ wetland bridges, lookout platforms, jetties, water sport infrastructure such as kayak/canoe launches and similar.
- Paths – significant path and trail networks, shared use walk/ cycle paths.
- Cycle infrastructure, including bike racks and repair stations.
- Rubbish and waste infrastructure in addition to standard bins, such as wheelie bin enclosures, skip bins and RV waste dumps.
- Dog exercise areas with signage, both regulatory and informative.
- Signage – POS name/ entry signs at entries/ carparks and wayfinding signage to show connections available and distances, and key features and facilities.
- Lighting additional – to secondary facilities such as play areas, and to paths and car parking.
- Parking, formalised carpark/s sized and located to accommodate the various park uses and vehicle types, including service vehicles, tourist buses bays, event vehicles, pop-up vans, horse floats, boat trailers etcetera; and
- Specific facilities for dedicated use ROS, such as equestrian facilities/ tourism facilities, high level sports facilities, events facilities and infrastructure, and the like.



Dwellingup Trails Precinct



South Yunderup streetscape

## Streetscapes

This POS Strategy builds on the approach led by Healthy Active by Design WA and the Heart Foundation that streets be considered as important, but under-appreciated, public open spaces (POS).

**Streets are a public amenity that most people use and look at every day, whether to walk, or drive along.**

Libraries, community centres, halls and similar, often have related public open space areas that provide spaces for everyone in the public realm. In the Shire of Murray, many of these are actually situated within public reserves.

**Good streetscapes are important to the overall provision of POS.**

**Streets should be designed as places, not just as thoroughfares.**

They should encourage social interactions and create distinct and inviting spaces that people choose to experience. Well designed streets are places where people walk, shop, play, relax, sit and talk, with good residential streets also providing a setting for informal games.

Good pedestrian and cycling movement networks provide safe routes for pedestrians and cyclists to travel between destinations and encourage walking and cycling for transport and recreation.

The aim is for main streets that provide for safe vehicle movement which are also pedestrian friendly, provide links to destinations and places of interest, while reflecting a sense of place, with unique town identities.

Visual and appealing connections not only assist with orientation and wayfinding, but provide enough interest for walking or cycling to be a viable alternative to a short car drive, providing health benefits to the community. Where streetscapes provide shade and shelter, whether from trees or built form including buildings and verandahs, and nodes of interest along their route, whether for activities such as shopping or browsing, historical or environmental interests, they are more likely to be used.

Improved physical connections and upgraded streetscapes are required for the Shire's main streets.

### **ACTION 4.3**

***Develop a Street Tree Masterplan for the Shire with tree species allocated and a yearly Tree Planting Program***

### **ACTION 4.4**

***Develop Streetscapes Plan/s for the Shire's main streets to improve physical connections and plan for upgrades for more aesthetically pleasing and connected places along with engineering improvements***

### **ACTION 4.5**

***Review the Shire's Bike Plan and develop a Dual use path Strategy that provides for cycling and walking and utilising POS for connectivity***



## Streetscapes Examples

Examples of the Shire's main streets to be developed within the Shire's **Streetscapes Plan** include:

### Pinjarra

- Forrest St – plan for connectivity of the Shire's Library and Administration offices and Council to the Murray River foreshore park and boat ramp – for an environmental connection with the existing Heritage walk.
- Heritage walk Pinjarra through Glebe Land/ Church/ Edenvale including Henry St. Plan for pedestrian-friendly improved streetscapes and dual use paths within POS to better connect Edenvale heritage precinct with river parks including Glebe Land / Memorial Park with the RSL war memorial and through to Cantwell Park on the river, backed by George St and over the river to the Hotham Valley Railway POS to the east.
- George Street – review earlier plans and develop Masterplan for the street that builds on Pinjarra's heritage and sense of place.
- Pinjarra Rd – Masterplan to be developed incorporating both engineering and landscape improvements to both the medians and verges, for enhanced streetscape of the Shire's main road.

### Dwellingup

- Newton St | Marinup St | Moore St, Dwellingup: Improvements have been made as part of the Dwellingup Trails Precinct's recent upgrades, with ongoing projects planned. Event use and temporary street closures have been factored into the design; and the plan utilizes the small Community Park for pedestrian connection, a significantly more appealing walk than directly out onto the main McLarty
- North Dandalup – Edward Street Connect the 2 POS - the east / railway park and the west oval Reserve with a new appealing streetscape to Edward Street to provide shaded access between the two.

### Coolup

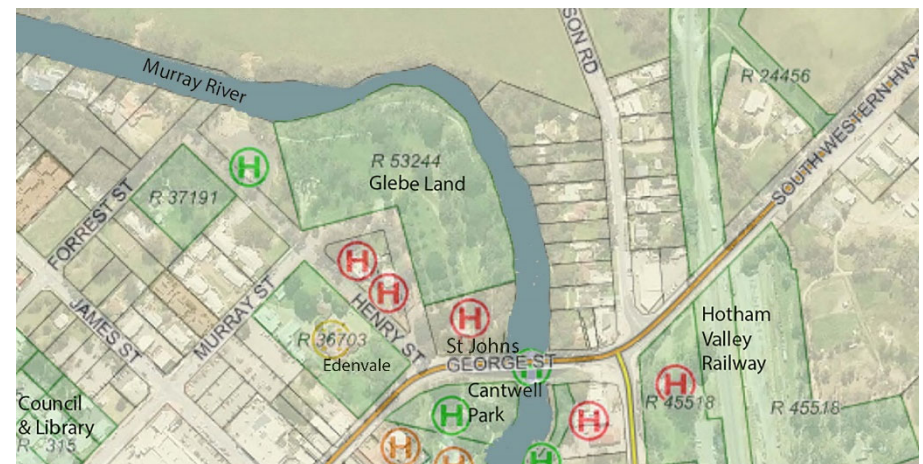
- Murray St – streetscape enhancements to the main street connecting POSs, the shops and residences.

### Ravenswood

- Moondyne Ramble entry off Pinjarra Rd provides an appealing entry off Pinjarra Rd, with landscaping to be renewed as a follow-on from recent improvements to the adjacent POS.

### Entries

- Development of street entries to the towns - planning for landscape and signage to provide inviting and distinctive entries to the localities of the Shire of Murray.



Aerial map of Pinjarra, with Heritage sites indicated and POS shown green

# 5 Guidelines for POS Design and Key Elements

## POS Guidelines for Design and Implementation of POS and its Key Elements

It is critical for long term planning of public open space for the Shire to coordinate its POS provision across its localities, and for good design principles to be applied, for both Shire-led and developer-led development.

This ensures that POS will provide for the needs of the community, be designed for its intended purpose, functional, accessible and safe; and enable the Shire's successful long-term management of its POS in a sustainable and cost-effective manner.

The Classification Framework for POS is a planning tool that aids in the provision of POS with a standardised approach and an aim for equitable distribution of suitable facilities across the Shire.

Masterplans are required to be developed for the Shire's POS where they are not already in existence, to ensure a planned approach rather than an adhoc one to the upgrade of facilities. This requirement is outlined in the Localities section of this POS Strategy document, which provides information on the progress to date and plans for the future.

The Guidelines provide:

- A set of performance criteria and standards for the provision of public open space.
- A consistent process for review and approval of designs in keeping with specific landscape requirements and Shire policy.
- A consideration for local character and existing conditions, including natural features and character.
- A focus for designers to ensure that in addition to aesthetics and visual quality, attention is given to cost-effective landscapes with consideration to ongoing maintenance costs.

## POS Guidelines - Scope

These Guidelines apply to:

- All landscape proposals for development of public open space by owners of residential and commercial properties; and
- For proposals of POS by developers which will be under the future management of the Shire of Murray.
- For ongoing management, maintenance, use and upgrade to existing POS by the Shire of Murray's staff and contractors.

The Guidelines will be used for:

- POS development – for the assessment of initial concept designs and detailed designs for landscaping in association with the process for landscape approval as part of sub-divisional development, prior to the commencement of works on site.
- Development of road reserves (including footpaths, medians and verges) as a part of sub divisional development - as a basis for approval of design drawings submitted by developers in accordance with the subdivision approval and clearance processes, and for
- Landscape Approvals for landscaping works on existing public open space by developers or Shire staff.

Submission and Assessment:

- All Landscape proposals are to be submitted to the Shire where they are to be assessed by a multi-disciplinary panel of suitably qualified and experienced staff.
- Approval by the Shire is to be in writing.

Refer also to the **Landscape Documentation Checklist** in the Appendices

## Professional Design Assistance

Where a development is of a large scale and the approval of a Landscape Plan and related documentation forms part of the Development Application (DA) Approval, a professional Landscape Architect or other designer with a degree and experience in landscape architecture/ landscape design/ horticulture and/or urban design should be engaged to complete the drawings. This will assist with the processing of the submission/application.

The Shire encourages the involvement of such a professional/s at the earliest possible stage in the development project to ensure appropriate consideration of site and landscape factors and the criteria set out in these Guidelines for POS.

## Key Elements

In addition to good quality landscaping and retention and enhancement of natural areas, key elements of POS include the following, with brief information provided for each particular space or element of infrastructure and Guidelines to assist with their design and implementation.

The purpose of these Guidelines is to ensure that infrastructure in public open space meets functional requirements and enhances the use of the space, whilst minimising any risks to public safety and providing for cost-effective maintenance.

- Community gardens
- Dog exercise areas
- Drainage and Earthworks
- Event Spaces
- Furniture including barbecues and drink fountains
- Infrastructure – communications, electrical
- Irrigation
- Landscaped Areas – Planting and surrounds
- Lawn grass – Turf
- Lawn substitutes and native or ornamental grasses
- Lighting
- Memorials – Plaques and seats
- Play spaces
- Public Art
- Paving and other Hardstand Materials including Concrete
- Shade Sails
- Signs
- Skate Parks/ BMX and Pump Tracks
- Sports facilities including Courts, Exercise equipment, Goals etc.
- Waterways and Canoe and Kayak facilities
- Parking – carparks and other
- Perimeter Assets – Bollards, Fences, Gates
- Road Reserves and Medians
- Roundabouts
- RV (recreational vehicle) Facilities
- Signs
- Structures
- Trees
- Verges
- Walls, retaining walls, feature walls
- Waste infrastructure including Bins, waste skips
- Water supply including taps, meters



The **Guidelines for POS Design and Key Elements** in this POS Strategy document replace the **Landscape Guidelines for Streetscapes and Public Open Space**.

Refer also to the **Infrastructure Asset Management Plan 2020** for future funding requirements for the following types of assets, including Parks and Waterways assets and expected levels of service.

The Infrastructure Asset Management Plan covers the following types of assets:

<b>Bridges:</b>	<b>Parks:</b>	<b>Parks Continued:</b>
Traffic Bridges	Bus Shelters	Signs
Pedestrian Bridges	Carparks	Lighting
<b>Buildings:</b>	Fences	Entry Statements
Building - Structure	BBQ's	Flag Poles
Building – Roof	Benches	Garden Arbours
Building – Fitout	Bike Racks	Gazebos
Building Mechanical Services	Gates	Information Bays
<b>Drainage:</b>	Park Benches	Memorials
Stormwater Pits	Picnic Table and Chairs	Rotunda
Stormwater Pipes	Rubbish Bins	Sculpture
Culverts	Water Fountains	Shelters
<b>Footpaths:</b>	Water Taps	Clock
Concrete / Concrete Pavers	BMX Facility	Communications Tower
Brick Paved	Basketball Courts	Feature Walls
Asphalt	Cricket Nets	Totem Poles
Timber	Cricket Wicket	<b>Roads and Kerbs:</b>
<b>Waterways:</b>	Football Goals	Sealed Road
Barge	Football Scoreboards	Unsealed Road
Boat Ramp	Multi Courts	Kerbs
Canal Wall	Skate Parks	
Canoe Launch Facility	Soccer Goals	
Floating Jetties	Tennis Courts	
Jetties	Play Equipment	
Pontoon	Garden Bed Kerbing	
River Walls	Retaining Walls	

## Maintenance by a Developer – to Handover to Shire

The intent of these Guidelines is to provide for the proper evaluation of maintenance programs and costs to ensure that any initial maintenance issues are addressed prior to handover of infrastructure to the Shire.

### 1.1 General

1.1.1 A detailed Maintenance Program shall be submitted for consideration and approval by the Shire prior to construction.

1.1.2 The maintenance program shall include a nutrient management plan, detail on intended water use, types of fertiliser and herbicides, mowing frequency and heights, and a maintenance schedule for all irrigation equipment.

1.1.3 An initial soil and water analysis must be undertaken prior to grass establishment to provide details on fertiliser requirements.

### 1.2 Maintenance Period to Handover

1.2.1 Maintenance by the Developer of a landscape development for streetscapes and/or public open space is for a minimum of 2 years, with other situations by agreement for an extended period as prescribed as each situation requires.

1.2.2 Biannual inspections of all infrastructure are to be carried out by the Developer with Shire staff during the maintenance period to ensure adherence to functionality and safety conditions.

1.2.3 The Shire shall be responsible for minuting each inspection discussion, with an electronic copy to be provided by the Shire's representative at the meeting within 3 working days of each inspection to all other representatives at the meeting.

1.2.4 Soil, water and tissue analysis for determining ongoing fertiliser and nutrient requirements for plants and grass shall be conducted at the end of the first maintenance year and immediately prior to handover. The report that is generated is to be provided electronically to the Shire within 14 days of the samplings.

For Maintenance of POS by Shire staff and contractors, of Shire managed land and assets, including that handed over by Developers, refer also **The Shire of Murray Parks and Reserves Maintenance and Operational Plan** which establishes key routine maintenance practises for Shire managed parks and reserves including:

- Inspections
- Maintenance levels of service
- Maintenance response times.

#### **ACTION 5.1**

*Review and update the procedure documents for the acceptance of POS from developers as part of subdivision development – from Development Application | Approvals of Documentation | Construction | Maintenance Period | to Handover to Shire*

## Key Elements of POS – Guidelines for Design & Installation

### Play spaces

Play spaces / playgrounds serve as a place for community members with similar interests and at similar stages of life to meet, interact and develop social networks. Communities require a range of play opportunities which are equitably located and easily accessible, within pedestrian access of most urban residences. Play spaces need to be inviting and encourage children and families to interact.

There is a total of 31 playgrounds currently, with an estimated replacement value of the play items alone of approximately \$1.3 million. A number of new play spaces will be constructed within the new subdivisions throughout the Shire of Murray to meet the needs of these new communities, many with young families. Older play spaces will be reviewed, for equitable provision between new and old residential areas.

A strategic approach will assist with the responsible management of these assets and suitably located quality play spaces.

The strategy provides direction for:

- Placement of play equipment based on the POS hierarchy.
- Design considerations for quality play spaces.
- A process for review and replacement of play facilities.



Existing play spaces have been classified as:

- Local
- Neighbourhood
- District
- Regional

This allows for the strategic provision of a range of play spaces and guides the minimum standard requirements for each level. This ensures a strategic approach to play space development, with an aim for sites being used to their best advantage, while avoiding duplication and over-investment in the wrong places.

In planning for more enjoyable, accessible and safe play spaces, budget allocations are required which recognise not only the initial cost, but the ongoing maintenance costs and eventual replacement cost. Off-the-shelf play equipment typically has a life expectancy of ten to fifteen and up to twenty-five years, depending on its configuration and main components, and also where it is located and therefore level of use and environmental and climatic wear.

Regular assessment and maintenance checks of play infrastructure is required to minimise injury from faulty equipment. This includes all installed equipment and also play surrounds and softfall (which may be sand, mulch or rubber). All of which have particular safety requirements to be met.

The ten-year capital works and maintenance programmes need to reflect appropriate budgets for play spaces throughout their life span.

Refer Appendices for Asset Management Data listing existing play equipment and value.

#### **ACTION 5.2**

***Map the Shire's play spaces and their facilities/ equipment to show distribution and undertake Gap Analysis and Future plan for new facilities, renewals and upgrades***

## Design Guidelines – Play Spaces

1. Play equipment and surrounds shall comply with relevant Australian Standards (AS).
2. Design should be site-specific, should capture the imagination, and also provide a challenge, while meeting the following requirements:
3. Equipment supplier's fallzone requirements, in adherence with the relevant AS, shall be provided for in the design by designing and installing with adequate space between play items, which are to be confirmed through a safety check at Practical Completion.
4. Approved soft-fall material of sand and/or playground mulch and/or in-situ rubber softfall shall be installed to required specifications within play areas.
5. Sand soft-fall shall be enclosed as a sandpit by a limestone edge restraint or other Shire-approved materials, to provide for the necessary depth of softfall.
6. A level entry point of a minimum 1.5m wide into the pit shall be provided for in order to provide for easy access for maintenance include sand-cleaning and play equipment checks and maintenance.
7. White washed playground grade sand shall be used for play sandpits, other than in wind affected sites, where Gingin quartz sand shall be used instead.
8. Any custom-designed play equipment shall require an approved safety audit by an accredited person/ company, building licence and structural certification by an accredited engineer.
9. Design details of all proposed play equipment shall be provided to the Shire for assessment and approval prior to ordering, for both off-the-shelf play items and custom designed items including nature play elements.
10. Fencing is generally not specified, with the preference for play areas to be open to and integrated with the wider park area, for open play; and also for parents and carers to be nearby without a fence between them and playing children. Exceptions may apply where a fence to a play space is deemed necessary for safety reasons, where the play space is close to a busy road or other major hazard. In this case, it is usually the practice to provide only partial fencing, by installing a fence only to the side of the play space that faces the road, for example, to deter children from a quick run out onto a hazard. Other devices may also be incorporated, such as landscaping that provides something of a barrier, and/or rocks and logs, which although not a complete physical barrier, will slow children down sufficiently for supervising parents/carers to catch young children quickly enough.

Refer the **Perimeter Assets** topic in this section for more information on fences for play spaces and other areas of POS.

Play Australia believes that children need to be appropriately supervised in public playspaces, as stated in AS4685-2014, and that Councils should plan to enable adults comfortable access to playgrounds by way of provision of adequate seating near to the play equipment, provision of water and toilets nearby etc. Councils are not encouraged to erect structures such as fences or gates intended to separate children from adults but to design stimulating playspaces in accord with Australian Standards for Playground Safety that will foster greater use by children and their families. Play Australia supports the need for some fenced play areas across the municipality in order to enable some families to enjoy playing in public playspaces. Eg. Children on the autism spectrum in particular.

Copied from

<https://www.playaustralia.org.au/sites/default/files/LibraryDownloads/FencingandPublicPlayspaces.pdf>.

## Skate parks/ BMX / Pump tracks



A number of skate parks/ tracks for bmx/ scooters and pump tracks exist around the Shire including North Dandalup, South Yunderup, and those depicted, at Pinjarra and Dwellingup.

These facilities are generally located in POS to complement other sporting and play space facilities, to provide youth recreation. Related infrastructure such as access paths, shade, seating and a drink fountain are appropriate assets that add to the recreational appeal of the spaces.



Pinjarra skate park

Dwellingup Pump Track has a fit-for-purpose warm up facility for bike trail users featuring three difficulty levels. The pump track is also popular with families with children.



Dwellingup Pump Track





## Community Gardens

Community gardens are great places where people come together to grow food, foster good health, support life-long learning and cultivate vibrant communities.

A community garden has been established in Pinjarra and is run by an incorporated body. With the establishment of incorporated bodies for the ongoing management, the Shire is supportive of the creation of additional community gardens, with input from the Shire on location and design.

## Dog Exercise Areas

As residential properties are developed on smaller lots and dog ownership is popular, the provision of dedicated fenced dog exercise areas are increasingly desired. Any future installation of dedicated dog exercise areas within POS would need significant public consultation with the public, Shire officers and Councillors to determine the best location, configuration and inclusions.

Many of the Shire's existing POS already have on- and off-leash areas designated for dog exercise, information on which is provided to the public via the website, including maps. Areas where dogs are prohibited also exist, and dog management areas across the Shire are regularly reviewed to ensure community needs are met, with adherence to the Dog Act 1976 and subsidiary relevant Local Government Regulations regarding control of dogs in public places.

## Drainage and Earthworks

The intent of these Guidelines is to ensure that earthworks and drainage systems are developed to manage the on-site infiltration or retention of stormwater to the extent possible, and to prevent any lateral adverse impact on existing wetlands, watercourses and water bodies.

1. Where a site is adjacent to a natural aquatic system, earthwork design shall provide for surface runoff to be contained within the site rather than into the natural system.
2. Earthwork design shall incorporate features and functions of the landscape's natural drainage system, wherever possible and shall maximise onsite retention and infiltration of rain and water from irrigation.
3. Gradients shall be
  - o Grass areas shall be graded to a level equal to or flatter than 1:6, to enable mowing; and
  - o Planted areas shall be no steeper than 1:3, with erosion control infrastructure installed as and where necessary to ensure easy maintenance and minimise erosion or other adverse effects.
4. Runoff of hardstand areas shall drain to adjacent landscaped areas, which shall be designed to suit.
5. Stormwater management systems are to integrate with the urban landscape, enhance land use function, improve urban micro-climate and provide amenity.
6. Stormwater infrastructure is to be integrated within POS to meet hydrological / ecological / environmental functions while maintaining functionality of public open spaces, which includes:
  - o Having sufficient level grass areas for active play/ kickabouts all year around, not just during the dry seasons;
  - o Use of Water Sensitive Urban Design principles that add to the amenity of POS rather than to the detriment, such as the use of living streams, landscaped drainage basins and sensitively designed car parking areas.

Refer also DWER and Water Corporation stormwater infrastructure in open space area guidelines, including:

Stormwater Management Manual for Western Australia 2007 Department of Water.

Decision Process for stormwater management in WA 2017 DWER.

Water Sensitive Urban Design brochures, Department of Water.



## Event Spaces

The Shire of Murray hosts numerous events that have regional attraction.

Regional Open Spaces in the well-established towns of Pinjarra, Dwellingup, and Coolup provide for public open spaces for regional events, culture and heritage, as well as for sport and recreation. Refer to the Regional Open Space topic in the Classification section of this document, and the detailed POS inventory in the Localities section for more information.

Design for event spaces in POS may include provision of some or all of the following:

- 3 phase electrical power
- Lighting
- Water taps / drink fountains
- Vehicle parking for service vehicles, specific bays such as pop-up food van bays, an/or overflow parking for visitor parking to accommodate the influx of vehicle parking required during large events
- Hardstand areas suitable for temporary stages, spaces for marquees, stalls and similar.

Design for low maintenance and minimal recovery time post event is crucial.

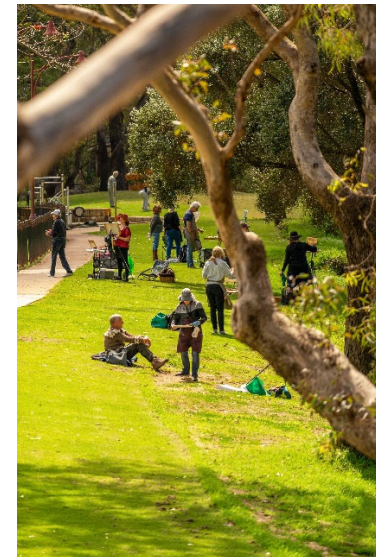
The Shire manages online bookings of all of its venues/facilities, parks and sporting ovals, providing spaces for hire from small events such as gatherings, parties and weddings to larger events such as seasonal celebrations, fairs and similar.

### **ACTION 5.3**

*Prepare a Flyer that can be provided to event holders with simple guidelines on use of POS for events*



Plein Air Festival, Pinjarra held at Edenvale (above) and Cantwell Park (below)



## Furniture including Barbecues, Drink Fountains & Park Furniture

### 1. Materials

- Preference is for furniture to be constructed of steel, aluminium, plantation timber and/or recycled plastic.
- Other materials may be considered and approved by the Shire. Approval required by the Shire, with site-specific requirements for material specifications for particular locations, such as estuarine and river locations, including surface treatments, powdercoating and similar.

### 2. Preference is for furniture that can be easily maintained and has parts such as replacement seat battens readily available, ideally from a local/ WA or Australian supplier.

### 3. Drink fountains shall be

- Installed with an isolating valve in an accessible valve box located close to the infrastructure.
- Where installed in or near a dog exercise area or walking path, drink fountains are to include a dog bowl that can easily be tipped for emptying of the water.

### 4. Seats and shade should be an integral part of the design for play and barbecue/ picnic areas and/or along paths within public spaces. Natural shade is preferred. Refer the Shade Sails and Shelter information topics within this document for more information.

### 5. Barbeques to be

- Provided within functional communal spaces suitable for community gatherings without adverse impact on adjacent residents. Shire to approve all locations of barbecues prior to installation.
- Electric barbecue, off-the-shelf item, preferably an accessible table unit, of product style and supplier approved by the Shire.
- Installed with appropriate drainage and soak wells to dispose of collected rainfall from the fat trap.

### 6. All furniture, including barbecues, seats, tables and benches shall be set onto a hard stand area, usually in-situ poured concrete of 100mm depth, thickened as necessary to meet the furniture supplier's recommendations for footings and similar, of dimensions to provide circulation space and accessibility. Unit paving or compacted gravel may be an option in some locations, with Shire approval.

When on concrete, the preference is for bolt-down fixings with anti-vandal tamper proof fixings, to enable easier maintenance or replacement of furniture /components.

Refer the Paving and Other Hardstand Materials topic in this document for further information.

#### **ACTION 5.4**

***Develop Style Guide/ Material Palette for the Shire and specific Locality Material Palettes for various localities, for consistent suites of furniture and other infrastructure, to create a style and sense of place, which will also be utilised by developers.***



Pinjarra war memorial

## Irrigation

The intent of these Guidelines is to ensure that irrigation systems are designed and installed to provide reliable water sources, to minimise water usage, to prevent damage to irrigation equipment and ensure cost-effective maintenance of irrigation components.

1. Irrigation system designs shall be submitted as part of the Documentation set of drawings, as Irrigation Plans and Specifications along with the Landscape Plans and Specifications, for Shire assessment and approval, prior to any landscape and irrigation works being undertaken.
2. Bore licence and application forms and related details shall be provided to the Shire at the time of issuing to the developer by the Department of Water and Environmental Regulation (DWER).
3. Irrigation installers are to be an accredited member of the Irrigation Association of Australia (IAA).
4. Waterwise design principles shall be incorporated into irrigation designs for all landscaped areas, including tree, shrub/ groundcover planting and grass, and incorporating hydrozones and ecozones.
5. Hydrozones will determine the intent of irrigation, whether for establishment purposes only or as a permanent system. For Hydrozones 1, 2 and 3, turf areas as a minimum require the irrigation to be designed and installed as permanent irrigation, for the Shire to continue with following the agreed establishment/ maintenance period pre Handover. Establishment irrigation may in some cases be installed to Zone 4 areas to establish plants over at least the first two summers, with irrigation then decommissioned.
6. Watering times for irrigation and water usage shall be in accordance with relevant legislation and designs shall maximise the coefficient of uniformity to enable optimal watering.
7. Irrigation designs for hours of operation shall be to the requirements of licence constraints as issued by the DWER, currently between 6pm and 9am; with the Shire's preferred time being between 10pm and 6am during lower public use times.
8. Within subdivisions, water supplies shall not be limited to one water source, with each public open space greater than 4000 m<sup>2</sup> preferably to have its own water source connected to the Shire's central Signal Irrigation control system.
9. Bore and pump capacity shall comply with the approved design specification for Irrigation System Specification and Bore Construction Specification.
10. Irrigation shall be designed and installed to these System Specifications and be capable of connection to the Shire's central Signal Irrigation control system.
11. Irrigation controllers and valves shall be installed within the private property boundary.
12. Irrigation controllers are to include a GSM Communications Unit, for remote access.
13. Soil cover over pipe work shall be to industry standards.
14. Mains pipe work shall be buried a minimum of 450mm below ground level.
15. Lateral pipe work shall be buried a minimum of 300mm below ground level.
16. All changes of direction for mains shall have thrust blocks of the correct size as per specification.
17. The location and type of spray outlets should be selected to avoid water spray onto roads, crossovers, paths and other paved areas, play equipment and other key infrastructure including furniture.
18. Where in-ground irrigation is installed within turf, no part is to protrude above ground level except for sprinklers during operation.
19. Turf shall be irrigated using pop-up sprays or gear drive sprinklers.
20. Planting areas shall be irrigated by emitters, bubblers, or below ground drip irrigation systems, pop up sprays or gear drive sprinklers.
21. Solenoid valves, isolating valves and/or gate valves are all to be installed within public open space where practical and be in approved valve boxes.
22. Irrigation outlets shall be placed greater than 300mm off back of kerb lines for low traffic volume roads or 1.2m for higher traffic volume roads.
23. Irrigation cabinets shall have the Shire's "A" key locks installed before handover to the Shire.
24. The bore and pump shall be serviced 4 weeks prior to handover, with all service history verifications to be provided to the Shire at handover.

### **ACTION 5.5**

***Review Irrigation guidelines to develop an Irrigation Specification that can be applied across the Shire's POS including by developers, for consistency of systems and their components; and adoption of up-to-date technologies.***

## Landscaped areas – Planting and Mulch

The Shire has a range of natural landscapes that have intrinsic natural and cultural value, many of which occur around specific landforms and associations of native plants that form natural communities. The development of streetscapes and public open space should, where possible, take account of naturally occurring plant communities and provide for the enhancement of ecological systems through the introduction of new landscape development.

The Shire is committed to environmental sustainability including conservation of flora, fauna and water, the use of renewable resources and a preference for waterwise designs, with optimum ongoing maintenance methods.

The design of streetscape and landscapes are critical to ensuring that public open space is attractive, functional and cost-effective to maintain.

The following Guidelines re planting and mulch apply to landscaped planted areas:

1. Plant species shall be selected to minimise water, fertiliser and on-going maintenance, with the use of local native species being preferred.
2. All plant species shall require Shire of Murray approval.
3. Planting design and species selection shall not impede sight lines for motorists and shall be in accordance with MRWA and Shire standards.
4. Plants that grow to a maximum height of 750mm at maturity are permissible within 5.0m of a pedestrian crossing.
5. Planting within public access ways (PAWs) shall generally be of low shrubs and/or groundcovers in order to ensure surveillance over the full length of the PAW.
6. Groundcovers or shrubs shall be planted more than 1000mm/ 1m away from a path, driveway, public service facility or any other structural element within the verge.
7. Whenever possible, planting, even where irrigation is present, shall be undertaken during the months of May to September, when rain is expected.
8. Mulch shall be applied around all plantings, unless otherwise advised by the Shire due to environmental factors such as expected flooding or wind conditions, mulched with
  - Tub-ground plantation pine or
  - Recycled green waste older than 15 months or
  - Another type of mulch as approved by the Shire.
9. Peat shall not be used in any mulch application.

10. Mulch shall be placed to a minimum depth of 75mm, ideally at 100mm and kept away from tree trunks and young plants; and placed so as not to migrate onto paths or other surfaces.

### **ACTION 5.6**

*Review existing POS landscaped areas  
and  
Develop and implement ecozoning plans as a component  
of the hydrozoning review for all POS including  
streetscapes*

## Lawn grass – Turf

The intent of these Guidelines is to ensure that turfed areas are provided in appropriate locations that are useable by the public and complementary to landscape design, whilst providing for cost-effective maintenance and avoiding small, inaccessible areas that are difficult or time-consuming to maintain.

Guidelines for the design, installation and maintenance of areas of lawn grass are:

1. Gradients shall be equal to or flatter than 1:6.
2. Grass areas shall be greater than 3.0m wide and 3.0m long, with sizes and shapes to be practical for purpose, and practical for mowing and edging.
3. Design shall provide for areas to be accessible by a 1.8m ride on mower and to allow for a turning circle of 3.0m radius around any trees, structures or furniture.
4. Lawns that serve a purpose are encouraged, including for sports and informal play areas, including kickabouts. Where ornamental purposes only are desired for a 'green space', the preference is for the use of alternative more waterwise plant species – refer below under the subheading Lawn Substitutes for more information.
5. Areas of grass in POS shall have ride-on-mower connectivity, without having to go on to the adjacent roads.
6. Grass areas shall be bounded by a road or garden kerb, path or other approved solid material.
7. *Pennisetum clandestinum* (Kikuyu) is the preferred species for POS,
8. To be installed by roll on turf or by stolons.
9. To be permanently irrigated, to meet the hydrozone applied to the area dependent on Classification. Refer the Classification Framework section and specific information on Hydrozoning and ecozoning in this document for more information.
10. Grass areas within 15m of a natural waterway and/or wetland, Bush Forever Site and/or other area of environmental significance, are to have:
  - o A continuous root barrier to a minimum depth of 700mm installed under and contiguous with the footpath, mowing and/or planting edge material.
  - o It is preferred that a concrete footpath separate the grass and area of remnant vegetation/ natural feature.
11. Grass shall not be installed within public access ways (PAWs) less than 5.0m in width. The preference is for planting of local plant species instead.

## Lawn substitutes and native or ornamental grasses

- Where suitable to the purpose, native or ornamental grasses may be substituted for lawn grasses.
- Native or ornamental grass proposed for verges shall be selected to grow to a maximum height of 750mm at maturity and/or maintainable to that height.
- Groundcovers, preferably of local and other Australian waterwise species, that are not recognised weed species, are good substitutes for lawn grass.



## Lighting

Lighting to high activity locations is a way of increasing the use of POS with good amenities and to increase recreation and family leisure time. It also aids passive surveillance and user safety. Lighting of barbecue and picnic areas into the evening, particularly during the summer months, is incorporated into POS design, as is lighting of popular walkways and other facilities.

Provision of lighting to sports grounds to appropriate standards for training and night games is applicable to district and regional level facilities.

Refer to the Classification section of this document for the level of lighting expected based on the POS Classification of reserves and parks.

All lighting for streets, parks, hard courts, ovals, etc. shall be in accordance with Australian Standards.

Preference is given to the selection of lighting from the normal and decorative range provided by Western Power, for streetscapes and adjacent path lighting.

Within POS, lights are to be LED luminaires on 4.5m powder coated poles, with timers, designed and installed to provide adequate path and facility lighting.

Other lighting, such as bollard lights and shelter lights may be applicable in certain circumstances or locations, with Shire approval.

### **ACTION 5.7**

*Review existing POS lighting provision  
and  
Develop lighting guidelines*

## Memorials - Plaques and Seats

Over time, the Shire has installed a number of memorial seats in public open spaces, usually the park popular with the deceased during their lifetime. The area requested for the placement of memorial seating determines the type of seat and costs vary accordingly. Typically, a commemorative plaque or multiple plaques is installed on the seat or other infrastructure as requested.

A local Policy is needed to assist with the requests, as they increase, to provide equitable distribution and consistent treatment, and consideration of life-time costs and decommissioning guidelines.

The Shire's cemetery is in Pinjarra within designated POS to the south of the town. Dating back to the early days of settlement in the area, it has been developed over time with park-like characteristics and amenity, but still has remaining available space for memorials and burials.

The planning for the future Regional Cemetery in Nambeelup as part of the Perth and Peel plan is in its early stages, and will be further developed when Pinjarra's and Mandurah's cemeteries are nearing capacity.

### **ACTION 5.8**

*Develop Policy and related Guidelines for  
Memorials in POS  
to guide the future placement of memorials*

## Parking

Refer Shire Engineering guidelines and Crossover Specifications.

Careful consideration of siting and natural shade from trees adds to the appeal and useability of car parks within POS.

Car parking is generally provided to the perimeter of a park or reserve, size and number of bays dependent on classification.

Refer expected car parking provision under the section in this document Provision of Facilities by Level of POS – Local | Neighbourhood | District | Regional.

### ***ACTION 5.9***

***Review Parking Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers, for consistency of application and adoption of up-to-date materials and technologies.***

***Prepare Standard Drawings as component of the Specification/s***

## Paving and other Hardstand Materials including Concrete

The intent of these Guidelines is to ensure that paving and other hardstand such as concrete areas are designed to cater for safe and convenient pedestrian access, to ensure access for maintenance purposes and to reduce the need for labour-intensive maintenance of grassed and landscaped areas adjacent to paths and roads.

1. Paths and other paved areas to be installed in accordance with Australian Standards AS 1428.1/2/3/4: 2002, Design for Access & Mobility and subsequent updates.
2. Preference is for street and park perimeter paths to be located parallel to and abutting the kerb in Local streets.
3. Widths of paths to be a minimum of:
  - o 2.0m wide, including those in public access ways (PAWs)
  - o 2.5m wide, for paths abutting kerbs, with the 2.5m measured from face of kerb
  - o 3.0m wide for designated shared paths.
4. For streets with a higher traffic volume, paths should be installed separate from the kerb, inset from the kerb to allow for a landscaped verge area between kerb and path, planted, turfed or paved in the same or different material to the main path.
5. Path crossings at roads to have pram ramps installed to Shire standards - refer Shire's Standard Drawing.
6. Recreational and shared use paths to have a lateral clearance of 1m (500mm minimum) between any object and the edge of the path – refer AP 11.14/99, Bicycles.
7. Pedestrian paths may intersect at any angle, subject to sightlines and safety aspects.
8. Road paving at path crossing points are not to be highlighted with colour, different paving, texture or by any other means unless the crossing is a Zebra Crossing approved by Main Roads Western Australia (MRWA).
9. Where tactile paving is to be installed, preference is given to the use of unit Tactile paving - refer Shire's Standard Drawing and AS/NZS 1428.4:2002, Design for Access & Mobility – Tactile Indicators.
10. Preference will be given to path material that is functional to purpose, cost effective and low maintenance.

11. Where unit paving is being installed as the path material or as an edge restraint, a concrete haunch is to be installed to industry / paver supplier's standards to ensure it is retained in-situ.
12. The use of loose gravel aggregate, stone or other hard material is only to be used if it can be suitably retained in-situ on a relatively flat site, or is permanently fixed in place with concrete, adhesive or other approved binding product.
13. The balance of the width to the kerb or other boundary is to be planted or
14. Paved access for maintenance and emergency vehicles shall be provided to all public open spaces and be constructed in accordance with the Shire's Crossover Specifications, secured with a lockable removable bollard or gate.

### **ACTION 5.10**

***Review Paving and Hardstand Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers, for consistency of application and adoption of up-to-date materials and technologies.***

***Prepare Standard Drawings as component of the Specification/s***

## Perimeter Assets – Bollards, Fences, Gates

Bollards are generally only installed in areas adjacent to flush kerbing or where undesired vehicle access is likely to occur, or where POS areas are developed with little passive surveillance from surrounding residents.

It is not expected that POS will have bollards to the entire perimeter, or to be fenced or gated, except around valuable infrastructure assets that require protection or access control, such as some electrical and water infrastructure assets.

All fencing, gates and bollards shall be constructed from durable and hard-wearing materials suitable for exposure to outdoor conditions.

### Bollards

Where bollards are installed, the following specification applies:

- Material preference is for the use of the following, as approved by the Shire:
  - 'Tanalith' water based preservative treated pine or other plantation timbers
  - Recycled plastic / High Density Poly Ethylene (HDPE), or
  - Metal bollards.
- Located on the property boundary or, where appropriate, aligned with perimeter tree planting.
- Where possible, bollards are not be placed in grass areas, with suitable alternatives being to locate them in garden planting beds or set into a paved mowing edge.
- Spaced at a maximum of 1.5m centres.
- Installed with a concrete footing, subsurface finish to allow cover by the surrounding surface treatment, whether lawn, mulch or garden bed.
- Where bollards or fencing prohibit vehicular access into or within a POS, provide a gate or removable bollards to allow access by maintenance vehicles.
- 

- Removeable bollards are to be installed to allow for temporary access for service vehicles and the like. Standard specification is the following, or in certain circumstances as approved by the Shire a higher specification may apply:
  - Steel circular bollard of 140 to 150mm diameter, powder coated white with reflectors, set into removable bollard sleeves installed in concrete,
  - With lockable padlock.

### Fences

Private boundary fencing to POS shall be designed to allow surveillance, so that it is permeable fencing that can be seen through.

No brush wood or other timber products (eg: pine lap fence or similar) shall be used on road reserve boundaries.

### Fences to Play spaces

The Shire of Murray, as with other local government authorities and as supported by Play Australia, does not support the provision of fencing around play spaces / playgrounds except where there are particular issues concerning access, but not as a safety barrier; firstly, because fencing does not prevent most children from running away if they wish to, and secondly it is the responsibility of parents to supervise their children in public open space.

Parents and carers are responsible for the supervision of children, and not the Shire, which is responsible for the physical landscape and infrastructure, spending considerable resources in managing public open space including its long-term maintenance.

## Gates

Where fences are provided within POS and to boundaries, gates are generally provided for access for service vehicles for mowing and maintenance, and for pedestrian access into parks and facilities.

A simple chain with posts and keyed padlock is a common basic provision within perimeter fences or bollards.

### **ACTION 5.11**

*Review Perimeter Asset Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers.*

*Prepare Standard Drawings as component of the Specification/s*

## Public Art

The Shire encourages and provides approval for public art within public open space, streetscapes and other public spaces.

Locations and scale of public art, particularly within streetscapes and other situations where pedestrian/vehicle conflicts may occur, shall ensure appropriate setbacks and sight lines are achieved.

Artwork and sculpture for public places should be designed to minimise maintenance, resist vandalism and be structurally sound. Materials are to be suitable for external conditions in all seasons.

Public art can have a significant impact on the vibrancy, appearance, character and amenity of public open space and streetscapes.



Pinjarra pedestrian bridge mosaic art



## Road Reserves and Medians

All medians less than 1.5m in width shall be paved and medians greater than 1.5m may be paved or planted and mulched with approved organic mulch.

All medians and islands within 15.0m of an intersection and other median openings shall be paved. (12.0m for corner intersections.)

Medians greater than 4.0m in width shall have a 1.2m minimum paved or mulch area parallel to and abutting back of kerbs, with the balance of the median width, subject to Item 5.4.2, to be either paved or planted and maintained as a clear zone.

## Roundabouts

Roundabouts are to be landscaped with:

- A minimum of 2.0m wide paved / hardstand area abutting the kerb,
- With the balance of the roundabout to be planted with
  - Tree/s where roundabout size permits and
  - Low shrubs and groundcovers of waterwise plant species, to a maximum growth height of 750mm to permit vehicle drivers' sightlines, and
  - Mulched with organic mulch,
  - Other material surfaces and dividing or edging materials, as deemed suitable and approved by the Shire.
- Walls or other landscape structures shall not be permitted within roundabouts.
- Roundabouts are to be irrigated, where feasible, at least for the establishment period of plants, usually for at least 18 months and including 2 full summer seasons.

## RV Facilities including overnight stay / parking

Refer Policy C5 – Recreational Vehicle Use – Portion of Reserve 45518 – in Pinjarra.

## Shade Sails – Playgrounds and other spaces

While shade sails may be installed over existing play equipment and similar spaces, where funds allow this to be carried out, shade sails should not be seen as a long-term proposition. Instead, play spaces are to be planted with fast growing trees that will provide better shade, and a cooler environment. Planting with deciduous trees also enables winter warmth to be enjoyed. When trees have reached a stage of providing adequate shade, the shade sails will be removed.

Shade sails have a maintenance program which requires the sails to be removed during the winter season, with the poles remaining in-situ, to reduce wear during the harsher windier weather, and reinstalled for each summer season. The cost for this and also ongoing maintenance and service costs including repairs needs to be factored into their initial installation.

Shade sails are to be designed to provide maximum shade during the sunniest times of the day, and specified appropriately for long-life.

Refer to the Shire's Specification for Shade Sails 2021.



Directional/ wayfinding sign at Dwellingup Trails Precinct

## Signs

Signage identifying each public open space shall be provided by the Shire, or by the developer for new POS provided through the development process.

Sign/s are to be located on the boundary or otherwise as approved by the Shire, and shall be as specified in the Shire's Signage Manual.

Materials for signage shall be durable and hard-wearing, suitable for exposure to outdoor conditions, with low on-going maintenance costs.

The Shire will develop a Signage Strategy for consistent suites of signs specific to particular locations and sign typologies, including wayfinding, entry signs to parks and towns, and park signage, that will help define a style and sense of place and be key in a placemaking focus. The action will require liaison between staff of the various departments, external expertise, and liaison with neighbouring LGAs (City of Mandurah for Regional POS and the Shire's foreshore reserves and Launch Facilities) and other organisations including PHCC and DBCA (regarding regional POS including the Dwellingup Trail Precinct).

### **ACTION 5.12**

***Develop a Signage Strategy for the Shire with Signage Suites for specific localities and sign typologies including wayfinding, entry signs and park signage***

## Naming of POS

Policy W13 – Naming of Localities, Roads, Parks and Reserves and Buildings.

**Parks | Reserves | Community Precinct | Launch Facility | Foreshore | others such as 'Recreation Precinct' 'Town Square' and similar.**

- **Parks** – usually Local and Neighbourhood classification
- **Reserves** – use for District and therefore often sports related - Recreation Reserve / Sports Reserve as appropriate e.g. South Yunderup Sports Reserve.
- **Precinct** – as used by the Shire - those reserves with a hall or other use within the reserve – e.g. North Dandalup Community Precinct.
- **Foreshore** – public open space whether or not in a reserve (many in SoM are designated Road Reserve) along a river or estuary foreshore – e.g. Furnissdale Bridge Foreshore.
- **Launch Facility** – boat ramp areas as per Department of Transport protocols – e.g. Batavia Quays Launch Facility.
- **Restricted Reserve** – reserves that serve particular function that restricts their use to that function, and/or restricts public use/ access e.g. Coolup Emergency Services Reserve / Precinct.
- Components of POS – such as 'Oval' or 'Playground' – don't use them in the main name.
- Road names – used for Park names – preference is no to use the 'road' in the name e.g. 'Pelican Park' which is on Pelican Road – rather than naming it Pelican Road Park.
- Generic naming – such as 'Centenary Park' 'Memorial Park' and similar – these parks are to have more descriptive names that more accurately and easily identify their location and specific attributes.

## Dual naming

Indigenous naming and story – recognise traditional indigenous names, and provide explanation/ story on signage etc. with consultation with the local indigenous community. E.g. North Pinjarra/ Carcoola.

### **ACTION 5.13**

***Review Shire's Asset Naming Conventions specifically for POS for a consistent approach and easy identification of places by the public and visitors and update Policy to suit***

***Undertake dual naming consultation and develop as part of Naming Conventions***

***Undertake this prior to / in conjunction with the Signage Strategy***

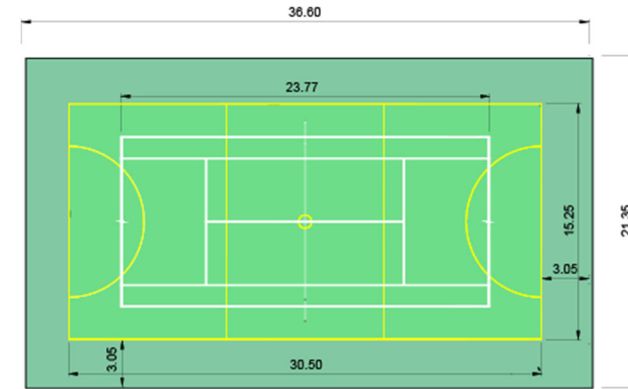
## Sports facilities - Informal including Multi-Courts and Exercise Equipment

POS significantly contributes to spaces for sports, in addition to organised or 'formal' sports in dedicated sports ovals, many parks provide for informal sporting activities such as ball sports and exercise, with outdoor exercise equipment installed.

As existing single-use courts are upgraded, and in order to better make use of the facilities for a wider range of users, courts are to be upgraded and marked as multi-Courts. This facilitates a number of informally played sports combined, such as basketball and netball, with both goal posts, along with other ball games, including tennis and volleyball, and hit-up ball games, particularly where a wall may be incorporated to one end or side of the court.

Half-courts are also provided in POS to better utilise space.

\*Refer the Shire's Active Sports and Recreation Strategy for more information on active sports grounds, ovals and similar that provide for formalised sports (currently draft 2022).



Multi-court with tennis and basketball court markings – DSR

### **ACTION 5.14**

*Develop the Shire's  
Active Sports and Recreation Strategy*

### **ACTION 5.15**

*Map the Shire's informal sports to show distribution and  
undertake Gap Analysis and Future plan for new facilities,  
renewals and upgrades*



Exercise equipment Cantwell Park Pinjarra

## Structures

The following Guidelines apply to Structures, including those installed in POS and streetscapes:

1. Walls, letter boxes, seats and other structures are to be installed within the private property boundary.
2. All retaining structures greater than 500mm high shall require a Building Licence and Structural Certification by an accredited engineer.
3. All free-standing structures greater than 1000mm high shall require a building licence and structural certification by an accredited engineer.
4. Preference shall be given to the use of materials including:
  - o Steel, natural stone, concrete and/or masonry products for structural support and
  - o For boardwalks, decking, seating, gazebos, arbours and other similar elements from plantation timber or recycled plastic/ HDPE.
5. Clearance height of 2.4m minimum shall be required between finished ground/paving surface and any part of an overhead structure such as gazebo, arbour, vehicle or pedestrian underpass, etc.
6. Structures that provide pedestrian or vehicle movement through them shall have a 3000mm minimum clearance between each support and the closest edge of the access way, such as gazebo, arbour, vehicle or pedestrian underpass, etc.
7. For designated shared use paths and cycleways, a lateral clearance of 1.0m (500mm minimum) shall be required to posts or other supports for structures and other objects – refer AP 11.14/99, Bicycles.
8. Roofed structures shall have hard surfacing on the ground extending a minimum of 300mm beyond all parts of the roof line.
9. Internal spaces of structures to be used by the public shall be paved with hardstand material as outlined in the Guidelines on that topic.
10. Stairs/ steps within built structures must comply with Australian Standards; and
11. Stairs/ steps in POS shall comply with the following requirements,
  - o Riser dimension range: 115mm minimum to 190mm ideally, or up to 220mm maximum;
  - o Tread dimension range: 280mm minimum to 500mm maximum for stairs, or 700mm or longer in landscaped areas, to allow for 2 footsteps a 'tread' to shallow grade flights;
  - o Steps and Stairs' flights and landings must meet Australian Standards requirements, including for:
  - o Handrails to be provided to at least one side of any steps.
12. Ramps shall be installed to Australian Standards, including grading, widths, landings, handrail and tactile indicator requirements.



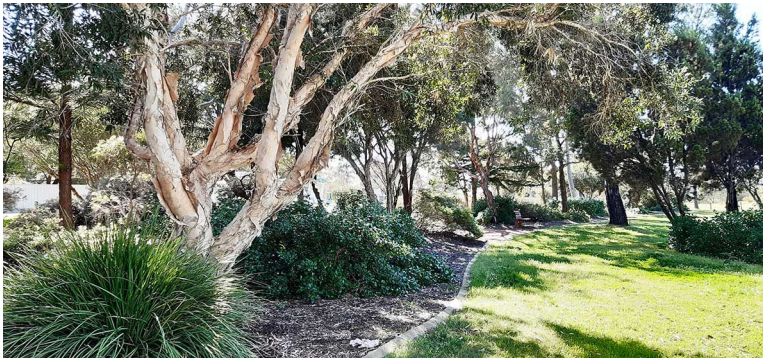
## Trees

The intent of these Guidelines is to ensure that trees are chosen to reflect the local character and conditions while providing attractive streetscapes and public amenity in POS. Trees provide shade, improved micro-climate and landscape amenity. These Guidelines assist with the aim for trees not to interfere with lighting, paving or other public infrastructure, and to meet access and sightline requirements for drivers and pedestrians in road reserves, including those abutting POS.

1. As part of verge landscaping, Developers are to incorporate street tree planting, and where the development is of a size that requires it, to provide the information in the form of a Street Tree Masterplan.
2. Species of tree/s to be approved by the Shire. Local native tree species are preferred that suit the local conditions including soil types and reflect local character; however other species will also be considered – refer to the Shire's Street Tree website information for a list of street trees currently planted.
3. Developer to supply and plant approved tree species on an alignment and spacing approved by the Shire and as detailed in approved Landscape Plan/s and/or Street Tree Masterplan.
4. Alignment for street trees is generally 2.7m in from the property boundary in accordance with the corridor that remains free from service utilities within verges. This is to be confirmed with the Shire.
5. Trees shall be planted at 45 litre size minimum, up to 100 litre size where advised as the preferred, with forestry tube size stock to 5 litre size also being suitable for mass plantings. In some cases, 200 litre trees may be approved, only where watering will be adequate to establish them.
6. Trees shall be fertilised, mulched, staked and tied to the Shire's Specifications.
7. Trees shall be planted within mass planted and/or mulched garden areas wherever possible.
8. Trees planted in lawn/ grass shall have the following, to prevent mowing and or edge-trimming damage to the tree trunk:
  - o 1 metre minimum diameter circle around them of organic mulch, and
  - o Lawn edge of either steel edging or flush concrete kerb, as approved by the Shire. A cut lawn edge may be approved in some locations.
9. Trees shall not be planted within 3.5m of a cross-over, power pole, sign, fire hydrant, public service inspection pit, overhead wires leading into a property, bus stop or similar structural element in the road reserve.
10. Trees shall be planted to meet the following spacing and offset requirements:
  - o In roads controlled by MRWA trees shall comply with MRWA standards and guidelines.
  - o 6.0m or more from a street light.
  - o 5.0m or more from a park light.
  - o If within 2.0m (dependant on species selected) of paving or a carpark tree bay's kerb, an approved root control barrier is required to be installed.
  - o 2.0m or more from the driving edge or face of a street kerb, except in carpark tree bays with kerbs.
  - o 3.0m spacing or further apart where located within grass areas to allow ride-on mowing maintenance between the trees.
  - o Street trees are generally planted with one tree per property frontage or verge, or more for larger and side verges; usually no closer than 6m apart, dependent on tree species.
  - o For corner properties, trees shall not be permitted within 12.0m of the intersecting kerbs.



Lucy Hunter Park South Yunderup



## Verges

Where residents' landscape and maintain the verge between road kerb and private property, adjacent to their own property, this adds greatly to the overall quality of the Shire's streetscapes.

For Verge treatments, refer to the separate Shire of Murray Verge Guidelines and website information. Related information re crossovers and street trees is also available.



Verge landscape – Pinjarra Telstra building

## Waste infrastructure including Bins

### Basic Level provision

Preference is for the use of bins at designated locations approved by the Shire, allowing for emptying without manual lifting.

- Mobile green bin (MGB) recycled plastic 240 litres
- Fixed in place by a pole
- Signage may also be installed to suit
- Poles, signage and dog waste bags may also be installed where appropriate, including popular dog walking and exercise off-leash areas. sites.

### Higher level provision

- Wheelie bin enclosures (WBE), either single or double may also be installed, to provide a more attractive surround to the bin/s.
- Installed on a concrete pad
- To be approved by the Shire's Waste Coordinator, and include required key lock.



Double WBE at Dwellingup Trail Precinct

## Waterways and Launch Facilities for Canoes, Kayaks and similar

The Shire's location, with the Peel-Harvey Estuary and the three rivers, Murray, Serpentine and Dandalup, along with the man-made canals, provides significant recreational sites on the waterways such as boat launch facilities, jetties and canoe/kayak launches.

### **ACTION 5.16**

*Map the Shire's waterway's facilities including launch facilities to show distribution and undertake Gap Analysis and Future Plan for new facilities, renewals and upgrades*

Liaise with neighbouring City of Mandurah for the Regional Reserves, for the Shire's foreshore reserves regarding trails, facilities and signage, for continuity and consistency.



Wharf Cove jetties and Sandy Cove in foreground, South Yunderup



## 6 LOCALITIES - POS by Shire Locality

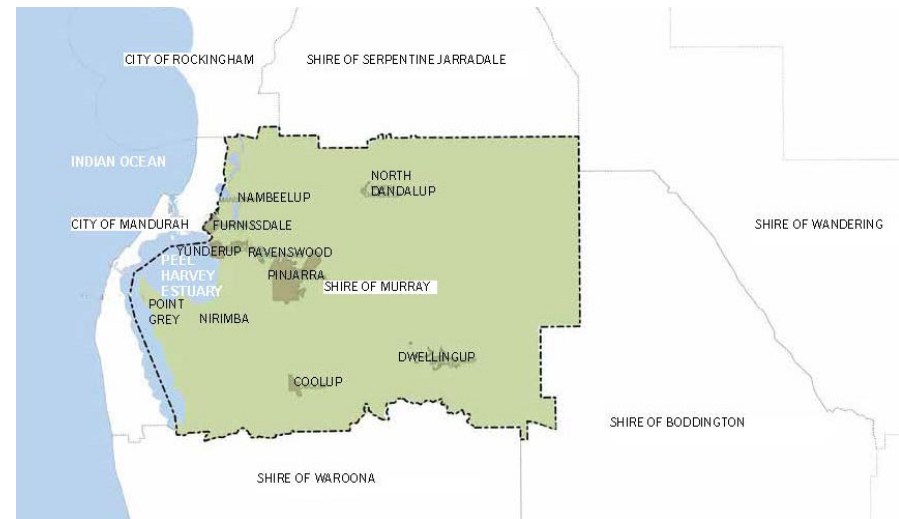
The Shire of Murray includes the following localities, details of public open space (POS) for each locality are provided in this section of the POS Strategy:

1. Pinjarra, including North Pinjarra/ Carcoola
2. Ravenswood
3. Ravenswood North
4. Furnissdale
5. Yunderup – North Yunderup/ South Yunderup
6. Nirimba/ West Pinjarra
7. Point Grey
8. Rural South including Coolup and Dwellingup
9. Rural North including North Dandalup

The Shire of Murray has thousands of hectares of parks and reserves and conservation areas, as well as streetscapes that add to the public open space assets of its towns and suburbs.

Catchment hierarchy (including size and distance to open space) has four levels of POS defined, which inform their strategic planning:

- Local Open Space
- Neighbourhood Open Space
- District Open Space
- Regional Open Space.



As part of an ongoing project, the Shire's POS assets are being mapped in Intramaps, recorded in the Asset Master system and are being assessed. Every POS has been classified by their hierarchy and their dominant function/s, which together are key in strategically determining priorities and expected level of development and provision of facilities. Current and proposed future facilities are being reviewed, with planning requirements flagged (such as Masterplan preparation) in order to holistically plan for the Shire's POS to meet the strategic vision and objectives.

The existing POS assets for each Locality are summarised in the following pages.

Refer to the Appendices for POS Provision for each locality including more detailed data.

**ACTION 6.1**  
**Map POS existing in**  
**Intramaps | Asset Master | and as Locality Diagrams**

## 1. PINJARRA

### Population | Forecast Population

2016	5274
2021	5571 estimated
2028	8,626
2033	9,950

### Regional POS

#### Cantwell Park/ Murray River (Town) Square - Recreation

Pinjarra | Henry St | Sanctuary Drive Foreshores – Recreation

Edenvale Heritage Precinct – Recreation (& heritage)

Foreshore Park, Murray River – Recreation

### District POS

Murray Aquatic and Leisure Centre (MALC) | Pinjarra Cemetery |

Sir Ross McLarty Sports Precinct - Sport | Pinjarra Golf Course - Sport

### Neighbourhood POS

Battle of Pinjarra Memorial Park | Binjareb Park | Gentleman Park | Hotham Valley Railway | Humphrey Park | Lions Park (Community Garden) | Morni Kep Park | North Pinjarra Central Park | North Pinjarra Recreation Precinct | Pinjarra Railway Precinct | Redcliffe Oval Sporting Precinct

### Local POS

Cornish Way Park | Grove Park | Ludlow Loop Park | Meadow Lane Park |

North Pinjarra Reserve East | Osborne Place Park | Pinjarra Meadows |

River Drive Foreshore | Rotaract Park | Rotary Park | Teague St Park

## Pinjarra

Pinjarra is the central and main town in the Shire of Murray.

Pinjarra has a population in 2021 of approximately 5500, with 1200 people living in North Pinjarra, otherwise known as Carcoola, the place of many trees. The Pinjarra Town Centre Growth Strategy (2012) provides a guiding framework for future urban design to address issues affecting Pinjarra today and into the future, for an expected population by 2033 of almost 10,000 people.

Population growth will drive the need for expansion of the town, with urban growth to occur predominantly to its north. Outline Development Plans (ODP) have been prepared. The Murray River Country Estate to the north of the Pinjarra Golf Course and bordering Pinjarra Road and the Murray River has plans for the creation of approximately 2,500 residential lots and a Neighbourhood village centre. Residential expansion is also proposed for land immediately north of town adjoining Paterson Road and extending to the Murray River floodplain. Longer term urban expansion potential exists for land south west of Pinjarra, out towards the historic Blythewood cottage, with further investigation of this area required. Small subdivisions of larger lots and small rural holdings are currently underway within the town's suburban areas.



Town Square shelter, Exchange Hotel beyond



## Pinjarra's District Sports facilities

Within the Peel region, major sporting facilities are predominantly located in Mandurah, 17 kilometres to the west. The Murray Leisure Centre provides a central high-level facility including gym and pool.

To the north-west centre of town, Sir Ross McLarty Sporting Precinct is to be developed into a District sports facility that will service the broader Shire's district localities' sporting needs, with a 2021 Masterplan prepared. Development of this reserve to District level will provide the Shire with facilities suitable for visiting teams from within the Perth-Peel region for a variety of sports, with improved recreational facilities also to be developed.

The Pinjarra Golf Course provides the other main sports venue in Pinjarra, with local and neighbourhood parks providing sports facilities as appropriate for their classification including ovals, kickabouts and other specific facilities. Refer the data sheets.



Sir Ross McLarty Oval, Pinjarra

## Pinjarra's Regional POS

Masterplans have been developed for a number of Pinjarra's POS and staged works have followed.

Cantwell Park has had hundreds of thousands of dollars spent on upgrades since 2019, including the development of the Pinjarra Town Square / Murray River Square POS to connect the town centre to Cantwell Park on the Murray River. Future upgrades are planned for the picnic and playground area with capital works budgets allocated for upgrades during 2022. The first stage of the 'Binjareb Flora Trail' has been constructed in 2021 adjacent to the Square, with local flora planted and local materials used in the landscape, with future connections planned to the south along the river, and interpretive signage to be installed.

Streetscape connections to the town's central parks will be developed, including Cantwell Park, the Edenvale Heritage Precinct, Glebe Land, and Memorial Park with the war memorial, for a river - heritage circuit.

Development of the Pinjarra Exchange Hotel on George St backing onto Cantwell Park will greatly benefit the town-park-river connectedness. The site is to receive a \$4.1 million redevelopment to turn the landmark site into a hospitality venue with flexible spaces for events, planned for completion by the end of 2023. The interface of this improved space with the new Murray River Square, Cantwell Park and the George St streetscape will redefine the town's connected public open spaces.

Planning for facilities at an appropriate level for the town's regional POS will be undertaken as key components of these upcoming developments, including parking provision, path connections, infrastructure, and to improve the park's street presence by improving the fencing so that it is permeable rather than visually obstructive, to invite people from the street into the parks.

A Masterplan and a more recent Place and Activation Plan has been prepared for the Edenvale Heritage Precinct, incorporating the Edenvale historic homestead and related buildings, tearooms, visitor point, museum, arts and crafts, as well as the adjacent historic Anglican church, rose gardens and riverside 'Glebe Land' park or 'Memorial Park', with olive grove and ANZAC memorial; with an aim to further develop these sites, improving place and activities. The Masterplan requires a review to better plan for the place activation recommendations and to progress planning and upgrade of this iconic POS.

Similarly, a draft Masterplan for the Pinjarra Heritage Railway Precinct east of Pinjarra Williams Rd has been prepared in 2021 to progress improvements to the railway area. It incorporates the rail land and POS including existing community garden; in order to create a unique shared place with cultural and heritage significance for the town community and visitors.

Streetscape improvements are also necessary – refer the earlier Streetscapes topic in this Strategy for more information.

Interconnectedness of the Regional Murray River Foreshore POS needs to be developed, with a number of breaks in the Shire's reserve holdings, where private land extends down to the river foreshore in a number of locations, a remnant of the historic planning regime. This results in a disconnected foreshore POS and the inability to provide continuous treatment to the foreshore and movement network, including shared paths and facilities. Ideally this would be rectified for better continuity and accessible facilities for all of the community.



Detail of shelter/ stage at Cantwell Park

## Pinjarra's Local and Neighbourhood POS

Although well provided for, a number of Pinjarra's lesser parks require upgrade, with poor to average landscape qualities, play equipment that offers low play value, lack of shade and generally lacking by community expectations. Upgrades for Local parks will occur as maintenance and operational budgets permit.

Neighbourhood POS will have Masterplans prepared to inform the planning for these parks into the future, including the North Pinjarra Recreation Precinct and others.

A Masterplan is being developed for the Pinjarra Cemetery and one will also be required for the Pinjarra Memorial Park and Binjareb Park with the Battle of Pinjarra/ Massacre memorial, with consultation with the local Binjareb Noongar people and other stakeholders. This will enable improvements to these sites, particularly to include recognition of indigenous heritage and stories. The Binjareb Park is a 22-hectare nature sanctuary managed by local traditional owners, the park is an Aboriginal cultural and nature reserve, where people can learn about the bush, local Dreamtime stories, food and customs including bush tucker. The notorious 1834 massacre where many aboriginal people were killed by soldiers, police and settlers, led by the Governor is recognised by a stone and paved memorial with artworks near the river, but the area requires further upgrade particularly accessibility and park amenities.

Refer to the Classification Framework in this POS Strategy document for facilities expected for each level of POS, and to the Spreadsheet for a listing of planned strategy and works.

Conservation and nature areas include foreshore reserves and others such as Morni Kep Park, central in the town adjacent to Pinjarra Rd, with remnant trees and walk paths including boardwalk through Melaleuca (paperbark) trees.

For all Pinjarra's POS, including streetscapes, a Sense of Place should be evident, to maintain a rural feel, the tree canopy, including the mature trees, for a sense of a country town that has historic and environmental uniqueness although not far from the state's capital city Perth.



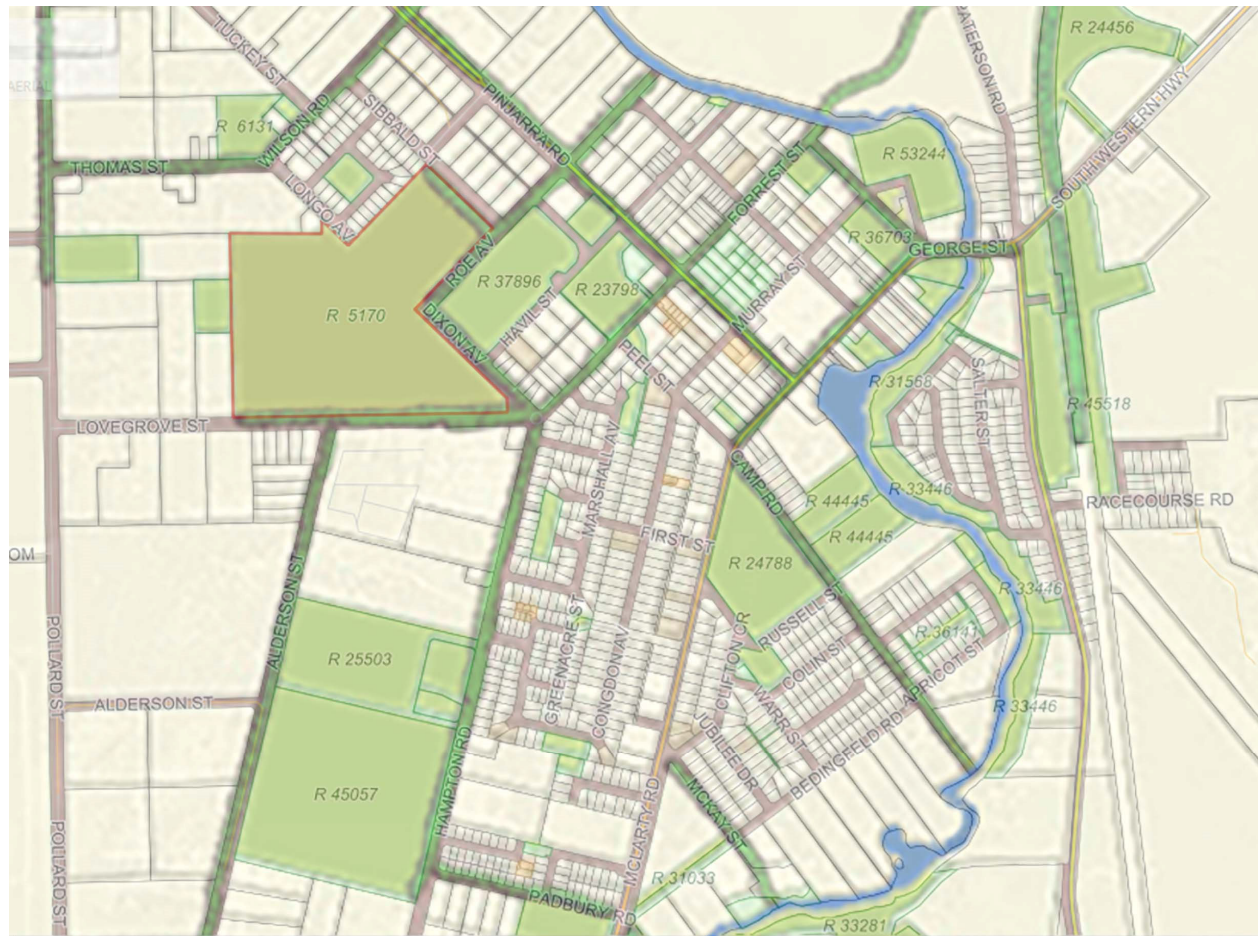
Pinjarra Massacre Memorial

Town Square/ Cantwell Park with pedestrian suspension bridge over the Murray River



Cantwell Park – Town Square steps





Pinjarra POS Locality Map (partial)

## 2. RAVENSWOOD

### Population | Forecast Population

2011	2113
2016	2176
2031	4084 projected

### Regional POS

Nil – Future development of the Peninsular reserve R26526 (refer District POS)

### District POS

Ravenswood Foreshore Recreation Precinct R26526

### Neighbourhood POS

Gowman Park | Jones Lane Park | Moondyne Ramble Park |

### Local POS

Frank Cross Park | George Brook Reserve | Montgomery Park | Rodoreda Park

## Ravenswood

Situated 7.2 km west of Pinjarra and 10 km east of Mandurah, Ravenswood is situated south of Old Mandurah Rd and east of Pinjarra Rd, on the Murray River. Named by one of the settlers who arrived with Thomas Peel on the Gilmore in 1829, Ravenswood was gazetted in 1970 as a town following the area being subdivided in the 1960s.

Ravenswood is situated on both sides of the Murray River; however, the majority of the population is to the north. New residential subdivisions are underway north of Nancarrow Way through to Old Mandurah Road. The population is projected to double over the next five years.

Murray River parks include George Brook Reserve on the northern banks of the river accessed from Eaglehawk Drive, the local linear Rodoreda Park between the river and residential properties on Rodoreda Crescent, the neighbourhood Murray River Bend Foreshore, and the recreational precinct Reserve 26526 on the peninsular formed by the bend in the river to the south side of Ravenswood, currently a District POS that may in future be developed to regional level. The foreshore reserves require strategic planning to better integrate and protect them, with Waterways Strategies and/or Riverbanks Guidelines to be developed and Masterplans prepared.



Moondyne Ramble Park Ravenswood



A Masterplan is being developed for the peninsular POS, following community consultation during 2020 to 2021, with the study area forming part of a Regional Open Space Reserve under the State's Peel Region Scheme. The larger part of the study area is private land, abutting the existing District POS R26526, the Ravenswood Foreshore Recreation Precinct, which currently provides for public recreation on the river's edge, including walking, picnics and barbecues, and could better provide for waterways recreation, including canoe/kayaking and other functions, with expansion.

Development of residential subdivisions has incorporated the development of new POS, including local Montgomery Park and the expansion of the neighbourhood Gowman Park, and others are either recently completed, currently under construction or being planned for in Ravenswood Waters and Ravenswood Green.

Upgrade plans for the area's older existing local and neighbourhood parks are progressively being prepared to inform the planning for these parks into the future. Jones Lane Park is currently being considered as a potential site for the proposed Ravenswood Community Centre, with good access from both Nancarrow Way and Jolly Rambler Boulevard and existing facilities including a small playground, kickabout and landscaping.



Playground at Jones Lane Park



Ravenswood Peninsular – Masterplan study area

### 3. RAVENSWOOD NORTH

Refer 2. Ravenswood for existing POS

Regional – nil

District – nil

Neighbourhood – nil

Local - nil

## Ravenswood North

The Shire of Murray's draft Local Planning Strategy earmarks land north of Old Mandurah Road and both sides of Paterson Road as having Urban Development potential subject to formulation of a District Structure plan and preparation of a District Water Management Strategy. Department of Water has prepared a District Drainage plan over the precinct encompassing the Winter Brook catchment and carried out groundwater modelling to assist in the formulation of more detailed water management planning and stormwater flow paths.

A major Regional recreation and sports facility complex has previously been proposed immediately to the east of the Kwinana Freeway / Pinjarra Road junction, but yet to have any planning progressed or funding attributed. A Peel Region Sport and Recreation Facilities plan report prepared in September 2010 that contained recommendations under a number of regional focus areas has not yet been finalised or endorsed by key stakeholders.

If new residential subdivision was to occur north of Old Mandurah Rd, POS would be developed as a necessary part of the development/s to deliver new public open space, potentially of the various classifications from Local through to Regional, depending on population catchment.

## 4. FURNISSDALE / BARRAGUP & NORTH YUNDERUP

### Population | Forecast Population (total for Furnissdale & North Yunderup)

2011	1027
2021	1942 [1077 Furnissdale / 865 North Yunderup]
2026	3600
2031	4000+ [2400 Furnissdale + 1600 North Yunderup]

### Regional POS

The islands and wetlands of North Yunderup link to the Coodanup Foreshore Reserve in City of Mandurah, to form part of the north east foreshore of the regional Peel-Harvey Estuary and wetlands Foreshore R23015 + R32836 + R20215 etc. - Nature and Recreation

#### Tonkin Drive Foreshore

### District POS

Barragup Swamp Conservation Reserve R35077 – Nature

### Neighbourhood POS (NOS)

Kingfisher Park - Culeenup Rd Park R21019 - Recreation

Furnissdale Bridge Foreshore – Recreation / Nature

Jannali Reserve with Swamp R35077 – Nature

North Yunderup Foreshore & Launch Facility - Recreation / Nature

York Park – Recreation & Sport R25090+R24091 combined

[Potential for future NOS in subdivisions immediately north of existing residential area]

### Local POS

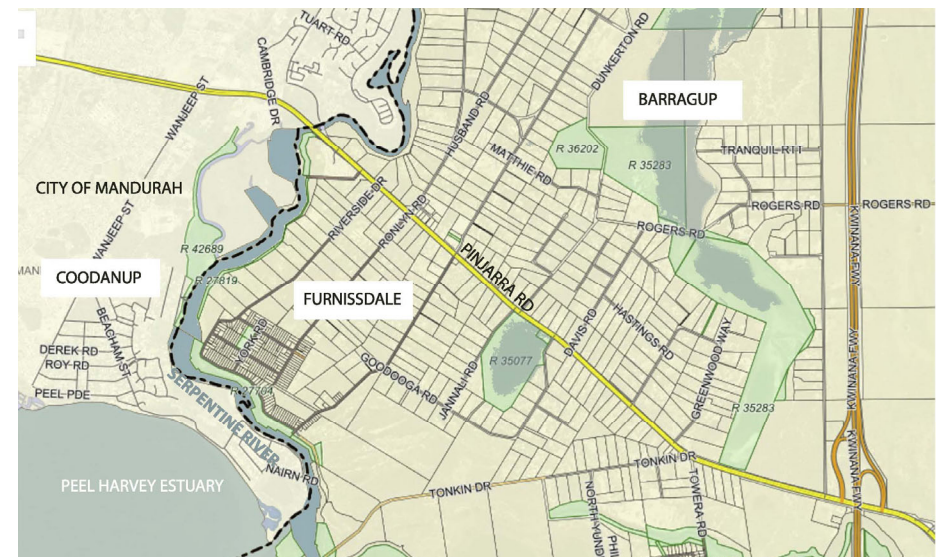
Correas Street Park | Tonkin Drive Park

Potential for future Local Parks as part of future subdivision

## Furnissdale & Barragup

The most western locality of the Shire, Furnissdale is 15 kilometres west of Pinjarra and only 5 kilometres east of Mandurah, situated south of Pinjarra Rd, and north east of the Serpentine River. The river forms Furnissdale's boundary with Coodanup, the most eastern suburb of City of Mandurah. To the north of Pinjarra Rd and west of the Kwinana Freeway lies Barragup, bounded to the west by the Serpentine River and Goegrup Lake and the 'Big Lakes' system down to Black Lake.

Population growth is expected, with an Outline Development Plan prepared for new residential land in the western part of Furnissdale for an ultimate population of just over 2,400 residents. Development Applications have been made for residential subdivision of land along Riverside Drive north of the existing, with contributions to be made to the existing POS in the area, notably York Park. Over time, an additional Neighbourhood park will need to be developed to meet the 10% POS development requirement.





There is a need to fully develop the Neighbourhood and District public open space (POS) to meet the needs of the Furnissdale community. A Masterplan is being developed for the existing York Park which has play equipment, picnic and recreation spaces, three tennis courts, kickabout with soccer goals, a small-scale gravel BMX track and basketball court. Improvements required include parking provision, and improved facilities and infrastructure.

Establishment of a bore is required that will not only irrigate York Park but also extend south to irrigate pockets along the Furnissdale Foreshore Reserve along Riverside Drive. This needs to fit into the Shire's Operating Strategy, and as with all POS in the Shire, hydrozoning will apply.

This will enable the informal sports facilities at York Park to be more appealing and useable, aided by proposed future upgrades to its facilities.

The existing Furnissdale Bridge Foreshore neighbourhood level POS on the north eastern shores of the Serpentine River predominantly services the Mandurah Caravan & Tourist Park residents to the north western corner of Furnissdale.

The POS strategy is to develop complementary spaces for the community, with the existing central play and recreational York Park upgraded and riverside POS complimented with a future additional District POS centrally located on good quality land, and also local/ neighbourhood POS to provide access for the wider catchment.

As land is developed in the future, public access to the Serpentine River via riverside POS development should occur, for equitable access to the waterways for recreation. The existing boat ramp at Furnissdale Rd is very busy, particularly during summer, as are the POS facilities.

A Masterplan is required for the river foreshore to set a plan for future development and facilities.

In addition to the Serpentine River foreshore reserves, nature spaces are provided for with Barragup Swamp Conservation Reserve. Refer to the Shire's Biodiversity Strategy for more information.



Foreshore walk path at Furnissdale, on the Serpentine River



Play sandpit York Park, York Rd, Furnissdale



York Park - shade sails installed 2021 to supplement existing tree shade



York Park's court and kickabout oval with soccer and AFL goals



York Park's tennis courts, Furnissdale



## North Yunderup

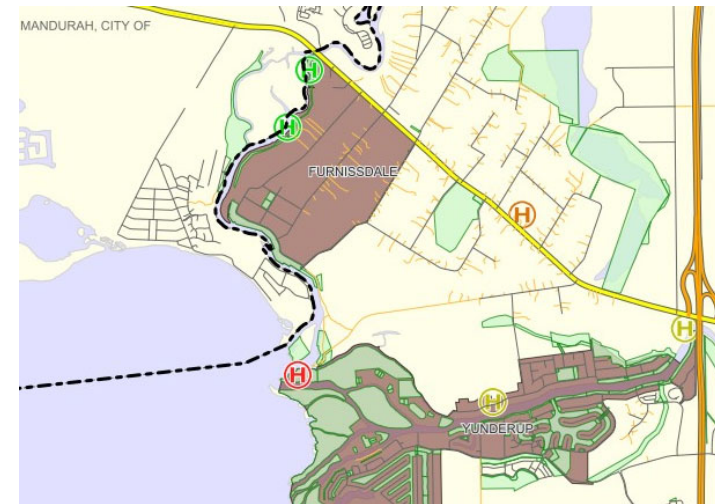
14 km west of Pinjarra by road and 8.7 km east of Mandurah, North Yunderup is situated on the north side of the Murray River delta mouth at the Peel Harvey Estuary, and bounds Furnissdale to its north at Tonkin Drive.

North Yunderup, covering 6.2 square kilometres, has a population of 865 people, all living in separate dwellings. The population of North Yunderup is predicted to almost double to 1600 by 2031, with existing residential development stretched along the river foreshore expected to expand back from the river north towards Furnissdale.

A Masterplan was prepared in 2013 for Kingfisher Park, which is the central Neighbourhood POS for North Yunderup, supplemented by the facilities provided at the foreshore reserves. However, with most of the earlier planned-for elements having been completed, it is time to review the outcome and prepare a new Masterplan for Kingfisher Park to better integrate the facilities and to cater for current expectations and future population. Irrigation with hydrozoning and ecozoning of Kingfisher Park would greatly improve the amenity of the park to increase community use, along with additional facilities. The Masterplan is to also incorporate Culeenup Rd Park immediately to its south, connecting Kingfisher Park with the Murray River foreshore.

The North Yunderup wetlands and estuary foreshore provide nature trails with interpretive signage regarding their ecological significance and biodiversity values.

The foreshore reserves require strategic planning to better integrate and protect them, with Waterways Strategies and/or Riverbanks Guidelines to be developed and Masterplans prepared.



Kingfisher Park North Yunderup

## 5. SOUTH YUNDERUP

### Population | Forecast Population

2016	3227
2021	4640*
2051	14 663*

### Regional POS

Murray River Foreshore – including Coopers Mill - Nature/ Recreation  
Austin Bay Nature Reserve - Nature

### District POS

Austin Lakes District POS (proposed future)  
Yunderup Sports and Recreation Precinct - South Yunderup Oval – Sport

### Neighbourhood POS

Adventurescape Park | Banksia Terrace East/ West Foreshores | Batavia Quays Launch  
Facility | Yunderup Centenary Park | Lucy Hunter Park | Munji Park |  
Pelican Park / Willow Gardens Foreshore | Rivergum Esplanade Foreshore |  
Sandy Cove Park / Wharf Cove Launch Facility |  
Tatham Rd Foreshore | Wellya Foreshore

### Local POS

Anderson Park | Countess Circuit Park | Dutton Gardens Park | Warma Way Foreshore

POS – Proposed – new POS as part of Austin Lakes subdivision, Local, Neighbourhood and a District sports oval

\*forecast.id.com.au

## South Yunderup

10 km west of Pinjarra and 15 km east of Mandurah, South Yunderup is situated on the Murray River's delta river mouth at the Peel Harvey Estuary, to the south of the river.

Immediately south of South Yunderup's developed area is the extensive Austin Bay Nature Reserve on the eastern shores of the Peel Inlet.

South Yunderup has a population of 2235 in 2021 with the population predicted to grow as residential land is developed from small land holdings, and predominantly from the large staged Austin Lakes development immediately west of the Forest Highway and south off South Yunderup Rd at Inlet Boulevard.

The older part of South Yunderup is to its north and west, on the river and estuary, and incorporates the early canal developments south of the river and more recent ones to the west near the estuary.

New residential subdivision of Austin Lakes in South Yunderup has included the development of a sizeable farmyard themed playground at Adventurescape Park connecting to the lakeside park including walkways and picnic areas with shelters. More recent development stages have incorporated new local and neighbourhood POS, including a range of facilities and landscapes.

New POS will continue to be developed as part of future staged development including neighbourhood parks and a District level sports ground to the south east end of Austin Lakes, to complement the existing Yunderup Sports and Recreation Precinct including South Yunderup Oval.

A Masterplan has been developed for the South Yunderup Oval, a multi-purpose sporting oval (including winter soccer) with designated off-leash dog exercise area. New changerooms/ club room / storage facilities are being built in 2021-2022.

South Yunderup's older POS, having been developed as part of the 1970s-80s canal developments, now requires upgrade, with infrastructure reaching the end of its useful life, and generally lacking by community expectations. Landscape plans for the area's smaller local and neighbourhood parks will be prepared to inform the planning for these parks into the future, with proposed upgrades outlined.



Following community consultation and preparation of a Masterplan in 2021, Sandy Cove Park has undergone an upgrade project with park, picnic and play facilities upgraded, resulting in a revitalised the space. It is to be followed by jetty works to the adjacent Wharf Cove Launch Facility in 2022.

Similar is anticipated for other aged parks, budget allocation dependent, with masterplans, landscape plans and projects to be developed and delivered over time.



Sandy Cove Park with newly installed facilities



Foreshore near Banksia Terrace South Yunderup



## 6. NIRIMBA/ WEST PINJARRA

### Population | Forecast Population

2011 X

2021 X

2026 X

2031 X

### Regional POS

nil

### District POS

nil

### Neighbourhood POS

nil

### Local POS

nil

POS – Proposed – any new POS as part of future subdivisions/ development of land

## Nirimba/ West Pinjarra

## 7. POINT GREY

### Population | Forecast Population

2011

2021 X

2026 X

2031 X

### Regional POS

nil

### District POS

nil

### Neighbourhood POS

nil

### Local POS

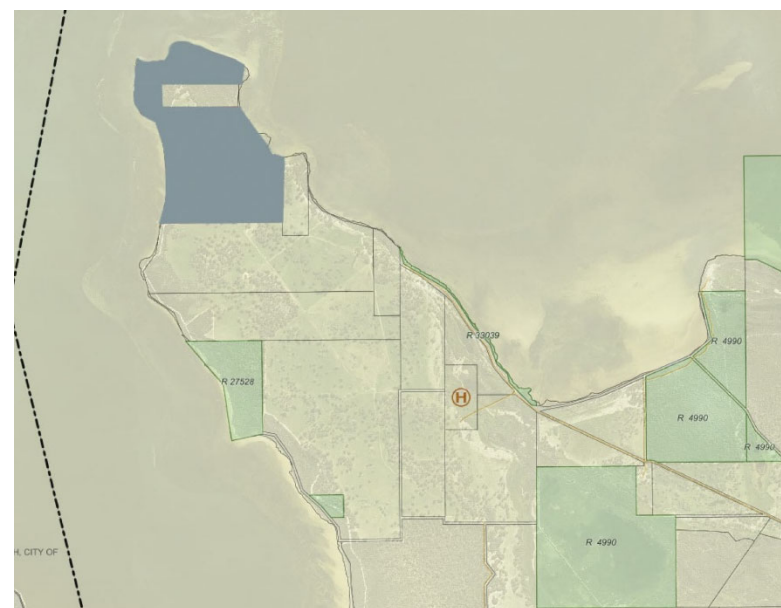
nil



## Point Grey

Approved Town Planning Scheme Amendment No.314 - Point Grey - to the Shire of Murray Town Planning Scheme No. 4, was approved on 5 November 2021. The Amendment removes discretion for the approval of a marina at Point Grey, together with associated changes. The previously proposed marina was a contentious development with would have significantly and irrevocably changed the existing foreshore edge of Point Grey situated on the shores of the Peel Harvey Estuary.

There is a need for public open space and conservation reserves for the foreshore, and strategic planning for POS regardless of future development proposals.





## 8. RURAL SOUTH – COOLUP & DWELLINGUP

### COOLUP

#### Population | Forecast Population

2011	362
2022	1800 in Rural South total*
2051	2085*

#### Regional POS

Murray Equestrian Centre [multiple reserves of 41.2ha total] - Sport

#### District POS

nil

#### Neighbourhood POS

Murray Street Reserve 1.2ha - Recreation

#### Local POS

Don Spark Reserve 0.19ha - Recreation | McLarty St 05ha - Nature

Total POS 43.1 hectares

\*forecast.id.com.au/murray-shire

## Rural South

The Rural South locality encompasses the southern half of the Shire, including land west and east of the Forrest Highway and the town sites of Coolup and Dwellingup. The eastern area is predominantly State Forest land that is subject to a State Agreement with Alcoa for mining extraction and processing of bauxite. The Pinjarra Alumina refinery is located in Oakley, with a large rural buffer surrounding.

Projections indicate fairly modest growth throughout the Rural South area which will most likely be associated with further development in and around the town sites.

## Coolup

Coolup is situated between the Darling Scarp in the east and the Peel / Harvey Estuary 17 kilometres to the west. Part of the Shire's Rural South Zone which has an overall population of approximately 1700, almost half live in Coolup.

A Masterplan has been developed for Don Sparks Reserve and the Murray Regional Equestrian Centre both of which have had staged development as funds have become available and will continue to have capital works funds allocated to complete the plans.

Coolup's POS requires review, with some upgrades required where infrastructure is reaching the end of its useful life. Upgrade plans for the area's local and neighbourhood parks will be prepared to inform the planning for these parks into the future.



Murray River Equestrian Centre Masterplan (partial)



Don Spark Reserve Coolup

## DWELLINGUP

### Population | Forecast Population

2011	383
2021	383* refer Coolup for Rural South totals
2031	Refer Dwellingup Futures Roadmap

### Regional POS

State Forest | Dwellingup Reserve with Trail Centre – 11.4ha

### District POS

Nil – [Regional POS Dwellingup Reserve provides sporting facilities]

### Neighbourhood POS

Forrest Street Park – R32989 - 2.28ha Recreation

### Local POS

Begonia R44749 1.07ha | Memorial Park 0.2ha (R22533 & Lot 38 McLarty)

POS – Proposed – new POS as part of subdivisions

## Rural South - Dwellingup

Dwellingup is situated in the Shire's Rural South area, 105 kilometres south east of Perth, 38 kilometres east of Mandurah and 24 kilometres east of Pinjarra in the Darling Scarp forest environment.

Since ancient times, the area has been home to the Bindjareb People of the Noongar Nation and is recognised as a sacred, spiritual dreaming place. The origins of the name Dwellingup come from an Aboriginal word meaning "place of nearby water". Over the last century many people have been drawn to the area to support industries such as timber and mining. In 1918 Dwellingup became part of the State Forest and consequently the town became a centre for forest management and research.

It has long been popular as a retreat and bush/ forest destination close to Perth. It has increasingly become a recreation and tourism town. The Department of Biodiversity Conservation and Attractions (DBCA) manages the State Forest land that is available for public recreation including camping and outdoor activities, with its extensive Tuart, Jarrah and Marri forests.

Its regional Trail Centre and events grounds have been upgraded over recent years, with \$4.5 million spent, providing beautifully designed nature and adventure-focused tourism resources dedicated to outdoor pursuits including trails, mountain biking and also event spaces. The Shire and DBCA secured an additional \$8.7million of funding for the Dwellingup Adventure Trails project to build additional trails and supporting infrastructure. The Bibbulman and Mundi Biddi walk and cycle trails meet in the Dwellingup Reserve.

There is also a sizeable playground, pump track, skate park and sports oval with facilities, surrounded by mature trees and well landscaped picnic, barbecue and recreational areas, serviced by car parks, and providing sizeable event spaces. The adjoining park to the north along Banksiadale Rd provides further public open space for recreation near the historic Hotham Railway line, with picnic, barbecue and play area.

A Masterplan for the two reserves combined with the inclusion of the adjacent Community Park is being developed to consolidate the development to date with remaining plans for this Regional POS.



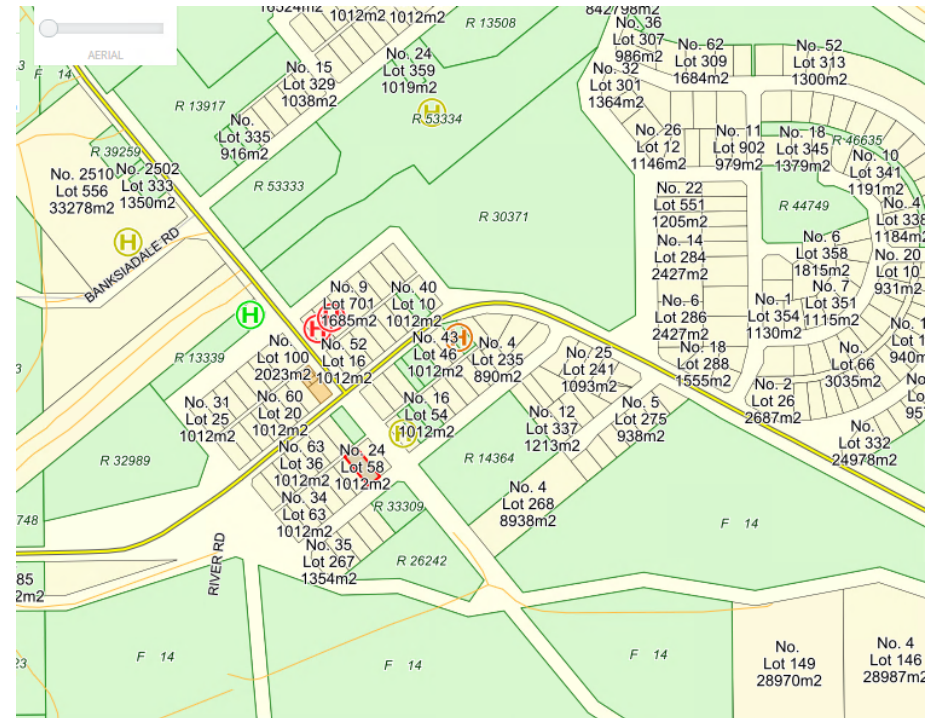
Forrest Street Reserve is close to the town centre and south west of the Dwellingup Reserve and Trails and Visitor Centre, a short walking distance from both. Parking is available off Marinup Street opposite the Dwellingup Hotel or Newton Street. The park is available for off-leash dog exercise.

The Dwellingup Futures Road Map is a strategic document that describes a vision for Dwellingup's future, and a proposed pathway to achieve the community's aspirations. It was endorsed by Council in October 2021. Developed through a multi-stakeholder process which kicked-off in late 2019, the draft Road Map presents a shared vision as well as goals, strategic priorities and key success indicators which aim to achieve the desired growth of Dwellingup by 2036.

Dwellingup has experienced a period of significant investment and growth over recent years, momentum that needs to be protected and sustainably maintained.



Dwellingup Trails Precinct POS



## 9. RURAL NORTH – NORTH DANDALUP / NAMBEELUP

### Population | Forecast Population

2011	723 (North Dandalup / Rural North)
2021	400 (North Dandalup)
2022	1015 forecast population*
2051	2241*

### Regional POS

Nil

### District POS

Nil

### Neighbourhood POS

North Dandalup Reserve / Community Precinct with oval, community halls etc R15844

### Local POS

Atkins Park R50023 2.38ha | North Dandalup Community Park R45103 1.21ha |

Jennie Place Reserve R45107/R45108 4.51ha | Franklin Drive Park |

North Dandalup Foreshore East/ West R45471 R45107 R35062

### POS – Proposed – new POS as part of subdivisions

\*forecast.id.com.au

## North Dandalup / Nambeelup

The north eastern zone of the Shire covers the North Dandalup Town site, surrounding rural environment, the Darling Scarp foothills and the State Forest. The eastern Forest sector is predominantly under Alcoa mining lease and the scarp area has some limited Hills Landscape Protection development off Hines Road along with the Yamba Rural Residential estate off Boyd Road.

North Dandalup, 71km from Perth and 15km north of Pinjarra, has a population of approximately 400 people. The structure plan indicates a future population of over 5000 people. Recent subdivision and development of land has provided new residential land for additional residents.

The revised 2011 structure plan for the town site proposes urban development south of Lakes Road and either side of the Railway Reserve west of South West Highway, including rural residential and rural small holdings. As part of the development, public open space distribution needs to be assessed, along with planning for drainage, the local road network and transport planning requirements associated with the future deviation of Lakes Road and crossing of the Railway line.

Any population growth to the adjoining rural locality of Nambeelup is anticipated to use POS and other community infrastructure within the North Dandalup town site.

The North Dandalup Dam, managed by the Water Corporation has a parking area for access to recreation facilities including lookout, toilets, and picnic area with barbecues. The Munda Biddi Trail for mountain biking passes through the Dandalup forest area and includes the Dandalup campground.



In consultation with the community in 2021 a Masterplan has been developed by the Shire for the largest POS, North Dandalup Reserve / Community Precinct to the eastern edge of town on the South West Highway [R15844].

High priority for the reserve, and being progressed during 2022 is the creation of a green space adjacent to a new play space and upgraded community facilities near the existing aged oval. The oval's bore and irrigation has fallen into disrepair, with the current water availability unknown and being investigated 2021-22. Within the reserve, the attractive and substantial North Dandalup Community Hall is regularly used by the community. In addition to the oval with footy goals, the reserve currently provides tennis / basketball courts and space for the local primary school's Little Athletics, and practice cricket nets; with aged facilities now requiring some upgrade. It also incorporates a tourist rest point with information and space for motorists with caravans /RVs that are able to stay one night. Barbecue and picnic facilities under shady mature trees are available for all.

Community Park, the reserve on Railway Parade adjacent to the railway line and town station, is the main park for North Dandalup to the west side of the South West Hwy. Both the station and park have had recent upgrades, and the park presents well, is central in town and caters for families with a children's play space and picnic area. It also has a small gravel pump track and walk paths that connect with the local streets.

The town would benefit from streetscape enhancements, with shady trees provided and footpath connections between the local western park and neighbourhood eastern reserve/ community precinct, to improved legibility and connections within the town and its few retail/hospitality outlets and primary school.

To the north of town with access from Beau Sovereign Court, Jennie Place Park is public open space with an off-leash dog area and nature spaces of over 7 hectares along the North Dandalup River, connecting to the North Dandalup Foreshore reserves.



North Dandalup Community Precinct – Masterplan (partial)



North Dandalup Community Park



New playground installed with subdivision at Franklin Drive Park

# 7 Actions

To progress the POS Strategy, Actions are listed throughout the POS Strategy document that will need to be undertaken to move towards the vision and objectives for POS, with a well-planned and staged approach to future development and long term care, as one of the most important roles of the Shire.

## ACTIONS

### Example

*Actions are listed throughout – they will need to be undertaken to move towards the vision and objectives for POS as outlined in this Strategy*

A number of Actions are identified which are to be addressed to strengthen the organisational and community knowledge, to plan and develop the Shire's vision for its public open space. These actions will be the responsibility of the Shire Infrastructure managers, to complete and inform Executive Management and Council, to ensure investment and resources are available in order to implement and address the POS initiatives outlined.

They are provided here as a full list, for easy reference.

Action	Description
1.1	Develop an Environmental Sustainability Strategy incorporating a Biodiversity Linkage Plan that aligns to current POS
2.1	Develop a POS Infrastructure Plan to inform the LTFP (Long Term Financial Plan)
2.2	Develop a Tree Preservation Framework with a Significant Tree Register Including significant trees within POS and streetscapes
2.3	Develop a Signage Guide/ Strategy and Style Guide for the Shire, and implement for consistency across the Shire
3.1	Prepare summary document/ Flyer for developers to inform POS development, including Locality guidelines such as Material Palette  To assist with enabling all future POS provision and developments undertaken through subdivision development align with this POS Strategy.
4.1	Review hydrozoning for all POS including streetscapes
4.2	Develop hydrozoning plans for POS including streetscapes identified in the Review as requiring improvements or modification
4.3	Develop a Street Tree Masterplan for the Shire with tree species allocated and a yearly Tree Planting Program
4.4	Develop Streetscapes Plan/s for the Shire's main streets to improve physical connections and plan for upgrades for more aesthetically pleasing and connected places along with engineering improvements

Action	Description
4.5	Review the Shire's Bike Plan and develop a Dual use path Strategy that provides for cycling and walking and utilising POS for connectivity
5.1	Review and update the procedure documents for the acceptance of POS from developers as part of subdivision development – from Development Application   Approvals of Documentation   Construction   Maintenance Period   to Handover to Shire.
5.2	Map the Shire's play spaces and their facilities/ equipment to show distribution and undertake Gap Analysis and Future plan for new facilities, renewals and upgrades.
5.3	Prepare a Flyer that can be provided to event holders with simple guidelines on use of POS for events
5.4	Develop Style Guide/ Material Palette for the Shire and specific Locality Material Palettes for various localities, for consistent suites of furniture and other infrastructure, to create a style and sense of place, which will also be utilised by developers.
5.5	Review Irrigation guidelines to develop an Irrigation Specification that can be applied across the Shire's POS including by developers, for consistency of systems and their components; and adoption of up-to-date technologies.
5.6	Review existing POS landscaped areas and Develop and implement ecozoning plans as a component of the hydrozoning review for all POS including streetscapes
5.7	Review existing POS lighting provision and Develop lighting guidelines
5.8	Develop Policy and related Guidelines for Memorials in POS to guide the future placement of memorials

5.9	Review Parking Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers, for consistency of application and adoption of up-to-date materials and technologies. Prepare Standard Drawings as component of the Specification/s
5.10	Review Paving and Hardstand Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers, for consistency of application and adoption of up-to-date materials and technologies. Prepare Standard Drawings as component of the Specification/s
5.11	Review Perimeter Asset Guidelines to develop Specification/s that can be applied across the Shire's POS and streetscapes including by developers. Prepare Standard Drawings as component of the Specification/s
5.12	Develop a Signage Strategy for the Shire with Signage Suites for specific localities and sign typologies including wayfinding, entry signs and park signage
5.13	Review Shire's Asset Naming Conventions specifically for POS for a consistent approach and easy identification of places by the public and visitors and update Policy to suit. Undertake dual naming consultation and develop as part of Naming Conventions. Undertake this prior to / in conjunction with the Signage Strategy
5.14	Develop the Shire's Active Sports and Recreation Strategy
5.15	Map the Shire's informal sports provision / facilities to show distribution and undertake Gap Analysis and Future plan for new facilities, renewals and upgrades
5.16	Map the Shire's waterway's facilities including launch facilities to show distribution and undertake Gap Analysis and Future Plan for new facilities, renewals and upgrades
6.1	Map POS existing in Intramaps   Asset Master   and as Locality Diagrams

# 8 Appendices

- Glossary Abbreviations & Acronyms
- Play Spaces – List and Asset Value 2021
- Data sheets – POS - Localities
- Documentation Checklist – for Landscape Approval of documentation submitted by developer



## Glossary, Abbreviations & Acronyms

Definitions for terms and abbreviations/acronyms used in this document:

POS/ Public Open Space – Land used as a public park or recreational reserve, owned or managed by the local government authority (LGA), in this case the City of Mandurah.

“POS refers to urban green spaces: parklands, play areas, playing fields, bushland, greenways and other similar spaces people use for recreation, sport and social interaction.”

Classification Framework for Public Open Space (DSR, 2012).

Biodiversity – the variety of different native plant and animal species in a habitat or geographical area, a high level of which is usually considered to be important and desirable

Catchment – the area and population from which a city or individual service, such as a park, attracts visitors or customers

CCTV – Closed Circuit Television, used for monitoring, for crime prevention

CPTED – Crime Prevention through Environmental Design

Degradation – a decline to a lower condition, quality or level

Design Development – development of concept design to more detailed proposals/ plans.

Design Review – is a review of a design to provide expert, objective, independent advice regarding the design quality of a plan or proposal and the interpretation and application of relevant Policy and Guidelines.

Developer – a person or other entity that builds on land or alters the use of land or buildings on it for some new purpose

Development / subdivision – development of land or buildings for some new purpose, usually subdivision of land into smaller parcels for residential and/or other use/s

Documentation - refers to those drawings, images, models and narrative elements produced and organised to convey design intent and construction requirements, including Site Plans, Concept Plans, Plan sets for quote/ tender / construction etc.

DPLH Department of Planning Lands and Heritage (WA)

Hierarchy/ hierarchical classification – arranged in order of rank, a system of grouping things according to rank, levels or orders

Hydrozone/ hydrozoning – is the grouping of plants with similar water requirements. This allows the zones to be managed based on their water needs, and for irrigation to be designed and installed appropriately to suit

Informal sports – also known as ‘non-organised’ sports activities, being physical recreation activities for sport and exercise that are not organised by a club or association

Local government authority/ LGA – the local authority responsible for an administrative division of a country/ metropolitan area. Sometimes interchanged for local government area, or referred to as ‘the council’ although not technically correct. In this case the LGA is the City of Mandurah

Locality – an area or neighbourhood, whether a town, suburb or other designated locality.

Masterplan is a long-term planning document, in the form of a graphic concept plan outlining an area of land and what is proposed for it, including existing and proposed elements and features, to guide development over time. This usually precedes more detailed architectural plans for buildings and landscape, to develop the masterplan to onsite construction.

**Neighbourhood Design** - A standard structure plan is prepared that addresses urban structure, public open space, land use zoning and the movement network. It does not address built form.

**Precinct Structure Plan** - A precinct structure plan is prepared that addresses urban structure, public realm, zoning and land use, the movement network and built form

**Public Realm** – includes all public spaces including streets, plazas, civic squares and other all other areas of public space used by and accessible to the community including public open space.

**Reserve** – Land reserved for a particular use or purpose, usually recreation, but may also be for other specific use such as water management.

**Shire / The Shire** – The Shire of Murray, local government authority, also shown as acronym SoM in tables etc.

**Site** is an area or ground on which something exists; the place, scene, or ground occupied.

**Stakeholder** is a party, a person or other such as a business, that has an interest in or concern in something, and can either affect or be affected by the issue at stake.

**Town Planning Scheme** – a legal document dealing with land use, development control and infrastructure coordination for the City

**Tree Protection Zone (TPZ)** - of a tree is the area above and below ground set aside for the protection of a tree's crown / canopy and its roots, calculated based on the tree trunk's diameter, in order to provide for the viability and stability of the tree. It is an estimate of the area required to protect a tree from adverse construction impacts

**Urban** as in urban areas, relates to built-up areas, of a town or city; includes also suburban areas surrounding the town/city

**Urban forest** is a forest or collection of trees that grow within a city, town or other urban area. The care and management of these trees is known as urban forestry

**WALGA** Western Australian Local Government Association

**Waterwise** means being water-wise by using water more efficiently

**WSUD/ Water Sensitive Urban Design** – integration of water management into land use planning to achieve optimal solutions and implement efficient and effective best management practices.

## POS – Lists – by Function / Locality

### Restricted Reserves - Function

Local Government Authority Name	Reserve Name	Reserve Number	Total Area ha (0.000)	Vested Purpose	Category	Lot/Street Address	Suburb
Shire of Murray		45330	0.0100	Water Supply	restricted	Cheyne Court	
Shire of Murray		31936	0.0252	Drain	restricted	Adaluma Way	
Shire of Murray		32614	0.0519	Drain	restricted	Lot 366	Pinjarra
Shire of Murray		39978	0.0632	Boat Shed	restricted		
Shire of Murray		32583	0.0755	Drain	restricted		Pinjarra
Shire of Murray		45199	0.1133	Drainage	restricted	Yunderup Lot 96	
Shire of Murray		42269	0.1207	Fire Brigade Station	restricted	Yunderup Road	
Shire of Murray		31550	0.1512	Drain	restricted	Peel Street	Pinjarra
Shire of Murray		23971	0.1791	Hall Site Girl Guides	restricted	Forrest Street	Pinjarra
Shire of Murray		20198	0.2023	Agriculture Hall Site	restricted		Dwellingup
Shire of Murray		34603	0.2076	Pre School Centre	restricted	Forrest Street	Pinjarra
Shire of Murray		39259	0.2400	Emergency Services	restricted	Newton Street	Dwellingup
Shire of Murray		46635	0.3466	Public Accessway & Utility Services	restricted	Dwellingup Lot 336	
Shire of Murray		45005	0.4000	Fire Station Site	restricted	Coolup Lot 190	
Shire of Murray		27242	0.4249	Pound Site	restricted	Peel Street	Pinjarra
Shire of Murray		33749	1.1525	Recreation & Conservation of Fauna	restricted	Boodalan Island	Yunderup
Shire of Murray		36703	1.1688	Historical Buildings	restricted	Henry Street	Pinjarra
Shire of Murray		45108	1.9645	Drainage	restricted	Jennie Place	
Shire of Murray		6532	2.3067	Rubbish Disposal Unit	restricted		Coolup
Shire of Murray		46044	2.6886	Drainage	restricted	Peaceful Waters Drive	
Shire of Murray		20433	2.8485	Rubbish Depot	restricted		Pinjarra
Shire of Murray		18676	4.0469	Gravel	restricted		Dwellingup
Shire of Murray	Pinjarra Cemetery	8109	4.3655	Cemetery	restricted		Pinjarra
Shire of Murray		45790	4.5000	Foreshore Management	restricted		
Shire of Murray		38648	4.7398	Pound Site	restricted	Moore's Road	Pinjarra
Shire of Murray		23015	5.2520	Recreation & Preservation of Historic Buildings	restricted		
Shire of Murray		25635	6.1572	Gravel	restricted	Boyd Road	
Shire of Murray		31654	7.1553	Rubbish Disposal Site	restricted		
Shire of Murray		45518	7.9272	Tourism & Museum Purposes	restricted	Pinjarra Lots 361, 362 & 363	
Shire of Murray		25634	22.1441	Gravel	restricted		
Shire of Murray		35077	28.0067	Public Recreation	restricted		
Shire of Murray		45827	41.9325	Conservation & Recreation	restricted		
Shire of Murray		20215	78.5090	National Park	restricted		

Refer spreadsheet Provision of Public Open Space for full listing of all POS Reserves

## Locality List – POS – Localities A-Z

Locality	Name Park / Reserve/ Reserve #	Reserve Number	AssetMaster ID	General Description including Location and Facilities Summary	Size / hectares (m <sup>2</sup> )	Hierarchy	Function - Sport/ Recreation/ Nature
Birchmont	Birchmont Launch Facility	R44977	9	Car parking space, boat launch, bush.	7,900 (portion of whole reserve of 221,129)	Neighbourhood	Recreation
Birchmont	Herron Point Reserve	R31922	34	Nature-based camp on the banks of the Peel Harvey Estuary, with boat ramp and camping sites with toilet and facilities. To be upgraded in 2022.	253280	Regional	Recreation
Coodanup	Nairn Road Launch Facility	Lot 400 Beacham Street	52	Nairn Rd Launch Facility is located and generally managed by the City of Mandurah. Assessment ID 9081 owned by Murray Part of the greater Regional River foreshore reserve of the Serpentine River	280933	Regional	Recreation
Coolup	Berger Street Reserve	R6542	170	Berger Street Reserve is a nature reserve with bushland in Coolup.	5059	Neighbourhood	Nature
Coolup	Coolup Emergency Services Precinct	R45005	12	Restricted Reserve for the volunteer bush fire brigade in Coolup and district.	5707	District	Restricted
Coolup	Don Spark Reserve	R6535	17	Don Spark Reserve is a local park on the corner of Dallas St and Fawcett St, Coolup, central in the town and near the General Store. It presents well, with play space, basketball hoop and barbecue and picnic seating.	1,012 + 944 = 2,006	Local	Recreation
Coolup	Enzo Menara Reserve	R17448	26	District Reserve for Coolup town and greater Rural South district, Enzo Menara Reserve is on Murray St, Coolup's main street. It is Coolup's community meeting and sporting location, with hall and two tennis courts, play space in sandpit, and designated off-leash dog exercise area.	13658	District	Sport and Recreation
Coolup	Murray Regional Equestrian Centre	R52819	49	Regional Equestrian Centre in Coolup - a hub for regional equestrian activities, offering year round events arena with supporting amenities including grandstand, clubrooms, function room and administration.	235304	Regional	Sport
Dwellingup	Dwellingup Community Precinct	R20198	19	45-47 McLarty Street. 1412m <sup>2</sup> at 45 and 612m <sup>2</sup> at #47	612 + 1,412 = 2,024	Neighbourhood	Recreation
Dwellingup	Dwellingup Rose Garden	R22533 & Lot 9	22	Provides a peaceful garden area to sit, with bench seats, picnic shelter and walk path into town from the Dwellingup Trails Centre and reserve, immediately opposite on Moore St, to the corner of McLarty Rd.	1,012 + 1,012 = 2,024	Neighbourhood	Recreation
Dwellingup	Dwellingup Trails Precinct / Reserves	R30371 & R53333	23	Regional public open space for both Dwellingup locals and visitors to this tourism, nature and adventure-focused area. Pump track is a fit-for-purpose warm up facility for bike trail users featuring three difficulty levels. Skate park, picnic facilities, event spaces and sports oval. Two playgrounds, one near Moore St and the other north of the railway line near Banksiadale Rd. Masterplan 2021 draft for R30371 and R53333 combined and Dwellingup Precinct Structure Plan will inform planning for this POS.	80,366 + 12,732 = 93,098	Regional	Sport and Recreation and Nature
Dwellingup	Dwellingup Waste Transfer Station	R18676	24	Waste Transfer Station at Dwellingup	40469	Neighbourhood	Restricted
Furnissdale	Barragup Swamp Conservation Reserve	R35077	197	Nature reserve in Furnissdale, in the area previously known as part of Barragup.	280051	Neighbourhood	Nature
Furnissdale	Furnissdale Bridge Foreshore	R40295 & R27819	28	North west edge of Furnissdale...	20,036 + 4,452 + 1,594 + 18,814 = 44,896	Neighbourhood	Nature and Recreation
Furnissdale	Furnissdale Foreshore	R27704 & R33768	29	Alongside the Furnissdale boat ramp on Riverside Drive. Boat ramp is very busy during summer weekends and holiday times.	94,657 + 8,018 + 7,284 = 109,959	Neighbourhood	Recreation



Furnissdale	West Murray Community Precinct	R40830	89	Community facilities including Community Hall, car parks, small play space with slide and swings.	7233	Neighbourhood	Recreation
Furnissdale	York Park	R25070 & R24091	92	The Neighbourhood POS for Furnissdale, fairly central and easy for residents to access, it has both sporting and recreational facilities, including 3 tennis courts, kickabout with soccer goals and basketball court, but requires improvements. Shade sails were installed over the existing play spaces, with modifications and upgrades to follow. Masterplan to be fully developed.	7,589 + 7,855 = 15,444	Neighbourhood	Recreation and Sport
Furnissdale (Future)	New subdivision POS XXXX	XXXX		Refer Structure Plan... for locations and information		District	Sport and Recreation
Nambeelup	Murrayfield Airport		51			Regional	Recreation
North Dandalup	Atkins Road Park	R50023	3		23872	Local	Recreation
North Dandalup	Franklin Drive Park	Lot 150	124	Local park with play space developed as part of the Dandalup Springs residential subdivision.	25944	Local	Recreation
North Dandalup	Jennie Place Reserve	R45108	171	Stormwater basin - Drainage function	19645	Local	Restricted
North Dandalup	North Dandalup Community Park	R45103	53	The linear local park in North Dandalup to the west of the South West Hwy, near the train station. The Park presents well, is central in town and caters for children's play and also picnics with a play space in a sandpit, barbecue, seating, half court basketball and small bmx track.	12,174	Local	Recreation
North Dandalup	North Dandalup Community Precinct	R15844	54	North Dandalup Reserve Masterplan was prepared for this Neighbourhood POS in 2021 with community input and was Council endorsed in August 2021. Community Hall is regularly used along with the tennis courts/ basketball courts. Also primary school use such as Little Athletics. Tourist rest point with barbecue/ picnic facilities and information. Motorists with caravans /RVs able to utilise and stay one night	45,015	Neighbourhood	Sport and Recreation
North Dandalup	North Dandalup Foreshore East	R45471 R45107	172	Foreshore reserve adjacent to North Dandalup River, west of Beau Sovereign Court, connecting to Jennie Place to the south	26,815 + 18,632 = 45,447	Local	Nature and Recreation
North Dandalup	North Dandalup Foreshore West	R35062	173	Foreshore reserve adjacent to North Dandalup River, east of McMahon Rd. Refer Notes re lack of connection along river/ creek	41230	Local	Nature and Recreation
North Yunderup	Correas Street Park	R37944	15	Lot 2692 Correas Street is a drainage reserve Off-leash dog exercise area.	12875	Local	Nature and Recreation
North Yunderup	Culleenup Rd Park		61	The POS opposite Kingfisher Park on Culleenup Rd, this has picnic facilities and a swimming pontoon in the river.		Neighbourhood	Recreation
North Yunderup	Kingfisher Park	R21019	37	Central and main POS for North Yunderup. Masterplan to be prepared 2022 for grant funding applications for upgrades to better integrate the facilities of the park and improved connectivity, including to the riverside POS to the south. Currently has two separate play spaces, exercise equipment, paths and is well treed around an open turf oval.	27,567	Neighbourhood	Recreation
North Yunderup	North Yunderup Foreshore		58			Neighbourhood	Nature and Recreation
North Yunderup	North Yunderup Launch Facility		59			Neighbourhood	Recreation
North Yunderup	Tonkin Drive Foreshore	R45205 & R45206	94		35,500 + 9,893 = 45,393	Regional	Nature and Recreation
North Yunderup	Tonkin Drive Park	Rxxx	87	Lot 2521 Tonkin Drive Dog Park. Off-leash dog exercise area. No photo on SOM website		Local	Recreation
Pinjarra	Battle of Pinjarra Memorial Park	R31032	7	301 McLarty Rd, Heritage site on the western banks of the Murrumbidgee River opposite the Pinjarra Cemetery with memorial for the Pinjarra Massacre	21097	Neighbourhood	Recreation



Pinjarra	Binjareb Park	R25503 & R32876		Bindjareb Park is on Hampton Rd, Pinjarra, a nature sanctuary, home to a number of wildlife and rare species such as the Red-tailed Black-Cockatoo. Managed by local traditional owners, the park is an Aboriginal cultural and nature reserve with walk trails, where people can learn about the bush, local Dreamtime stories, food and customs including bush tucker.	$65,142 + 11,804 + 4,826 = 81,772$	Neighbourhood	Recreation and Nature
Pinjarra	Birmingham Way Foreshore	R33446 & R32583 & R33446	10	Located alongside the Murray river, opposite side of Cantwell Park, accessed from the pedestrian suspension bridge with small play space predominantly for younger children	$3,845 + 684 + 15,072 + 72 + 13,009 + 180 + 12,823 + 13,457 = 59,142$	Neighbourhood	Recreation and Nature
Pinjarra	Cantwell Park	R29516 & Rear of Lots 50, 51 & 190	11	Cantwell Park is a historic established park located between the banks of the Murray River and George Street in Pinjarra and includes the recent 2021 addition of the Town / Murray River Square to connect the park to the town. Extensive lawn areas and plantings of mature exotic specimen trees and local trees. Large diverse play spaces, shady picnic areas and outdoor exercise equipment	$4,128 + 6,181 = 10,309$ + rear of other lots	Regional	Recreation
Pinjarra	Community Hall			Community Hall		Neighbourhood	Recreation
Pinjarra	Cornish Way Park	R50125	177		1319	Local	Recreation
Pinjarra	Edenvale Heritage Precinct	R36703 & Lots 201, 202 & 410	25	A Masterplan and a more recent Place and Activation Plan has been prepared for the Edenvale Heritage precinct, incorporating the Edenvale historic homestead and related buildings, tearooms, visitor point, museum, arts and crafts, as well as the adjacent historic Anglican church, rose gardens and riverside 'Glebe Land' park or 'Memorial Park', with olive grove and ANZAC memorial; with an aim to further develop these sites, improving place and activities. The Masterplan requires a review to better plan for the place activation recommendations and to progress planning and upgrade of this iconic POS.	$11,755 + 2,317 + 1,540 + 5,165 = 20,777$	District	Recreation
Pinjarra	Grove Park	R45466	32	Grove Park was developed as part of the Murray River Country Estate subdivision. The park features a stormwater basin / wetland, combination play equipment and mature trees and lawn. 2104 Midsummer Circle, Grove Park Lane is immediately north of the park.	8782	Local	Recreation and Nature
Pinjarra	Henry Street Foreshore	Lot 206 (14) Henry Street & R53244	33	Henry Street Foreshore is alongside the Henry St boat ramp. The park is useful as a pull over area for tourists due to the large carpark and access to the river, although other facilities are limited.	$5,453 + 30,503 = 35,956$	Regional	Recreation
Pinjarra	Hotham Valley Railway	R45518	35		41115	Neighbourhood	Recreation
Pinjarra	Humphrey Park	R31942	36	Humphrey Park on Humphrey Street with new residential urban development, to be developed as a component of the staged subdivision. Bore and reticulation are required, and the facilities including play and picnic equipment, as per the Masterplan.	$4,118 + 2,224 = 6,342$	Neighbourhood	Recreation
Pinjarra	Lions Park	R45518	38	Neighbourhood park with play equipment and recreation space neighbouring the Pinjarra Heritage Railway Precinct and Visitor Centre. A large park that presents well with play equipment, although minimal and basic. Park serves as a rest area for travellers and has barbecue and picnic facilities and public toilets.	10725	Neighbourhood	Recreation

Pinjarra	Ludlow Loop Park	R49430 & R50046	40	Linear park between Lukin Loop and Ludlow Loop with grass, trees and stormwater basin, provides a good walk circuit. Also includes along Pinjarra Rd a tree-planted buffer strip to the rear of houses on Lukin Loop, essentially functioning as road reserve verge with footpath and retention of mature shady trees.	$10,472 + 1,280 = 11,752$	Local	Recreation
Pinjarra	Meadow Lane Park	R48678 & R53057	41	Developed as part of the Murray River Country Estate, a linear park expanding to a circular centre in the centre of the Estate, with path network connecting between Country Rd and Sunset Circle through to Redcliffe Oval. The oval is the main recreational hub for the estate, with combined cricket and football oval, community hall, tennis courts and play space.	$11,644 + 415 = 12,059$	Local	Recreation
Pinjarra	Morni Kep Park	R37757 & R23798	44		$6,501 + 21,689 = 28,190$	Neighbourhood	Nature
Pinjarra	Murray Aquatic and Leisure Centre Precinct	R44445	45		$16,491 + 19,116 = 35,607$	District	Sport
Pinjarra	Murray Civic Precinct	R315 & R34603 & Lots 1, 2, 211, 203, 204 & 205 James St	47	Shire of Murray Civic Centre and Library	19 Lots totalling 24,186	District	Restricted
Pinjarra	Murray Operations Centre Precinct	Lots 11 & 239	48	Shire of Murray Operation Centre	$23,489 + 19,594 = 43,083$	District	Restricted
Pinjarra	Murray River Square	Rear of R26081 & Lots 26, 85, 86, 87 & 88	50	Refer Cantwell Park		Regional	Recreation
Pinjarra	North Pinjarra Central Park	R36116 & R32514	55	North Pinjarra / Carcoola Central Park is mostly a narrow linear park that acts as a public access way (PAW) providing access from the primary school to the south through to the northern Recreation Precinct. It widens to a wedge of park in the centre, accessible from Wisteria Crescent to the west and to its east from Carcoola Avenue between Darwinia Place and Flaveria Place, with a small play space and trees.	$35,815 + 3,791 = 39,606$	Neighbourhood	Recreation
Pinjarra	North Pinjarra Recreation Precinct	Lot 3 (2) Wandoo Drive & R42139	56	Neighbourhood recreation reserve including the North Pinjarra Community Hall situated to the northern edge of North Pinjarra accessed via Carcoola Avenue and Wandoo Drive. Has the Hall, changerooms, recently installed play equipment, seating, mixed-use basketball and netball courts, tennis court, small-scale BMX track and sports oval which is a designated off-leash dog exercise area.	$89,466 + 2,591 = 92,057$	Neighbourhood	Sport and Recreation
Pinjarra	North Pinjarra Reserve East	R42139 & 4 x R35930	175	Buffer strip linear park along east side of the entry into Carcoola Avenue and at back of properties to east. Walk paths provide some recreational value although some are in the adjacent private property	$58,079 + 8,119 + 6,824 + 1,330 + 2,164 = 76,516$	Local	Recreation
Pinjarra	Osborne Place Park	R32527	62	Osborne (Place) Park is a local park in the suburbs of Pinjarra, accessed from either Osborne Place or Bates Place. It has one item of combination play equipment. Park is uninspiring, lacks shade, is hot and does not entice use.	5997	Local	Recreation
Pinjarra	Pinjarra Cemetery	R8109 & R39582	64	Cemetery, toilets, car park off Padbury Road	$20,117 + 19,619 + 4,540 + 999 + 466 = 45,741$	District	Restricted
Pinjarra	Pinjarra Foreshore		122	Combined Henry Street Foreshore, Cantwell Park, Murray River Square. Boundaries to be reviewed. Regional classification hierarchy includes all adjoining foreshore reserves for Murray River in Pinjarra from this park through to Glebe Land to the Boat Ramp at Lot 14		Regional	Recreation

Pinjarra	Pinjarra Railway Community Grounds	R45518	67	Located and generally managed by the City of Mandurah. Assessment ID 9081 owned by Murray Part of the greater River foreshore reserve	29022	Neighbourhood	Recreation
Pinjarra	Pinjarra Railway Precinct	R45518	123	Combined Precinct of Lions Park, Hotham Valley Railway, Pinjarra Railway Community Grounds	10,725 + 29,022 + 41,115 = 80,862	Neighbourhood	Recreation
Pinjarra	Redcliffe Oval Sporting Precinct	R48678	70	Redcliffe Oval is the neighbourhood sporting precinct developed as part of the Murray River Country Estate and is the main recreational hub for the estate. Combined cricket and football oval, community hall, tennis courts and half court basketball and play space..	32,313	Neighbourhood	Recreation and Sport
Pinjarra	River Drive Foreshore	R31951	71		2,449 + 4,706 = 7,155	Local	Recreation
Pinjarra	Rotaract Park	R31551	77	An older park that offers little to entice residents to get out and utilise it. Existing play equipment is satisfactory, but would benefit with additional equipment for younger children, and seating and tables.	4,119 + 635 = 4,754	Local	Recreation
Pinjarra	Rotary Park	R32218	76	Located very close to Pinjarra High School. Rotary Park is the park with play space on the southern side of McLarty Road. Would benefit from additional equipment and extra shade.	6,781 + 967 = 7,748	Local	Recreation
Pinjarra	Sanctuary Drive Foreshore	R45790 & R45827	78	Western foreshore of the Murray River north of Pinjarra at the Murray River Country Estate	45,000 + 363,502 = 408,502	Regional	Recreation and Nature
Pinjarra	Sir Ross McLarty Sporting Precinct	R5170	80	District sports precinct featuring three ovals commonly used for cricket and football with designated off-leash dog exercise area, skate park and walk paths. Extensive upgrades as planned as per the 2021 Masterplan including playground, improved parking and sports reconfiguration/ upgrades and buildings and facilities.	221255	District	Sport and Recreation
Pinjarra	Teague Street Park	R32844	86	An old park that in the 2009/10 financial year had an injection of funds and as a result had new modern play equipment installed including a combination unit and double swing in a sandpit	6200	Local	Recreation
Point Grey	Robert Bay Foreshore		74			Regional	Recreation
Ravenswood	Corio Road Waste Transfer Station	No reserve number on Intramaps	14	Waste Transfer Station	149655	District	Restricted
Ravenswood	Frank Cross Park		27			Local	Recreation
Ravenswood	George Brook Reserve	R45616	30	Accessed from south end of Eaglehawk Drive, George Brook Reserve is predominantly a nature reserve with its south east corner on the banks of the Murray Rivery		Local	Recreation and Nature
Ravenswood	Gowman Park	R36904 (x2 lots)	31	Gowman Park was expanded as part of the Ravenswood subdivision immediately south of Nancarrow Way. Play space, basketball court, picnic and barbecue facilities with shelter, kickabout and substantial landscaping with paths and garden beds. Accessed from Lloyd Avenue opposite the Ravenswood Hotel and stretching east to Gowman Way's wider end of the park, with courts and play space, the park is well treed and presents well.	4111 and 6842	Neighbourhood	Recreation



Ravenswood	Jones Lane Park	R50305 / R34148	117	Neighbourhood Park which is proposed to include the proposed Ravenswood Community Centre. Currently has paths, a small play space and kickabout and two sizeable stormwater basins with local planting and trees. R34148 to its south west provides access through to Rodoreda Crescent's park on the river.		Neighbourhood	Recreation
Ravenswood	Montgomery Parkway Park		148			Local	Recreation
Ravenswood	Moodyne Ramble Park	R48232 (x3 lots)	43	The large park either side of Jolly Rambler Boulevard as you enter Riverland Ramble Estate in Ravenswood off Pinjarra Road, between Pinjarra Rd and Moodyne Ramble, to Goldseeker Loop to the south. It is well established and well presented with stormwater basins, a good mixture of trees and shrubs, path network, good sized sandpit play space with shade sails, picnic tables and seating. Off-leash dog exercise area is also provided.	8655 and 14402 and 6516 = 29,573	Neighbourhood	Recreation
Ravenswood	Murray River Bend Foreshore	R25077 (2)	46	Foreshore with boat ramp, and good quality play equipment. Picnic facilities are tired and need to be updated and modernised with new picnic tables, seating and barbecue.		Neighbourhood	Recreation
Ravenswood	Ravenswood Foreshore Recreation Precinct	R26526	68	The POS on the perinsular, which forms part of a Regional Open Space Reserve under the State's Peel Region Scheme. The larger part of the study area is private land, abutting the existing District POS R26526 it currently provides for public recreation on the river's edge, including walking, picnics and barbecues, and could better provide for waterways recreation, including canoe/kayaking. Upgrade of facilities is anticipated, with planning and funding.		District	Recreation
Ravenswood	Rodoreda Crescent Park	R40109	75	Rodoreda Park is foreshore land between the river and residential properties, with access to the south end from Rodoreda Crescent's southern culdesac and just east of Carter St another entry off Rodoreda Crescent. The park is well treed with a steep river bank.		Local	Recreation
South Yunderup	Adventurescape Park	R52602	1	Neighbourhood park, with a farmyard themed playground centrally located in the Austin Lakes subdivision of South Yunderup, provides for play and picnic use, having barbecues and picnic tables under shelters and nearby toilets and sizeable carparking space with accessible paths.	63509	Neighbourhood	Recreation
South Yunderup	Anderson Park	R44200	2	Small local park on the corner of Delta Drive and Pateman Place backing onto the South Yunderup Canals with small sandpit play space, bench seat and bike racks by the bus stop.	2,766	Local	Recreation
South Yunderup	Banksia Terrace East Foreshore   Banksia Terrace West Foreshore	R26735	4 5	Foreshore reserve adjacent to Murray River along Banksia Terrace, with off-leash dog exercise area, seats, trees and grassed areas		Neighbourhood	Recreation
South Yunderup	Batavia Quays Launch Facility	R39978	6	Boating launch facility at the end of Batavia Quays at the South Yunderup canals, providing access to the Peel Harvey Estuary, with large carpark and treed waters edge.	13164	Neighbourhood	Recreation
South Yunderup	Coopers Mill	R23015	13	POS with restored wind-driven mill on Culeenup Island within the Murray Delta, only accessible by boat. Boat ramp, play space and picnic facilities, nature walk trail to the Mill with interpretive signage	49639	Regional	Recreation and Nature
South Yunderup	Countess Circuit Park	R50025	16			Local	Recreation

South Yunderup	Dutton Gardens Park	R51237	18	Small local park developed to a high level as part of the Austin Cove development, with perimeter paths, playspace, irrigated turf kickabout, seating, trees and planting and roadside parking. Accessed from Weewar Crescent and Dutton Gardens.	3531	Local	Recreation
South Yunderup	Lucy Hunter Park	R45591	39	Lucy Hunter Park is a well presented Neighbourhood park with recreation space, barbecue facilities and boat moorings at a jetty on the Yunderup Canals. Community events such as Christmas carols are held in the park as it has a sizeable gazebo and lawn areas	13219	Neighbourhood	Recreation
South Yunderup	Munji Street Park	POS Stage 5 Austin Lakes - R#####	219	New Austin Lakes park installed at end of 2021 by developers, with multicourts, stormwater basins, paths, picnic shelter and kickabout. Local trees and Jacaranda trees will provide shade when the park matures. Remains with developer until 2024.		Neighbourhood	Recreation
South Yunderup	Pelican Park	R38852	63	Pelican Park is a small park located next to the Murray River. Very popular on weekends for boating use of the jetty, and visits to the café alongside the park. The park currently has very basic facilities including a barbecue and picnic table, small play space and toilet block and is due for an upgrade.	2,494	Neighbourhood	Recreation
South Yunderup	Rivergum Esplanade Foreshore	R39985	73	Foreshore near the Delta Islands accessed from Young Rd/ Rivergum Esplanade, with boat ramp and large carpark including for boat trailer parking and treed rivers edge.		Neighbourhood	Recreation
South Yunderup	Sandy Cove Park	R39896	79	Sandy Cove Park at the corner of Delta Drive and South Yunderup Boulevard on the canals is a popular park particularly on weekends, with family groups making use of the park and the adjacent Tavern, café, restaurant and sports club. Recreational boating including kayaking is popular at the nearby Wharf Cove jetties and the beach and boardwalk to the north edge of the park. Park upgrades 2021-22 have revitalised the space, with Wharf Cove jetty upgrades proposed.	2469	Neighbourhood	Recreation
South Yunderup	South Yunderup Oval	R42522 R40736	83	South Yunderup Oval is a multi-purpose sporting oval (including winter soccer) with designated off-leash dog exercise area. New changerooms/ club room / storage facilities being built in 2021-22.	50498	District	Sport
South Yunderup	Tatham Road Foreshore	R26735	85	Foreshore reserve adjacent to Murray River accessed from Tatham Rd near Forrest Hwy		Neighbourhood	Recreation
South Yunderup	Warma Way Foreshore	R#####	241	A sizeable foreshore park, designated Local because of the fragmentation of the Warma Way foreshore reserve - if it was connected to Wellya and both had a better entry that wasn't so residential, this could be an excellent foreshore reserve available to a wider catchment. Opportunity to provide the entry as part of future development of land to the east of the existing canals and connecting with R38749 to the south. Existing facilities include a play space, seating and picnic table in a well treed area.	21862	Local	Recreation
South Yunderup	Wellya Crescent Foreshore		88	Wellya Cres adjacent to the estuary has minimal facilities, is used extensively by the local public as part of a walking trail around the lagoon abutting the estuary. Play space has a large climbing structure designed mainly for older children.	30,690	Neighbourhood	Recreation Nature
South Yunderup	Wharf Cove Launch Facility		90	Boating launch facility adjacent to Sandy Cove Park		Neighbourhood	Recreation
South Yunderup	Willow Gardens Foreshore	R38852	91	Foreshore park on the south shore of the Murray River, accessible via a pedestrian bridge from Pelican Park to its east or via a public access way from Willow Gardens, well treed shady river reserve with on-leash dog exercise area and kickabout and pleasant walk along the river.		Neighbourhood	Recreation



South Yunderup	Yunderup Centenary Park	Lot 9 (2)	93	Centenary Park, located alongside the Murray River in South Yunderup, with barbeque and boat mooring facilities. Has a poorly arranged play area with aging play equipment, that lacks shade, although there is surrounding picnic seating under locally made shelters, and mature trees. Consideration should be given to this play area being relocated to Lucy Hunter Park which is a much more appealing site. Public toilets near the corner of South Yunderup Rd.	12,748	Neighbourhood	Recreation
South Yunderup		POS Stage 7 and later - future POS		Local and Neighbourhood level parks are to be developed as part of subsequent stages of the residential development of Austin Cove.		Neighbourhood	Recreation
South Yunderup		POS Stage 7 and later - future POS		A District level park providing sports facilities is to be developed as part of subsequent stages of the residential development of Austin Cove, located to the south of the development near the existing high school.		District	Recreation
Stake Hill	Doliyup Street Park		125	New park within the Peel Business Park with walk path, seating, picnic tables.		Local	Recreation

## Play Equipment – Asset value 2022

Public Open Space	Play Equipment
Anderson Park	15,000
Birmingham Way Foreshore	8,000
Cantwell Park	350,000
Cooper's Mill Precinct	25,000
Don Spark Reserve	29,000
Dutton Gardens Park	55,000
Dwellingup Trails Precinct	75,000
Dwellingup Trails Precinct - Marinup Park	15,000
Enzo Menara Reserve	15,000
Franklin Drive Park	45,000
Fumissdale Foreshore	25,000
Gowman Way Park	10,000
Grove Park	30,000
Jones Lane Park	20,000
Kingfisher Park	85,000
Moondyne Ramble Park	50,000
Murray Bend Foreshore	19,000
North Dandalup Community Park	20,000
North Pinjarra Central Park	40,000
North Pinjarra Recreation Precinct	50,000
Osborne Place Park	15,000
Pelican Road Park	5,000
Redcliffe Oval Sporting Precinct	25,000
Rotary Park	20,000
Rotoract Park	20,000
Sandy Cove Park	60,000
Teague Street Park	45,000
Wellya Crescent Park	20,000
West Murray Community Precinct	7,000
York Road Recreation Precinct	45,000
Yunderup Centenary Park	20,000
<b>TOTAL</b>	<b>1,263,000</b>

Also, Adventurescape in Austin Lakes South Yunderup following Handover to the Shire

## Landscape Documentation Checklist

1. Landscape documentation submitted for Shire Approval shall generally be presented and discussed with Shire staff at three different Stages: Concept, Preliminary Design, then Design Development and Final Design - Issued For Tender/ Construction.
2. Concepts shall include conceptual proposals and site information:
  - Site Analysis information, including Surveys and Report/s; and
  - Conceptual designs and report/s.
3. Preliminary Design Proposals shall include:
  - Preliminary designs;
  - Draft Management Plan/s for remnant native vegetation, grass, shrubs, groundcovers and trees;
  - Draft Management Plan/s for proposed water use;
  - Draft Management Plans for play equipment, structures and other infrastructure elements;
  - Draft irrigation designs and bore capacity for Shire information;
4. Final Design Proposals shall include:
  - Final proposed designs; as Documentation Set of Landscape Drawings and Specification, with supporting Management Plans;
  - Irrigation drawing set with complete details of all materials, sizes, location of lines, sprinklers and other equipment, including locations of solenoids; and
  - Documentation of bore license and construction details; and
  - Landscaping Maintenance Schedule for establishment and ongoing maintenance.
5. All submitted drawings at any of the above stages shall include:
  - Prepared by information and contact details
  - Version history and date
  - Locality map
  - Legend
  - North point
  - Title block
  - Scale
  - Date
  - Road names or other means of identifying location of the site.

Continued...

6. Preliminary and final drawings shall include the requirements listed in Item 5, Appendix C and also the following where applicable:
  - Site Plan with contours/ relevant levels, retention of trees and other vegetation and layout of proposed
  - Softscape plans – including
    - Plant species
    - Turf species
    - Planting details and schedule of quantities/ sizes
  - Hardscape Plans – including
    - Paving and other details;
    - Furniture and other infrastructure details; and
  - Irrigation Plans and related Specifications, Licences and Reports.

## 9 Document Information

### Document Details

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