

PSP 2.0

Beveridge North West Precinct Structure Plan

November 2024

VICTORIA
State
Government

vpa
Victorian Planning Authority

ACKNOWLEDGMENT OF COUNTRY

The Victorian Planning Authority acknowledges Victorian Aboriginal people as the First Peoples and Traditional Owners and Custodians of the land and water on which we rely.

We proudly acknowledge Victoria's Aboriginal communities and their rich culture and pay our respects to their Elders past and present. The VPA also recognises the intrinsic connection of Traditional Owners to Country and acknowledges their contribution in the management of land, water and resources.

We recognise and value the ongoing contribution of Aboriginal people and communities to Victorian life and how this enriches us. We embrace the spirit of Reconciliation, working towards the equality of outcomes and ensuring an equal voice.

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Precincts and Activity Centres

- precinct area
- national employment and innovation cluster
- Metropolitan Activity Centre - existing
- Metropolitan Activity Centre - future
- Activity Centre - existing and future
- education precinct
- health precinct
- industrial precinct - existing
- industrial precinct - future
- state-significant industrial precinct - existing
- state-significant industrial precinct - future

Transport

- transport gateway - major airport
- intermodal freight terminal (future)
- rail network
- train station
- tram network
- transport projects - potential future
- Outer Metropolitan Ring/E6 reservation

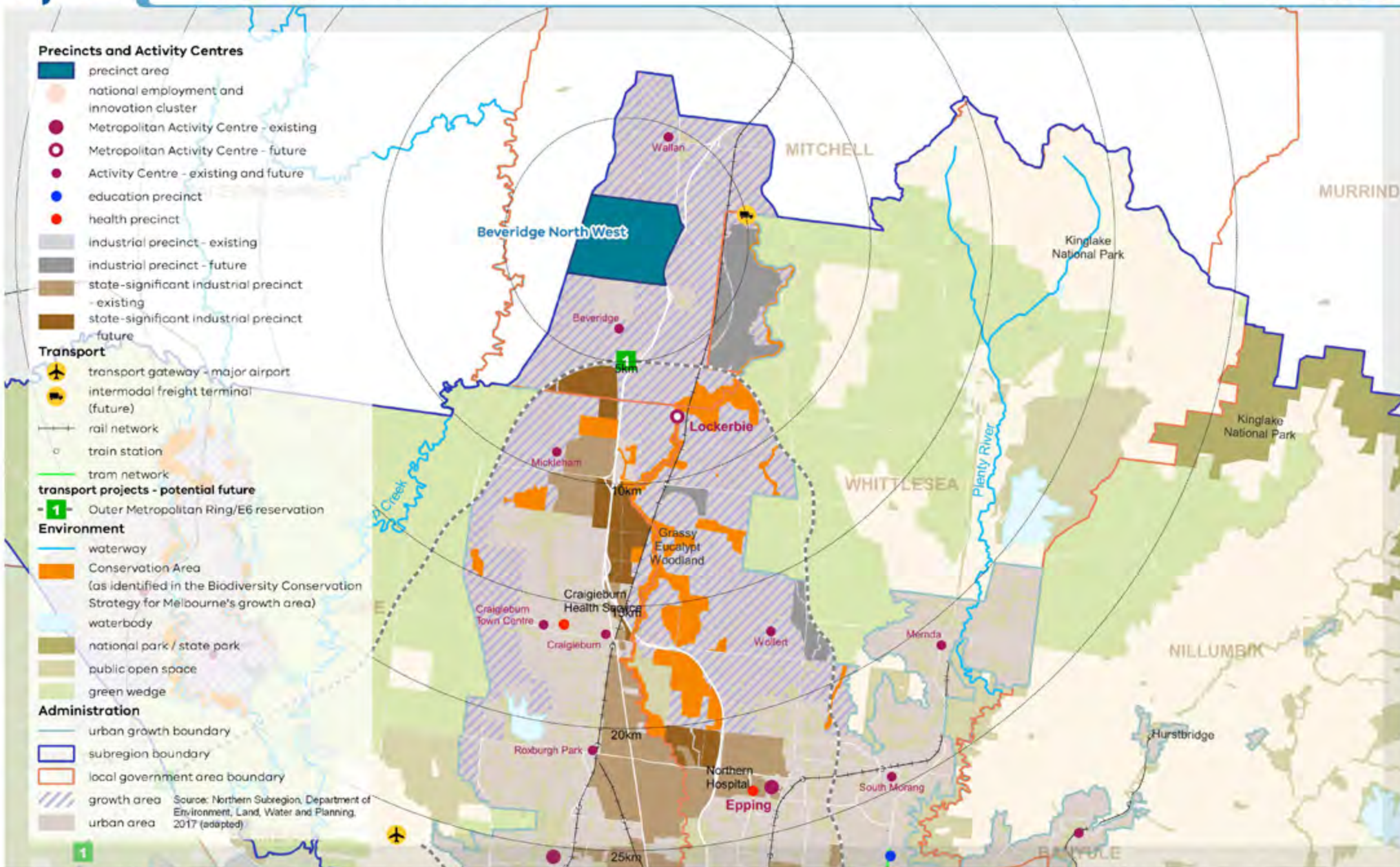
Environment

- waterway
- Conservation Area (as identified in the Biodiversity Conservation Strategy for Melbourne's growth area)
- waterbody
- national park / state park
- public open space
- green wedge

Administration

- urban growth boundary
- subregion boundary
- local government area boundary
- growth area
- urban area

Source: Northern Subregion, Department of Environment, Land, Water and Planning, 2017 (adapted)



1.0 INTRODUCTION

The Beveridge North West Precinct Structure Plan (the PSP) has been prepared by the Victorian Planning Authority (VPA) with the assistance of Mitchell Shire Council, Government agencies, service authorities and major stakeholders.

The PSP is a long-term plan for urban development. It describes how the land is expected to be developed, and how and where services are planned to support development.

Generally, the PSP:

- sets out plans to guide the delivery of quality urban environments in accordance with the Victorian Government guidelines
- enables the transition of non-urban land to urban land
- sets the vision for how the land should be developed, illustrates the future urban structure and describes the outcomes to be achieved by the future development
- acknowledges the precinct may develop in conjunction with a time-restricted quarry at WA 1473
- outlines the projects required to ensure that future residents, visitors and workers within the area can be provided with timely access to services and transport necessary to support a quality and affordable lifestyle
- sets out objectives, requirements and guidelines for land use, development and subdivision
- provides government agencies, the council, developers, investors and local communities with certainty about future development
- addresses the requirements of the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) in accordance with an endorsed program under Part 10.

The PSP is informed by:

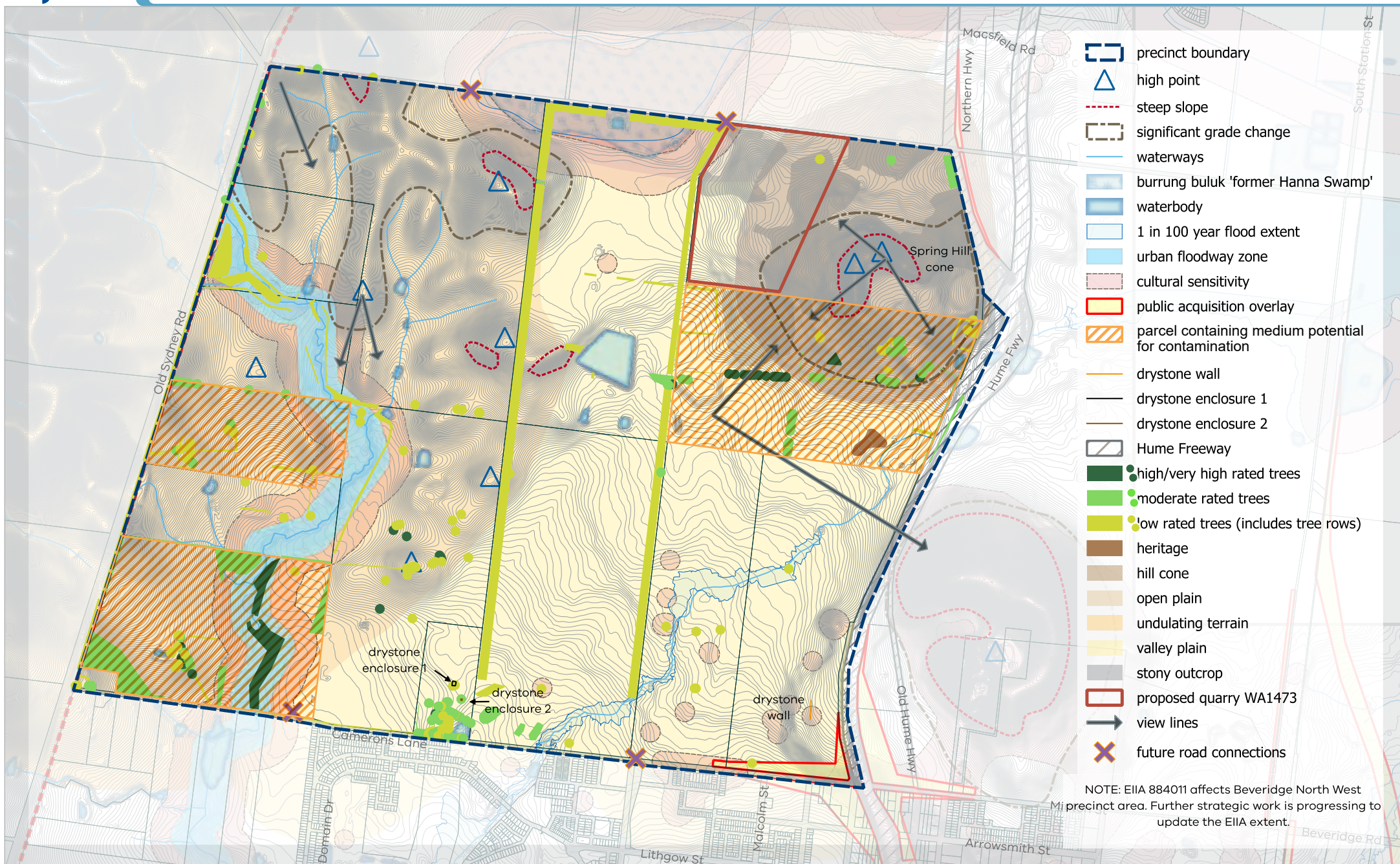
- *Plan for Victoria*
- *Victoria's Housing Statement*, The Decade Ahead 2024-2034
- *Plan Melbourne – Metropolitan Planning Strategy*, May 2017
- *The State Planning Policy Framework* as set out in the *Mitchell Planning Scheme*
- *The Growth Corridor Plans: Managing Melbourne's Growth* (Growth Areas Authority, June 2012)

- The Local Planning Policy Framework as set out in the *Mitchell Shire Planning Scheme*
- *The Biodiversity Conservation Strategy and Sub Regional Species Strategies for Melbourne's Growth Areas* (Department of Environment and Primary Industries, June 2013)
- *The Precinct Structure Planning Guidelines*.

The following planning documents have been developed in parallel with the PSP to inform and direct the future planning and development of the Precinct:

- The *Beveridge North West Infrastructure Contributions Plan* (ICP) requires development proponents to make a contribution toward infrastructure required to support the development of the Precinct
- The *Beveridge North West Background Report* (Background Report).

In preparing this PSP, the VPA has worked with relevant stakeholders to encourage innovative approaches to community engagement and affordable housing.



1.1 How to read this document

This PSP guides land use and development where a planning permit is required under Schedule 3 to the Urban Growth Zone (Clause 37.07 of the Mitchell Planning Scheme), or any other provision of the Mitchell Planning Scheme that references this PSP.

A planning application and subsequent planning permit must implement the outcomes of the PSP. The outcomes are expressed as the **VISION AND OBJECTIVES**.

Each element of the PSP contains **requirements** and **guidelines** as relevant.

Requirements must be adhered to in developing the land. Where they are not demonstrated in a permit application, requirements will usually be included as a condition on a planning permit whether or not they take the same wording as in the structure plan. A requirement may reference a plan, table or figure in the structure plan.

Guidelines express how discretion will be exercised by the responsible authority in certain matters that require a planning permit. If the responsible authority is satisfied that an application for an alternative to a guideline, implements the outcomes, the responsible authority may consider the alternative. A guideline may include or reference a plan, table or figure in the PSP.

Meeting these **Requirements** and **Guidelines** will implement the vision of the PSP.

Conditions that must be included in a planning permit are outlined in Schedule 3 to the Urban Growth Zone (UGZ) in the Mitchell Planning Scheme.

Development must also comply with other Acts and approvals where relevant e.g., the *Environment Protection and Biodiversity Conservation Act 1999* in the case of biodiversity or the *Aboriginal Heritage Act 2006* in the case of cultural heritage, amongst others.

Not every aspect of the land's use, development or subdivision is addressed in this structure plan. A responsible authority may manage development and issue permits as relevant under its general discretion.

1.2 Infrastructure Contributions Plan

Development proponents within Beveridge North West Precinct will be bound by the *Beveridge North West Infrastructure Contribution Plan* (the ICP). The ICP sets out requirements for infrastructure funding across the Beveridge North West Precinct.

The ICP will be incorporated in the *Mitchell Planning Scheme*.

Development proponents wishing to commence works prior to incorporation of this ICP may enter into agreements with Mitchell Council under Section 173 of the *Planning and Environment Act 1987* to expedite contributions.

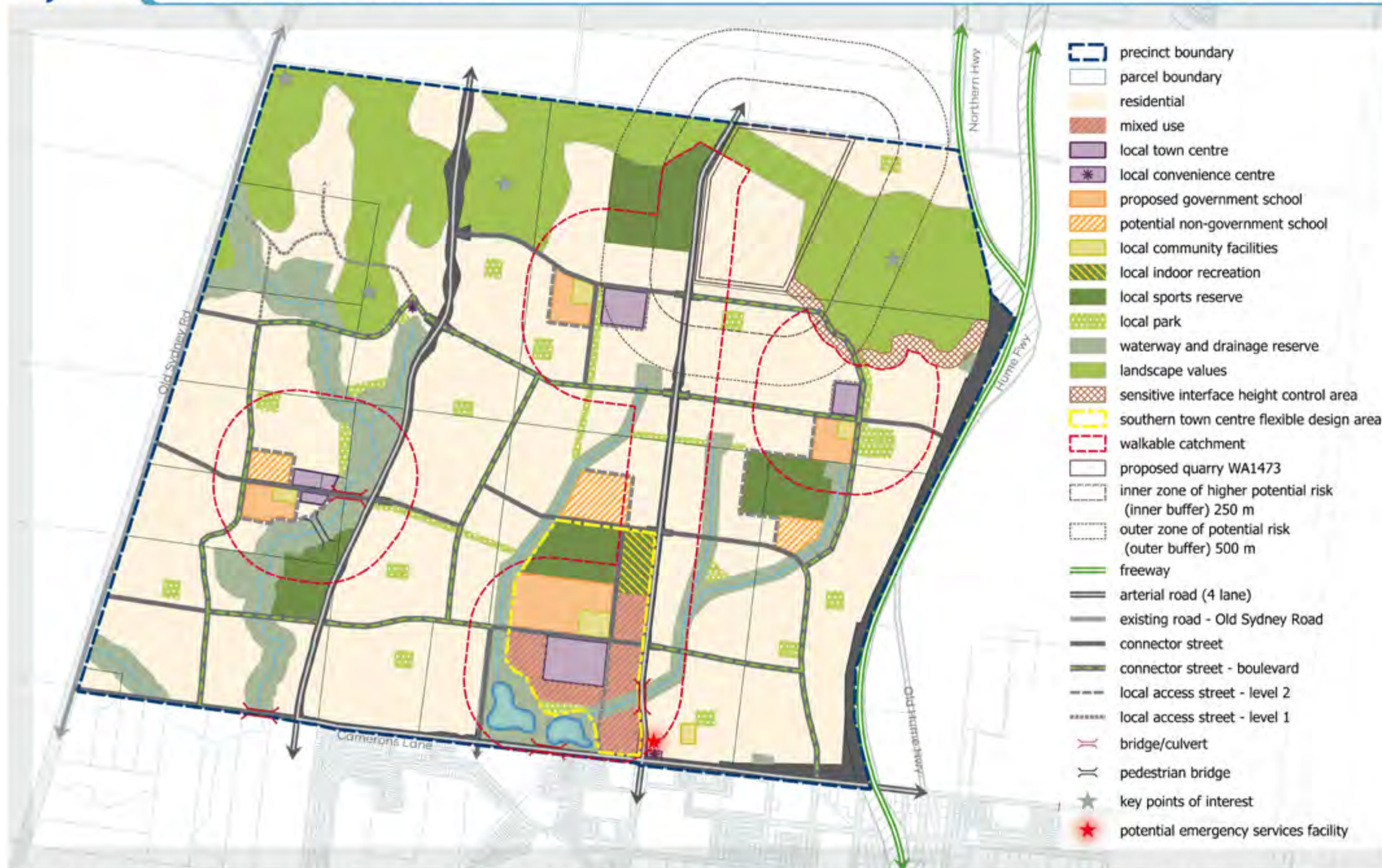
1.3 Background Information

The Beveridge North West PSP Background Report provides detailed background information relating to the precinct, including its local and metropolitan context, history, landform and topography, biodiversity, drainage, open space, transport infrastructure, employment and community facilities. The report also summarises various background technical studies that have informed the preparation of the PSP Land to which this PSP applies.

1.4 Land to which this PSP applies

Beveridge North West, PSP 1059, covers 1,279 hectares located approximately 40km north of the Melbourne CBD. The precinct is bounded by the Hume Freeway to the east, Camerons Lane to the south, Old Sydney Road to the west and Hadfield Road reservation to the north. The precinct is illustrated on Plan 2- Precinct Features.

The Beveridge North West precinct contains generous plains, gently sloping valleys, undulating hills inclusive of distinctive hilltops and remnant volcanic cones, while Kalkallo Creek flows through the western portion of the PSP. High quality native vegetation has been identified in the Beveridge North West portion of burring buluk (former Hanna Swamp). A basalt flow containing a high-quality hard rock resource has been identified to the west of Spring Hill.



2.0 OUTCOMES

2.1 Vision

The Beveridge North West PSP provides a strong framework for the delivery of a resilient community through the early delivery of facilities, flexibility in planning, sensitive response to the landscape and an innovative approach to the delivery of services.

The PSP will develop over an approximate 30-year duration. During the development of the precinct, there may be a quarry as per Works Authority 1473. The Planning Scheme limits any extraction works in any quarry to an extraction timeframe of 20 years. Following cessation of any quarry and rehabilitation to a residential standard, urban development will continue to develop as set out in the PSP.

The precinct will be defined by its high-quality residential neighbourhoods - located between ridgelines, prominent volcanic cones and rolling hills. A significant network of open spaces formed by waterways, hilltops and linear parks will connect the diverse residential neighbourhoods within the area. There is potential for the areas identified for drainage and conservation (including the hilltops, burring buluk and the waterways) to form part of any future regional parkland.

Beveridge North West will be home to resilient communities who will have early access to a range of facilities, including health care, education, recreation and community infrastructure. These will be located adjoining local town centres with the precinct anchored by a viable mixed-use town centre at the junction of the waterways and Camerons Lane. East of the Hume Freeway, the Beveridge Intermodal Freight Terminal (BIFT) is currently in the early stages of planning.

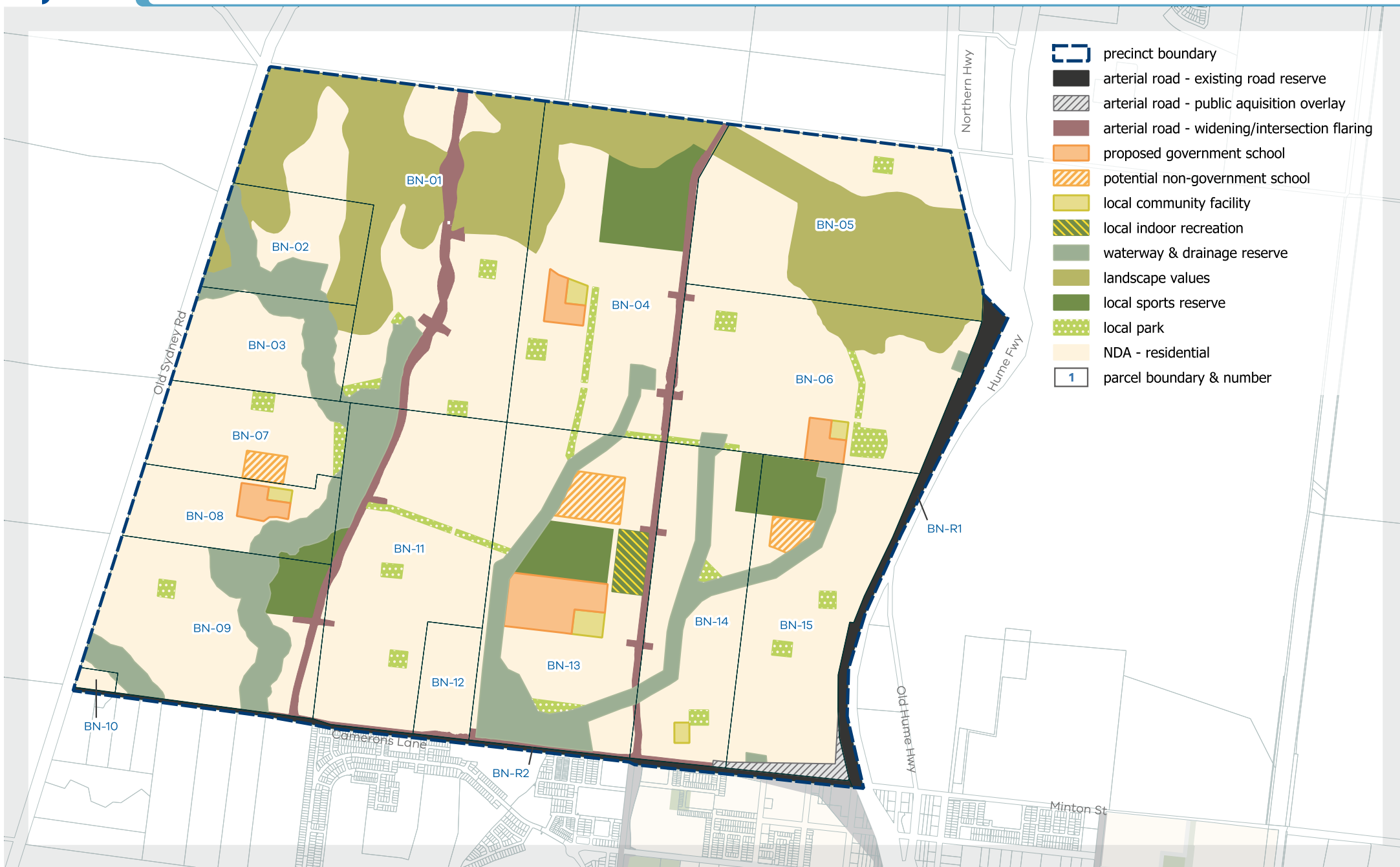
The Precinct will take full advantage of planned infrastructure, including an efficient connection to the Hume Freeway via the future construction of Camerons Lane Interchange and will be supported by a series of local arterial roads that can accommodate high frequency public transport. High amenity streets and trails will encourage people to cycle and walk to key local destinations. The orientation of the local road network will emphasise the visually important landscape features, particularly Spring Hill and the hill tops to the north. This will create a unique sense of place for future residents.

Future residents will enjoy genuine diversity of housing, which will range from conventional residential lots through to well-designed higher density housing near the town centres. The unique topography of the site offers the opportunity to provide bespoke housing, that responds to the landscape through design and orientation, on the hillsides.

The most valued parts of the landscape will be revived and enhanced through the rehabilitation and replanting of Kalkallo Creek and the hilltops, coupled with the construction of wetlands and water retention facilities on the open plains.

2.2 Objectives

KEY PSP OBJECTIVES	
01	Provide a framework for a high amenity and integrated urban environment that encourages a sense of place and community, as well as responds to the existing natural, cultural and built features.
02	Facilitate housing affordability and choice at densities that supports local services, access to jobs and sustainable transport options.
03	Support investment in an innovative and vibrant local and regional economy within a network of highly accessible activity and employment centres that support jobs and business activity.
04	Identify and guide timely delivery of essential adaptable and multi-purpose open space, community and other essential infrastructure to support development.
05	Facilitate 20-minute neighbourhoods by providing for an integrated transport network that supports active and public transport options, movement of goods and connections to jobs.
06	Facilitate safe, resilient, water sensitive, environmentally sustainable urban environments that respond to climate change and other hazards.
07	Provide appropriate transitions and interfaces with adjoining and existing land uses.

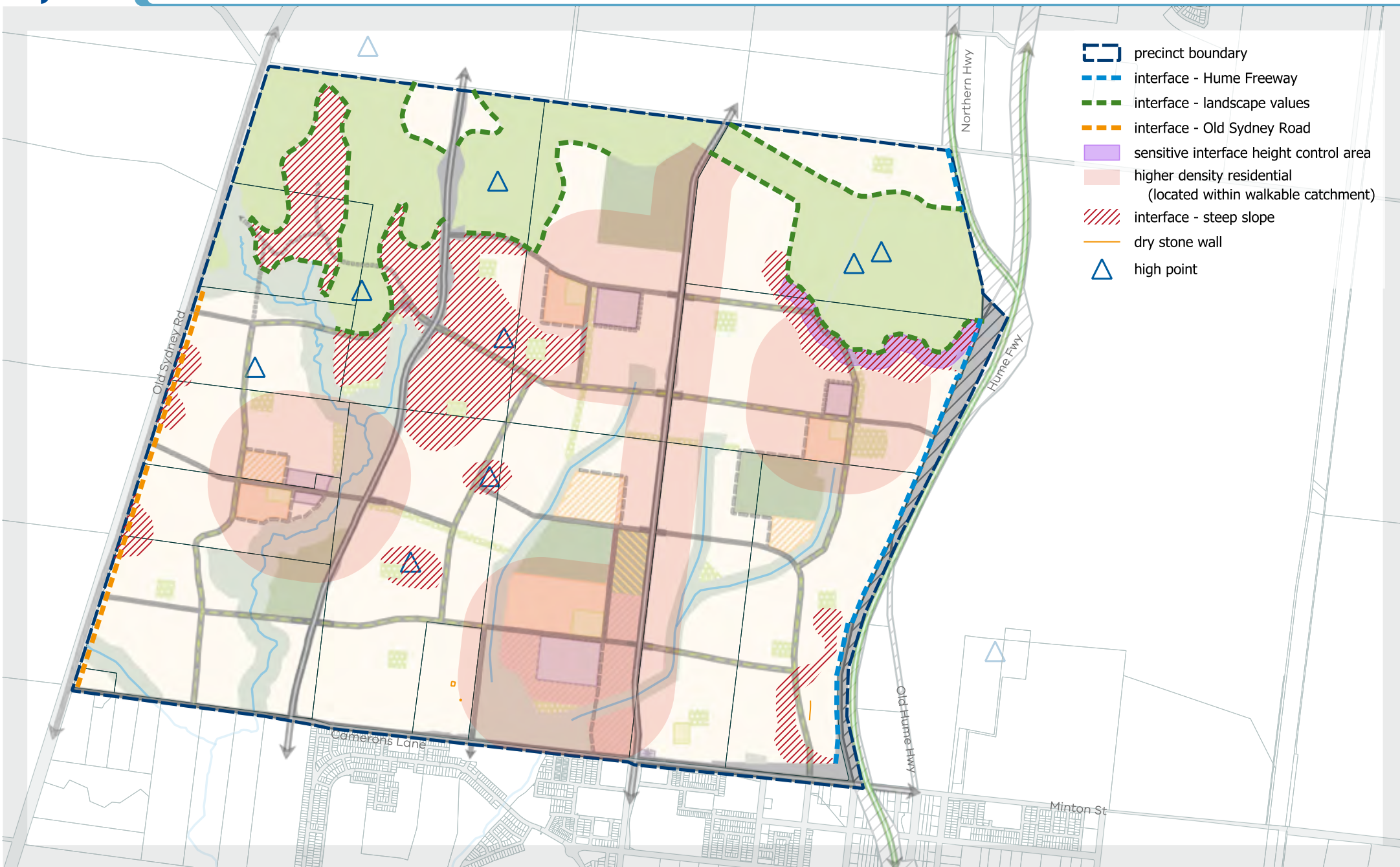


- precinct boundary
- arterial road - existing road reserve
- arterial road - public aquisition overlay
- arterial road - widening/intersection flaring
- proposed government school
- potential non-government school
- local community facility
- local indoor recreation
- waterway & drainage reserve
- landscape values
- local sports reserve
- local park
- NDA - residential
- parcel boundary & number

2.3 Precinct Land Use Budget

Table 1 Precinct land use budget

DESCRIPTION	PSP 1059		
	HECTARES	% OF TOTAL	% OF NDA
TOTAL PRECINCT AREA	1,279.35		
TRANSPORT			
Arterial Road - Existing Road Reserve	25.50	1.99%	3.32%
Arterial Road - Public Acquisition Overlay	4.35	0.34%	0.57%
Arterial Road - New / Widening / Intersection Flaring (ICP land)	34.97	2.73%	4.55%
SUB-TOTAL TRANSPORT	64.82	5.07%	8.44%
COMMUNITY & EDUCATION			
ICP Community Facilities	10.60	0.83%	1.38%
Proposed Government School	22.39	1.75%	2.91%
Potential Non-Government School	13.00	1.02%	1.69%
SUB-TOTAL COMMUNITY & EDUCATION	45.98	3.59%	5.99%
OPEN SPACE			
UNCREDITED OPEN SPACE & REGIONAL OPEN SPACE			
Waterway and Drainage Reserve	125.98	9.85%	16.40%
Landscape Values	195.26	15.26%	25.42%
SUB-TOTAL UNCREDITED OPEN SPACE & REGIONAL OPEN SPACE	321.24	25.11%	41.82%
CREDITED OPEN SPACE			
Local Network Park (ICP land)	23.92	1.87%	3.11%
Local Sports Reserve (ICP land)	55.20	4.32%	7.19%
SUB-TOTAL CREDITED OPEN SPACE	79.13	6.18%	10.30%
TOTAL ALL OPEN SPACE	400.37	31.29%	52.12%
TOTAL NET DEVELOPABLE AREA - (NDA) HA	768.18	60.04%	
TOTAL NET DEVELOPABLE AREA - RESIDENTIAL (NDA-R)	768.18	60.04%	



3.0 IMPLEMENTATION

3.1 Image, Character, Heritage and Housing

3.1.1 Image, character, landscape & heritage

REQUIREMENTS

R1

Subdivision layouts including road alignment, lot diversity and housing typologies must positively respond to the natural features of the area, including (but not limited to):

- topographical features and slopes
- landscape values
- Kalkallo Creek
- retained, high quality native vegetation portion of burrung buluk (former Hanna Swamp)
- rural landscape interface west of Old Sydney Road.

GUIDELINES

G1

Subdivision layouts and development should respond to and address the relevant provisions of the Urban Design Guidelines for Victoria.

G2

Subdivisions that retain lots around existing dwellings should be designed to ensure that the future subdivision of retained lots will appropriately integrate with the surrounding subdivision layout.

Lots should front (in order of priority where a lot fronts multiple elements):

G3

- public open space
- landscape areas
- local access streets
- connector roads
- arterial roads.

G4

Subdivision design should incorporate natural and constructed design elements which respond to local heritage, neighbouring land uses and topography to assist in place making and the achievement of a “sense of place”.

G5

Significant landscape features, such as high points, vegetation, open space and waterways, should be used as focal points for view lines along streets.

G6

Where possible, salvaged rocks should be incorporated into the design of waterways, retaining structures, fences and other landscape features.

G7

Landmark sites and precinct entry points where shown on Plan 2 should be planned, developed and landscaped to create a sense of arrival and entry.

G8

A consistent suite of lighting and furniture should be used across neighbourhoods, appropriate to the type and role of street or public space, to the satisfaction of the responsible authority.

G9

Subdivision design should respond sensitively to the visual setting and character of heritage places.

G10

Aboriginal and historic cultural heritage should be recognised through the design of public places, infrastructure and interpretive installations. Opportunity should be explored through cultural heritage interpretation trails along public path networks in areas of known historic cultural history or areas of Aboriginal cultural heritage sensitivity, in consultation with relevant stakeholders.

G11

Signage or interpretive opportunities should be integrated into the public realm to contribute to the knowledge and understanding of the local area’s Aboriginal cultural and historic cultural history.

Dry stone walls that are retained should:

G12

- be situated within public open space or a street reserve to the satisfaction of the responsible authority
- be incorporated into subdivision design to minimise disturbance to the walls (e.g., utilisation of existing openings for vehicle and pedestrian access)
- have a suitable landscape interface to minimise maintenance requirements (for example mulch, garden bed or gravel), which does not encourage public access immediately adjacent to the retained walls
- be checked by a suitably qualified professional for works required to preserve the structural integrity of the wall in a manner suitable for the future context
- retain any post and wire or post and rail elements, with any wire protruding beyond the vertical face of the wall reinstated to its original position or removed.

GUIDELINES

Any reinstatement or repair of dry stone walls should be undertaken by a suitably qualified professional and is to be consistent with the construction style of the original wall, with edges around wall openings made secure (cemented) to the satisfaction of the responsible authority. Reinstatement is to use stone from (in order of priority):

G13

- the original wall in that location (including fallen stone adjacent to the wall)
- a nearby section of the wall approved to be removed
- any adjacent land containing wall parts which can be recovered
- any walls approved for removal in the nearby area (including any stone which has been stockpiled by the responsible authority).

A list of suitably qualified professionals can be obtained from the responsible authority and the Dry Stone Walls Association of Australia.

3.1.2 Housing

REQUIREMENTS

R2

Subdivision for residential development must provide for a diverse neighbourhood character by providing a range of lot sizes and dwelling types in appropriate locations across the Precinct, including achieving minimum average densities as specified in Table 2. The minimum average densities specified in Table 2 only apply to the residential component of a mixed-use development.

R3

Development adjoining the Sensitive Interface Areas identified in Plan 5 must be developed in accordance with the outcomes specified in Table 3.

R4

Development must provide for active frontages to adjoining open space, landscape values areas, and waterway corridors.

GUIDELINES

Subdivision should deliver a broad mix of lots that are an appropriate size and shape to support the planned neighbourhood character of the precinct, as specified in Table 2, by:

G14

- Providing a range of lot sizes, widths, depths and densities
- Providing higher residential densities and more intensive building typologies in locations where they will:
 - support the viability and vibrancy of activity centres, access to community infrastructure and amenities
 - have good access to public transport and support walking and cycling
 - make a positive impact to planned neighbourhood character and identity.

Subdivision should provide a street separating private lots from adjoining open space, landscape value areas and waterway corridors. A street is to be provided for the waterway corridor adjacent to a proposed government school site. If not adjacent to a government school and if a street is not provided:

G15

- A "paper road" should be provided along the lot frontage that includes a footpath or shared path with a minimum dimension of 1.5 metres
- Lots should directly address the open space/waterway corridor and maximise opportunities for informal passive surveillance
- Vehicle access should be provided via a rear laneway.

All to the satisfaction of the responsible authority and Melbourne Water where adjacent to a waterway.

See Appendix 4.5 for open space interface guidance.

G16

An application for subdivision of land into residential lots or development of land for residential or mixed-use purposes should provide affordable housing as defined by the Planning and Environment Act 1987. The affordable housing should be located within walkable catchments and provide for a range of housing typologies to meet demonstrated local need.

GUIDELINES

Subdivision applications for super-lots identified for future medium density, high density, or integrated housing should demonstrate:

G17

- expected dwelling yield
- connections and active interfaces with adjacent streets, open space and waterways
- safe and effective internal vehicle and pedestrian circulation
- indicative treatments for sensitive interfaces, as identified in Plan 5.

Specialised housing forms, such as retirement living, or aged care should:

G18

- be integrated with adjoining development
- be accessible by public transport
- not present a barrier to movement through the surrounding road network
- be located within walkable catchments as shown on Plan 3.

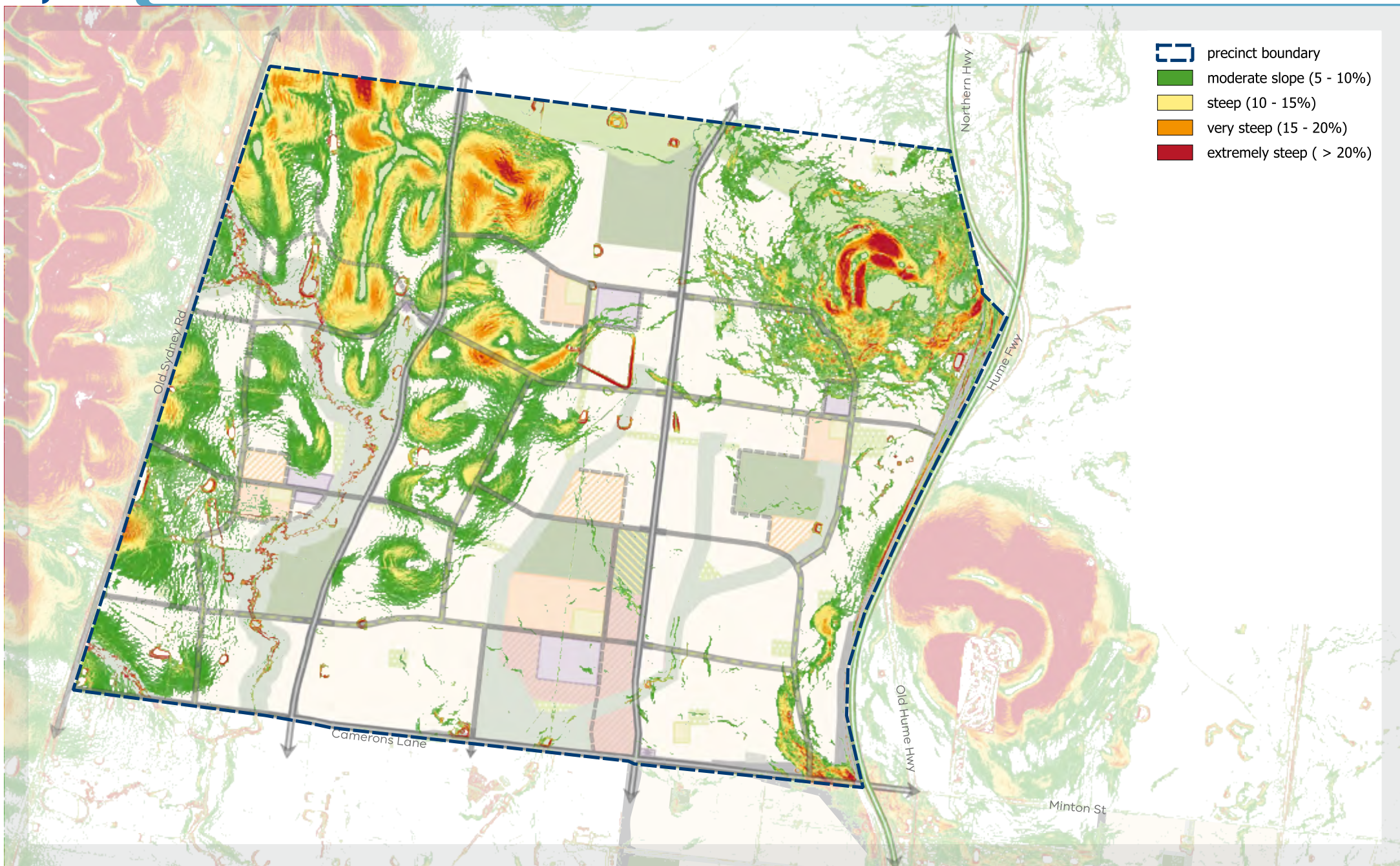
Table 2 Neighbourhood Design Guide

Note: The minimum average density provides guidance regarding the expected quantum of housing to be delivered within a development area. Applications for subdivision that do not meet the minimum average density but can demonstrate how the requirement will be achieved over time may be considered.

DEVELOPMENT AREA	PLANNED NEIGHBOURHOOD CHARACTER	MIN. AVG DENSITY (DW/NDHA)
Town Centre	Development will have an urban built character characterised by the greatest scale and intensity of built form within the precinct. Housing will generally comprise more intensive typologies with a form and scale that reinforces the town centres' sense of place and role as focal point for commercial and community activity.	25
Mixed use	The mixed-use area is anticipated to be used for primarily commercial and employment-based activities. Development will have an urban built character, characterised by a transition in scale and intensity between activity centres and residential areas. Where residential activities are proposed, housing will generally comprise more intensive typologies with a form and scale that makes a positive contribution to the vitality and vibrancy of town centres and supports the provision of public transport and community infrastructure.	25
Residential - Within walkable catchment	Development will have an urban neighbourhood character, characterised by buildings up to four storeys in height. Housing will comprise a variety of typologies, including low-rise apartments buildings, terraced homes and townhouses (including rear-loaded product), and detached dwellings.	25
Residential - Standard	Development will have a traditional suburban neighbourhood character characterised by buildings up to three storeys in height. Housing will generally comprise detached and semi-detached typologies, however more intensive forms of development such as terraced homes and townhouses may be provided in proximity to areas of high amenity, or where it can be demonstrated that a positive contribution will be made to neighbourhood character and identity.	18
Residential - Sloping Land	Development will have a variation in built form ranging from a natural/rural to traditional suburban character. Housing will generally comprise detached typologies using split-level, suspended or platform construction techniques. More intensive forms of development such as terraced homes may be provided where it can be demonstrated that the proposed response to landform will make a positive contribution to neighbourhood character and identity.	15
Residential - Sensitive Interface Area A - Old Sydney Road / Urban Growth Boundary	Development will have a rural landscape character generally characterised by larger residential lots. Housing will generally comprise detached typologies with sufficient setbacks and on-site landscaping to maintain the sense of an open and spaciousness environment at the interface of the urban growth boundary. More intensive forms of development such as terraced homes and townhouses may be provided in proximity to areas of high amenity, or where it can be demonstrated that a positive contribution will be made to neighbourhood character and identity.	12
Residential- Sensitive Interface Area B - Landscape	Development will have a natural landscape character generally characterised by larger residential lots. Housing will generally comprise detached typologies with sufficient setbacks and on-site landscaping to maintain the sense of an open and spaciousness environment, and to minimise adverse visual impacts into the Rural Conservation Zone. More intensive forms of development such as terraced homes and townhouses may be provided in proximity to areas of high amenity, or where it can be demonstrated that a positive contribution will be made to neighbourhood character and identity.	15.5
TOTAL AVERAGE DENSITY (Dw/NDHa)		20

Table 3 Sensitive Interface Area Outcomes

CRITERIA	Sensitive interface areas		
	A Old Sydney Road / Urban growth boundary	B Landscape values	C Hume Freeway
Depth of Interface	First rows of lots adjoining the interface area.	First row of lots adjoining the interface area.	First row of lots adjoining the interface area.
General	One dwelling per lot	-	Must meet the requirements of 'VicRoads Traffic Noise Reduction Policy, 2005
Building Setbacks and Interface	<ul style="list-style-type: none"> Lots should front onto Old Sydney Road Building Setbacks: <ul style="list-style-type: none"> - Minimum 10m from Old Sydney Road reserve. Minimum 3m from side boundaries. <p>Building height should not exceed 1 storey above ground.</p>	The height of buildings should not impact the view lines into the RCZ, which should be maintained at no more than 2 storeys (above ground).	Must provide an internal road adjacent to the acoustic noise wall as demonstrated in the freeway interface cross section – see Appendix 4.5.



3.1.3 Topography

REQUIREMENTS

R5

Subdivision of land with a slope greater than 10% must respond to and address the dwelling construction methods shown in Table 4. Alternative responses that demonstrate a contextually appropriate response to development on sloped land may also be considered.

Where retaining structures or changes to ground levels are necessary, they must be incorporated as a positive landscape or site feature by:

R6

- integrating retaining as part of the building design by including the level difference within the building where practicable
- retaining walls or changes in ground level over 1m in height should be attractively designed and landscaped, and stepped where practicable, to avoid visual dominance or overshadowing effects as viewed from the street or the boundary of the application area.

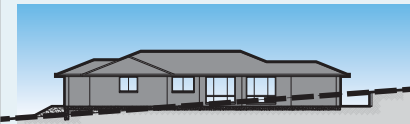
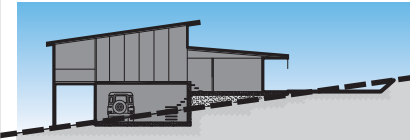
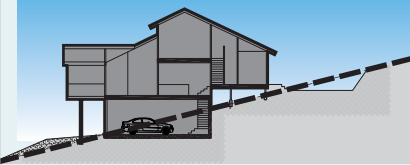
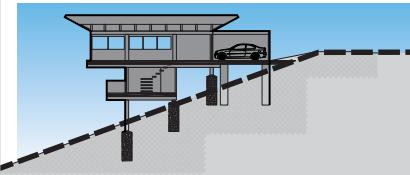
GUIDELINES

Any retaining structures within public and private spaces (except for those which are part of a building) should be:

G19

- no more than 1.0 metres in height between a dwelling and a street or public space, or where visible from a street or public space
- set back at least 1.0 metres from any building envelope
- staggered, with a minimum 0.75 metre distance between each stagger to allow for the inclusion of landscaping where cutting and filling is deeper than 1.0 metres
- positioned so that associated drainage infrastructure and structural foundation are fully located within the same lot.

Table 4 Sites on Sloping Land

<div> <div>EXTREME < 20°</div> <div>STEEP 14-18°</div> <div>MODERATE 6-12°</div> <div>FLAT 0 - 6°</div> </div>		<input checked="" type="checkbox"/> Single slab on ground <input checked="" type="checkbox"/> Split or multiple slab for slopes over 4° <input checked="" type="checkbox"/> Post and beam
		<input checked="" type="checkbox"/> Split or multiple slab <input checked="" type="checkbox"/> Post and beam
		<input checked="" type="checkbox"/> Split or multiple slab <input checked="" type="checkbox"/> Post and beam
		<input checked="" type="checkbox"/> Post and beam <input checked="" type="checkbox"/> Pole house

3.2 Town Centres & Employment

3.2.1 Town Centres

Table 5 Beveridge North West Town Centre Hierarchy

Internal town centre	Shop floor space	Commercial floor space	Location and uses
Southern LTC1	9,000m ²	2,700m ²	On the Eastern Arterial (Patterson Road/E14 Extension) that runs north-south and adjoins a planned mixed-use area, schools and open spaces. The Southern LTC1 is identified to be larger than the other three LTCs.
Eastern LTC2	3,300m ²	1,400m ²	East of the PSP area between the Eastern Arterial (Patterson Road/E14 Extension) and the Hume Freeway.
Northern LTC3	6,300m ²	2,700m ²	North of the PSP area between the Western Arterial and Eastern Arterial (Patterson Road /E14 Extension).
Western LTC4	6,300m ²	2,700m ²	West of the PSP area between the Western Arterial and Old Sydney Road to the west.
Local Convenience Centre 1	1000m ²	-	West of the PSP area on the Western Arterial and north-east of LTC4.
Local Convenience Centre 2	1000m ²		On the north eastern corner of the intersection between Camerons Lane and the Eastern Arterial.

R7

Proposals for subdivision and/or development within the Southern Town Centre Flexible Design Area) shown on Plan 3 must be designed in accordance with Table 6.

A Southern Town Centre Plan must be approved by the Responsible Authority for Southern Town Centre Flexible Design Area shown on Plan 3. The Southern Town Centre Plan must show:

- Town Centre Elements described at Table 6
- Street network, including hierarchy
- Proposed land uses, including open space network
- Active frontages
- Pedestrian and cycle network
- Integration between the Southern Town Centre Flexible Design Area and surrounding land.

R8

The Southern Town Centre Plan may be amended with the written consent of Responsible Authority.

A permit granted for the for use, subdivision or buildings and works on land within the Southern Town Centre Flexible Design Area must be generally in accordance with the approved Southern Town Centre Plan.

R9

Applications involving the development of all Local Town Centres and Local Convenience Centres must demonstrate how the proposed design has appropriately considered and responded to the Design Guidelines in Appendix 4.5 and 4.6, having regard to local context and the functional requirements of the proposed activity.

G20

Local town centres LTC2, LTC3 and LTC4 should be developed generally in accordance with the location shown on Plan 3 and should be consistent with the role and function of the centre outlined in Table 5 and Table 6.

G21

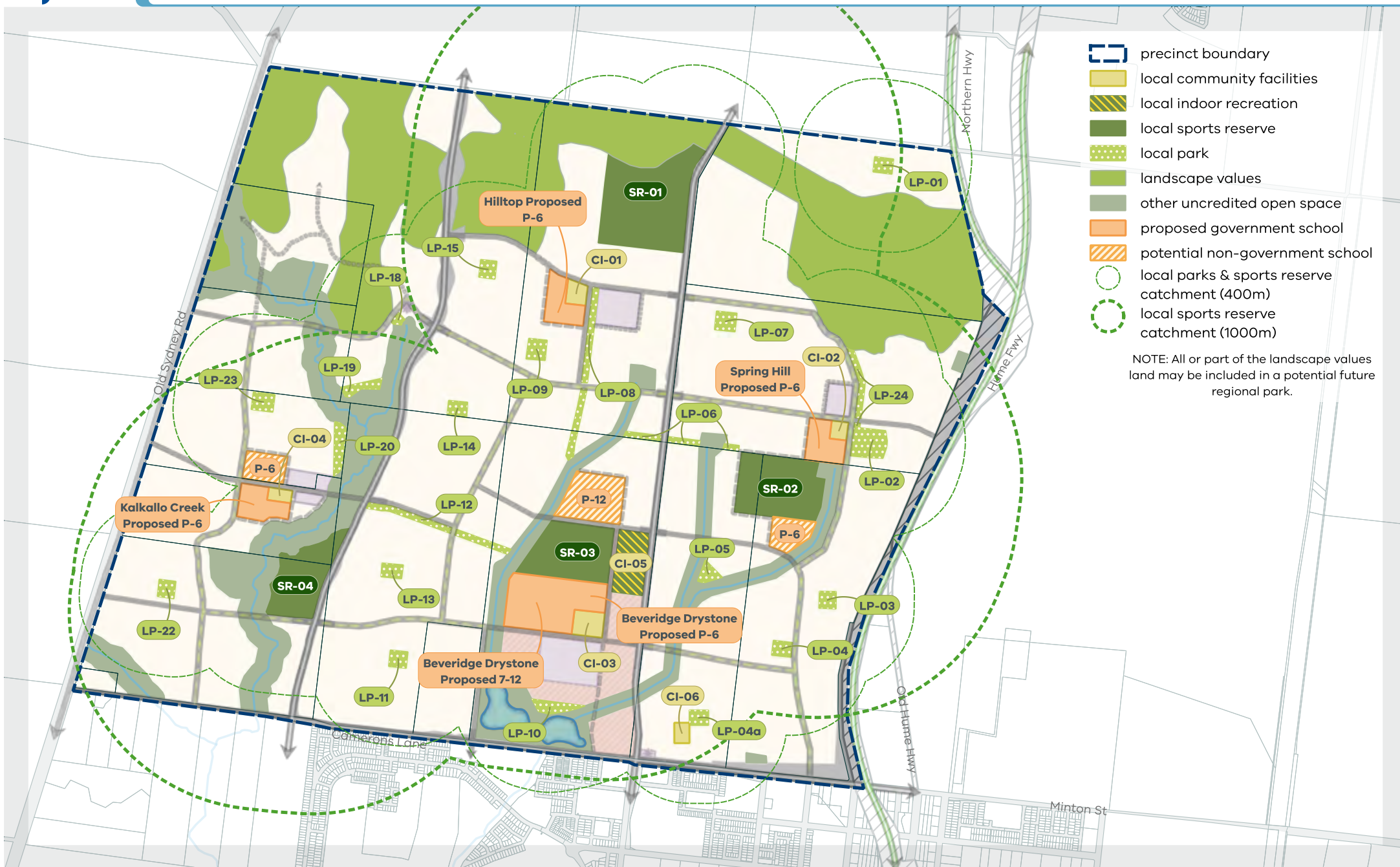
Subdivision layouts should provide for a range of lot configurations to cater for various uses, including small local enterprises.

G22

If proposed, local convenience centres should be located where indicated on Plan 3. Additional local convenience centres may be provided subject to demonstrating that they do not compromise the function and role of nearby Local Town Centres.

Table 6 Southern Town Centre Flexible Design Area – Performance Requirements & Guidelines

TOWN CENTRE ELEMENT	PERFORMANCE REQUIREMENTS	PERFORMANCE GUIDELINES
General	<ul style="list-style-type: none"> Must address all relevant elements of the Urban Design Guidelines of Victoria. 	<ul style="list-style-type: none"> Development should result in a walkable, pedestrian focused, mixed-use urban neighbourhood. Development should be structured to seamlessly integrate with surrounding land including the wetlands, waterways, and neighbourhoods. Development should be structured to create physical and visual connections with surrounding features and points of interest to reinforce the sense of place and identity. Development should prioritise active transport and facilitate the provision of safe and direct off-road walking and cycling connections.
Retail Core (Local Town Centre)	<ul style="list-style-type: none"> Must provide an area of 7 net developable hectares for the provision of the Local Town Centre. The land area may be reduced at the discretion of the council 	<ul style="list-style-type: none"> Should provide a core retail floor space of 9,000m². Should provide a commercial floor space of 2,700m². Development should deliver a compact, walkable street and block pattern. Development should include a high intensity, activated spine of retail and employment opportunities. Development should include a centrally located civic plaza or public space that provides a clear point of focus for the retail core.
Mixed Use	<ul style="list-style-type: none"> Must not exceed an area of 28 net developable hectares. This area may be increased or reduced to the satisfaction of the Responsible Authority. 	<ul style="list-style-type: none"> Development should result in a walkable street and block pattern that provides strong physical connections and a sense of integration with the retail and commercial core. Development should provide a mix of flexible lot sizes to encourage a broad range of business and commercial activities. Development should provide a transition in scale and intensity of development between the retail and commercial core and the residential areas.
Proposed Government School	<ul style="list-style-type: none"> Must provide an area of 8.4ha for the provision of a proposed government secondary school, and 3.5ha for the provision of a proposed government primary school. Alternatives may be considered based on-site specifics, subject to advice from DET and to the satisfaction of the relevant authority 	<ul style="list-style-type: none"> Should be integrated with active transport connections, including those provided by the waterways. Should be located adjacent to and integrated with the active open space. Should be orientated east west, with a dimension ratio of 1:1.5. Should have three road frontages, one of which should be a connector road. Residential subdivision to the west of the proposed school site should provide a street separating private lots from the adjoining waterways corridor where that corridor directly abuts the proposed government school site.
Active Open Space	<ul style="list-style-type: none"> Must provide an area of 11.8ha for the provision of active open space. 	<ul style="list-style-type: none"> Should be located adjacent to waterways and integrated to facilitate the provision of walking and cycling connections. Should be located adjacent to and integrate with the future government schools.
Community Facilities	<ul style="list-style-type: none"> Must provide an area of 2.0ha for the provision of a community facility. 	<ul style="list-style-type: none"> Should be located adjacent to and integrated with the proposed government primary school and the retail core.
Local Park (LP10)	<ul style="list-style-type: none"> Must provide an area of 1.13ha for local park 	<ul style="list-style-type: none"> Should act as a gateway and provide a transitional gateway between the 'retail core' and the wetlands.



3.3 Open Space, Community Facilities & Education

3.3.1 Open space and natural system

REQUIREMENTS

Trees in streets, civic places and the open space network must be provided in accordance with Mitchell Shire Council's Street and Park Tree Policy and:

- complement the existing native indigenous and exotic species
- be larger species to facilitate continuous canopy cover
- R10** • be planted in modified and improved soil to support tree establishment
- be appropriately sized to nature strips, nearby utilities and buildings
- suited to local conditions.

Or, be provided to the satisfaction of the responsible authority.

- R11** Existing high-quality vegetation must be retained within public space, including road reserves and open spaces, where safe and practicable.

- R12** The eastern and western sides of the Rural Conservation Zone must be linked by undeveloped open space.

- R13** A Concept Plan as per Figure 1 must be approved by the Responsible Authority for the burrung buluk concept plan area and its interface with the surrounding landscape values and abutting residential development areas. The plan must be designed in accordance with Table 7.

Figure 1 burrung buluk Concept Plan



GUIDELINES

- G23** Open space should be provided where shown on Plan 7 and as outlined in Table 8.
- G24** Public recreation and open space areas should be located in areas where they will make a positive contribution to neighbourhood character and identity and where they will support the delivery of diverse housing products.
- Alternative locations and configurations for credited open space with location flexibility, as illustrated on Plan 7, may be considered subject to:
- Open space being retained within the same landownership, unless otherwise agreed with the affected landowners
 - Walkable access as demonstrated on Plan 7 not being adversely impacted
- G25**
- Not diminishing the quality or usability of the space
 - Not adversely impacting on the overall diversity of the precinct open space network
 - Being equal to or more than the passive open space provision shown in table 8
 - Still being supported by the preferred path network outlined in Plan 10.
- The open space network should:
- Include a range of open space typologies and sizes
 - Maximise the amenity and value of service open space through the provision of shared paths, trails and other recreational elements
- G26**
- Maximise the usage of stormwater, through retention, infiltration and reuse where practicable
 - Respond to the values of adjoining open space, waterways, and Aboriginal and post-contact heritage
 - Provide flexible recreational opportunities that allow for the anticipated range of sporting reserves, and local parks and recreational uses required by the community.

Linear parks should be located and designed to:

- Enhance the wider walking and cycling network
 - Connect and integrate key neighbourhood destinations and landscape features
- G27**
- Support neighbourhood legibility and sense of place
 - Enhance the diversity of open space environments
 - Incorporate drainage depressions and seasonal wetlands where practical
 - Provide active frontages in accordance with R4
 - Avoid vehicle crossings.

Where a local park illustrated on Plan 7 spans multiple parcels, the first development proponent to lodge a permit application for land containing the park should prepare a master plan for the entire park. Consultation with all relevant landowners should be undertaken as part of the master plan preparation.

G28

G29 All open space and public landscaped areas should contain extensive canopy tree planting.

G30 Any fencing of open space should be low scale and visually permeable to facilitate public safety and surveillance.

G31 Appropriately managed and sensitively designed community access to conservation and landscape values areas should be provided where practicable, and where protection of the primary conservation and landscape values can be maintained.

Table 7 burrung buluk concept plan performance requirements and guidelines

ELEMENTS	PERFORMANCE REQUIREMENTS	PERFORMANCE GUIDELINES
Land Area	The land area of the concept plan must be identified and planned for generally in accordance with the Future Urban Structure.	The land should connect with the landscape values of the hilltops to create a natural corridor. Should the alignment of the Western Arterial Road create residual land to the west, this land should be considered for residential uses.
Aboriginal Cultural Heritage Values	The plan must consider the views of Wurundjeri Woi Wurrung to identify cultural heritage values.	The plan should implement Wurundjeri Woi Wurrung views about conservation and interpretation of Aboriginal cultural heritage values, following further review and investigation.
Ecological values	The plan must identify ecological values to be retained and / or rehabilitated along with appropriate hydrological responses.	The plan should detail the areas to be reinstated and protected and how they connect to and enhance the retained ecological values.
Landscape and urban design	Any urban design or landscape study prepared for the plan must consider the surrounding landform and ensure appropriate integration with the hills and any proposed regional park.	Urban design and landscaping principles should include consideration of: <ul style="list-style-type: none"> open space embellishments (such as seating, tables, shelters and other public amenities) movement and circulation new planting, whilst having regard to bushfire risks interfaces to and integration with (where appropriate) surrounding land uses.
Infrastructure	<p>The revision of the Western Arterial Road design must:</p> <ul style="list-style-type: none"> give effect to the elements in this table utilise standards identified by the Department of Transport and Planning be to the satisfaction of the Department of Transport and Planning. <p>The concept plan must accommodate Precinct Structure Plan infrastructure such as signalised pedestrian bridges and culverts, etc.</p>	<p>The concept plan should:</p> <ul style="list-style-type: none"> maximise pedestrian and cycling linkages with any proposed regional park facilitate delivery of an efficient road network.

3.3.2 Community Facilities & Education

REQUIREMENTS

- R14** Education facilities must have a minimum of two road frontages (three preferred), with one connector road abutting the school with a road easement wide enough to allow for school bus movement while accommodating on-street parking and two-way traffic movement.
- R15** Any connector road or access street abutting a community or education facility must be designed to achieve slow vehicle speeds and provide designated pedestrian crossing points in the vicinity of the school site.

GUIDELINES

- G32** Any lot created for a government school site should be designed to the satisfaction of Department of Education, including meeting the minimum site dimensions as outlined in the *Victorian Government School Site Selection Criteria*.
- G33** Education, community facilities and sports reserves should be co-located and accessible by active and public transport routes and provide active street frontages.
- G34** Subdivision and development should facilitate integration of schools, kindergartens, sports reserves and community facilities where they are co-located and promote:
- integration with neighbouring facilities to maximise efficiencies through the sharing of car parking and other complementary infrastructure
 - out-of-hours use, street activation and permeability
 - safe and convenient pedestrian and cyclist shared path access.
- G35** Educational, community or civic infrastructure not shown on Plan 3 should be located within or proximate to a town centre, local convenience centre, community hub or council community building, as appropriate.
- G36** Emergency services should have access to the arterial road network to maximise coverage and reduce response times.
- G37** Public health and justice services should be located within or adjacent to a community hub or town centre and with access to public transport.

Where the responsible authority is satisfied that land shown as a non-government school site is unlikely to be used for a school at ultimate development of the PSP, that land must be used for an alternative purpose that is compatible with the surrounding land uses and the provisions of the applied zone.

G38

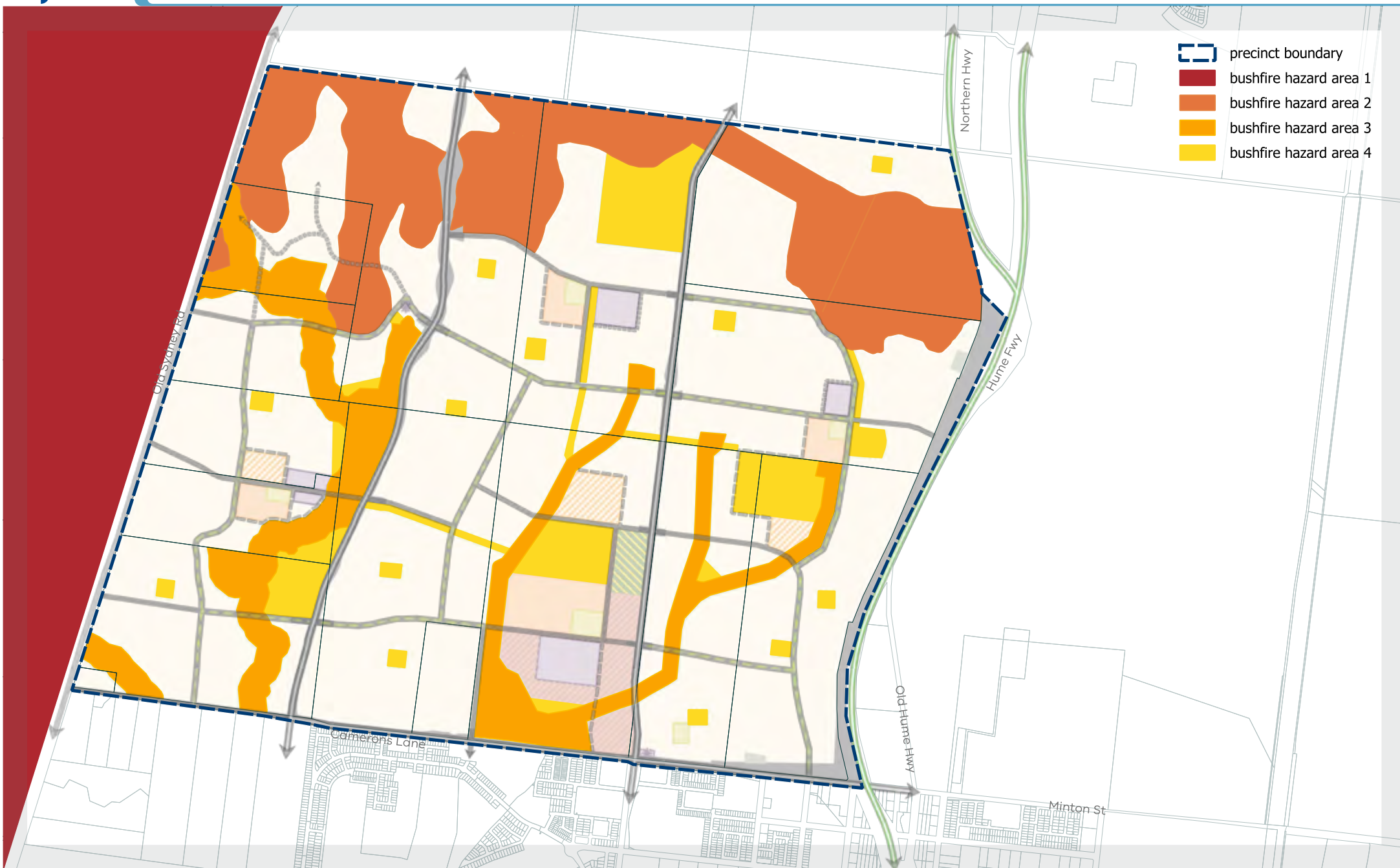
Justification should be provided in accordance with the VPA's guidance note titled *Development of Non-Government School Sites for an Alternative Purpose*.

G39

The indicative layout of community facilities and open space as illustrated in Plan 7 may be altered to the satisfaction of the relevant responsible authorities.

Table 8 Credited Open Space Delivery Guide

PARK ID	AREA	TYPE	LOCATIONAL ATTRIBUTES	RESPONSIBILITY
LP-01	0.75	Local Park	Passive open space located to the north of landscape values area (Spring Hill Cone).	Mitchell Shire Council
LP-02	2.51	Local Park	Passive open space to protect aboriginal heritage site, adjacent boulevard connector street and Local Town Centre.	Mitchell Shire Council
LP-03	0.75	Local Park	Passive open space, central to the surrounding residential community.	Mitchell Shire Council
LP-04	0.75	Local Park	Passive open space, adjacent to the intersection of two connector roads, central to the surrounding residential community.	Mitchell Shire Council
LP-04a	0.75	Local Park	Passive open space, central to the surrounding residential community.	Mitchell Shire Council
LP-05	0.74	Local Park	Passive open space, located between two drainage corridors.	Mitchell Shire Council
LP-06	1.29	Local Park	Linear passive open space running east-west. Connects LP-09, two drainage corridors and SR- 02.	Mitchell Shire Council
LP-07	1.0	Local Park	Passive open space, central to the surrounding residential community.	Mitchell Shire Council
LP-08	2.64	Local Park	Linear passive open space running north-south, connects drainage and Northern Local Town Centre LTC-3	Mitchell Shire Council
LP-09	1.00	Local Park	Passive open space central to surrounding residential community.	Mitchell Shire Council
LP-10	1.13	Local Park	Passive open space, located at the southern edge of the Southern Local Town Centre LTC-1, abutting drainage reserve, or as otherwise agreed to through the development of the Southern Town Centre Layout Plan.	Mitchell Shire Council
LP-11	0.75	Local Park	Passive open space, central to surrounding residential community.	Mitchell Shire Council
LP-12	2.20	Local Park	Linear passive open space linking Southern Local Town Centre LTC-1 and Western Local Town Centre LTC-4.	Mitchell Shire Council
LP-13	0.75	Local Park	Passive open space central to surrounding residential community.	Mitchell Shire Council
LP-14	0.75	Local Park	Passive open space, adjacent to connector street boulevard and central to surrounding residential community.	Mitchell Shire Council
LP-15	0.75	Local Park	Passive open space located at proximity to landscape values area (Hilltops Reserve), central to surrounding community.	Mitchell Shire Council
LP-18	0.25	Local Park	Linear passive open space, connection landscape values area (Hilltops Reserve) and drainage corridor.	Mitchell Shire Council
LP-19	0.89	Local Park	Passive open space located between drainage corridor and Kalkallo Creek corridor.	Mitchell Shire Council
LP-20	1.36	Local Park	Passive open space, abutting the Kalkallo Creek corridor.	Mitchell Shire Council
LP-22	0.75	Local Park	Passive open space, central to surrounding residential community.	Mitchell Shire Council
LP-23	1.0	Local Park	Passive open space, central to surrounding residential community.	Mitchell Shire Council
LP-24	1.15	Local Park	Linear passive open space connects LP-02 and landscape value areas (Spring Hill Cone).	Mitchell Shire Council
SR-01	20.01	Sports Reserve	Northern active open space bordered by RD-03 (west), RD-04 (east) and Northern Local Town Centre LTC-3 (south).	Mitchell Shire Council
SR-02	13.34	Sports Reserve	Eastern active open space, adjacent to drainage corridor, abutting two schools (north and south).	Mitchell Shire Council
SR-03	11.80	Sports Reserve	Southern active open space, adjacent to drainage corridor, abutting two schools.	Mitchell Shire Council
SR-04	10.05	Sports Reserve	Western active open space, located between the Kalkallo Creek corridor (west) and RD-03 (east).	Mitchell Shire Council



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3.4 Biodiversity and Bushfire Management

3.4.1 Biodiversity

NOTE: Operation of Commonwealth Environmental Laws:

The Department of Climate Change, Energy, the Environment and Water has granted an approval for urban development in Melbourne's Growth Corridors under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

This approval covers the Beveridge North West Precinct. Provided the conditions of this approval are satisfied, individual assessment and approval under the EPBC Act is not required.

NOTE: Native vegetation requirements are specified at Clause 52.17 and its schedule in this planning scheme. This plan must be read in conjunction with those provisions.

If no native vegetation is proposed to be retained within the precinct, a Native Vegetation Retain and Remove Plan is not required, all native vegetation within the precinct will be subject to the Clause 52.17 exemption.

GUIDELINES

G40 All vegetation outside of a bushfire hazard area shown on Plan 8 should be managed to ensure a low risk of bushfire.

G41 Where practicable, existing vegetation should be retained, protected and enhanced, and indigenous revegetation undertaken to provide habitat and movement corridors for local fauna.

G42 The layout and design of waterways, wetlands and retarding basins (including the design of paths, bridges and boardwalks, and the stormwater drainage system) should integrate with any future proposed regional park, biodiversity and natural systems to the satisfaction of Melbourne Water and other relevant responsible authorities.

3.4.2 Bushfire Management

R16 Vegetation within bushfire hazard areas shown on Plan 8 must be managed in accordance with Table 9.

R17 Development adjoining bushfire hazards shown on Plan 8 must be setback in accordance with Table 9.

Where a setback from a bushfire hazard area is required by Table 9, unless otherwise agreed by the Responsible Authority and relevant fire authority, vegetation within the setback must be managed as follows:

- Grass must be short cropped and maintained during the declared fire danger period
- All leaves and vegetation debris must be removed at regular intervals during the declared fire danger period
- Within 10 metres of a building, flammable objects must not be located close to the vulnerable parts of the building

R18

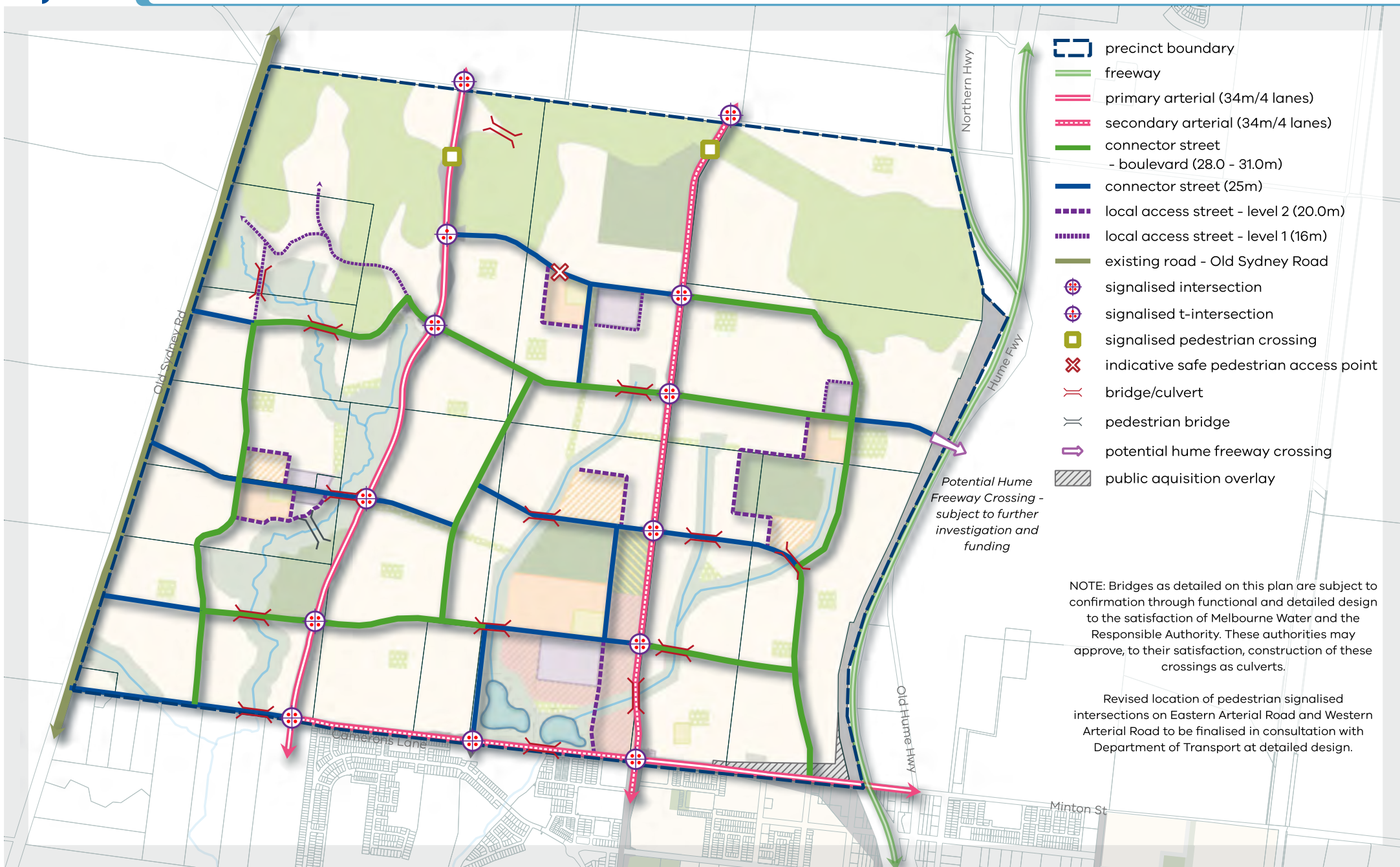
- Plants greater than 10 centimetres in height must not be placed within 3m of a window or glass feature of the building
- Shrubs must not be located under the canopy of trees
- Individual and clumps of shrubs must not exceed 5 sq. metres in area and must be separated by at least 5 metres
- Trees must not overhang or touch any elements of the building
- The canopy of trees must be separated by at least 2 metres
- There must be a clearance of at least 2 metres between the lowest tree branches and ground level.

GUIDELINES

- G43** All vegetation outside of a bushfire hazard area shown on Plan 8 should be managed to ensure a low risk of bushfire.
- G44** Subdivision adjoining a bushfire hazard area should include a publicly accessible perimeter road.
- G45** Subdivision should include a network of streets that provide multiple evacuation routes away from bushfire risks and areas of bushfire hazard.
- G46** Where a setback is required from a bushfire hazard, the setback should be provided on public land where practical.
- G47** All fencing adjoining Bushfire Hazard areas 1, 2 & 3 shown on Plan 08 should be made from non-combustible materials.
- G48** Lot design adjoining bushfire Hazard Area 2, shown on Plan 08 should allow for the provision of a static water supply of 2,500 litres for personal firefighting where practical.
- G49** Landscape design and plant selection in open spaces, including waterways and drainage corridors, should not increase bushfire risk.

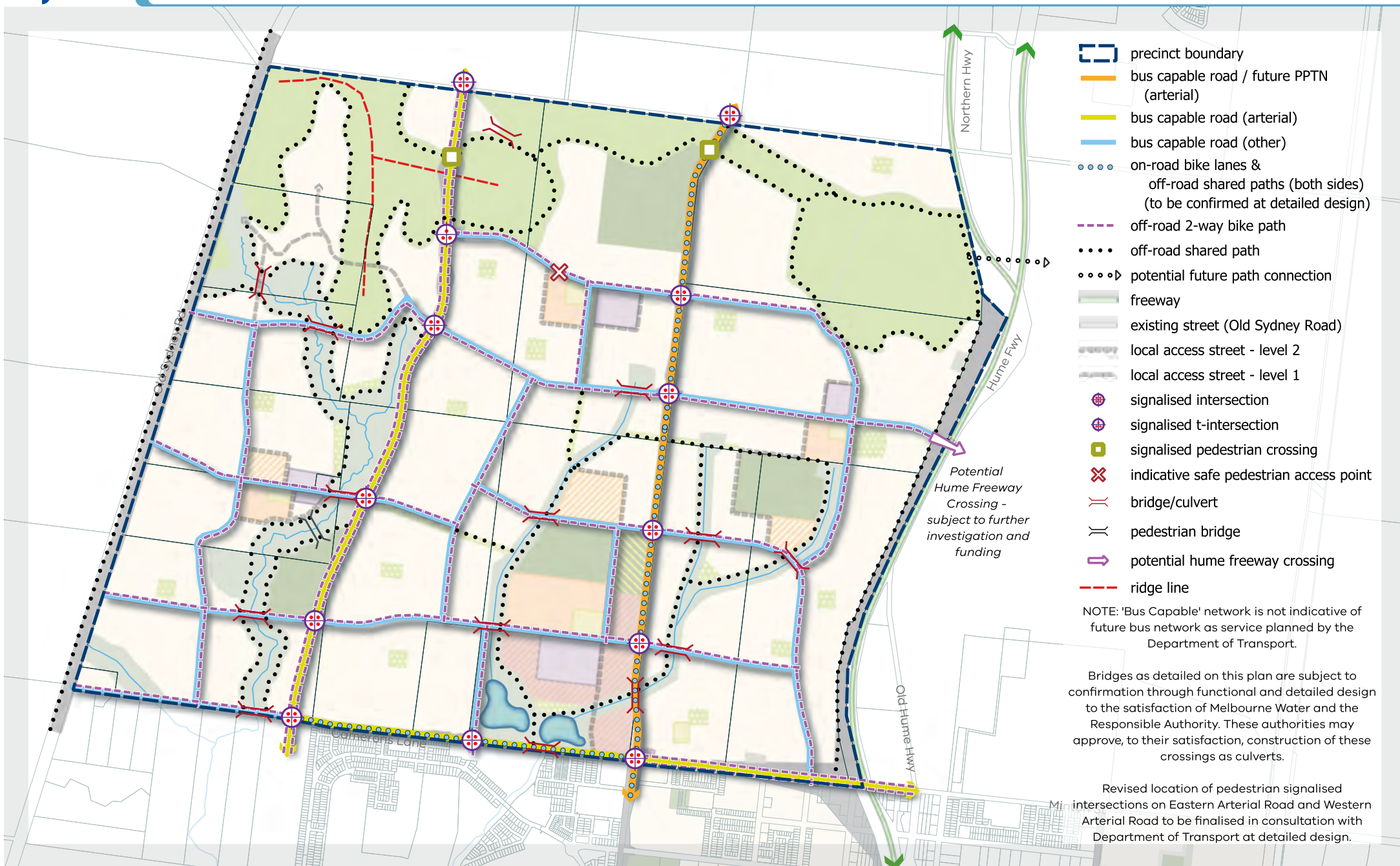
Table 9 Bushfire Hazard Vegetation Management & Setback Requirements

	Bushfire hazard area 1	Bushfire hazard area 2	Bushfire hazard area 3	Bushfire hazard area 4 and streetscapes
Vegetation management class	Woodland	Grassland	Low threat	Low threat
Setback Distance from Bushfire Hazard Area	33m	19m	0m	0m



NOTE: Bridges as detailed on this plan are subject to confirmation through functional and detailed design to the satisfaction of Melbourne Water and the Responsible Authority. These authorities may approve, to their satisfaction, construction of these crossings as culverts.

Revised location of pedestrian signalised intersections on Eastern Arterial Road and Western Arterial Road to be finalised in consultation with Department of Transport at detailed design.



3.5 Transport & Movement

3.5.1 Public Transport

REQUIREMENTS

R19

Any Road nominated in Plan 10 as a potential public transport route must be constructed (including partial construction where relevant) in accordance with the corresponding cross section in the PSP and the Department of Transport and Planning's guidance for public transport and land use development, to the satisfaction of the responsible authority.

GUIDELINES

G50

Bus stop facilities should be located in close proximity to town centres and key activity generating land uses such as schools, sports fields and employment areas.

G51

The street network should be designed to ensure all households have direct and convenient walking access to public transport services.

3.5.2 Walking & Cycling

GUIDELINES

G52

Location of walkways or pedestrian and cycle paths in addition to those described through the standard cross sections should consider the need for appropriate lighting and passive surveillance.

G53

The alignment of off-road bicycle paths must be designed for cyclists travelling up to 30km/hr.

G54

In addition to waterway pedestrian crossings shown on Plan 10, development proponents should provide waterway crossings at intervals no greater than 400m or corresponding with all perpendicular through roads or pedestrian and cycle paths.

3.5.3 Street Network

Design of all subdivisions, streets and arterial roads must provide:

- a permeable, direct and safe street network prioritising walking and cycling
- safe and convenient crossing points of connector roads and local streets at all intersections and on key desire lines as well as crossing waterways
- safe pedestrian crossings of arterial roads at all intersections, at key desire lines, and on regular intervals appropriate to the function of the road and public transport provision
- safe and convenient transition between on- and off-road bicycle networks
- convenient access to regional and local points of interest and destinations for effective integration with neighbouring properties, parkland and sports reserves
- direct and convenient walking access to public transport services.

R20

R21

Road networks and street types must be designed and developed to an urban standard generally in accordance with the cross sections in Appendix 4.4: Street Cross Sections, unless otherwise agreed by the relevant authority.

Street trees to be provided on both sides of all roads and streets (excluding laneways) at regular intervals appropriate to tree size at maturity, unless otherwise agreed by the responsible authority.

R22

Average Interval	Tree Size
8 – 10 metres	Small trees (less than 10 metre canopy)
10– 12 metres	Medium trees (10 – 15 metre canopy)
12 – 15 metres	Large trees (canopy larger than 15 metres)

REQUIREMENTS

Western Arterial Road construction designs must minimise visual impacts on *burrung buluk* and the Creek Side Hills Character Area located in the Rural Conservation Zone. Potential mitigation options including, but not limited to:

- Tree planting along the road alignment where appropriate
- Intervening vegetation screening between the road and viewpoints where appropriate
- Planting on cut batters and fill areas
- The layout and design of appropriate fittings to avoid artificial light spill on *burrung buluk* and other areas identified as landscape values in the PSP.

Designs must include any relevant recommendations from a Cultural Heritage Management Plan.

Note: Creek Side Hills Character Section

R23

GUIDELINES

G55

Slip lanes should be avoided in areas of high pedestrian activity and only provided at intersections between connector streets and arterial roads where they are necessitated by high traffic volumes but with pedestrian priority crossings.

G56

Cul-de-sacs should be avoided where practical.

G57

The frequency and impact of vehicular crossovers on verges of connector roads should be minimised through the use of a combination of:

- rear loaded lots with laneway access
- vehicular access from the side streets
- combined or grouped crossovers
- increased lot widths.

G58

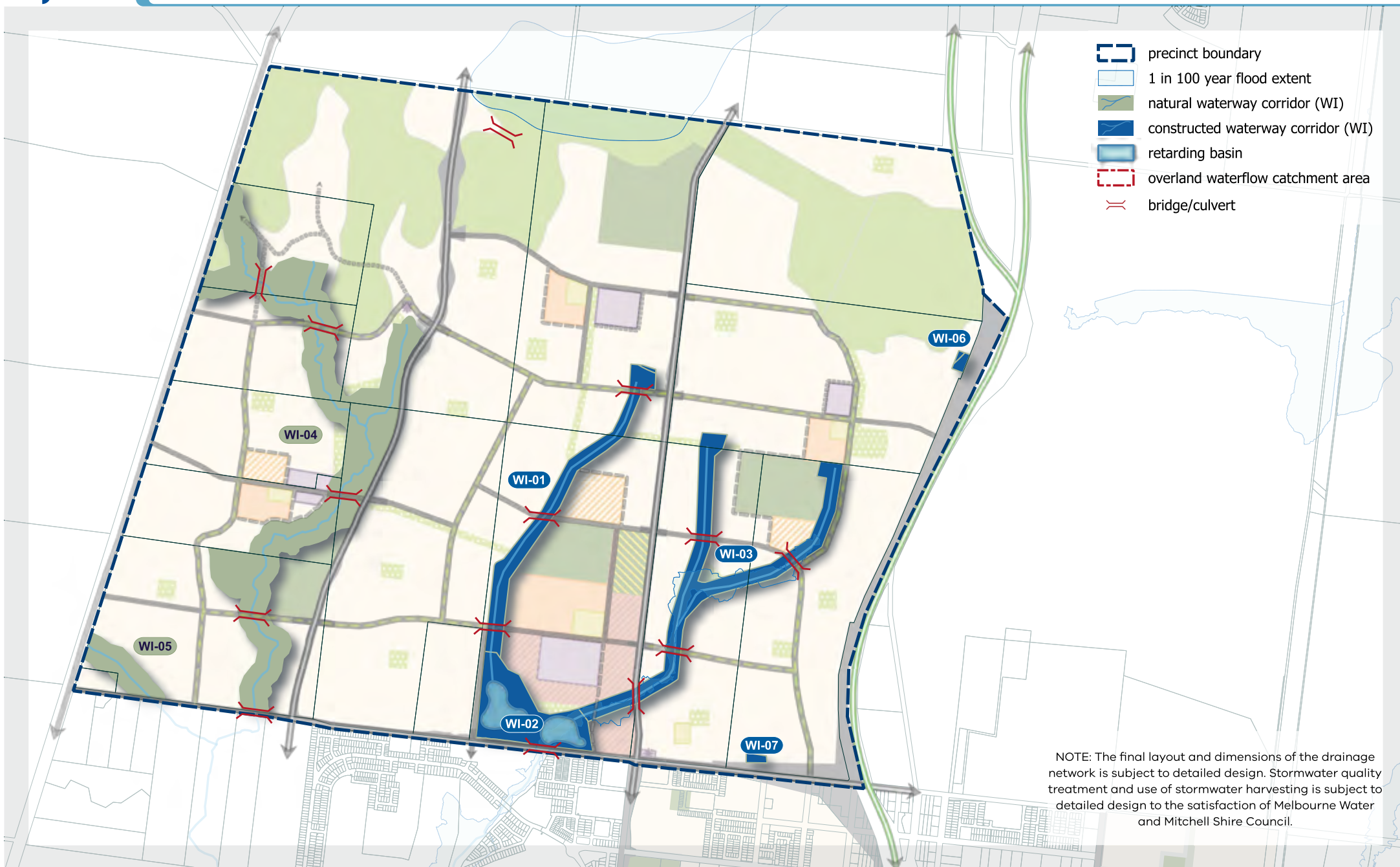
All signalised intersections should be designed having regard to the working document *Guidance for Planning Road Networks in Growth Areas* November 2015 (as updated), to the satisfaction of the Department of Transport and Planning.

A variety of cross sections should be utilised in subdivision layouts, and in some instances on arterial roads, to create differentiation, placemaking and neighbourhood character.

Alternative cross sections should ensure that:

G59

- Minimum required carriageway dimensions are maintained to ensure safe and efficient operation of emergency vehicles on all streets as well as buses on connector streets
- The performance characteristics of standard cross sections as they relate to pedestrian and cycle use are maintained
- Relevant minimum road reserve widths for the type of street are maintained, unless otherwise approved by the responsible authority.



- precinct boundary
- 1 in 100 year flood extent
- natural waterway corridor (WI)
- constructed waterway corridor (WI)
- retarding basin
- overland waterflow catchment area
- bridge/culvert

NOTE: The final layout and dimensions of the drainage network is subject to detailed design. Stormwater quality treatment and use of stormwater harvesting is subject to detailed design to the satisfaction of Melbourne Water and Mitchell Shire Council.

3.6 Integrated Water Management & Utilities

3.6.1 Integrated Water Management

REQUIREMENTS

R24

Development must give effect to the relevant policies and strategies being implemented by the responsible authority, Melbourne Water and Yarra Valley Water, including any approved integrated water management plan. Specific consideration should be made for the Strategic Outcomes for IWM and enablers endorsed by the Yarra IWM Forum.

R25

Stormwater conveyance and treatment must be designed to avoid or mitigate the risk of erosion from sodic and/or dispersive soils to the satisfaction of Melbourne Water and the responsible authority.

Waterway and Drainage Reserves as indicated on Plan 11 and as detailed in the Kalkallo Creek DSS are subject to confirmation through functional and detailed design to the satisfaction of Melbourne Water. Changes to waterway corridor widths may be considered once functional designs and any supporting background work has been completed.

Note: Waterway and Drainage Reserves indicated on this plan and as detailed in the Kalkallo Creek DSS are subject to confirmation through functional and detailed design to the satisfaction of Melbourne Water.

R26

Final designs and boundaries of wetlands, retarding basins, stormwater quality treatment infrastructure, and associated paths, boardwalks, bridges, and planting, must include appropriate treatments to provide protection for dispersive soils where these are present and be designed to the satisfaction of both the responsible authority and Melbourne Water.

R27

Development staging must provide for the delivery of ultimate waterway and drainage infrastructure, including stormwater quality treatment, and consider opportunities for early establishment of waterways. Where this is not possible, development proposals must demonstrate how any interim solution adequately manages and treats stormwater generated from the development and how this will enable delivery of an ultimate drainage solution, to the satisfaction of Melbourne Water and the responsible authority. Development staging and interim solutions must avoid or mitigate the risk of erosion from sodic and/or dispersive soils.

R28

Stormwater runoff from the development must meet the performance objectives of the *CSIRO Best Practice Environmental Management Guidelines* for Urban Stormwater prior to discharge to receiving waterways and as outlined on Plan 11, unless otherwise approved by Melbourne Water and the responsible authority.

Proposals that exceed the performance objectives will be considered to the satisfaction of the relevant authority.

Applications must demonstrate how:

- Waterways and integrated water management design enable land to be used for multiple recreation and environmental purposes
- Overland flow paths and piping within road reserves will be connected and integrated across property/parcel boundaries
- Melbourne Water and the responsible authority freeboard requirements for overland flow paths will be adequately contained within the road reserves
- Relevant Integrated Water Management (IWM) requirements of this PSP will be achieved to the satisfaction of the retail water authority, including the supply of recycled water where required by the relevant water authority.

R29

GUIDELINES

G60

Subdivision and development in areas identified as being affected by sodic and/or dispersive soils should be managed to avoid or mitigate the potential risk of erosion, both in the master planned design response to the subdivision, during construction phase, and on an ongoing basis.

G61

Stormwater runoff in areas identified as being affected by sodic and/or dispersive soils should be designed to manage the potential risk of erosion.

Potential management methods may include but are not limited to:

- Widening the buffer distances between the core riparian zone and the outside vegetated buffers that allows sufficient tolerances for channel migration
- Diversion of water away from sodic and/or dispersive materials
- Minimising potential convergence and/or ponding of surface flows
- Compacting to reduce pore spaces and minimise water movement through material
- Physical and chemical soil ameliorants
- Maintenance of topsoil across undisturbed land, preferably with grasses to provide surface soil stability and root anchorage
- Minimise the amount of time land is exposed (e.g., by staging development)
- Ensure that culverts and drains excavated into dispersive subsoils are capped with non-dispersive topsoil, gypsum stabilised and vegetated.

G62

The design and layout of roads, road reserves, and public open space should optimise water use efficiency and long-term viability of vegetation and public uses through the use of stormwater infiltration, overland flow paths, Water Sensitive Urban Design initiatives such as street swales, rain gardens and/or locally treated storm water for irrigation to contribute to a sustainable and green urban environment.

G63

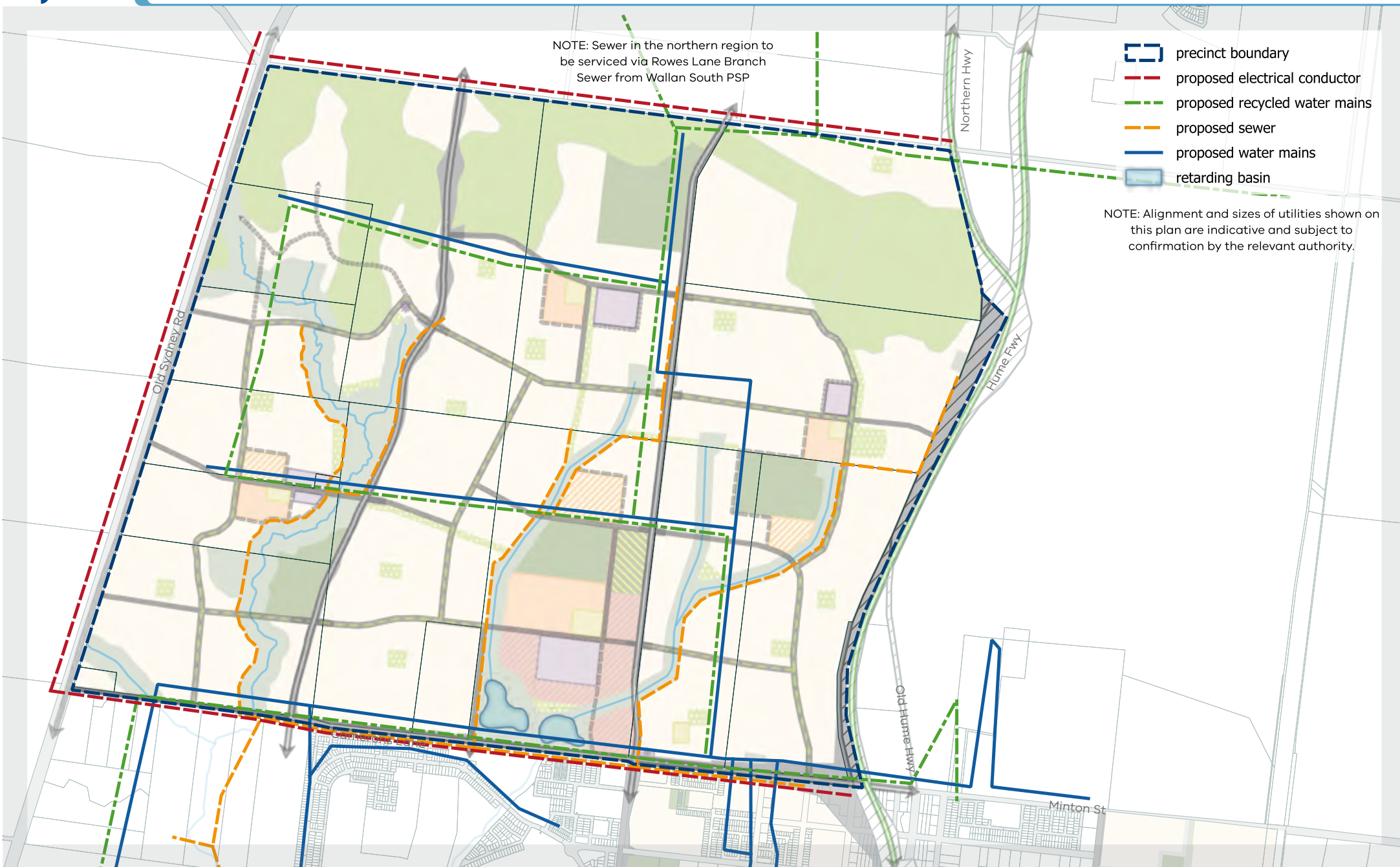
Where practical, and where primary waterway or conservation functions are not adversely affected, land required for integrated water management initiatives should be co-located with the precinct open space and recreation system and as depicted on Plan 7 to the satisfaction of the Responsible Authority.

Table 10 Water Infrastructure

REF	ASSET	LOCATION	AREA (HA)	RESPONSIBILITY
WI-01	Constructed waterway	Centrally located within the precinct, running adjacent to the connector street.	13.30	MWC
WI-02	Retarding Basin/ Wetlands	Centrally located within the precinct, adjacent to Camerons Lane.	15.37	MWC
WI-03	Constructed waterway	Located to the east of the precinct running north south.	23.08	MWC
WI-04	Natural Waterway (Kalkallo Creek)	Located to the west of the precinct running north south.	67.44	MWC
WI-05	Natural Waterway	Located on the south western corner of the precinct.	5.73	MWC
WI-06	Retarding Basin/ Wetlands	Located on east edge of precinct, south of Spring Hill Cone.	0.60	MWC
WI-07	Retarding Basin/ Wetlands	Located on southern edge of precinct, adjacent to Cameron's Lane interchange.	0.45	MWC

(Note: The areas identified in this table are subject to change/confirmation during the functional and detailed design stage to the satisfaction of Melbourne Water and the responsible authority.)

MWC Melbourne Water Corporation



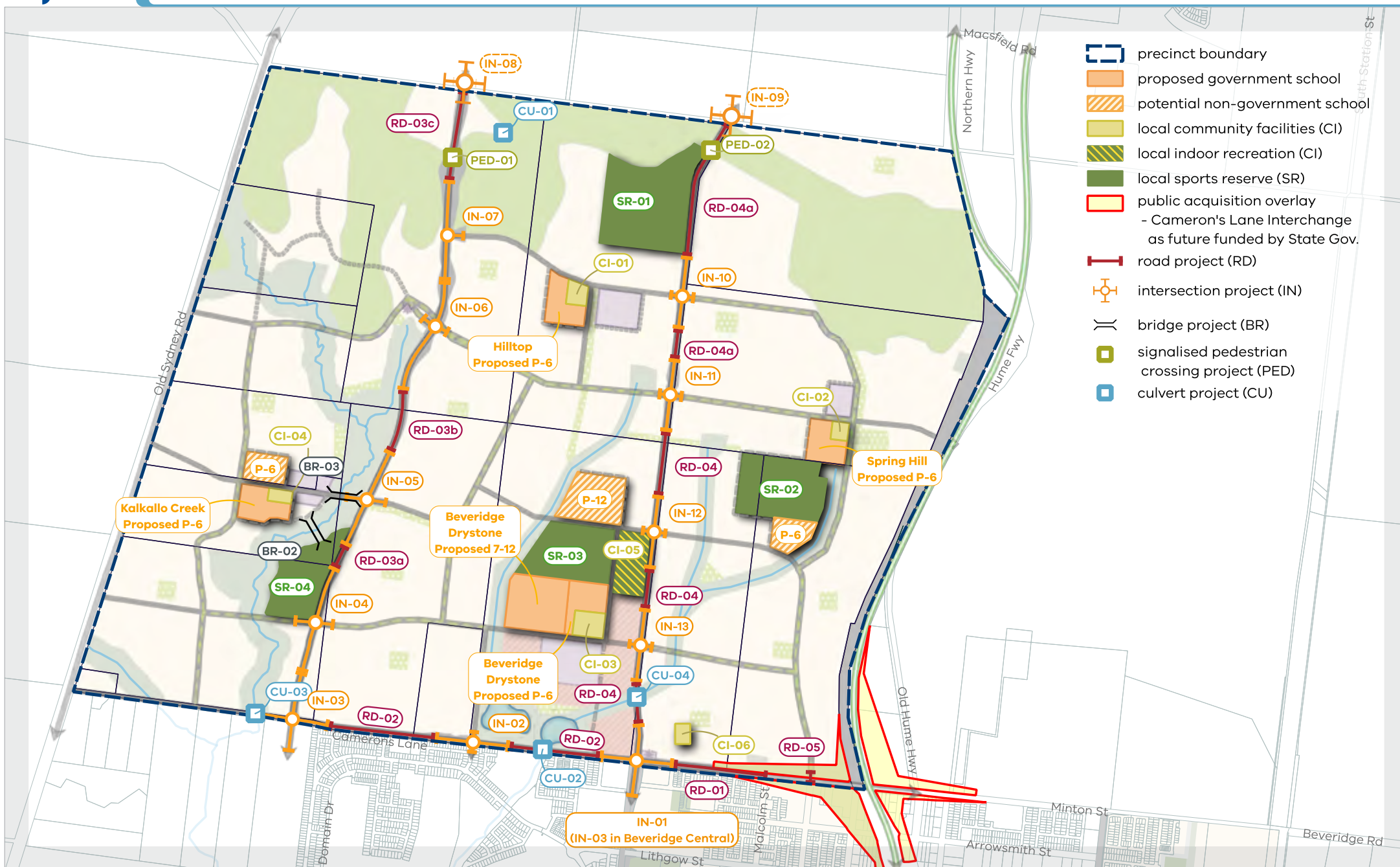
3.6.2 Utilities

REQUIREMENTS

- R30** All existing above ground electricity cables (excluding substations and cables with voltage 66kv or greater) must be placed underground as part of the upgrade of existing roads or subdivision works.
- R31** All new electricity supply infrastructure (excluding substations and cables with voltage 66kv or greater) must be provided underground.
- R32** Above ground utilities must be identified at the subdivision design stage to ensure effective integration with the surrounding neighbourhood, to minimise amenity impacts and be designed to the satisfaction of the relevant authority. Where utilities cannot be avoided in public open space, the land required to accommodate that infrastructure will not be counted as contributing to public open space requirements specified and will be additional to the areas designated in Table 8.

GUIDELINES

- G64** The delivery of underground services should be coordinated, located and bundled (utilising common trenching) to facilitate tree and other planting within road verges.
- G65** Utilities should be placed outside of landscape values areas, natural waterway corridors or on the outer edges of these corridors in the first instance. Where services cannot avoid crossing or being located within a landscape values area or natural waterway corridor, they must be located to avoid disturbance to existing waterway values, native vegetation, significant landform features and heritage sites, to the satisfaction of Melbourne Water and the responsible authority.
- G66** All new above-ground utilities, including temporary utilities, should be located outside of key view lines and screened with vegetation, as appropriate.
- G67** Trunk services should be placed along the general alignments shown on Plan 12, subject to any refinements as advised by the relevant servicing authorities including Department of Education.
- G68** Design and location of underground services should be guided by Appendix 4.8.
- G69** Utilities should generally be located within the road reserve. Where this is not practical, easements to place utilities at the rear of lots may be considered.



3.7 Precinct Infrastructure Plan & Development Staging

3.7.1 Development Staging

REQUIREMENTS

Development staging must be generally in accordance with Plan 13 (Precinct Infrastructure Plan), Plan 14 (Infrastructure and Development Staging Plan) and Appendix 4.3 (Precinct Infrastructure Plan table) and must provide for the timely provision and delivery of:

- arterial road reservations
- connector streets and connector street bridges
- street links between properties, constructed to the property boundary
- on- and off-road pedestrian and bicycle network paths
- essential infrastructure
- land for community infrastructure, sports fields and local open space
- connection of the north-south arterial network between Camerons Lane and Hadfield Road where practicable.

R33

GUIDELINES

G70 The staging of development should provide for the early delivery of community facilities to the satisfaction of the responsible authority.

Staging of development should be determined largely by the development proposals on land within the precinct and the availability of infrastructure services. Development applications should demonstrate how the development will:

- integrate with adjoining developments, including the timely provision of roads and path connections, to a practical extent
- provide open space and amenity to new residents in the early stages of the development, where relevant
- provide sealed road access to each new allotment
- deliver any necessary trunk service extensions, including confirmation of the agreed approach and timing by the relevant service provider
- avoid and minimise impacts to BCS conservation areas with regard to the location of essential and other services.

G71

G72

Sports fields, community facilities, local parks and playgrounds should be delivered as early as possible within each neighbourhood and may be delivered in stages.

G73

Infrastructure projects identified in the Precinct Infrastructure Plan at Appendix 4.1 should be delivered as per the timing priority identified in the timing column of Appendix 4.3.

Where infrastructure is proposed to be delivered outside ahead of the sequence identified in Appendix 4.3, the onus is on the developer to fund the infrastructure works as 'Works In Kind'.

Note:

Project delivery timing outlined in Appendix 4.3 is indicative and subject to periodic review by the relevant responsible authority.

Development staging should have regard to:

- proximity to existing or proposed development fronts or serviced land
- proximity to significant existing public transport infrastructure or public transport service
- proximity to existing or committed community infrastructure, such as schools
- proximity to new or existing arterial or connector road infrastructure
- its role in facilitating delivery of the above infrastructure.

G74

Staging that meets alternative criteria to the above may be considered by the responsible authority where an applicant satisfactorily demonstrates that development will not be isolated from basic and essential infrastructure and services.

3.7.2 Subdivision Works

REQUIREMENTS

Subdivision of land within the PSP must provide and meet the cost for all local infrastructure, other than that provided for within the Beveridge North West ICP. This includes (but is not limited to):

- connector roads and local streets, including Old Sydney Road at the time of abutting subdivision
- local bus stop infrastructure (where locations have been agreed in writing by Public Transport Victoria)
- landscaping, including canopy tree planting, of all existing and future roads and local streets
- intersection works and traffic management measures along arterial roads, connector streets, and local streets
- council approved fencing and landscaping (where required) along arterial roads and reserves
- shared pedestrian and bicycle paths along local arterial roads, connector roads, utilities easements, local streets, waterways and within local parks including bridges, intersections, and barrier crossing points
- bicycle parking
- appropriately scaled lighting along all roads, major shared and pedestrian paths, and traversing public open space
- improvements to local parks and open space to the satisfaction of the Responsible Authority (refer to open space delivery below)
- local drainage system and water sensitive urban design (WSUD) features
- local street or pedestrian path crossings of waterways unless outlined as the responsibility of another agency in the Precinct Infrastructure Plan
- infrastructure as required by utility service providers including water, sewerage, drainage (except where the item is funded through a Development Services Scheme), electricity, gas, and telecommunications
- construction of shared paths along waterways and open space
- remediation and / or reconstruction of dry-stone walls where required.

R34

All public open space (where not otherwise provided via the Beveridge North West ICP) must be finished to a standard that satisfies the requirements of the responsible authority prior to the transfer of the public open space, including but not limited to:

- removal of all existing and disused structures, foundations, pipelines, and stockpiles
- basic levelling including the supply and spread of minimum 75mm topsoil and subsoil if required on the proposed areas of open space to provide a stable free draining surface
- clearing of rubbish, weeds and rocks, levelled, topsoiled and grassed with warm climate grass (unless conservation reserve requirements dictate otherwise)
- provision of water tapping, potable and recycled water connection points
- sewer, gas and electricity connection points must also be provided to land identified as sports reserve
- planting of trees and shrubs (with drought tolerant species)
- adequate protection of existing trees that are to be retained including exclusion zones as appropriate
- vehicular exclusion devices (fence, bollards, or other suitable method)
- maintenance access points
- construction of minimum 1.5-metre-wide pedestrian paths around the perimeter of the reserve, connecting and linking into any other surrounding paths or points of interest, except where shown as a shared path on Plan 10
- installation of park furniture including barbeques, shelters, tables, local scale play grounds and other local scale play elements such as half basketball courts, hit-up walls, skate park with associated amenities, rubbish bins and appropriate paving to support these facilities, consistent with the type of public open space listed in the open space delivery guide at Table 8 and approved Council policy.

R35

REQUIREMENTS

Sports reserves must be vested in the relevant authority in the following condition:

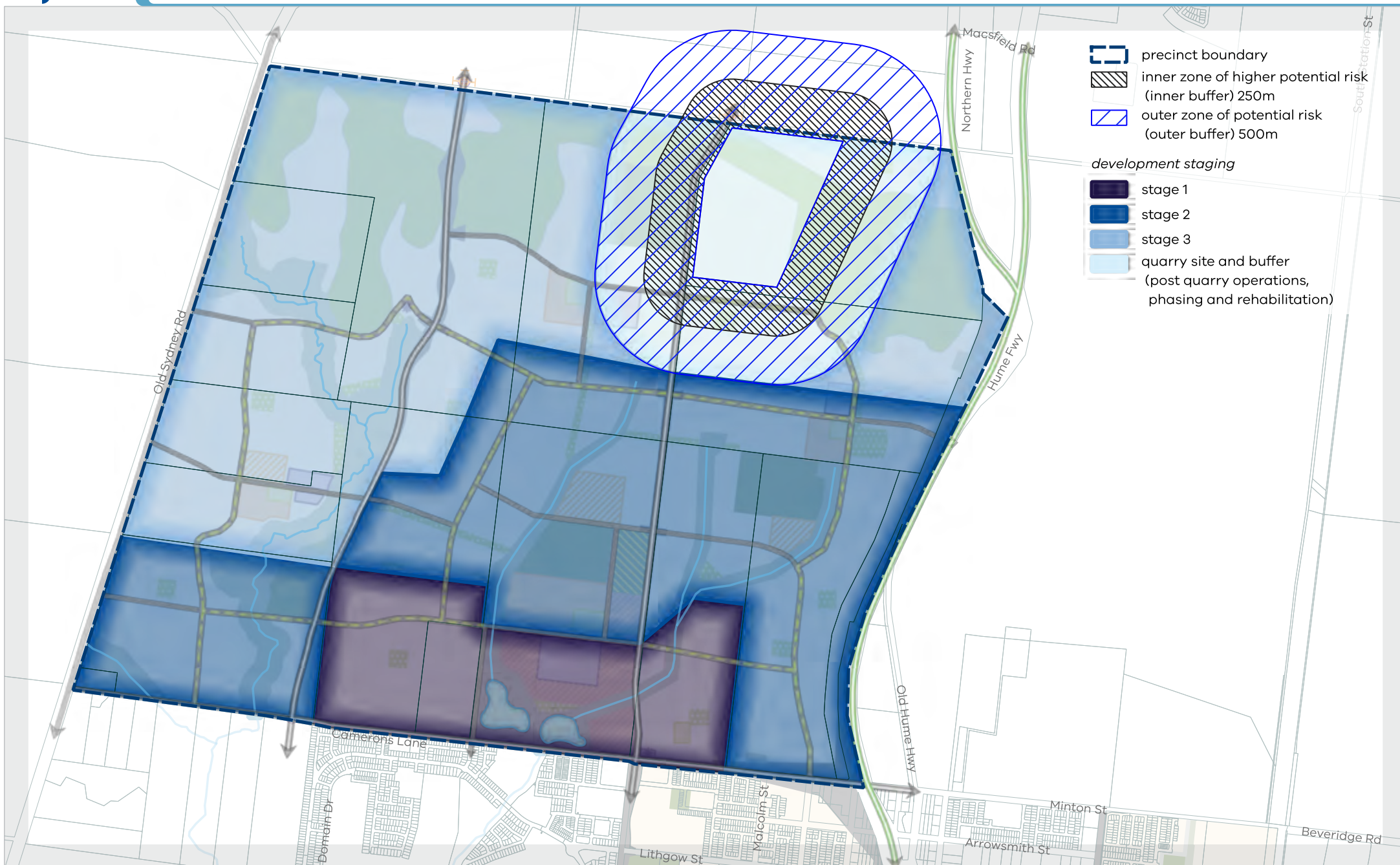
- free from surface and protruding rocks and structures
- reasonably graded and/or top soiled to create a safe and regular surface, with a maximum 1:6 gradient
- bare, patchy and newly graded areas seeded, top-dressed with drought resistant grass.

R36

Consistent with the Beveridge North West ICP, where these works are not considered to be temporary, works are eligible for a works-in-kind credit against an ICP obligation. Works associated with adjacent road construction, such as earthworks for a road embankment, are not eligible for works-in-kind credit.

GUIDELINES**G75**

Where an inter-parcel connection is intended or indicated in the PSP, streets should be constructed to property boundaries at the relevant stage of development required or approved by the responsible authority. Provision should be made for temporary vehicle turning until the inter-parcel connection is delivered.



- precinct boundary
- inner zone of higher potential risk (inner buffer) 250m
- outer zone of potential risk (outer buffer) 500m

development staging

- stage 1
- stage 2
- stage 3
- quarry site and buffer (post quarry operations, phasing and rehabilitation)

4.0 APPENDICES

4.1 Town Centre Hierarchy – External to Precinct

EXTERNAL TOWN CENTRE	RETAIL FLOOR SPACE	LOCATION AND ANCILLARY USES
Mandalay Estate Town Centre	5,000 m2	Located on the corner of Camerons Lane and Patterson Road south of the precinct to service the community in Beveridge Central and Mandalay Estate. The town centre is located with a State Primary School and Community Centre.
Beveridge Central Local Convenience Centre	3,000 m2	Located on the corner of Camerons Lane and Patterson Street, adjacent to the planned town centre in the Mandalay Estate. The centre may include a small line supermarket/specialty retail and small office uses.
Lockerbie North Northern Town Centre	9,000 m2	Located to service the community to the east of the Hume Freeway.
Beveridge Major Town Centre	TBC	Located in Beveridge South West PSP. Identified in the North Growth Corridor Plan, and Plan Melbourne 2017-2050 and Plan for Victoria. Major Town Centres provide a broad mix of higher-order activities relating to various retail, entertainment and commercial uses including health and education.

4.2 Anticipated Population and Employment Creation within Precinct

LAND USE	METRIC	MEASURE	QUANTITY IN PSP	ESTIMATED
RESIDENTIAL				
Town centre	Dwell /NDHA	25	15.80	395
Mixed use	Dwell /NDHA	25	23.74	593
Residential within walkable catchment	Dwell /NDHA	25	191.81	4795
Standard residential	Dwell /NDHA	18	394.83	7107
Sloping land	Dwell /NDHA	15	119.86	1798
Sensitive interface area A	Dwell /NDHA	12	11.60	139
Sensitive interface area B	Dwell /NDHA	15.5	10.53	163
Estimated dwellings	Dwell /NDHA			14,991
Total estimated population	People/Dwell	3.1		46,473
EMPLOYMENT				
LCC1	Jobs/Ha	40	0.10	4
LCC2	Jobs/Ha	40	0.25	10
LTC1	Jobs/Ha	40	7.00	280
LTC2	Jobs/Ha	40	2.00	80
LTC3	Jobs/Ha	40	3.99	160
LTC4	Jobs/Ha	40	2.46	99
Mixed use	Jobs/Ha	40	23.74	950
Estimated jobs - town centres & mixed-use				1,581
CI-01	Jobs/Ha	10	1.20	12
CI-02	Jobs/Ha	10	0.80	8
CI-03	Jobs/Ha	10	2.00	20
CI-04	Jobs/Ha	10	0.80	8
CI-05	Jobs/Ha	10	5.00	50
CI-06	Jobs/Ha	10	0.80	8
Estimated jobs - community centres				106
Govt primary school	Jobs /campus	45	4	180
Govt secondary school	Jobs /campus	100	1	100
Non-govt primary school	Jobs /campus	30	2	60
Non-govt secondary school	Jobs /campus	100	1	100
Estimated jobs - schools				440
Home based business	Jobs/dwelling	0.05	14,991	750
Total estimated jobs				2,877

Tables 4.3 Precinct Infrastructure Plan include staging for when the infrastructure projects are expected to be delivered. The infrastructure projects have been identified as short (S), medium (M) and long (L) term stages:

Short (S): 0-7 years approx.

Medium (M): 7-15 years approx.

Long (L): 15 years and beyond

4.3 Precinct Infrastructure Plan

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Road	BN-RD-01	Camerons Lane between Eastern Arterial (Patterson Road/E14 extension) and existing Malcolm Street.	Arterial road (34m). Provision of land for 34m wide road reserve and construction of upgraded carriageway	Mitchell Shire Council	Yes	Yes	No	S-M	Beveridge Central ICP	50.00%
Road	BN-RD-02	Camerons Lane between Eastern Arterial (Patterson Road/E14 extension) and Western Arterial.	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	S	n/a	100.00%
Road	BN-RD-03a	Western Arterial between IN-04 and IN-05	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Road	BN-RD-03b	Western Arterial between IN-05 and IN-06	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Road	BN-RD-03c	Western Arterial between IN-07 and northern boundary of PSP	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Road	BN-RD-04	Eastern Arterial between N-01 and IN-11	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Road	BN-RD-04a	Eastern Arterial between IN-11 and PSP northern boundary	Arterial road (34m). Provision of land for 34m wide reserve and construction of one traffic lane in each direction (interim treatment).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Road	BN-RD-05	Connector Road between the edge of the Public Acquisition Overlay to the precinct boundary.	Construction of Connector Boulevard.	Mitchell Shire Council	No	No	Yes	M-L	n/a	100.00%
Intersection	BN-IN-01 (62-IN-03)	Eastern Arterial (Patterson Road/E14 extension) / Camerons Lane.	Provision of land and construction of a 4-way signalised intersection.	Mitchell Shire Council	Yes	Yes	No	S-M	Beveridge Central ICP	75.00%
Intersection	BN-IN-02	Camerons Lane / central connector street.	Construction of signalised 4 way intersection.	Mitchell Shire Council	Yes	Yes	No	S-M	n/a	75.00%
Intersection	BN-IN-03	Western Arterial / Camerons Lane.	Construction of signalised 4 way intersection.	Mitchell Shire Council	Yes	Yes	No	S-M	Beveridge South West ICP	75.00%
Intersection	BN-IN-04	Western Arterial and southern connector street.	Construction of a signalised 4 way intersection.	Mitchell Shire Council	Yes	Yes	No	S-M	n/a	100.00%
Intersection	BN-IN-05	Western Arterial and central connector street.	Construction of a signalised 4 way intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Intersection	BN-IN-06	Western Arterial and Boulevard connector (central).	Construction of a signalised 4 way intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Intersection	BN-IN-07 (Standard Levy)	Western Arterial and Boulevard connector (north).	Construction of a signalised T Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	Beveridge North West Supplementary Levy	28.24%
Intersection	BN-IN-07 (Supplementary Levy)	Western Arterial and Boulevard connector (north).	Construction of a signalised T Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	Beveridge North West Standard Levy	71.76%
Intersection	BN-IN-08	Western Arterial and Hadfield Road Reservation (Wallan South).	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	No	Yes	No	M-L	Wallan South ICP	25.00%

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Intersection	BN-IN-09	Eastern Arterial (Patterson Road/E14 extension) and Hadfield Road Reservation (Wallan South)	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	No	Yes	No	M-L	Wallan South ICP	25.00%
Intersection	BN-IN-10	Eastern Arterial (Patterson Road/E14 extension) and Boulevard Connector Street (north).	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Intersection	BN-IN-11	Eastern Arterial (Patterson Road/E14 extension) and Boulevard Connector Street (central).	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Intersection	BN-IN-12	Eastern Arterial (Patterson Road/E14 extension) and Boulevard Connector Street (central).	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Intersection	BN-IN-13	Eastern Arterial (Patterson Road/E14 extension) and Connector Street (south).	Construction of a 4-way signalised Intersection.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Bridge	BN-BR-01	Not needed replaced with culvert BN-CU-04	Not needed	n/a	n/a	n/a	n/a	n/a	n/a	-
Bridge	BN-BR-02	Pedestrian Bridge over Kalkallo Creek.	Construction of a pedestrian bridge over the Kalkallo Creek.	Mitchell Shire Council	Yes	Yes	No	M	n/a	100.00%
Bridge	BN-BR-03	Pedestrian Bridge over Kalkallo Creek.	Construction of a pedestrian bridge over the Kalkallo Creek.	Mitchell Shire Council	Yes	Yes	No	S-M	n/a	100.00%
Pedestrian crossing	BN-PD-01	Signalised pedestrian crossing	Construction of a signalised pedestrian crossing over secondary arterial road.	Mitchell Shire Council	n/a	n/a	Yes	M-L	n/a	100.00%
Pedestrian crossing	BN-PD-02	Signalised pedestrian crossing	Construction of a signalised pedestrian crossing over secondary arterial road.	Mitchell Shire Council	n/a	n/a	Yes	M-L	n/a	100.00%
Culvert	BN-CU-01	Culvert	Construction of a culvert under arterial interim treatment adjoining burrung buluk (Hanna Swamp).	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Culvert	BN-CU-02	Culvert	Construction of a culvert under BN-RD-02.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Culvert	BN-CU-03	Culvert	Construction of a culvert under BN-IN-03.	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%
Culvert	BN-CU-04	Culvert	Construction of a culvert under secondary arterial interim treatment) adjoining burrung buluk	Mitchell Shire Council	Yes	Yes	No	M-L	n/a	100.00%

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Community Infrastructure	BN-CI-01	Northern Level 2 Community Facility	Land and construction of a Multi-purpose Community Centre collocated with the Northern Local Town Centre (1.2ha), including provision for 4 kindergarten rooms	Mitchell Shire Council	Yes	N/A	Yes	M	n/a	100.00%
Community Infrastructure	BN-CI-02	Eastern Level 1 Community Facility	Land and construction of a Multi-purpose Community Centre collocated with the Eastern Local Town Centre (0.8ha), including provision for 4 kindergarten rooms	Mitchell Shire Council	Yes	N/A	Yes	M	n/a	100.00%
Community Infrastructure	BN-CI-03	Southern Level 3 Community Facility	Land and construction of a Multi-purpose Community Centre collocated with the Southern Local Town Centre (2ha), including provision for 4 kindergarten rooms	Mitchell Shire Council	Yes	N/A	Yes	S-M	n/a	100.00%
Community Infrastructure	BN-CI-04	Western Level 1 Community Facility	Land and construction of a Multi-purpose Community Centre collocated with the Western Local Town Centre (0.8ha), including provision for 4 kindergarten rooms	Mitchell Shire Council	Yes	N/A	Yes	S-M	n/a	100.00%
Community Infrastructure	BN-CI-05	Local Indoor Recreation Facility	Provision of land for indoor recreation facility adjoining the Northern sports reserve (SR-01)	Mitchell Shire Council	Yes	No	No	M-L	n/a	-
Community Infrastructure	BN-CI-06	Eastern Level 1 Community Facility	Land and construction of a Multi-purpose Community Centre collocated with the Eastern sports reserve (SR-02) (0.8ha), including provision for 4 kindergarten rooms	Mitchell Shire Council	Yes	N/A	Yes	S-M	n/a	100.00%
Sporting Reserve	BN-SR-01	Sports fields	Construction of sports fields, hard courts and multi-purpose pavilion collocated with the northern town centre.	Mitchell Shire Council	Yes	N/A	Yes	M-L	n/a	100.00%
Sporting Reserve	BN-SR-02	Sports fields	Construction off sports fields, hard courts and multi-purpose pavilion collocated with the eastern local town centre.	Mitchell Shire Council	Yes	N/A	Yes	S-M	n/a	100.00%
Sporting Reserve	BN-SR-03	Sports fields	Construction of sports fields, hard courts and multi-purpose pavilion collocated with the southern local town centre.	Mitchell Shire Council	Yes	N/A	Yes	M-L	n/a	100.00%
Sporting Reserve	BN-SR-04	Sports fields	Construction of sports fields, hard courts and multi-purpose pavilion collocated with the western local town centre.	Mitchell Shire Council	Yes	N/A	Yes	S-M	n/a	100.00%

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Local Park	BN-LP-01	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	L	n/a	100.00%
Local Park	BN-LP-02	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-03	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	S-M	n/a	100.00%
Local Park	BN-LP-04	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	S-M	n/a	100.00%
Local Park	BN-LP-04a	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	S-M	n/a	100.00%
Local Park	BN-LP-05	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	S-M	n/a	100.00%
Local Park	BN-LP-06	Passive Linear Open Space	Provision of land for a linear local park.	Mitchell Shire Council	Yes	No	No	S-M	n/a	100.00%
Local Park	BN-LP-07	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	L	n/a	100.00%
Local Park	BN-LP-08	Passive Linear Open Space	Provision of land for a linear local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-09	Passive Linear Open Space	Provision of land for a linear local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-10	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-11	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-12	Passive Linear Open Space	Provision of land for a linear local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-13	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-14	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-15	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%

PROJECT CATEGORY	REF	TITLE	DESCRIPTION	LEAD AGENCY	COMPONENT INCLUDED IN ICP			TIMING	APPORTIONMENT FUNDING SOURCE	APPORTIONMENT
					ULTIMATE LAND	INTERIM CONSTRUCTION	ULTIMATE CONSTRUCTION			
Local Park	BN-LP-18	Passive Linear Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-19	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-20	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-22	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-23	Passive Open Space	Provision of land for a local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Local Park	BN-LP-24	Passive Open Space	Provision of land for a linear local park.	Mitchell Shire Council	Yes	No	No	M-L	n/a	100.00%
Intersection	N/A	Camerons Lane Interchange	Land and construction of interchange.	Department of Transport and Planning (DTP)	N/A	N/A	N/A	S-M	n/a	-
Road	N/A	Old Sydney Road	Construction of Old Sydney Road.	Mitchell Shire Council	N/A	N/A	N/A	L	N/A	-
Education Facilities	N/A	Hilltops Proposed P6 (Interim Name)	Land and construction of Hilltops Proposed P6 (3.5ha).	Department of Education (DE)	N/A	N/A	N/A	M	N/A	-
Education Facilities	N/A	Spring Hill Proposed P6 (Interim Name)	Land and construction of Spring Hill Proposed P6 (3.5ha).	Department of Education (DE)	N/A	N/A	N/A	M	N/A	-
Education Facilities	N/A	Kalkallo Creek Proposed P6 (Interim Name)	Land and construction of Kalkallo Creek Proposed P6 (3.5ha).	Department of Education (DE)	N/A	N/A	N/A	S-M	N/A	-
Education Facilities	N/A	Beveridge Drystone Proposed P6 (Interim Name)	Land and construction of Drystone Proposed P6 (3.5ha).	Department of Education (DE)	N/A	N/A	N/A	S-M	N/A	-
Education Facilities	N/A	Beveridge Drystone Proposed 7-12 (Interim Name)	Land and construction of Drystone Proposed 7-12 (8.4ha).	Department of Education (DE)	N/A	N/A	N/A	S-M	N/A	-

4.4 Parcel Specific Land Budget

PARCEL ID	TOTAL AREA (HECTARES)	TRANSPORT			COMMUNITY & EDUCATION			OPEN SPACE				TOTAL NET DEVELOPABLE AREA (HECTARES)	TOTAL CONTRIBUTION LAND (HECTARES)	TRANSPORT (HECTARES)	RESIDENTIAL COMMUNITY & RECREATION (HECTARES)
		ARTERIAL ROAD			PROPOSED GOVERNMENT SCHOOL	POTENTIAL NON-GOVERNMENT SCHOOL	ICP COMMUNITY FACILITIES	UNCREDITED OPEN SPACE		CREDITED OPEN SPACE					
		ARTERIAL ROAD – EXISTING ROAD RESERVE	ARTERIAL ROAD – PUBLIC ACQUISITION OVERLAY	ARTERIAL ROAD – NEW / WIDENING / INTERSECTION FLARING (ICP LAND)				WATERWAY & DRAINAGE RESERVE	LANDSCAPE VALUES	LOCAL SPORTS RESERVE (ICP LAND)	LOCAL NETWORK PARK (ICP LAND)				
BN-01	178.38	-	-	11.08	-	-	-	6.25	80.79	-	2.63	77.63	91.35	11.08	2.63
BN-02	40.97	-	-	-	-	-	-	14.07	13.39	-	-	13.51	13.51	-	-
BN-03	41.46	-	-	-	-	-	-	10.68	1.43	-	0.01	29.34	29.35	-	0.01
BN-04	138.49	-	-	6.41	3.50	-	1.20	3.07	24.54	20.01	3.74	76.03	107.38	6.41	24.95
BN-05	116.98	-	-	0.00	-	-	-	-	62.70	-	0.75	53.53	54.29	0.00	0.75
BN-06	115.49	-	-	0.59	3.50	-	0.80	1.53	12.42	-	5.40	91.26	98.05	0.59	6.20
BN-07	42.74	-	-	-	-	3.00	-	1.66	-	-	2.36	35.72	38.08	-	2.36
BN-08	40.13	-	-	-	3.50	-	0.80	7.48	-	2.18	-	26.17	29.15	-	2.98
BN-09	90.23	-	-	3.19	-	-	-	21.97	-	7.26	0.75	57.06	68.26	3.19	8.01
BN-10	2.09	-	-	-	-	-	-	0.12	-	-	-	1.97	1.97	-	-
BN-11	115.92	-	-	4.80	-	-	-	10.94	-	0.61	3.43	96.14	104.98	4.80	4.05
BN-12	16.42	-	-	0.66	-	-	-	-	-	-	-	15.77	16.42	0.66	-
BN-13	134.97	-	-	6.23	11.89	7.00	7.00	27.92	-	11.80	1.87	61.27	88.17	6.23	15.67
BN-14	80.19	-	0.22	2.01	-	-	0.80	13.42	-	3.46	1.49	58.79	66.55	2.01	5.75
BN-15	99.38	-	4.13	-	-	3.00	1.20	6.87	-	9.88	1.50	74.00	85.38	-	11.38
BN-R1	16.36	16.36	-	-	-	-	-	-	-	-	-	-	-	-	-
BN-R2	9.14	9.14	-	-	-	-	-	-	-	-	-	-	-	-	-
Total PSP (including road reserve)	1,279.36	25.50	4.35	34.97	22.39	13.00	10.60	125.98	195.26	55.20	23.92	768.18	892.88	34.97	89.73

4.5 Beveridge North West Local Town Centre – Design Principles

PRINCIPLES	PERFORMANCE CRITERIA
1. Distribution Local Town Centres should provide an accessible and evenly distributed network	<ul style="list-style-type: none"> Local Town Centres should be located to maximise the number of households within a 10min/800m walkable catchment. Local Town Centres should be located within walkable distance of future railway stations or other forms of transit stops to maximise access to commercial and community facilities and services. Local Town Centres should be located on or near the intersection of key transport routes to reinforce place identity and encourage opportunities for passing trade.
2. Location The location of Town Centres should reinforce the sense of place and local identity	<ul style="list-style-type: none"> Local Town Centres should be located in attractive settings and incorporate natural or cultural landscape features such as creeks and waterways, linear open space, pedestrian and cycle links and areas of high aesthetic value. The design of the Local Town Centre should complement and enhance the character of the surrounding area and incorporate views and visual cues to reinforce place identity. Other Local Town Centre locations may be considered where: <ul style="list-style-type: none"> The number of households within the walkable catchment is increased the location incorporates natural or cultural landscape features such as rivers and creeks, tree rows, topographic features or other heritage structures which assist in creating a sense of place The new location will not undermine the viability of other town centres.
3. Land Use & Activity Town Centres should provide a range of activities and services that meet the everyday needs of the local community	<ul style="list-style-type: none"> Local Town Centres should include a range of business and community facilities and services including: <ul style="list-style-type: none"> retail commercial medical recreation and leisure community needs. Local Town Centres should generally include one full line supermarket supported by a range specialty stores, while also allowing opportunities for local specialisation. Services and facilities to support home based and smaller businesses should be provided within the local town centre.
4. Housing Local town centres should include a range of medium and high-density housing and other forms of residential uses	<ul style="list-style-type: none"> Medium and high-density housing should be provided in and around the local town centre to support commercial viability and provide passive surveillance. Residential development should generally be provided at upper levels, or in high-amenity locations at the edge of the centre that have strong pedestrian and cycle connections to the commercial core. Development should include a range of housing types (including retirement living) to provide for a cross section of the community in close proximity to the commercial core.

PRINCIPLES	PERFORMANCE CRITERIA
<p>5. Urban Structure</p> <p>Local town centres should have a robust and legible structure that provides a strong sense of place and the capacity to adapt over time</p>	<ul style="list-style-type: none"> Land uses should be arranged to maximise the accessibility of the commercial core to households within the 10min/800m walkable catchment it serves. Development should complement and enhance the character of the surrounding area by responding to key visual cues associated with the topography and other natural features. Local centres should generally be oriented around a centrally located axis or node of commercial and civic activity such as a main street or civic plaza. Anchor businesses should be located to encourage pedestrian movement along key streets and public spaces. Subdivision should provide a fine grain pattern of development that includes smaller individual tenancies to encourage for diversity and facilitate participation of small local business investment. Landmark features and elements should be located in key places (such as at important intersections, terminating key view lines and vistas) to reinforce legibility and sense of place. Schools, childcare, medical centres and specialised accommodation (for example, aged care, nursing home, student accommodation, and serviced apartments) should generally be located at the edge of the commercial core or where they will make a positive contribution to the spatial structure. Agglomeration of similar land uses into character precincts is encouraged. Car parking areas should be located to the rear of street-based retail frontages and wrapped or sleeved with built form where practical. Carparking areas should be designed to accommodate flexible uses and allow for long term development opportunities. Buildings should include flexible floor spaces (including floor to ceiling heights) to enable localised commercial uses to locate amongst the activity of the local town centre.
<p>6. Public Realm</p> <p>Local Town Centres should provide a rich and interesting public realm that serves as the primary location for community activity</p>	<ul style="list-style-type: none"> Building facades should be built on or close to the street boundary and/or key public spaces to provide a positive sense of definition for the public realm. Primary commercial street frontages should include access points at regular intervals to encourage activity along the length of the street. Building facades should be visually rich, interesting and well-articulated when viewed at a walking pace. Large format developments such as supermarkets should either: <ul style="list-style-type: none"> directly address the main street and/or town square so that the use integrates with and promotes activity within the main street and public spaces/ thoroughfares (Planning permits for buildings and works should condition against the use of “whitewashed” or frosted glass windows, excessive window advertising and obtrusive internal shelving or ‘false walls’ offset from the glazing), or be wrapped or sleeved with smaller, outward facing shops that provide attractive, active frontages to the public realm. Large format developments that incorporate a small access mall may be considered provided that the primary access to the mall is from a main street and/or the town square there are limited number of internalised shops. A centrally located civic space should be provided that acts as the central meeting place within the local town centre. This space may take the form of a town square, town park, public plaza space, public marketplace or a similar locally responsive option designed to function as the identifiable ‘centre’ or ‘heart’. The main public space or town square should have a minimum area of 500 square metres. Smaller public spaces which are integrated within the built form design, surrounded by active frontages and facilitate high levels of pedestrian movement are also encouraged. Public spaces should be oriented to capture north sun and protect from prevailing winds and weather. Public spaces should be flexible and adaptable so that a range of uses can occur within them at any one time. Such uses may include people accessing daily shopping and business needs as well as social interaction, relaxation, celebrations and temporary uses (such as stalls, exhibitions and markets). Public spaces should be integrated with pedestrian and cycle links around and through the local town centre. Footpath widths within and around the public space as well as along the main street should be sufficient to provide for universal access as well as outdoor dining and smaller gathering spaces. Materials and design elements, including all visible side or rear facades, should provide an attractive cohesive and legible environment.

PRINCIPLES	PERFORMANCE CRITERIA
<p>7. Movement and Access</p> <p>Local Town Centres should be accessible, pedestrian focused environments that provide for a range of transportation choices</p>	<ul style="list-style-type: none"> • A permeable, pedestrian-focused network of streets walkways and public spaces should be provided to provide linkages throughout the centre and to designated pedestrian crossing points. • Main streets should be designed as low speed environments with traffic speeds of 40 kilometres per hour or less. • Vehicle access to arterial roads should be designed to the satisfaction of the Department of Transport and Planning and generally be restricted to left in left out movements unless otherwise approved. • Public transport infrastructure and facilities should be provided in convenient locations for commuters. • Bus stops should be designed in accordance with the Public Transport Guidelines for Land Use and Development, to the satisfaction of the Department of Transport and Planning. • Local Town Centres should include a cohesive, suite of clear and concise signage and wayfinding aids that provide effective direction to local facilities. • Bicycle parking should be provided within the street network and public spaces in highly visible locations and close to key destinations. • On-street carparking should be provided to assist with the calming of traffic and to encourage short stay/convenience uses. • Off street carparking areas should provide: <ul style="list-style-type: none"> ◦ appropriate levels of landscaping ◦ dedicated pedestrian routes ◦ ability for passive surveillance. • Secondary access to large format retail and supermarkets from car parking areas should only be considered where it facilitates convenient trolley access and does not diminish the role of the primary access from the main street and or town square. • Car parking access crossovers should be grouped or limited the number of car park access crossovers. • Loading and delivery areas should be located to the rear or side of street-based retail frontages. Heavy vehicle access points should be located to limit the potential for pedestrian and vehicle conflict. • All streets, public spaces and car parks to be lit to Australian standards and with pedestrian (generally white) light. Lighting should be designed to avoid unnecessary spill to the side or above.
<p>8. Amenity</p> <p>Local Town Centres should have pleasant, high-amenity environment</p>	<ul style="list-style-type: none"> • Appropriate transition between the commercial core and traditional residential neighbourhoods should be provided to minimise the potential for adverse noise effects. • Landscaping of all interface areas should be of a high standard as an important element to complement the built form design. • Where practical, urban art should be incorporated into the design of the public realm and commercial spaces. • Street furniture should be located in areas that are highly visible and close to or adjoining pedestrian desire lines/gathering spaces and designed to add visual interest to the Local Town Centre. • Public toilets should be provided in safe, convenient and accessible locations. • Centralised waste collection points should be screened to minimise the potential for adverse amenity effects on adjoining areas and users of the centre. • Where service areas are accessible from car parks, they should present a well-designed and secure facade to public areas. • Mechanical plant and service structure roofs should be included within roof lines or otherwise hidden from view.

PRINCIPLES	PERFORMANCE CRITERIA
9. Sustainability Local Town Centres should encourage environmental sustainability and reduce the need for travel	<ul style="list-style-type: none"> Local Town Centre should encourage the localisation of services which will contribute to a reduction of travel distance to access local services and less dependence on private vehicles. The Local Town Centre should be designed to be sympathetic to its natural surrounds by: <ul style="list-style-type: none"> investigating the use of energy efficient design and construction methods for all buildings including Water Sensitive Urban Design principles such as integrated stormwater retention and reuse (e.g., toilet flushing and landscape irrigation) promoting safe and direct accessibility and mobility within and to and from the Local Town Centre including options for shade and shelter through a combination of landscape and built form treatments ensuring buildings are naturally ventilated to reduce the reliance on plant equipment for heating and cooling promoting passive solar orientation in the configuration and distribution of built form and public spaces grouping waste collection points to maximise opportunities for recycling and reuse promoting solar energy for water and space heating, electricity generation and internal and external lighting investigating other opportunities for the built form to reduce greenhouse gas emissions associated with the occupation and the ongoing use of buildings.

4.6 Local Convenience Centre Performance Criteria

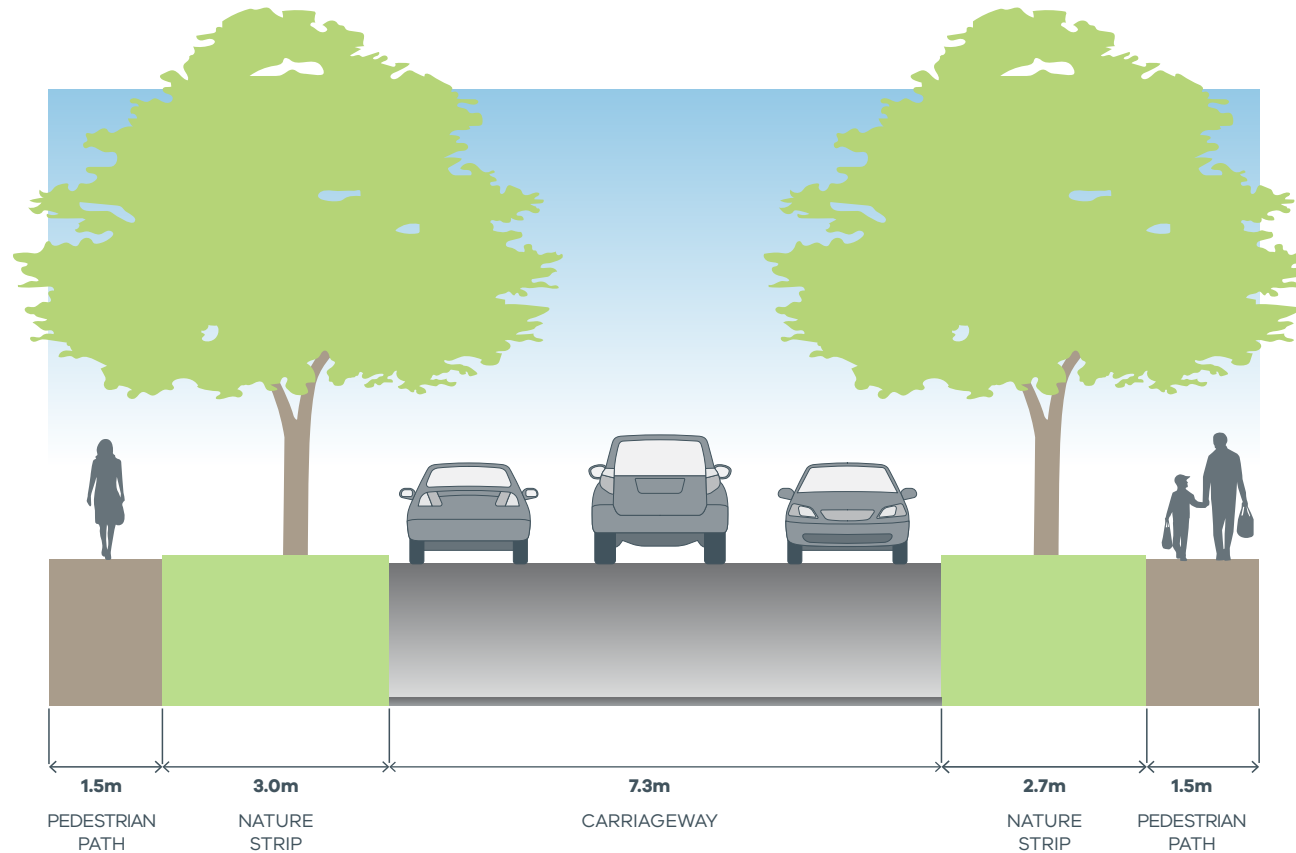
PRINCIPLES	PERFORMANCE CRITERIA
1. Location Local convenience Centres should facilitate access to goods, services, community facilities and opportunities for social interaction	<ul style="list-style-type: none"> Local Convenience Centres should make a positive contribution to the structure and planned future character of neighbourhoods. Local Convenience Centres should reinforce neighbourhood legibility and sense of place. Local Convenience Centres should support the delivery of more diverse and higher density forms of housing.
2. Layout and Design Local Convenience Centres should provide for the convenience needs of the local community	<ul style="list-style-type: none"> Local Convenience Centres should be of a form, scale and design quality that reinforces their role as focal points for the community. Commercial activities within Local Convenience Centres should be limited to a range and scale that meets the convenience needs of local residents and passers-by. Local Convenience Centres should be adaptable to a range of uses and allow activities to change over time. Local Convenience Centres should make a positive contribution to the visual quality and interest of streets and other public open spaces.
7. Movement and Access Local Town Centres should be safe, accessible, environments that provide for a range of transportation choices	<ul style="list-style-type: none"> Local Convenience Centres should make a positive contribution to pedestrian amenity, movement, safety and convenience for people of all ages and abilities. At grade parking and vehicle access should be located and designed in such a manner as to avoid or mitigate adverse effects on pedestrian safety and amenity, and the streetscape. Bicycle parking should be provided within the street network and public spaces in highly visible locations and close to pedestrian desire lines and key destinations. Bus stops should be designed in accordance with the Public Transport Guidelines for Land Use and Development, to the satisfaction of the Department of Transport and Planning.

4.7 Street Cross Sections



Streetscape Cross Section
Victorian Planning Authority

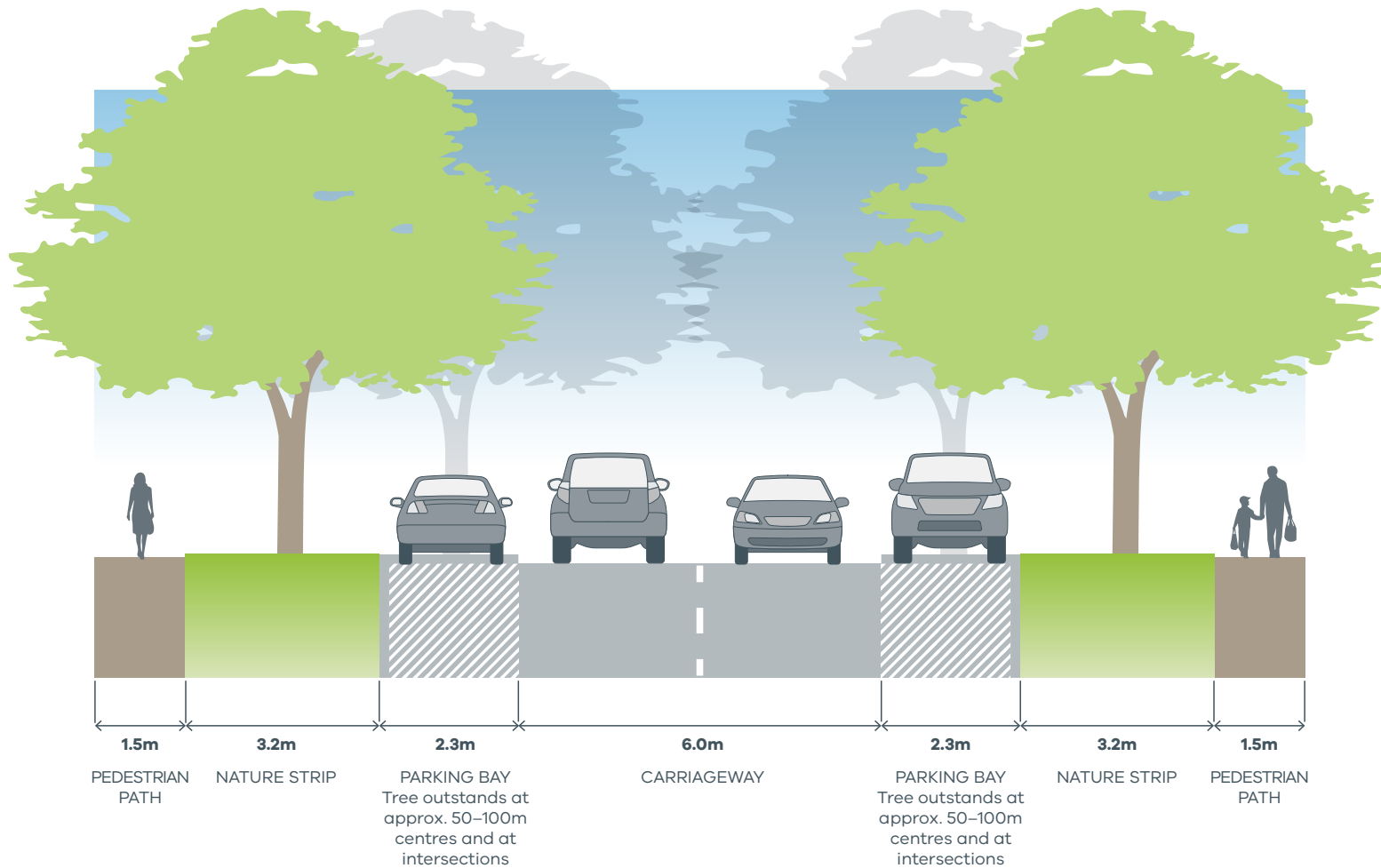
Local Access Street Level 1 (16m) Residential



NOTES:

- Minimum street tree mature height 15 metres
- All kerbs are to be B2 Barrier Kerb
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal element are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.

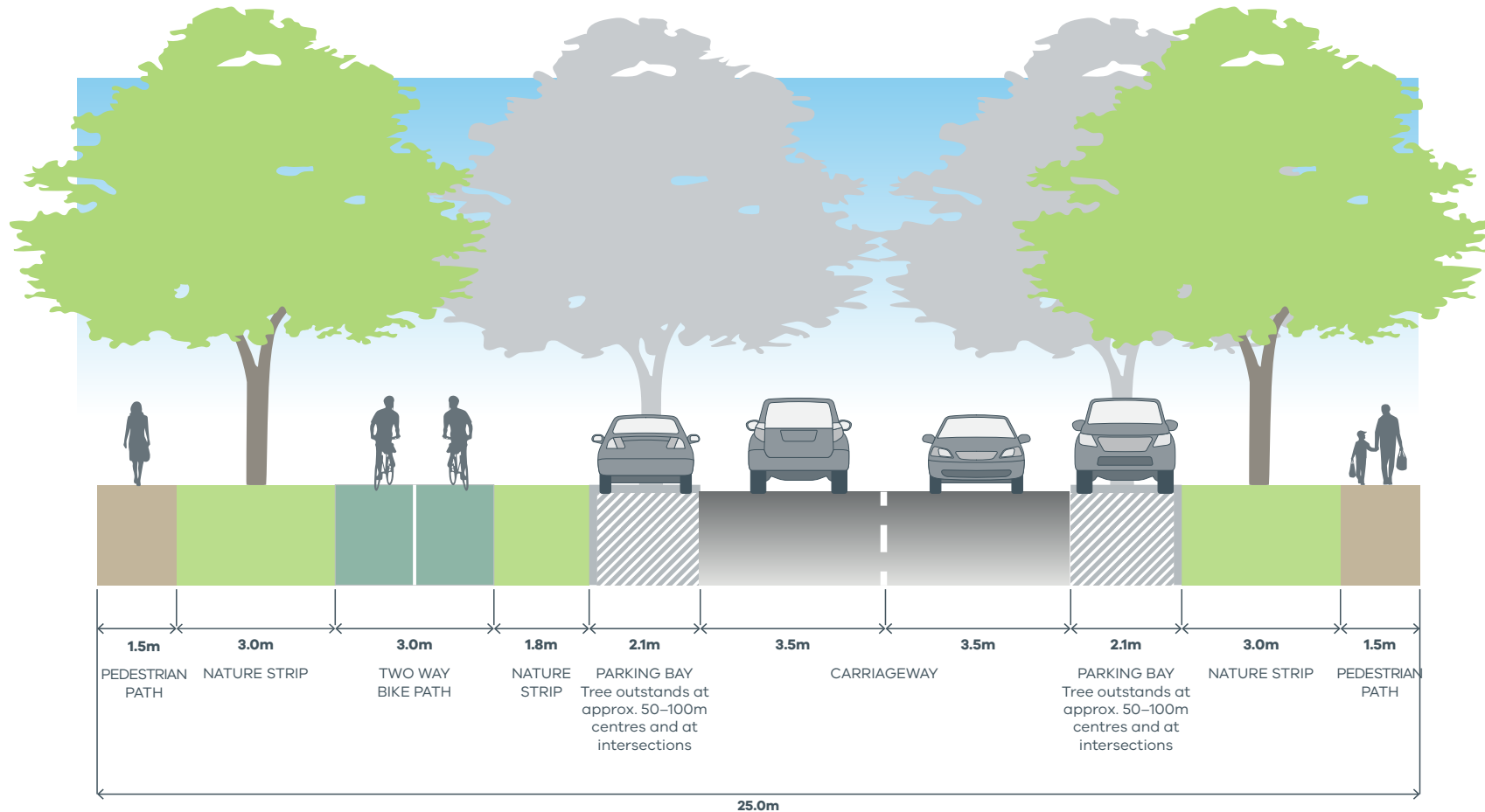
Local Access Street Level 2 (20m) Residential



NOTES:

- Minimum street tree mature height 15 metres
- All kerbs are to be B2 Barrier Kerb
- Verge widths may be reduced where roads abut open space with the consent of the responsible authority
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal element are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.

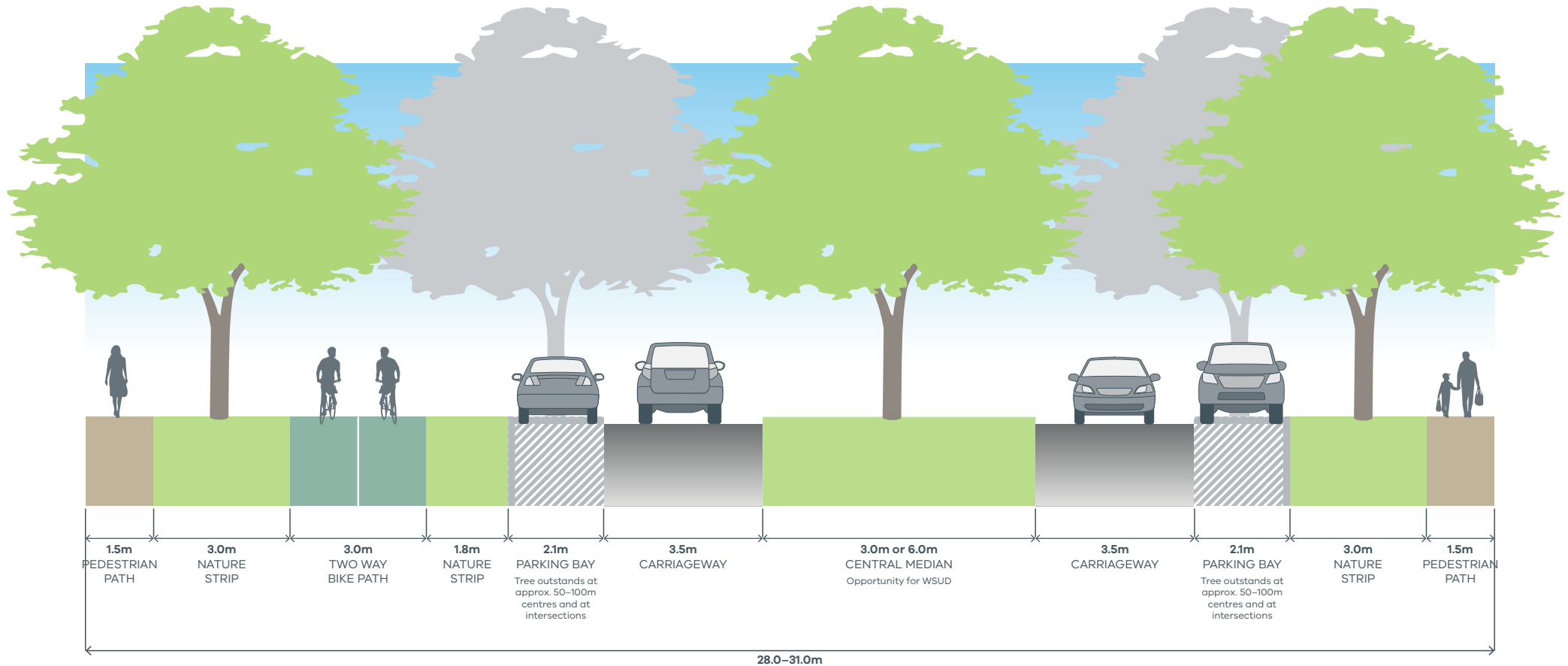
Connector Street (25m) Residential



NOTES:

- Minimum street tree mature height 15 metres.
- All kerbs are to be B2 Barrier Kerb.
- Where roads abut school drop-off zones and thoroughfares, grassed nature strip should be replaced with pavement. Canopy tree planting must be incorporated into any additional pavement.
- Verge widths may be reduced where roads abut open space with the consent of the responsible authority.
- Variations to indicative cross-section may include water sensitive urban design (WSUD) outcome. These could include but are not limited to bioretention tree planter systems and/or median bioretention swales. Such variations must be to the satisfaction of the responsible authority.
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.
- This cross section may be varied where appropriate adjacent to waterways.

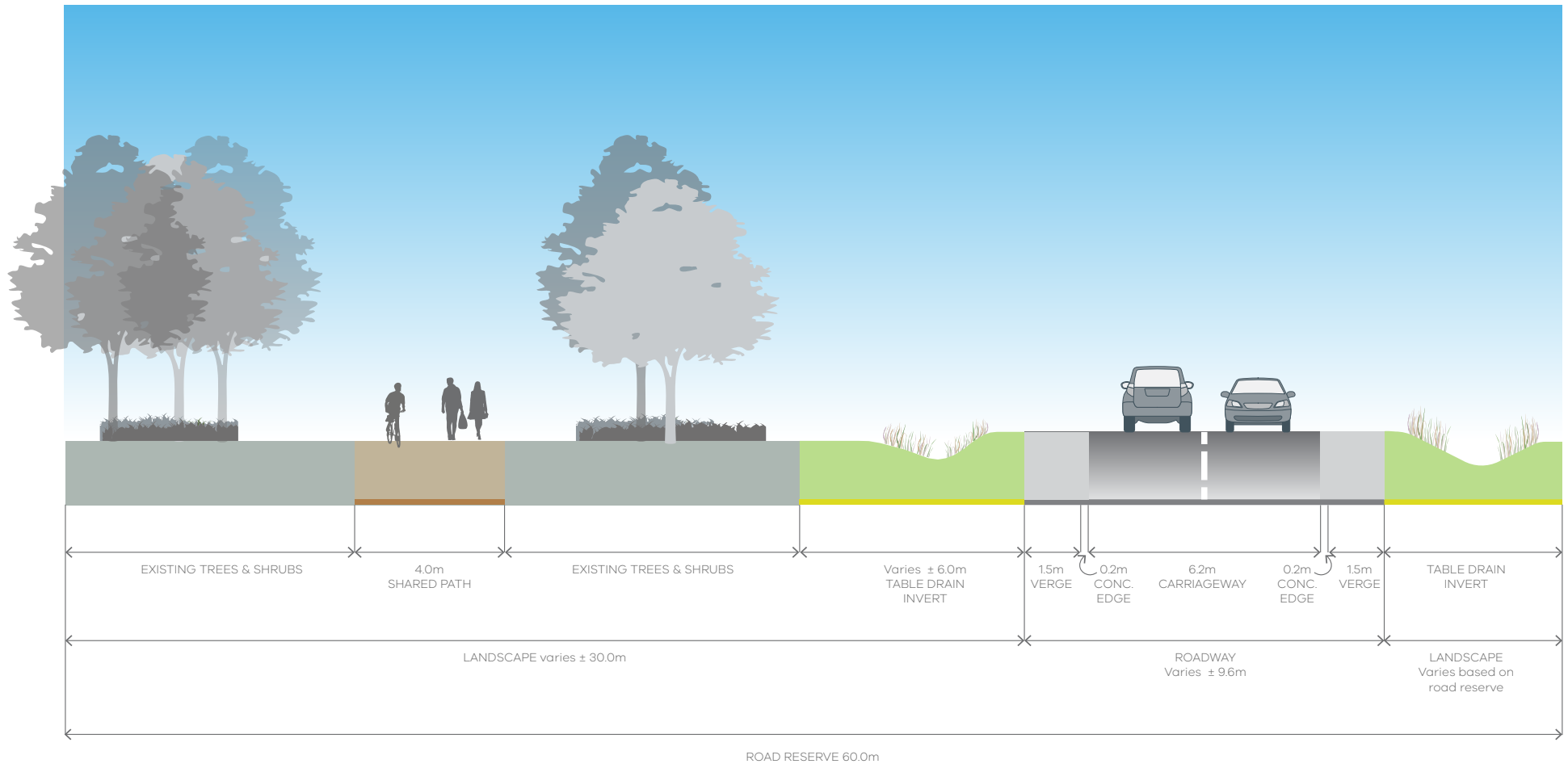
Connector Street Boulevard (28 - 31m)



NOTES:

- Include a central median with large canopy trees to create a boulevard effect. Trees are to be centrally planted in median.
- Topsoil used in central medians is to be sandy loam, with a minimum depth of 200mm. The surface of medians is to be free-draining with a minimum cross fall of 2%, and is to be planted with warm season grasses.
- In areas where high pedestrian volumes are expected (e.g. around schools and town centres), central medians should be paved with harder wearing surfaces such as granitic sand or other pavements. Canopy tree planting must be incorporated into additional paved area.
- Any garden beds in central medians are to be offset 1.5m from back of kerb.
- Kerb to central median is to be SM2 semi-mountable kerb.
- Depending on the location of breaks in the median, provide intermediate pedestrian crossing points to accommodate mid-block crossings.
- An alternative boulevard treatment can be achieved through a wider verge on one side capable of accommodating a double row of canopy trees.
- Verge widths may be reduced where roads abut open space with the consent of the responsible authority.
- Variations to indicative cross-section may include water sensitive urban design (WSUD) outcome. These could include but are not limited to bioretention tree planter systems and/or median bioretention swales. Such variations must be to the satisfaction of the responsible authority.
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.
- This cross section may be varied where appropriate adjacent to waterways.

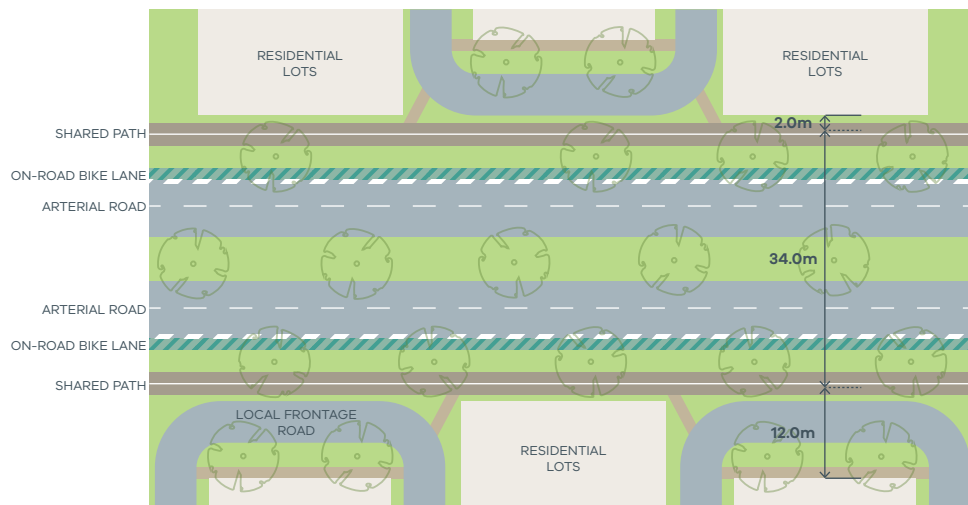
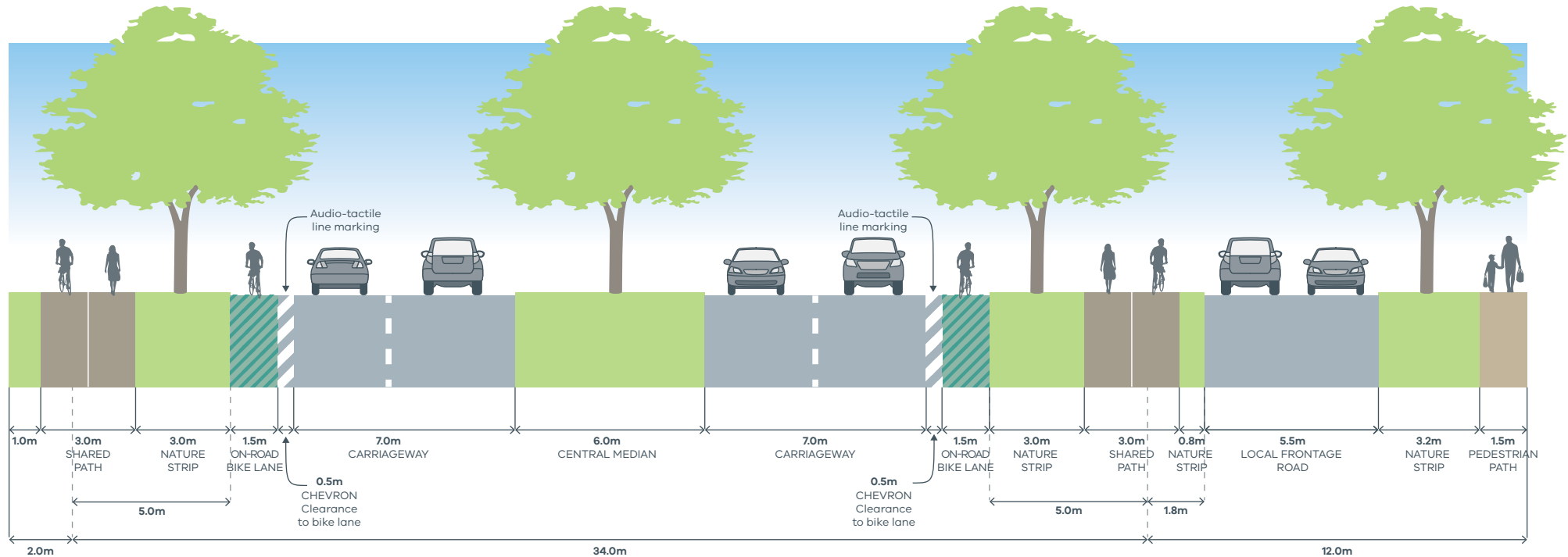
Cross Section (Non - Standard) Old Sydney Road



NOTES:

- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.

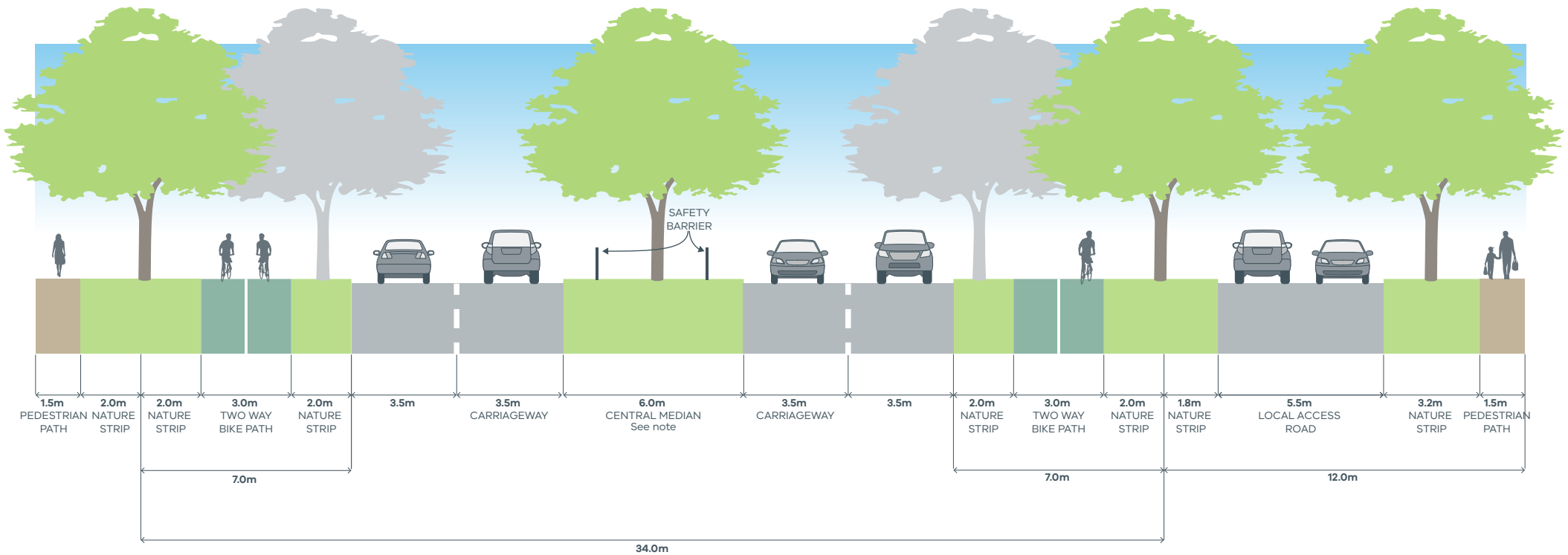
Secondary Arterial Road 4 Lane (34m)



NOTES:

- Includes typical residential interface both sides.
- Minimum street tree mature height 15 metres.
- Kerbs for arterial carriageways are to be SM2 Semi-Mountable Kerb, and local frontage roads are to be B2 Barrier Kerb.
- Cross section indicative, final location of infrastructure and landscaping to be developed at detailed design stage.
- Variations to indicative cross-section may include water sensitive urban design (WSUD) outcomes. These could include but are not limited to bioretention tree planter systems and/or median bioretention swales. Such variations must be to the satisfaction of the responsible authority.
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.
- Alternative bike lane location to be confirmed at detailed design stage

Primary Arterial Road 4 Lane (34m)



NOTES:

- Includes typical residential interface both sides.
- Minimum street tree mature height 15 metres.
- Kerbs for arterial carriageways are to be SM2 Semi-Mountable Kerb, and local frontage roads are to be B2 Barrier Kerb.
- See VicRoads Tree Planting Policy. Large trees within the road reserve to be protected by safety barriers where required.
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.

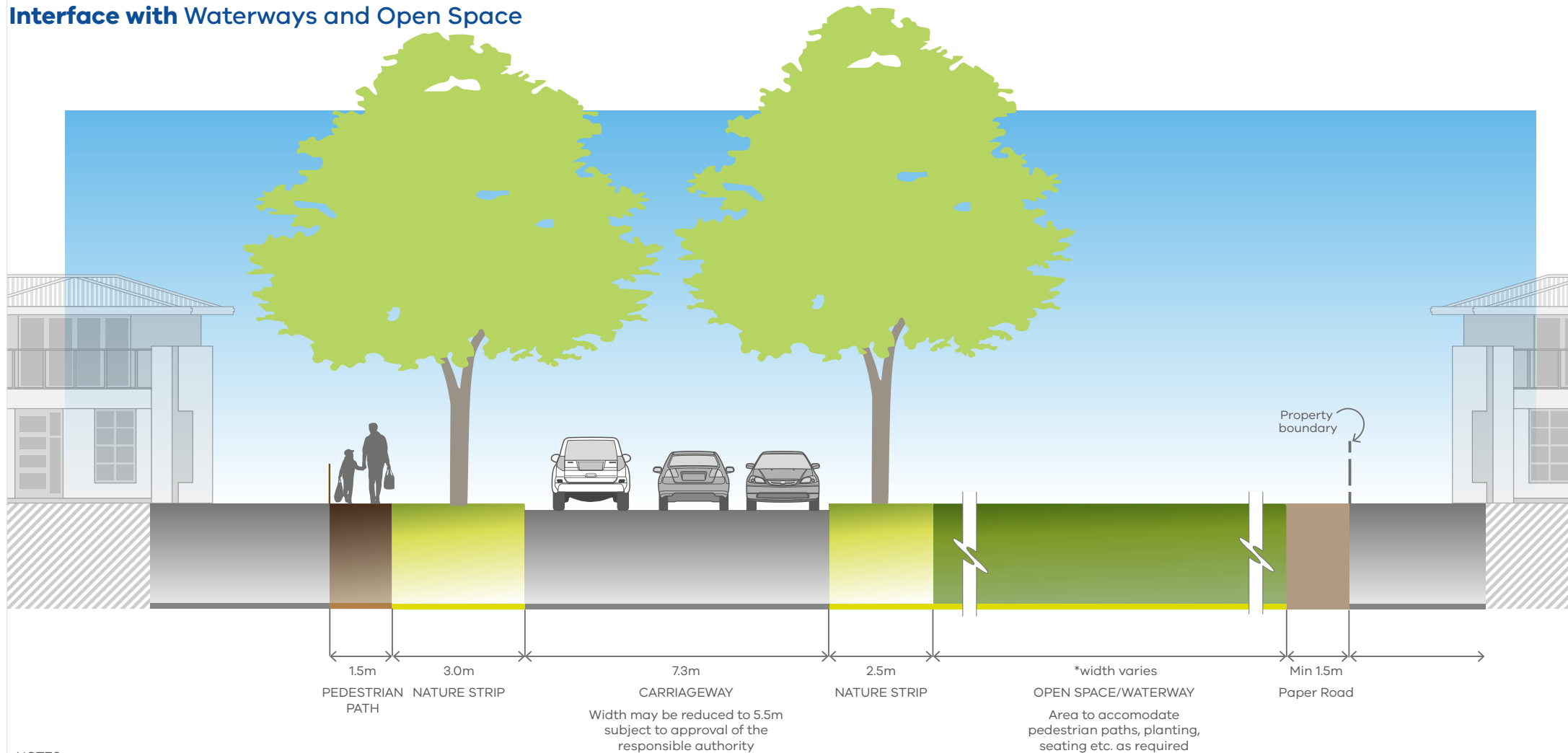
- This cross section may be varied where appropriate adjacent to waterways.

Expected posted speeds:

- Interim - 60km/hr
- Ultimate - 80km/hr

Final operational speed will be determined by DoT to meet the network operational requirements.

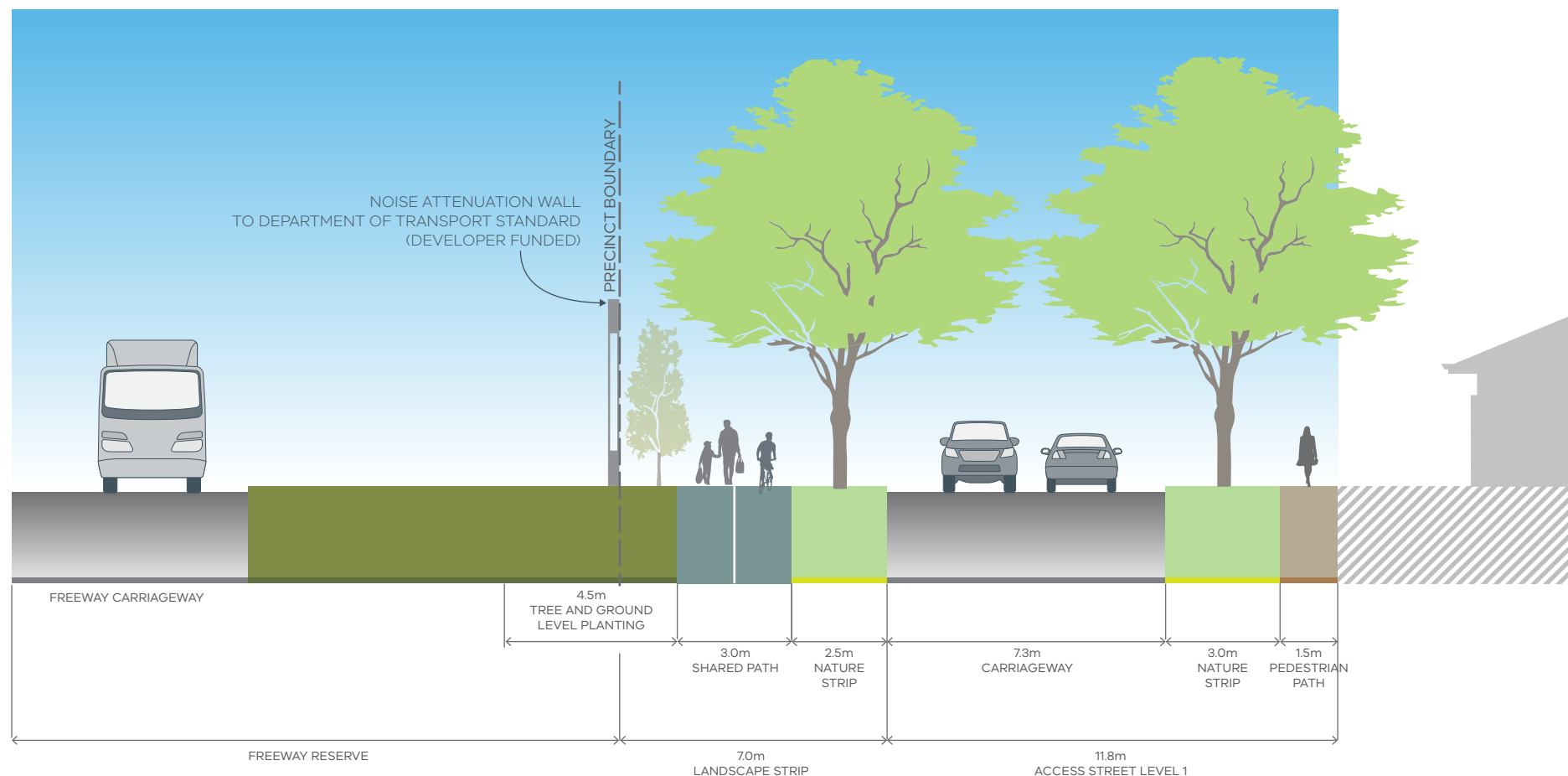
Interface with Waterways and Open Space



NOTES:

- Where active interfaces to waterways are not provided, waterway corridor widths will be increased in order to ensure maintenance access, to the satisfaction of Melbourne Water
- Where a 2.5m nature strip adjacent to the open space/waterway is not needed for tree planting and/or provision of services, the width may be reduced, to the satisfaction of the Responsible Authority
- Public access will be provided along the 'paper road'
- Indented parking required adjacent to sporting reserves
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.

Freeway Interface Street Residential Frontage (18.8m)



NOTES:

- The shared path is to be located outside of the freeway reserve, unless a proposal to locate the path within the freeway reserve is approved in writing by DoT
- All kerbs are to be B2 Barrier Kerb as per Figure 008 in Engineering Design and Construction Manual for Subdivision in Growth Areas
- Verge widths may be reduced where roads abut open space with the consent of the responsible authority
- Shared paths to be delivered as developer works.
- Flexibility in the provision of cross sections within the PSP is allowed so long as the individual modal elements are all provided in a similar manner within each cross section, and subject to agreement with the relevant road authorities and responsible authority.
- The 3 metre meandering shared path is to be located within a 4.5 metre maintenance strip which will include strips of landscaping on both sides. The width of these strips will vary along the extent of the path, and landscaping will be subject to approval by the responsible authority.

4.8 Service Placement Guidelines

4.8.1 Standard road cross sections

Figures 003 and 004 in the *Engineering Design and Construction Manual for Subdivision in Growth Areas* (April 2011) outline placement of services for a typical residential street environment. This approach is appropriate for the majority of the 'standard' road cross sections outlined in Appendix C containing grassed nature strips, footpaths and road pavements.

4.8.2 Non-standard road cross sections

To achieve greater diversity of streetscape outcomes in Melbourne's growth areas, which enhances character and amenity of these new urban areas, non-standard road cross sections are required. Non-standard road cross sections will also be necessary to address local needs, such as fully sealed verges for high pedestrian traffic areas in town centres and opposite schools. This PSP contains suggested non-standard 'variation' road cross sections, however other non-standard outcomes are encouraged.

For non-standard road cross sections where service placement guidance outlined in Figure 003 and 004 in the *Engineering Design and Construction Manual for Subdivision in Growth Areas* (April 2011) is not applicable, the following service placement guidelines will apply.

	UNDER PEDESTRIAN PAVEMENT	UNDER NATURE STRIPS	DIRECTLY UNDER TREES ¹	UNDER KERB	UNDER ROAD PAVEMENT	WITHIN ALLOTMENTS	NOTES
SEWER	Preferred	Possible	Possible	No	Possible	Possible ³	
POTABLE WATER	Possible ⁴	Preferred	Preferred	No	No	No	Can be placed in combined trench with gas
RECYCLED WATER	Possible ⁴	Preferred	Preferred	No	No	No	
GAS	Possible ⁴	Preferred	Preferred	No	No	No	Can be placed in combined trench with potable water
ELECTRICITY	Preferred ⁴	Possible	Possible	No	No	No	Pits to be placed either fully in footpath or nature strip
FTTH/TELCO	Preferred ⁴	Possible	Possible	No	No	No	Pits to be placed either fully in footpath or nature strip
DRAINAGE	Possible	Possible	Possible	Preferred	Preferred	Possible ³	
TRUNK SERVICES	Possible	Possible	Possible	Possible	Preferred	No	
NOTES	<ol style="list-style-type: none"> 1 Trees are not to be placed directly over property service connections 2 Placement of services under road pavement is to be considered when service cannot be accommodated elsewhere in road reserve. Placement of services beneath edge of road pavement/parking bays is preferable to within traffic lanes 3 Where allotment size/frontage width allows adequate room to access and work on a pipe 4 Where connections to properties are within a pit in the pedestrian pavement/footpath 						

4.8.3 General principles for service placement:

- place gas and water on one side of road, electricity on the opposite side
- place water supply on the high side of road
- place services that need connection to adjacent properties closer to these properties
- place trunk services further away from adjacent properties
- place services that relate to the road carriageway (e.g., drainage, street light electricity supply) closer to the road carriageway
- maintain appropriate services clearances and overlap these clearances wherever possible.

PSP 2.0



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Beveridge North West Precinct Structure Plan – November 2024

