




**SUBURBAN
RAIL LOOP
EAST**

SRL East Draft Structure Plan | Cheltenham

Urban Design Report





SRL East Draft Structure Plan Urban Design Report Cheltenham

Technical Report R.1
Rev 01 February 2025

aurecon | **Jacobs** | **MOTT
MACDONALD** ^M _M



Document Control Record



222 Exhibition Street
Melbourne VIC 3000
PO Box 23061 Docklands VIC 8012 Australia

DOCUMENT CONTROL			
Project Title		Suburban Rail Loop	
Document Title		SRL East Draft Structure Plan – Urban Design Report – Cheltenham	
Document ID		Technical Report R.1	
Rev	Date	Revision details/status	Author
01	February 2025	For Exhibition	Mark Sheppard
Current revision		01	

© Copyright 2025 AJM Joint Venture. The concepts, data and information contained in this document are the property of AJM Joint Venture. No part of this document may be reproduced, used, copied, published or adapted for use except in accordance with the provisions of the Copyright Act 1968 or with the consent of AJM Joint Venture.

This document has been prepared for Suburban Rail Loop Authority (SRLA) in its role as a planning authority to inform the development of Structure Plans for each of the declared Suburban Rail Loop planning areas, as defined by Section 65 of the Suburban Rail Loop Act 2021. AJM Joint Venture accepts no liability or responsibility whatsoever for, or in respect of, any use of, or reliance upon, this document by any third party. Any third party using and/or relying upon this document accepts sole responsibility and all risk for using and/or relying on this document for any purpose.

This document is based on the information available, and the assumptions made, as at the date of the document. For further information, please refer to the assumptions, limitations and uncertainties set out in the methodology section of this document.

This document should be read in full and no excerpts are to be taken as representative of the findings.

Contents

Executive summary	1	4 Urban form	33	Appendix A
1 Introduction	3	4.1 Introduction	34	Existing conditions analysis
1.1 Introduction	4	4.2 Summary of analysis	35	Appendix B
1.2 Purpose of this report	4	4.3 Urban form design directions	37	Development conditions analysis
1.3 Structure planning	4	<i>Design Direction 5: Provide for growth in a form that delivers high amenity environments</i>	37	Appendix C
1.4 The Structure Plan Area	4	<i>Design Direction 6: Establish diverse, liveable and productive neighbourhoods</i>	39	Street network and public realm quality analysis
1.5 Methodology	5	4.4 Urban Form Framework	48	
1.6 Recommendations	5	4.5 Urban form areas	49	
1.7 Report structure	5	5 Built form	54	
1.8 How to use this report	6	5.1 Introduction	55	
1.9 What is urban design?	6	5.2 Built form design directions	56	
2 Context	7	<i>Design Direction 7: Support an inviting public realm</i>	56	
2.1 Policy context	8	<i>Design Direction 8: Ensure high quality and responsive built form</i>	59	
2.2 The Vision for Cheltenham	9	5.3 Built Form Framework	62	
2.3 SRL Urban Design Principles and Objectives	10	6 Outcomes	65	
2.4 Urban context	11	6.1 Introduction	66	
2.5 Summary of existing conditions	12	6.2 Central Core	67	
3 Public realm	17	6.3 Central Flanks	72	
3.1 Introduction	18	6.4 Main Streets	77	
3.2 Summary of analysis	19	6.5 Key Movement Corridors	82	
3.3 Public realm design directions	23	6.6 Urban Neighbourhoods	87	
<i>Design Direction 1: Ensure streets are inviting places that support community life</i>	23	6.7 Residential Neighbourhoods	92	
<i>Design Direction 2: Promote active transport access</i>	25	6.8 Employment Growth	98	
<i>Design Direction 3: Foster resilient urban environments</i>	26	6.9 Enterprise Neighbourhoods	102	
<i>Design Direction 4: Facilitate outdoor recreation</i>	27	6.10 Strategic Sites	106	
3.4 Public Realm Framework	28	6.11 Urban development typology testing	109	
		6.12 Place type interfaces	110	
		7 Recommendations summary	113	

This document is to be read in conjunction with

SRL East Structure Plan - Urban Design Report - Attachment A: Supporting Research

SRL East Structure Plan - Urban Design Report - Attachment B: Gehl Public Space and Life study

SRL East Structure Plan - Urban Design Report - Attachment C: Assessment of Solar Access to the Public Realm

Executive summary

Suburban Rail Loop (SRL) East is a city and state-shaping project that will transform Victoria's public transport system and support vibrant suburbs across Melbourne. Realised over decades, SRL will deliver sustained job creation and investment in Melbourne's already thriving middle suburbs, leading to increased demand for floorspace.

Draft Structure Plans (Structure Plans) are being prepared for the neighbourhoods surrounding the new underground stations at Box Hill, Burwood, Glen Waverley, Monash, Clayton and Cheltenham.

The Structure Plans will set a vision and framework to guide growth and change in each neighbourhood, while preserving valued existing character attributes and ensuring high quality environments.

This Urban Design Report will inform the development of the Structure Plan for Cheltenham.

Recommendations

This report sets out recommendations relating to urban design to consider when developing the Structure Plans, with the objective to achieve the Cheltenham Vision and the SRL Urban Design Principles and Objectives. This includes reconciling the provision of growth with the creation of high quality amenity, defining the attributes of each neighbourhood that will deliver diverse opportunities, and identifying the public realm interventions necessary to create a well connected, comfortable and welcoming public realm.

The recommendations are organised around three major urban design components - public realm, urban form and built form.

A set of eight design directions were developed to guide the recommendations:

- Design Direction 1: Ensure streets are inviting places that support community life
- Design Direction 2: Promote active transport access
- Design Direction 3: Foster resilient urban environments
- Design Direction 4: Facilitate outdoor recreation
- Design Direction 5: Provide for growth in a form that delivers high amenity environments
- Design Direction 6: Establish diverse, liveable and productive neighbourhoods
- Design Direction 7: Support an inviting public realm
- Design Direction 8: Ensure high quality and responsive built form.

Each design direction provides a set of strategies to inform how the design directions can be achieved in the Structure Plan Area.

The **public realm strategies** seek to deliver an environment which invites people to walk, particularly to key destinations such as public transport, activity centres, major employment areas and large open spaces, and which provides outdoor amenity to support higher-density living and working. The initiatives include new links where there is a gap in walkability or general permeability, and new open spaces where a gap in provision has been identified. Additionally, the strategies advocate for a street and open space system with an enhanced environmental performance, creating climate resilient streets and spaces.

The **urban form strategies** seek to deliver higher-density and high-quality development for living and working in response to the increased accessibility brought about by the SRL, while also contributing to a high-quality public realm. The Structure Plan Area comprises a collection of places, each of which has distinct attributes and a distinct desired land use function. The strategies promote different forms of development in each place that will capitalise on its attributes and support its desired land use function, reinforcing their diversity and individual identity and sense of place.

The different place types include:

- A central core of well-spaced towers providing for high-density mixed-use activity, complemented by high amenity public realm that supports the walkability and intermodal interchange
- Grand boulevards and avenues with moderately-tall and uniform built form to capitalise on their public transport accessibility and to create a well-framed public realm, complemented by broad footpaths and formal rows of mature trees
- Mixed-use areas comprising medium-rise, adaptable buildings that create a continuous, activated street wall behind small, landscaped setbacks
- Residential neighbourhoods developed with low-medium rise apartment buildings in garden settings and leafy streets, and dissected by 'green streets' that connect them to key destinations.

(These places differ from the Structure Plan neighbourhoods, which are informed by a broader range of considerations.)

The **built form strategies** seek to deliver a vibrant public realm, a high standard of on-site amenity and environmentally responsive built form. A 'mid-rise' scale of development is generally recommended because it provides for growth in a form that delivers high amenity environments by maintaining a relatively-open streetscape and a sense of openness between buildings, enabling solar access and sky views. Mid-rise buildings also represent best practice across a range of functional, contextual, social and environmental criteria. The varied forms of mid-rise development recommended will deliver a diverse range of accommodation types, suitable for the anticipated land uses and household types, and a diverse visual experience. Building setbacks are recommended to enable increased tree canopy cover, which will help to mitigate the urban heat island effect, offer access to nature, bolster biodiversity and facilitate natural stormwater management.



Figure A: Sir William Fry Reserve

The Vision for Cheltenham outlines the long-term aspiration for the precinct including the Structure Plan Area.

The Vision for Cheltenham:

Cheltenham will be a true transit-oriented community where increased connectivity leads to more housing choices, new jobs and lifestyle experiences for everyone.

Public realm outcomes

The Cheltenham, Southland and Highett Activity Centres are connected by green north-south pedestrian links and complemented by east-west biodiversity corridors to create an interconnected network providing access to multiple destinations across the Structure Plan Area.

Applying the public realm design directions and strategies proposed in this report is recommended to achieve the public realm outcomes illustrated below. A comprehensive description of the design directions and strategies is provided in Section 3.

The actions needed to realise these strategies are detailed in Section 6.



Figure B: Public realm outcomes diagram

Urban form and built form outcomes

The Central Core adjacent to the SRL station at Cheltenham and the existing commercial/retail core is envisaged to face the highest level of intensification. The Key Movement Corridors urban form is proposed along Nepean Highway, Bay Road and Chesterville Road, ensuring well-framed streets and accessible housing and employment opportunities. A higher level of change is proposed in the areas located between the SRL station and Highett Activity Centre and along Bay Road. Low to Moderate-intensity residential and employment urban forms are proposed in other areas responding to the lower density and green context.

Main Street urban form and built form is proposed for Highett Road in response to the existing fine-grain character.

Applying the urban form and built form design directions and strategies proposed in this report is envisaged to result in the urban form outcomes illustrated below. The design directions and strategies are described in Section 4.

The built form strategies needed to support an inviting public realm and shape high quality and responsive development are identified in Section 5.

The actions needed to realise these strategies are detailed Section 6.

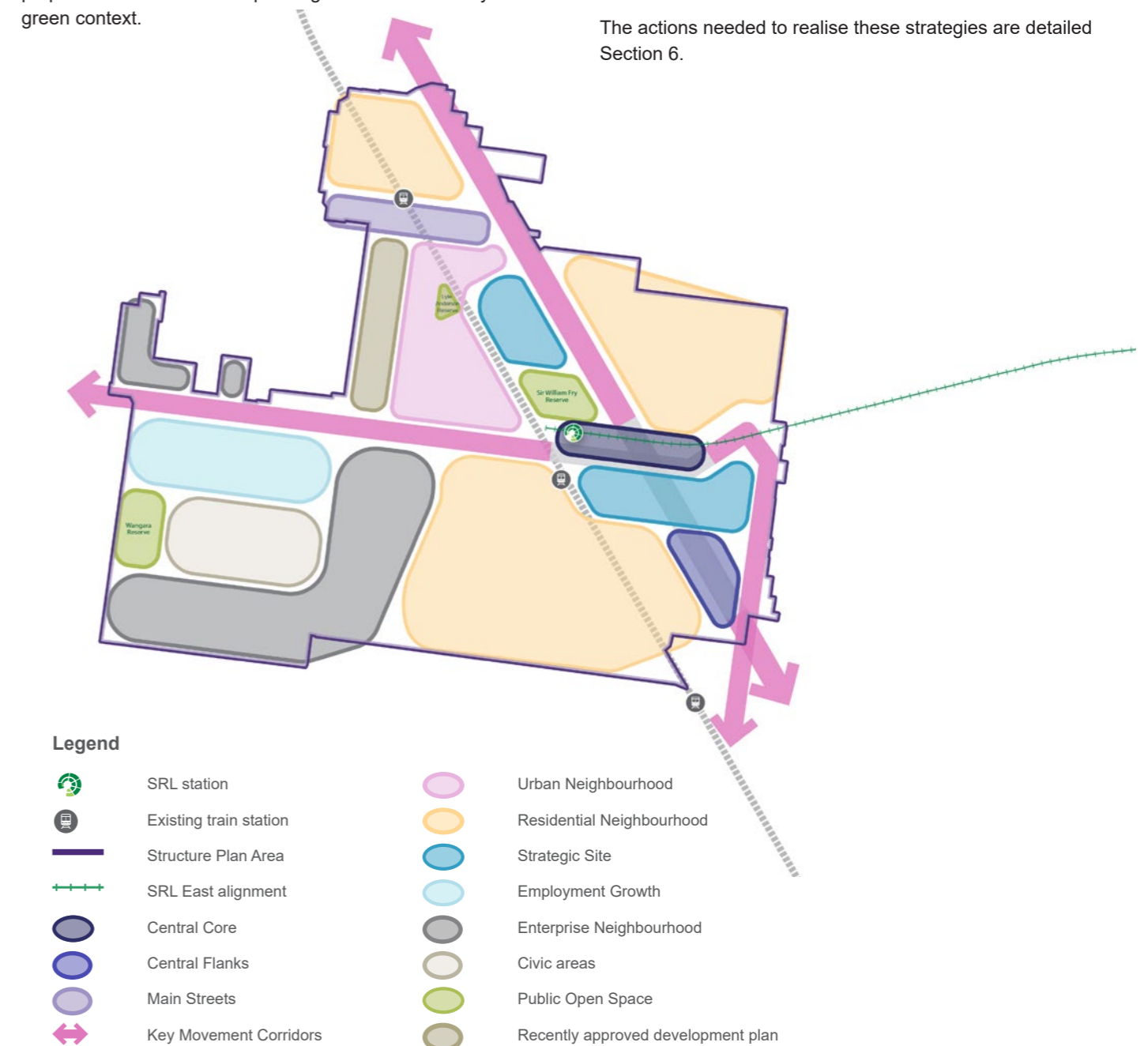


Figure C: Urban form outcomes diagram



1 Introduction

- 1.1 Introduction
- 1.2 Purpose of this report
- 1.3 Structure planning
- 1.4 Structure Plan Area
- 1.5 Methodology
- 1.6 Recommendations
- 1.7 Report structure
- 1.8 How to use this report?
- 1.9 What is urban design?

1.1 Introduction

Suburban Rail Loop (SRL) is a transformational project that will help shape Melbourne’s growth in the decades ahead. It will better connect Victorians to jobs, retail, education, health services and each other – and help Melbourne evolve into a ‘city of centres’.

SRL will deliver a 90-kilometre rail line linking every major train service from the Frankston Line to the Werribee Line via Melbourne Airport.

SRL East from Cheltenham to Box Hill will connect major employment, health, education and retail destinations in Melbourne’s east and south east. Twin 26-kilometre tunnels will link priority growth suburbs in the municipalities of Bayside, Kingston, Monash and Whitehorse.

SRL East Draft Structure Plan Areas will surround the six new underground stations at Box Hill, Burwood, Glen Waverley, Monash, Clayton and Cheltenham.

1.2 Purpose of this report

This report will inform the development of the Draft Structure Plan (Structure Plan) to guide land use planning and development in the Cheltenham SRL neighbourhood.

It describes the existing public realm and urban design character of the Structure Plan Area, and identifies issues and opportunities relating to its development.

Recommendations to consider when developing the Structure Plans are made, with the objective to avoid, minimise or manage potential negative impacts of change, and to maximise potential for positive change.

1.3 Structure planning

Structure Plans have been prepared for defined areas surrounding the new SRL East stations to help deliver the vision developed for each SRL East neighbourhood.

The Structure Plans cover defined Structure Plan Areas that can support the most growth and change. These areas cover a walkable catchment that extends from the SRL station entrances. Additional places are included within each defined area as required to make planning guidance more robust and effective, and to align with each community’s aspirations and current and future needs.

A Structure Plan is a blueprint to guide how an area develops and changes over a period of time. Structure Plans describe how future growth within the area will be managed in an appropriate and sustainable way to achieve social, economic and environmental objectives. The plans cover a wide range of matters, such as transport connections and car parking, housing and commercial development, community infrastructure, urban design, open space, water and energy management, climate resilience and sustainability.

By tailoring planning decisions to reflect the needs of a defined area, Structure Plans give effect to the policies and objectives set for these areas and cater for changing community needs. They also provide certainty for residents, businesses and developers by identifying the preferred locations and timing of future land uses, development and infrastructure provision.

Structure Plans take a flexible and responsive approach that enables places to evolve over time.

Planning scheme amendments will be required to implement the Structure Plans into the planning schemes of the cities of Bayside, Kingston, Monash and Whitehorse.

1.4 The Structure Plan Area

The Cheltenham Structure Plan Area is a defined area around each SRL East station that can support the most growth and change. These areas cover a walkable catchment that extends from the SRL station entrances.

The Structure Plan Area covers a defined area around the SRL station that can support the most growth and change. The area covers a walkable catchment that extends from the SRL station entrance.

It is generally bordered by Chesterville Road to the east, Wickham Road to the north, Worthing Road, Middleton Street and George Street to the West and Park Road and Tulip Street to the south.

Nepean Highway and the existing Frankston rail line running parallel to each other in a north-west to south-east direction. The Cheltenham-Southland Activity Centre and Highett Activity Centre are the main commercial/retail cores in the Structure Plan Area are located at the intersection of the Nepean Highway/Frankston rail line corridor with Bay Road and Highett Road.

The Cheltenham Structure Plan Area is shown in Figure 1.1.

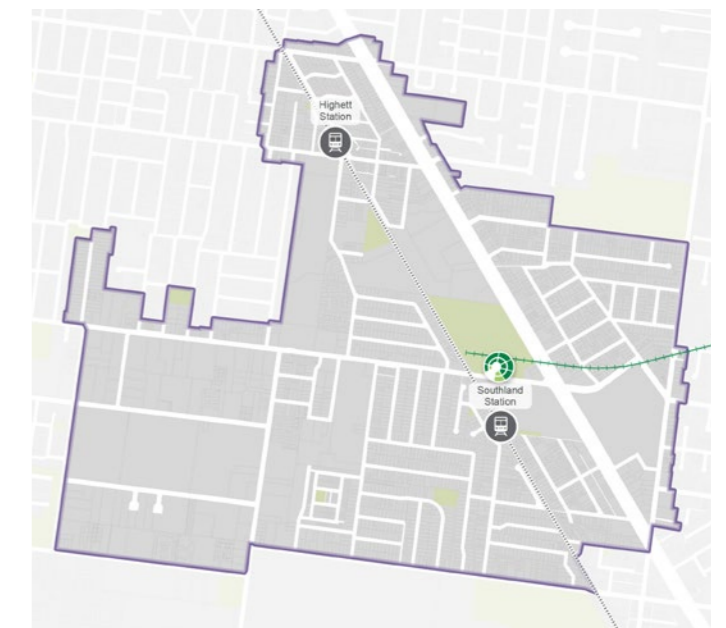


Figure 1.1: Cheltenham Structure Plan Area

1.5 Methodology

The methodology for the urban design assessment involved the following steps:

- A Study Area for the assessment was identified. For this assessment, the Study Area comprised the SRL Cheltenham Structure Plan Area, surrounding the station where the most change and development will occur
- Legislation, policies and other documents relevant to the assessment were reviewed. This included:
 - National, state and local government policies, legislation, strategies and guidelines relevant to the affected area
 - SRL East policy and strategies including: SRL East Precinct Visions, SRL East Urban Design Framework, SRL Precinct Development Framework, and SRL East Urban Design Strategy*
- The community and stakeholder engagement
- Technical assessments undertaken, including studies on housing, land use, economics, housing, retail, transport, open space, community infrastructure, flooding and water management, aviation, ecology and arboriculture, sustainability and climate response
- Research was conducted into forms of higher-density development and designs for streets and open spaces in higher-density environments
- Urban design context and background analysis, and the identification of issues and opportunities. This included a desk top review and site visits
- Testing of solar access in the public realm and private properties adjoining development
- Based on the assessment, recommendations were developed for public realm, urban form and built form
- Consideration of previous consultation undertaken for the feasibility, design development and environmental and planning approval phases of the SRL project, and engagement undertaken through the development of the Structure Plans
- The urban design peer review and advice was sought on the recommendations made in this report.

* While the SRL East Urban Design Strategy was only developed to guide the use and development of the SRL Rail and Infrastructure Project, this document seeks to ensure that the urban design strategies for the broader Structure Plan Area align, respond and build-on the SRL East Urban Design Strategy.

1.6 Recommendations

The report outlines the basis for the recommended urban design strategies and initiatives. These are organised around:

A **Public Realm Framework, design directions and strategies** that seek to deliver an environment which invites people to walk, particularly to key destinations such as public transport, activity centres and major open space areas, and which provides outdoor amenity to support higher-density living and working. This includes recommendations for:

- New streets, lanes and pedestrian links to provide convenient walking routes throughout the Structure Plan Area
- Improvements to existing streets, lanes and pedestrian links based on their role in the movement network, to support their appeal and safety for pedestrians, and social activity
- New and upgraded open spaces to provide for the recreation needs of the future community.

An **Urban Form Framework, design directions and strategies** that seek to deliver create a range of distinct, higher-density neighbourhoods and high quality development for living and working in response to the increased accessibility brought about by the SRL and the land uses sought in each area, while also contributing to a high quality public realm. This includes recommendations for:

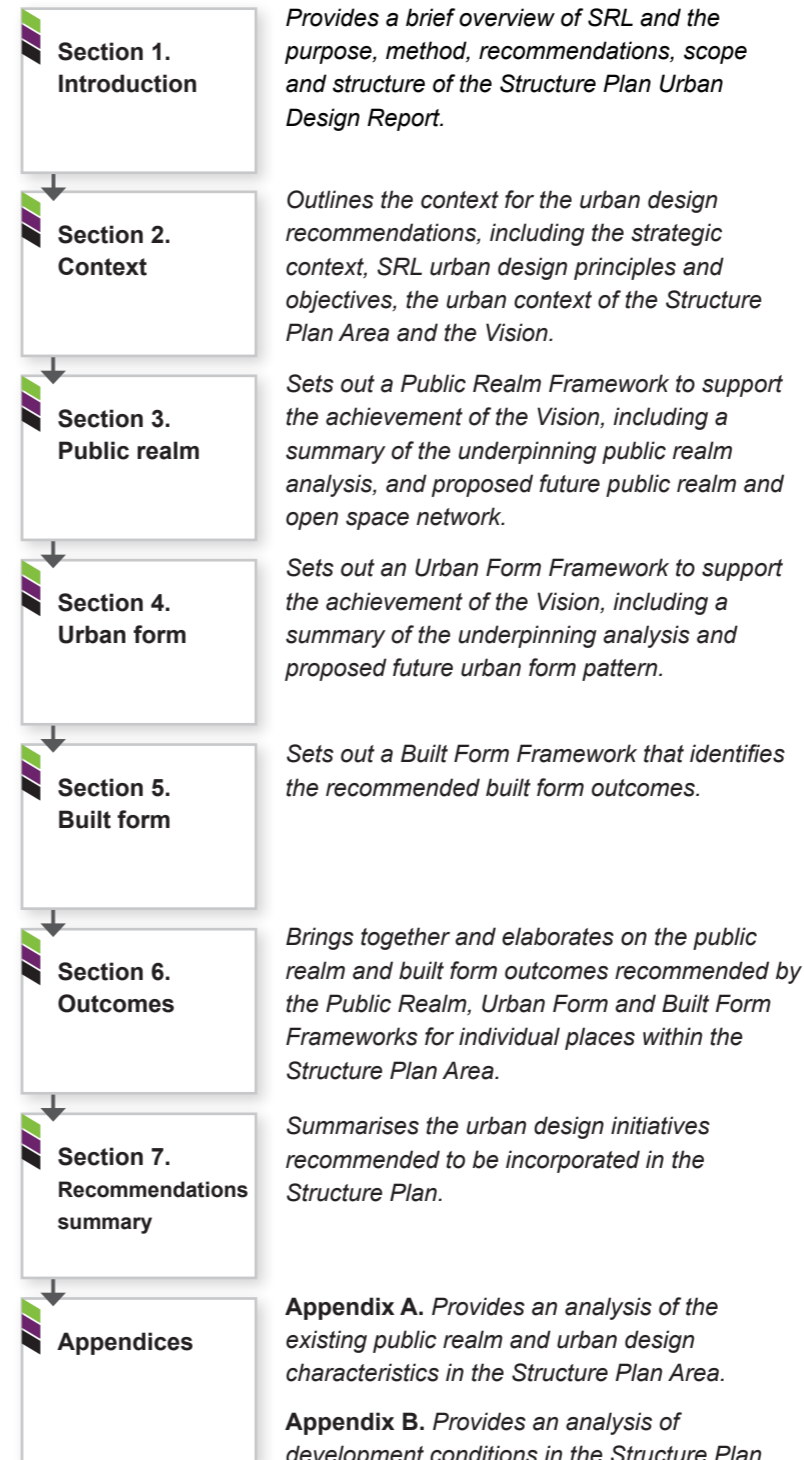
- The types, and forms intensity and land use of new buildings in each part of the Structure Plan Area
- Specific locations within each area where greater or lesser building scale is appropriate. The further design of key interfaces between built form and public realm.

A **Built Form Framework, Design Directions and Strategies** that seek to ensure high quality development for living and working, and to contribute to high quality public realm amenity. This includes recommendations for:

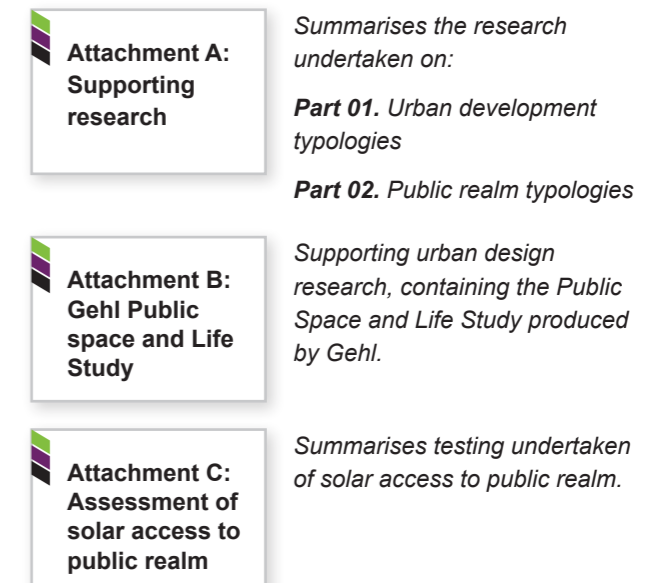
- The design of buildings where they address the public realm
- The massing of built form at its interface with neighbouring properties
- On-site landscaping.

Outcomes that illustrate how the public realm, urban form and built form strategies can be delivered in each Place Type within the Structure Plan Area.

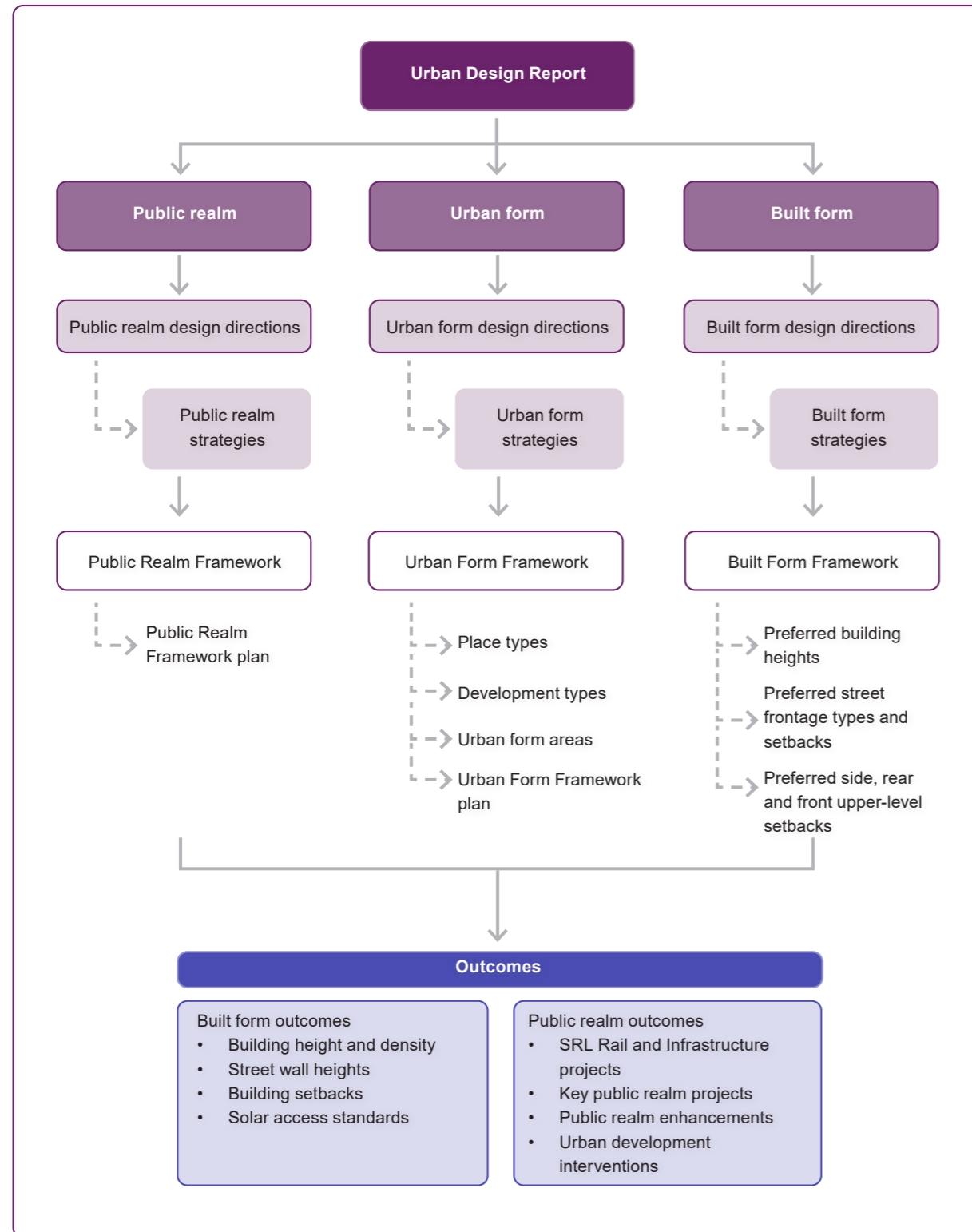
1.7 Report structure



Supporting Documents



1.8 How to use this report



1.9 What is urban design?

Urban design is the practice of shaping the built environment to improve the quality of design and overall liveability, productivity and connectivity of cities. While built form is a key contributor, urban design is about more than just the appearance of the built environment. Urban design also relates to functional, environmental, economic and social outcomes of a project.

Urban design operates at a variety of scales, from precinct and neighbourhood planning to the design of a station forecourt or public park.

Achieving high-quality urban design requires good processes and guidance that optimise outcomes and value for money. High-quality design is authentic, contextual and site-specific.

Density Done Well

Density can mean different things, in different places. Each location requires consideration of the scale of density appropriate to its specific local context and future role. Different scales of density bring different benefits and present different challenges. Good urban design can help address these challenges, to improve:

- Functionality, character and spirit of public places for individuals and communities
- Levels of comfort, accessibility, safety and inclusiveness of places
- Expression of social and cultural values associated with places and people
- Socio-economic composition, diversity and economic vibrancy of urban areas
- Ecological systems, sustainability and the resilience of urban environments
- Community connectedness, health and wellbeing, and pride of place.

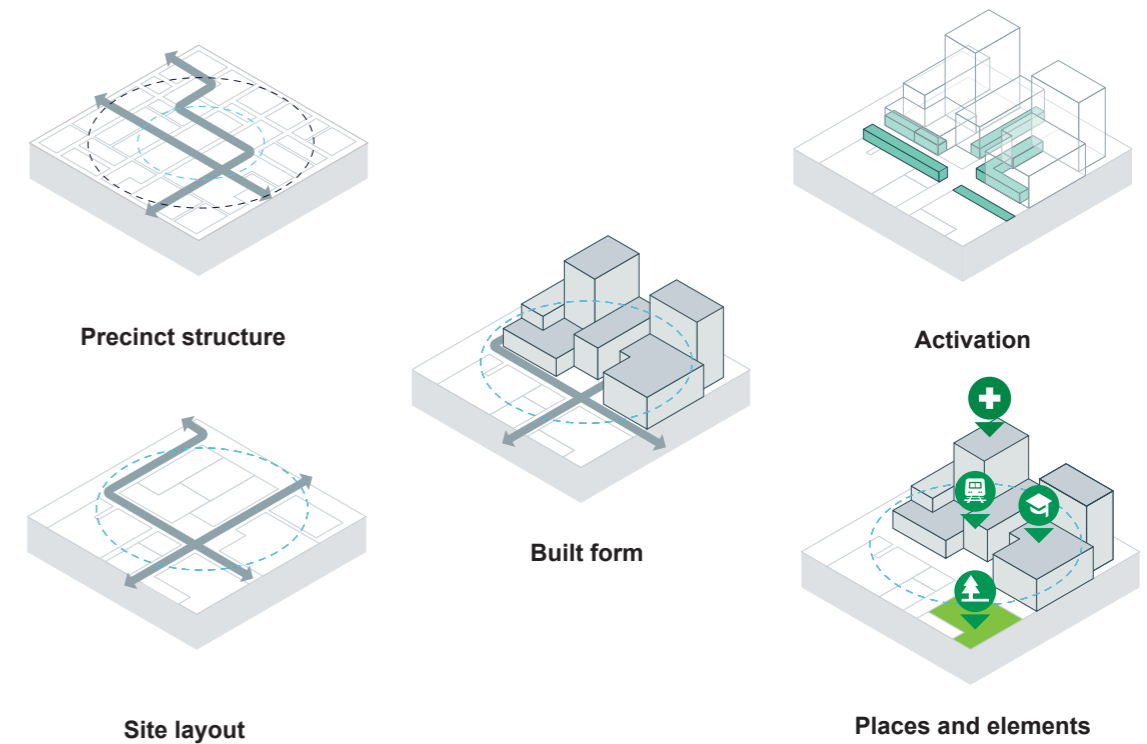


Figure 1.2: How urban design works across different scales of a project



2 Context

- 2.1 Policy context
- 2.2 The Vision for Cheltenham
- 2.3 SRL Urban Design Principles and Objectives
- 2.4 Urban context
- 2.5 Summary of existing conditions

2.1 Policy context

Plan Melbourne 2017–2050

Plan Melbourne is the Victorian Government’s long-term planning strategy for the future development of Melbourne, providing the strategic basis for the planned growth of the city in response to key challenges and opportunities facing Melbourne for the next 30 years. These include a growing population; remaining competitive in a changing economy; housing that is affordable and accessible; keeping up with the growing transport needs; and the need for climate mitigation and adaptation.

Plan Melbourne 2017-2050: Addendum 2019 updates the growth projections for Melbourne and identifies the need for: an additional 1.8 million jobs and 1.6 million dwellings to support Melbourne’s growth by 2051; and a transport network able to cope with an extra 11.8 million trips per day by 2050.

The Addendum recognises that Melbourne’s public transport network needs to develop to support the distribution of population and employment in line with growth estimates, stating that: *‘Melbourne needs a huge, well-planned investment that enables the city to grow while meeting these transport challenges’*.

SRL is recognised as providing opportunity to create a direct rail connection between Melbourne’s major employment, health and education precincts and activity centres outside the CBD. The role of 20-minute neighbourhoods in making Melbourne a city of inclusive, vibrant and healthy neighbourhoods is recognised.

The focus of Plan Melbourne is delivering more homes near transport, jobs and essential services in vibrant liveable and sustainable neighbourhoods.

Plan Melbourne identifies Cheltenham and Cheltenham-Southland as two Major Activity Centres and encourages the provision of more housing choices closer to jobs and public transport.

Victoria’s Housing Statement 2024–2034

Victoria’s Housing Statement 2024–2034 sets an ambitious goal for addressing Victoria’s housing needs.

The overall target is to increase housing delivery from 54,000 homes a year to 80,000 homes a year (equivalent to 800,000 homes over the next decade), with 70 per cent provided in established areas and 30 per cent in growth areas.

The Housing Statement focuses on five key areas to achieve these targets and other housing aspirations:

1. **Good decisions, made faster**

The Victorian Government is reforming Victoria’s planning system to boost housing supply across the state – clearing the backlog and giving builders, buyers and renovators certainty about how long approvals will take.

2. **Cheaper housing, closer to work**

The Victorian Government is making it easier to build more homes, with the best design standards, where Victorians want to live – that means going up and out, not just out.

3. **More social housing**

The Victorian Government is building more social and affordable homes across Victoria – launching Australia’s biggest urban renewal project on top of the Big Housing Build.

4. **A long-term housing plan**

We know our state will keep growing – and we know we’ll need a plan to manage that growth in the decades ahead.

Planning Policy Framework

The Victorian Planning Provisions (VPPs) are established under Victoria’s Planning and Environment Act 1987 as a state-wide reference document or template that a municipal planning scheme or planning scheme provision must be based on.

The VPPs set out state and regional planning policies relating to settlement, environmental values and risks, natural resource management, built environment and heritage, housing, economic development, transport and infrastructure.

The VPPs specifically reference SRL in:

Clause 11.01-1R (Settlement) – The strategy seeks to ‘develop the Suburban Rail Loop through Melbourne’s middle suburbs to facilitate substantial growth and change in major employment, health and education precincts and activity centres beyond the central city at an appropriate scale to address the needs of Melbourne’s rapidly growing population’.

Clause 72.08 (Background Documents) includes Plan Melbourne 2017-2050: Addendum 2019 as a reference document

Victoria’s Infrastructure Strategy 2021–2051

Victoria Infrastructure Strategy 2021–2051 provides a practical road-map for action over the next 30 years across a broad range of public policy areas including housing, energy, transport and social infrastructure.

The strategy seeks to address existing infrastructure pressures, demand on existing infrastructure, and assist with planning the timing and location of required and necessary new infrastructure.

Strong emphasis is placed on improving public and active transport connections in established areas by improving pedestrian, tram, bus and train infrastructure.

Recommendations focus on improving the connection and integration between these nodes of travel.

SRL will address will help achieve the objectives of the strategy, connecting activity centres, providing economic growth and housing opportunities, and improving access to jobs and services.

Victorian Infrastructure Plan 2021

The Victorian Infrastructure Plan 2021 lays out the infrastructure priorities of the Victorian Government.

The priorities include providing transport infrastructure to better connect people in Melbourne and regional areas to health, education and employment centres via public transport.

Urban Design Guidelines for Victoria 2017

The Urban Design Guidelines for Victoria 2017 support the delivery of functional and enjoyable places for people to live, work, and spend leisure time.

SRL aims to create neighbourhoods that foster community interaction and make it easy for people of all ages and abilities to live healthy lifestyles and engage in regular physical activity.

Better Apartment Design Standards for Victoria 2017

The Better Apartment Design Standards 2017 provide guidance for applicants, architects, building designers and planners for designing and assessing apartment developments to ensure their quality and functionality benefits the health and well-being of residents, and improves the environmental performance of apartment buildings.

SRL aims to deliver apartments that provide diverse, well-designed housing options to meet the long-term needs of Cheltenham’s growing community.



2.2 The Vision for Cheltenham

The Vision for Cheltenham outlines the long-term aspiration for the precinct including the Structure Plan Area.

The Vision for Cheltenham:

A true transit-oriented community where increased connectivity leads to more housing choices, new jobs and lifestyle experiences for everyone.

Cheltenham will be a place of increased creative energy and economic opportunity, with expanded retail, dining, recreation and entertainment options. The new station will become a hub of activity that connects to the enhanced Sir William Fry Reserve – creating a green heart for the precinct that supports local wellbeing and togetherness.

This will be an active and healthy community in the future, where you do not need to use a car for every trip. New and enhanced green corridors and shadier, more activated streets will connect the mosaic of open spaces and natural habitats – making it safer and more enjoyable for people to walk and cycle. Cheltenham will become a southern gateway, connecting Melbourne’s middle suburbs in the east with the south of Melbourne and the Bay.

More high quality homes will support a diverse community and ensure that Cheltenham builds on its enduring inclusivity as it welcomes more people into the area. Apartments, in places well supported by local amenity and public space, will provide increased housing diversity and lifestyle choice.

Cheltenham will be a vibrant economic hub. The intensified Moorabbin Industrial Area and Bayside Business District will be home to the next generation of makers, creators and specialist manufacturers – bringing future jobs and boosting the local economy.

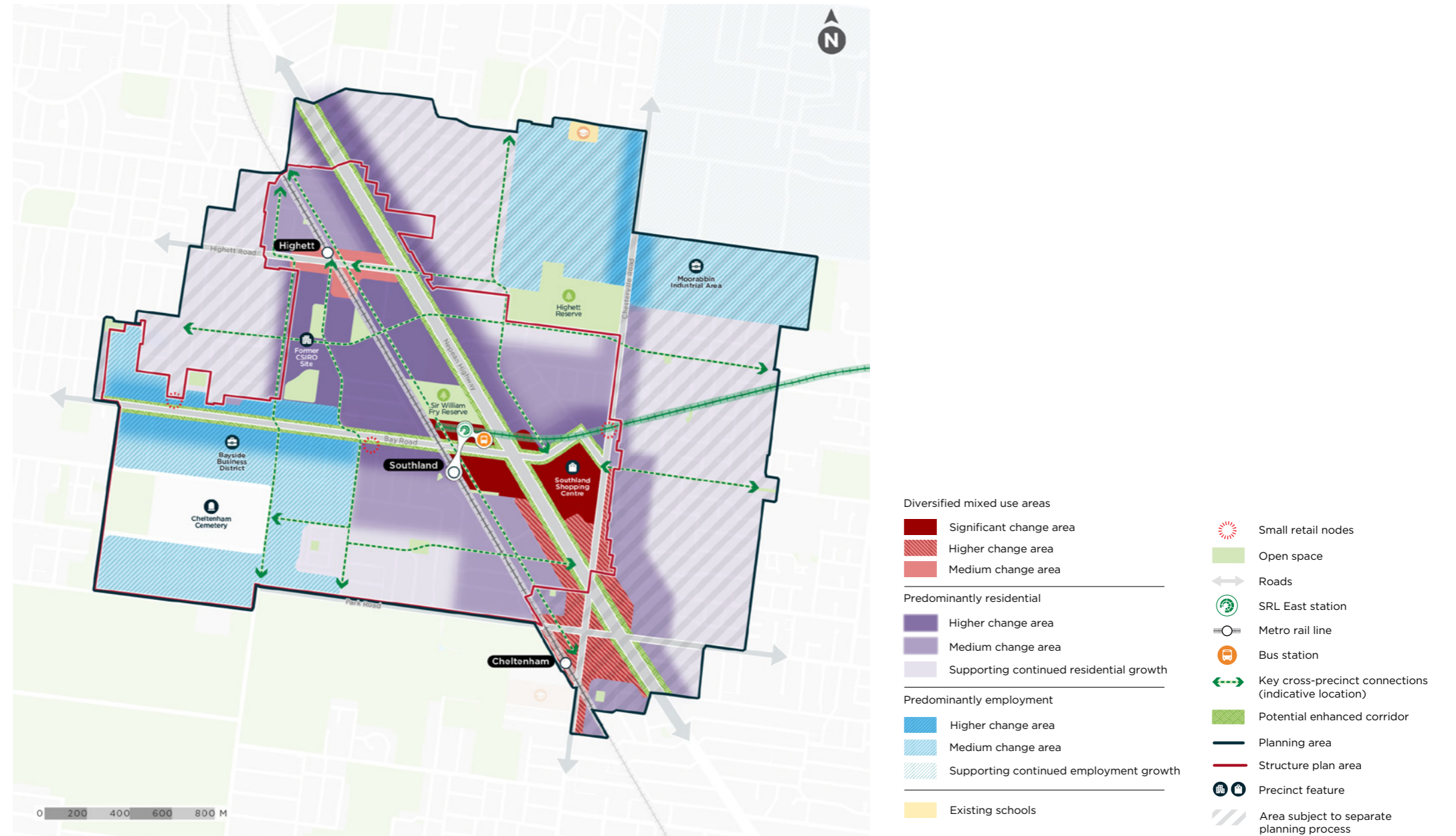


Figure 2.1: Cheltenham Conceptual Precinct Plan

2.3 SRL Urban Design Principles and Objectives

The urban design principles and objectives establish important foundational ideas for SRL as set-out in the SRL Urban Design Framework. They guide the approach to urban design, to ensure SRL precincts will continue to be great places for people to live, visit and work as Melbourne grows.

Framed around the three SRL objectives of 'productivity', 'connectivity' and 'liveability', SRL urban design principles and objectives adopt a holistic design approach to promote positive environmental, social, cultural, and economic outcomes.

Productivity

To support population growth and a focus on jobs and investment closer to where people live; strengthen access to, and investment in regional Victoria

Principle 1 Enduring



Places that are functional now and for generations to come

● Objective 1.1 Legacy

Create a design that is enduring and functional for generations to come, is easy to maintain and manage, is adaptable to changing uses with minimal reconstruction, and will age gracefully in concept and detail.

● Objective 1.2 Future ready

Ensure the design catalyses urban renewal, encouraging the evolution of the precincts and changing uses over time.

● Objective 1.3 Resilient

Ensure the infrastructure, buildings and places can survive, adapt and thrive when subjected to stresses and acute shocks such as changes in climate and technology, and extreme events.

● Objective 1.4 Environmentally sustainable

Optimise environmental performance and embed sustainability initiatives into the design response of the infrastructure project and surrounding precinct.

Principle 2 Diverse



Places that are inclusive and offer a diverse range of experiences.

● Objective 2.1 Strategic alignment

Facilitate integrated land use and transport solutions that respond to the precinct ambition and strategic transport and land use planning.

● Objective 2.2 Functional urban structure

Create an urban structure that ensures the adequate provision of public spaces that support a complementary mix of activities.

● Objective 2.3 Integration with context

Ensure new works accommodate travel routes and activities that connect to, integrate with and complement those in the wider precinct.

● Objective 2.4 Welcoming

Design places and movement networks that are welcoming, inclusive and pleasant for the whole community and encourage diverse social and cultural interaction within public spaces.

Connectivity

To support the development of an integrated transport network that increases travel options and access to places, and enhances the passenger experience

Principle 3 Connected



Places that are connected physically and spatially

● Objective 3.1 Linkages

Improve people's ability to walk, cycle and access public transport within a permeable urban structure that offers safe and efficient links and reduces barriers to movement.

● Objective 3.2 Transport integration

Facilitate seamless intermodal transfers prioritising public transport, walking and cycling networks, and design movement networks for safe interactions between transport modes.

● Objective 3.3 Legible

Reflect walking and cycling desire lines, promote intuitive wayfinding, reduce reliance on signage and minimise visual clutter and obstructions to key views.

● Objective 3.4 Green network

Facilitate green networks that link public and private open space and support urban ecology, biodiversity and cooling.

Principle 4 Accessible



Places that are socially connected, enjoyable and easy to walk and wheel around

● Objective 4.1 Universally inclusive

Enable all people to access, understand, use and enjoy spaces across the project area and surrounding precincts regardless of their age, size, ability or disability. To the greatest extent possible, move beyond baseline accessibility compliance towards support for genuine dignity, equity, social inclusion and independent mobility in the use of public places.

● Objective 4.2 Twenty-minute neighbourhoods

Support and enhance convenient and desirable access to everyday services, facilities and key destinations within a 20-minute walking distance from home.

● Objective 4.3 Active transport

Encourage walking and cycling for transport and recreation with integrated active transport infrastructure that can accommodate future growth and connects seamlessly with surrounding networks and with existing and proposed infrastructure.

● Objective 4.4 Safer Design

Design places that feel safe for the community using them. Increase passive surveillance and decrease barriers to participation in public space by acknowledging and accommodating the specific needs and experiences of all population groups within the community.

Liveability

To create more sustainable and resilient precincts in Melbourne's suburbs to generate new social and economic opportunities.

Principle 5 Enhancing



Places that enhance the local environment and community

● Objective 5.1 Heritage

Celebrate, respect and respond to Indigenous and non-indigenous cultural heritage, values and local history.

● Objective 5.2 Responsive

Design to respond, connect and build on the unique and valued social, cultural, physical and economic aspects of the precinct.

● Objective 5.3 Sensitive

Sensitively enhance landscape and urban realm outcomes; and minimise negative physical and visual impacts associated with the new infrastructure.

● Objective 5.4 Healthy

Design infrastructure and green networks, spaces and places that support active lifestyles, and encourage social interaction to improve physical and mental health.

● Objective 5.5 Quality design

Create a high-quality design that makes a positive contribution to the local built and natural environment.

Principle 6 Liveable



Places that are comfortable and welcoming

● Objective 6.1 Amenity

Improve urban amenity by realising site specific opportunities to enhance environmental comfort and create pleasant and attractive places that feel safe and are safe for people to move through and spend time in.

● Objective 6.2 Landscape values

Create a coherent and engaging landscape response that embraces natural qualities and community and cultural values.

● Objective 6.3 User experience

Enhance the journey and precinct experience for local communities, visitors and transport users.

● Objective 6.4 Places for people

Create inviting, people-friendly streets, open spaces and public places, and maximise the opportunities to create green places.

● Objective 6.5 Activation

Create activated, memorable and diverse places in the short and long term; manage interfaces and encourage a range of activities to deliver vibrant mixed-use neighbourhoods.

2.4 Urban context

Regional context

The Cheltenham Structure Plan Area is located approximately 18km south-east of Melbourne's CBD. It is in the local government areas of the City of Bayside and the City of Kingston. The Structure Plan Area straddles the Frankston rail line which connects Melbourne CBD to the southern suburbs. Nepean Highway runs parallel to the Frankston rail line and provides a strategic vehicular connection along the same desire-line.

Within and around the Cheltenham Structure Plan Area, several Major Activity Centres are situated along this primary rail / road corridor, including Cheltenham, Southland and Highett Activity Centres, less than 1km apart.

The Bayside Business District and Moorabbin Industrial Precinct employment districts are located to the south-west and north-east of the Structure Plan Area, connecting to Nepean Highway via Bay Road and Wickham Road respectively.

A combination of public open spaces and private sporting clubs establishes a substantial green zone to the south-west of the Structure Plan Area, demarcating the southward expansion of the urban fabric.

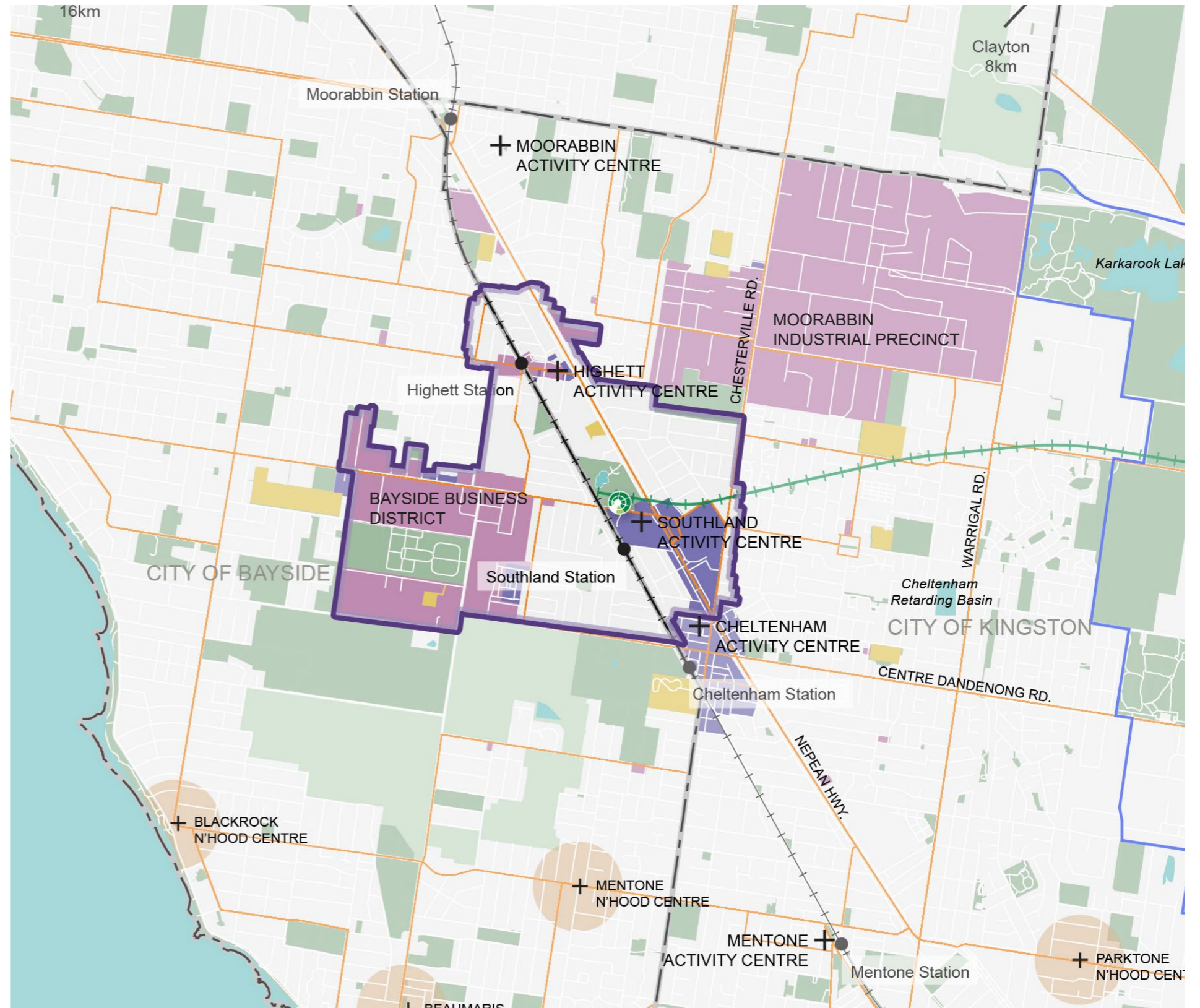


Figure 2.2: Regional Context

Legend

- | | | | |
|--|-----------------------|--------------------------|-------------------------------|
| | SRL station | | Existing bus route |
| | Structure Plan Area | | Frankston rail line |
| | SRL East alignment | | Existing train station |
| | LGA boundary | Strategic context | |
| | Urban growth boundary | | Neighbourhood Activity Centre |
| | Property | | Public Use Zone |
| | Open space | | Employment |
| | Private open space | | Mixed-use |
| | Water bodies | | |

2.5 Summary of existing conditions















Urban Structure

Nepean Highway and the Frankston rail line are the dominant organising elements in the Cheltenham Structure Plan Area. Major anchors within the area are generally positioned along this rail/road corridor, including the Highett Activity Centre located to the north, Southland Shopping Centre in the centre and the Cheltenham Activity Centre located south of the Structure Plan Area. Bay Road and Highett Road are the primary east-west streets and Chesterville Road is a primary north-south street. They intersect with the rail/road corridor shaping the three commercial/retail cores.

Major open spaces are dispersed within and around the periphery of the Structure Plan Area, with Sir William Fry Reserve providing a major open space in the centre of the Structure Plan Area.

Other employment areas within the Structure Plan Area include industrial and commercial land within the Bayside Business District to the west.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line
-  Activity Node - place of high pedestrian activity and attraction
-  Open space
-  Commercial/retail core
-  Commercial/retail
-  Mixed use
-  Traditional retail
-  Employment
-  Strategic Development Site
-  Highway
-  Key street/arterial road

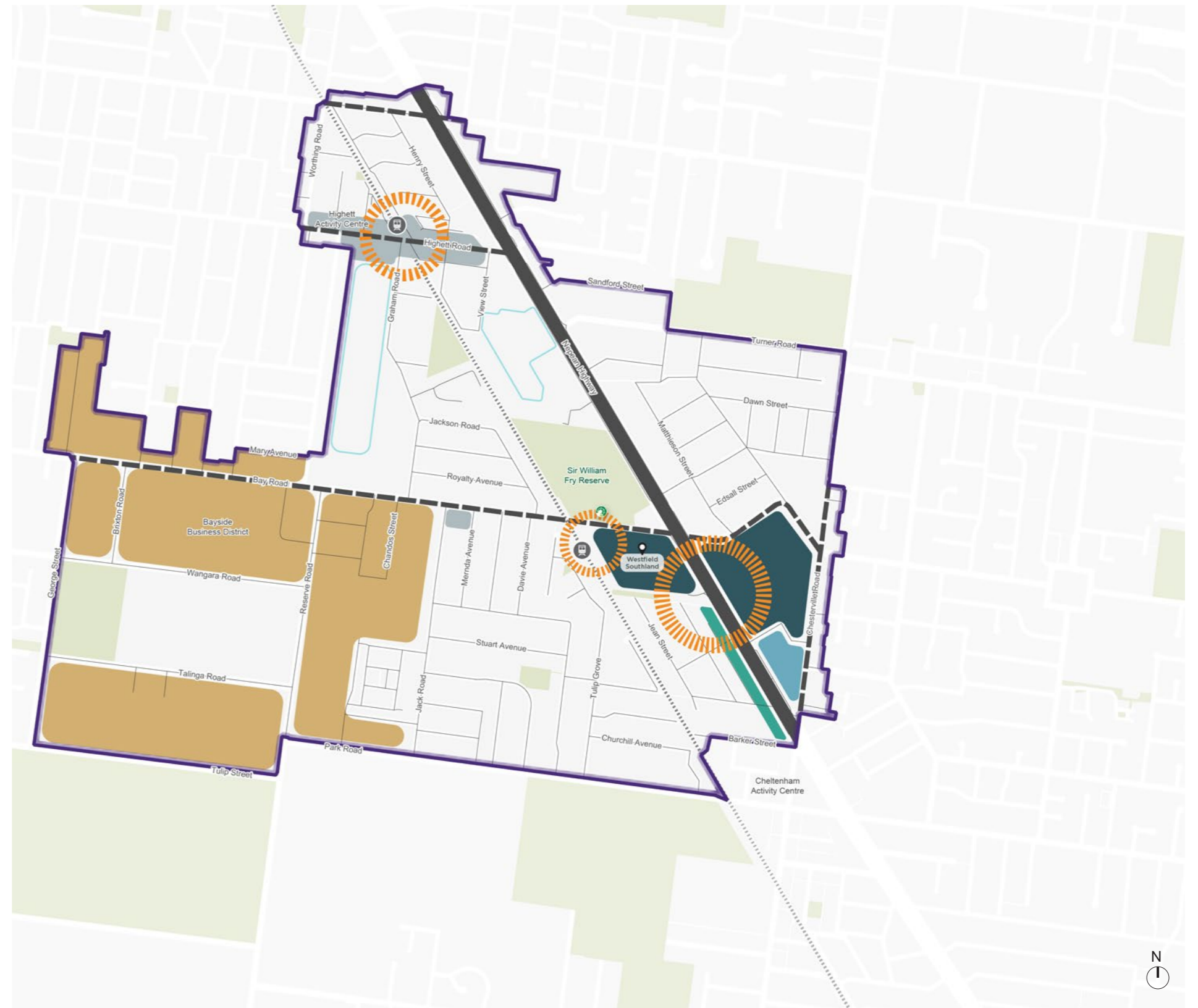


Figure 2.3: Existing Urban Structure

1:15,000 0 150 300 450 600M

Movement and Access













The Frankston rail line and Nepean Highway are major north-south movement corridors connecting the southern suburbs to the Melbourne CBD, and create a key feature of the Cheltenham Structure Plan Area. Located close together, these movement corridors also act as a significant barrier to east-west connectivity, in particular for pedestrians and cyclists.

The Structure Plan Area is well served by public transport, with three existing train stations on the Frankston rail line, the new SRL station, and associated bus interchange located adjacent to the SRL station. However, the existing Southland Station and the bus interchange are difficult to access for pedestrians.

The fragmented street network with long and irregular urban blocks and large land holdings such as the former Gasworks Site, Southland Shopping Centre and Cheltenham Cemetery, create complex and inefficient active transport routes.

Pedestrian crossings are present at several locations along the major movement corridors. At-grade crossings are concentrated around commercial uses such as Southland Shopping Centre, while four-way crossings are present at major intersections with Nepean Highway. However there is an overall lack of safe pedestrian crossings, limiting movement across the Structure Plan Area and creating a car-dominated pedestrian environment.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line
-  Clusters of large blocks
-  800 metres walkable catchment from SRL station entrances
-  800 metres walkable catchment from existing train stations
-  Open space
-  Key road connection
-  At-grade pedestrian crossing point
-  Grade-separated pedestrian crossing point
-  Barrier

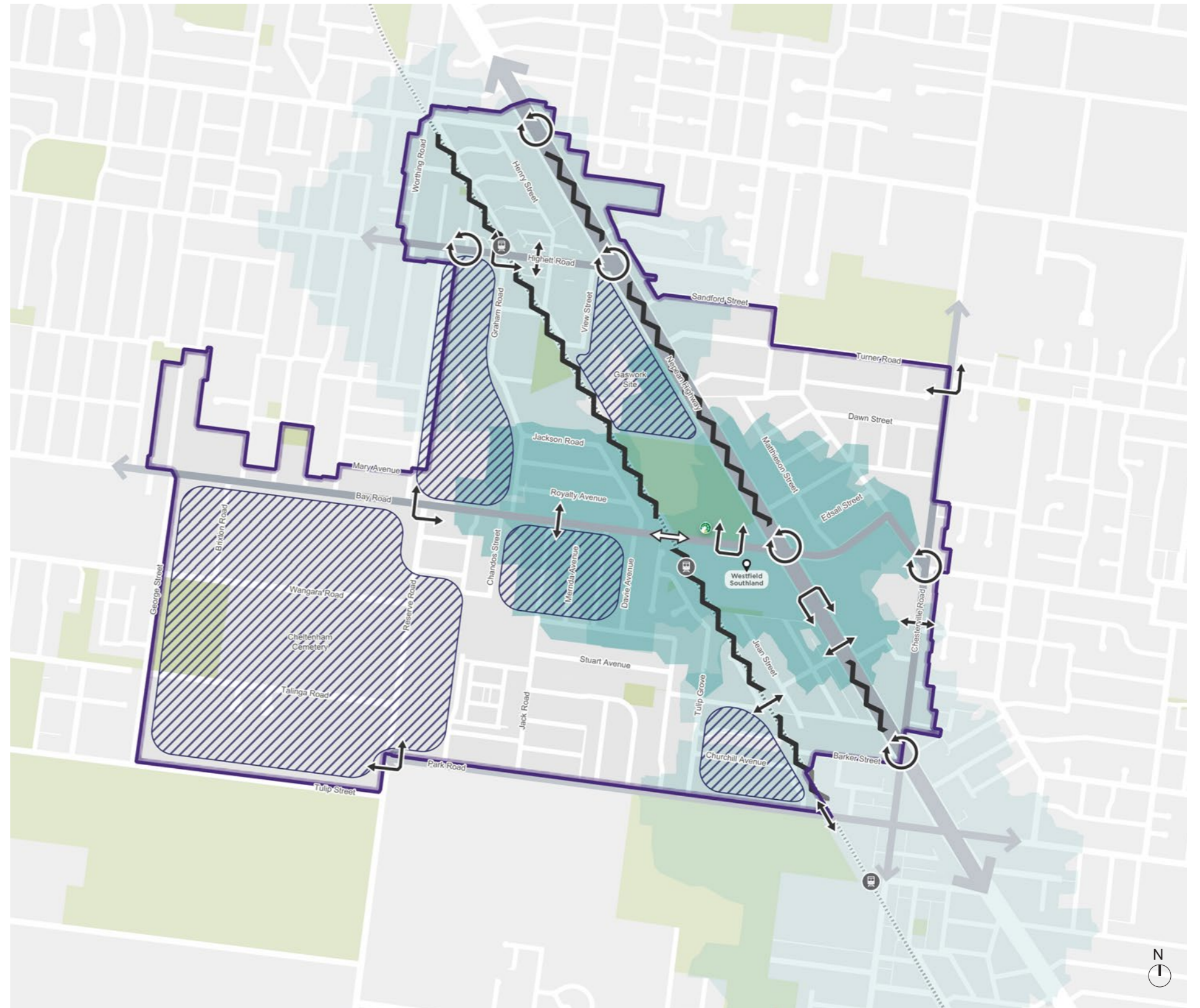


Figure 2.4: Existing Movement and Access

Built Form

The Cheltenham Structure Plan Area is characterised by a mix of building typologies of varying scales. The majority of the built form in the Structure Plan Area is low-density single/double-storey residential houses, units and townhouses. The land subdivision pattern and strata titling in these residential areas has resulted in a concentration of small lots and fine-grain built form south of Southland Shopping Centre and east of Nepean Highway.














Mid-rise developments are mainly concentrated around Southland Shopping Centre, north of Sir William Fry Reserve and the Highett Activity Centre. Large, underutilised land holdings providing major development opportunities are mainly located between Bay Road, Highett Road and the Bayside Business District.

The Highett Activity Centre is a traditional neighbourhood-scale activity centre with fine-grain retail buildings that shape a 'main street' character.

The Bayside Business District is a large cluster of industrial land mainly comprising low-profile, large warehouse buildings with a high site coverage.

Heritage elements in the Structure Plan Area include the chimney on the Former Gasworks site, as well as Cheltenham Cemetery and some residential properties along Park Road.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line
-  Strata titled lots
-  Mid-rise buildings
-  Low-rise buildings
-  Heritage
-  Open space
-  Area with predominantly mid-rise to high-rise buildings.
-  Road width greater than 40 metres
-  Road width 30 to 40 metres
-  Road width 20 to 30 metres

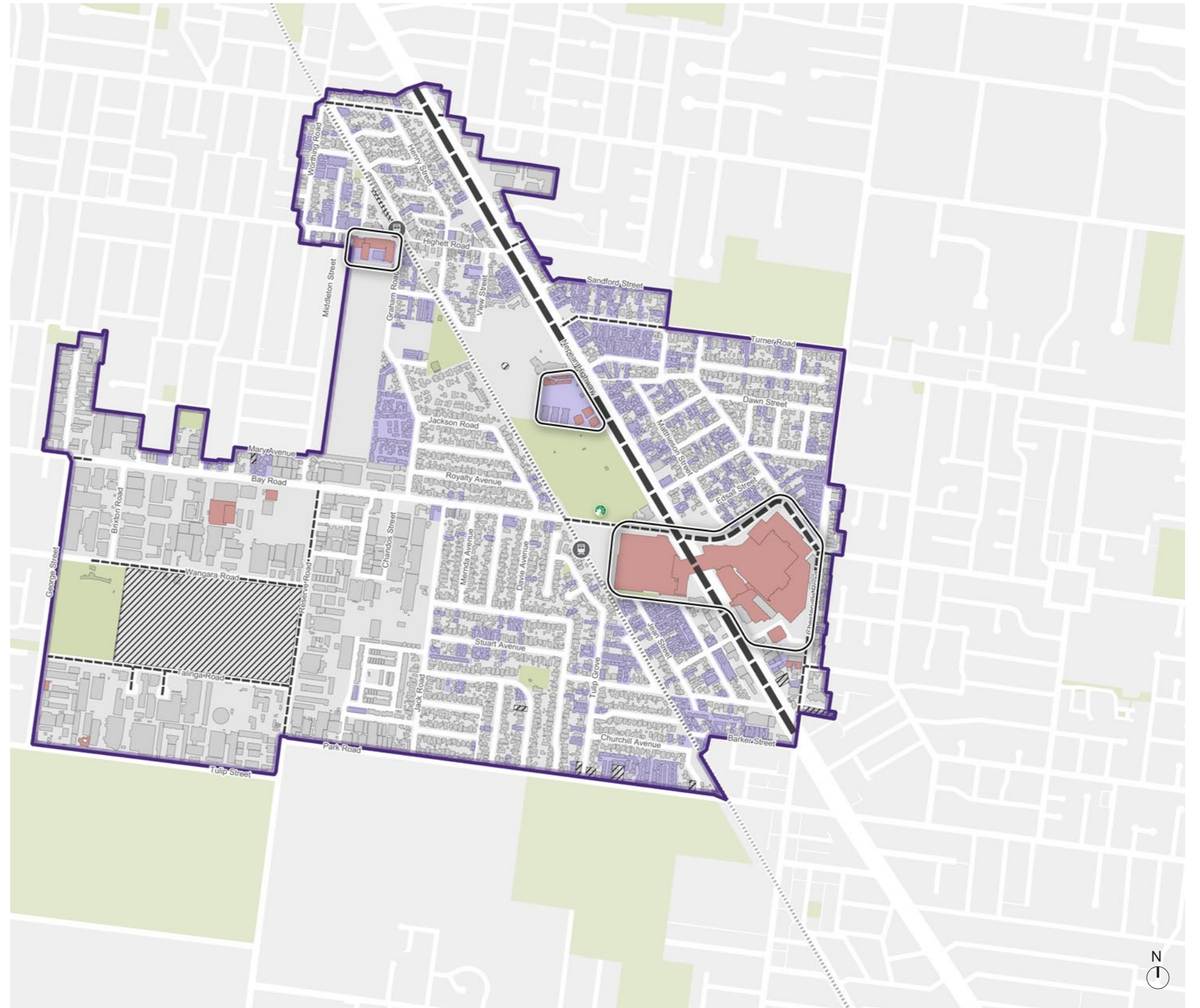


Figure 2.5: Existing Built Form

1:15,000 0 150 300 450 600M

Topography and Vegetation

The tree canopy density varies across the Cheltenham Structure Plan Area. The Cheltenham Cemetery and Southland Shopping Centre and Bayside Business District have poor tree canopy cover, resulting from large format built form and excessive hardstand surfaces, such as large car parking areas. There are areas of medium tree density in the key public open spaces and lower-density residential areas such as Pennydale. Many other residential areas affected by residential unit development, particularly east of the Frankston rail line, have low tree canopy densities.

Vegetation is generally a mix of native and exotic species and includes shrubs, garden beds, lawn areas, and tall canopy trees in private gardens and in local streets.

The topography across the Structure Plan Area is generally flat with a north-west to south-east ridgeline pattern creating a flat longitudinal profile along the Frankston rail line and Nepean Highway.

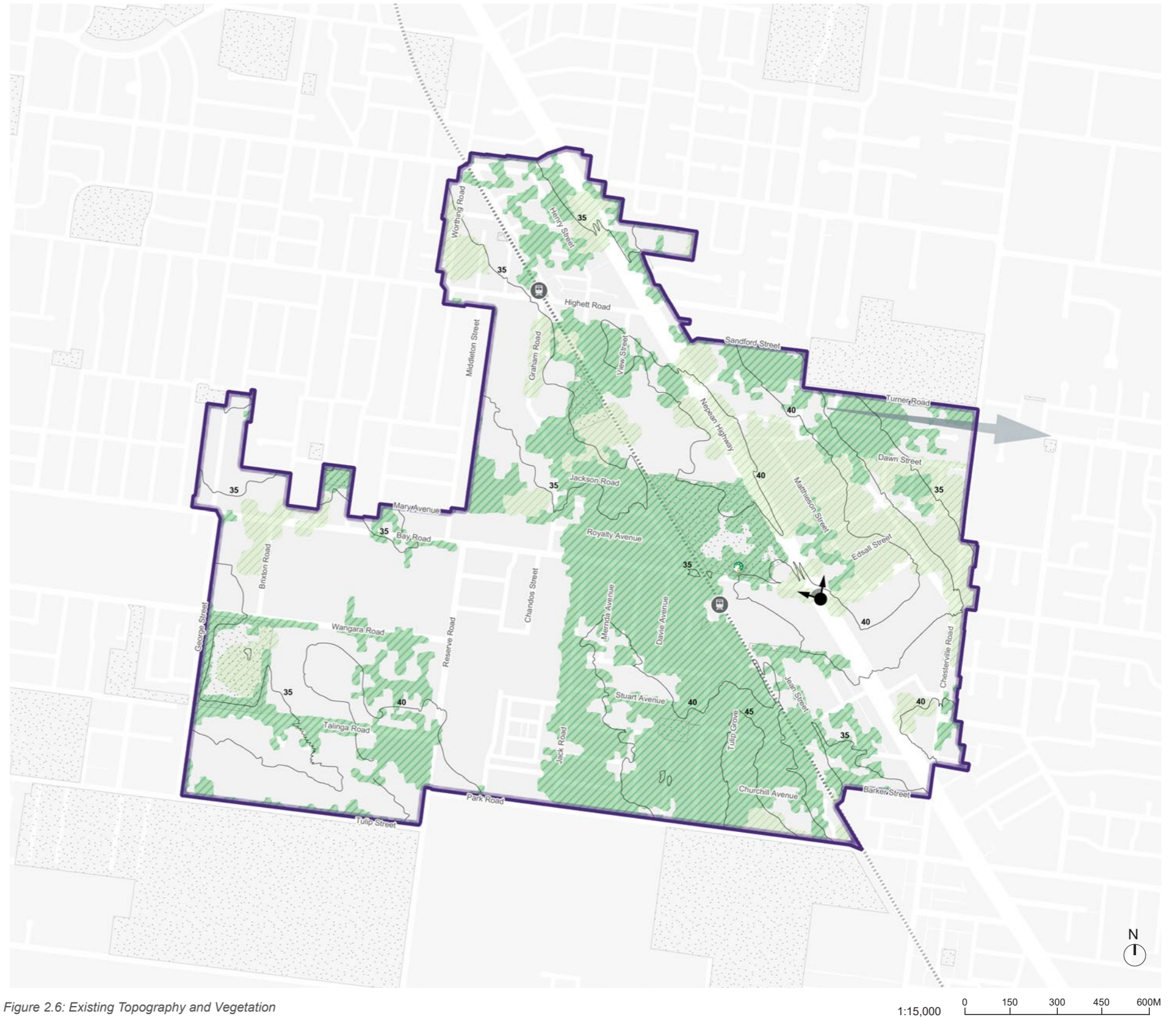










Figure 2.6: Existing Topography and Vegetation

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line
-  Medium tree density
-  Low tree density
-  Open space
-  City views
-  Key views
-  Contours every 5 metres

Land use

The Cheltenham Structure Plan Area is predominantly residential, characterised by low-density detached housing. Commercial activity is concentrated along Nepean Highway corridor and around each of the three existing train stations. There is also extensive commercial and employment activity within the Bayside Business District to the west.











Southland Shopping Centre is located on Nepean Highway, approximately halfway between the Hightett and Cheltenham Activity Centres. It has an extensive footprint and is regionally significant for its retail offerings. Commercial uses extend from Southland Shopping Centre along Nepean Highway down to the Cheltenham Activity Centre. These are predominantly large-format highway-oriented retail.

The Hightett Activity Centre is a predominantly fine-grain shopping strip with a supermarket, dining, offices, and recently some medium-density residential buildings along Hightett Road.




The width of Nepean Highway significantly fragments the Structure Plan Area, creating barriers to pedestrian movement between residential and activity areas.

Public open spaces are scattered across the residential areas with Sir William Fry Reserve at the centre of the Structure Plan Area. Hightett Reserve and Cheltenham Park are two other large public open spaces located immediately to the south and north of the Structure Plan Area.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line
-  Residential
-  Commercial/retail
-  Employment
-  Mixed use
-  Open space
-  Public use

Land use clusters

-  1 Retail area
-  2 Bayside Business District
-  3 Hightett Activity Centre

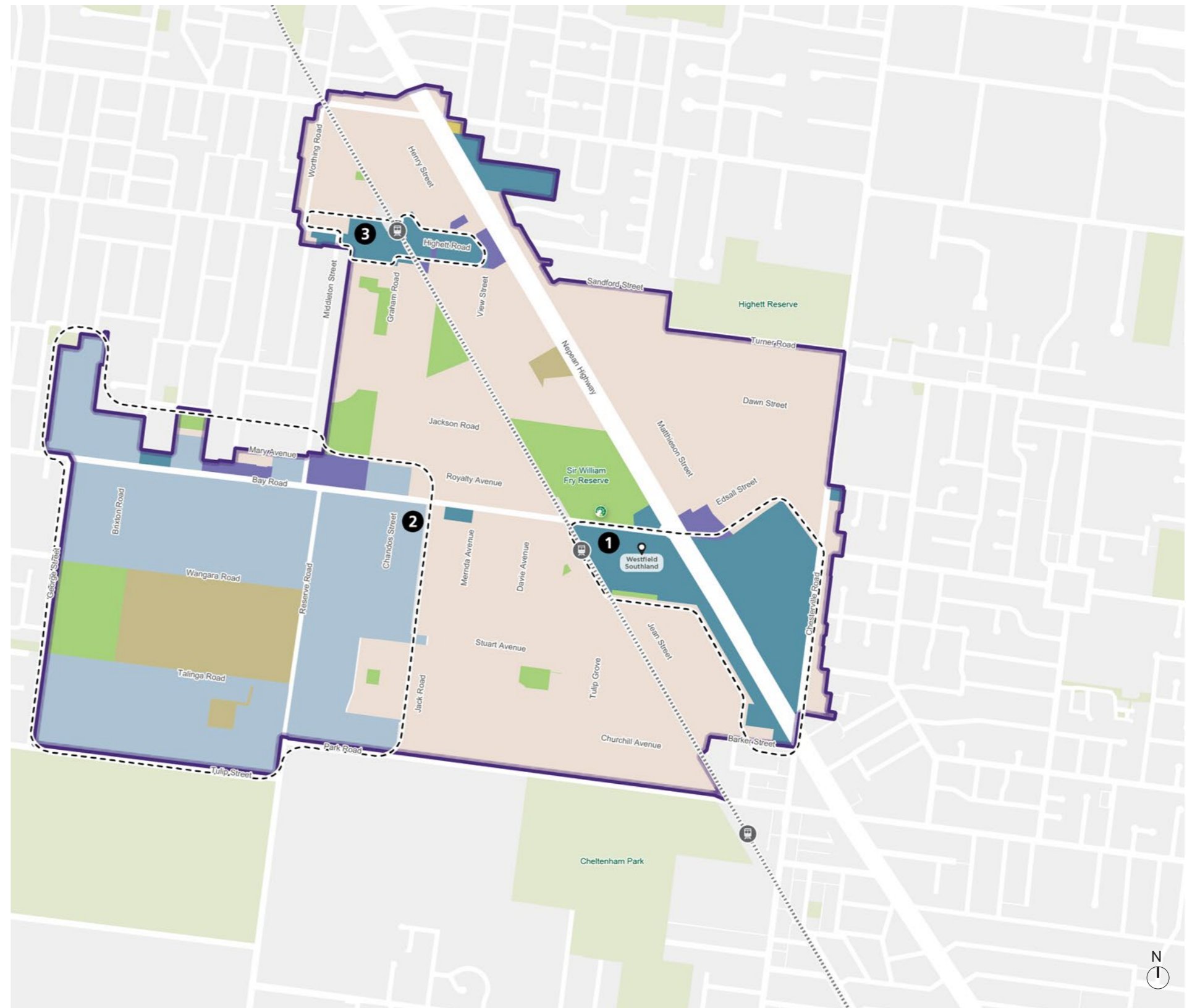


Figure 2.7: Existing Land use

1:15,000 0 150 300 450 600M



3 Public realm

3.1 Introduction

3.2 Summary of analysis

3.3 Public realm design directions

3.4 Public Realm Framework

3.1 Introduction

This Section summarises the public realm analysis and proposes the future public realm and open space network across the Structure Plan Area, to achieve the Cheltenham Vision.

The design directions, strategies and Public Realm Framework build upon the following strategies and background documentation developed by SRLA and Victorian Government, and useful precedents developed by the City of Melbourne (CoM):

- **Suburban Rail Loop East - Urban Design Strategy** (Suburban Rail Loop Authority 2021)
- **Open Space Assessment** (prepared by AJM Joint Venture for Suburban Rail Loop Authority 2024)
- **SRL East Structure Plan – Aboriginal Cultural Heritage Technical Report** (prepared by AJM Joint Venture for Suburban Rail Loop Authority 2023)
- **SRL East Structure Plan Integrated Water Management Strategy** (prepared by AJM Joint Venture for Suburban Rail Loop Authority 2024)
- **Trees for Cooler and Greener Streetscapes:** Guidelines for streetscape planning and Design (Victoria State Government, Environment, Land, Water and Planning 2019)
- **Future Streets Framework:** To guide the design and Delivery of Streets in the Hoddle Grid (City of Melbourne, 2023)
- **Nature in the city:** Thriving Biodiversity and Healthy Ecosystems (City of Melbourne, 2017)
- **Living Melbourne:** Our metropolitan urban forest The Nature Conservancy and Resilient Melbourne, Melbourne (2019)
- **Movement and Place Framework** (Victorian State Government, Department of transport)
- **Open Space for Everyone** (Victorian State Government, Department of Transport)
- **SRL Public Space and Public Life Study Report** (Gehl, 2023) (see SRL East Structure Plan - Gehl Public Space and Life Study - Attachment B)
- **SRL East Transport Technical Report** (Suburban Rail Loop Authority, 2024).

The Public Realm Framework has been informed by thorough analysis of the existing public realm conditions (See Appendix C), and extensive research of best-practice public realm typologies (see SRL East Structure Plan - Urban Design Supporting Research - Attachment A).

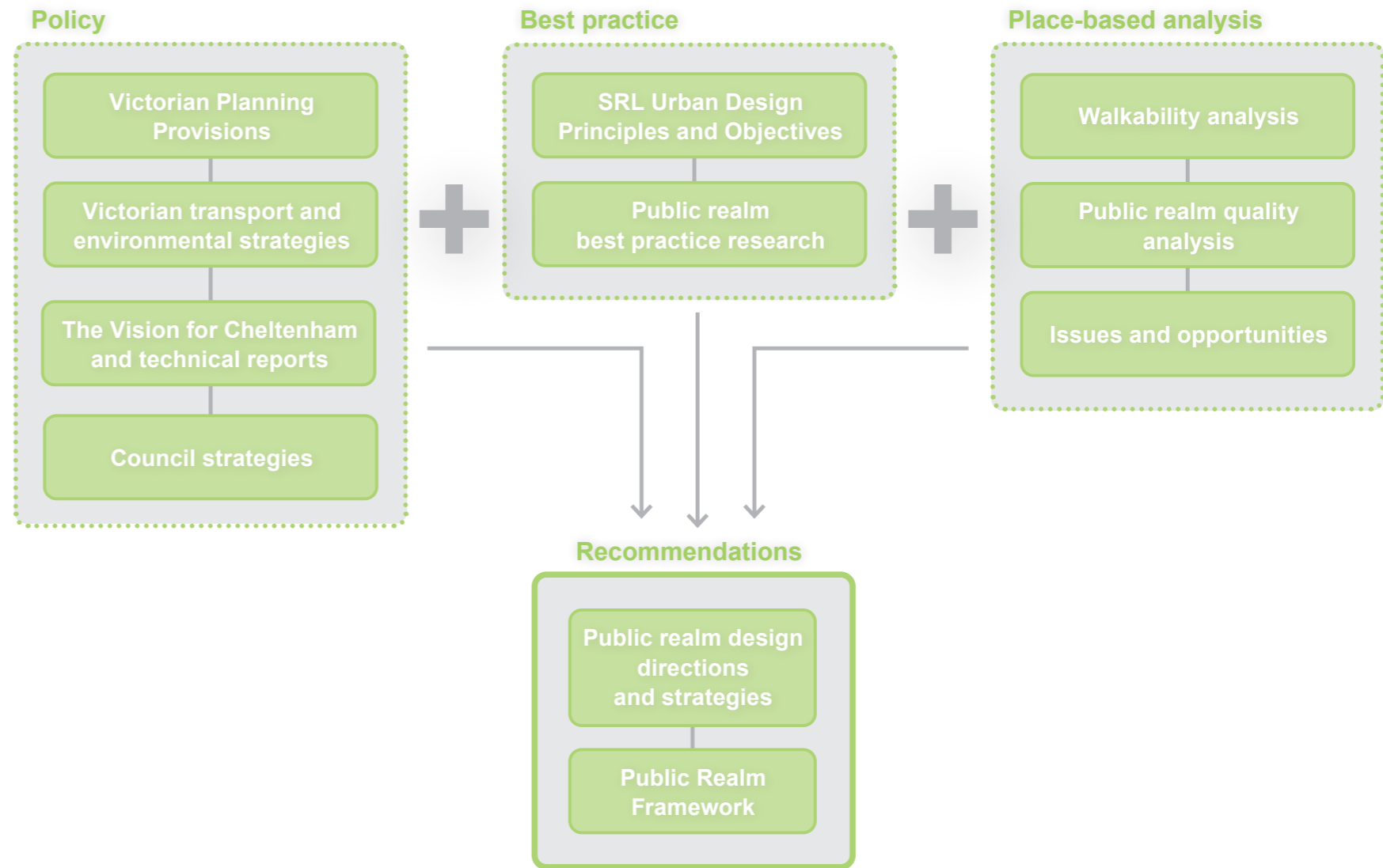


Figure 3.01: Public Realm Framework methodology summary

3.2 Summary of analysis

Extensive analysis has been conducted to identify the issues to be addressed and opportunities to be realised in delivering a public realm that supports the Vision for the Cheltenham Structure Plan Area.

This summary focuses on the key elements that should be addressed to deliver a public realm that encourages active and public transport use, catering for the projected development growth within the Structure Plan Area.

The Public Space and Public Life Study - Urban Baseline Study (Gehl, 2023) also informed this report (see SRL East Structure Plan - Gehl Public Space and Life Study - Attachment B). The Gehl study uses a similar method and has similar findings.










Open space distribution and walkable access

There are 20 individual areas of public open space with a combined area of approximately 420,000 square metres within 1.6km of the proposed SRL station at Cheltenham. These parks are primarily owned and/or managed by Bayside and Kingston City Councils, and include Pocket, Neighbourhood, Community, and four District catchment parks.

The Cheltenham Structure Plan Area currently has low walkable access to public open spaces. Lack of permeability in the street network in Cheltenham contributes to a number of small gaps in walkable access to open space. Nepean Highway and the Frankston rail line impact connectivity and walkable access to a number of open spaces.

Figure 3.02 provides an overview of the public open space in the Structure Plan Area and the gaps in access to open space. These gaps may be addressed by improving access or providing new open space.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  SRL East alignment
-  Community park
-  Conservation park
-  Landscape park
-  Sports park
-  Gap in 400 metres walkable access to public space

Note: Categorisation of open space sourced from Draft Open Space Assessment (prepared by AJM Joint Venture for Suburban Rail Loop Authority 2024).

Note: This analysis does not include planned or proposed open spaces. Refer to Public Realm Framework (Figure 3.09) for proposed open space.

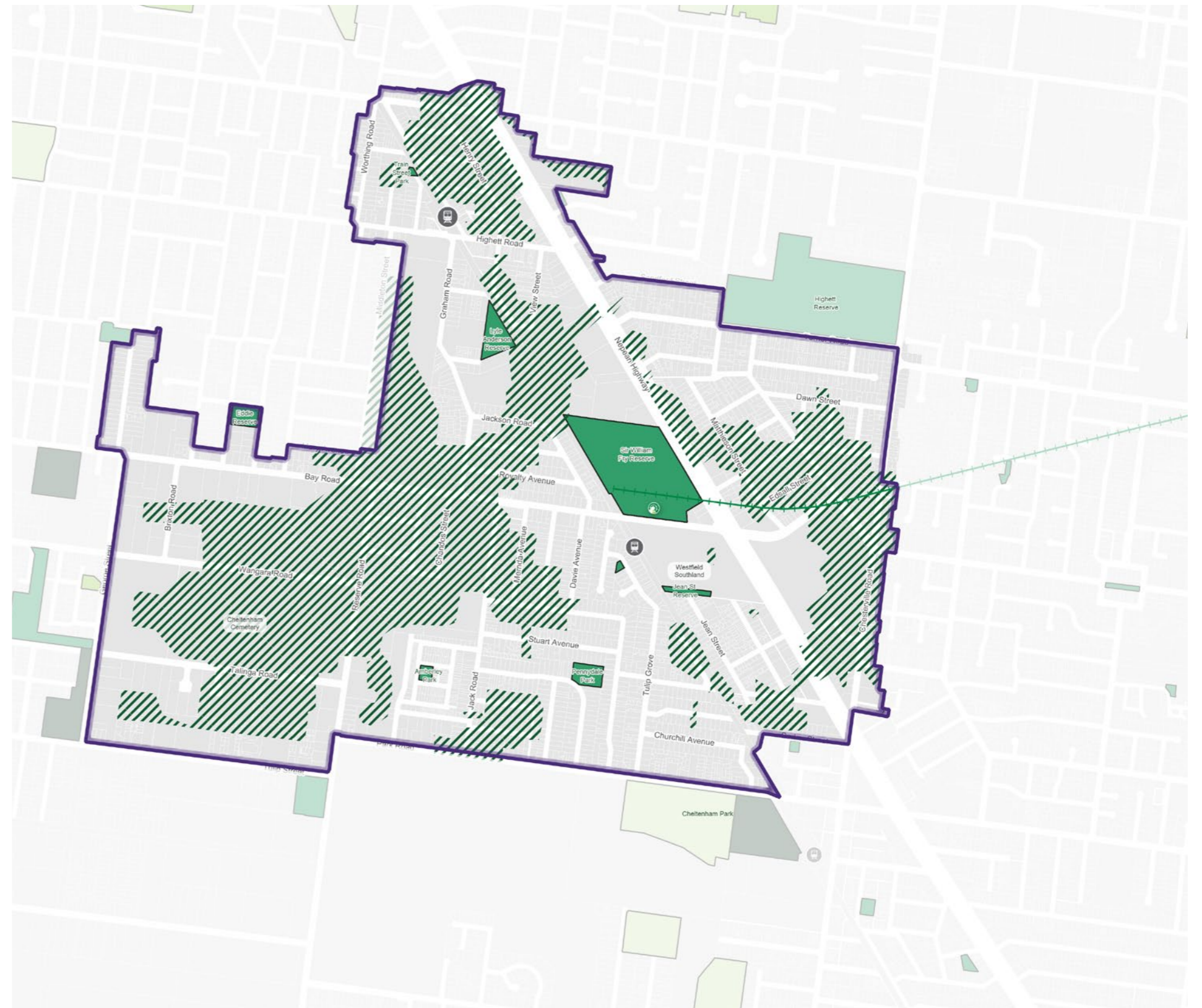


Figure 3.02: Open Space Analysis

Walkability and strategic linkages

Good pedestrian connectivity to public transport (including the SRL station at Cheltenham) and public open spaces will be critical in achieving the Vision for Cheltenham and unlocking the development potential of the Structure Plan Area.

The walkability analysis of the Structure Plan Areas identifies locations with poor pedestrian access to the SRL station at Cheltenham, gaps in the walkable catchment to public open spaces and the indicative location of strategic linkages required to address these issues.

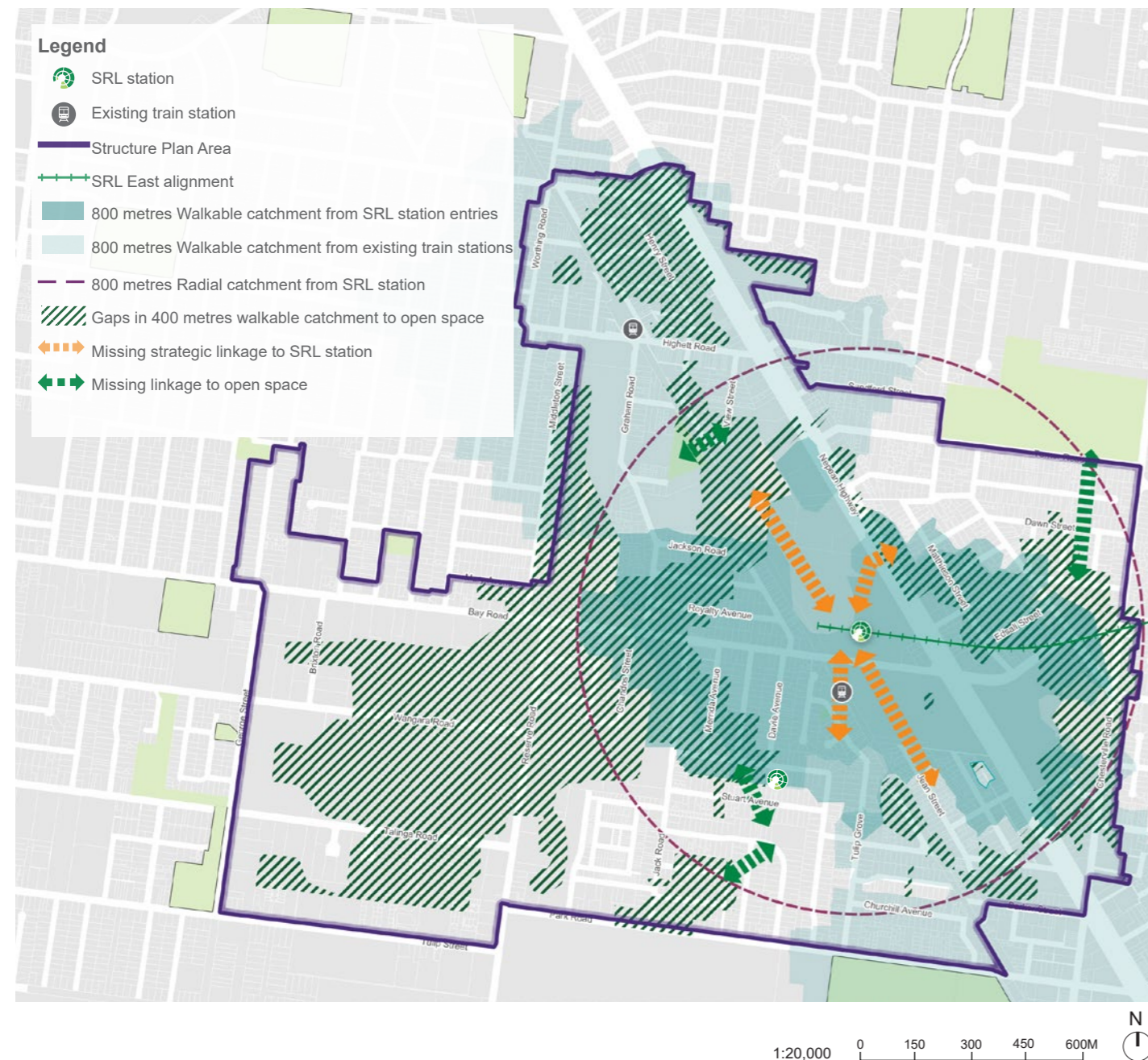


Figure 3.03: Walkability Analysis

Local permeability and optimal block sizes

A permeable movement network is required to support active and public transport within the Structure Plan Area.

The commercial/retail core should have a maximum block length of 100 metres. All other areas should have a maximum block length of 180 metres. The permeability analysis identifies blocks that do not achieve these standards, and therefore where through-block links should be considered.

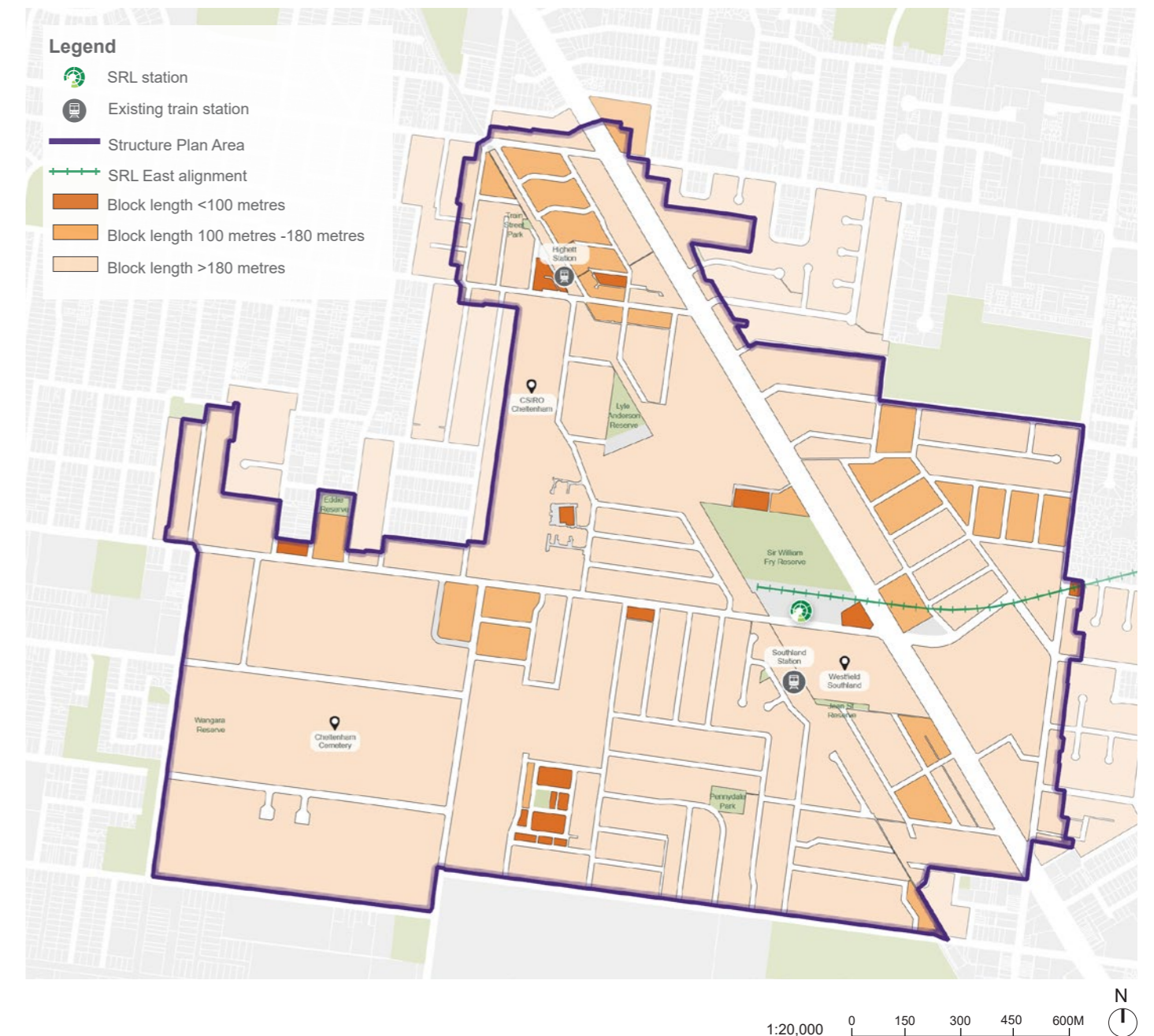


Figure 3.04: Permeability Analysis

Street quality

An assessment of the quality of the pedestrian experience on all streets within the Cheltenham Structure Plan Area has been undertaken. Figure 3.05 summarises the findings of this assessment. It provides a general indication of the public realm quality within the Structure Plan Area, and the variation between streets.

However, it should be noted that this qualitative assessment does not reflect the role of each street in the Public Realm Framework, which was subsequently identified. Therefore, further work is required before street improvement requirements can be determined.

More detail of the public realm quality assessment is provided in Appendix C.

The Gehl 'Public Space and Public Life Study' uses a similar method and has similar findings. For more details of this study refer to Attachment B.

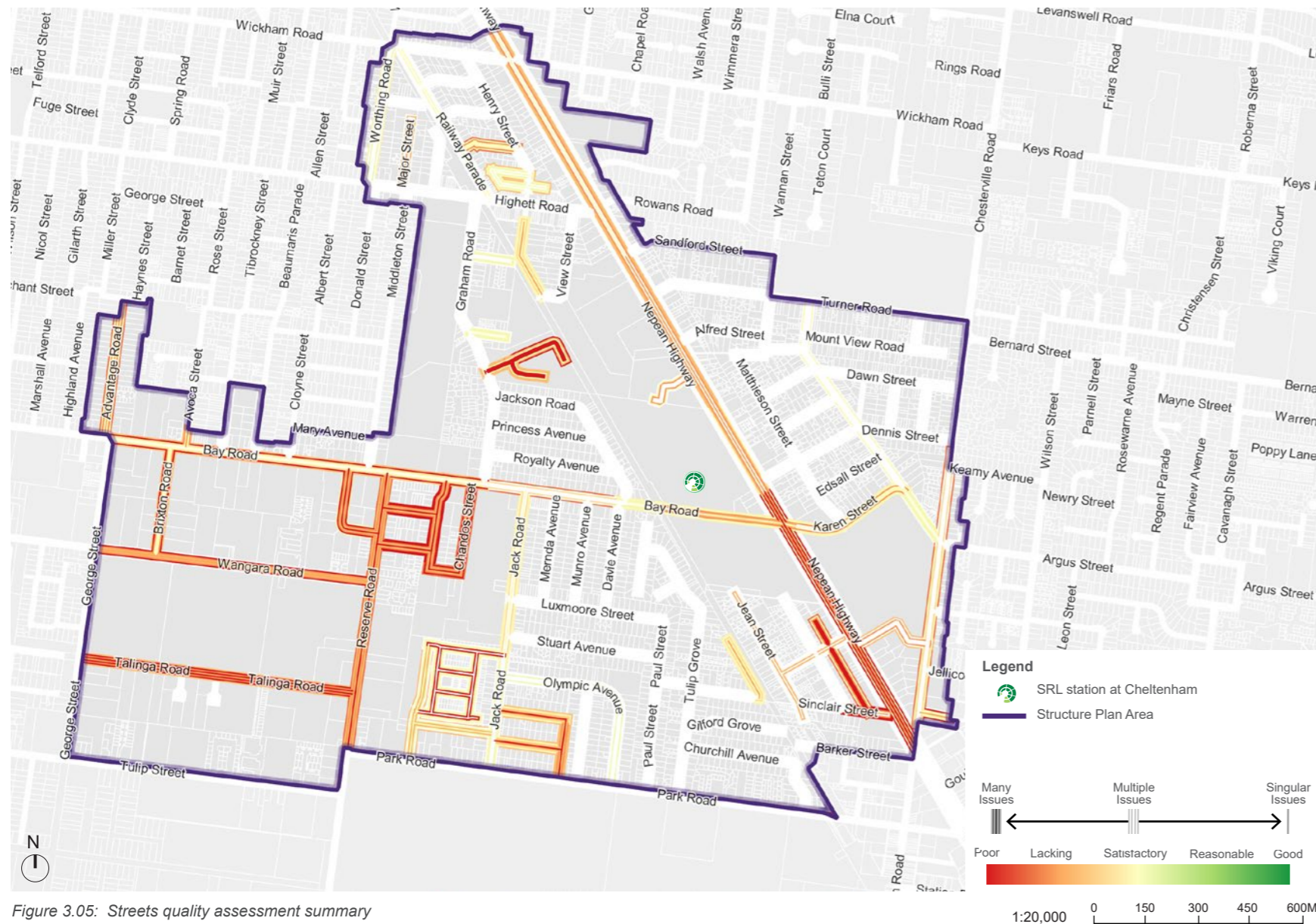

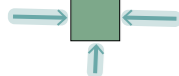













Figure 3.05: Streets quality assessment summary

Issues and opportunities

Figure 3.06 shows the key issues and opportunities the public realm analysis identified in the Cheltenham Structure Plan Area.

These key issues and opportunities include:

-  Poor pedestrian amenity around existing Southland Station and Southland Shopping Centre.
-  Leverage existing key open spaces by increasing connectivity to them, and further enhancing the quality and facilities within the parks.
-  Opportunity to increase permeability through new links.
-  Overcome Nepean Highway as barrier and improve pedestrian amenity and landscape quality along the corridor.
-  Manage the interfaces of the rail line with the public realm, shopping centre, and private properties, and seek opportunities for improving corridor connectivity.
-  Improve connectivity between the SRL station at Cheltenham, retail core and surrounding area.
-  Improve quality of public realm or activation in localised areas.
-  Consideration of future amenity upgrades and better integration into the broader public realm network.
-  Planned additional open space.

- Legend**
-  SRL station
 -  Existing train station
 -  Structure Plan Area
 -  SRL East alignment

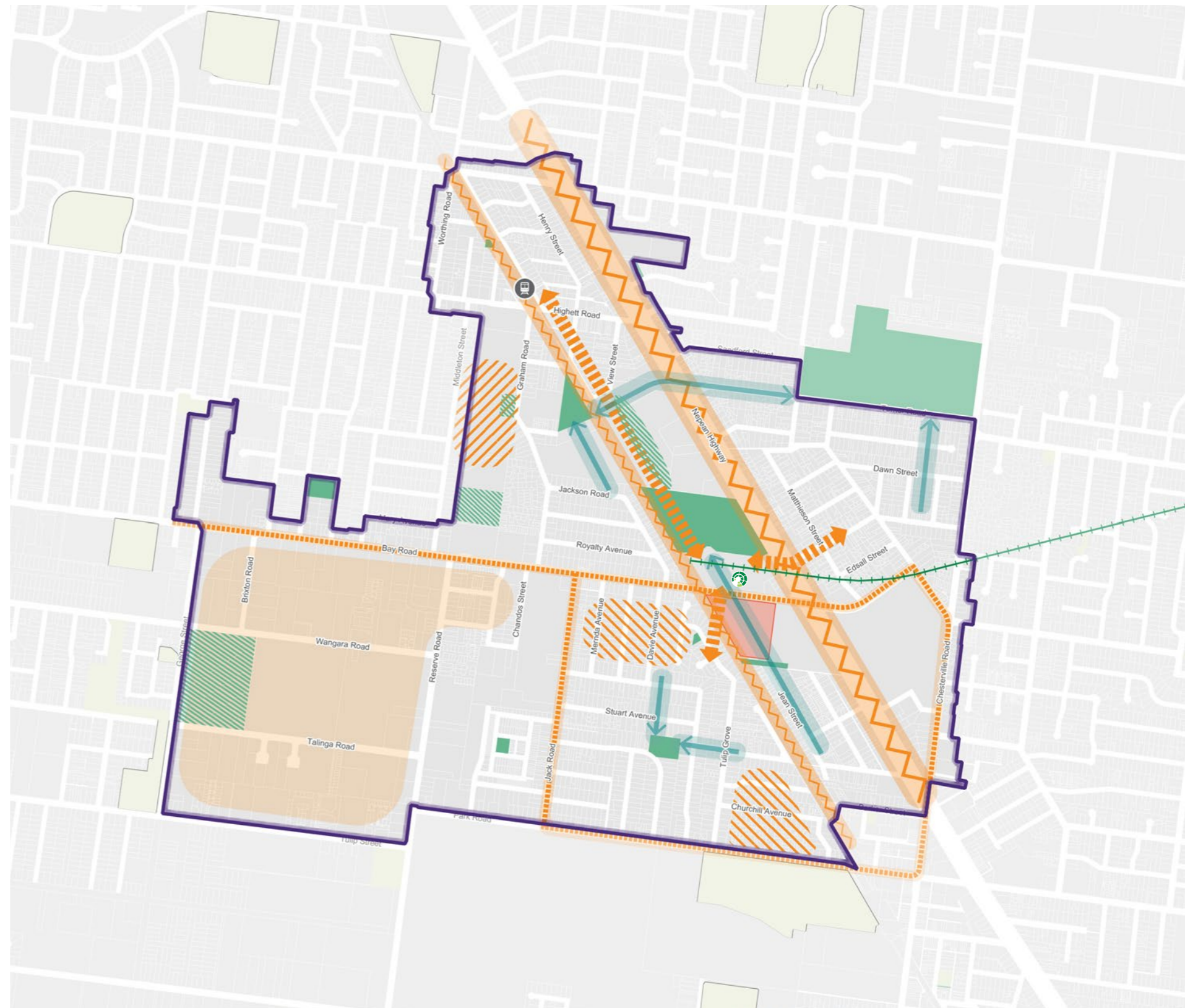
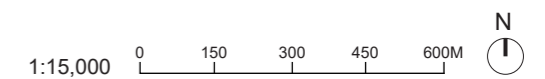


Figure 3.06: Key Issues and opportunities



3.3 Public realm design directions

The public realm design directions are proposed to achieve the Cheltenham Vision.

The design directions informed the development of the Public Realm Framework in Section 3.4 and the public realm outcomes identified in Section 6.

The order of the design directions does not imply an order of priority.

Design Direction 1: Ensure streets are inviting places that support community life

Why is this important?

Attractive streets are important for a thriving public life and to encourage healthy active lifestyles – and to draw residents, workers, visitors, businesses, developers and investors to the Structure Plan Area.

People are more likely to inhabit the public realm and choose to cycle or walk if streets are welcoming, safe, attractive and comfortable. A well inhabited public realm is self-reinforcing, with the presence of people further contributing to its appeal, and the success of commercial enterprises.

Streets also provide the address and setting for development, so their quality influences the appeal of the area to attract investors and developers. Again, this is self-reinforcing – as density increases, so does public realm use and footfall, which in-turn further increase the attractiveness for development to locate to the area.

Safety

In order for streets to be inviting for walking and social life, they need to be safe and provide a feeling of safety. Safeguarding pedestrian safety includes ensuring pedestrians are protected from traffic movement and have safe and convenient opportunities to cross streets. Pedestrians also need to have a perception of safety from crime and antisocial behaviour during the day and night.

Street experience

Streets not only provide a means to travel to a destination, they also provide for a social and experiential journey. The opportunity for social interaction and an interesting experience is part of the attraction of a successful urban area, and reinforces the appeal of walking over other travel modes. This includes space for people to stand and linger, sit or gather, and an engaging sensory experience.

Distinct streetscapes

Distinct streetscapes are more memorable. This supports the legibility and appeal of a successful urban area for pedestrians and cyclists.

A memorable and appealing street has a range of qualities which may include:

- A human scale
- Street trees and landscaping
- Protection from sun in summer, rain and wind
- Clean and well maintained surfaces and street furniture
- A pleasant sensory experience.

Alignment with SRL Urban Design Framework:

Design Direction 1 will help to achieve the following SRL Urban Design Objectives:

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD2.3 Integration with context
- Objective UD2.4 Welcoming
- Objective UD3.1 Linkages
- Objective UD4.1 Universally inclusive
- Objective UD4.4 Safer design
- Objective UD5.1 Heritage
- Objective UD5.2 Responsive
- Objective UD5.4 Healthy
- Objective UD5.5 Quality design
- Objective UD6.1 Amenity
- Objective UD6.4 Places for people
- Objective UD6.5 Activation.

What is happening now in Cheltenham?

Hightt Road is one of few streets within the Cheltenham Structure Plan Area which successfully supports and encourages public life and activity. Hightt Road is predominantly lined by fine-grain commercial buildings, with some mid-rise residential development emerging. Larger format commercial uses are located at the western end of the shopping strip, leading to sparse canopy coverage in this area.

Many streets do not provide the level of pedestrian, cycle, public transport priority or function desired. In particular:

- Nepean Highway and Bay Road are dominated by vehicle traffic, detracting from their appeal for walking and cycling. This is especially problematic just north of Bay Road and on Bay Road between the Frankston rail line and Nepean Highway
- The local streets do not provide especially inviting pedestrian links to key destinations such as the activity centres/train stations and larger parks.

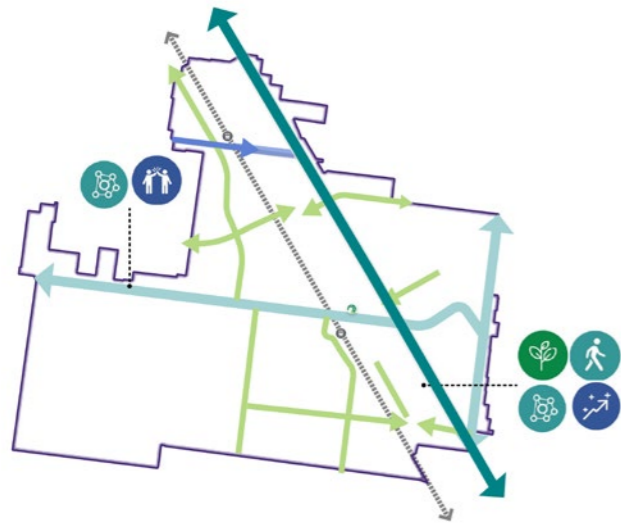
Bay Road

“A car centric road that connects important amenities in Cheltenham but few qualities for pedestrians” - SRL Public Space and Public Life Study Report (Gehl, 2023)

How can this direction be achieved in Cheltenham?

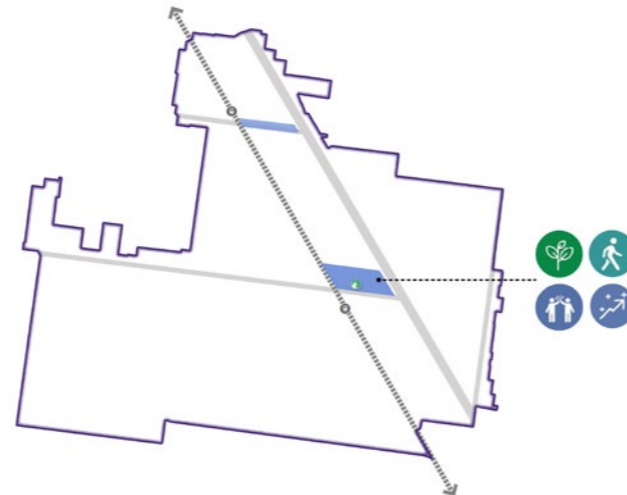
Strategy PR1: Street hierarchy and identity

Establish a street hierarchy which supports each street's movement and place function, and place identity.



Strategy PR3: Activity Streets

Prioritise pedestrian movement and activity in streets and lanes within the commercial/retail core, and ensure they provide distinctive and attractive places for public life.



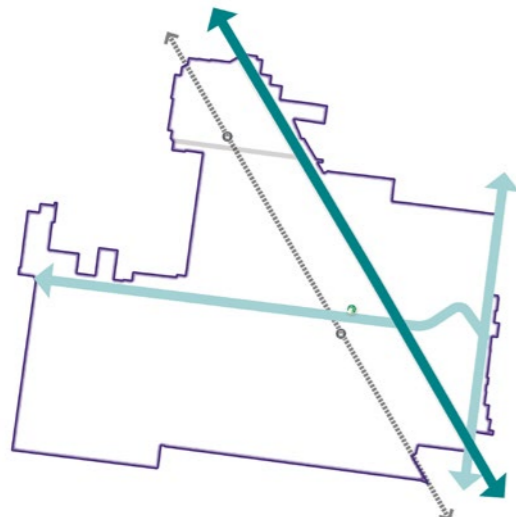
Strategy PR5: Streets

Establish a minimum standard for all streets to ensure they provide a safe and inviting environment which is appropriate for the future needs of the community.

All streets within the Structure Plan Area should provide a minimum level of amenity to respond to the significant increase in population and their role and function. For example, they should have footpaths on both sides of the road, appropriate lighting and canopy tree planting wherever possible.

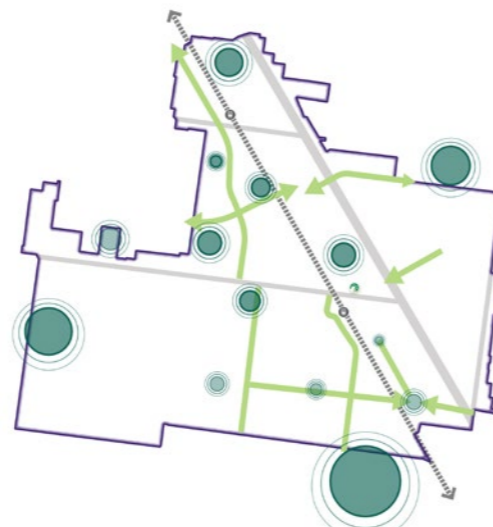
Strategy PR2: Boulevards and Avenues

Optimise main roads for pedestrian movement and amenity while maintaining access by other travel modes, ensuring distinct and attractive setting for public life and development.



Strategy PR4: Green Streets

Provide a network of safe and inviting leafy streets for walking and cycling into the commercial and retail centres and to other key destinations.



Design Direction 2: Promote active transport access

Why is this important?

An inviting environment for walking, wheeling and cycling is critical to a successful urban area.

Key factors for encouraging walking, wheeling and cycling include direct connections to major destinations and key places of employment, general permeability to support everyday movement by foot and bike, and a safe and inviting public realm. The quality of the public realm is addressed by Design Direction 1: Ensure streets are inviting places that support community life.

Missing links to key destinations

The street network should provide legible, safe and convenient links to key destinations, including public transport nodes, activity nodes, employment areas, health and education facilities, key open spaces and community areas. Where areas lack such links, they should be introduced.

Connections to existing open space

In order to improve the liveability of neighbourhoods with poor access to open space, new links to existing open spaces should be created. The Public Realm Framework in Section 4.4 identifies where new links are recommended.

Permeability

Addressing barriers to active transport involves enhancing the permeability of the existing block structure. The appropriate standard of permeability in an activity centre is generally defined by block lengths no greater than 100 metres — for example, City of Melbourne DDO1 and DDO61. In higher-density urban areas outside activity centres, a maximum block length of 180 metres is considered appropriate. This is the mid-point of the range of block lengths promoted by the Urban Design Guidelines for Victoria (120 to 240 metres), approximately mid-way between the 100 metre block length for activity centres identified above and the maximum 240 metres required by Clause 56 of the Victorian Planning Provisions for typical subdivisions, and consistent with the maximum block length recommended by the NSW Movement and Place – Network Planning in Precincts Guide.

Links created by private development

Private development that incorporates new links should be designed to provide direct, attractive and well-lit public connections. They should be safe and free of entrapment areas, and be located at ground level. Passive surveillance should be maximised from both ground floor and upper levels.

Consideration should be given to the function of the link and its implementation to maintain safety and amenity.

Public realm quality

A successful walking, wheeling and cycling network also depends on the quality of the connections. Connections should be safe, attractive and designed for the specific purpose, as outlined in Design Direction 1: Ensure streets are inviting places that support community life.

What is happening now in Cheltenham?

Within the Cheltenham Structure Plan Area, walking, wheeling and cycling access is indirect, inconvenient and unsafe from some areas to key destinations including the existing train stations, Southland Shopping Centre, Sir William Fry Reserve, Highett Road shopping strip and the Bayside Business District to the west.

The scale of Nepean Highway (three to four lanes in each direction) poses a significant barrier to movement in an east-west direction, particularly for pedestrians and cyclists. A distinct lack of street trees, combined with large block sizes further contribute to an unpleasant and inconvenient pedestrian environment.

A number of areas have large block sizes, impacting the permeability and discouraging walking and cycling

Additionally, there is a lack of safe pedestrian crossings, limiting movement across the precinct and making for a car-dominated urban environment.

Alignment with SRL Urban Design Framework:

Design Direction 2 will help to achieve the following SRL Urban Design Objectives (see Section 2.3):

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD1.3 Resilient
- Objective UD1.4 Environmentally sustainable
- Objective UD2.1 Strategic alignment
- Objective UD2.3 Integration with context
- Objective UD3.1 Linkages
- Objective UD3.2 Transport integration
- Objective UD3.3 Legible
- Objective UD3.4 Green network
- Objective UD4.2 Twenty-minute neighbourhoods
- Objective UD4.3 Active transport.

How can this direction be achieved in Cheltenham?

Strategy PR6: Critical and important links

Create new links to improve access to key destinations.

Critical and important links should be designed to provide direct, attractive, well-lit public connections, be safe and free of entrapment areas, reduce barriers to movement, and be located at ground level. Consideration should be given to the function and implementation of the link to support user safety and amenity.



Nepean Highway

“Crossing options are very limited, complicated and take long time” - SRL Public Space and Public Life Study Report (Gehl, 2023)

Strategy PR7: Local links

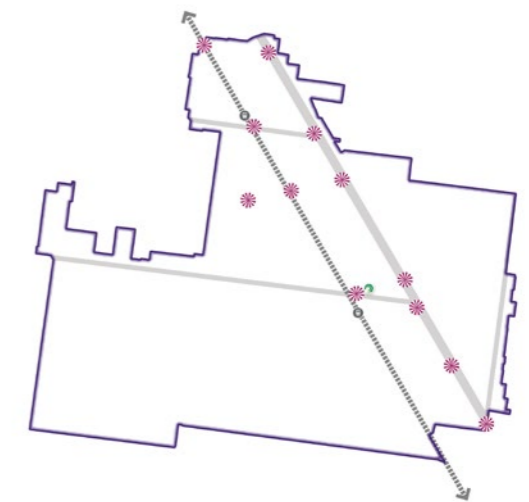
Require the provision of new mid-block links to enhance pedestrian permeability.

Local links should be designed to provide direct, attractive, well-lit public connections, be safe and free of entrapment areas, reduce barriers to movement, and be located at ground level. Consideration should be given to the function and implementation of the link to support user safety and amenity.

Strategy PR8: Pedestrian crossings

Introduce new controlled pedestrian crossings and improve existing crossings where needed to support walking, wheeling and cycling.

Opportunities to enhance pedestrian crossings or provide new crossings should be explored to reduce barriers to movement and create a convenient, safe and accessible active transport network.



Design Direction 3: Foster resilient urban environments

Why is this important?

A healthy ecosystem is a critical component of healthy, liveable and resilient urban environments.

The street and open space system presents an opportunity to improve the environmental performance of the Structure Plan Area by thinking about it as part of the broader eco-system. This includes:

- Increased tree canopy and vegetation cover to reduce the urban heat island effect
- Landscaping to provide habitat and wildlife corridors and/or support urban biodiversity
- Water sensitive urban design treatments to sustainably treat and re-use water and to improve health of trees and vegetation
- Strengthening the metropolitan Melbourne open space network.

As urbanised environments are densified, urban forests play a critical role in mitigating the urban heat island effect, and contribute valuable ecological amenity such as water filtration, shade and habitat value. The SRL East Climate Response Plan has identified a tree canopy cover target of 30 per cent. Street tree planting is valuable in defining a sense of place and identity as well as providing thermal comfort for human and non-human communities. The management and conservation of trees in urban settings creates healthy and resilient ecosystems for a changing climate.

Alignment with SRL Urban Design Framework:

Design Direction 3 will help to achieve the following SRL Urban Design Objectives (see Section 2.3):

- Objective UD1.3 Resilient
- Objective UD1.4 Environmentally sustainable
- Objective UD3.4 Green network
- Objective UD5.2 Responsive
- Objective UD5.4 Healthy
- Objective UD6.2 Landscape values.

Corridors of diverse flora and fauna are essential to biodiversity. Protecting, enhancing and providing habitat in existing and new corridors can foster connection between people, plants and animals, and prevent habitat fragmentation. Biodiversity Sensitive Urban Design principles should be integrated within the network of streetscapes and open spaces to provide for diverse animal species, including shelter (such as dense, protective shrubs), food (such as flowers, fruits, seeds, pollen, nectar), nesting sites (such as tree cavities), and water.

Water Sensitive Urban Design (WSUD) works to mitigate the impact of urbanisation on the surrounding environment and waterways. WSUD strategies treat and reduce stormwater flows, improve cooling, reduce potable water demand, increase soil moisture, and passively irrigate planting in urban environments. Embedding water sensitive design strategies across all public realm scales and typologies is critical to reducing flood risk, stormwater runoff, reducing the urban heat island effect, and improving the health and performance of trees and vegetation.

There is also opportunity in the Structure Plan Area to strengthen the metropolitan Melbourne open space network as critical green infrastructure. These open spaces provide a network of natural systems that support urban ecosystems across a broader area, while mitigating the impacts of urban heat.

Increasing canopy coverage within the private realm is discussed in Design Direction 8.

What is happening now in Cheltenham?

Tree canopy cover is generally limited in the Cheltenham Structure Plan Area. Large areas of low canopy cover are present around Southland Shopping Centre and there is a markedly low presence of canopy within the two large industrial precincts. Major roads such as Nepean Highway and Bay Road also exhibit little vegetation. Level of vegetation varies within the established residential areas from limited and low to medium density tree canopy density which creates a leafy character in some parts of the Structure Plan Area.

There are tall eucalyptuses on the edge of most public facilities, including sports fields and schools.

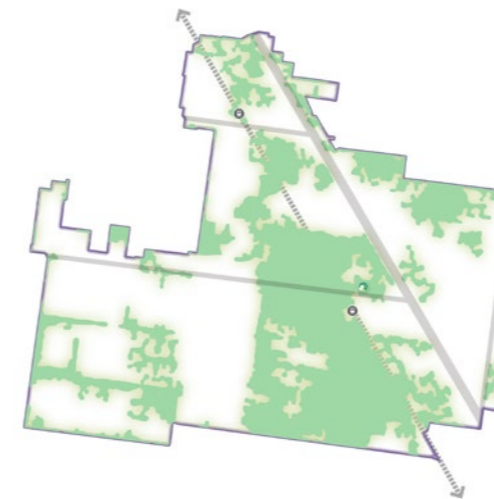
Most local streets feature grassed nature strips with native street trees in mixed sizes and species.

How can this direction be achieved in Cheltenham?

Strategy PR9: Public realm landscaping

Optimising tree canopy cover and other planting in streets and public open spaces that support cooling, greening and urban biodiversity.

The existing leafy streetscape character should be maintained and enhanced, particularly in areas which are a further distance from the SRL station. Streets and public open space should contribute to a broader ecosystem while providing local amenity and urban heat island relief.



Strategy PR10: Water sensitive urban design

Incorporate water sensitive urban design treatments into streets and public open spaces to optimise sustainable water management outcomes.

Streets and public open spaces should contribute to treating and reducing stormwater flows, improving cooling, reducing potable water demand, increasing soil moisture, and passively irrigating urban planting.



Design Direction 4: Facilitate outdoor recreation

Why is this important?

Access to distinctive and high quality open space increases the attractiveness of the Structure Plan Area to live and work.

A collection of diverse open spaces is required to fulfill the full range of human and environmental needs in the Structure Plan Area. This includes provision for recreation, social engagement, connectivity, biodiversity, habitat and integrated water management. In denser urban areas such as this, it is important to optimise the functionality of open spaces. This includes consideration of multi-purpose spaces.

The quality of open space enhances amenity and recreational opportunities. The programming, amenities and facilities provided by open spaces serve different people with the community with higher quality spaces supporting a large proportion of community need. Therefore, existing open spaces should be optimised to ensure they are providing the amenity and recreational needs required for the existing and future population.

When connected into a network, the value of a collection of public open spaces is greater than the sum of its parts, offering increased public realm opportunities and benefits than those provided by the spaces in isolation. A holistic network provides a diversity of experiences, landscape opportunities and outcomes which ensures that the public realm serves as many purposes as possible.

What is happening now in Cheltenham?

Open space within the Cheltenham Structure Plan Area includes Sir William Fry Reserve and Lyle Anderson Reserve and other local pocket parks. The existing rail and road corridors and large impermeable blocks pose significant barriers to open space access resulting in poor access from some residential and employment areas to open spaces.

The SRL Open Space Assessment (2024) identifies that while there are some areas that do not have walkable (400 metres) proximity to public open space overall, there is a moderate to high walkable access to public open spaces within 400 metres within the Structure Plan Area. This is illustrated in Section 3.2: Summary of Public Realm Analysis.

Lyle Anderson Reserve

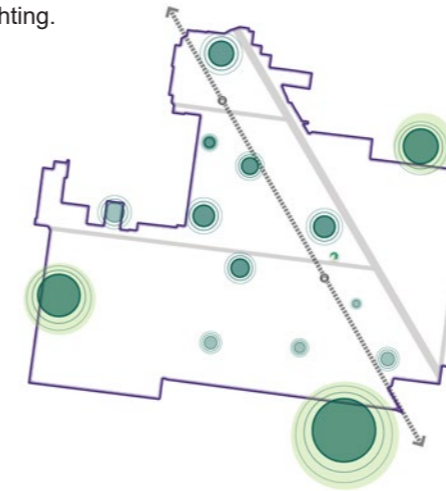
“There is a considerably low diversity of activities compared to the other public spaces” - SRL Public Space and Public Life Study Report (Gehl, 2023)

How can this direction be achieved in Cheltenham?

Strategy PR11: Enhance existing open spaces

Enhance the functionality, character and safety of existing public open spaces.

Open spaces should service and cater for the diverse needs of the existing and future community. These open spaces should have improved safety through passive surveillance, activation and lighting.



Strategy PR12: Connections to open space

Create new connections that improve accessibility to open space and create a network of spaces.

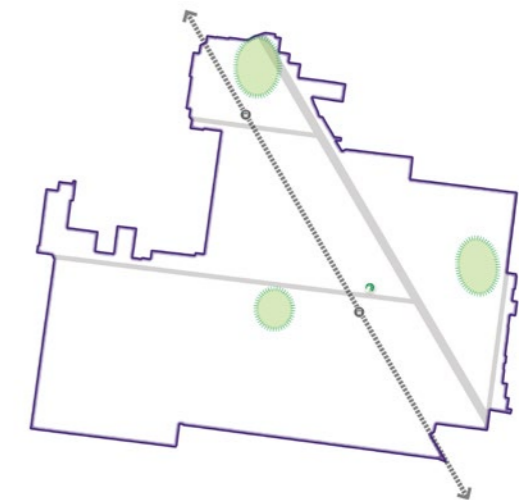
Opportunities for new connections through redevelopment of abutting properties should be explored.



Strategy PR13: New open spaces

Introduce new open spaces where required.

New open spaces should provide suitable opportunities for the community and address identified gap areas.



Alignment with SRL Urban Design Framework:

Design Direction 4 will help to achieve the following SRL Urban Design Objectives (see Section 2.3):

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD1.4 Environmentally sustainable
- Objective UD2.1 Strategic alignment
- Objective UD2.2 Functional urban structure
- Objective UD2.4 Welcoming
- Objective UD3.4 Green network
- Objective UD4.1 Universally inclusive
- Objective UD4.2 Twenty-minute neighbourhoods
- Objective UD4.4 Safer design
- Objective UD5.2 Responsive
- Objective UD5.4 Healthy
- Objective UD5.5 Quality design
- Objective UD6.1 Amenity
- Objective UD6.2 Landscape values
- Objective UD6.4 Places for people
- Objective UD6.5 Activation.

3.4 Public Realm Framework

The Public Realm Framework has been developed by applying the relevant public realm design directions presented in Section 3.3. The key features of the framework are outlined below.

Public realm outcomes

Figure 3.07 outlines the broad strategic intent behind the public realm strategies proposed in this report. These are further detailed in the Public Realm Framework, Figure 3.08.

The actions needed to realise these strategies are detailed within Section 6.

Some of the key moves to enhance and integrate the public realm in the Cheltenham Structure Plan Area are outlined below.

- The dense Mixed-use core will be supported by attractive and accessible public realm to transform into a vibrant hub of activity
- Sir William Fry Reserve's landscape and recreation value will take on a new role servicing more residents and visitors within the heart of the Structure Plan Area
- The communities across the railway/road corridor will be integrated via improved pedestrian crossings of Nepean Highway and a new grade-separated pedestrian crossing across Frankston rail line
- Legible and safe connections will link to the former Highett Gasworks site and more broadly to the destinations of the Highett Activity Centre to the north and the Cheltenham-Southland Major Activity Centre to the south
- Bay Road transformed to more accessible, higher amenity pedestrians and to support new retail and commercial opportunities attracting new developments
- Permeability will be improved in Structure Plan Area particularly in the areas to the south-west of Bay Road
- Improved streetscapes and new open space, will improve greening, connectivity and recreational opportunities throughout Structure Plan Area.

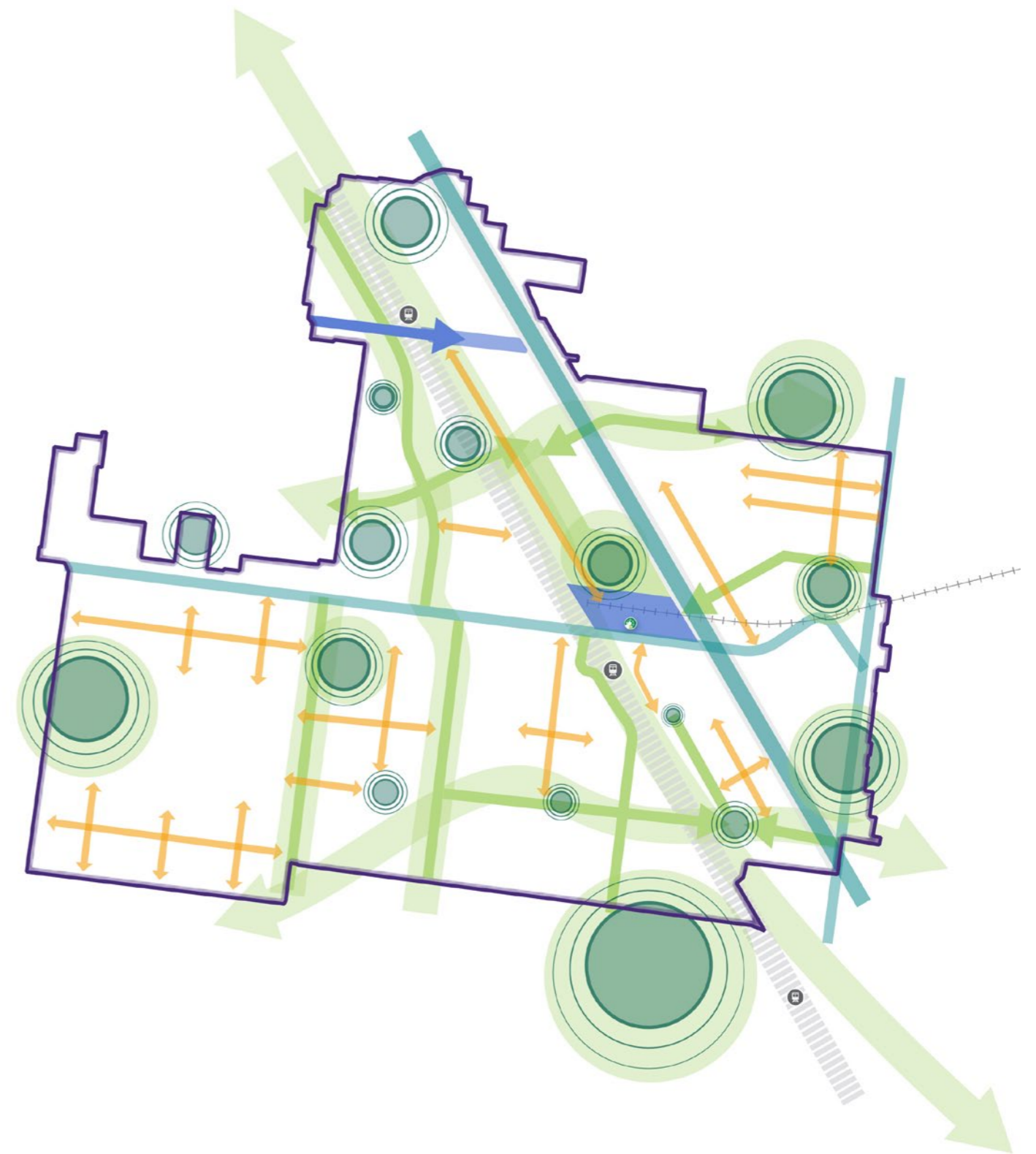


Figure 3.07: Public realm outcomes

Street Typologies

The following indicative sections illustrate the street typologies envisaged in the Public Realm Framework. Precedent case studies for each typology is provided in the SRL East Structure Plan - Urban Design Supporting Research - Attachment A.







Sections are typical and indicative only to communicate intended outcomes and to establish a hierarchy of streets. The final arrangement and design of the streets and associated infrastructure (including car parking, paths, landscaping etc) would be subject to further resolution that would consider the local context, site constraints, and other technical and relevant authority requirements.

Boulevard

Wide, generous primary road and public transport corridor that serves multiple uses and provides strong landscape and pedestrian outcomes including canopy trees and pedestrian crossing opportunities.

Indicative Section, Boulevard



-  Canopy tree planting and expanded understorey planting.
-  Pedestrian pathways, refuge and crossing points.
-  Potential threshold zones that promote pedestrian crossing / land use relationships.
-  Multi-modal transport opportunities.
-  Opportunities for public art.
-  High quality furniture zones at regular intervals for pedestrians to pause and rest

Avenue

Wide and tree-lined 'connector' street that accommodates active and/or public transport with nodes of pedestrian amenity to create places for people to move and dwell.

Indicative Section, Avenue



Activity Street

Highly urbanised street that supports public life and provides an attractive and comfortable pedestrian experience, with generous pedestrian circulation space, streetscape treatments that encourage activation of street frontages and provide durable, high quality materials.

Indicative Section, Activity Street - Type A











-  Public transport connectivity (bus stops / waiting zones)
-  High amenity Public Transport waiting facilities for users
-  Potential active transport link
-  Streetscape and landscape outcomes
-  Generous pedestrian zones
-  Wayfinding, regular seating points and leafy shade

Green Street

A broad classification for a collective network of local streets that should be prioritised for improvement due to their significance for sustainable travel and their ability to support pedestrian experience to key destinations (such as recreational facilities, public transport stops and stations and key employment areas), environmental outcomes, and bike and public transport routes.

Indicative Section, Green Street Section- Type C - Cycling



-  Street trees and biodiverse under-storey planting WSUD initiatives
-  Active transport (walking and cycling) paths and connections
-  Activity nodes and pause points with seating
-  Street lighting to one side to light the full street
-  Separation between transport modes
-  Micro mobility infrastructure storage (such as bicycle hoops)
-  Bus Stop shelters and seating
-  Indented parking for pick-up and drop off

Key links

New or improved links that provide connections to key destinations, or through large urban blocks or impermeable corridors (such as railway lines or arterial roads). These links typically have limited or no vehicular access, may include provision for cycling and seek to prioritise pedestrian circulation.

Critical links: connections that provide direct pedestrian access to the SRL station at Cheltenham.

Important links: connections that reduce gaps in walking access to key destinations such as areas of employment or major open spaces and may support a biodiversity corridor.

Local links: connections that generally improve permeability and local walking access, particularly where there are long blocks or barriers preventing through movement.





Key links in the Public Realm Framework plan can be either 'fixed' or 'flexible'. Fixed key links are where the location of the link has been established and it is unlikely to change. Whereas for flexible key links the exact location is still to be determined and may adjust to respond to an opportunity or circumstance, provided the link delivers on the intended outcome – whether this is to connect to a key destination (critical or important link) or to improve general permeability and walkability (local link).

Indicative Section Pedestrian link- Type A - Urban Amenity



Indicative Section Pedestrian link Type C - Shared Path



























-  CPTED, clear sight lines, lighting and wayfinding.
-  Generous pedestrian and shared-use paths.
-  Support Activation through outdoor dining and urban furniture.
-  WSUD and biodiverse vegetation.

Public Realm Framework

This plan illustrates the key elements of the public realm strategy.

Figure 3.08 shows the recommended new and improve pedestrian links and crossings in the Structure Plan Area, along with proposed new open spaces.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  SRL East alignment
-  Boulevard
-  Avenue
-  Activity Street
-  Green Street
-  Work with land manager / owner to improve links and access through site
-  Important key link (improved widened)- fixed/flexible
-  Critical key link (new) - fixed
-  Critical key link (new) - flexible
-  Important key link (new) - fixed
-  Important key link (new) - flexible
-  Local key link (new) - flexible
-  Existing open space
-  Open space (new) - SRL Rail and Infrastructure Project
-  Open space (new) - planned/proposed
-  Open space (new) - investigation area
-  Pedestrian crossings (new or upgraded)
-  Pedestrian crossings (new or upgraded) - SRL Rail and Infrastructure Project
- Transport Legend***
-  Upgraded strategic corridor
-  Active transport - C1, C2, C3
-  Major active transport link

*Refer to the Structure Plan Transport Plan for more detail

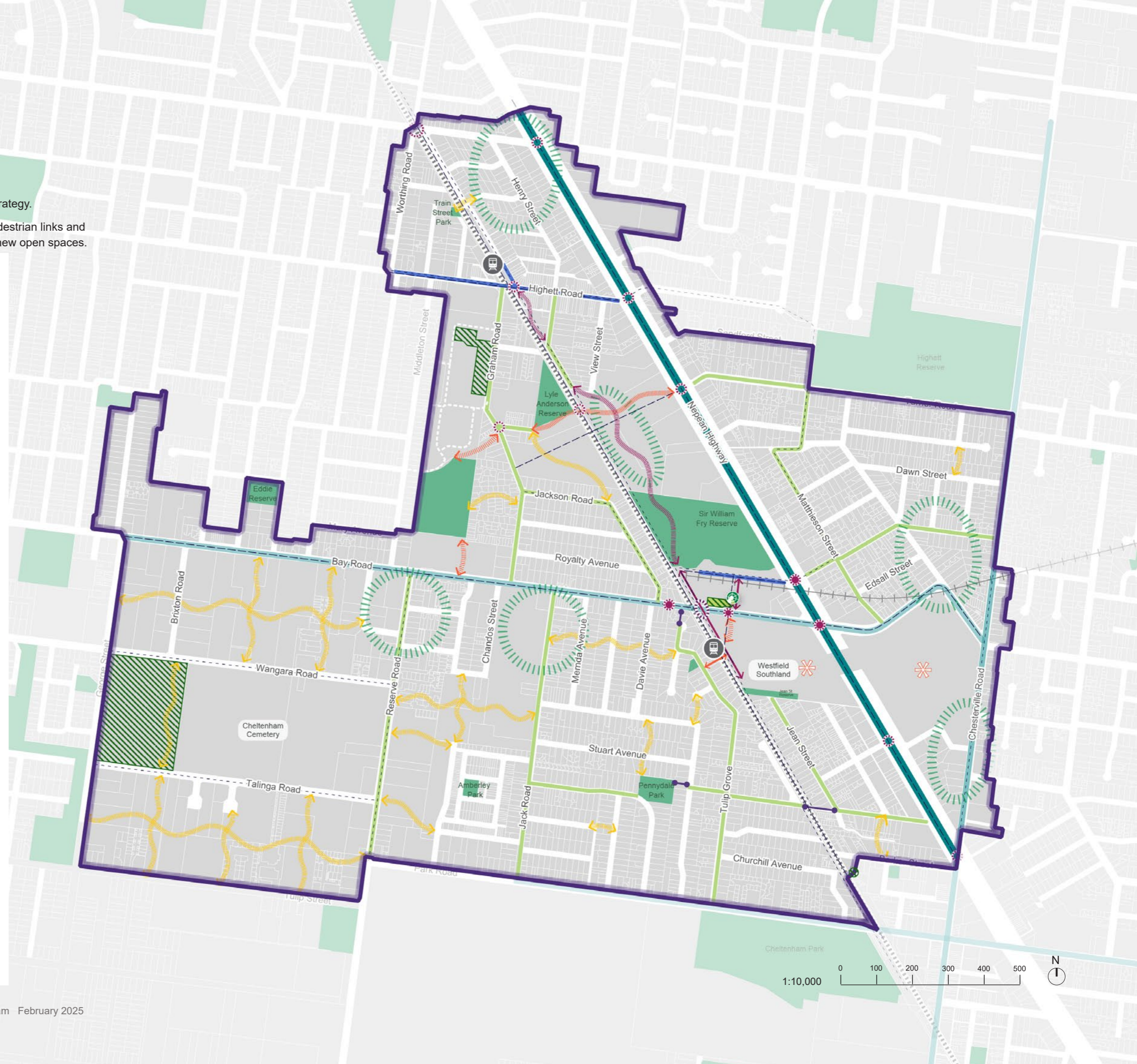


Figure 3.08: Public Realm Framework



4 Urban form

4.1 Introduction

4.2 Summary of analysis

4.3 Urban form design directions

4.4 Urban Form Framework

4.5 Urban form areas

4.1 Introduction

This section outlines an Urban Form Framework to achieve the Cheltenham Vision. It summarises the analysis that underpins the framework, and sets out design directions and strategies.

The design directions, strategies and Urban Form Framework was informed by the SRL Urban Design Framework and the Cheltenham Vision. This was supplemented by an analysis of the existing development conditions (see Appendix A) and extensive research into best practice urban development typologies provided in the SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

The Urban Form Framework was developed concurrently with the Public Realm Framework, and Built Form Framework and each informs the other.

The methodology for developing the Urban Form Framework is summarised in Figure 4.1.

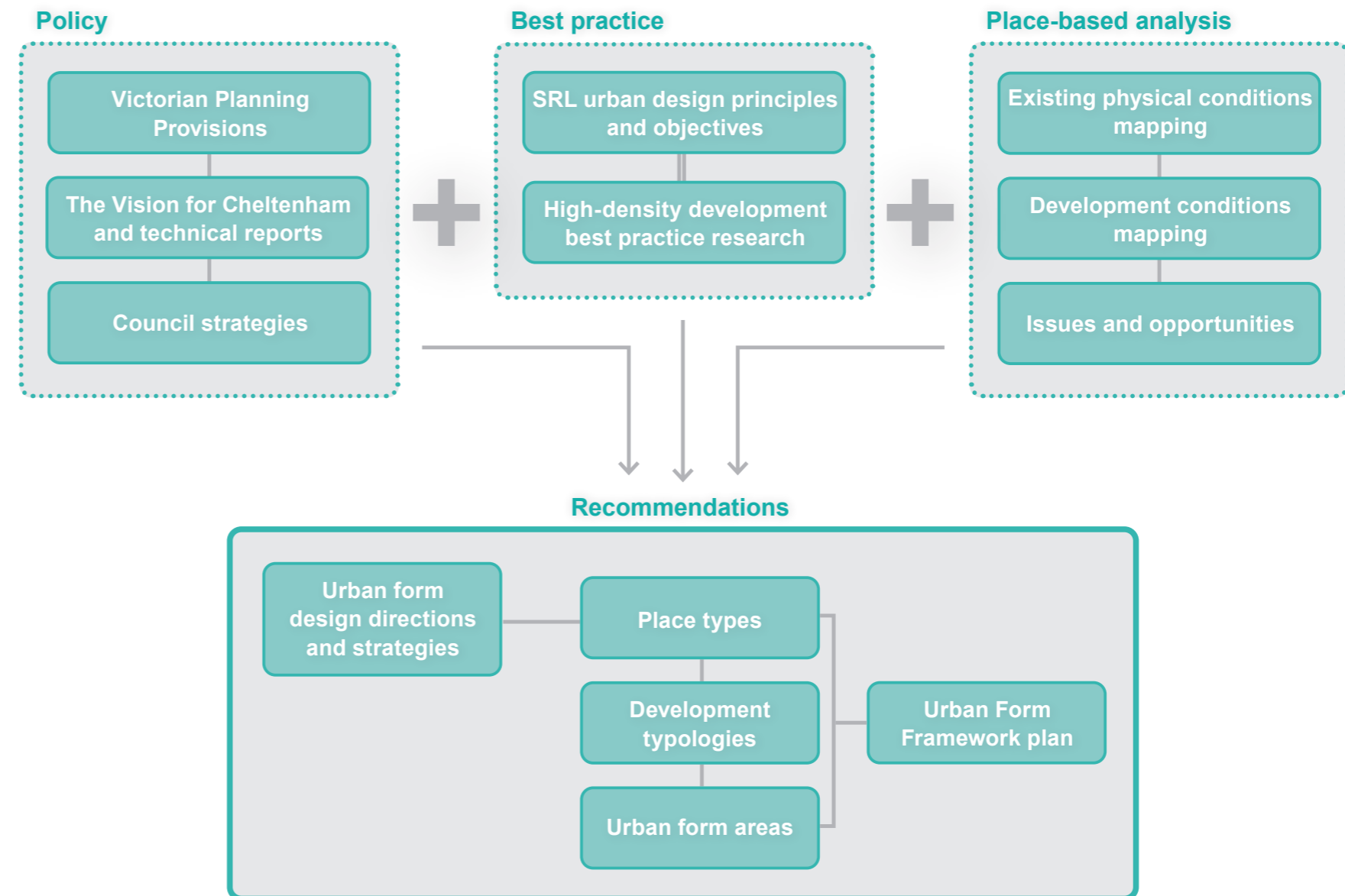


Figure 4.1: Methodology for developing the Urban Form Framework


4.2 Summary of analysis


Opportunities


Figure 4.02 shows the key opportunities the urban form analysis identified in the Cheltenham Structure Plan Area.

These key issues and opportunities include:


- 1 Existing Southland commercial/retail core near the SRL station at Cheltenham
- 2 Existing Highett Activity Centre situated along Highett Road
- 3 Former Highett Gasworks site - Opportunity Site
- 4 Bayside Business District

 Opportunity to retain the moderate tree canopy density and landscape character within private properties via appropriate built form controls.


 Open space


 Residential areas close to amenities/services and Public Transport suitable to mid-rise building typologies.

Wide roads, which can accommodate mid-high density development and enhanced pedestrian infrastructure





 Road width greater than 40 metres

 Road width 30 to 40 metres

 Road width 20 to 30 metres

 Heritage buildings which strengthen the place identity.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  Frankston rail line

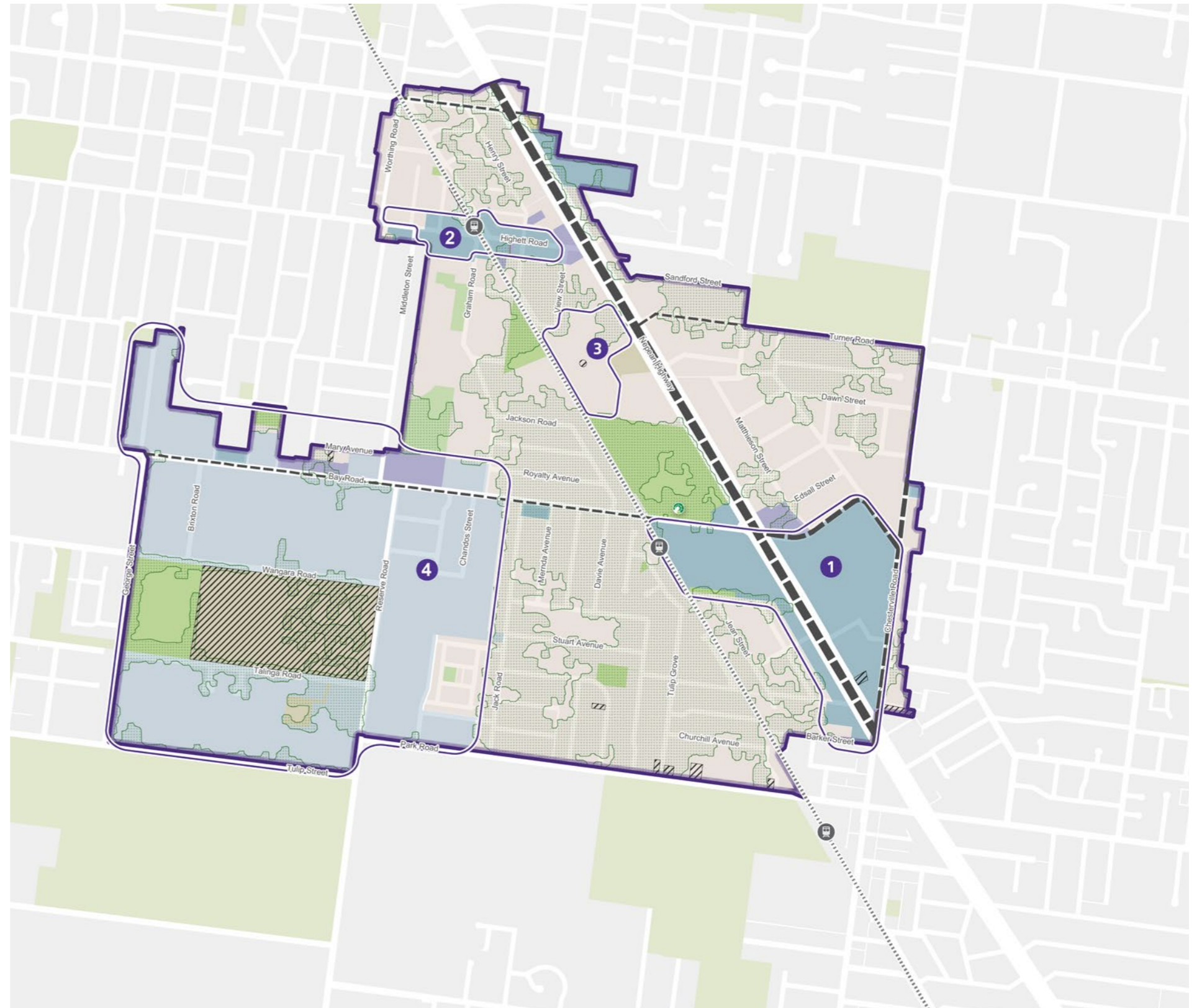


Figure 4.2: Opportunities for urban form

Constraints

Constraints to change in urban form may relate to the lot pattern, lot ownership, existing development height or age, or character overlays associated with a specific property or group of properties within the Structure Plan Area. Combined, these constraints play a significant role in shaping the feasibility, nature of development and built form character that can be achieved within the Structure Plan Area.

Constraints to change in urban form character have been categorised in order of significance (low to high) within the following groups:

- Lot size and ownership
- Character overlays
- Building heights
- Recently developed buildings.

Residential strata titled properties are common south of Southland Shopping Centre, west of the existing Highett Station and east of Nepean Highway. Elsewhere in the Cheltenham Structure Plan Area, residential neighbourhoods are less impacted by strata titling and subdivisions. Small lots resulting from land subdivision are found infrequently in all residential areas. There are concentrations of small lots along Highett Road and the Monterey Drive development.

A considerate built form response will be required to frame key views to Sir William Fry Reserve and the Gasworks heritage chimney. However, this is expected to shape rather than constrain development. Some recent medium to high-density developments occur within proximity of the three railway stations. These are unlikely to be redeveloped in the short to medium-term.

Note: A range of constraints were identified across the Structure Plan Area. The more significant development constraints have been included on this page. Where a property is affected by multiple constraints, only the greater constraint is shown here. Further detail on the development constraints assessment can be found in Appendix A.

Legend

	SRL station		2 to 3 residential strata titles
	Existing train station		4 to 5 residential strata titles
	Structure Plan Area		More than 6 residential strata titles
	SRL East alignment		Recent developments / unbuilt approvals > 12 storey
	Heritage Overlay		Recent developments / unbuilt approvals < 12 storey
	Victorian Heritage Register		Recent developments / unbuilt approvals < 8 storey
	Large Landholders		Recent developments / unbuilt approvals < 4 storey
	Small Lots (0 t400square metres)		Existing buildings > 13 metres height
	Areas subject to flooding		
	Significant Views		

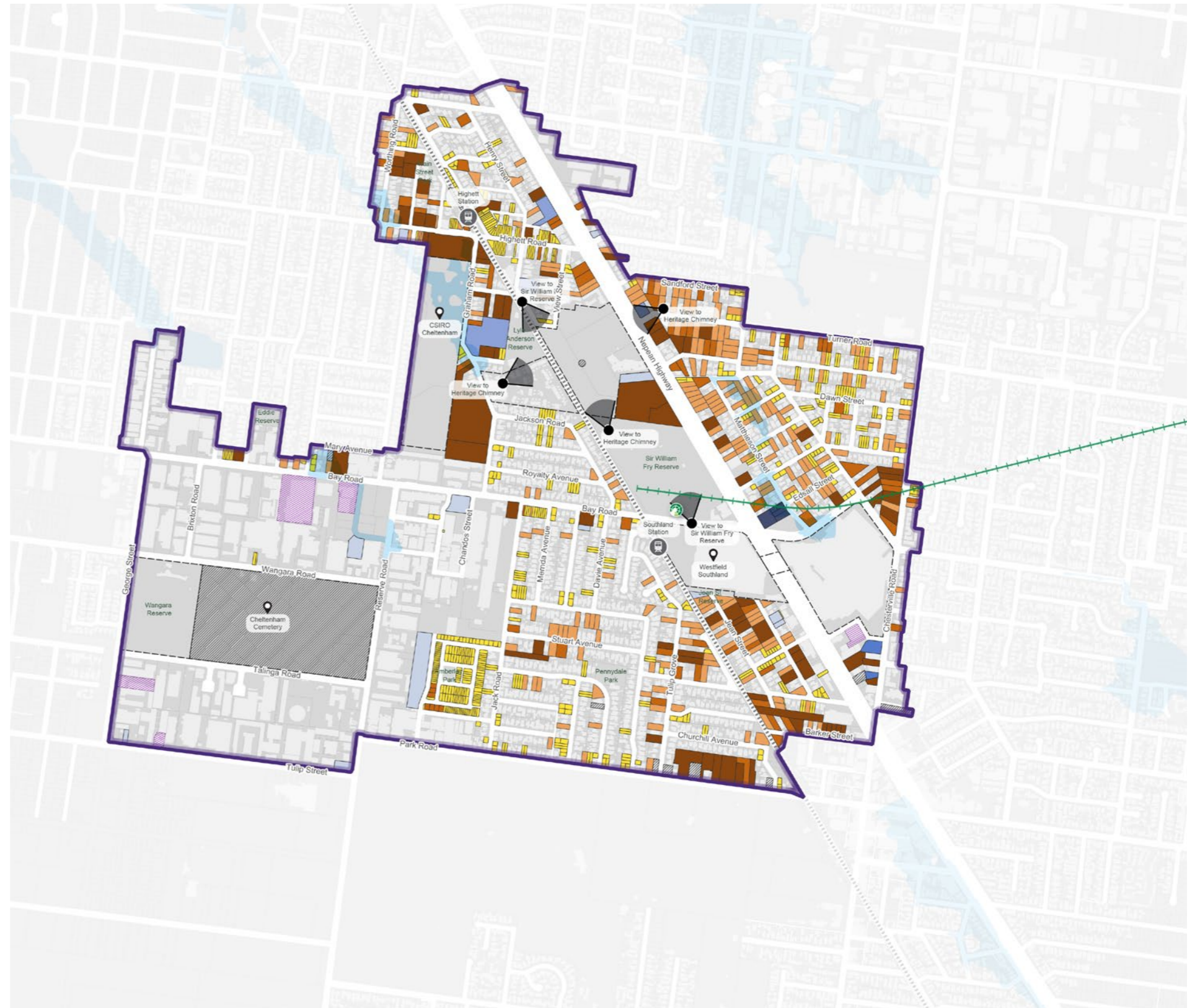
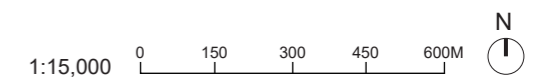


Figure 4.3: Constraints to Change in Urban Form Character



4.3 Urban form design directions

This section outlines the urban form design directions to achieve the Cheltenham Vision.

The design directions informed the development of the Urban Form Framework in Section 4.4 and the built form outcomes identified in Section 6.

The order of the design directions does not imply an order of priority.

Design Direction 5: Provide for growth in a form that delivers high amenity environments

Why is this important?

Substantial change

SRL will significantly amplify accessibility to employment, services, education and community facilities across Melbourne. Therefore, a substantial increase in residential development is warranted to enable more people to have good access to jobs and services. A significant increase in employment, health and/or education facilities close to the SRL station is also merited to improve accessibility to jobs and services for people elsewhere on Melbourne's rail network, further reinforcing the justification for increased residential density within the Structure Plan Area.

Denser areas with a mix of uses have an improved environmental performance, because they reduce travel distances and encourage sustainable modes of travel. They also increase support for local businesses, and make better use of existing infrastructure.

Increased residential density helps to create 20-minute neighbourhoods with local services within walking distance, supporting liveability and better health (as sought by Plan Melbourne 2017-2050). Denser areas offer a more vibrant environment and a more diverse range of opportunities for cultural and recreational experiences.

A significant increase in residential, employment and commercial uses within the Structure Plan Area is supported by Clause 11.01-1R of the Kingston City Council and Bayside City Council Planning Schemes, which states that 'the Suburban Rail Loop will facilitate substantial growth and change in major employment, health and education precincts and activity centres beyond the central city at an appropriate scale to address the needs of Melbourne's rapidly growing population'.

The level of growth envisaged in the Structure Plan Area represents a transformative change in character. A significant uplift in development potential is also necessary to stimulate redevelopment.

Therefore, in general, existing character should not act as a constraint on the level of growth proposed. However, the built form design directions outlined in Section 5 seek to manage the transition over time between the existing and proposed future characters.

Development capacity

Demand for additional dwellings and jobs within the Structure Plan Area has been forecast to 2041. Consistent with orderly planning, the Structure Plan should provide for at least this level of growth, subject to acceptable amenity outcomes.

More specifically, the development capacity provided for by the Structure Plan should not be limited to the need to accommodate these forecasts for the following reasons:

- Demand is likely to continue to grow after 2041. If the Structure Plan sets built form parameters which limit growth to that needed to accommodate the forecast growth to 2041, it may not be possible to accommodate further demand given the likely predominance of strata-titled buildings that are difficult to redevelop
- Demand forecasting is an imperfect science - past experience indicates that the actual demand may be greater than forecast
- There is uncertainty about the rate of redevelopment and number of properties that will occur between now and 2024. If the Structure Plan relies on all properties being redeveloped to provide for the forecast demand but this does not occur, the demand will not be able to be accommodated
- It is State planning policy to encourage intensification close to public transport, jobs and other services to promote public transport and active transport over car dependency for a range of environmental, economic and social reasons.

Building scale

Given the Structure Plan Area's very high level of accessibility to education, jobs and public transport, and the benefits of urban density, it should generally have a level of intensification greater than that intended for the surrounding residential hinterland or close to most other passenger stations or activity centres within Melbourne (other than Central Melbourne and the other SRL Structure Plan Areas), which are less well served by jobs and public transport.

Residential zones generally support building heights of 2 to 4 storeys, and phase 2 of the *Future Homes* initiative is planned to support heights of 5 storeys in the General Residential Zone within 800 metres of a passenger station or any activity centre. Therefore, in general, building heights within the Structure Plan Area should be at least 6 storeys to capitalise on the planned accessibility to jobs and public transport. Exceptions to this may include areas with heritage values, an identified special

character, areas relatively distant or disconnected from the SRL station, or where development is relatively constrained.

Building form

As noted above, greater density has a range of benefits. However, if designed poorly, it can adversely affect the public and private amenity of an area, and therefore its attractiveness as a place to live, work and play. Tall buildings cause longer shadows and tend to have greater wind effects. Bulky buildings reduce access to daylight and sky views. These effects are increased in relatively narrow streets.

Therefore, higher-density development needs to be shaped to ensure a high standard of amenity.

What is happening now in Cheltenham?

Detached dwellings of 1 to 2 storeys dominate the residential character of the Cheltenham Structure Plan Area. Residential subdivision and multi-unit mid-rise infill buildings are increasing in prevalence.

Southland Shopping Centre is a large footprint retail building which is expressed horizontally, with buildings rarely exceeding 20 metres.

Due to proximity to Moorabbin Airport, the Civil Aviation Building Control Regulations limits building heights within much of the south and east of the precinct to 45 metres, and up to 60 metres around the SRL station at Cheltenham.

Most streets within the Structure Plan Area are 15 to 20 metres wide (road reserve width), and typical lot sizes are 15 to 20 metres wide and 30 to 45 metres deep.

Alignment with SRL Urban Design Framework:

Design Direction 5 will help to achieve the following SRL Urban Design Objectives (see Section 2.3):

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD1.3 Resilient
- Objective UD1.4 Environmentally sustainable
- Objective UD5.2 Responsive
- Objective UD5.3 Sensitive
- Objective UD5.5 Quality design.

How can this direction be achieved in Cheltenham?

Strategy UF1: Substantial change

Provide for higher-density development throughout the Structure Plan Area, except in isolated, sensitive or constrained areas.

Higher-density development within the Structure Plan Area will deliver growth in this extremely well-serviced location, and the environmental, economic, liveability and health benefits of urban density.

In order to reflect the greater accessibility of this location to jobs and services, building heights should be generally greater than 5 storeys. However, a lower height may be appropriate in isolated, sensitive or constrained areas as follows:

1. Isolated areas are those more than approximately 10 minutes by foot or local public transport from a train station or major employment, health or education campus, which are considered to have lesser accessibility to public transport or jobs, and therefore less suitability for intensification. Exceptions to this include properties:
 - Fronting a large open space, whose amenity benefits should be capitalised upon
 - Large enough to form a distinct character pocket.
2. Sensitive areas are pockets of land with particular sensitivities that limit the appropriateness of greater height, including:
 - On the north side of a narrow open space
 - Affected by a Heritage Overlay and in the outer parts of the Structure Plan Area
 - Affected by a Neighbourhood Character Overlay
 - Adjacent to properties zoned GRZ or NRZ outside the Structure Plan Area.
3. Constrained areas are those where comprehensive redevelopment is relatively unlikely due to a high proportion of:
 - Properties with more than 3 strata-titled lots
 - Small or narrow lots.

Strategy UF2: Mid-rise development

Promote mid-rise development throughout the Structure Plan Area, except immediately around the SRL station where high-rise buildings are preferred.

Most streets within the Structure Plan Area are 15 to 20 metres wide (road reserve width), and typical lot sizes are 15 to 20 metres wide and 30 to 45 metres deep. Mid-rise buildings (those between 5 and 12 storeys) are the most appropriate way to provide for substantial growth in these circumstances because they can deliver higher densities while maintaining good public realm and internal amenity.

In particular, the typical street widths and lot sizes can accommodate mid-rise buildings without unreasonable shadow, visual and wind impacts¹. Mid-rise buildings can also be sited and shaped in a way that manages their impact on the existing character of low-rise areas^{2,3}.

Mid-rise buildings have a range of other attributes that would complement the opportunities provided by higher-rise and lower-rise buildings. These include:

- Research indicates that mid-rise residential buildings have positive outcomes in terms of social connectedness and well-being^{4,5}
- Mid-rise buildings are said to be suitable for families, because parents are able to supervise children's outdoor play⁶
- Mid-rise development is less expensive to build than taller buildings per square metre of sellable or leaseable area, likely because of the lesser requirements for structure and services⁷
- Mid-rise residential development is more likely to be owner-occupier standard than speculative investor-grade housing
- Mid-rise apartments offer a distinctly different housing choice, compared with high-rise buildings and townhouses^{8,9}
- Fewer properties need to be amalgamated to create a mid-rise development site than a high-rise development site
- The same number of dwellings is spread across more mid-rise than high-rise buildings, increasing competition between developers and choice for purchasers and renters
- There is a greater number of developers and builders who can create mid-rise than high-rise buildings, increasing the capacity of the industry to deliver the desired number of dwellings and increasing competition between them.

Adopting a mid-rise development pattern across the Structure Plan Area would result in the same amount of growth being spread over a larger area. Given that the factors listed above are strongest for residential buildings, and commercial buildings have a stronger need to be close to the SRL station and activity centre, the mid-rise preference is not recommended to be applied in the vicinity of the SRL station.

Mid-rise buildings range from 5 to 12 storeys. Therefore, a general preference for this form of development does not preclude the potential for distinct characters within the Structure Plan Area.



Mid-rise precedents

1. Ewing, R., & Cervero, R. (2010). *Travel and the Built Environment: A Meta-Analysis*. *Journal of the American Planning Association*, 76(3), 265-294
2. *SRL Housing Recommendations Report*
3. *Congress for the New Urbanism*. (2001). *Charter of the New Urbanism*. McGraw-Hill
4. Gehl, J. (2010). *Cities for People*. Island Press.
5. Gifford, R. (2007). *The Consequences of Living in High-Rise Buildings*. *Architectural Science Review*, 50(1), 2-17
6. Heenan, Dr R. (2017). *Healthy Higher Density Living for Kids*. NSW Government & City of Parramatta
7. *Urban Land Institute*. (2013). *The Economics of Mid-Rise versus High-Rise Construction*.
8. *SRL Housing Needs Assessment*
9. Glaeser, E. L. (2011). *Triumph of the City: How Our Greatest Invention Makes Us Richer, Smarter, Greener, Healthier, and Happier*. Penguin Press

Design Direction 6: Establish diverse, liveable and productive neighbourhoods

Why is this important?

Clusters of buildings with similar scale and massing contribute to distinct place identities. The variation between these identities enhances the experience and legibility of the broader urban area. Varied building types also contributes to a diverse range of housing and business accommodation types, creating a more mixed and balanced community.

As noted in Strategy UF2: Mid-rise development, mid-rise buildings generally range from 5 to 12 storeys and are no greater than 15 storeys. Therefore, a general preference for this form of development need not result in uniform character outside the area around the SRL station. Distinct characters can be created by adopting a more specific height range within the mid-range scale, along with particular building siting and setback parameters (and land use mixes).

These built form choices should be based on the particular characteristics of the area and factors such as:

- Accessibility to public transport, jobs and services
- Housing choice, affordability and diversity
- Desired land use, including an aspiration to connect distinct activity nodes
- Accessibility to parkland
- Valued existing character including urban structure and topography.

In summary, specific built form attributes should be promoted in different parts of the Structure Plan Area, to create places with distinct identities, contribute to legibility, facilitate housing and business accommodation diversity across the whole area, and to support the land use and transport aspirations for those urban form areas.

Main streets

Although the aspiration to accommodate growth generally outweighs that to maintain the existing character, activity centres featuring fine-grain main streets are an exception. This is because their narrow lots present a particular challenge for viable floorplates, disincentivising redevelopment compared with other locations. Their fine-grain subdivision pattern also creates a distinctive character of small tenancies that support local, independent retailers. This character contributes to a more engaging public realm and is generally highly valued by local communities.

Existing small retail strips have a different character and present an opportunity to be comprehensively redeveloped due to their relatively small size. Therefore, these areas are proposed to have bespoke outcomes that complement their surrounding retail character.

The challenges of redeveloping narrow lots mean that it is likely that many such lots in a strip will remain undeveloped for the foreseeable future. Therefore, the form of development that is promoted in such areas should complement the existing fine-grain, low-rise character.

Public transport oriented development

Denser development supports greater use of public transport that is within easy reach. However it can also change the character of an area and the amenity its public realm and private spaces.

In each part of the Structure Plan Area, there is a need to strike a balance between providing for growth and moderating change to amenity and character. This balance should be weighted towards growth in the central core and SRL station environs, where access to jobs and services is greatest, and the need for sensitivity to existing character within and immediately outside the Structure Plan Area is least.

In contrast, it should be weighted towards maintaining the existing amenity and complementing the existing character towards the edges of the Structure Plan Area (without ignoring the need for growth). The areas between the core and edge should have a more balanced weighting.

This pattern creates the classic cone form of increasing building scale towards the centre of the Structure Plan Area, which contributes to the legibility of the broader area. The gradient of this cone should respond to the scale of public transport, jobs and services in the core, such as reaching taller buildings in centres with more than one rail line and/or a particularly significant number of jobs, such as Box Hill / Monash / Clayton and lower buildings in centres with only one rail line and/or a lesser number of jobs, such as Burwood.

Main roads generally carry public transport and are wider than local streets. Public transport provides a high level of accessibility to jobs and services. Greater width enables taller buildings to be accommodated without overwhelming the street. Therefore, denser buildings should be provided for along main

roads. A mix of commercial and residential uses is appropriate to capitalise on the higher level of accessibility, along with adaptable buildings able to respond to changes in market demand for different uses. Denser, mixed-use buildings will contribute to a distinct 'boulevard' character.

Land use facilitation

Different forms of development facilitate different land use outcomes. For example:

- Taller buildings contribute to more vibrant environments, suited to commercial uses, and lower buildings support quieter places with higher environmental amenity, suited to residential uses
- Larger floorplates support commercial uses and narrower floorplates support residential uses
- Some industrial uses require large to very large floorplates with generous loading areas
- Buildings that are built close to the street frontage support commercial uses (notably those forming a continuous street wall for retail uses) and those that are set back from the street and freestanding provide more privacy and amenity for residential uses.

Demand for different uses varies over time, and is not possible to predict with any accuracy. Designing adaptable buildings that can accommodate a land use change over time is one possible solution. Adaptable buildings facilitate changes in use without the need for redevelopment, which is environmentally and financially costly. Adaptability is supported by a modest street setback, ground floor facades oriented towards the street, generous floor-to-floor dimensions to support commercial uses, and relatively shallow floorplates to provide good internal residential amenity.

Areas immediately adjacent to the commercial / retail core with an existing medium-density character are most suited to accommodate mixed-use and adaptable buildings, because they are contiguous with existing commercial activity and because the change in built form character is less abrupt than it would be in lower-density areas.

Diversity of housing

As discussed in Design Direction 5, residential typologies need to provide a diversity of housing options, allowing for future residents to have access to suitable 'right sized' and affordable accommodation. Accommodating for these diverse housing options will result in different areas requiring a different place identity.

Employment neighbourhoods

Areas with a high concentration of employment uses require careful consideration of the ambitions and expectations of these industries to ensure the built form and public realm support them. To attract and foster technology-led life science, health and education sectors, these neighbourhoods need to be sustainable, connected and desirable places. These areas need to support the needs of all-hour workers by ensuring a safe and attractive public realm at night and day. The public realm and built form should also foster incidental social connections and transfer of knowledge between workers.

Alignment with SRL Urban Design Framework:

Design Direction 6 will help to achieve the following SRL Urban Design Objectives (see Section 2.3):

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD1.4 Environmentally sustainable
- Objective UD2.1 Strategic alignment
- Objective UD2.2 Functional urban structure
- Objective UD2.3 Integration with context
- Objective UD2.4 Welcoming
- Objective UD3.1 Linkages
- Objective UD3.2 Transport integration
- Objective UD3.3 Legible
- Objective UD3.4 Green network
- Objective UD4.2 Twenty-minute neighbourhoods
- Objective UD5.2 Responsive
- Objective UD6.1 Amenity
- Objective UD6.3 User experience
- Objective UD6.5 Activation.

What is happening now in Cheltenham?

Southland Shopping Centre is located on Nepean Highway and is a regionally-significant retail centre with a large footprint. Commercial uses extend from Southland Shopping Centre, along Nepean Highway, down to the Cheltenham Activity Centre. These are predominantly large-format highway oriented retail buildings.

Hihett Road consists of a predominantly fine-grain strip shopping, a supermarket development, dining, offices, and the emergence of some medium density residential uses. This area has a distinctly different retail character and offering than Southland Shopping Centre.

The Bayside Business District is an extensive industrial area in the west of the Structure Plan Area. Building footprints range in size. Along Bay Road, there are a range of commercial offerings such as supermarkets, plant nurseries, furniture stores and a fitness centre. The rest of the area has a range of uses, including auto-repair shops, warehousing, breweries, building supplies and education services, among others.

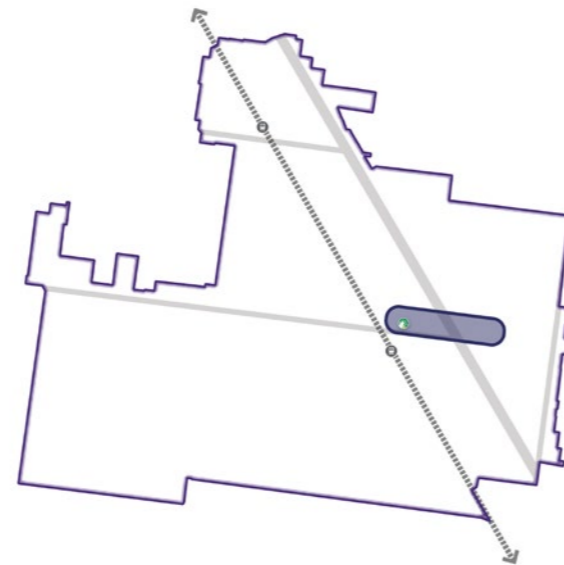
The remainder of the Structure Plan Area is predominantly low-rise detached dwellings in a garden setting.

How can this direction be achieved in Cheltenham?

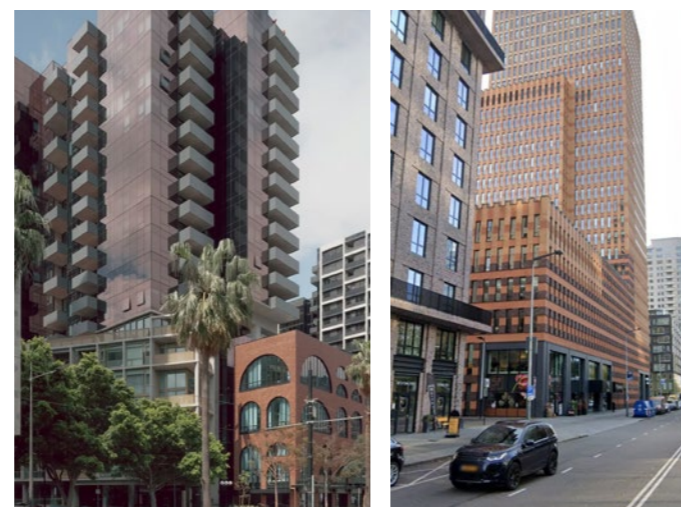
Strategy UF3: Vibrant core

Promote higher-density Mixed-use development in the Structure Plan Area core.

Taller built form should be facilitated within the commercial / retail core to complement the existing and desired built form intensity of the area, while supporting a range of land use types.



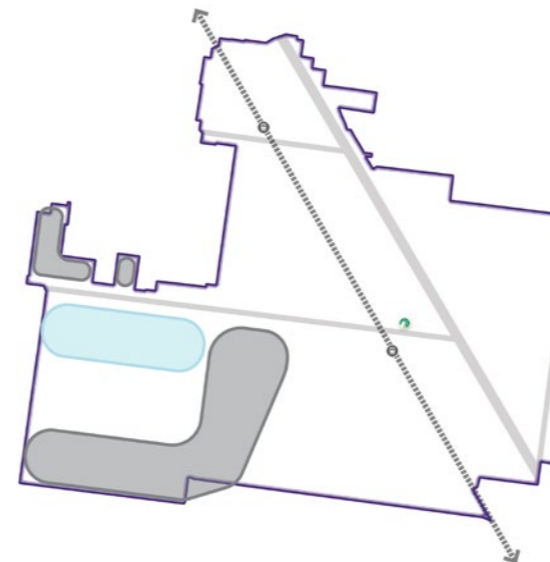
High-rise precedent



Strategy UF4: Employment growth

Provide for fine-grain and large lot employment growth in a highly adaptable mix of employment land uses.

The employment growth neighbourhood should support the intensification of jobs growth, which supports emerging creative enterprises and prioritises creative and knowledge intensive employment. The landscape character and street level activation of this area should be enhanced.



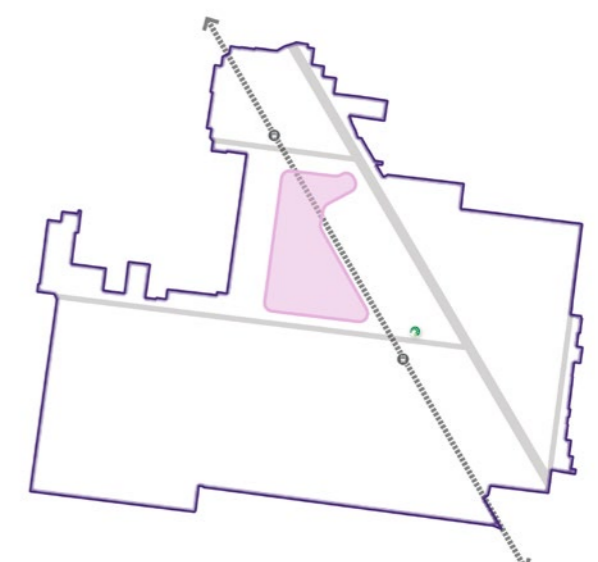
Employment Growth precedent



Strategy UF5: Mixed-use neighbourhoods

Facilitate mid-rise Mixed-use neighbourhoods adjacent to the urban core or nearby transport nodes.

An adaptable building typology which can accommodate a range of land uses and has a commercial-capable ground floor design should be provided in Mixed-use neighbourhoods.



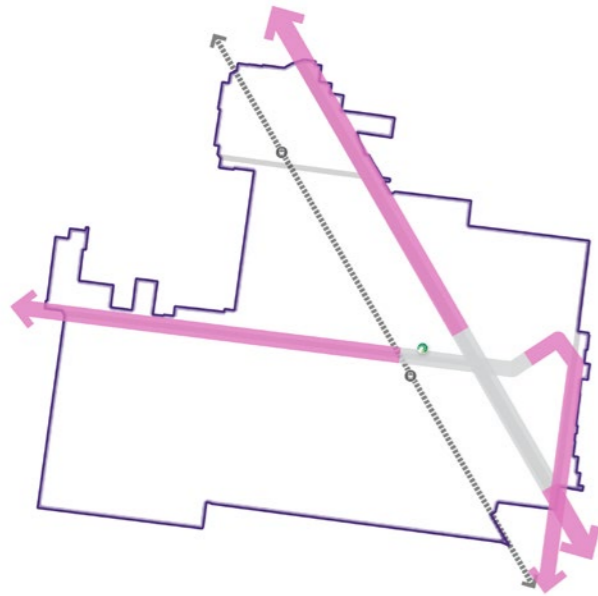
Mixed use precedent



Strategy UF6: Boulevards and Avenues

Facilitate continuous, Mixed-use, mid-rise built form along main roads.

Buildings should strongly frame the wide roads, and provide an adaptable building typology with commercial-capable ground floors.



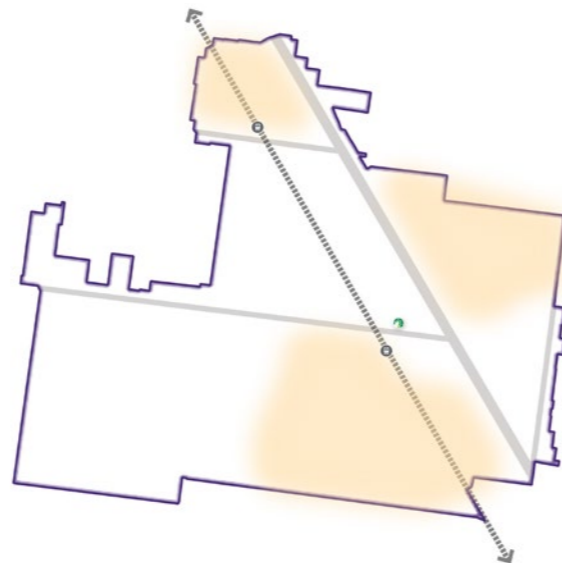
Boulevards and avenue precedent



Strategy UF7: Residential neighbourhoods

Promote low to mid-rise apartment buildings and townhouses in a garden setting in most residential neighbourhoods.

Buildings should promote the existing garden setting and feature front, side and rear landscape setbacks, on single and consolidated lots.



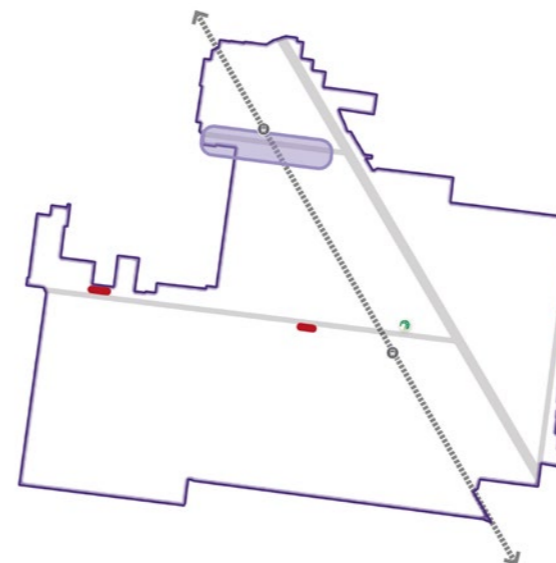
Residential precedent



Strategy UF8: Main streets and existing small retail strips

Complement the fine-grain, low-rise character of local shopping strips.

Main street buildings and buildings located within existing small retail strips should complement the existing scale and rhythm of the streetscape, maintain amenity to the public realm and support a retail ground floor.



Main street precedent




Place types

As a result of the urban form design directions and strategies, a pattern of distinct place types has emerged within the Structure Plan Area.

Each place type represents a different urban form outcome which capitalises on its existing attributes and supports its desired land use function, reinforcing their collective diversity, individual identity and sense of place.

Legend

-  SRL station
-  Existing train station
-  Structure Plan Area
-  SRL East alignment
-  Central Core
-  Central Flanks
-  Main Streets
-  Key Movement Corridors
-  Urban Neighbourhood
-  Residential Neighbourhood
-  Strategic Site
-  Employment Growth
-  Enterprise Neighbourhood
-  Civic areas
-  Public Open Space
-  Recently approved development plan

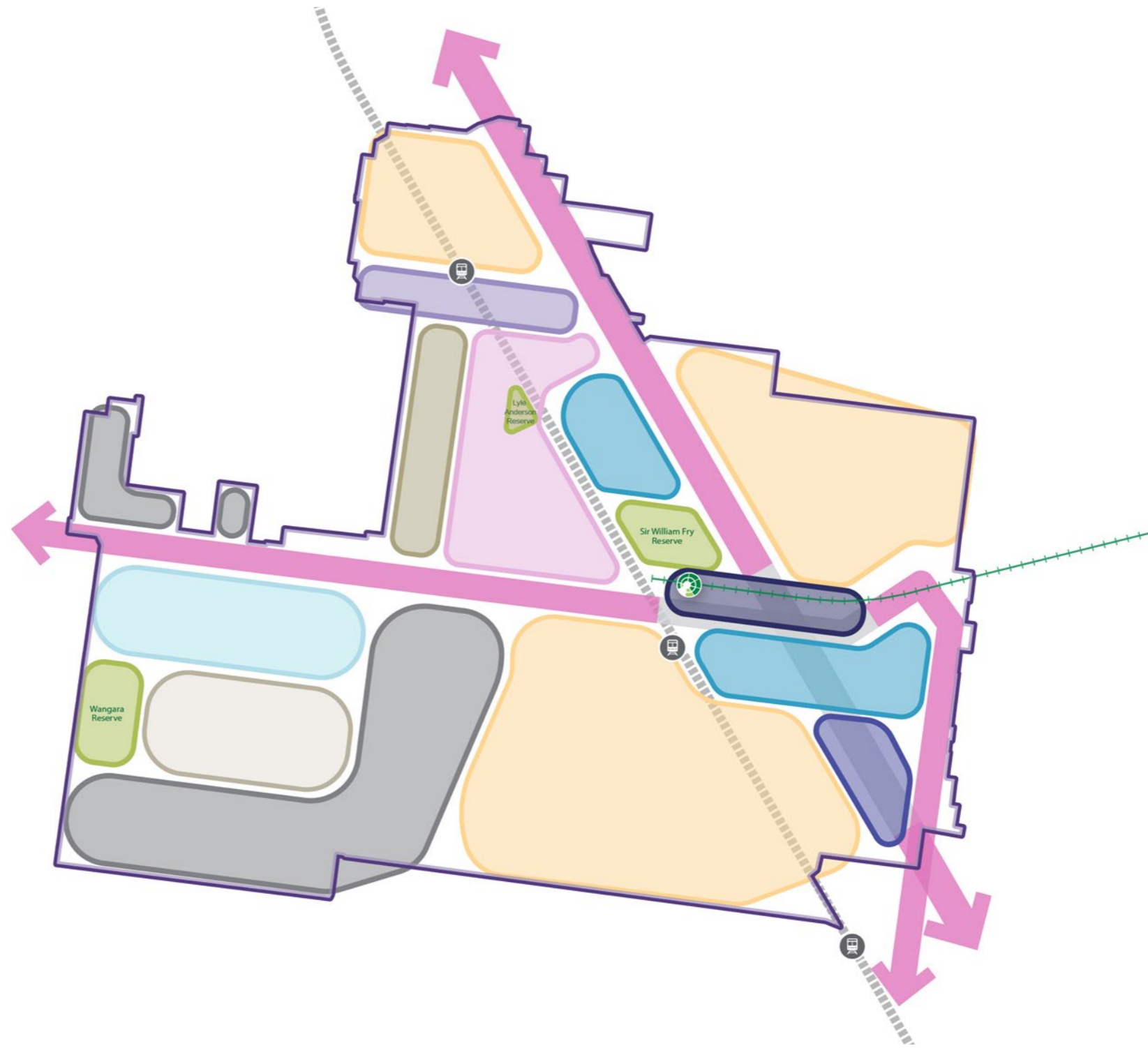


Figure 4.4: Place types

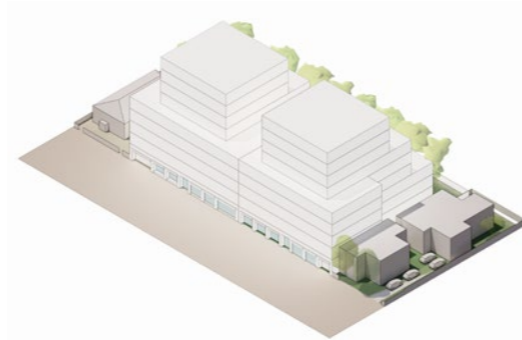


Place type: Central Core

The development type recommended in the Central Core is the high-rise podium-tower. Medium-high rise towers in the form of podium-tower buildings can deliver the level of intensification envisaged for the Central Core. Smaller lots will require lot amalgamation to enable the development of podium-tower buildings.

Provided it is appropriately-scaled, the podium provides a street-edge form that facilitates good public realm amenity in terms of human scale, sky views, sun and wind conditions, and complements the existing character, which generally comprises low-rise street walls. Best practice podium-tower design includes active street facades with any above-ground car parking 'sleeved' behind other uses, and well-separated towers with generous setbacks.

A mix of uses is necessary to deliver the desired vibrancy and activation. The podium-tower format enables a range of retail types in the podium and office and/or residential uses above.



Place type: Central Flanks

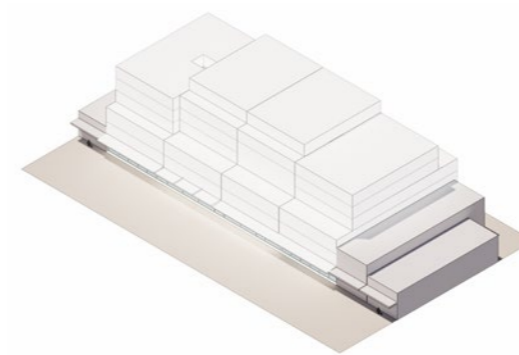
The development type recommended in the Central Flanks is the mid-rise podium-tower. It delivers high density while maintaining good solar provision to the public realm. This type typically requires a large lot or lot amalgamation.

The zero front setback and lack of side setbacks at the base of the building ensure a highly-activated and strongly-framed public realm. This will complement the prevailing existing character of low-rise buildings.

The strong relationship with the street also supports commercial uses at ground and potentially upper levels to provide the desired vibrancy and activation. Best practice design provides for car parking in a basement or 'sleeved' behind other uses.

Behind the street wall, the base of the building is set back from the side and rear boundary to provide space for tree planting. This typology provides a 5 to 10 per cent deep soil area at the sides and rear of the lot.

Above the street wall, the upper levels are setback from all sides to maintain sunlight, sky views and a sense of openness in the public realm. These setbacks also maintain good internal amenity and equitable development opportunities on neighbouring properties.



Place type: Main Streets

The development type recommended in the Main Street place type is shoptop infill.

This development type provides for employment and housing growth and increased vibrancy, particularly outside retail hours, while complementing the existing character and providing a high level of pedestrian amenity.

It relies on the amalgamation of up to three typical lots, to create a feasible site width.

The proposed type incorporates a 2 to 3-storey, zero setback, boundary-to-boundary street wall that will complement the existing vibrant and memorable character created by low-rise, continuous, active streetscapes.

The street wall is articulated to reflect the existing fine-grain character and activated by commercial ground floor uses.

Above the street wall, upper levels are set back to ensure an appropriate balance between openness and enclosure in the street, along with good solar access.

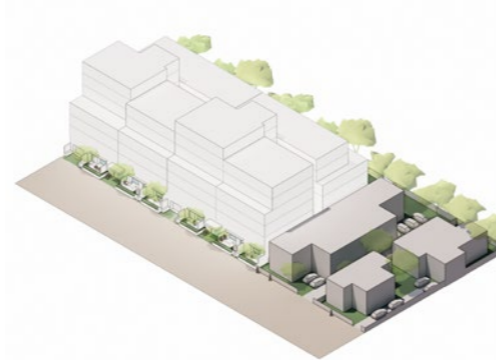
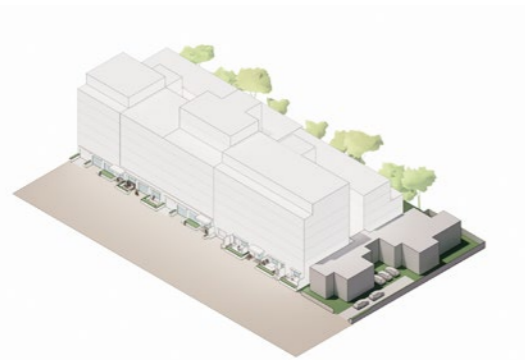
The proposed use-mix varies with the role and function of the urban form area.

Development types

A range of development types was explored for each place type based on their specific opportunities and constraints, and desired land use outcomes.

While the development types were employed to develop the Urban Form Framework for the Structure Plan Area, the proposed typologies are indicative and, in reality, a range of built form outcomes is likely to occur.

The development types were informed by research into best practice development typologies, contained in SRL East Structure Plan - Urban Design Supporting Research - Attachment A.



Place types: Key Movement Corridors and Urban Neighbourhoods

The development type recommended in the Key Movement Corridors and Urban Neighbourhoods is urban infill. These highly adaptable buildings are able to accommodate commercial and / or residential uses. They deliver moderately high density along main roads, in accordance with Strategy UF6: Boulevards and Avenues, without the potentially adverse impacts of taller buildings on local character and amenity. Importantly, this development type can be developed on the vast majority of the lots found in these urban form areas without the need for lot amalgamation.

Urban infill development provides a vibrant and memorable urban character, good private amenity and protection of neighbouring amenity to the rear, adaptability for mixed and changing uses, and reasonable space for tree canopy cover. The minimal front setback and lack of side setbacks ensure a well-activated and strongly-framed public realm. The strong relationship with the street also supports commercial uses at ground or upper levels where desired.

The primary orientation of accommodation to the street and middle of the block enables differing uses to comfortably exist side-by-side where relevant. Generous rear setbacks ensure good amenity for accommodation facing towards the middle of the block, including adjacent properties to the rear, and space for tree planting.

As the Key Movement Corridors and Urban Neighbourhoods evolve through new urban infill development, they will experience a substantial change in character. As noted in Design Direction 5, this is considered to be an inevitable outcome of the vision for transformational change. This kind of transition in character is consistent with other transforming areas such as Brunswick Activity Centre, Cremorne and Box Hill between Whitehorse Road and the hospital. Low-rise dwellings will no longer represent the preferred character, and will increasingly become anomalies.

The sheer on-boundary side walls of urban infill development will change the amenity of any neighbouring low-rise dwellings to the side. However, the lack of side setbacks is necessary to enable viable development of appropriate density on single lots and avoid constraining development on neighbouring properties to the side, in accordance with Strategy BF11: Building orientation. The introduction of side setbacks to protect the existing amenity and character would mean that lot amalgamation is required to achieve a viable floorplate, and greater height is needed to maintain the density envisaged by Strategies UF5: Mixed-use neighbourhoods and UF6: Boulevards and Avenues.

The majority of lots in this place type are occupied by detached dwellings whose primary orientation is towards the street and a rear garden, rather than towards side boundaries. Therefore, the impact of sheer on-boundary side walls will be generally limited to the secondary rooms that face side boundaries.

Urban Infill development is proposed to have a generous rear setback, which will limit its impact on the amenity and equitable development of neighbouring rear gardens. The rear setbacks of existing and future development will ultimately combine to form a large green space in the middle of the block.

The building height and upper level street setbacks vary based on street width to ensure an appropriate balance between openness and enclosure in the street, along with reasonable solar access. In the Key Movement Corridors, urban infill provides a taller street wall, with upper levels maintaining a 1:1 ratio with the street. In the Urban Neighbourhoods, it provides a street wall equal to the street width, with upper levels setback to maintain an open character.

This development type includes a landscaped front setback as well as a generous, landscaped rear setback, resulting in a combined 10 to 15 per cent deep soil area.

The proposed use-mix varies with the role and function of the urban form area.

Place type: Residential Neighbourhoods

The development types recommended in the Residential Neighbourhoods are the garden apartments, which are apartments on amalgamated lots, generally equal or greater than 24 metres in width, and townhouses on single lots, generally less than 24 metres in width.

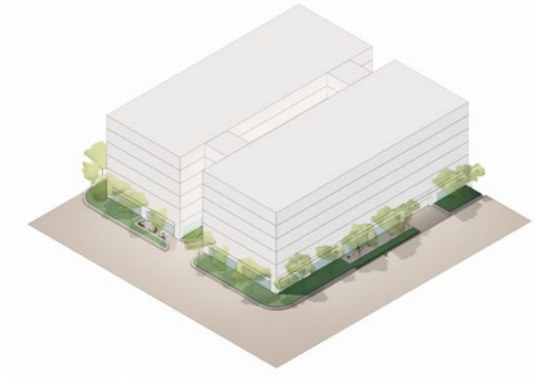
The garden apartment development type provides for the same type of development on amalgamated lots as proposed in Phase 2 of the Future Homes program or, going back further, the art deco apartment boom of the 1920s and 30s, but with a slightly increased density, which is considered appropriate because these areas are within walking distance of a higher order (SRL) station. However, the density is limited to mediate the transition in character and provide a different housing choice than that offered in other urban form areas. In particular, approximately 20 per cent of the apartments will have generous ground level gardens, making them suitable for families.

The development of 4 to 6-storey garden apartments rely on the amalgamation of two typical lots, which is necessary to deliver higher-density while providing good-quality internal amenity and providing a well-landscaped perimeter.

Importantly, lot amalgamation enables generous side and rear setbacks which will provide for high-quality on-site amenity and significant contribution to tree canopy cover. This typology provides a 35 per cent deep soil area across the front, sides and rear of the lot.

The substantial provision for canopy trees in front, side and rear setbacks will retain and strengthen the leafy character that predominates in these areas. These trees will significantly mitigate the visual presence of taller buildings on the existing streetscape and backyard character of these areas.

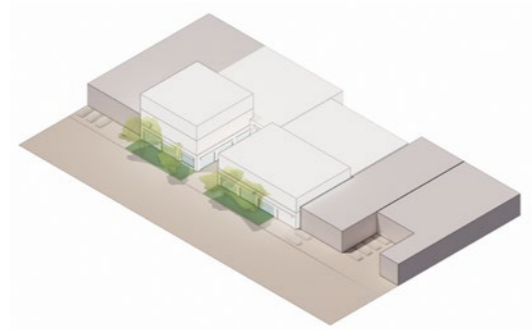
The development of 3-storey townhouses with lesser side setbacks are appropriate on typical single lots, generally less than 24 metres in width. Low front fences and front doors and windows facing the street will provide passive surveillance of the street.



Place type: Employment Growth

The development type recommended in the employment growth areas is the 'large freestanding building'. This development type provides the large floor plates typically required for employment uses. Its moderate building height contributes to memorable, well-framed spaces with good amenity.

The large lot sizes in of these areas provides opportunities for larger footprint buildings and generous tree planting. This typology provides a 25 per cent deep soil area in the front setback and consolidated garden areas.



Place type: Enterprise Neighbourhood

A range of development type are envisaged in the Enterprise Neighbourhoods In order to host a wide range of employment uses. This may include a freestanding building on larger or amalgamated lots, or a boundary-to-boundary infill building on narrower lots.

Importantly, buildings in these areas should position loading and servicing activities away from the street frontage, and instead address the street with their most active uses and incorporate a modest landscaped setback. This will contribute to a more inviting streetscape, attracting new businesses to the area. This typology provides a 5 to 10 per cent deep soil area at the front of the lot.

Place type: Strategic Sites

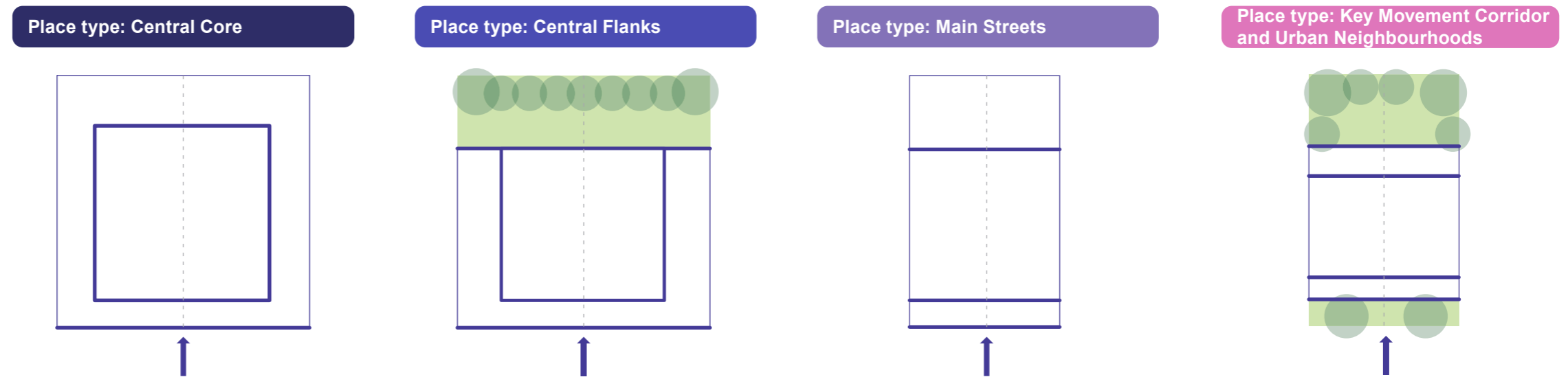
The Southland Shopping Centre and Highett Gasworks Strategic Sites have increased capacity for intensification and strong potential to deliver SRLA policy objectives and/or public benefit outcomes.

These are large sites which will have a varied built form and public realm outcome and will require additional design testing and resolution beyond the role of this report. Initial design direction for these sites is provided in section 6.7.

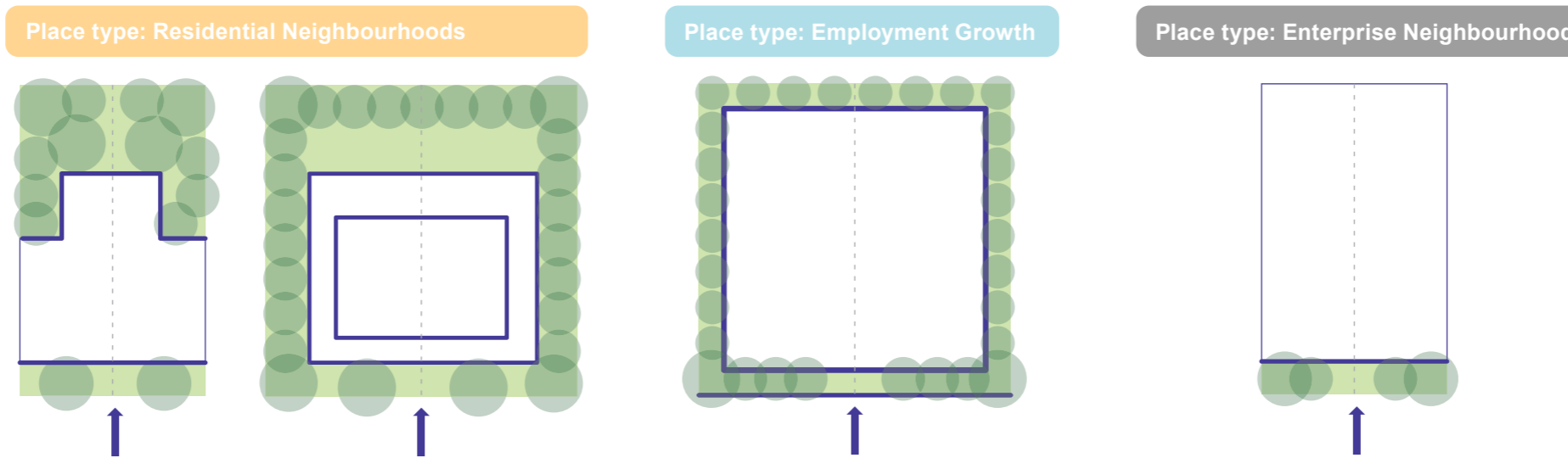
These sites will require the application of bespoke planning controls to provide direction on future development.

Development typology outcomes

The following diagram provides a comparison of the general outcomes achieved by each development type.



Height	More than 15 storeys	10 storeys	7 storeys	8 storeys
Density	6:1 or more	4.5:1	4:1	3.5:1
Deep soil area and canopy trees	0 per cent	5 to 10 per cent	0 per cent	10 to 15 per cent
Use mix	Mixed-use	Mixed-use	Mixed-use	Mixed-use
Application	Commercial/retail core / SRL station area	Outer core	Mixed use or retail streets	Mixed-use or higher-density area



Height	2 to 3 storeys	4 to 6 storeys	6 to 8 storeys	2 to 6 storeys
Density	1.2:1	2:1	4:1	-
Deep soil area and canopy trees	20 to 25 per cent	35 per cent	25 per cent	5 to 10 per cent
Use mix	Residential	Residential	Mixed-use	Mixed-use
Application	Residential area single lot	Residential area two lots	Employment	Employment

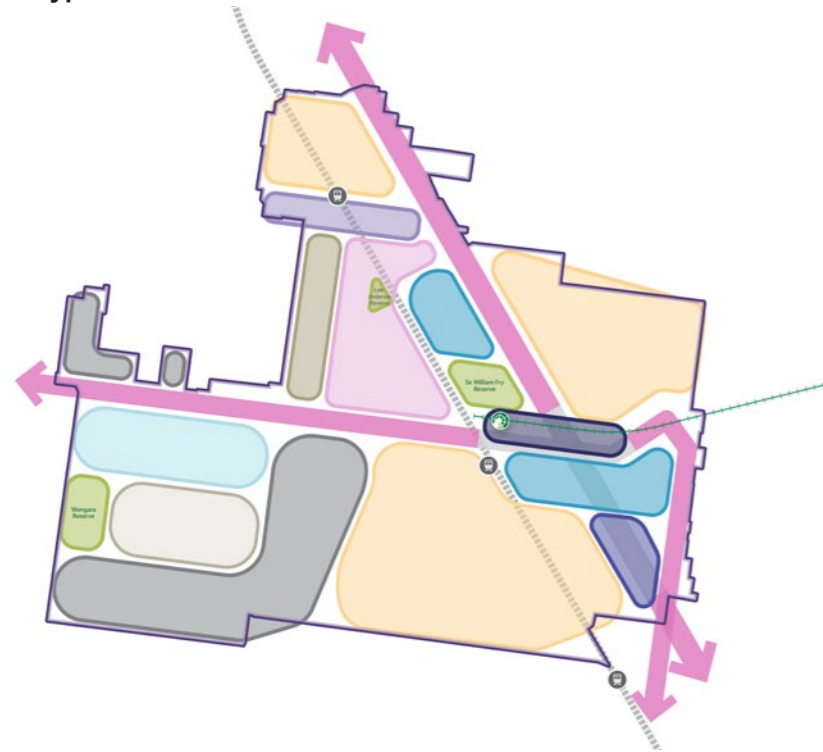
4.4 Urban Form Framework

The Urban Form Framework outlines the future urban form and land use attributes for the Structure Plan Area. It has been developed by refining the pattern of place types into collections of more precise urban form areas within the Structure Plan Area based on:

- Existing urban structure such as key movement corridors, barriers and key anchors (see Section 2.5)
- Existing character attributes
- Areas with a similar level of constraints to urban form change (see Figure 4.3)
- Existing land use pattern
- Cheltenham Vision
- Land use directions.

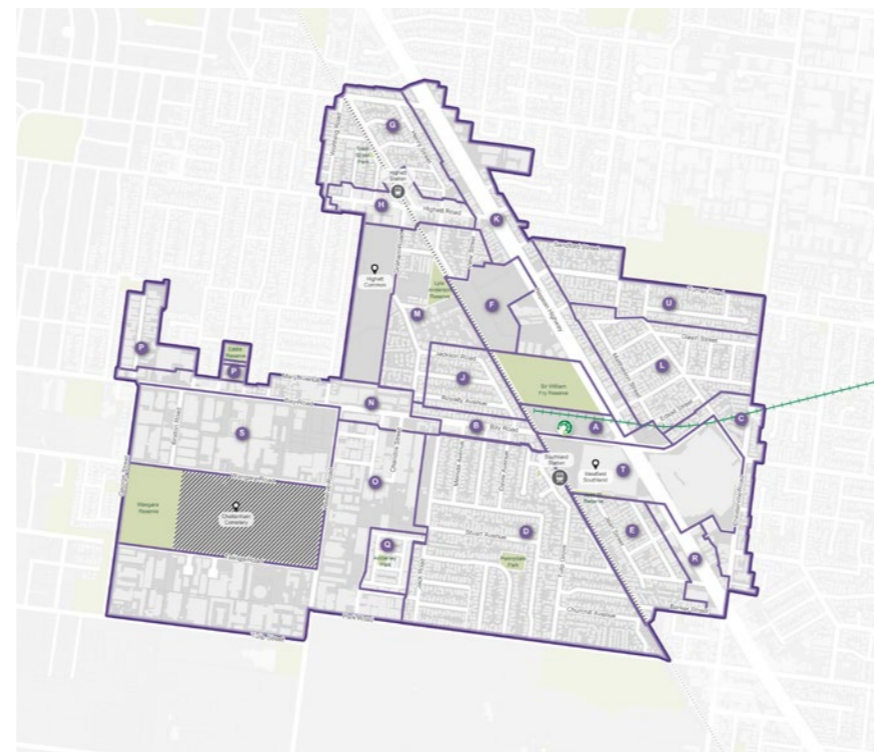
The urban form areas are outlined on the following pages.

Place types



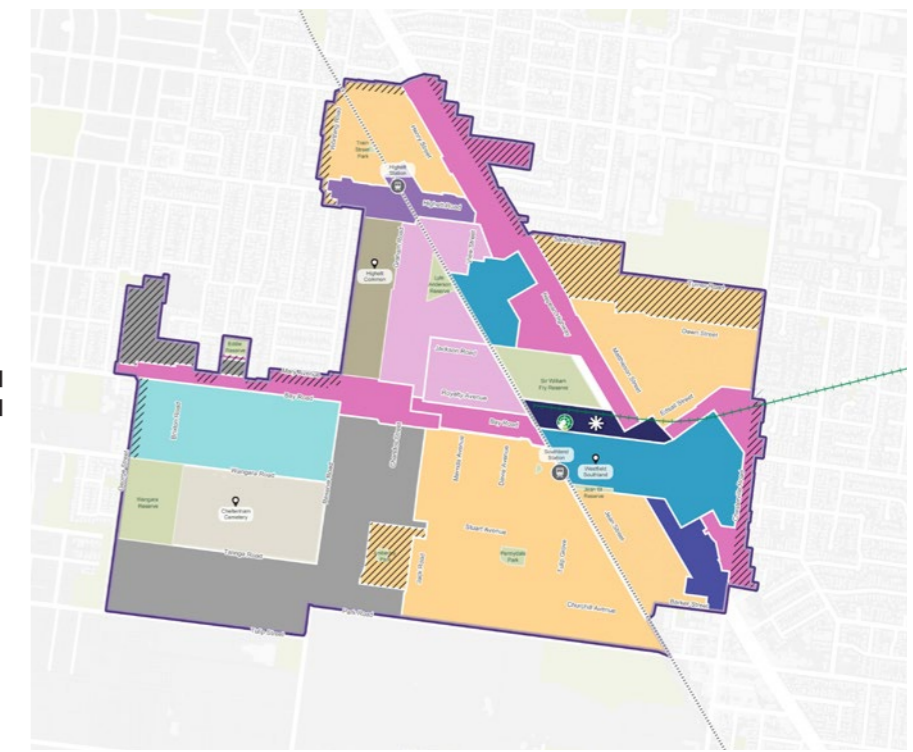
+

Urban form areas



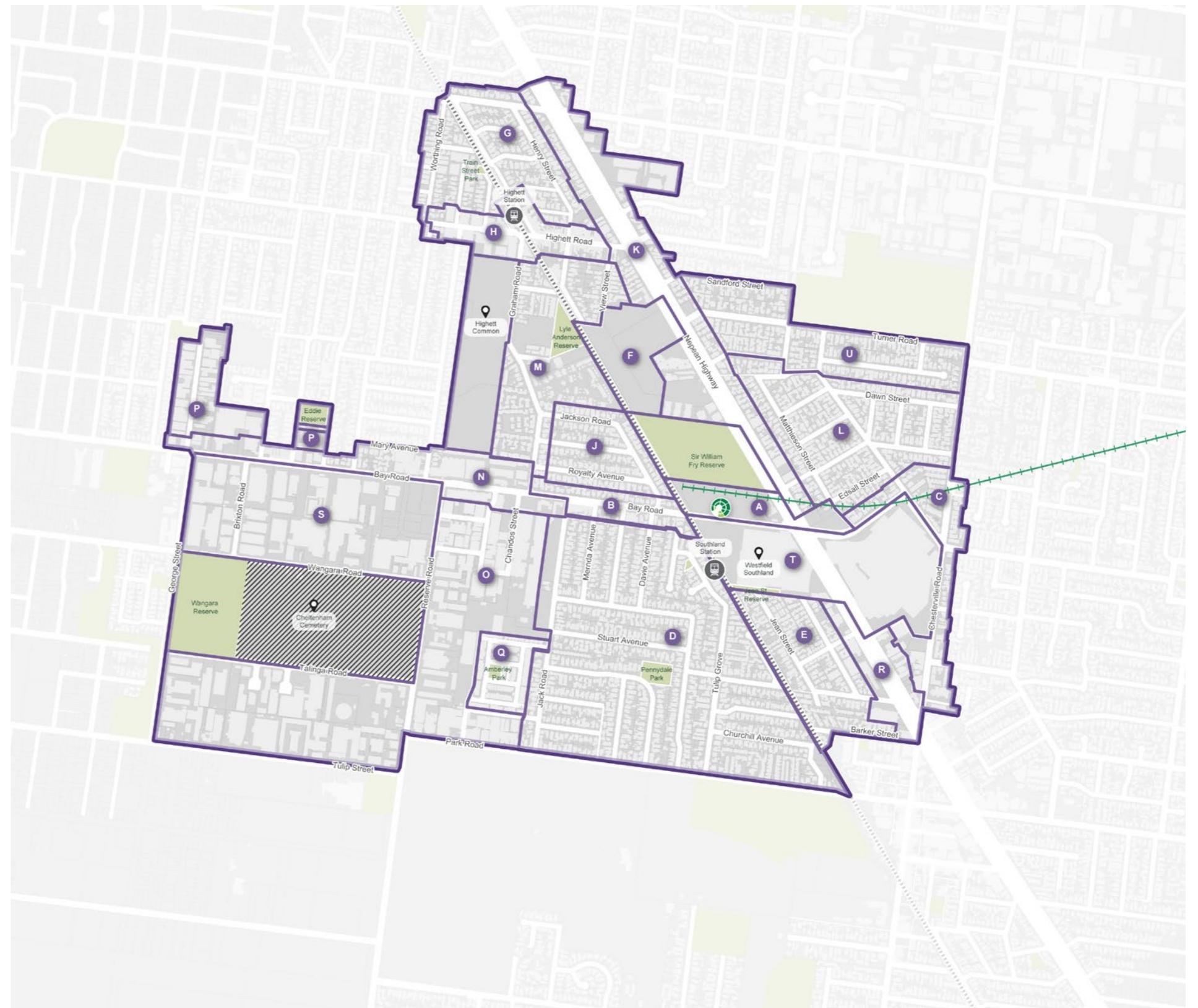
=

Urban Form Framework



4.5 Urban form areas

Figure 4.5 identifies the future urban form areas and the following pages describe their attributes, grouped by place types.



Legend







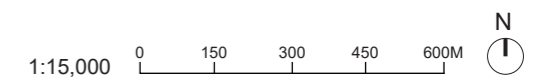
-  SRL station
-  Existing train station
-  Structure Plan Area
-  SRL East alignment
-  Urban form area
-  Civic areas - state or local government or institutional land not envisaged to undergo substantial change.
-  Open spaces

Figure 4.5: Future urban form areas



Place type: Central Core

The urban form areas within the Central Core are the most accessible and contain the SRL station and existing Southland Station. To continue to provide for high-density employment and retail uses, and capitalise on the high level of accessibility and services available, a podium-tower development type is recommended.

A Core Area

This is the most accessible part of the Structure Plan Area. It contains the SRL station, the station development area (Strategic Site and the existing Southland Station). All of the Core Area is currently zoned C1Z, except the SRL station area which is zoned PPRZ and C2Z, and the northern Southland car park which is zoned MUZ. The area directly interfaces Sir William Fry Reserve to the north.

Place type: Central Flanks

The urban form areas within the Central Flanks are highly accessible and comprise commercial, and residential land uses. To continue to provide for mid-density employment and retail uses, a mid-rise podium-tower development type is recommended. This form also supports pedestrian-favoured streets with good amenity and street life.

R Nepean Highway South

Nepean Highway South comprises land fronting Nepean Highway as it passes through the Structure Plan Area south of the Core Area. It is currently characterised by a mix of low-rise commercial buildings, with few development constraints. The presence of public transport on Nepean Highway, and the width and character of Nepean Highway creates a distinct opportunity for taller buildings in this area. The area is currently zoned C1Z and C2Z.

Place type: Main Streets

The urban form area comprises the traditional retail strip and commercial properties along Highett Road. To continue to provide mid-density uses while ensuring the 'Main Street' Character of Highett Road is maintained.

H Highett Road

Highett Road comprises commercial properties fronting that street at the core of the Highett Activity Centre. It is currently characterised by small, 1 to 2 storey shops built boundary-to-boundary to the east of the rail line, with larger stores to the west including the recent Mixed-use Woolworths development. The width and accessibility of Highett Road, including its adjacency to Highett Station, present an opportunity for development of increased scale. However, the narrow width and small size of the majority of the properties east of the rail line will constrain redevelopment. The land is currently zoned C1Z.

Place type: Key Movement Corridors

The urban form areas within Key Movement Corridors have varying degrees of accessibility, and comprise a mix of low-rise commercial development and detached residential dwellings set along grand boulevards and avenues. To frame the public realm and provide adaptable buildings, the urban infill development type is recommended.

B Bay Road

Bay Road comprises properties fronting the street between the Bayside Business District and existing rail line, immediately west of the Core Area. It is currently characterised by detached dwellings in garden settings, with a small shopping strip to the south-west. The main road character of this street presents the potential for an increase in scale. There are relatively few development constraints other than narrow lots in the shopping strip, presenting the opportunity for wholesale character change through widespread redevelopment. This area is currently zoned GRZ except the shopping strip which is zoned C1Z.

C Chesterville Road

Chesterville Road comprises properties fronting Karen Street, Tennyson Street and Chesterville Road in the eastern part of the Structure Plan Area. It includes car parking around the Southland Shopping Centre. Other than that, it is currently characterised by residential units in the north, detached houses in the east and low-rise commercial buildings on the west side of Chesterville Road in the south. The main road character of these streets presents the potential for an increase in scale. In particular, the detached dwellings have few development constraints, presenting the opportunity for redevelopment to create a more consistent medium-density character. The residential land is currently zoned GRZ and the commercial land is zoned C1Z.

K Nepean Highway North

Nepean Highway North comprises land fronting Nepean Highway as it passes through the Structure Plan Area north of the Core Area. It is currently characterised by detached dwellings in garden settings on the west side north of Highett Road, commercial buildings on the east side north of McFarlane Court (including three large-format retail stores), and residential units south of those side streets. The residential units are strata-titled, which will constrain redevelopment. However, the public transport, width and character of Nepean Highway creates a distinct opportunity for taller buildings. The residential properties are currently zoned GRZ and the commercial properties are zoned C2Z.

N Bay Road West

This area comprises properties fronting Bay Road in the western end of the Structure Plan Area, through the Bayside Business District. It is currently characterised by low-rise industrial buildings, with a short stretch on the north side characterised by residential units and detached dwellings. The public transport, width and exposure of Bay Road creates a distinct opportunity for taller buildings. The area is currently predominantly zoned C2Z with short stretches of C1Z and MUZ on the north side.

Place type: Urban Neighbourhoods

The urban form areas within Urban Neighbourhoods are residential-focused, Mixed-use neighbourhoods close to the commercial/retail core and/or public transport. To create a continuous, activated street wall which complements the scale of the street, with a landscape setback and mid-rise building form, the urban infill development type is recommended.

M Graham Road

Graham Road is a residential area bound by the former CSIRO site to the west, Highett Activity Centre to the north and Gasworks site to the east. It is bisected by Frankston rail line and includes Lyle Anderson Reserve and the Highett Bowls Club. It is currently characterised by various forms of medium-density housing on the west side of the rail line, including in the Dunkley Fox social housing estate, and detached houses in garden settings on the east side of the line. The adjacency of the Highett Activity Centre and higher-density master planned developments on the former CSIRO and Highett Gasworks sites support higher density, mixed use development. The detached dwellings have few development constraints, presenting the opportunity for redevelopment to create a more consistent Mixed-use, higher-density character. The land is currently zoned GRZ, except the open space which is zoned PPRZ.

J Jackson Road

Jackson Road is a residential area immediately northwest of the Core Area. It is currently characterised by detached dwellings in a garden setting. The detached dwellings have few development constraints, presenting the opportunity for redevelopment to respond to the proximity of the SRL station, Cheltenham Activity Centre and Sir William Fry Reserve. It is currently largely zoned GRZ.

Place type: Employment Growth

The urban form areas within Employment Growth are comprised of a range of industrial and commercial buildings of varied sizes on large lots. To provide for intensification of jobs, with a high-quality public realm the freestanding employment development type is recommended.

S Bayside Business District- Wangara Road

Bayside Business District-Wangara Road comprises large industrial land in the western part of the Structure Plan Area, south of Bay Road. Direct access from Bay Road with development constraints provide the opportunity for redevelopment of higher-order employment uses. It is currently zoned C2Z.

Place type: Residential Neighbourhoods

The urban form areas within Residential Neighbourhoods are comprised of low-rise residential areas in the outer parts of the Structure Plan Area. To maintain the 'leafy' character whilst providing for increased residential density, the garden apartment development type is recommended. In places with specific character attributes requiring protection, or at the edge of the Structure Plan Area, a 4-storey garden apartment development type is recommended.

D Pennydale

Pennydale is a residential neighbourhood immediately south-west of the Core Area. It is currently characterised by detached dwellings in a garden setting. It has relatively little unit development or other development constraints. This presents the opportunity for wholesale character change through widespread redevelopment in response to the proximity of the SRL station at Cheltenham and associated activity centre. It is currently largely zoned GRZ.

E Jean Street

Jean Street is a residential area immediately south of the Core Area between the Frankston rail line and Nepean Highway. It is currently characterised by a mix of residential units and low-rise apartment buildings. The remaining detached dwellings have few development constraints, presenting the opportunity for redevelopment to respond to the proximity of the SRL station and activity centre, and create a more consistent medium-density character. It is currently zoned GRZ.

G Highett North

Highett North is a residential area north of the Highett Activity Centre. It is currently characterised by detached dwellings in a garden setting. The detached dwellings have few development constraints, presenting the opportunity for redevelopment to respond to the proximity of Highett Station and Activity Centre. It is currently largely zoned GRZ.

L Highett East

Highett East is a residential area east of Nepean Highway, extending from the Core Area to Chesterville Road. It is currently characterised by a mix of residential units and detached dwellings in a garden setting. The detached dwellings have few development constraints, presenting the opportunity for redevelopment to create a more consistent medium-density character. It is currently zoned GRZ.

Q Pallisades Boulevard

Pallisades Boulevard is a recent medium-density housing development, comprising townhouses surrounding Amberley Park. It is unlikely to see redevelopment in the near future. The area is zoned MUZ.

U Highett Reserve

Highett Reserve is a residential area in the north-east of the Structure Plane Area south of Turner Road. It is currently characterised by a mix of residential units and low-rise apartment buildings. The remaining detached dwellings have few development constraints, presenting the opportunity for redevelopment to respond to the proximity to Highett Reserve. It is currently zoned GRZ.

Place type: Enterprise Neighbourhood

The urban form areas within Enterprise Neighbourhood are comprised of low-medium rise light-industrial buildings with front setbacks set along streets. To support a wide range of employment uses, a specific development type is not recommended. However, buildings should enhance the public realm through front setbacks and by locating loading and servicing activities away from the street.

O Bayside Business District-south

Bayside Business District-south comprises industrial land in the western part of the Structure Plan Area east and west of the Cheltenham Cemetery. The land has few development constraints, presenting an opportunity for intensification of employment uses. It is currently zoned C2Z.

P Advantage Road

Advantage Road comprises small pockets of industrial land in the west of the Structure Plan Area, north of Bay Road. The land has few development constraints, other than a some strata-titling, presenting an opportunity for redevelopment for higher-order employment uses. It is currently zoned C2Z.

Place type: Strategic Sites

The Strategic Sites include the Southland Shopping Centre and the Former Gasworks. These sites will require further design investigations and the application of bespoke planning controls to provide direction on it's future development.

F Highett Gasworks

This area primarily comprises the former Highett Gasworks, which is a very large vacant site offering a rare opportunity for a master planned development and providing a different offer to the surrounding urban form areas. It contains a heritage chimney and has environmental constraints associated with its former use. The Highett Gasworks area also includes a partly-completed master planned and higher-density residential development located along Remington Drive. The Moorabbin Magistrates Court is also located here. It is currently zoned RGZ except the courthouse which is zoned PUZ.

T Southland Shopping Centre

Southland is an inward-facing regional shopping centre with large-format buildings on both sides of Nepean Highway. It has extensive car parking and associated services, which act as a barrier to north-south pedestrian movement across the Structure Plan Area.

Given the location of the large land holding next to a new public transport interchange node and the SRL Central Core, there is a significant opportunity for intensification within the area, as well as more permeability and public realm amenities. This area is currently zone C1Z.

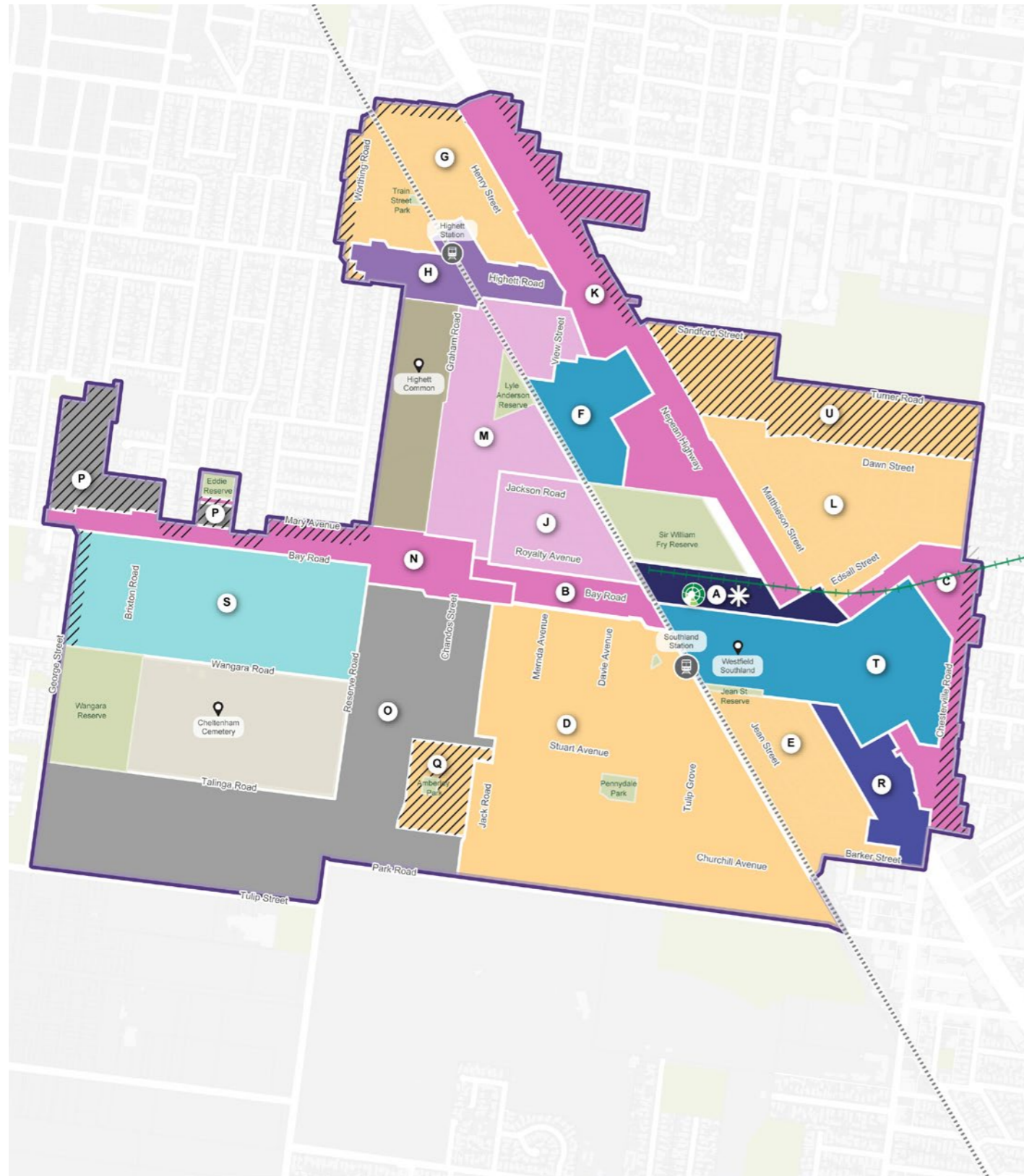
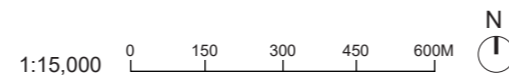


Figure 4.6: Urban Form Framework



Legend	Place type	Urban form area	Indicative density ⁽²⁾	Indicative building height ⁽¹⁾	Land use priority
	Central Core	A - Core Area	FAR 6.5 to 7.5	60 metres (17 storeys)	Commercial
	Central Flanks	R - Nepean Highway south	FAR 4.5	36 metres (9 to 10 storeys)	Commercial
	Main Streets	H - Highett Road	FAR 4.0	25 metres (6 to 7 storeys)	Commercial
	Key Movement Corridors	K - Nepean Highway north B - Bay Road C - Chesterville Road N - Bay Road west	FAR 3.5	27 metres (6 to 8 storeys)	Mixed-use/Residential Residential Mixed-use/Residential Enterprise
	Urban Neighbourhoods	M - Graham Road J - Jackson Road	FAR 3.0	24 metres (6 to 7 storeys)	Residential
	Residential Neighbourhoods	D - Pennydale E - Jean Street G - Highett north L - Highett east U - Highett Reserve Q - Pallisades Boulevard	Garden apart. FAR 2.0 Townhouses FAR 1.2 Garden apart. FAR 1.5 Townhouses FAR 1.2	Garden apartments 21 metres (4 to 6 storeys) Townhouses 11 metres (3 storeys) Garden apartments 14 metres (4 storeys) Townhouses 11 metres (3 storeys)	Residential Residential
	Employment Growth	S - Bayside Business District- Wangara Road	FAR 4	33 metres (8 storeys)	Employment
	Enterprise Neighbourhood	O - Bayside Business District P - Advantage Road		24 metres (6 storeys)	Employment
	Strategic Sites (Refer to 6.10 Strategic Sites)	T - Southland Shopping Centre F - Highett Gasworks	FAR 6.5 to 7.5 FAR 2.9 ⁽³⁾	50 to 60 metres (14 to 17 storeys) 43 metres (12 storeys)	Commercial Residential

Figure 4.7: Urban Form Framework Table

Legend

- SRL station
- Existing train station
- Structure Plan Area
- SRL East alignment
- Strategic Site - Station development area
- Sensitive, constrained, isolated areas⁽⁴⁾
- Open Space
- Recently approved development plan
- Civic areas - State or local government or institutional land not envisaged for substantial change

1. Indicative heights, which may vary based on specific circumstances. Refer to Section 5.3 for preferred building heights.
2. Indicative densities, which may vary based on specific circumstances. Densities are provided to indicate the intensity of development, not because they are proposed to be translated into planning controls.
3. Strategic Sites and Employment Growth FAR based on an allowance of 30 per cent of the site area for internal roads and open space. Further information on Strategic Sites can be found in Section 6.10.
4. These areas are described in Strategy UF1: Substantial change.



5 Built form

5.1 Introduction

5.2 Built form design directions

5.3 Built Form Framework

5.1 Introduction

This Section identifies the built form outcomes that will support an inviting public realm and shape high quality and responsive development.

The built form design directions, strategies and Framework has been developed concurrently with the Urban Form and Public Realm Frameworks and each informs the other.

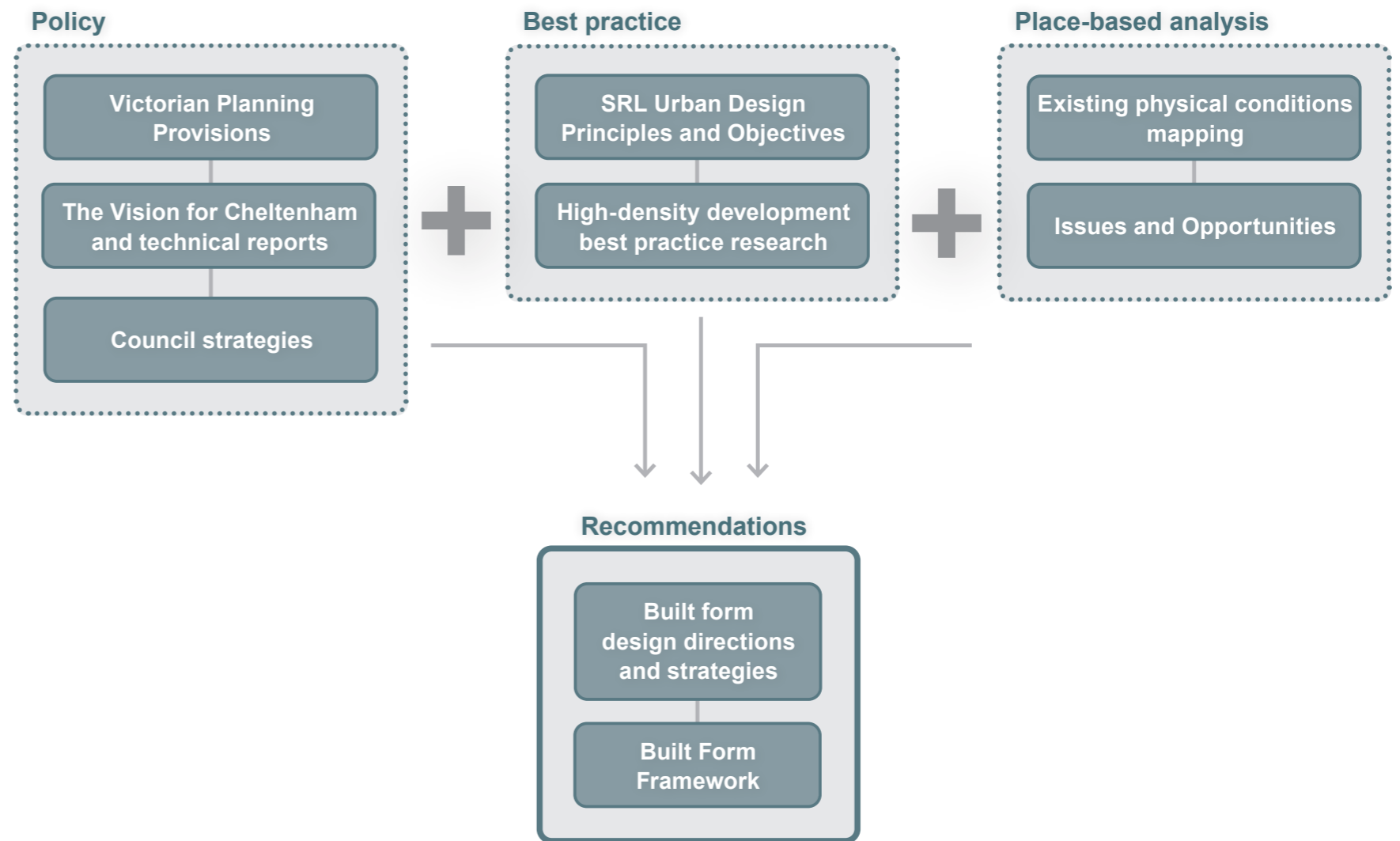


Figure 5.01: Built form methodology summary

5.2 Built form design directions

Built form design directions are proposed to achieve the Cheltenham Vision. They have informed the built form outcomes identified in Section 6.

The order of the design directions in this section does not imply an order of priority.

Design Direction 7: Support an inviting public realm

Why is this important?

Built form should support an inviting and engaging public realm through the distribution of its mass and street edge detail.

Distribution of mass

Development shapes the public realm and strongly influences its amenity. The siting, height and massing of buildings can positively influence the amenity of the adjoining public realm by:

- Framing streets and open spaces, which makes them more memorable
- Maintaining a sense of openness including sky views
- Maintaining solar access to pedestrian spaces.

Continuous street walls provide a more engaging street wall.

Where taller buildings are needed to deliver the desired density, a sense of openness and reasonable access to daylight and sunlight should be achieved.

Engaging facades

Lower-level building facades should contain detail that is visually engaging to enhance the pedestrian experience.

Active building frontages are also key to an inviting and safe public realm. The level of activation that is appropriate varies between employment areas and residential areas.

This includes consideration of:

- Building alignment
- Building massing and composition including rhythm and grain
- Design detail and building facade materials.

Buildings in high pedestrian activity areas should have the highest level of activation, given their pedestrian density.

Employment areas tend to have lower levels of pedestrian activity, so a lesser level of activation is acceptable. However consideration should be given to employment areas needing to support 24-hour workers.

Residential areas benefit from a quieter environment. However, it is important that they provide passive surveillance to contribute to the safety of the public realm. 'Back-of-house' uses such as car parking and car park entries, building services cabinets and loading areas should be positioned away from the primary frontage.

Solar access in the public realm

Sunshine is an important component of people's attraction to and enjoyment of public space^{1,2}, as well as their health and wellbeing³. It is essential for plants, enabling sunny open spaces to contribute to cooling, greening and biodiversity in accordance with Strategy PR9 - Public realm landscaping⁴. Sunshine is also said to boost local business by attracting more foot traffic⁵.

An increase in urban density reduces people's access to sun in their private spaces. Therefore, it is important to complement this with good solar access to key public open spaces in higher density areas.

However, maintaining sunlight in the public realm imposes a limit on the potential for taller buildings to provide for growth. Therefore, a balance needs to be struck between these two aspirations, partly by targeting solar access protection to places and times where it is most important.

The different types of public realm, and the importance of solar access in each of them, are as follows:

- **Primary public open space(s) in the Central Core:** This category of spaces includes the centrally located space(s) that will provide the primary forum for public events such as festivals, performances, parades, markets, and so on. Year-round sunshine is important to ensure that the primary open space(s) in the Central Core attract people to support events and informal public activity
- **Activity Streets:** These streets generally lie within the Central Core and are where the highest level of public life is sought. Sunshine is important in the pedestrian areas in Activity Streets to support public life
- **Main Street footpaths:** Main Street footpaths are the primary streets within the Main Street place type. These streets are intensively used by pedestrians walking to shops and services, window-shopping and outdoor dining
- **Medium-large parks (>1ha):** Medium-large parks are those greater than 1ha. These have a District or Community catchment classification. Sunlight is important in these spaces as they provide an important year-round recreation function, including for sports activities
- **Small open spaces in Central Flanks:** These spaces are the secondary open spaces within the central area. These spaces provide an important, year-round recreation role for workers (at lunchtime) and residents (particularly on weekends)

- **Small and narrow parks outside the Central Core and Central Flanks:** This category includes a large number of open spaces smaller than 1ha, mainly in residential neighbourhoods. As Community Parks, they provide an important year-round recreation role for residents (particularly smaller children and their parents/ carers).

What is happening now in Cheltenham?

Most of the Structure Plan Area is characterised by low density suburban detached housing of 1 to 2 storeys. This type of built form is generally set back significantly from the street, limiting passive surveillance to the street and a low level of street activation. Its contribution to the public realm is through architectural style and vegetation, rather than framing the streets.

Southland Shopping Centre faces inwards and relies on visitors accessing the centre using a private vehicle. Therefore, the edges of the centre are dominated by car parking with no interaction with the surrounding public realm.

The Bayside Business District is comprised of low-rise industrial buildings on large lots, often with irregular shapes. Often site coverage is quite high, and buildings are generally set back from the street with car parking interfacing with the street.

Alignment with SRL Urban Design Framework:

Design Direction 7 will help to achieve the following SRL Urban Design Objectives:

- Objective UD2.4 Welcoming
- Objective UD4.4 Safer design
- Objective UD5.1 Heritage
- Objective UD5.5 Quality design
- Objective UD6.1 Amenity
- Objective UD6.3 User experience
- Objective UD6.4 Places for people
- Objective UD6.5 Activation.

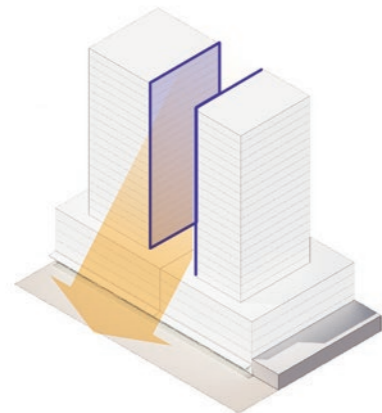
1. *Urban Studies Journal (2015): "The Impact of Sunlight on Social Interaction in Public Spaces: A Case Study of Urban Squares."*
 2. *Journal of Urban Design (2016): "Sunlight and Place-making: Enhancing the Aesthetic Appeal of Urban Squares."*
 3. *Journal of Environmental Psychology (2013): "The Role of Urban Green Spaces in Enhancing Human Health and Well-being: Effects of Sunlight Exposure on Vitamin D Levels."*
 4. *Landscape and Urban Planning Journal (2015): "Sunlight and Urban Green Spaces: Enhancing Biodiversity and Ecological Sustainability."*
 5. *International Journal of Retail & Distribution Management (2018): "The Economic Benefits of Sunlit Public Spaces: A Study of Foot Traffic and Retail Sales."*

How can this direction be achieved in Cheltenham?

Strategy BF1: Tower separation A

Provide sky views and access to daylight in the public realm through setbacks to and gaps between towers in high-rise areas.

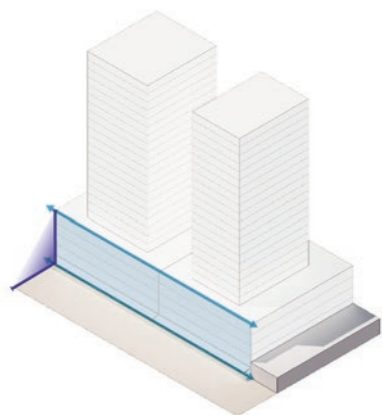
Towers should be set back and separated to support an attractive public realm, allowing for daylight, sky views and shafts of sunlight.



Strategy BF2: Podiums

Create a well-defined urban space in high-rise areas by providing continuous street wall of podium facades.

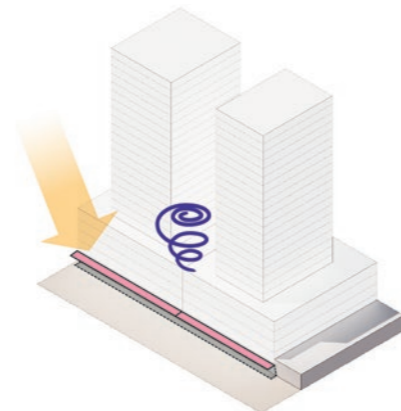
Podiums should be set on the front boundary and extend to both side boundaries to clearly frame the public realm and maximise passive surveillance and activation, with podium car parking 'sleeved' behind active land uses.



Strategy BF3: Weather protection

Podium facades should support pedestrian comfort by providing protection from rain, wind and summer sun.

Where appropriate, rain, wind and summer sun impacts should be minimised through the appropriate design of awnings, architectural articulation and building massing.

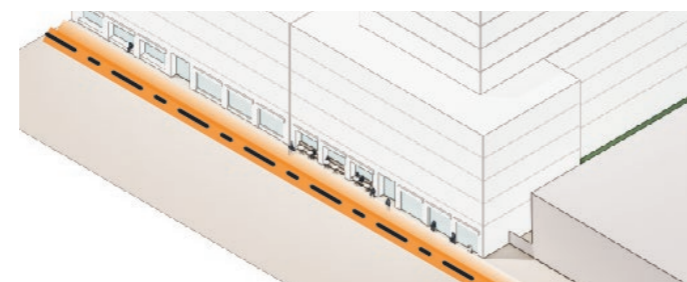


The Wind Technical Report (August 2024) found that when compared to today, the overall wind speeds in the highly-developed future scenario of Structure Plan Area will be reduced and overall wind comfort conditions improved. While some localised unsafe wind conditions were also found in this scenario, these conditions are proposed to be managed through building design at planning permit stage.

Strategy BF4: Footpath widening

Ensure buildings are set back from the street edge to widen the footpath where needed.

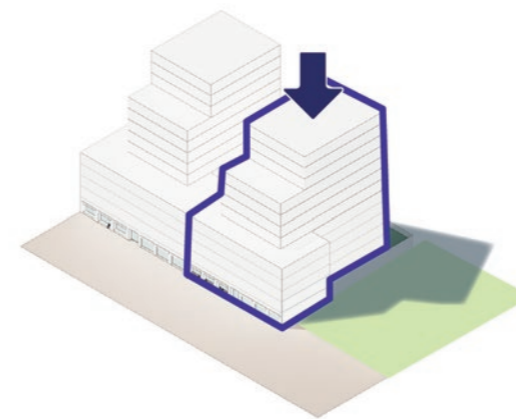
Where a wider footpath is sought, buildings should help to achieve the desired outcome by setting back from the street edge.



Strategy BF5: Sunlight to public realm

Require development to maintain reasonable solar access to key streets and open spaces.

Key streets and open spaces in the Central Core, Central Flanks and Main Streets, and residential parks, should be appropriately protected from overshadowing to support public life and outdoor recreation. A set of solar access standards have been developed which seek to balance the provision of solar access and growth for each type of street and open space. These are informed by recently introduced solar access planning provisions in Victoria, related studies and Planning Panel reports, and site-specific testing (see Attachment C - Assessment of Solar Access to the Public Realm).



Type of space	Recommended standard
Primary public open space(s) in Central Core	50 per cent of the open space for a minimum of 3 hours at mid-winter
Footpaths in Activity Streets	50 per cent of southern, eastern and western footpaths for a minimum of 3 hours at the spring equinox
Main Street footpaths	100 per cent of southern, eastern and western footpaths for a minimum of 3 hours at the spring equinox
Medium-large parks	70 per cent of the open space for a minimum of 3 hours at mid-winter
Small open spaces in Central Flanks	75 per cent of the open space for a minimum of 3 hours at the spring equinox
Small and narrow parks outside Central Core and Central Flanks	50 per cent of the open space for a minimum of 3 hours at the mid-winter

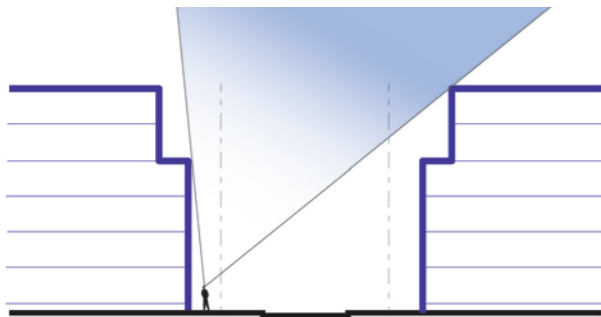
These standards are varied in specific circumstances where the size or configuration of the open space or street, and/or the scale of development envisaged around it, warrant a different solar access outcome.

Strategy BF6: Street scale

Balance street definition and openness outside the precinct core.

Buildings should be appropriately massed to define the street, and upper levels should allow for wider sky views. Upper-level setbacks should contribute to a legible composition, rather than adopting a profile that follows minimum setback requirements which can result in unattractive outcomes.

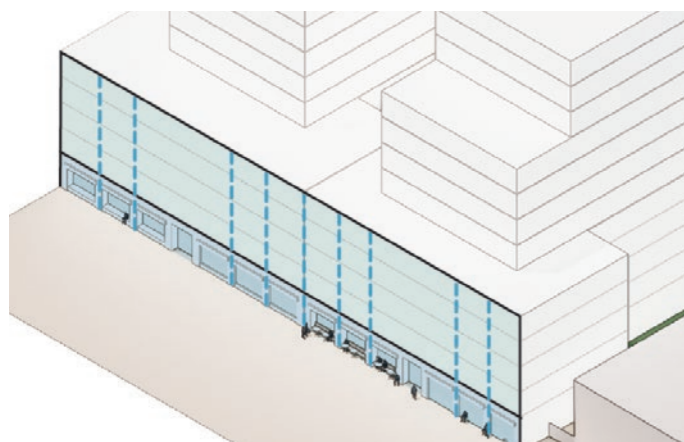
Street walls should be designed to minimise the impact of taller buildings on the public realm, and contribute a sense of enclosure.



Strategy BF7: Engaging facades

Ensure street walls provide visual interest at a pedestrian scale and pace.

Design detail of street walls should balance transparency and solid elements, create a fine-grain vertical rhythm and provide a level of depth, detail and texture to enhance the pedestrian experience.

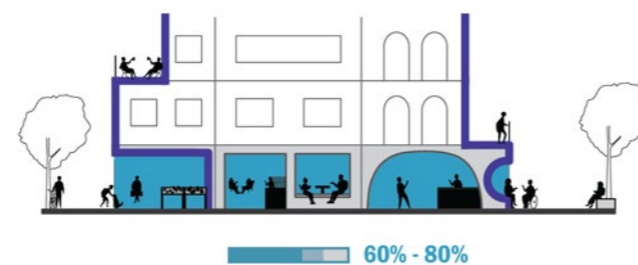


Strategy BF8: Active frontages

Ensure buildings contain active facades in commercial and Mixed-use areas to provide interest and activity through visual engagement between the street and the building and to ensure pedestrian links support safety and user experience.

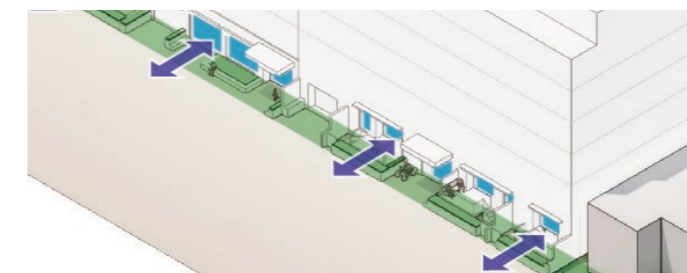
A **highly active frontage** should be provided in the commercial/retail core, main streets and existing small retail strips. This type of frontage should incorporate:

- Building frontages which are set on or within 0.4 metres of the public realm boundary except where an activated front setback is specified (such as outdoor dining or public realm widening)
- Primary ground floor functions that are relevant to passing pedestrians, such as shops and food and beverage outlets (retail, hospitality and entertainment uses)
- An at-grade connection between ground-level tenancies and the street- transitions in floor levels should not rely on external ramps and stairs in the public realm
- 60 to 80 per cent of the combined length of the ground-level interfaces of a building to streets and laneways as a pedestrian entry or clear glazing with regularly spaced solid elements to avoid a predominately glazed appearance along frontages
- A continuous fixed canopy that provides shelter from the rain and summer sun and maintains exposure to the winter sun
- Upper level uses that are active for the majority of the day and evening.



A **moderately active frontage** should be provided in the primary street interfaces of Mixed-use and employment areas. This type of frontage aims to improve the use, safety and experience of the public realm and ensure a high-quality interface between buildings and the street at ground level, which promotes pedestrian amenity and further activation as the precinct evolves. This type of frontage should incorporate:

- A minimum of 40 per cent of the combined length of the ground-level interfaces of a building to streets and laneways as a pedestrian entry or clear glazing
- A floor-to-floor height of at least 4 metres on the ground floor to allow for the adaptation of building uses over time
- Reduced number of vehicular access points to prioritise the experience and safety of pedestrians
- Provide an at-grade connection between usable space within ground-level tenancies and the street. Transitions in floor levels should not rely on external ramps and stairs in the public realm.



Strategy BF9: Residential frontages

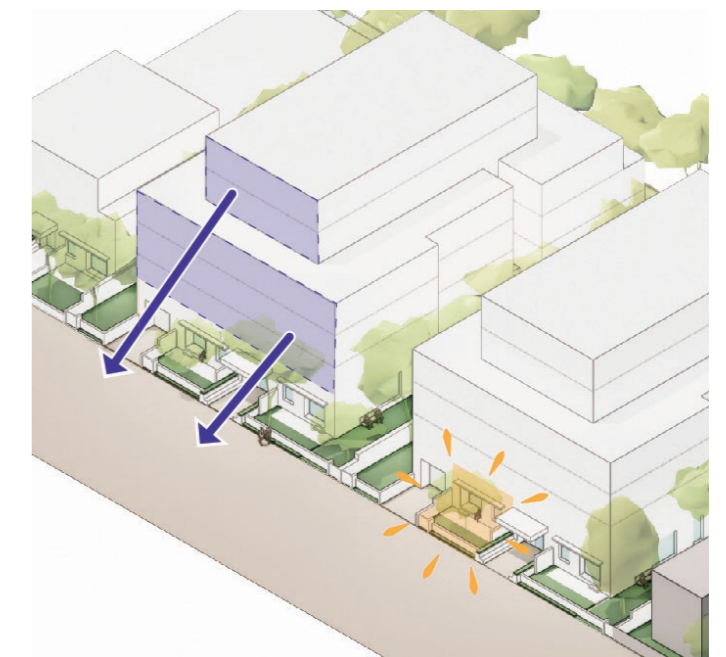
Ensure development within the Residential Neighbourhoods balances sense of address, passive surveillance and privacy, and contributes to street greening.

Residential frontages should enhance the street edge by:

- Orientating balconies and habitable rooms to the street
- Ensuring building facades identify individual dwellings
- Providing low front fences
- Providing ground floor entrances to individual ground floor dwellings facing the street
- Providing canopy trees and understorey planting to green the street and enhance privacy of ground floor dwellings.

Residential frontages should enhance pedestrian links by:

- Orientating balconies and habitable rooms to pedestrian links
- Providing ground floor entrances to individual ground floor dwellings facing the link where appropriate.



Design Direction 8: Ensure high quality and responsive built form

Why is this important?

Building orientation, solar access and setbacks

Built form can strongly influence internal amenity and the amenity of neighbouring properties. The siting, height and massing of buildings can adversely affect amenity in terms of:

- Access to sunlight
- Access to daylight
- Visual bulk
- Overlooking.

In residential areas, setbacks are typically required from common boundaries with adjoining properties to avoid unreasonable impacts on their amenity and future development potential. Clause 55 (ResCode) provides setback standards for buildings up to 4 storeys high.

In higher-density areas, apartments facing side or rear boundaries often have relatively poor internal amenity due to the need for privacy screen and limited access to daylight. Mid-rise buildings can also have a significant effect on the amenity of neighbouring properties in terms of sunlight, daylight and outlook, and on their future development potential.

Clause 58 provide internal amenity standards, however it doesn't provide prescriptive setback guidance.

Therefore, strategies are needed to ensure good internal amenity for development and its neighbours.

Scale transition

Increased building heights can create inappropriate visual bulk at interfaces with lower-rise areas, either inside or outside the Structure Plan Area. Care is needed to manage these transitions.

Increasing tree canopy cover

Landscaping associated with new development can contribute to environmental performance, amenity, health and character outcomes. In particular:

- Increased tree canopy cover can reduce the urban heat island effect
- Landscaping can provide wildlife habitat and stormwater infiltration
- Trees can provide building shading and resident amenity
- Nature supports mental health
- Trees can complement the existing character of leafy areas and help to integrate new, denser development.

Realisation of these objectives will rely on forms of development that contribute to tree canopy cover, not only trees in the public realm.

Clause 58 contains requirements for deep soil planting. However, this is not sufficient to achieve the tree canopy cover target, nor does it apply to non-residential development.

What is happening now in Cheltenham?

Within the Structure Plan Area, low-rise areas provide dwellings with a high internal amenity and good tree canopy cover.

Mid-rise developments north of Sir William Fry Reserve and on Hightt Road provide apartment living with varied levels of amenity and quality of outlook.

Alignment with SRL Urban Design Framework:

Design Direction 8 will help to achieve the following SRL Urban Design Objectives:

- Objective UD1.1 Legacy
- Objective UD1.2 Future ready
- Objective UD1.3 Resilient
- Objective UD1.4 Environmentally sustainable
- Objective UD5.2 Responsive
- Objective UD5.3 Sensitive
- Objective UD5.5 Quality design.

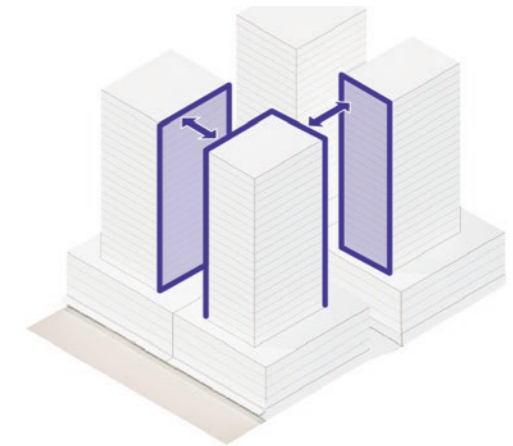
How can this direction be achieved in Cheltenham?

Strategy BF10: Tower separation B

Ensure reasonable internal amenity and equitable development opportunities through side and rear tower setbacks.

Maintaining good internal amenity in towers requires consideration of access to daylight, outlook and overlooking. Ensuring appropriate upper level setbacks will help to achieve good internal amenity whilst maintaining equitable development opportunities for neighbouring lots.

Towers should be separated to avoid the need for privacy screening, and to ensure reasonable visual amenity and daylight. This separation should increase with the height of the towers.



Strategy BF11: Building orientation

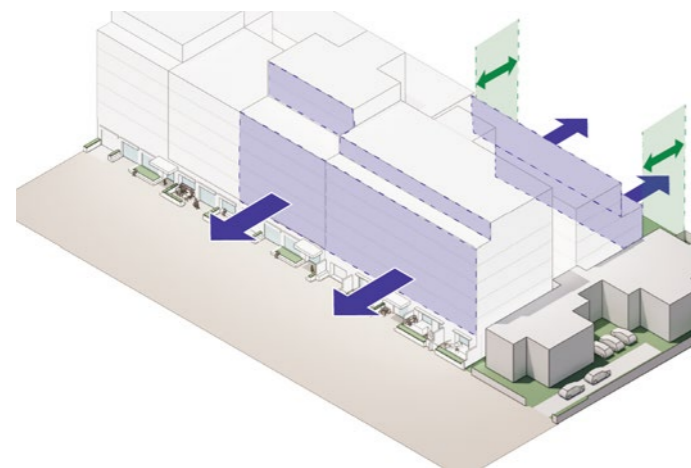
Encourage development to face the street and the rear of the property, and require generous rear setbacks.

In order to maximise internal amenity including access to daylight, outlook and privacy, habitable rooms (living, kitchen, dining, primary bedroom) should be orientated to the street or rear, and incorporate generous rear setbacks.

This helps to optimise development, as a wall without a window or balcony can be built to the side boundaries.

Additionally, to maximise internal amenity and maintain equitable development, the primary outlook of a dwelling should be adequately setback from the side boundary. A primary outlook is defined as a balcony or habitable room window.

Where lower rise residential building typologies are envisaged, buildings should be designed to provide appropriate space between dwellings in order to maximise internal amenity whilst providing for density within a landscaped setting. However, apartments and townhouses should still maximise primary orientation towards the street and rear boundary.



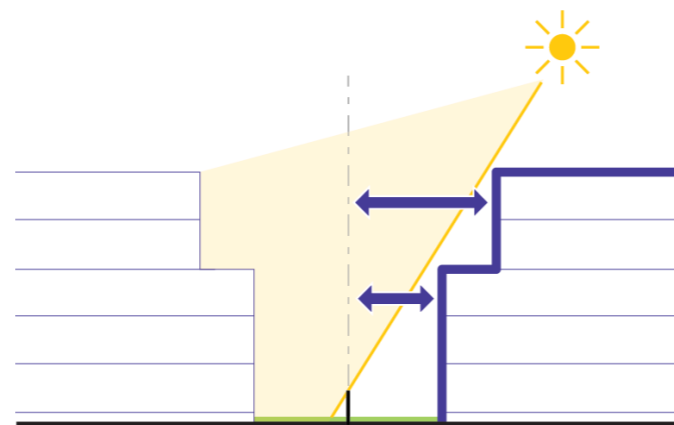
Strategy BF12: Rear amenity plane

Require rear setbacks to maintain good amenity in neighbouring properties.

Upper level setbacks should be established which ensure the appropriate protection of sunlight and daylight access and limit visual bulk to neighbouring properties.

The number of hours on the September equinox during which solar access to private open space should be maintained, should be consistent with ResCode where the affected property is outside the Structure Plan Area (5 hours), gradually reducing as development increases in density towards the centre, to reflect the different balance between intensification and environmental amenity.

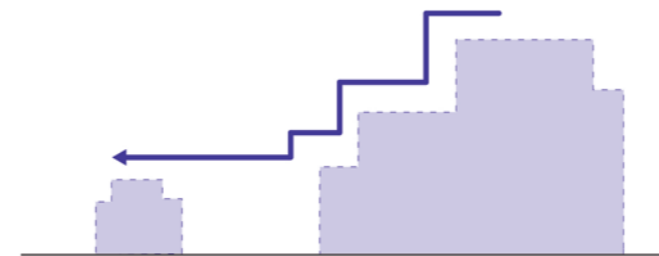
In contrast, upper levels should only be required to be set back from side boundaries in Residential Neighbourhoods sufficiently to maintain reasonable daylight, and solar access to neighbouring ground floor dwellings or recessed terraces at the desired side setback in Garden Apartment buildings. This reflects the proposed urban morphology in which primary open spaces are generally sited at the rear of lots, rather than to the side, to enable efficient development of single lots.



Strategy BF13: Transition

Transition building heights at the interface between taller and lower built form areas.

Buildings heights should step down from a higher area to a lower area to manage amenity impacts.

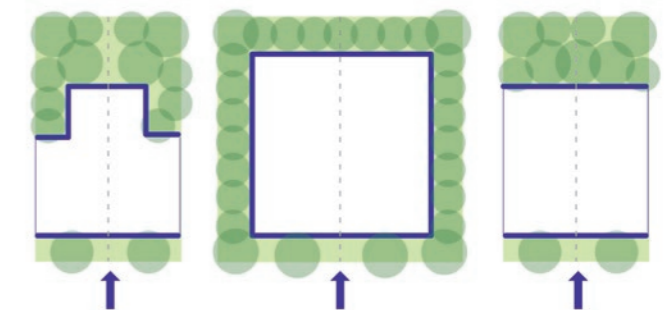


Strategy BF14: On-site landscaping

Encourage landscaping and canopy trees as part of new development, outside the Central Core.

Landscaping and canopy trees should be encouraged across all non-core areas, to enhance canopy cover, buffer built form transitions and contribute to outlook from dwellings.

However, the provision of on-site open space for trees is in competition with the aspiration for intensification, particularly given the preference for mid-rise development types. Therefore, the greatest opportunity for tree canopy cover is in the outer areas of the Structure Plan Area, where there is less aspiration for intensification.



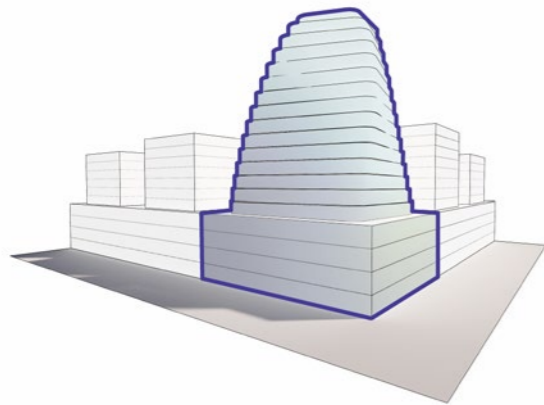
Strategy BF15: Landmark buildings

Encourage taller buildings to mark key locations in the urban structure.

Landmarks are natural or built elements that stand out from their surroundings. They contribute to the legibility of an area by creating memorable incidents on a journey through it.

Built landmarks can be formed by a particularly notable use, such as a library, a distinctive design, or greater height than their surroundings.

In order to reinforce the legibility of the precinct, landmark buildings should be encouraged at key points in the urban structure, such as station entries, major intersections and gateways or entries to key places. In the absence of a notable use, landmarks can be created by greater height and lesser setbacks than those of the surrounding buildings. However, greater height should be complemented by a higher level of design excellence.



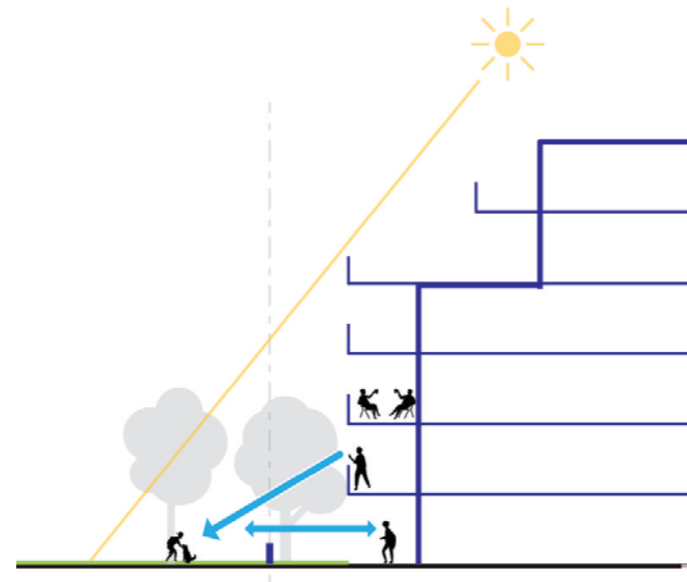
Strategy BF16: Public open space interface

Ensure buildings with an interface to public open space provide passive surveillance and a well-designed building profile.

Building facades facing public open space, including those abutting a public open space on a rear or side boundary, should balance privacy and activation through a generous, landscaped setback combined with windows and balconies.

These interfaces should be designed to maximise passive surveillance on the open space without privatising it and avoid unreasonable overshadowing of the open space. This includes orienting ground-floor active uses, communal spaces, habitable rooms and balconies towards the open space, ensuring fence design and height retain visual links to the open space, and providing a gate to access the open space.

Building facades facing open space are highly visible from the public realm. Therefore, it is important that they have visual appeal and a legible composition. For example, by avoiding multiple setbacks of the upper levels (e.g. a 'wedding cake' effect) and avoiding visible blank exposed walls.











5.3 Built Form Framework

Preferred building heights










This plan illustrates the distribution of heights and street wall heights across the Structure Plan Area.

These heights were developed by applying the preferred forms of development to each urban form area and considering specific interface conditions. They are explained in Section 6.


Legend

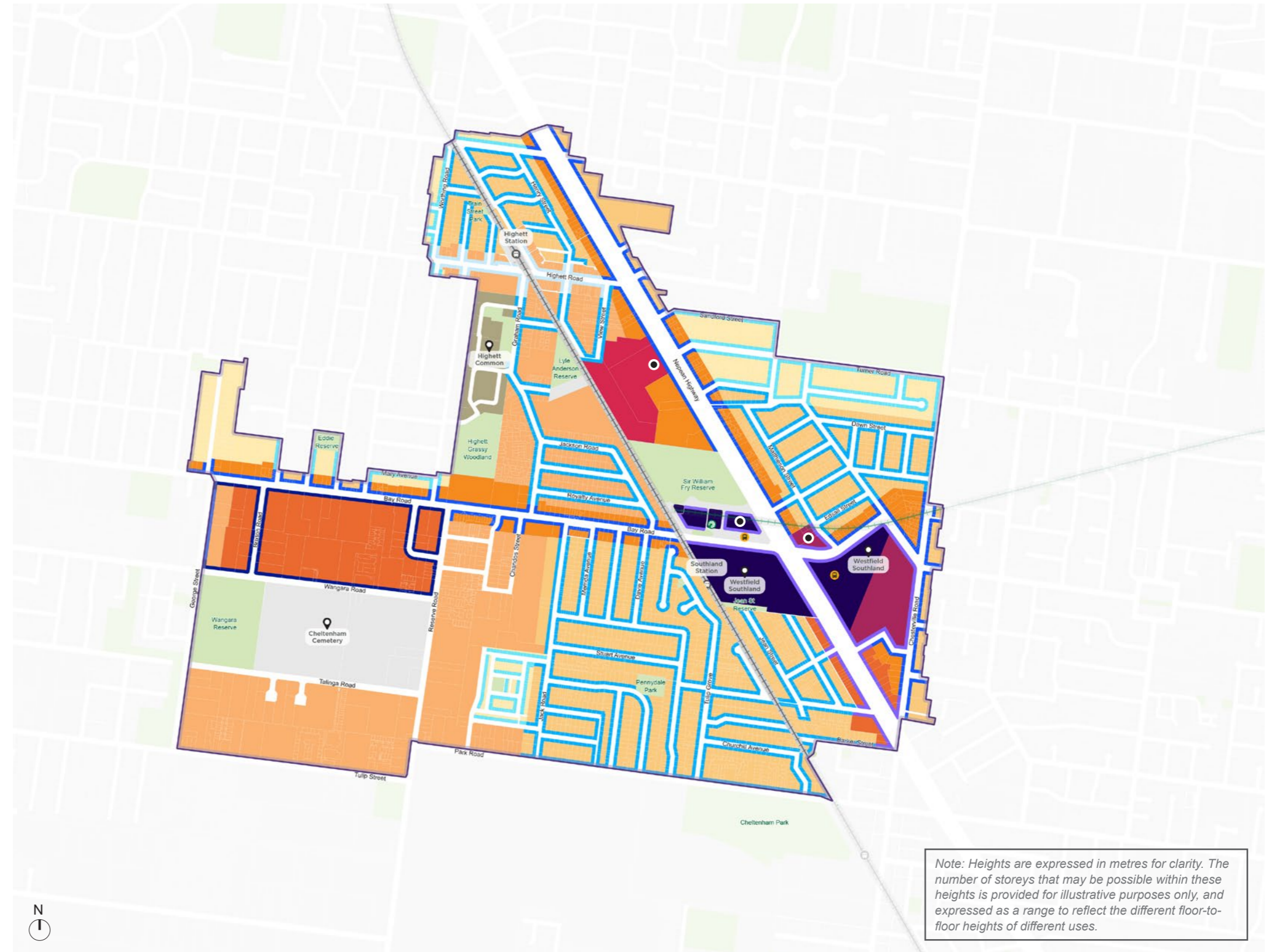
-  SRL station
-  Existing train station
-  Bus interchange
-  SRL East alignment
-  Existing rail line
-  Open space - existing and planned/proposed
-  Recently approved development plan
-  Landmark buildings, which may exceed the maximum height by 20 per cent, subject to compliance with Moorabbin Airport aviation height limits, and have lesser or no tower street setbacks, provided wind effects are managed and they achieve design excellence as supported by independent design review or a design competition that endorses the proposed design (see Strategy BF15).

Preferred maximum building heights

-  60 metres (17 storeys)
-  50 metres (14 storeys)
-  43 metres (12 storeys)
-  36 metres (10 storeys)
-  33 metres (8 storeys)
-  27 metres (7 to 8 storeys)
-  24 to 25 metres (6 to 7 storeys)
-  21 metres (6 storeys)
-  14 to 15 metres (4 storeys)

Preferred maximum street wall heights

-  24 metres (6 storeys)
-  21 metres (5 to 6 storeys)
-  17 metres (4 storeys)
-  14 metres (4 storeys)
-  11 to 12 metres (2 to 3 storeys)
-  9 metres (2 storeys)









Note: Heights are expressed in metres for clarity. The number of storeys that may be possible within these heights is provided for illustrative purposes only, and expressed as a range to reflect the different floor-to-floor heights of different uses.

Figure 5.02: Preferred heights






Preferred street frontage types and setbacks

This plan illustrates the distribution of street frontages and setbacks throughout the Structure Plan Area.




Legend

-  SRL station
-  Existing train station
-  Bus interchange
-  SRL East alignment
-  Existing rail line
-  Open space - existing and planned/proposed



Front setbacks

-  Zero setback
-  Match the prevailing building line
-  3 metres setback
-  4 metres setback
-  6 metres setback

Interfaces

-  Highly active frontages
-  Moderately active frontages
-  Indicative link interface

Key links

-  Key links - fixed
-  Key links - flexible

Note: Where a building abuts an open space, additional setback controls apply. See Section 6 for further information.

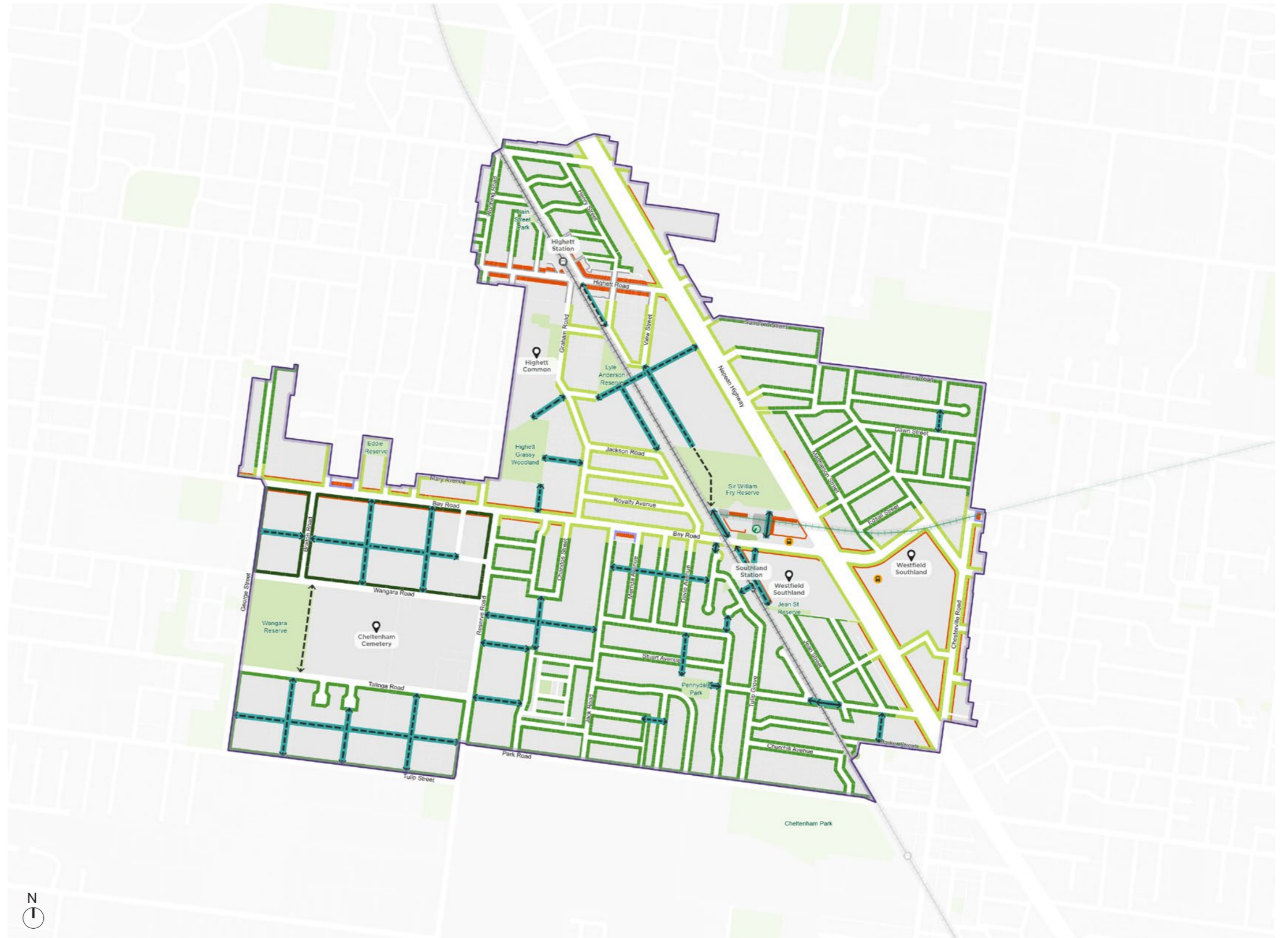


Figure 5.03: Preferred street frontages and setbacks

Preferred side, rear and front upper-level setbacks

This plan illustrates the proposed side, rear and upper-level setbacks throughout the Structure Plan Area.

These have been developed by applying the preferred forms of development and Built Form strategies to each urban form area. They are explained in Section 6.

In addition to the setbacks summarised below, overshadowing provisions are proposed to protect solar access to neighbouring properties. These are outlined in Section 6.

Setbacks	
Side and rear - podium	0 or 4.5 metres (primary outlook)
Side and rear - tower	<ul style="list-style-type: none"> 4.5 metres for towers up to a height of 27 metres 6 metres for towers up to a height of 41 metres 7.5 metres for towers up to a height of 66 metres 10 metres for towers higher than 66 metres
Front upper-level	5 metres from the podium facade
Side - podium	0 metres or 4.5 metres (primary outlook)
Side - tower	<ul style="list-style-type: none"> 4.5 metres for towers up to a height of 27 metres 6 metres for towers up to a height of 41 metres 7.5 metres for towers higher than 41 metres 6 metres, landscaped
Rear- podium and tower	6 metres + 0.6 metres per metre of height above 17 metres at interface with Key Movement Corridor or Residential Neighbourhood
Front upper-level	3 metres + 0.6 metres per metre of height above 33 metres from the podium facade
Side	0 metres
Rear - abutting Urban Neighbourhoods or Strategic Sites	4.5 metres above ground floor
Rear - abutting Residential Neighbourhoods	0.7 metres per metre above a height of 5 metres up to a maximum of 15 metres
Rear - abutting residential land outside the Structure Plan Area	1 metre per metre of height above 5 metres, up to a maximum setback of 15 metres
Front upper-level	5 metres + 1 metre per metre of height above 21 metres from the podium facade
Side	0 metres or 4.5 metres (primary outlook) ^{(1) (2)}
Rear	6 metres + 0.7 metres per metre of height above 11 metres ⁽²⁾
Front upper-level	4 metres from the podium facade
Side	0 metres or 4.5 metres (primary outlook) ⁽¹⁾
Rear	6 metres + 0.7 metres per metre of height above 11 metres
Front upper-level	Remain below a 45° plane from opposite street boundary
Side and rear	1 metre for every metre above ground floor where abutting a property where dwellings are permissible
Front upper-level	4 metres from the podium facade
Side - lots ≥ 24 metres wide	4.5 metres + 0.8 metres per metre of height above 14 metres
Side - lots < 24 metres wide, front half of site	0 metres for buildings up to a height of 6.9 metres 2 metres for buildings higher than 6.9 metres
Side - lots < 24 metres wide, rear half of site	2 metres + 1 metre per metre of height above 6.9 metres
Rear	6 metres + 0.7 metres per metre of height above 11 metres
Front upper-level	0.5 metres per metre
Strategic Sites - require bespoke planning controls to provide direction on their future development.	
Side and Rear setbacks	6 metres
Side and Rear - lots < 35 metres	0
Front upper-level	6 metres from the podium facade

- 4.5 metres applies to the parts of the building that provide a primary outlook to the rear and side boundaries. If interfacing with side/rear service lanes, the setback is measured from the centre of the laneway.
- Setback standard does not apply to existing small retail strips in this area - refer to Section 6 for existing small retail strips setbacks.
- Where a building abuts an open space, additional setback controls apply. See Section 6 for further information.

Legend

- SRL station at Cheltenham
- Existing train station
- Bus interchange
- Structure Plan Area
- SRL East alignment
- Frankston rail line
- Public open space - existing/ planned/proposed
- Recently approved development plan



Figure 5.04: Preferred side, rear and front upper-level setbacks



6 Outcomes

- 6.1 Introduction
- 6.2 Central Core
- 6.3 Central Flanks
- 6.4 Main Streets
- 6.5 Key Movement Corridors
- 6.6 Urban Neighbourhoods
- 6.7 Residential Neighbourhoods
- 6.8 Employment Growth
- 6.9 Enterprise Neighbourhoods
- 6.10 Strategic Sites
- 6.11 Urban development typology testing
- 6.12 Place type interfaces

6.1 Introduction

This Section presents the specific Urban Form and public realm initiatives proposed to achieve the Cheltenham Vision. It is largely organised by place type, followed by a summary of the urban development typology testing method, and an examination of each Place interface.

The initiatives in this Section are informed by the analysis in the Appendices, and the Urban Development and Public Realm Typologies in SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

Place types

Place types have been derived by grouping urban form areas into nine categories, as described in Section 4 and illustrated in Figure 6.01.

Preferred forms of development have been identified for each place type, based on the Urban Form strategies. The place types are illustrated here and explored further in Sections 6.2 to 6.10.

For each place type, this Section presents:

- A statement outlining the future character of the place type based on existing conditions and key drivers
- A summary of the built form and public realm outcomes required to deliver the future character
- Cross sections combining the typical building and public realm profile
- To achieve the desired public realm outcome, cross-sections of specific places particularly where there is a variation to the standard development type is proposed.

Legend

- SRL station
- Existing train station
- Structure Plan Area
- SRL East alignment
- Civic areas - State or local government or institutional land not envisaged for substantial change
- Recently approved development plan

Place types

- Central Core
- Central Flanks
- Main Streets
- Key Movement Corridors
- Urban Neighbourhoods
- Residential Neighbourhoods
- Employment Growth
- Enterprise Neighbourhood
- Strategic Site
- Sensitive, constrained or isolated areas
- Strategic Site - Station development area

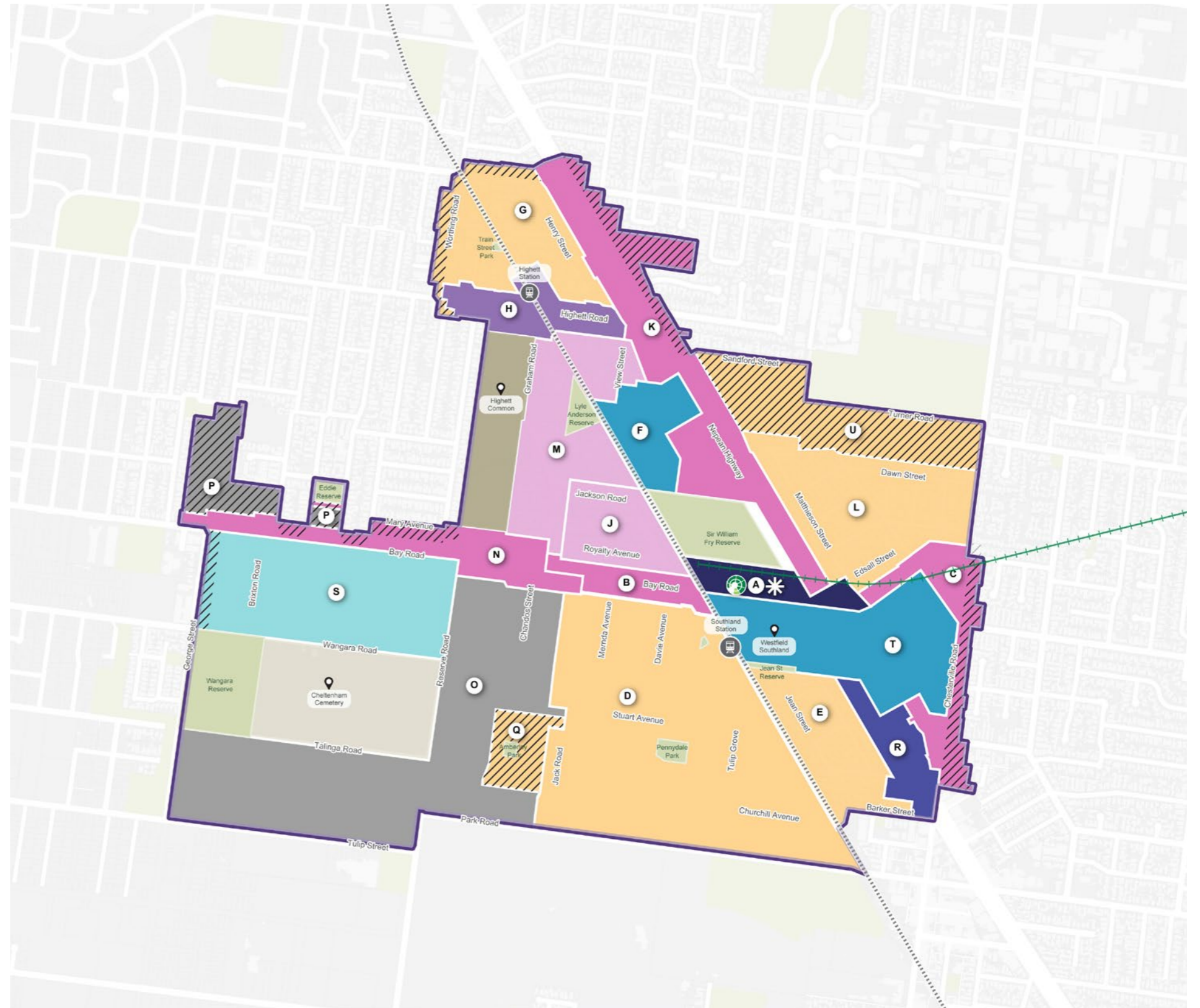
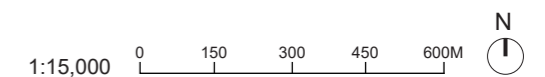


Figure 6.1: Place types



6.2 Central Core

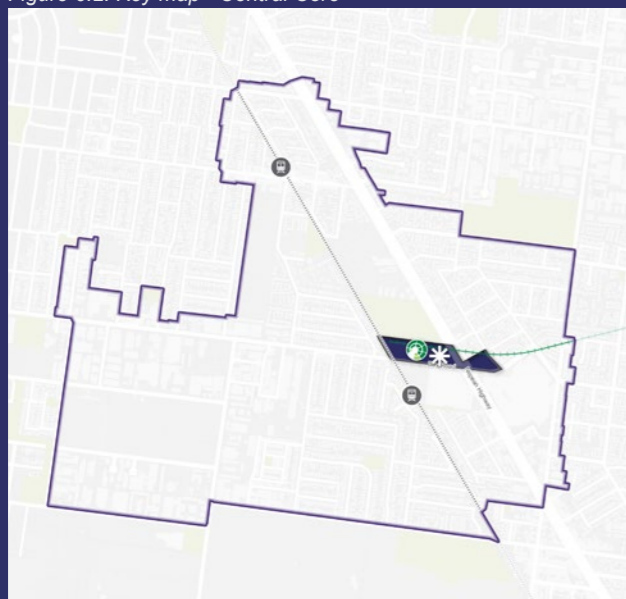
The core of the Structure Plan Area

The urban form area identified as belonging to this place type is:

- A - Core Area

Refer to Section 4.5 for a detailed description of this urban form area.

Figure 6.2: Key map - Central Core



Future role and function

Substantial change of built form, delivering Mixed-use neighbourhoods which provide space for jobs growth and local services

The Central Core will provide the greatest accessibility to jobs and services from the SRL catchment. Therefore, it is where the level of intensification and provision of jobs and services should be highest.

Future drivers

High level of activation to the street

The Central Core is where the highest level of pedestrian activity will occur as a result of its intensity of development and people accessing public transport, jobs and services. This includes activity in the evening and weekends. Therefore, it is critical that a high level of activation is provided to ensure safety, consistent with the SRL Urban Design Objectives *Activation* and *Safer design*.

Maintain solar amenity to key public spaces

Solar access remains important in the Central Core. However, the desire for intensification means that solar access is only prioritised in the key public spaces.

Capitalise on amenity provided by open space

This urban form area lies adjacent to Sir William Fry Reserve. The amenity provided by this space should be capitalised upon by optimising the number of dwellings adjacent to it and providing improved access for the neighbourhood beyond.

Future urban form

The Central Core will provide a permeable public realm connecting people to the SRL and existing Southland Station entries, Southland Shopping Centre, Sir William Fry Reserve and beyond.

A new cycling route along the Frankston rail line (Important Key Link) and new pedestrian links will allow people to move north-south between Bay Road and Sir William Fry Reserve. Bay Road will be a vibrant and attractive street that better services pedestrians and cyclists. Adjacent to Sir William Fry Reserve a new east-west Activity Street is proposed to connect to the new Enright Street crossing at Nepean Highway.

New public space around the SRL station at Cheltenham and a central pedestrian spine will connect both public transport users and the broader public through the Central Core to Sir William Fry Reserve which will be the green heart of the Structure Plan Area.

The Central Core will provide retail activity and high-density employment and housing in the form of high-rise buildings. These buildings will maintain an activated and continuous street wall. Towers will be set back above the street wall to ensure good amenity in the public realm and neighbouring buildings.

Figure 6.3: Examples of the form of development envisaged for the Central Core



Built form outcomes

The development type recommended in the Central Core is the podium-tower. Mid-rise to high-rise towers can deliver the significant level of intensification envisaged for the Central Core. The podium-tower format provides for a street-edge scale that facilitates good public realm amenity in terms of human scale, sky views, sun and wind conditions, and complements the existing character. Best practice podium-tower design includes active street facades with any above-ground car parking 'sleeved' behind other uses, and well set back and separated towers.

A mix of uses is necessary to deliver the desired vibrancy and activation. The podium-tower format enables a range of retail types in the podium and office and/or residential uses above.

Tower height is limited by the Moorabbin Airport PANS-OPS protection area.

Building height and density

- The maximum building height has been determined based on:
- Aviation airspace regulations
- The importance of the Central Core in terms of its envisaged provision of jobs and retail floorspace, which should be expressed by building scale
- The number of rail lines serving the Central Core area, which is an indicator of its public transport accessibility and consequent suitability for growth
- Proximity to sensitive interfaces, such as Urban or Residential Neighbourhoods which should temper heights
- The width of abutting roads, which influence the capacity of the public realm to accommodate height without unreasonable amenity impacts.

Street wall height

A minimum street wall height of 12 metres (3 storeys) is proposed to ensure the public realm is well framed. A maximum street wall height of 17 metres (4 storeys) to maintain a reasonable level of openness and solar access in the public realm in accordance with Strategy BF2: Podiums.

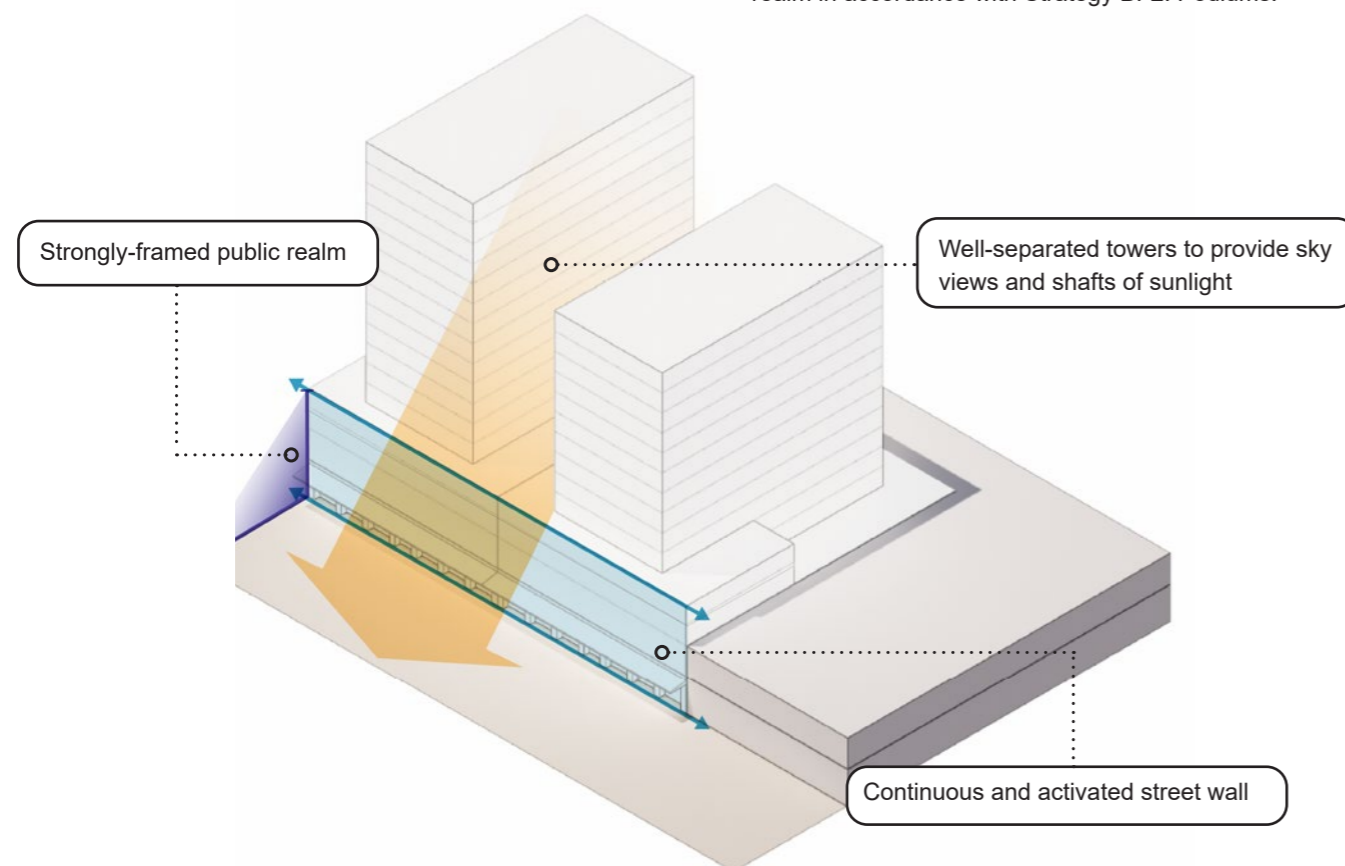


Figure 6.4: Built form outcomes for podium-towers

Building setbacks

The following minimum setbacks are proposed:

Podium

- A zero street setback at podium level, to frame the public realm and support public realm activation, in accordance with strategies BF2: Podiums and BF7: Engaging facades
- A 3-metre front setback is proposed for properties east of Nepean Highway to create a more generous pedestrian environment and to provide for canopy trees. Refer to figure 5.03 Preferred street frontages and setbacks plan
- Side and rear setbacks of zero where there is no primary outlook
- Side and rear setbacks of 4.5 metres where there is a primary outlook. Wherever applicable, side and rear setbacks should be measured from the centreline of an adjoining laneway.

Tower

- Front setbacks above the podium of:
- 5 metres
- Front tower setbacks are designed to distinguish towers from the street wall, maintain a sense of openness and manage wind effects, in accordance with Strategy BF2: Podiums and BF3: Weather protection. This may be relaxed on Nepean Highway given its broad width, provided the towers are distinguished and wind effects managed in some other way. It may also be relaxed on the intersection of two major streets to express the urban structure, provided wind effects are managed
- Side and rear setbacks of:
 - 4.5 metres for towers up to a height of 27 metres
 - 6 metres for towers up to a height of 41 metres
 - 7.5 metres for towers up to a height of 60 metres
- Side and rear setbacks are designed to maintain a sense of openness and sky views, allow solar access to the public realm, ensure reasonable amenity for tower occupants and to maintain equitable development opportunities for neighbouring properties, in accordance with strategies BF1: Tower separation A and BF2: Podiums
- For all floor levels above the height of the street wall where the building exceeds a height of 41 metres, a maximum tower floorplate of 900 square metres for residential uses and 1,350 square metres for office uses.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres for towers up to a height of 27 metres
- 12 metres for towers up to a height of 41 metres
- 15 metres for towers up to a height of 66 metres.

Overshadowing

Sir William Fry Reserve will continue to be the primary open space and focal point for community activity. This open space will be supported by the new high-amenity pedestrian spine through the Central Core. As primary gathering spaces for the Structure Plan Area, these spaces warrant the highest level of solar access protection, in accordance with Strategy BF5. Sunlight to public realm. The building scale and massing recommended at the edges Sir William Fry Reserve will maintain 70 per cent solar access to these spaces for a minimum of 3 hours at mid-winter.

The space to the south of the SRL station at Cheltenham entrance will be partly shadowed at the September equinox and almost fully shadowed at winter solstice. Therefore, no solar access standard is recommended for these spaces.

Activity Streets are intended to support the highest level of street life. However, they are also where development is most intense, in response to the accessibility created by the SRL station. Given the Activity Street in Central Core is located to the south of Sir William Fry Reserve, 100 per cent solar access to the street will be achieved.

Summary of built form outcomes

The built form outcomes for the podium-tower development type are summarised below.

Building height and density	
Maximum height	50 to 60 metres (14 to 17 storeys)
Maximum density	6.5 to 7.5:1
Street Wall	
Minimum Height	12 metres (3 storeys)
Maximum height	17 metres (4 storeys)
Activation	Moderate to High
Building setbacks	
Minimum street - podium	0 metres
Minimum street - East of Nepean Highway	3m, landscaped
Minimum street - tower	5 metres
Minimum side and rear - podium (non-primary outlook)	0 metres
Minimum side and rear - podium (primary outlook)	4.5 metres
Minimum side and rear - tower	4.5 metres for towers up to a height of 27 metres 6 metres for towers up to a height of 41 metres 7.5 metres for towers up to a height of 60 metres
Maximum tower floor-plate area	
All floor levels above the height of the street wall where the building exceeds a height of 41 metres	- 900 square metres for residential uses - 1,350 square metres for office uses
Building separation	
Towers up to a height of 27 metres	9 metres
Towers up to a height of 41 metres	12 metres
Towers up to a height of 66 metres	15 metres

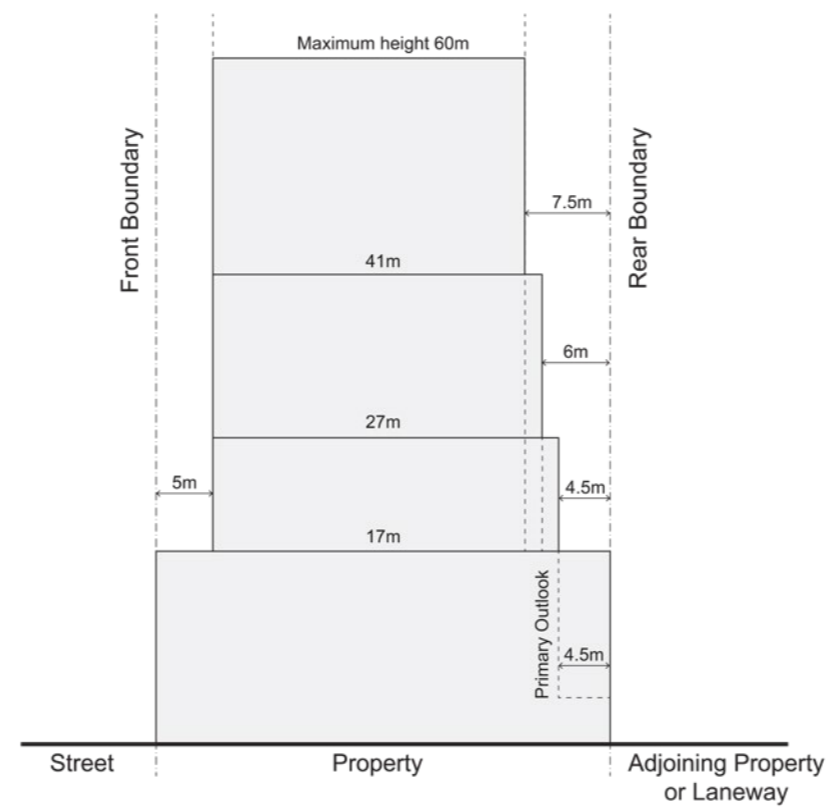


Figure 6.5: Built form outcomes section - front to rear

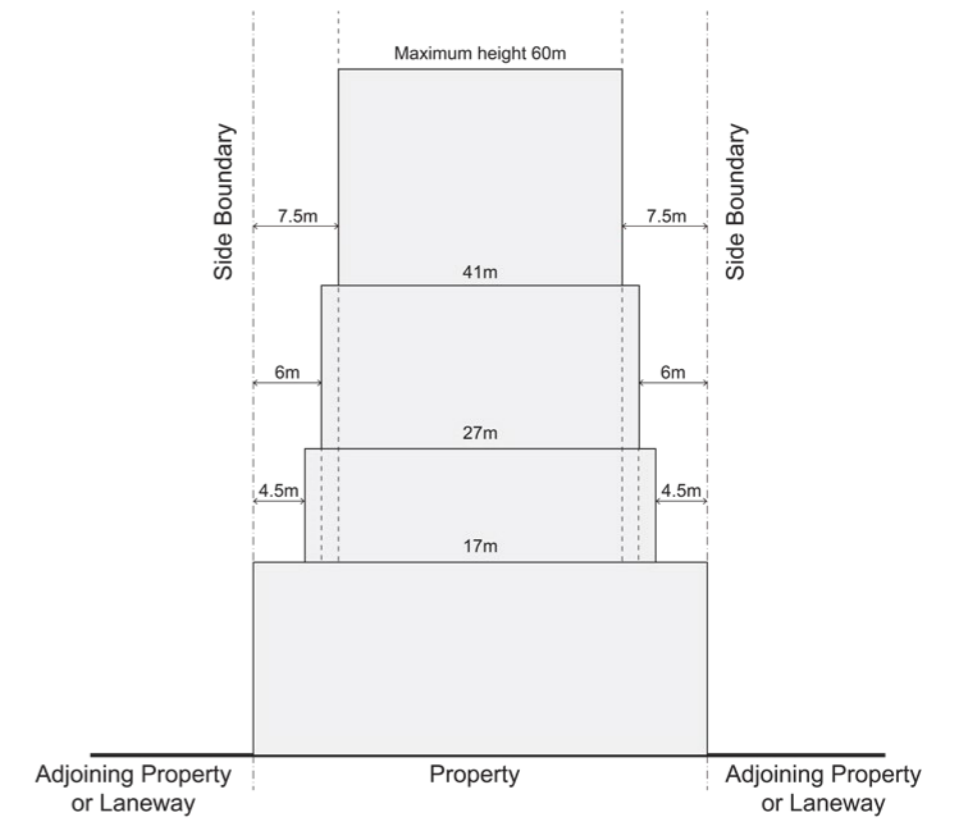


Figure 6.6: Built form outcomes section - side to side

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Central Core. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.


SRL Rail and Infrastructure

Public realm elements within the SRL Rail and Infrastructure Works.

-  Transformation of part of Nepean Highway - Boulevard
-  Activity Street - New
-  Bay Road upgrades - Avenue
-  Critical key link
-  Open space (new) - SRL Rail and Infrastructure Project
-  New major active transport link (pedestrian and cycling bridge)
-  Pedestrian crossings (new or upgraded)

Development

Development features key to creating an accessible and permeable Central Core, as part of Design Direction 2: Promote active transport access.

-  Important key link (improved widened) - fixed/flexible

Public realm enhancements

Enhancements to deliver:

Design Direction 1: Ensure streets are inviting places that support community life.








-  Karen Street and Tennyson Street (part) upgrades - Avenue
-  Streetscape improvements- Green Street



Figure 6.7: Public realm outcomes - Central Core

- Legend**
-  SRL station
 -  Existing Southland Station
 -  Structure Plan Area
 -  SRL East alignment
 -  Urban form area boundary

Built form and public realm profile

This cross-section shows typical podium-tower buildings interfacing with Bay Road to provide an illustration of the potential future built form interface with the public realm.



Figure 6.8: Potential section - Central Core - Bay Road

6.3 Central Flanks

The remainder of the central areas beyond the Core

The urban form area identified as belonging to this place type is:

- R – Nepean Highway south

Refer to Section 4.5 for a detailed description of this urban form area.

Future role and function

Substantial change of built form providing space for jobs growth, local services and housing surrounding the Core.

This urban form area will provide a high level of accessibility to jobs and services within the Central Core, and the next highest level of accessibility to jobs from the SRL catchment after the Central Core. Therefore, it should provide for substantial growth of jobs and dwellings. As it lies adjacent to areas of lower intensity, it should also have a more moderated level of intensification than the Central Core.

Future drivers

High level of activation to the street

There will be a high level of pedestrian activity in this urban form area as a result of its intensity of development and people accessing public transport, jobs and services in the Central Core. This includes activity in the evening and weekends. Therefore, it is critical that a high level of activation is provided to ensure safety, consistent with SRL Urban Design Strategy objectives *Activation* and *Safer design*.

Maintain sunlight amenity to the public realm

The slightly less focus on intensification compared with the Central Core allows for a greater focus on ensuring sunlight in the majority of the public realm, consistent with the SRL Urban Design Strategy Objective of *Amenity*.

Future urban form

The Central Flanks urban form area is proposed to frame Nepean Highway south of Southland Shopping Centre. It supports the amenity and activation of Nepean Highway as a wide, generous primary road and public transport corridor that serves multiple uses and provides strong landscape and pedestrian outcomes, including canopy trees and pedestrian crossing opportunities. An upgraded pedestrian crossing across Nepean Highway improves east-west connectivity and enhances access to the SRL station at Cheltenham and the existing Southland Station.

This urban form area will provide high-density employment and housing in the form of mid-rise buildings. These buildings will respond to the emerging mid-rise urban development character, and maintain an activated and continuous street wall. Upper level built form will be setback from the street wall to protect sunlight access to the public realm and neighbouring properties. A 3-metre street setback at podium level will provide for higher amenity public realm by creating a wider footpath.

Figure 6.9: Key map - Central Flanks

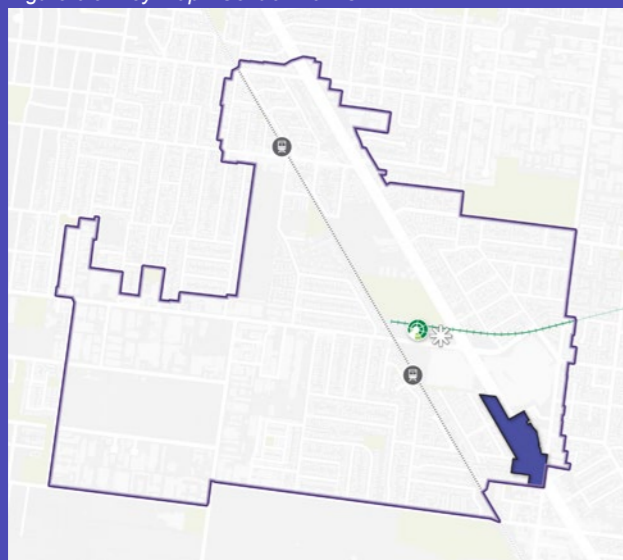


Figure 6.10: Examples of the form of development envisaged for the Central Flanks

Built form outcomes

This development type delivers high-density whilst maintaining good solar provision to the public realm. This type typically requires a large lot or lot amalgamation.

The zero front setback and lack of side setbacks at the base of the building ensure a highly-activated and strongly-framed public realm. The strong relationship with the street also supports commercial uses at ground and potentially upper levels to provide the desired vibrancy and activation. Best practice design provides for car parking in a basement or 'sleeved' behind other uses.

Behind the street wall, the base of the building is set back from the side and rear boundary to provide space for tree planting. This typology provides a 5 to 10 per cent deep soil area at the sides and rear of the lot.

Above the street wall, the upper levels are setback from all sides to maintain sunlight, sky views and a sense of openness in the public realm. These setbacks also maintain good internal amenity and equitable development opportunities on neighbouring properties.

Building height and density

Building heights are determined by the application of a September equinox solar plane to protect sunlight access to the footpath on the opposite side of the street, in accordance with Strategy BF5: Sunlight to public realm.

Based on testing of typical property sizes within this place type, it is envisaged that heights of 9 to 10 storeys and a density of approximately 4.5:1 can be achieved. Mid-rise podium-tower development in typical Central Flanks lots is illustrated in the SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

Street wall height

A minimum street wall height of 12 metres (3 storeys) is proposed to ensure the public realm is well framed, in accordance with BF2: Podiums. The maximum street wall height is proposed to be 17 metres (4 storeys), to balance spatial definition and a sense of openness, and to maintain solar access in the streets.

Building setbacks

The following minimum setbacks are proposed:

Podium

- A 3-metre front setback is proposed to create a more generous pedestrian environment and to provide for canopy trees. Refer to figure 5.03 Preferred street frontages and setbacks plan
- Zero side setbacks where there is no primary outlook
- A 4.5-metre side setback where there is a primary outlook. Wherever applicable, side setbacks should be measured from the centreline of an adjoining laneway
- A rear setback of 6 metres to provide for canopy trees, in accordance with Strategy BF14. On-site landscaping. It is envisaged these rear setbacks will combine to create a green spine along the rear of all lots in this place type, establishing valuable habitat and potentially communal amenity.

Tower

- A 3-metre setback from the podium facade, to distinguish towers from the street wall, maintain a sense of openness and manage wind effects, in accordance with strategies BF2. Podiums and BF3. Weather protection
- An additional front setback of 0.6 metres per metre of height above 33 metres, to maintain a sense of openness and solar access to the opposite footpath
- Side setbacks of:
 - 4.5 metres for towers up to a height of 27 metres
 - 6 metres for towers up to a height of 41 metres
 - 7.5 metres for towers higher than 41 metres
- Where adjacent to the rear boundary of land in a Key Movement Corridor or Residential Neighbourhood, a rear setback of 6 metres plus 0.6 metres per metre of height above 17 metres
- A rear setback of 6 metres, aligned with podium rear setback
- These setbacks may be measured from the centreline of an adjoining laneway. They are designed to ensure reasonable amenity for tower occupants and to maintain equitable development opportunities for neighbouring properties, in accordance with strategies BF1. Tower separation A and BF2. Podiums.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres for towers up to a height of 27 metres
- 12 metres for towers up to a height of 41 metres.

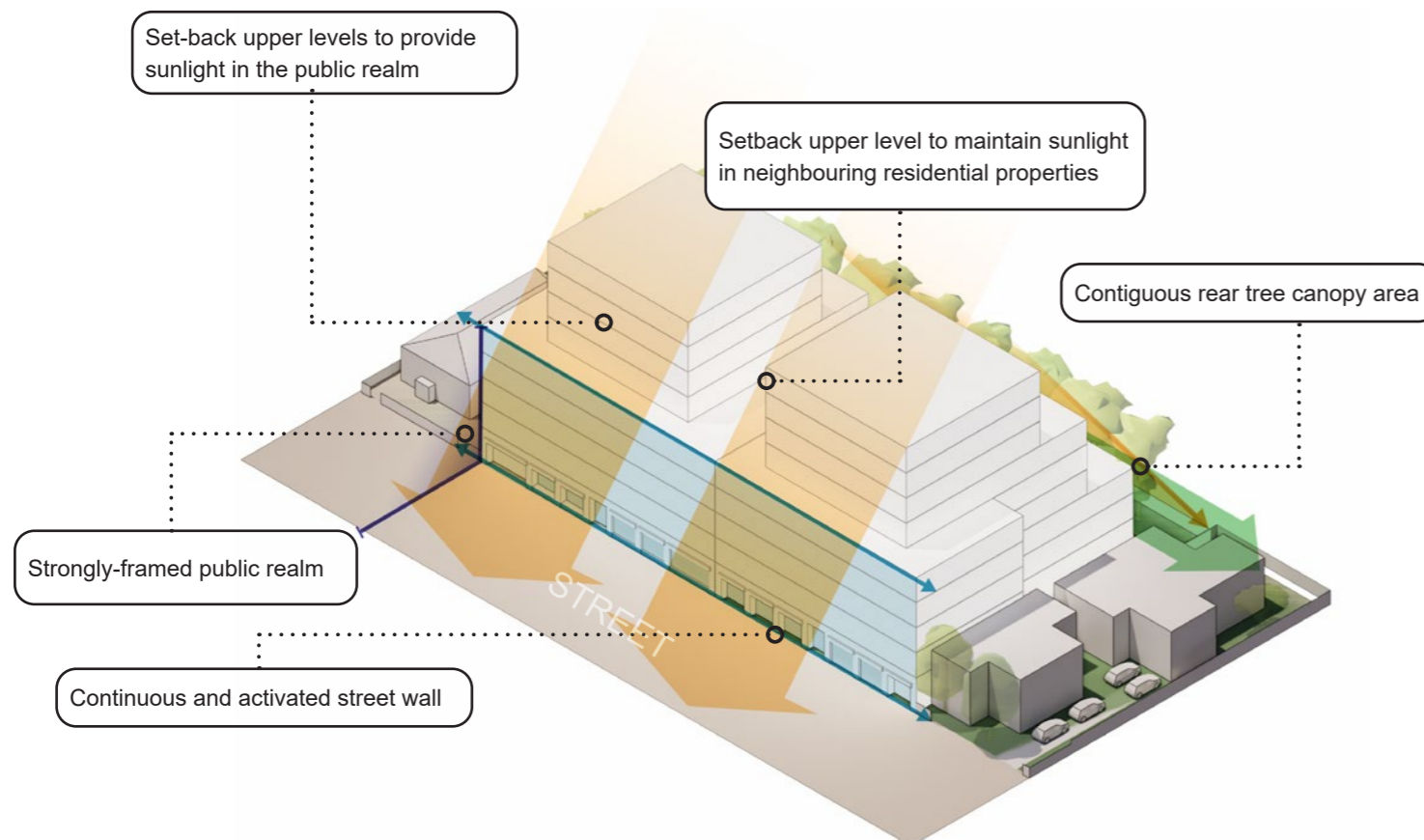


Figure 6.11: Built form outcomes for mid-rise podium-towers

Summary of built form outcomes

The Built Form Outcomes for the mid-rise podium-tower development type are summarised below.

Building height and density	
Maximum height	36 metres 9 to 10 storeys
Maximum density	4.5:1
Street Wall	
Minimum height	12 metres (3 storeys)
Maximum height	17 metres (4 storeys)
Activation	Moderate
Building setbacks	
Minimum street - podium	3 metres, landscaped
Minimum street - tower	6 metres +0.6 metres per metre of height above 33 metres
Minimum side - podium (non-primary outlook)	0 metres
Minimum side - podium (primary outlook)	4.5 metres
Minimum side – tower	4.5 metres for towers up to a height of 27 metres 6 metres for towers up to a height of 41 metres 7.5 metres for towers higher than 41 metres
Minimum Rear - podium and tower	6 metres, landscaped
Minimum rear - at interface with Key Movement Corridor or Residential Neighbourhood.	6 metres + 0.6 metres per metre of height above 17 metres
Building separation	
Towers up to a height of 27 metres	9 metres
Towers up to a height of 41 metres	12 metres

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Key Movement Corridors, Urban Neighbourhoods and Residential Neighbourhoods.

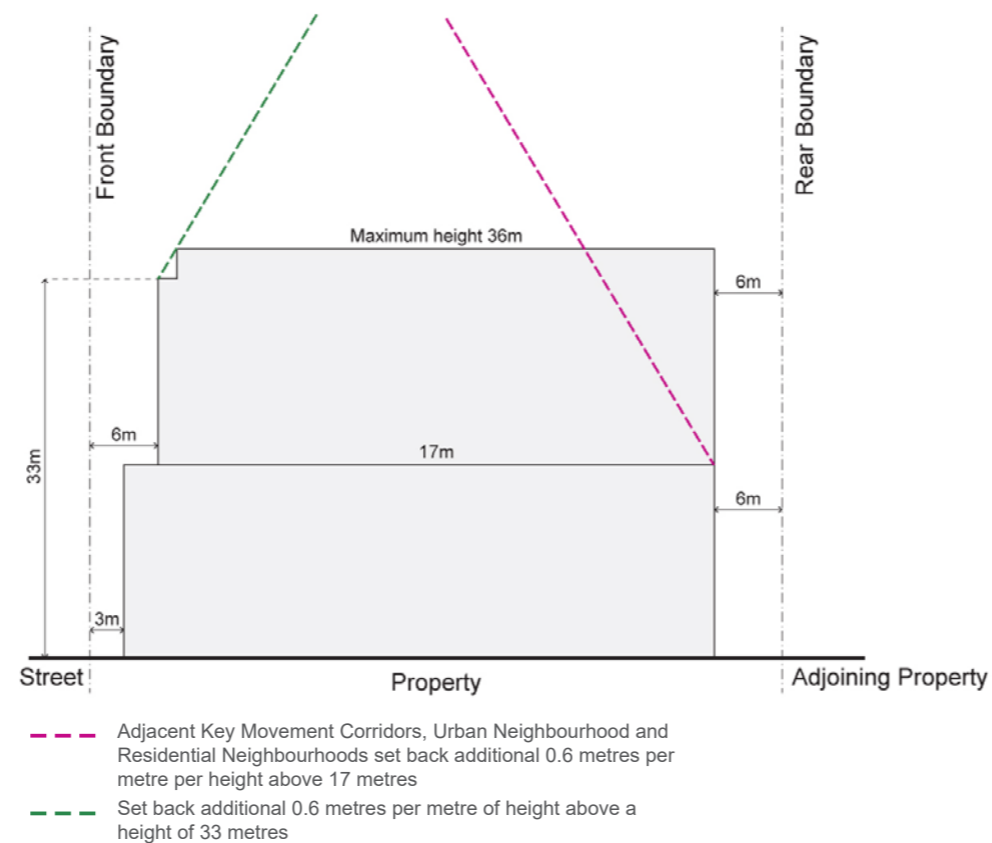


Figure 6.12: Built form outcomes section - front to rear

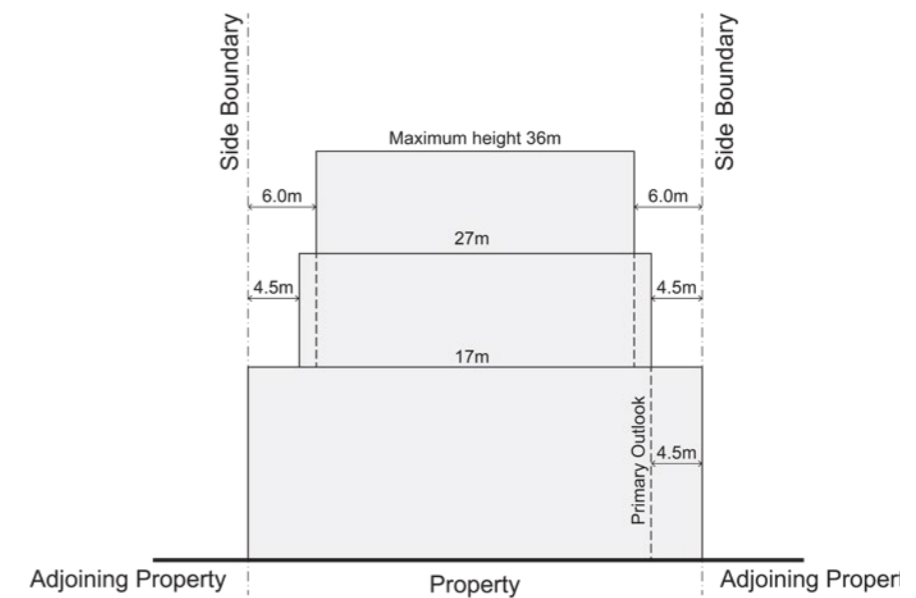


Figure 6.13: Built form outcomes section - side to side

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Central Flanks. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.

Public realm enhancements

Enhancements to deliver Design Direction 1: Ensure streets are inviting places that support community life:

- █ Nepean Highway upgrades (part) - Boulevard
- █ Chesterville Road upgrades - Avenue
- █ Streetscape improvements - Green Street

Key public realm projects

Key public realm interventions critical to creating an accessible and permeable Central Core, as part of Design Direction 2: Promote active transport access:

- ⊗ Pedestrian crossings (new or upgraded)

Development

Development features creating an accessible and permeable key movement corridors, as part of Design Direction 2: Promote active transport access:

- ⊗ Open space (new) - investigation area



Figure 6.14: Public realm outcomes - Central Flanks

Legend

- ⊗ SRL station
- ⊗ Existing Southland Station
- █ Structure Plan Area
- - - SRL East alignment
- Urban form area boundary

Typical building and public realm profile

This cross-section shows typical Central Flanks buildings facing Nepean Highway to provide an illustration of the future potential built form and public realm outcomes for this area.



Figure 6.15: Potential cross-section - Central Flanks

6.4 Main Streets

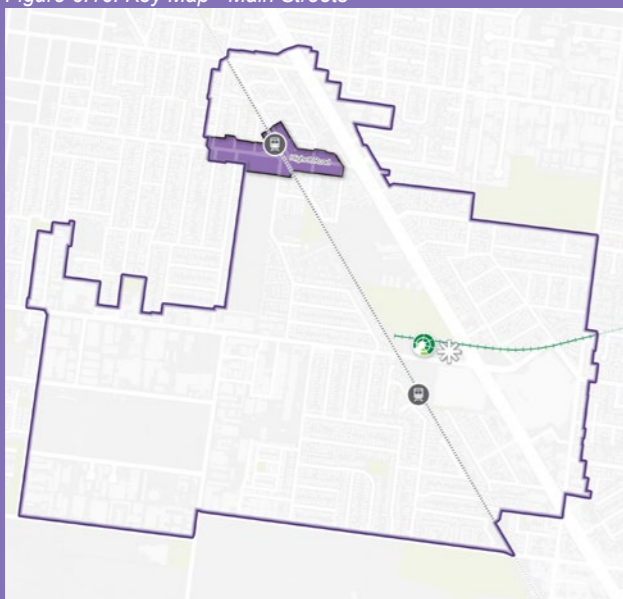
Existing main street shopping strips

The urban form area identified as belonging to this place type is:

- H – Highett Road.

Refer to Section 4.5 for a detailed description of this urban form area.

Figure 6.16: Key Map - Main Streets



Future role and function

Moderate intensification of built form providing space for more housing

This urban form area has a highly valued, low-rise character and fragmented ownership. Further, Highett Road is only 16 metres wide. These factors limit its development potential. While there may be sporadic opportunities for more significant redevelopment through amalgamation of many lots, the likelihood this would not occur uniformly within the urban form area means that allowing such development would result in an in-cohesive built form character. It would also likely adversely affect the fine-grain character. Further, the area has a high level of pedestrian activity, requiring a high level of public realm amenity, and lies adjacent to the lower-rise residential hinterland.

Future drivers

Respect the character of the shopping strip

This Urban Form Area is characterised by two contrasting characters to the east and west of Highett Road. To the east of the Frankston Rail Line lots are narrow resulting in a distinct character of small, low-rise shops. To the west some of the block sizes are larger with higher density-built form, particularly towards the southwest.

Future development should present a consistent street wall scale and quality along Highett Road, and complement the existing fine-grain character to the east through massing and facade design.

Maintain sunlight amenity to the public realm

There is a high level of pedestrian activity in this area as a result of its retail uses, including outdoor dining. It is important that sunlight is maintained to southern, eastern and western footpaths, consistent with the SRL Urban Design Objectives *Activation* and *Places for people*.

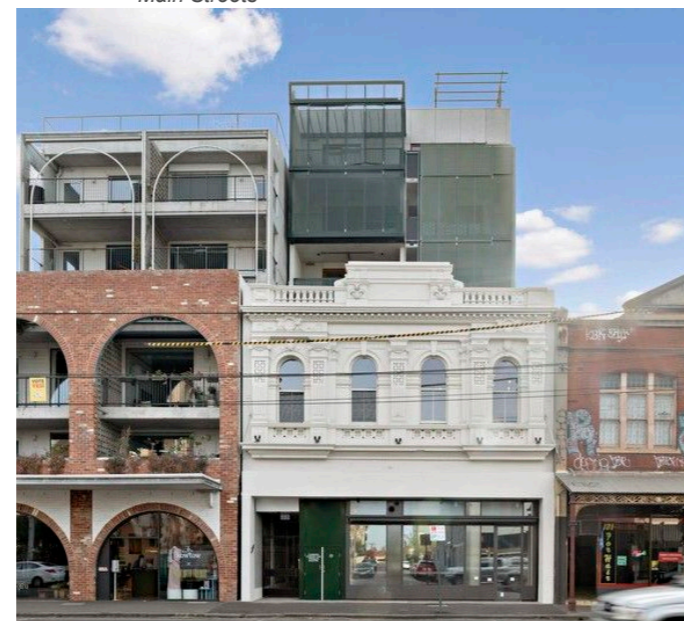
Future urban form

The Main Streets area is proposed to have highly pedestrianised Activity Streets along Highett Road and Railway Parade, supporting retail and hospitality activities. An upgraded pedestrian crossing at the intersection of Highett Road and the rail line, as part of Level Crossing Removal works, will enhance east-west connectivity. Graham Road will be enhanced as a Green Street to provide an inviting pedestrian route to the south and contribute to an urban biodiversity. A new cycling connection (critical link) along the Frankston rail line will improve north-south accessibility between the Former Gasworks Site and Highett Activity Centre.

The Main Streets area will be developed into Mixed-use buildings which maintain a sense of openness and solar access to the public realm. New buildings will complement the existing low-rise character, providing a low-scale street wall which will frame the public realm. The built form will be set back above the street wall to distinguish upper forms and maintain visual prominence of the street wall. Rear setbacks will minimise shadow and visual bulk impacts on neighbouring properties.

The proposed use-mix varies with the role and function of the urban form area.

Figure 6.17: Example of the form of development envisaged for Main Streets



Built form outcomes

The development type recommended in the Main Streets place type is shoptop infill. This development type provides for employment and housing growth and increased vibrancy, particularly outside retail hours, while complementing the existing character and providing a high level of pedestrian amenity. It relies on the amalgamation of up to three typical lots, to create a feasible site width (see SRL East Structure Plan - Urban Design Supporting Research - Attachment A).

This development type incorporates a 2 storey, zero setback, boundary-to-boundary street wall that will complement the existing vibrant and memorable character created by low-rise, continuous, active streetscapes.

The street wall is articulated to reflect the existing fine-grain character and activated by commercial ground floor uses. Above the street wall, upper levels are set back to ensure an appropriate balance between openness and enclosure in the street, along with good solar access.

Building height and density

Main Streets are characterised by narrow, 1 to 2 storey buildings. The narrow width of the lots and their fragmented ownership means it is likely that not all lots will be redeveloped. Therefore, maximum building heights are influenced by the need to complement the scale of existing buildings, in accordance with Strategy UF8: Main streets and existing small retail strips.

Building heights are also influenced by the street width. In order to maintain a sense of openness and solar access to the opposite footpath, building form is proposed to be limited by a 45° plane from the opposite street boundary, in accordance with strategy BF6: Street scale.

Based on testing of typical property sizes in each urban form area within this place type, it is envisaged that heights of 7 storeys can be achieved, resulting in a density of approximately 4:1. Testing of shoptop infill development on typical Main Streets lots is illustrated in the SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

'Landmark' sites may have increased height and density to mark key points in the urban structure, subject to high quality design.

Street wall height

A preferred street wall height of 9 metres (2 storeys) is proposed to ensure the public realm is well framed, in accordance with Strategy BF6: Street scale, and to complement the existing low-rise character, in accordance with Strategy UF8: Main streets and existing small retail strips. This may be increased to 12 metres (3 storeys) at intersections to contribute to a visually diverse streetscape and recognise the characteristic feature of bigger buildings on street corners.

Building setbacks

The following setbacks are proposed:

Podium

- A zero street setback at podium level, to frame the public realm and support public realm activation, in accordance with strategy BF7: Engaging facades
- A zero side back
- A zero rear setback up to a height of 5 metres.

Above Podium

- A 5-metre setback from the podium façade up to a height of 21 metres
- An additional street setback of 1 metre per metre of height above that, to distinguish upper forms from and maintain the visual prominence of the street wall in accordance with Strategy UF8: Main streets and existing small retail strips, and to maintain a sense of openness in accordance with Strategy BF6: Street scale
- Rear, upper level setbacks to avoid unreasonable visual bulk:
 - At interfaces with residentially zoned land outside the Structure Plan Area, 1 metre per metre of height above 5 metres up to a maximum setback of 15 metres
 - At interfaces with Residential Neighbourhoods, 0.7 metres per metre of height above 5 metres up to a maximum of 15 metres
 - At interfaces with Urban Neighbourhoods or Strategic Sites - 4.5 metres above ground floor.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres.

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity to Hightett Road. The proposed standard will provide solar access to 100 per cent of the footpaths for a minimum of 3 hours at the spring equinox.

The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Key Movement Corridors, Urban Neighbourhoods and Residential Neighbourhoods.

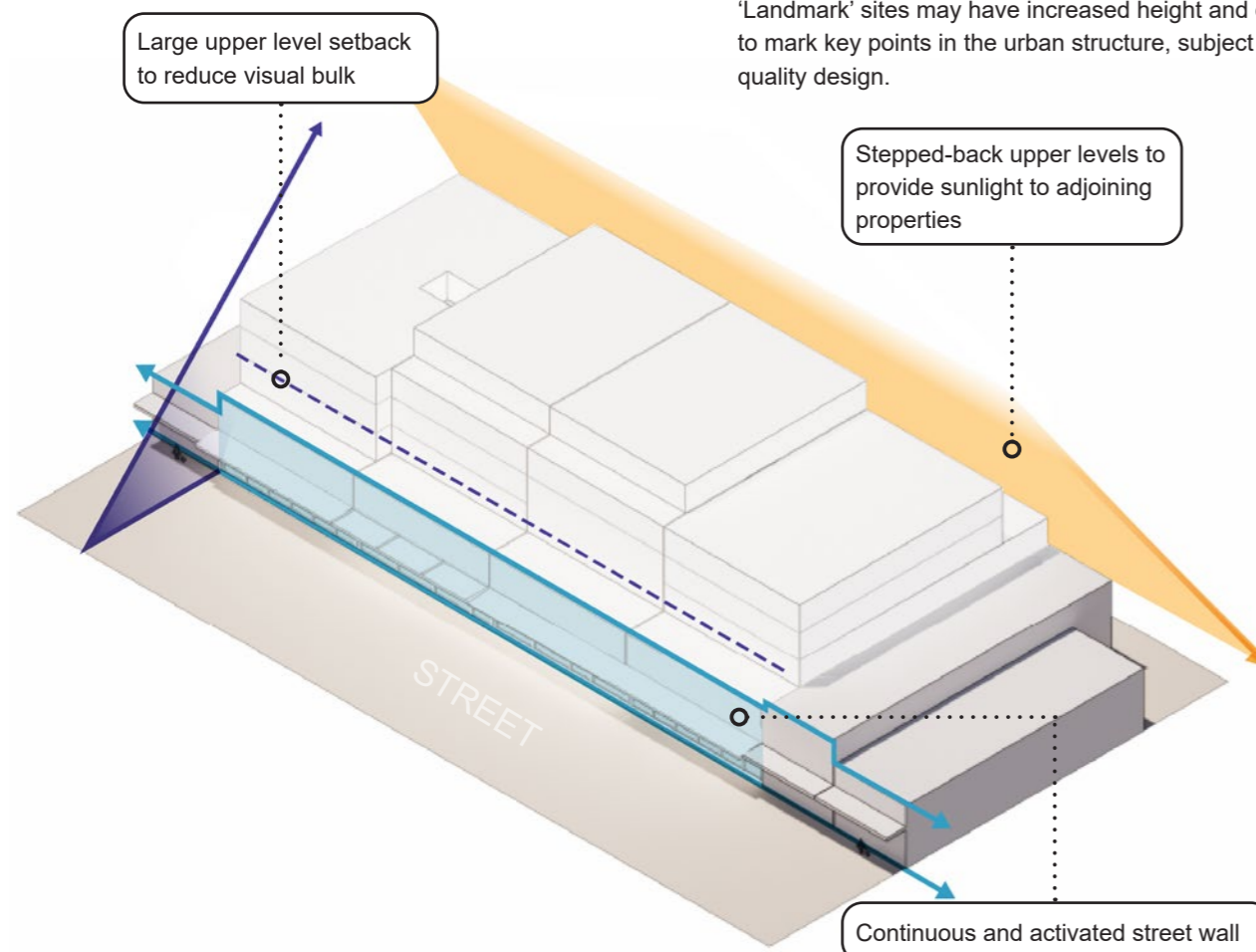
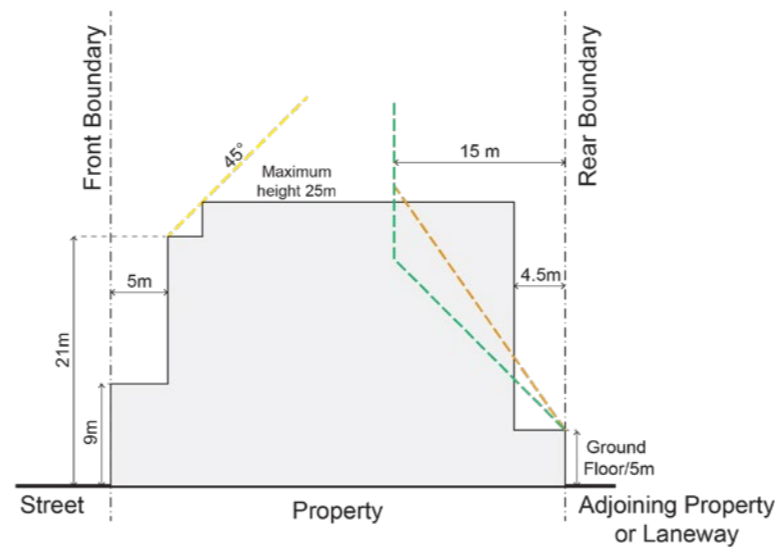


Figure 6.18: Built form outcomes for the shoptop infill typology.

Summary of built form outcomes

The Urban Form Outcomes for the Main Street development type are summarised below.

Building height and density		
Maximum height	25 metres (6 to 7 storeys)	
Maximum density	4:1	
Street Wall		
Preferred height	9 metres (2 storeys)	
Intersection height	12 metres (3 storeys)	
Activation	High	
Building setbacks		
Street	0 metres	
Street - above podium	5 metres+1 metre per metre of height above 21 metres	
Side	0 metres	
Rear - abutting Urban Neighbourhoods or Strategic Sites	4.5 metres above ground floor level	
Rear - abutting Residential Neighbourhoods	0.7 metres per metre above a height of 5 metres up to a maximum of 15 metres	
Rear - abutting residential land outside the Structure Plan Area	1 metre per metre of height above 5 metres, up to a maximum setback of 15 metres	
Building separation		
Minimum building separation	9 metres	
Overshadowing		
Place type of neighbouring property	Number of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Key Movement Corridor, Urban neighbourhood	3 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser.
Strategic Site /Residential neighbourhood	4 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Outside the Structure Plan Area	5 hours	40 square metres or 75 per cent, whichever is the lesser of secluded private open space.
Adaptability		
Minimum ground level floor-to-floor height	4 metres	



- Adjacent Residential Neighbourhoods setback additional 0.7 metres per metre of height above 5 metres up to a maximum of 15 metres
- Adjacent Residential Land outside the Structure Plan Area setback additional 1 metre per metre of height above 5 metres up to a maximum of 15 metres
- Additional street setback of 1 metre per metre of height above 21 metres

Figure 6.19: Built form outcomes section - Upper level setback

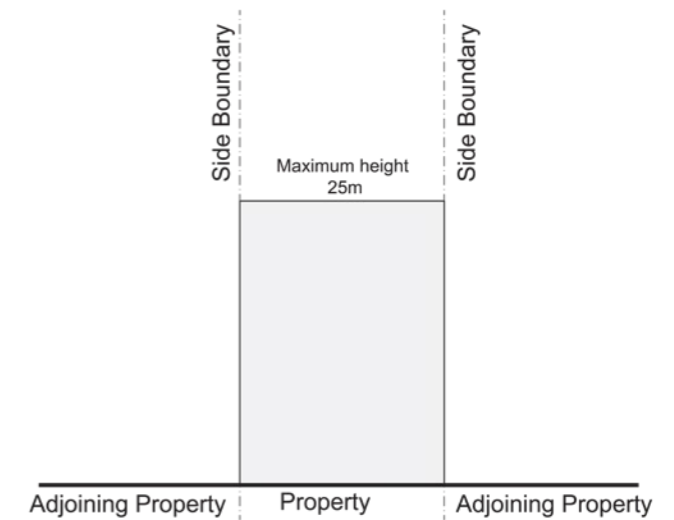


Figure 6.20: Built form outcomes section - side to side

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Main Streets area. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.

Public realm enhancements

Enhancements to deliver
Design Direction 1: Ensure streets are inviting places that support community life.

- █ Highett Road - Activity Street
- █ Streetscape improvements - Green Street

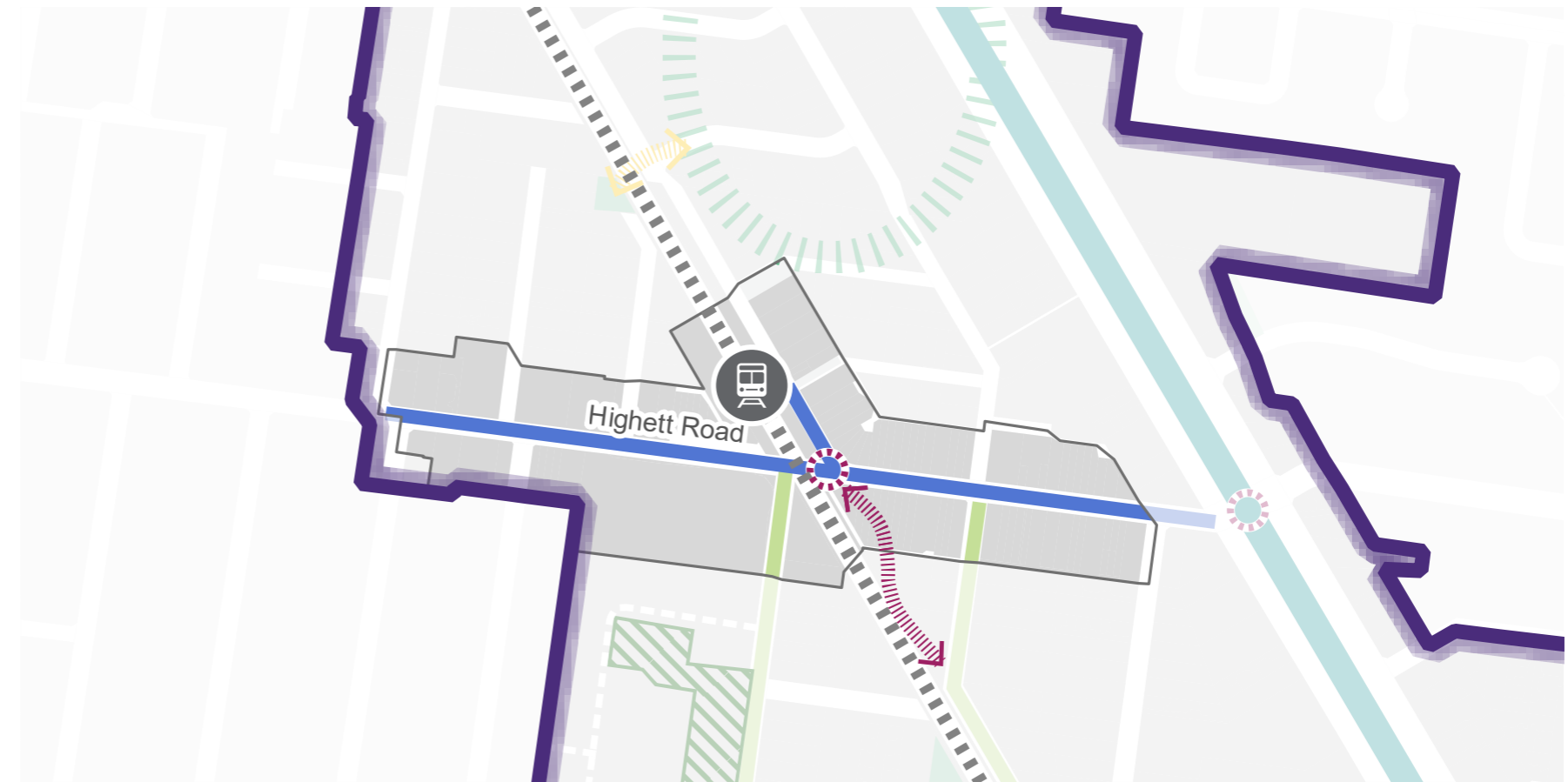






Figure 6.21: Public realm outcomes - Main Streets

Legend

-  SRL station
-  Existing Highett Station
-  Structure Plan Area
-  Urban form area boundary

Typical building and public realm profile

This cross-section shows a typical Main Street building with an Activity Street to provide an illustration of the future built form and public realm outcomes for this area.

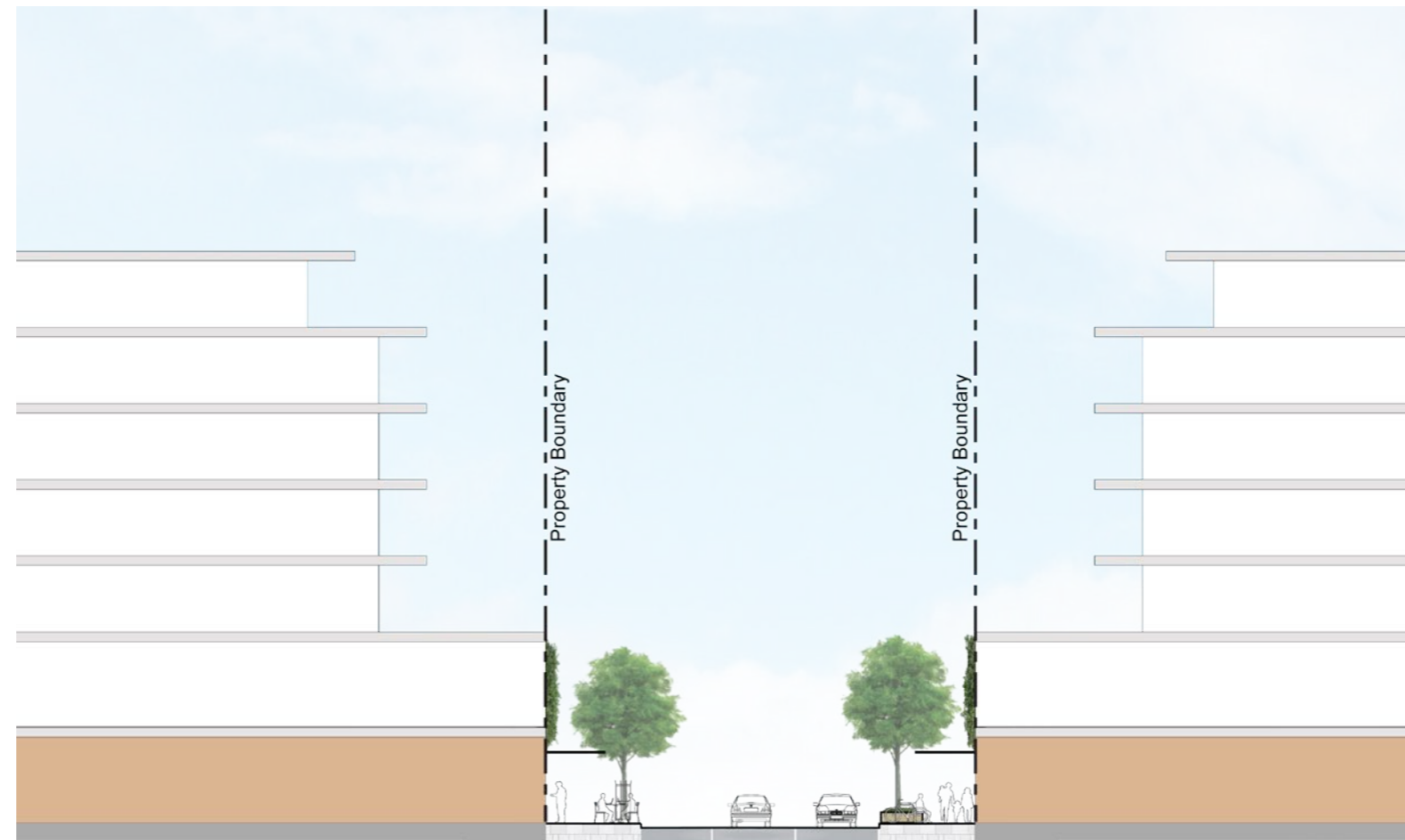


Figure 6.22: Potential cross-section - Main Streets

6.5 Key Movement Corridors

Main roads

The urban form areas identified as belonging to this place type include:

- B – Bay Road
- C – Chesterville Road
- K – Nepean Highway North
- N – Bay Road West.

Refer to Section 4.5 for a detailed description of these urban form areas.

Future role and function

Substantial change of built form providing space for jobs growth, local services and housing along Key Movement Corridors

These streets are the key movement corridors carrying public transport. They offer a high level of accessibility to jobs and services. Therefore, they are an appropriate location for a higher level of intensification and mixed use to contribute to a new 'Boulevard' or 'Avenue' character.

Future drivers

Balance between openness and enclosure of the street

These urban form areas are outside the core of the Structure Plan Area and generally border the residential hinterland. Their development should seek to deliver moderate growth in a form that gives consideration to amenity and character.

Enhance landscape character and amenity within the street (urban form areas B, K,N)

In urban form areas where high intensity of ground floor commercial activity is not sought, development should contribute to the amenity of the street through a landscaped front setback.

Moderate level of activation to the street (urban form areas C, R)

These streets are intended to have commercial activity at ground floor, comprising a mix of retail services, office and showroom uses. There will be a moderate level of pedestrian activity in this area as a result of people walking to these uses. Therefore, it is critical that a good level of street activation is provided to ensure safety, consistent with SRL Urban Design Objectives of *Activation* and *Safer design*.

Future urban form

Nepean Highway Boulevard will have a high movement function with public transport connecting Cheltenham, Southland and Highett Activity Centres via a wide, generous primary road and public transport corridor that serves multiple uses and provides strong landscape and pedestrian outcomes, including canopy trees and pedestrian crossing opportunities. Bay Road and Chesterville Road will promote activated pedestrian zones supported by placemaking outcomes, and significant tree canopy. Additionally, these Avenues will provide wide and tree-lined 'connector' streets that accommodate active and/or public transport with nodes of pedestrian amenity to create places for people to move and dwell.

The Key Movement Corridors are proposed to host mid-rise apartment buildings with pockets of mixed use buildings. Upper levels will be setback from the street wall to maintain solar access and the sense of openness to the public realm, whilst rear setbacks will maintain solar access and minimise visual bulk impacts on neighbouring properties. A modest street setback will provide definition and activation to the public realm, and maintain privacy to ground floor dwellings.

Figure 6.23: Key Map - Key Movement Corridors

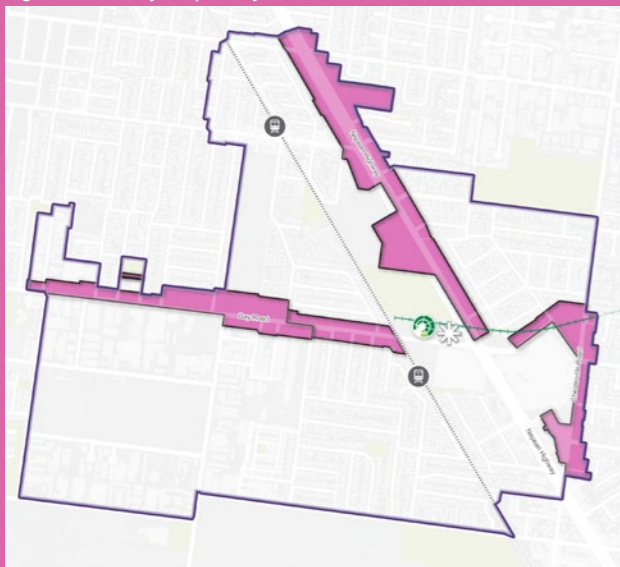


Figure 6.24: Example of the form of development envisaged for Key Movement Corridors



Built form outcomes

The development type recommended in the Key Movement Corridors is the urban infill. This is a traditional form of development that delivers highly adaptable buildings able to accommodate commercial and/or residential uses.

This development type delivers moderately high density along main roads, in accordance with Strategy UF6. Boulevards and Avenues, without the potentially adverse impacts of taller buildings. Importantly, it can be developed on the vast majority of the lots found in these places without the need for lot amalgamation (see SRL East Structure Plan - Urban Design Supporting Research - Attachment A).

This development type provides a vibrant and memorable urban character, good private amenity and protection of neighbouring amenity to the rear, adaptability for mixed and changing uses, and reasonable space for tree canopy cover. The minimal front setback and lack of side setbacks ensure a well-activated and strongly-framed public realm. The strong relationship with the street also supports commercial uses at ground or upper levels where desired.

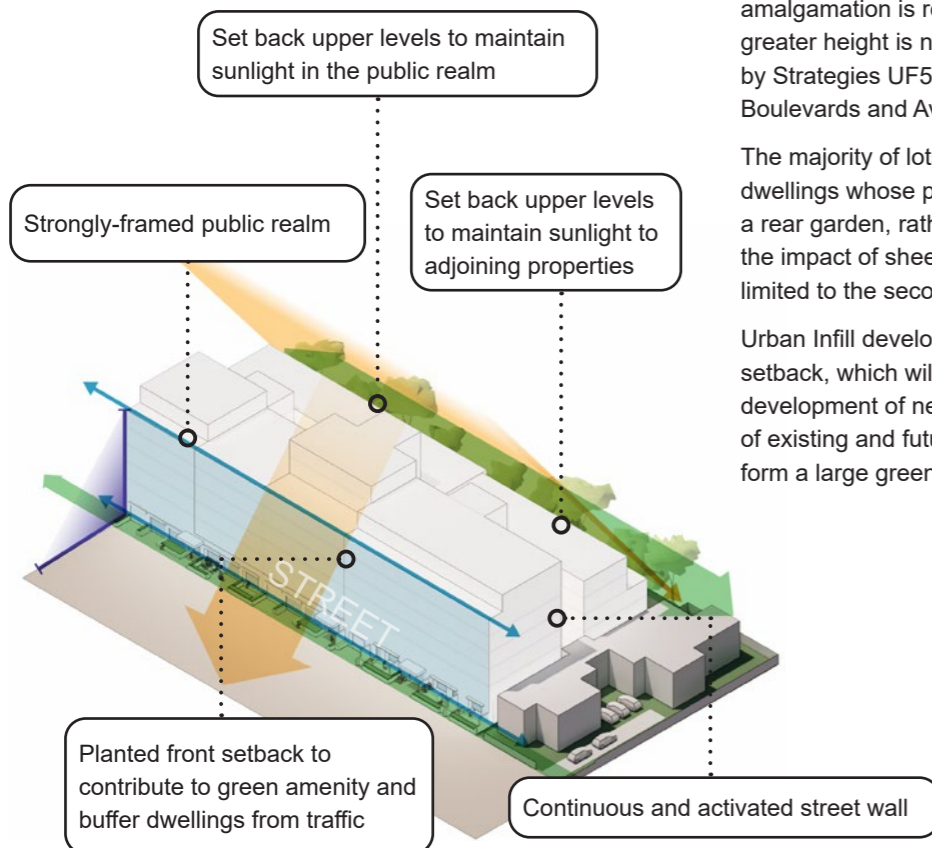


Figure 6.25: Built form outcomes for Key Movement Corridors

The primary orientation of accommodation to the street and middle of the block enables differing uses to comfortably exist side-by-side where relevant. Generous rear setbacks ensure good amenity for accommodation facing towards the middle of the block, including adjacent properties to the rear, and space for tree planting.

As the Key Movement Corridors evolve through new urban infill development, they will experience a substantial change in character. As noted in Design Direction 5, this is considered to be an inevitable outcome of the vision for transformational change. This kind of transition in character is consistent with other transforming areas such as Brunswick Activity Centre, Cremorne and Box Hill between Whitehorse Road and the hospital. Low-rise dwellings will no longer represent the preferred character, and will increasingly become anomalies.

The sheer on-boundary side walls of urban infill development will change the amenity of any neighbouring low-rise dwellings to the side. However, the lack of side setbacks is necessary to enable viable development of appropriate density on single lots and avoid constraining development on neighbouring properties to the side, in accordance with Strategy BF11: Building orientation. The introduction of side setbacks to protect the existing amenity and character would mean that lot amalgamation is required to achieve a viable floorplate, and greater height is needed to maintain the density envisaged by Strategies UF5: Mixed-use neighbourhoods and UF6: Boulevards and Avenues.

The majority of lots in this place type are occupied by detached dwellings whose primary orientation is towards the street and a rear garden, rather than towards side boundaries. Therefore, the impact of sheer on-boundary side walls will be generally limited to the secondary rooms that face side boundaries.

Urban Infill development is proposed to have a generous rear setback, which will limit its impact on the amenity and equitable development of neighbouring rear gardens. The rear setbacks of existing and future development will ultimately combine to form a large green space in the middle of the block.

The building height and upper level street setbacks vary based on street width to ensure an appropriate balance between openness and enclosure in the street, along with reasonable solar access. In the Key Movement Corridors, urban infill provides a taller street wall, with upper levels maintaining a 1:1 ratio with the street. This development type includes a landscaped front setback as well as a generous rear setback, resulting in a combined 10 to 15 per cent deep soil area across the front and rear of the lot.

The proposed use-mix varies with the role and function of the urban form area.

Building height and density

Building heights are proposed to be determined by the street width and lot depth, up to a maximum of 8 storeys. In order to balance spatial definition and a sense of openness, building form is proposed to be limited by two variables:

- A 45° plane from the opposite street boundary, in accordance with Strategy BF6: Street scales.
- An angled plane at the rear to limit visual bulk impacts to neighbouring properties, while enabling taller buildings on deeper lots, and to avoid unreasonable shadow impacts on neighbouring properties in accordance with Strategy BF12: Rear amenity plane.

Based on testing of typical property sizes in each urban form area within this place type, it is envisaged that heights of 27 metres (7 to 8 storeys) can be achieved, resulting in a density of approximately 3.5:1. Testing of urban infill development in typical Key Movement Corridors is illustrated in SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

In sensitive areas of Mary Avenue and Middleton Street and the properties immediately south of Eddie Reserve, a maximum building height of 15 metres (4 storeys) is proposed. In all other sensitive areas, a maximum building height of 21 metres (5-6 storeys) is proposed. Sensitive areas are shown in Figure 6.1.

Street wall height

A minimum street wall height of 14 metres (3 to 4 storeys) is proposed to ensure that the public realm is well framed, in accordance with Strategy BF6: Street scale. The maximum street wall height is proposed to be 21 metre (5 to 6 storeys), to balance spatial definition and a sense of openness, and to maintain solar access in the streets.

The maximum street wall height in sensitive areas along Mary Avenue and Middleton Street is reduced to 11 metres to manage the interface with the low density residential properties outside the Structure Plan Area.

Building setbacks

The following setbacks are proposed:

- A 3-metre street setback, to balance spatial definition and public realm engagement with the privacy of ground floor dwellings in accordance with strategies BF8: Active frontage and BF9: Residential frontage
- In the existing small retail strips the street setback should match the prevailing building line in accordance with Strategy BF8: Active frontages – see Figure 5.03 Preferred street frontages and setbacks plan. These include:
 - Bay Road / Avoca Street small retail strip
 - Bay Road East small retail strip (Bay Road East Shopping Centre)
 - Chesterville Road small retail strip (Chesterville Road Shopping Centre)
- An additional 4 metres setback above 21 metre to maintain a sense of openness and solar access
- Zero side setback where there is no primary outlook to enable the development of single lots with buildings that face the street and the rear of the lot – this will also maintain equitable development opportunities for neighbouring properties, in accordance with Strategy BF11: Building orientation
- Side setbacks of 4.5 metres where there is a primary outlook to an adjacent private property. Wherever applicable, side setbacks should be measured from the centreline of an adjoining laneway
- Side setback of 3 metres where abutting public open space
- A 6-metre rear setback to provide for deep soil planting, in accordance with strategy BF14: On-site landscaping. It is envisaged that these rear setbacks will combine to create a green spine along the rear of all lots in this place type, establishing valuable habitat and potentially communal amenity. This does not apply at ground floor in existing small retail strips
- Additional rear setbacks of 0.7 metres per metre of additional height above 11 metres, or above 14 metres where abutting public open space, to manage visual bulk impacts.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres.

Summary of built form outcomes

The built form outcomes for the urban infill development type are summarised below.

Building height and density		
Maximum height	27 metres (7 to 8 storeys)	
Maximum height (sensitive areas)	21 metres (5 to 6 storeys)	
Maximum height-sensitive areas along Mary Avenue and Middleton Street and immediately south of Eddie Reserve	15 metres (4 storeys)	
Maximum density	3.5:1	
Maximum density (sensitive areas)	3:1	
Street Wall		
Minimum Height	14 metres (3 to 4 storeys)	
Maximum height	21 metres (5 to 6 storeys)	
Maximum height-sensitive areas along Mary Avenue and Middleton Street	11 metres (2 to 3 storeys)	
Activation	Moderate	
Building setbacks		
Street-general	3 metres landscaped; 7 metres above 21 metre	
Street - Existing small retail strips	Match the prevailing building line plus 4 metres above a height of 21 metres	
Rear-general	6 metres, landscaped + 0.7 metres per metre of height above 11 metres or above 14 metres where abutting public open space	
Rear- Existing small retail strips	6 metres above ground floor + 0.7 metres per metre of height above 11 metres	
Side - non-primary outlook	0 metres	
Side - primary outlook	4.5 metres	
Side - abutting public open space	3 metres	
Building separation		
Minimum building separation	9 metres	
Overshadowing		
Place type of neighbouring property	Number of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Key Movement Corridor, Urban Neighbourhood	3 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser.
Residential Neighbourhood	4 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser.
Adaptability		
Minimum ground level floor-to-floor height	4 metres	

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing recommended at the edges of Eddie Reserve will maintain 70 per cent solar access to these spaces for a minimum of 3 hours at mid-winter.

The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Key Movement Corridors, Urban Neighbourhoods and Residential Neighbourhoods.



Figure 6.28: Indicative streetscape typical only to illustrate potential outcomes

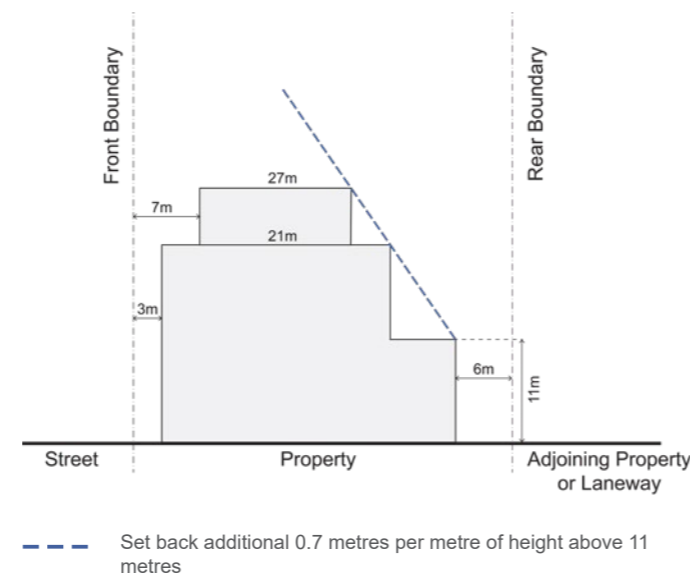


Figure 6.26: Built form outcomes section - front to rear

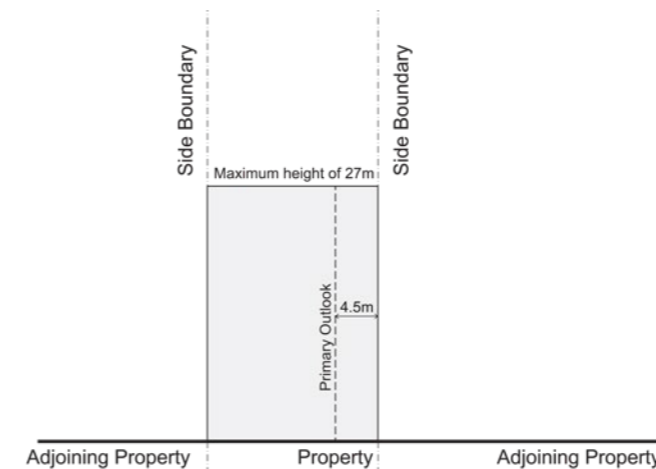



Figure 6.27: Built form outcomes section - side to side

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Key Movement Corridors. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.




SRL Rail and Infrastructure

Public realm elements within the SRL Rail and Infrastructure Works.

-  Pedestrian crossings (new or upgraded)


Development

Development features creating an accessible and permeable key movement corridors, as part of Design Direction 2: Promote active transport access.

-  Open space (new) - investigation area
-  Important key link - flexible
-  Important key link (improved widened) - fixed

Key public realm projects

Key public realm interventions critical to creating accessible and permeable key movement corridors, as part of Design Direction 2: Promote active transport access.

-  Pedestrian crossings (new or upgraded)

Public realm enhancements

Enhancements to deliver

Design Direction 1: Ensure streets are inviting places that support community life.



-  Nepean Highway streetscape improvements - Boulevard
-  Bay Road and Chesterville Road streetscape improvements - Avenue



Figure 6.29: Public realm outcomes - Key Movement Corridors

Typical building and public realm profile

This cross-section shows a typical urban infill building with an Avenue to provide an illustration of the future built form and public realm outcomes for this area.

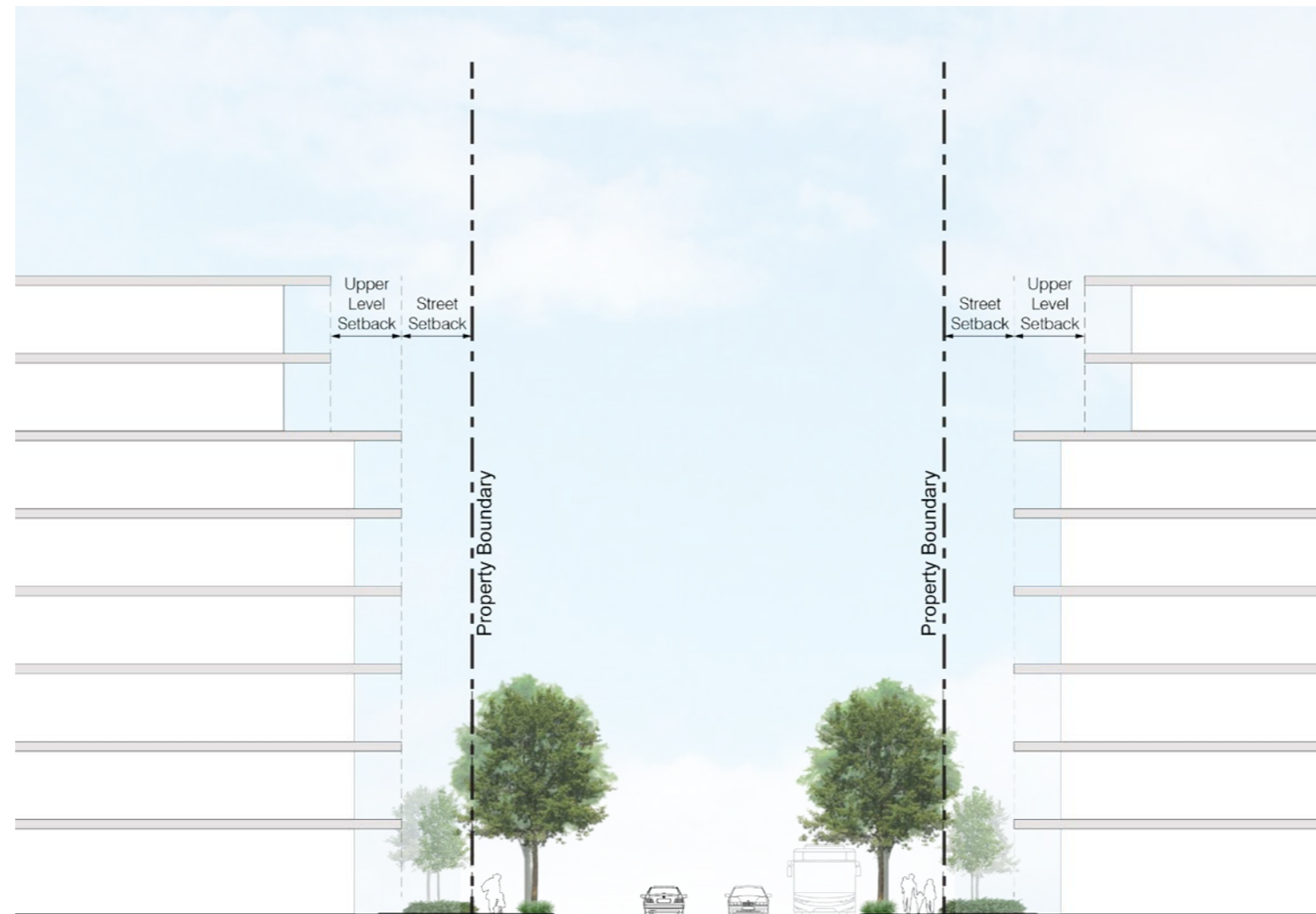


Figure 6.30: Potential cross-section - Key Movement Corridors

6.6 Urban Neighbourhoods

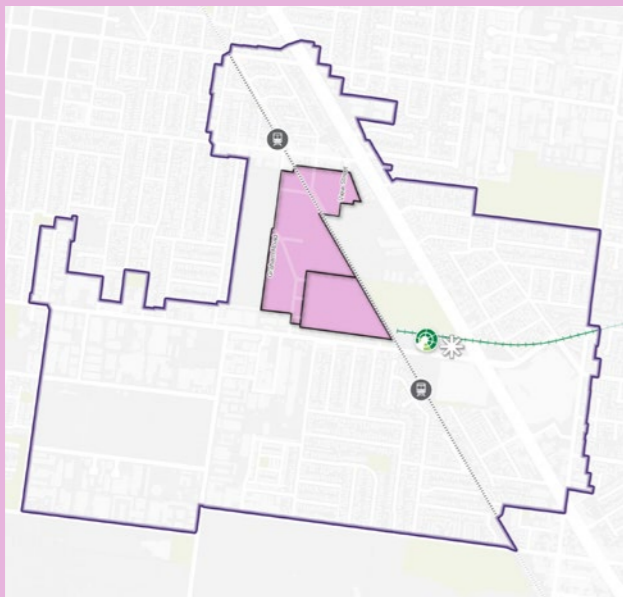
Well served residential areas

The urban form areas identified as belonging to this place type include:

- M – Graham Road
- J – Jackson Road.

Refer to Section 4.5 for a detailed description of these urban form areas.

Figure 6.31: Key Map - Urban Neighbourhoods



Future role and function

Substantial change of built form providing space for jobs growth, local services and housing surrounding the core

This area lies immediately adjacent to and is well integrated with an activity centre. It offers a high level of accessibility to jobs and services. Therefore, it is an appropriate location for a higher level of intensification and mixed use.

Future drivers

Balance between openness and enclosure of the street

These urban form areas are outside the core of the Structure Plan Area and borders the residential hinterland. Therefore, its level of intensification should be balanced with amenity and character considerations.

Enhance landscape character and amenity within the street

In urban form areas where ground floor commercial activity is not sought, development should contribute to the amenity of the street through a landscaped front setback.

Capitalise on amenity provided by open space

These urban form areas lie adjacent to Lyle Anderson Reserve or new open space in the Park Village Highett development. The amenity provided by these spaces should be capitalised upon by optimising the number of dwellings adjacent to it and providing improved access for the neighbourhood beyond.

Future urban form

The Urban Neighbourhood is proposed to have a network of Green Streets and pedestrian links enhancing the urban biodiversity and provide inviting pedestrian routes to key destinations such as the public transport nodes and commercial and retail cores around SRL station at Cheltenham and the existing Highett Station, Lyle Anderson Reserve and new public open spaces within Highett Common. Station Street is proposed to be upgraded as a Green Street to enhance the pedestrian amenity of this north-south connection.

The Urban Neighbourhood is proposed to provide mid-rise apartment and mixed use buildings which maintain solar access and the sense of openness to the public realm. The street wall will frame the public realm, whilst a street setback will balance spatial definition and public realm engagement, and ensure privacy to ground floor dwellings. Built form at the rear will be setback to minimise visual bulk impacts to neighbouring properties.

Figure 6.32: Example of the form of development envisaged for Urban Neighbourhoods



Built form outcomes

The development type recommended in the Urban Neighbourhoods is the urban infill. This is a traditional form of development that delivers highly adaptable buildings able to accommodate commercial and/or residential uses.

This development type delivers moderately high density along main roads, in accordance with Strategy UF6. Boulevards and Avenues, without the potentially adverse impacts of taller buildings. Importantly, it can be developed on the vast majority of the lots found in these places without the need for lot amalgamation (see Best Practice Urban Development Typologies report in SRL East Structure Plan - Urban Design Supporting Research - Attachment A).

This development type provides a vibrant and memorable urban character, good private amenity and protection of neighbouring amenity to the rear, adaptability for mixed and changing uses, and reasonable space for tree canopy cover. The minimal front setback and lack of side setbacks ensure a well-activated and strongly-framed public realm. The strong relationship with the street also supports commercial uses at ground or upper levels where desired.

The primary orientation of accommodation to the street and middle of the block enables differing uses to comfortably exist side-by-side where relevant. Generous rear setbacks ensure good amenity for accommodation facing towards the middle of the block, including adjacent properties to the rear, and space for tree planting.

As the Urban Neighbourhoods evolve through new urban infill development, they will experience a substantial change in character. As noted in Design Direction 5, this is considered to be an inevitable outcome of the vision for transformational change. This kind of transition in character is consistent with other transforming areas such as Brunswick Activity Centre, Cremorne and Box Hill between Whitehorse Road and the hospital. Low-rise dwellings will no longer represent the preferred character, and will increasingly become anomalies.

The sheer on-boundary side walls of urban infill development will change the amenity of any neighbouring low-rise dwellings to the side. However, the lack of side setbacks is necessary to enable viable development of appropriate density on single lots and avoid constraining development on neighbouring properties to the side, in accordance with Strategy BF11: Building orientation. The introduction of side setbacks to protect the existing amenity and character would mean that lot amalgamation is required to achieve a viable floorplate, and greater height is needed to maintain the density envisaged by Strategies UF5: Mixed-use neighbourhoods and UF6: Boulevards and Avenues.

The majority of lots in this place type are occupied by detached dwellings whose primary orientation is towards the street and a rear garden, rather than towards side boundaries. Therefore, the impact of sheer on-boundary side walls will be generally limited to the secondary rooms that face side boundaries.

Urban Infill development is proposed to have a generous rear setback, which will limit its impact on the amenity and equitable development of neighbouring rear gardens. The rear setbacks of existing and future development will ultimately combine to form a large green space in the middle of the block.

The building height and upper level street setbacks vary based on street width to ensure an appropriate balance between openness and enclosure in the street, along with reasonable solar access. In the Urban Neighbourhoods a building height of 24 metres with a 4-storey street wall and upper level setback is proposed to maintain an open character.

This development type includes a landscaped front setback as well as a generous rear setback, resulting in a combined 10 to 15 per cent deep soil area across the front and rear of the lot.

The proposed use-mix varies with the role and function of the urban form area.

Building height and density

Building heights are proposed to be determined by the street width and lot depth. In order to balance spatial definition and a sense of openness, building form is proposed to be limited by two variables:

- A 45° plane from the opposite street boundary, in accordance with Strategy BF5: Sunlight to public realm
- A September equinox solar plane from the top of a typical rear boundary fence to avoid unreasonable impacts on neighbouring residential properties, in accordance with Strategy BF12: Rear amenity plane. This will limit visual bulk impacts to neighbouring properties at the rear, while enabling taller buildings on deeper lots.

Based on testing of typical property sizes in each urban form areas within this place type, it is envisaged that heights of 24 metres (6 to 7 storeys) can be achieved, resulting in a density of approximately 3:1. Testing of urban infill development in typical Urban Neighbourhoods is illustrated in SRL East Structure Plan - Urban Design Supporting Research - Attachment A.

Street wall height

A minimum street wall height of 11 metres (3 storeys) is proposed to ensure that the public realm is well framed, in accordance with Strategy BF6: Street scale. The maximum street wall height is proposed to be 14 metres (4 storeys), to complement the existing lower-rise buildings in these areas.

Building setbacks

The following setbacks are proposed:

- A 3-metre street setback, to balance spatial definition and public realm engagement with the privacy of ground floor dwellings, in accordance with strategies BF8: Active frontages and BF9: Residential frontages
- An additional street setback above 14 metres of 2 metres or that required to remain below a 45° plane from the opposite street boundary, whichever is greater to maintain a sense of openness and solar access
- Zero side setback where there is not primary outlook. This is designed to enable the development of single lots, with buildings that face the street and the rear of the lot– this will also maintain equitable development opportunities for neighbouring properties, in accordance with Strategy BF11: Building orientation
- Side setbacks of 4.5 metres where there is a primary outlook to an adjacent private property. Wherever applicable, side setbacks should be measured from the centreline of an adjoining laneway
- Side setback of 3 metres where abutting public open space
- A 6-metre rear setback to provide for deep soil planting, in accordance with strategy BF14: On-site landscaping. It is envisaged that these rear setbacks will combine to create a green spine along the rear of all lots in this place type, establishing valuable habitat and potentially communal amenity
- Additional rear setbacks of 0.7 metres per metre of additional height above 11 metres, or above 14 metres where abutting public open space to manage visual bulk impacts.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres.

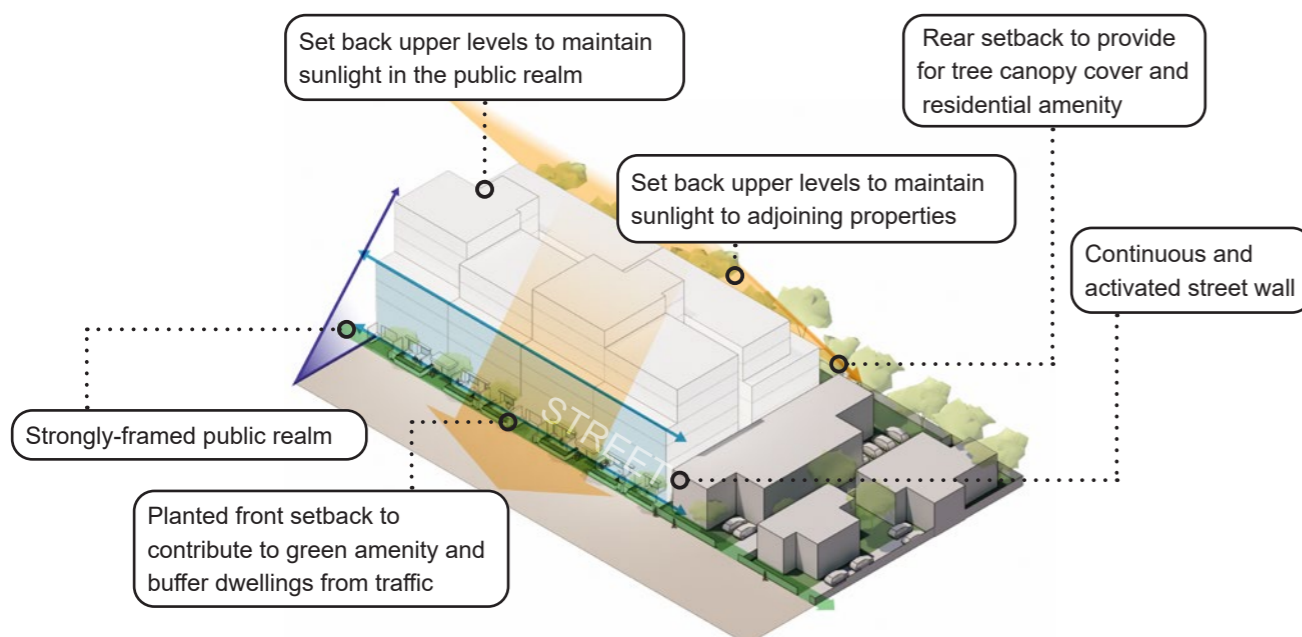


Figure 6.33: Built form outcomes for the urban infill typology

Summary of built form outcomes

The built form outcomes for the urban infill development type are summarised below.

Building height and density		
Maximum height	24 metres (6 to 7 storeys)	
Maximum density	3:1	
Street Wall		
Minimum Height	11 metres (3 storeys)	
Maximum height	14 metres (4 storeys)	
Activation	Moderate	
Building setbacks		
Street	3 metres Landscaped; additional setback above 14 metres of 2 metres or that required to remain below a 45° plane from opposite street boundary, whichever is greater	
Rear	6 metres, Landscaped + 0.7 metres per metre of height above 11 metres, or above 14 metres where abutting public open space	
Side - non-primary outlook	0 metres	
Side - primary outlook	4.5 metres	
Side - abutting public open space	3 metres	
Building separation		
Minimum building separation	9 metres	
Overshadowing		
Place type of neighbouring property	Number of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Key Movement Corridor, Urban neighbourhood	3 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Residential Neighbourhood	4 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Adaptability		
Minimum ground level floor-to-floor height	4 metres	

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing recommended at the edges of Lyle Anderson Reserve will maintain 70 per cent solar access to this space for a minimum of 3 hours at mid-winter.

The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Key Movement Corridors, Urban Neighbourhoods and Residential Neighbourhoods.

Adaptability

A minimum floor-to-floor dimension of 4 metres is proposed at ground floor level to ensure that it can be used for commercial purposes.



Figure 6.34: Indicative street-scape - typical only to illustrate potential outcomes

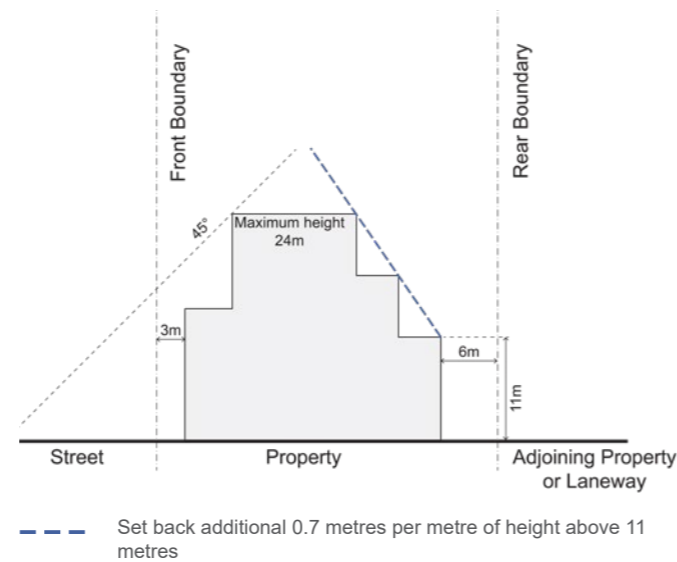


Figure 6.35: Built form outcomes section - front to rear

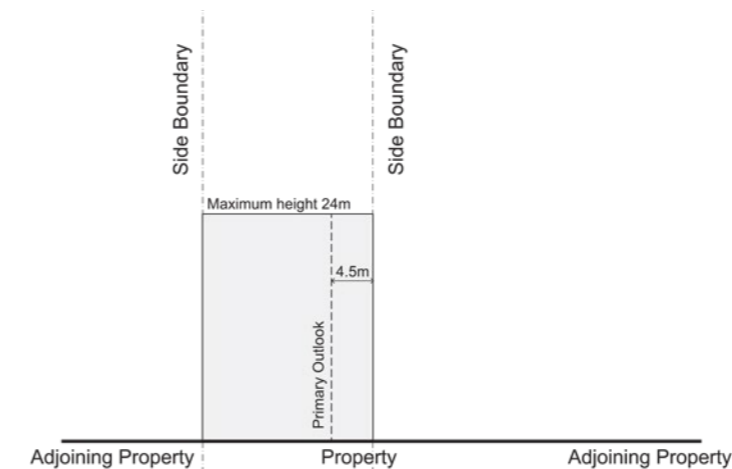







Figure 6.36: Built form outcomes section - side to side

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Urban Neighbourhoods. Realising this aspiration relies on urban development interventions and public realm projects that vary in scale and importance as outlined below.


Development

Development features creating an accessible and permeable Urban Neighbourhoods, as part of Design Direction 2: Promote active transport.

-  Critical key link - flexible
-  Important key link - fixed
-  Important key link - flexible
-  Local key link - flexible
-  Active frontages to open space

Key public realm projects

Key projects to create accessible open space as part of Design Direction 2: Promote active transport access

-  Pedestrian crossings (new or upgraded)

Public realm enhancements







Enhancements to deliver
Design Direction 1: Ensure streets are inviting places that support community life.

-  Streetscape improvements - Green Street



Figure 6.37: Public realm outcomes - Urban Neighbourhoods

Legend

-  SRL station
-  Existing Southland Station
-  Structure Plan Area
-  SRL East alignment
-  Urban form area boundary
-  Existing open space

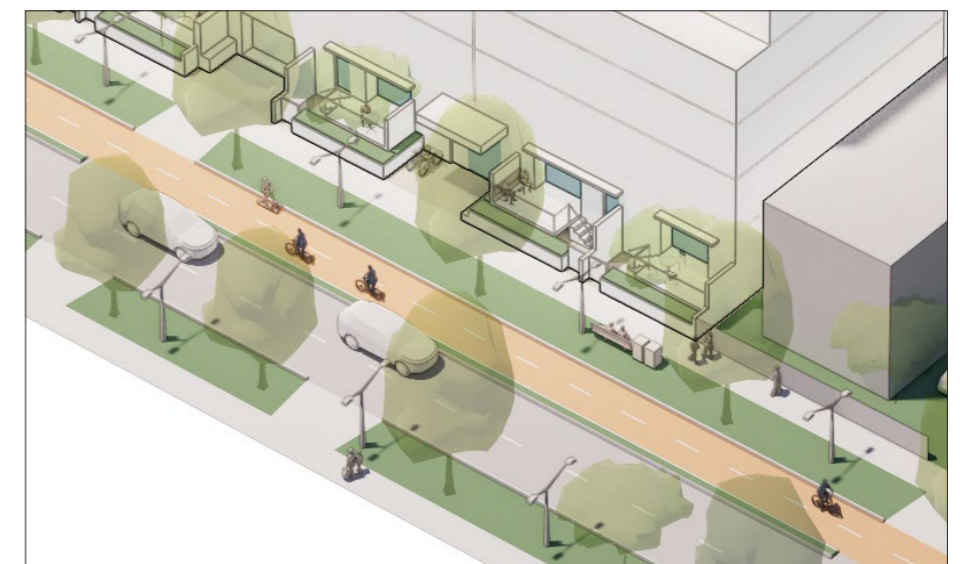


Figure 6.38: Indicative illustration showing a Green Street within an Urban Neighbourhood

Typical building and public realm profile

This cross-section shows a typical urban infill building with a Green Street to provide an illustration of the potential future built form interface with the public realm.

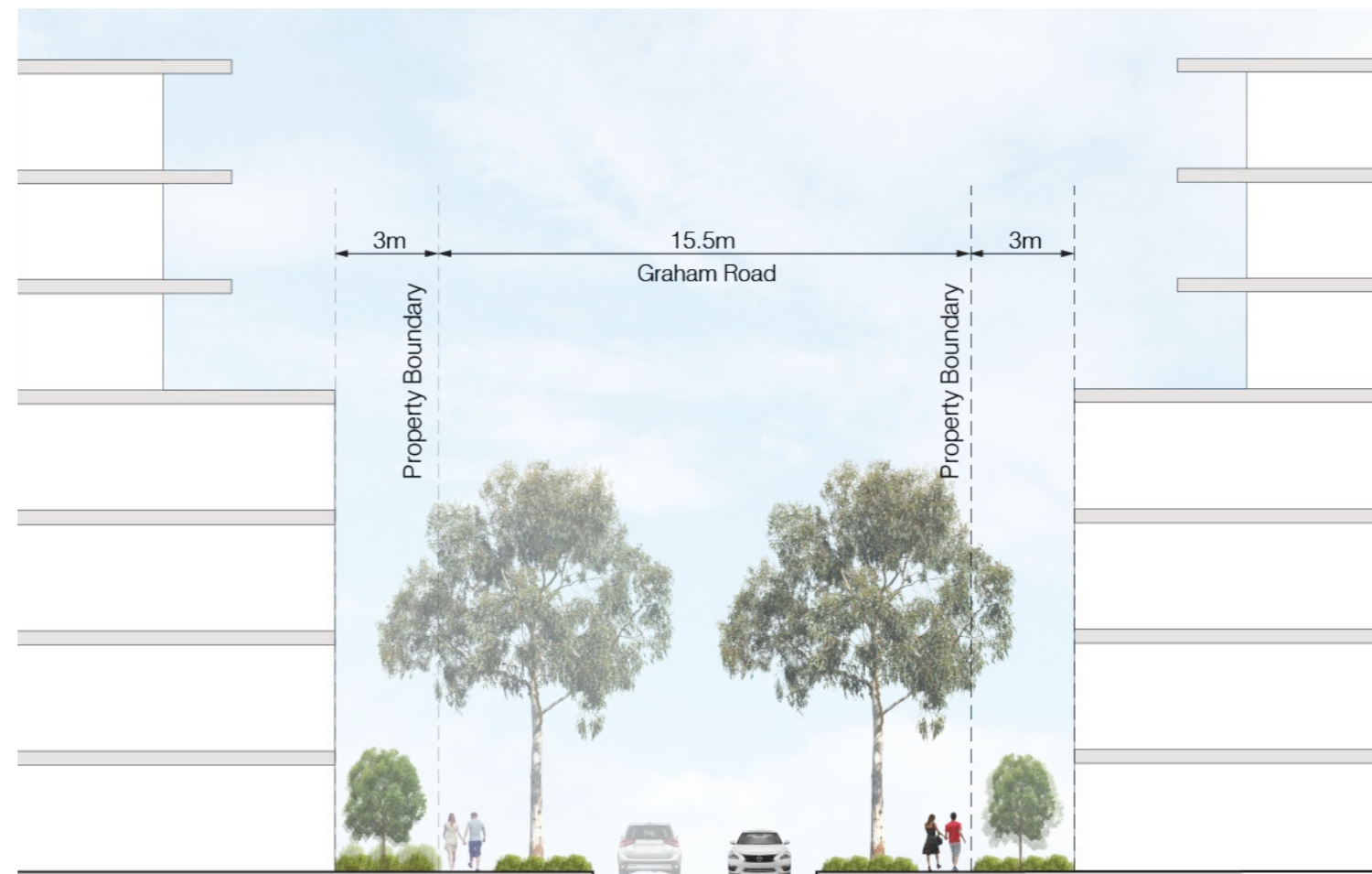


Figure 6.39: Potential cross-section - Urban Neighbourhoods

6.7 Residential Neighbourhoods

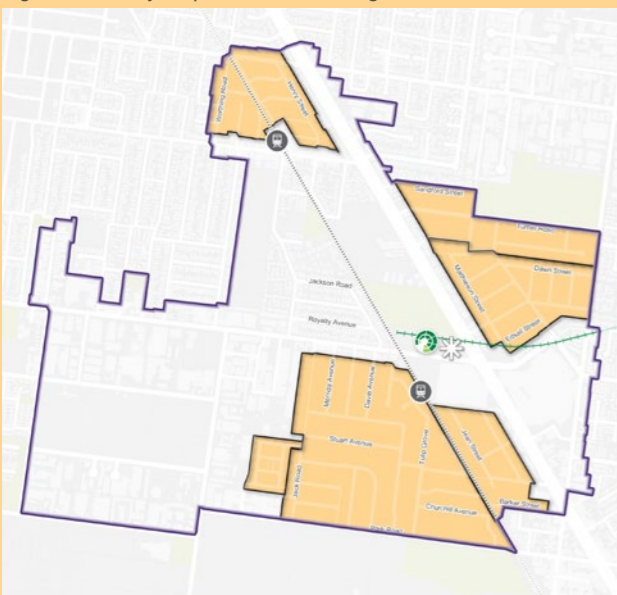
Low-rise residential neighbourhoods

The urban form areas identified as belonging to this place type include:

- D – Pennydale
- E – Jean Street
- G – Highett North
- J – Jackson Road
- L – Highett East
- Q – Pallisades Boulevard
- U – Highett Reserve.

Refer to Section 4.5 for a detailed description of these urban form areas.

Figure 6.40: Key Map - Residential Neighbourhoods



Future role and function

Moderate intensification of built form providing space for more housing

These urban form areas have a low-rise residential character and lie adjacent to the lower-rise residential hinterland. Therefore, only a moderate level of intensification is sought to balance aspirations for growth with responsiveness to existing character, consistent with the SRL Urban Design Objective *Responsiveness*.

Future drivers

Retain garden setting

These urban form areas are characterised by detached dwellings in a garden setting. This delivers high quality amenity and tree canopy cover, and manages the impact of dwellings on neighbouring amenity. Therefore, new development in these urban form areas should retain the garden setting attribute to maintain these outcomes.

Maintain sense of openness in the street

These urban form areas generally lie towards the edge of the Structure Plan Area and have a low-rise existing character. Therefore, future development should maintain a sense of openness in the street to mediate the transition in character.

Future urban form

The Residential Neighbourhood is proposed to have a network of Green Streets and local links to enhance urban biodiversity and provide inviting pedestrian routes to key destinations, including open spaces within and at the periphery of the Structure Plan Area. These links will also improve accessibility and wayfinding to key public transport nodes such as the SRL and Southland stations and the commercial/retail core around them. Three public open space investigation areas are proposed in this urban form area to fill the public open space gaps identified north of Highett Road, east of Nepean Highway and south of Bay Road.

The Residential Neighbourhoods are proposed to provide mid-rise apartment buildings and low-rise townhouses within a garden setting. Generous building setbacks will manage the change in scale from the existing built form. The built form at the street will be set back to provide for canopy trees, whilst the upper levels will be set back to lessen their visual impact on the public realm. Side setbacks will provide for canopy trees and will lessen the visual and shadow impact of the upper levels on neighbouring properties.

Figure 6.41: Examples of the form of development envisaged for Residential Neighbourhoods



Built form outcomes

The development types recommended in the Residential Neighbourhoods are the garden apartments on amalgamated lots and townhouses on single lots.

Garden apartments provide for the same type of development on amalgamated lots as proposed in phase 2 of the Future Homes program, or, going back further, the art deco apartment boom of the 1920s and 30s, but with a slightly increased density, which is considered appropriate because these areas are within walking distance of a higher-order (SRL) station. However, the density is limited to mediate the transition in character and provide a different housing choice than that offered in other urban form areas. In particular, approximately 20 per cent of the apartments will have generous ground level gardens, making them suitable for families.

The development of 4 to 6-storey garden apartments rely on the amalgamation of two typical lots, which is necessary to deliver higher density while providing good-quality internal amenity, and providing a well-landscaped perimeter (see Urban Development Typologies in SRL East Structure Plan - Urban Design Supporting Research - Attachment A).

Importantly, lot amalgamation enables generous side and rear setbacks which will provide for high-quality on-site amenity and significant contribution to tree canopy cover. This typology provides a 35 per cent deep soil area across the front, sides and rear of the lot.

The substantial provision for canopy trees in front, side and rear setbacks will retain and strengthen the leafy character that predominates in these areas. These trees will significantly mitigate the visual presence of taller buildings on the existing streetscape and backyard of these areas.

The landscaped setbacks from all boundaries will also offset the impacts of taller built form on the amenity of neighbouring properties.

Garden apartments are proposed to be limited to 4 storeys in sensitive, isolated or constrained areas, in accordance with Strategy UF1: Substantial change.

The development of 3-storey townhouses with lesser side setbacks are appropriate on typical single lots.

Low front fences and front doors and windows facing the street will provide passive surveillance of the street.

Building height and density

The height of garden apartments in most parts of Residential Neighbourhoods is determined by solar planes intended to protect the amenity of neighbouring properties, resulting in an indicative maximum height of 6 storeys. Although this substantially exceeds the existing building heights, generous landscaped setbacks are proposed to manage this change in character and limit amenity impacts. The proposed maximum height and minimum setbacks delivers a density of approximately 2:1.

In sensitive, isolated or constrained areas, garden apartments are proposed to be limited to 4 storeys for the reasons outlined in Strategy UF1: Substantial change. The areas where garden apartments are proposed to be limited to 4 storeys are shown in Figure 4.6 in Section 4. Where appropriate, the boundaries between areas of 4 or 6 storeys have been adjusted to maintain coherent character areas. This delivers a density of approximately 1.5:1.

Lots less than 24 metres wide (most single lots) are not able to accommodate the proposed side setbacks. Therefore, lesser side setbacks are allowed on these lots. However, they are limited to a height of 3 storeys to manage the impacts of those modest side setbacks. This delivers a density of approximately 1.2:1, which is hoped to incentivise lot amalgamation to enable higher amenity and greening outcomes.

Street wall height

The maximum street wall height is proposed to be 14 metres (4 storeys) for garden apartments, except 11 metres (3 storeys) in sensitive, isolated or constrained areas and for Townhouses, to complement the existing lower-rise buildings in these areas.

Building setbacks

The following minimum setbacks are proposed:

- A 4-metre street setback, to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- An additional setback above the street wall of 0.5 metres per metre of height above 14 metres to lessen the visual impact of the upper form
- A rear setback of 6 metres to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- Additional rear setbacks of 0.7 metres per metre of additional height above 11 metres, or above 14 metres where abutting public open space to manage visual bulk impacts.

Lots equal or greater than 24 metres in width (including where abutting public open space):

- A 4.5-metre side setback to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- For buildings higher than 14 metres, a further side setback of 0.8 metres per metre of height to lessen the visual and shadow impact of the upper form.

Lots less than 24 metres in width, front half of the site:

- Zero side setback for buildings up to a height of 6.9 metres
- A 2-metre side setback for buildings higher than 6.9 metres to lessen the visual and shadow impact of the upper form
- Side setback of 2 metres where abutting public open space.

Lots less than 24 metres in width, rear half of the site (including where abutting public open space):

- A 2-metre side setback for buildings up to a height of 6.9 metres
- For buildings higher than 6.9 metres, a further side setback of 1 metre per metre of height to lessen the visual and shadow impact of the upper form.

Side street:

- A 4-metre setback for lots equal or greater than 24 metres in width, to provide for canopy trees.
A 2-metre setback for lots less than 24 metres in width, to provide for canopy trees.

Building separation

Within a site, buildings should be separated by a minimum of:

- 9 metres.

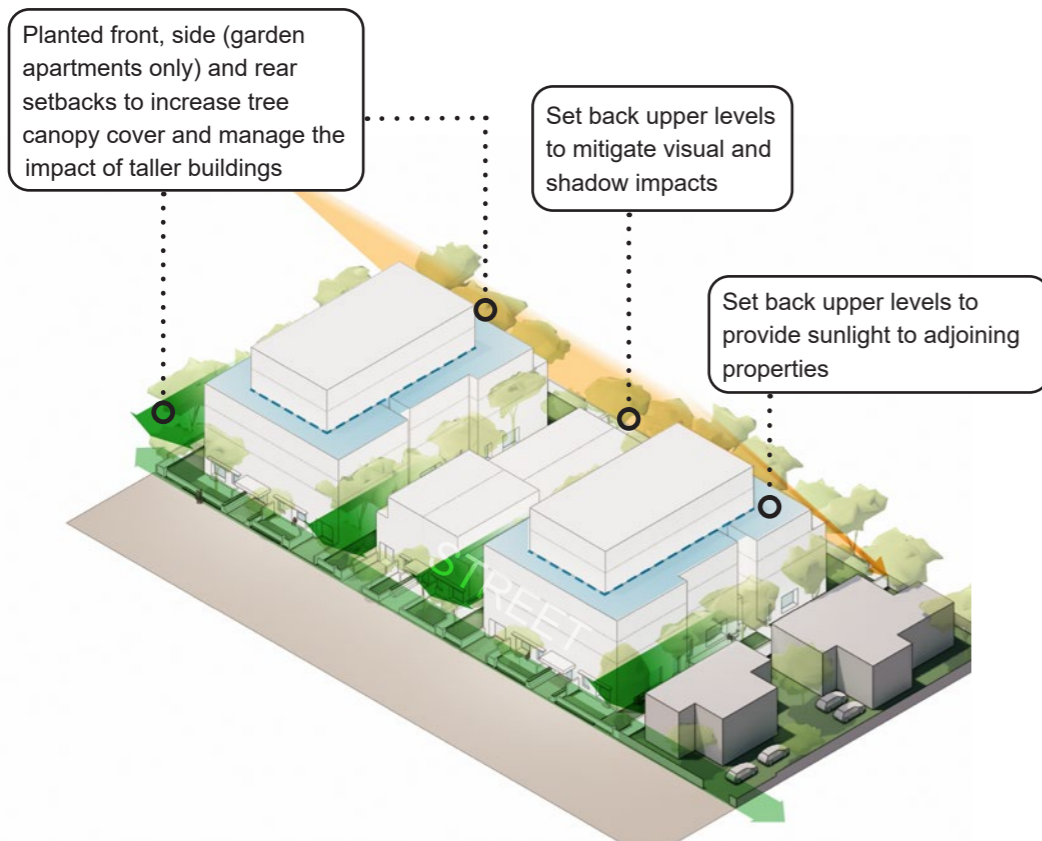


Figure 6.42: Built form outcomes for Residential Neighbourhoods

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing recommended at the edges Pennydale Park, Train Street Playground and Amberley Park will maintain solar access to 50 per cent of the open space for a minimum of 3 hours at mid-winter. The only exception to this is Tulip Grove Playground which will achieve a 30 per cent solar access for a minimum of 3 hours at mid-winter with the recommended building scale and massing, which would be acceptable providing short distance to Sir William Fry Reserve and Pennydale Park.

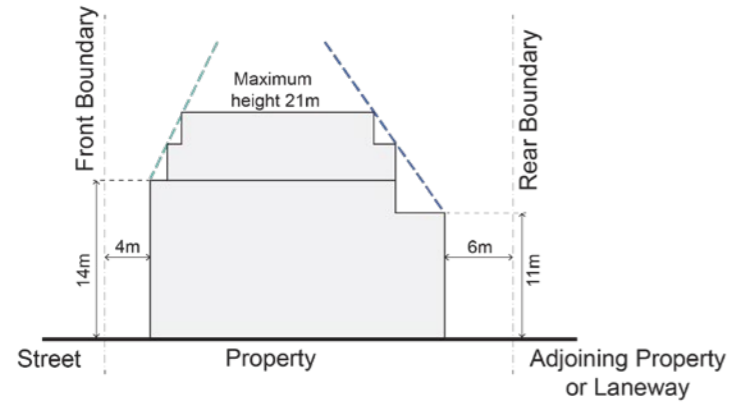
The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Key Movement Corridors, Urban Neighbourhoods and Residential Neighbourhoods.

Summary of built form outcomes

The built form outcomes for the garden apartment and townhouses are summarised below.

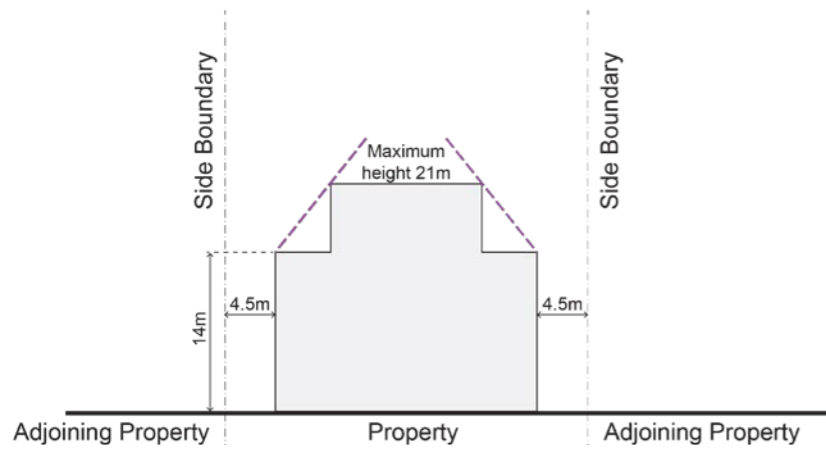
Lots equal to or greater than 24 metres in width (Garden apartments)	
Building height and density	
Maximum height	21 metres (6 storeys)
Maximum height - Sensitive,isolated or constrained areas	14 metres (4 storeys)
Maximum density	2:1
Maximum density - Sensitive,isolated or constrained areas	1.5:1
Street Wall	
Maximum height	14 metres (4 storeys)
Maximum height - Sensitive,isolated or constrained areas	11 metres (3 storeys)
Activation	Passive surveillance
Building setbacks	
Street	4 metres, landscaped
Side street	4 metres, landscaped
Above street wall	Additional 0.5 metres per metre of height above 14 metres
Side (including where abutting public open space)	4.5 metres landscaped plus 0.8 metres per metre of height above 14 metres
Rear - adjacent to developable property	6 metres landscaped plus 0.7 metres per metre of height above 11 metres
Rear - abutting public open space	6 metres landscaped plus 0.7 metres per metre of height above 14 metres
Lots less than 24 metres in width (townhouses)	
Building height and density	
Maximum height	11 metres (3 storeys)
Maximum density	1.2:1
Street wall - street and side street	
Maximum height	11 metres (3 storeys)
Activation	Passive surveillance
Building setbacks	
Street	4 metres landscaped
Side street	2 metres landscaped
Side - Front half of the site adjacent to developable property	Zero metres up to a height of 6.9 metres, 2 metres above a height of 6.9 metres
Side - Front half of the site abutting public open space	2 metres
Side - Rear half of the site (including where abutting public open space)	2 metres plus 1 metre per metre of height above 6.9 metres
Rear - adjacent to developable property	6 metres landscaped plus 0.7 metres per metre of height above 11 metres
Rear – abutting public open space	6 metres landscaped plus 0.7 metres per metre of height above 14 metres

All lots		
Building separation		
Minimum building separation	9 metres	
Overshadowing		
Place type of neighbouring property	No. of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Key Movement Corridor, Urban neighbourhood	3 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Residential neighbourhood	4 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Residentially-zoned properties outside the Structure Plan Area	5 hours	40 square metres or 75 per cent of secluded private open space, whichever is the lesser



- Set back additional 0.7 metres per metre of height above 11 metres
- Set back additional 0.5 metres per metre of height above 14 metres

Figure 6.43: Garden apartment section front and rear



- Set back additional 0.8 metres per metre of height above 14 metres

Figure 6.44: Garden apartment section sides

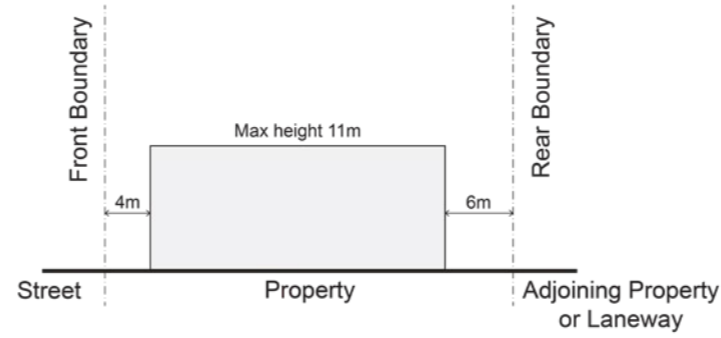


Figure 6.45: Townhouse section front and rear



Figure 6.48: The illustration shown on this page are typical only to illustrate potential outcomes

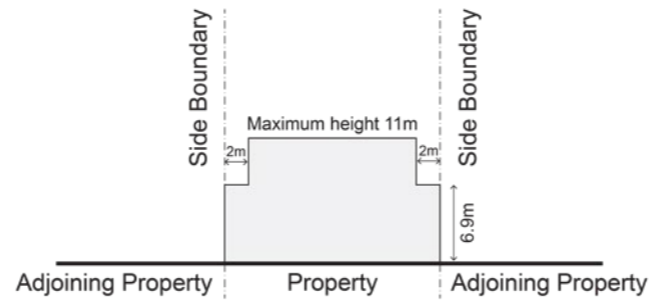
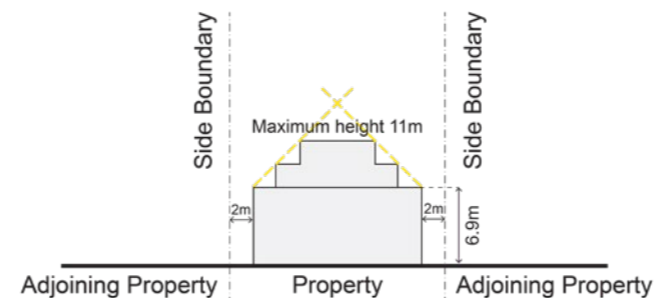


Figure 6.46: Townhouse section side interfaces in the front half of the site



- Set back additional 0.8 metres per metre of height above 14 metres







Figure 6.47: Townhouse section side interfaces in the rear half of the site

Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in the Residential Neighbourhoods. Realising this aspiration relies on urban development interventions and public realm projects that vary in scale and importance as outlined below.

Development

Development features creating an accessible and permeable Urban Neighbourhoods, as part of Design Direction 2: Promote active transport access.

-  Open space (new) - investigation area
-  Important key link - flexible
-  Important key link (improved widened)- fixed/flexible
-  Important key link - flexible
-  Local key link - flexible
-  Active frontages to open space

Public realm enhancements

Enhancements to deliver Design Direction 1: Ensure streets are inviting places that support community life.

-  Streetscape improvements - Green Street

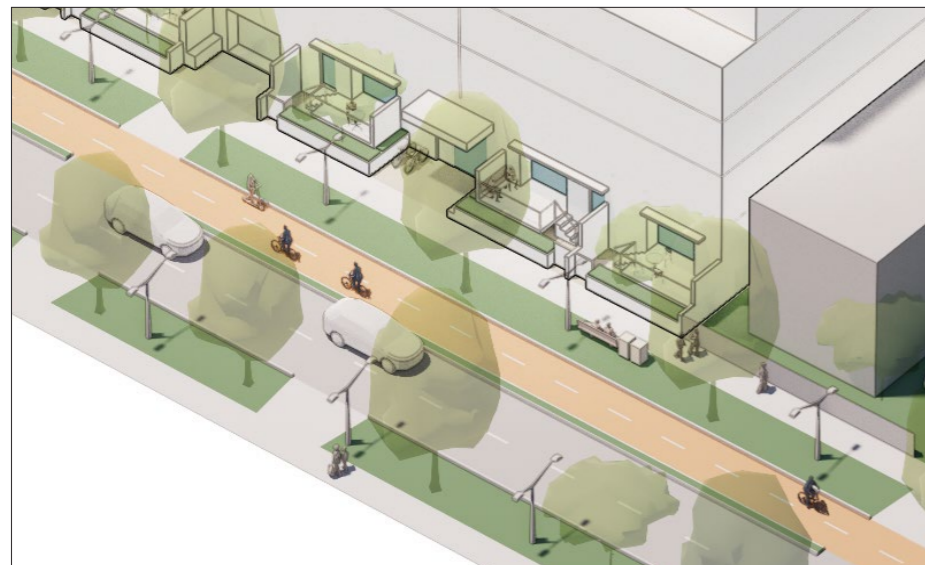


Figure 6.49: Indicative illustration showing a Green Street within a Residential Neighbourhood

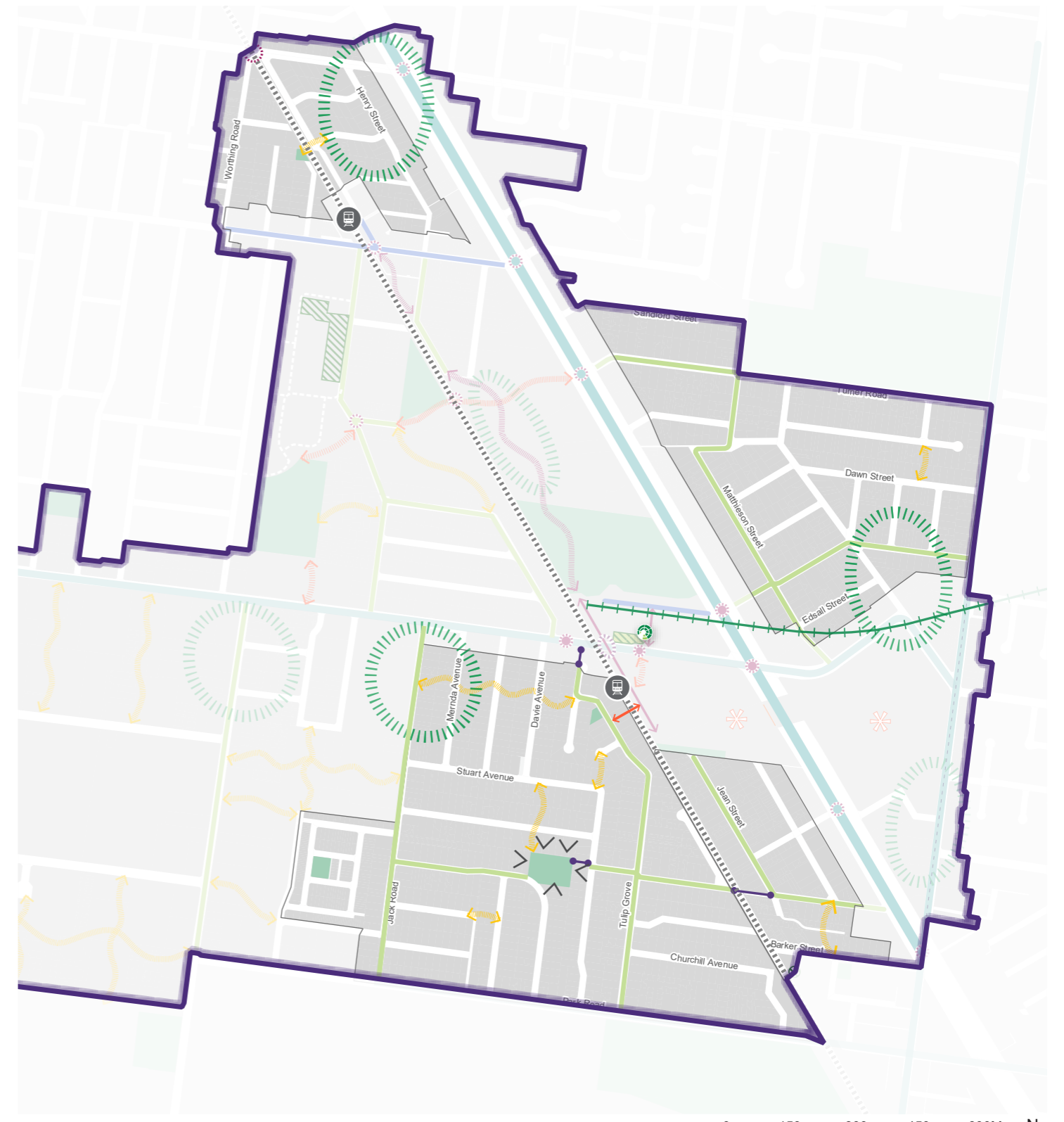


Figure 6.50: Public realm outcomes - Residential Neighbourhoods

Typical building and public realm profile

This cross-section shows a typical Residential building with typical street to provide an illustration of the future built form and public realm outcomes for this area.



Figure 6.51: Potential cross-section - Residential Neighbourhoods

6.8 Employment Growth

The urban form area identified as belonging to this place type is:

- S– Bayside Business District- Wangara Road.

Future role and function

Opportunity site which requires additional investigation

This urban form area has the potential to act as a catalyst for transformation by providing substantial growth and demonstrating best practice development. However, it has particular opportunities and constraints that will require further investigation to understand its development potential.

Future drivers

Enhance landscape character and amenity

This urban form area provides an opportunity to upgrade the appearance and amenity of the streetscape through a landscaped front setback. Additionally, there is an opportunity for a moderate level of tree canopy cover to contribute to the area's environmental performance and local amenity.

Moderate level of activation to the street

There will be a higher level of pedestrian activity in this urban form area as a result of people walking and cycling along Bay Road. Therefore, it is critical that a good level of street activation is provided to ensure safety, consistent with the SRL Urban Design Strategy Objectives *Activation* and *Safer design*.

Future urban form

New local flexible links proposed in the Employment Growth area to increase permeability of the urban block structure through future developments. Reserve Road is proposed to be upgraded to Green Street to support active transport and contribute to the urban biodiversity. A public open space investigation area is proposed in this urban form area to fill the public open space gap south of Bay Road.

The Employment Growth area will be developed into a mid-rise character with buildings approximately 8 storeys high, within a landscape setting. Lower building heights will present to the sensitive western edges where low-rise residential land lies beyond. Street walls should balance spatial definition, sense of openness and solar access to the street. Street and side setbacks should be wide to provide for canopy trees and reasonable amenity of abutting properties.

Built form outcomes

The development type recommended in the Employment Growth place type is large freestanding building. This development type provides the large floor plates typically required for employment uses. Its moderate building height contributes to memorable, well-framed spaces with good amenity. The large area of these industrial lots in the Bayside Business District provides an opportunity for these larger footprint buildings and generous tree planting.

Through site links

The industrial lots in this urban form area are typically large, and can form barriers in the local movement network. Therefore, their development should incorporate new links to repair the network, as shown in the Public Realm Framework in Section 3.4 and in accordance with Design Direction 2: Promote active transport.

Building height and density

Buildings up to 8 storeys are appropriate on these sites given their use and large area.

This typology commonly incorporates varied heights including occasional 'punctuation' buildings with modest increases in height. This range of heights would deliver a density in the order of 4:1

In sensitive areas and small lot sizes, the maximum building height is reduced to 24 metres (6 storeys) to maintain the amenity of adjacent properties.

Street wall height

The maximum street wall height is proposed to be 24 metres, to balance spatial definition and a sense of openness, and to maintain solar access in the streets, in accordance with Strategy BF12: Rear amenity plane. Maximum street wall height in sensitive areas interfacing George Street is reduced to 21 metres.

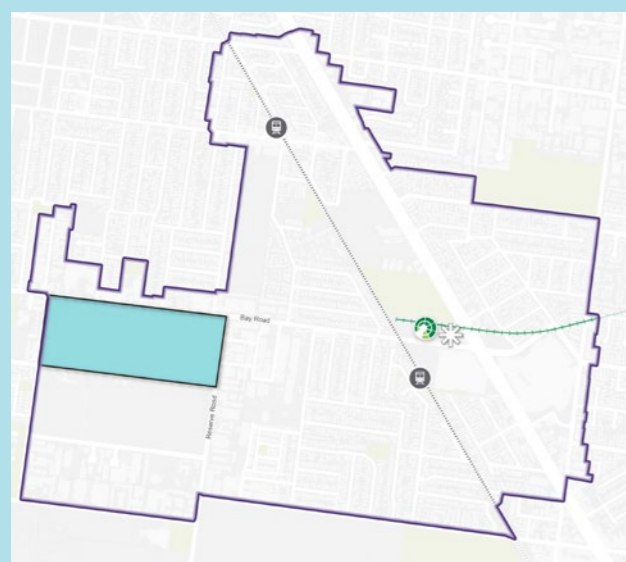


Figure 6.52: Key Map - Employment Growth



Figure 6.53: Example of the form of development envisaged for Employment Growth

Building setbacks

The following indicative minimum setbacks are proposed for lots wider than 35 metres.

- A 6-metre street setback to the street walls, to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- An additional 6 metres above the street wall to maintain a sense of openness and solar access, in accordance with Strategy BF12: Rear amenity plane
- A 6-metre setback from any directly abutting properties, to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping, and to ensure reasonable amenity for building occupants and maintain equitable development opportunities for neighbouring properties.

The following side and rear setbacks are proposed for lots narrower than 35 metres to allow for a viable floor plate for this typology:

- A minimum 4 metres street setback to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- At least 70 per cent of the front lot width should have a minimum 4 metres and maximum 5 metres street setback to frame the public realm and support public realm activation, in accordance with strategies BF6: Street scale and BF7: Engaging facades – this allows the remaining 30 per cent of the lot width to accommodate loading and parking if required
- A zero side or rear setback.

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing recommended at the edges of Wangara Reserve will maintain 70 per cent solar access to this space for a minimum of 3 hours at mid-winter.

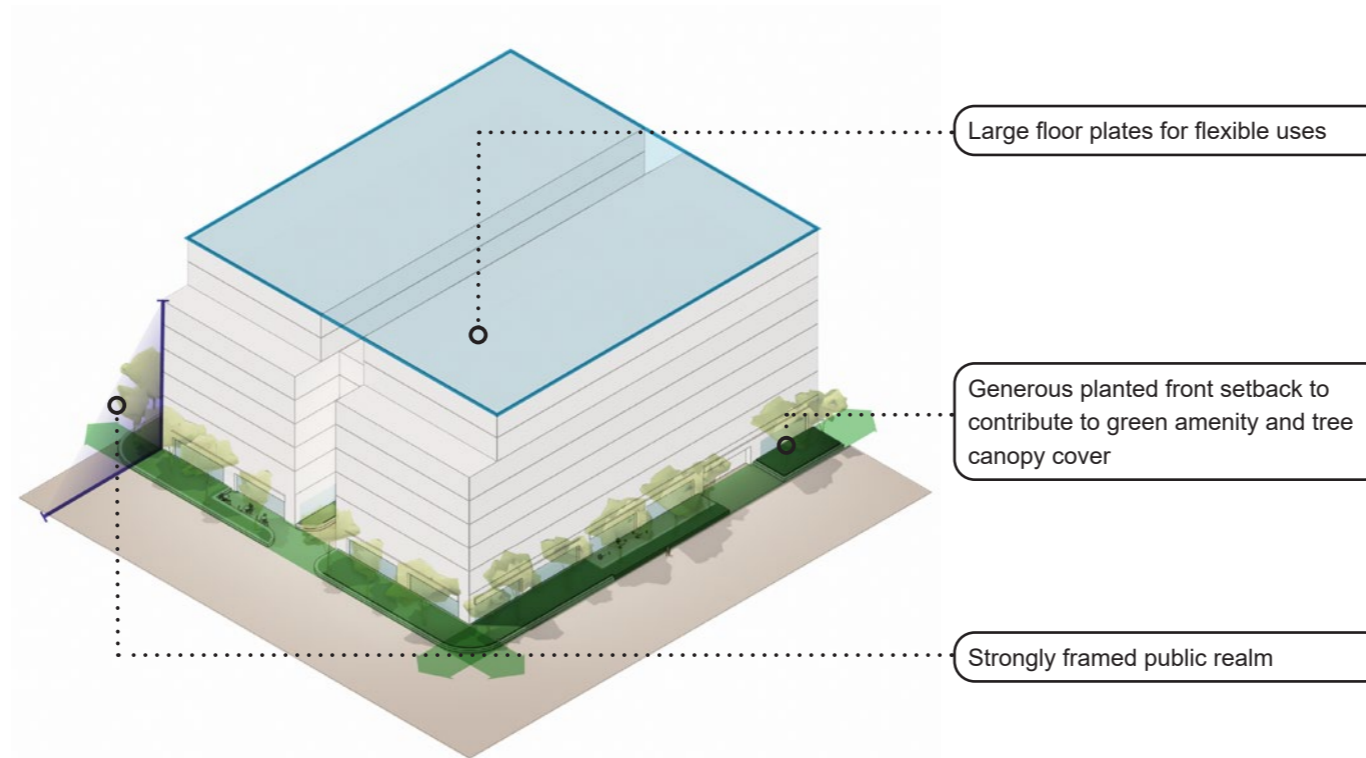


Figure 6.54: Built form outcomes for Employment Growth typology.



Figure 6.55: Built form outcomes section - front to rear

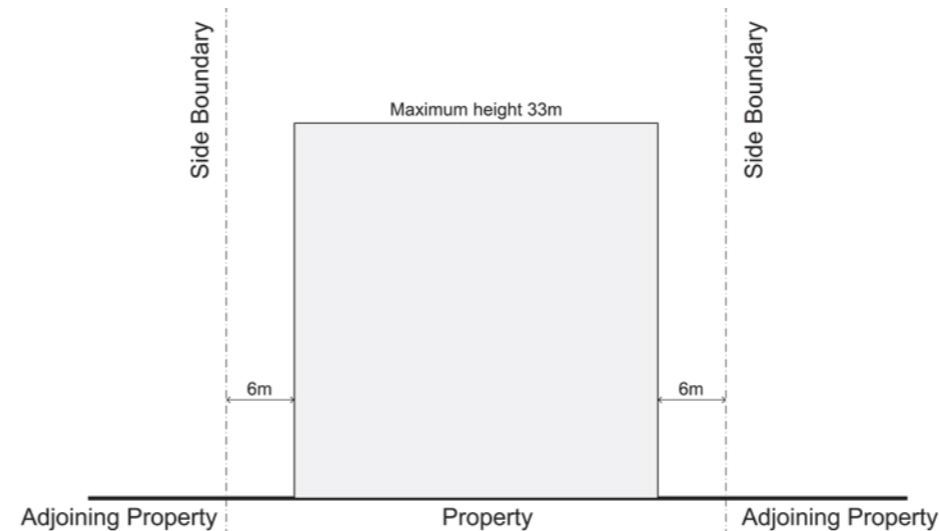


Figure 6.56: Built form outcomes section - side to side

Summary of built form outcomes

The built form outcomes for the 'large freestanding building' development type are summarised below.

Building height and density		
Maximum height	33 metres (8 storeys)	
Maximum height-Sensitive areas or lots narrower than 35 metres	24 metres (6 storeys)	
Maximum density	4:1	
Street Wall		
Maximum height	24 metres (6 storeys)	
Maximum height-Sensitive areas	21 metres (5 storeys)	
Building setbacks		
Minimum street	6 metres landscaped, +6 metres above street wall	
Minimum street-for lots narrower than 35 metres	4 metres	
Maximum street-for lots narrower than 35 metres	5 metres	
From abutting properties	6 metres, landscaped	
From abutting properties-for lots narrower than 35 metres	0	
Overshadowing		
Place type of neighbouring property	Number of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Outside the Structure Plan Area	5 hours	40 square metres or 75 per cent of secluded private open space, whichever is the lesser



Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in Employment Growth urban form areas. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.

Public realm enhancements


Enhancements to deliver

Design Direction 1: Ensure streets are inviting places that support community life.

-  Streetscape improvements (Green Street typology)
-  Local key link - flexible

Development

Development features creating an accessible and permeable Urban Neighbourhoods, as part of Design Direction 4: Facilitate outdoor recreation

-  Open space (new) - investigation area

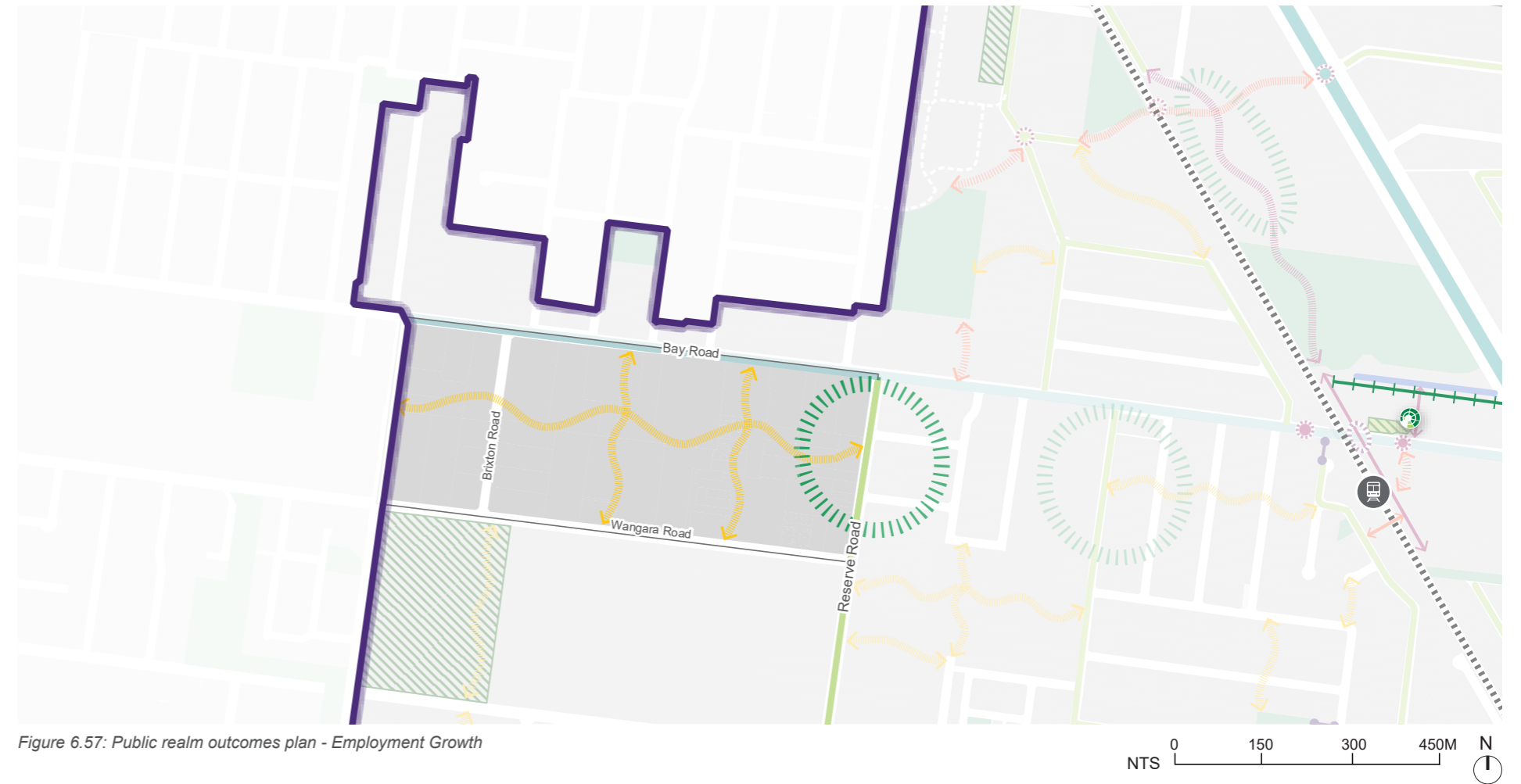





Figure 6.57: Public realm outcomes plan - Employment Growth

Legend

-  SRL station
-  Existing Southland Station
-  Structure Plan Area
-  SRL East alignment
-  Urban form area boundary

Typical building and public realm profile

This cross-section shows a large freestanding building with a typical street to provide an illustration of the future built form and public realm outcomes for this area.

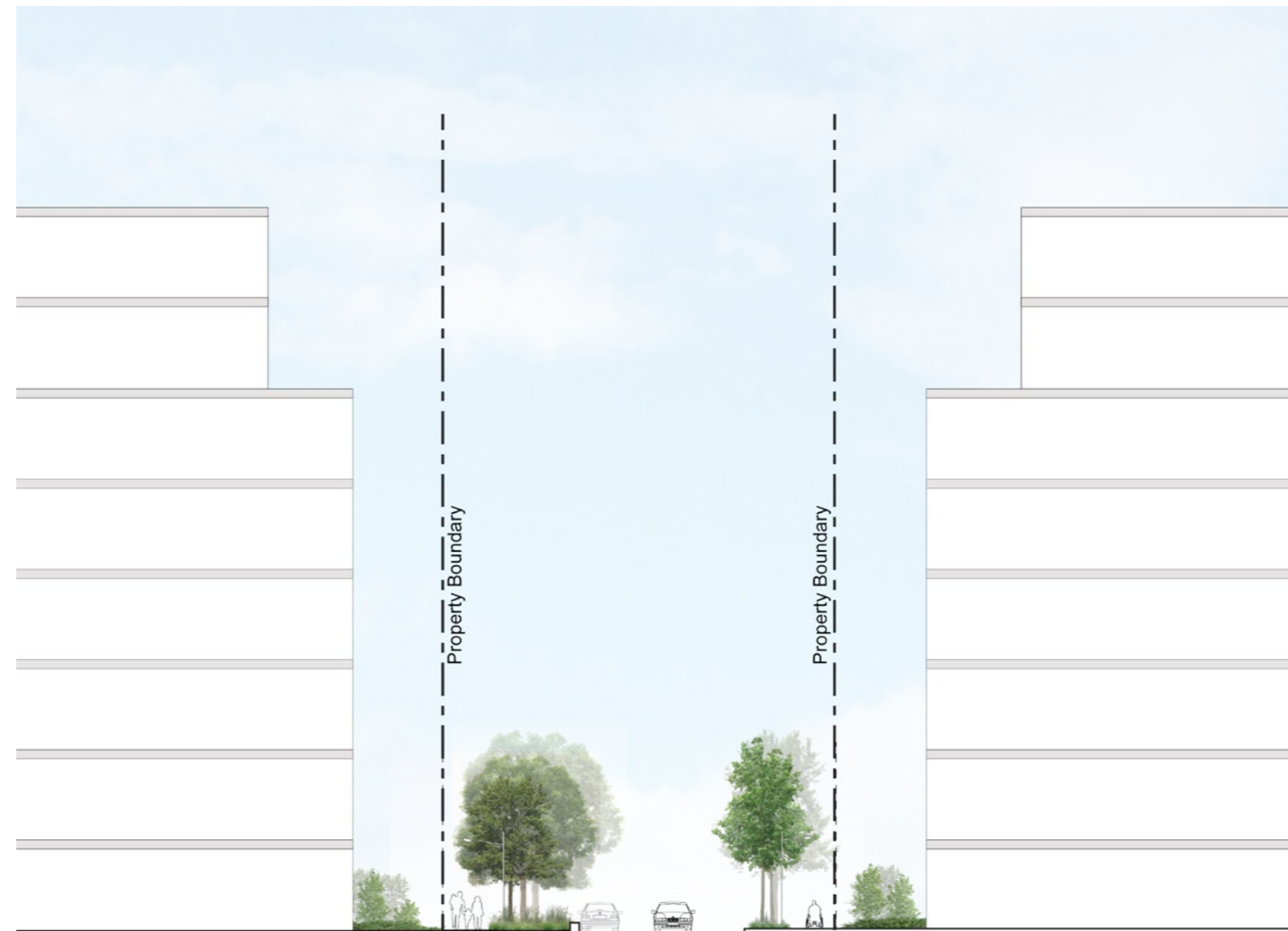


Figure 6.58: Potential cross-section - Employment Growth

6.9 Enterprise Neighbourhoods

The urban form area identified as belonging to this place type include:

- O – Bay Road Business District-south
- P – Advantage Road.

Future role and function

Moderate intensification of built form providing space for jobs growth

These urban form areas currently host predominantly light industrial uses. However, given their proximity to the SRL station at Cheltenham, they offer the potential for higher-order employment uses delivering a higher jobs density.

Future drivers

Enhance landscape character and amenity within the street

It is important to upgrade the appearance and amenity of the streetscape to attract higher-order businesses. Development can contribute to this through landscaped front setbacks.

Maintain sense of openness in the street

It is important to upgrade the amenity of the streetscape to attract higher-order businesses. Development can contribute to this through moderately activated building frontages.

Future urban form

A new grid of local links are proposed within the Enterprise Neighbourhoods south of Bay Road to increase permeability within the existing urban structure and integrate it to the surrounding road network. Enhancements proposed to Bay Road and Jack Road to achieve wide and tree-lined 'connector' streets that accommodate active and/or public transport with nodes of pedestrian amenity to create places for people to move and dwell. A public open space investigation area is proposed in this urban form area to fill the public open space gap south of Bay Road.

The Industrial Area is anticipated to be developed into low-rise employment use buildings which will maintain solar access to the public realm, although proposals for mid-rise buildings should be welcomed provided they will not detract from the vibrancy of the commercial/retail core. A landscaped street setback will enhance the public realm experience whilst ensuring passive surveillance.

Figure 6.59: Key Map - Enterprise Neighbourhood

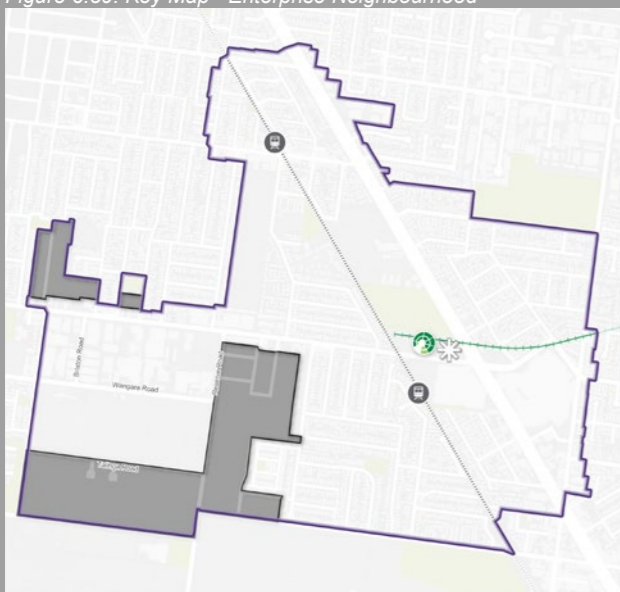


Figure 6.60: Future character precedent images



Built form outcomes

The development type recommended in the Enterprise Neighbourhoods is the hybrid employment.

This development type can host a wide range of employment uses. It can take the form of a freestanding building on larger or amalgamated lots, or a boundary-to-boundary infill building on narrower lots.

Importantly, the development type positions loading and servicing activities away from the street frontage, and instead addresses the street with its most active uses and incorporates a modest landscaped setback. This will contribute to a more inviting streetscape, attracting new businesses to the area. This typology provides a 5 to 10 per cent deep soil area at the front of the lot.

The Urban Form Outcomes for the hybrid employment development type are summarised below.

Building height and density

The height of development only needs to be limited by a solar plane to protect the amenity of the opposite footpath. It is envisaged that most development will be in the order of 9 metres (2 storeys) high. However, taller buildings of 24 metres (6 storeys) should be welcomed provided they will not detract from the vibrancy of the Central Core urban form area. In sensitive areas a maximum building height of 15 metres (4 storeys) is proposed for Enterprise Neighbourhoods.

However, economic analysis indicates that development in this area is likely continue to be aligned with the existing light industrial pattern and remain in the order of 8 metres (2 storeys) for the foreseeable future.

Street wall height

Maximum street wall height of 12 metres (3 storeys) is proposed for Enterprise Neighbourhoods at the interfaces with Tibrockney Street and Beaumaris Parade due to the sensitive residential interfaces.

No street wall height is proposed for other street interfaces of this place type.

Building setbacks

The following setbacks are proposed:

- A minimum 4 metres street setback to provide for canopy trees, in accordance with Strategy BF14: On-site landscaping
- At least 70 per cent of the front lot width should have a minimum 4 metres and maximum 5 metres street setback to frame the public realm and support public realm activation, in accordance with strategies BF6: Street scale and BF7: Engaging facades – this allows the remaining 30 per cent of the lot width to accommodate loading and parking if required
- A rear setback equal to the height above ground floor level where abutting properties where dwellings are permissible, to manage visual impacts in accordance with Strategy BF11: Building orientation.

Overshadowing

The recommended building scale and massing will achieve the recommended solar access standard to ensure good amenity in the public realm and to complement the existing character of typical streets. The solar access standard recommended will maintain sunlight to southern, eastern and western footpaths in typical streets at the September equinox. This is considered to strike an appropriate balance between solar access and providing for growth.

The building scale and massing will also limit additional shadow to private open space in the rear setbacks of properties in Residential Neighbourhoods.

Additional guidelines

The following additional provisions are proposed to contribute to an appealing public realm, in accordance with Strategy BF6: Street scale:

- Locate vehicle access at the rear or side of the lot where possible. If this is not possible, minimise the crossover width
- Position office and/or showroom uses at the front of the building
- Provide a dedicated and legible pedestrian access direct from the street
- Locate car parking, loading areas, truck queuing and parking, and outdoor storage areas within, to the side or to the rear of the building
- Avoid front fences. Where this is not possible, ensure they are of good design quality, visually permeable, and softened by landscaping.

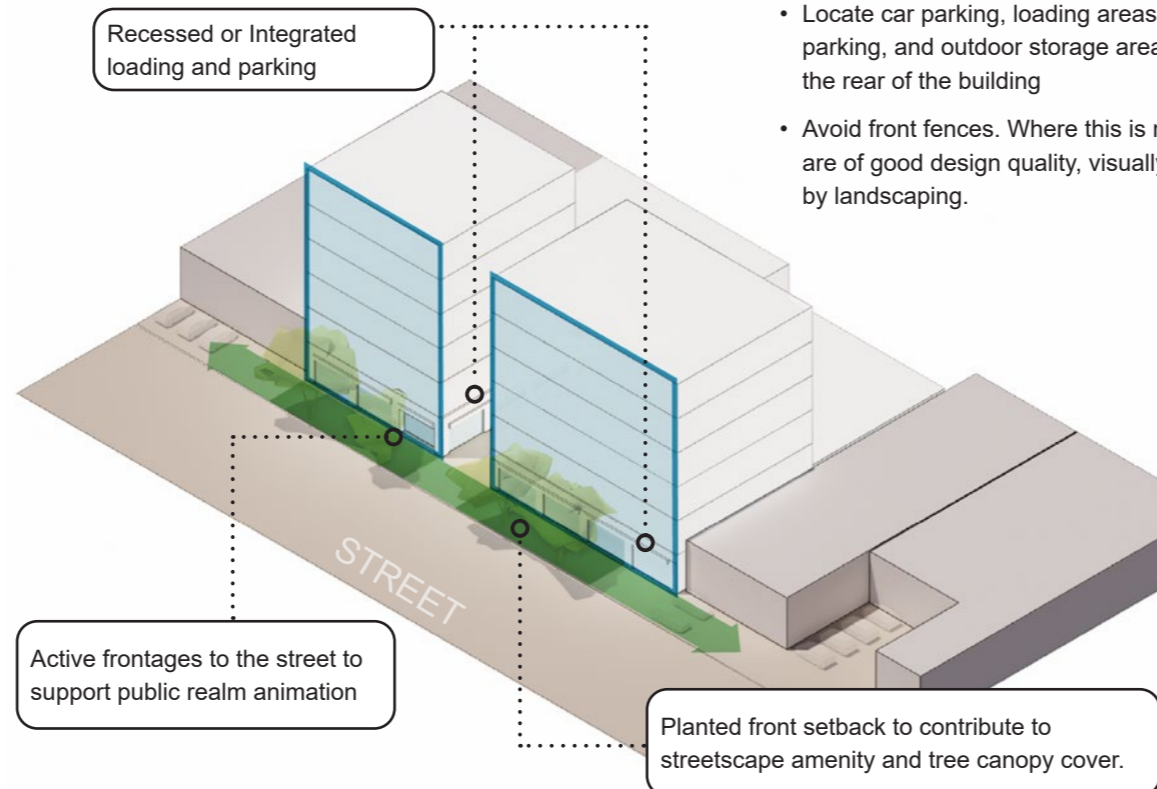


Figure 6.61: Built form outcomes for the hybrid Enterprise Neighbourhoods

Summary of built form outcomes

The built form outcomes for the Enterprise Neighbourhood development type are summarised below.

Building height and density		
Maximum height	24 metres (6 storeys)	
Maximum height- Sensitive areas	15 metres (4 storeys)	
Street wall		
Street wall height- Avoca Street Tibrockney Street and Beaumaris Parade	12 metres (3 storeys)	
Activation	Moderate	
Building setbacks		
Street - minimum	4 metres	
Street - maximum	5 metres for 70 per cent of the lot width	
Upper-level side and rear	1 metre for every metre above ground floor where abutting a property where dwellings are permissible	
Overshadowing		
Place type of neighbouring property	Number of hours between 9am and 3pm at the September equinox during additional shadow is to be avoided	Minimum area of open space to which additional shadow is to be avoided
Key Movement Corridor, Urban Neighbourhood	3 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Residential Neighbourhood	4 hours	40 square metres or 75 per cent of any open space in a rear setback, whichever is the lesser
Outside the Structure Plan Area	5 hours	40 square metres or 75 per cent of secluded private open space, whichever is the lesser

Typical building and public realm profile

This cross-section shows an enterprise neighbourhood building with a typical street to provide an illustration of the future built form and public realm outcomes for this area.

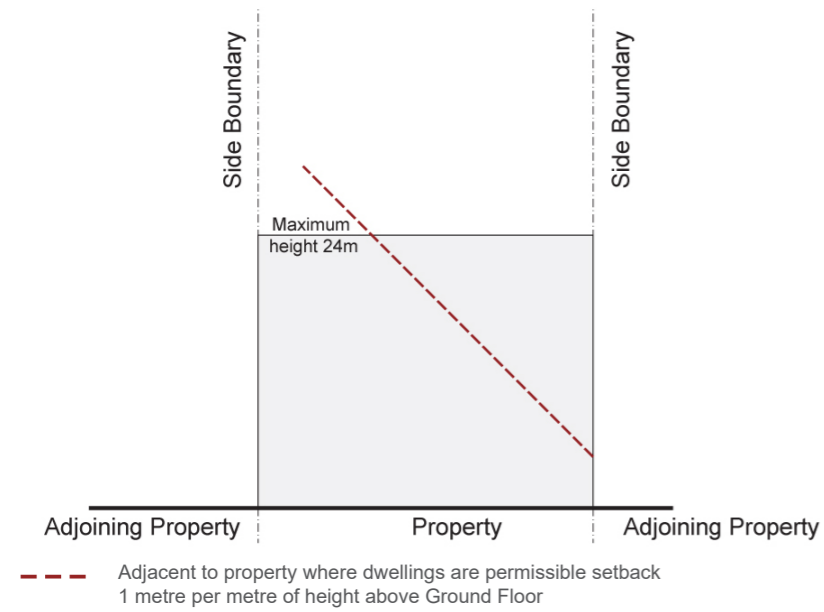


Figure 6.62: Built form outcomes section - side to side

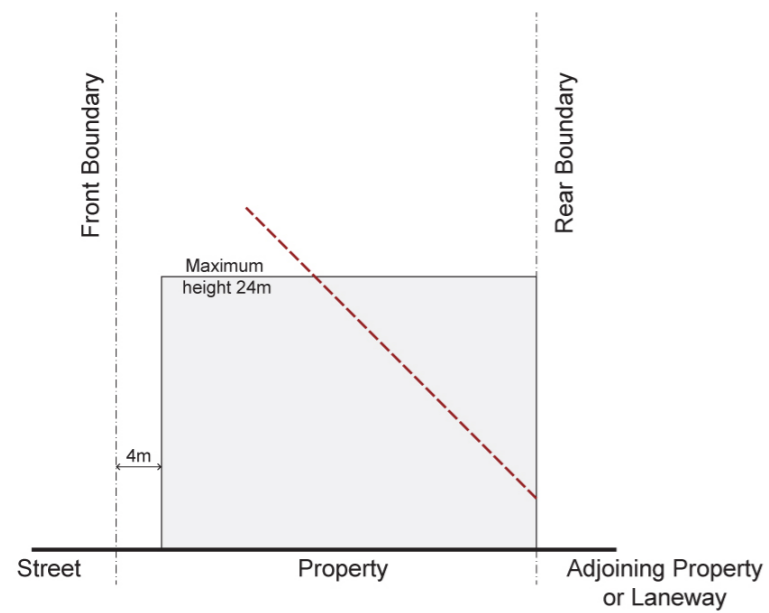


Figure 6.63: Built form outcomes section - front to rear

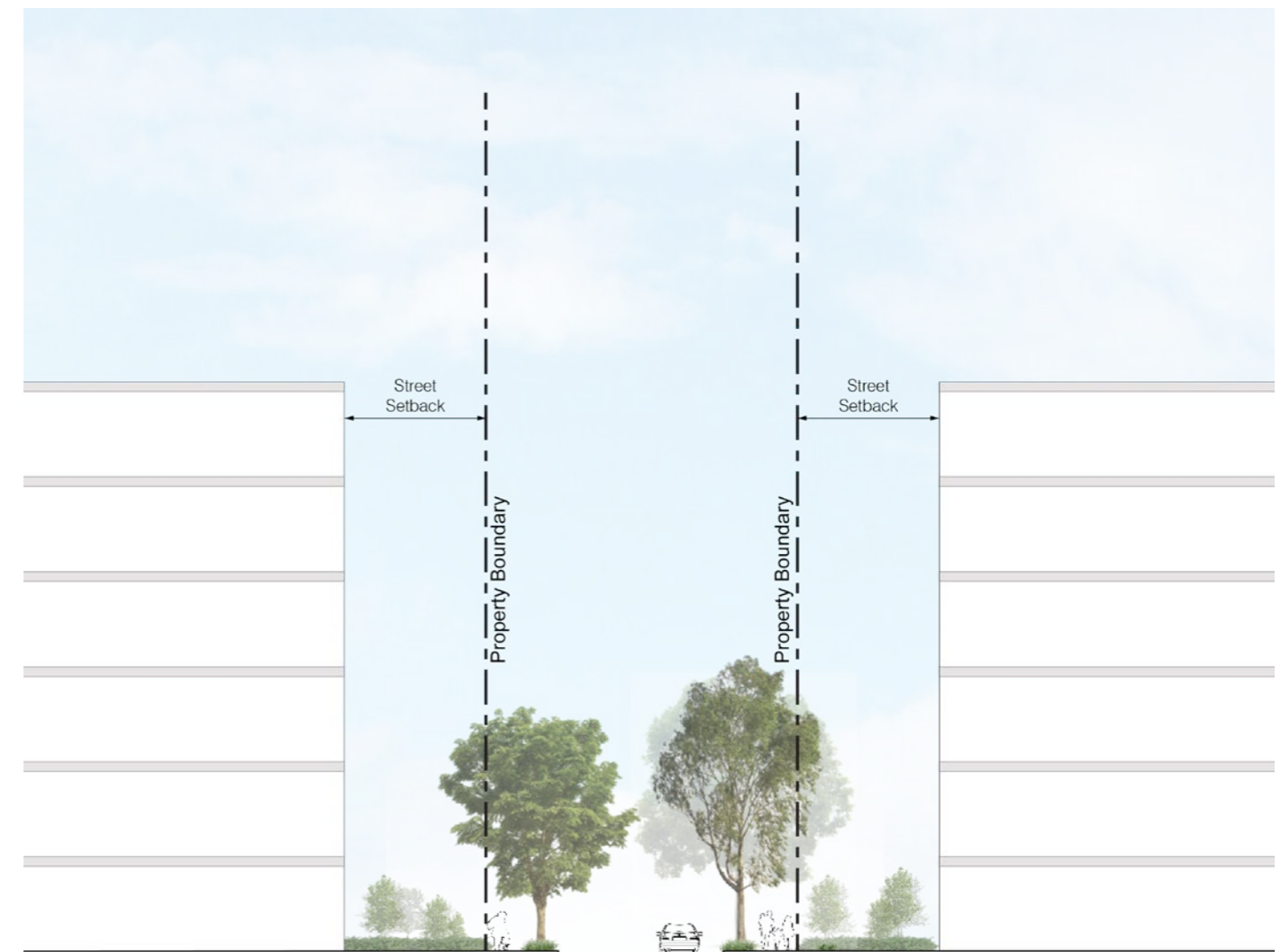


Figure 6.64: Potential cross-section - Enterprise Neighbourhoods



Public realm outcomes

The Public Realm Framework identifies the future aspiration for the public realm in Enterprise Neighbourhoods. Realising this aspiration relies on development and public realm projects that vary in scale and importance as outlined below.

Public realm enhancements


Enhancements to deliver

Design Direction 1: Ensure streets are inviting places that support community life.

-  Streetscape improvements (Green Street typology)
-  Local key link - flexible

Development

Development features creating an accessible and permeable Urban Neighbourhoods, as part of Design Direction 4: Facilitate outdoor recreation.

-  Open space (new) - investigation area

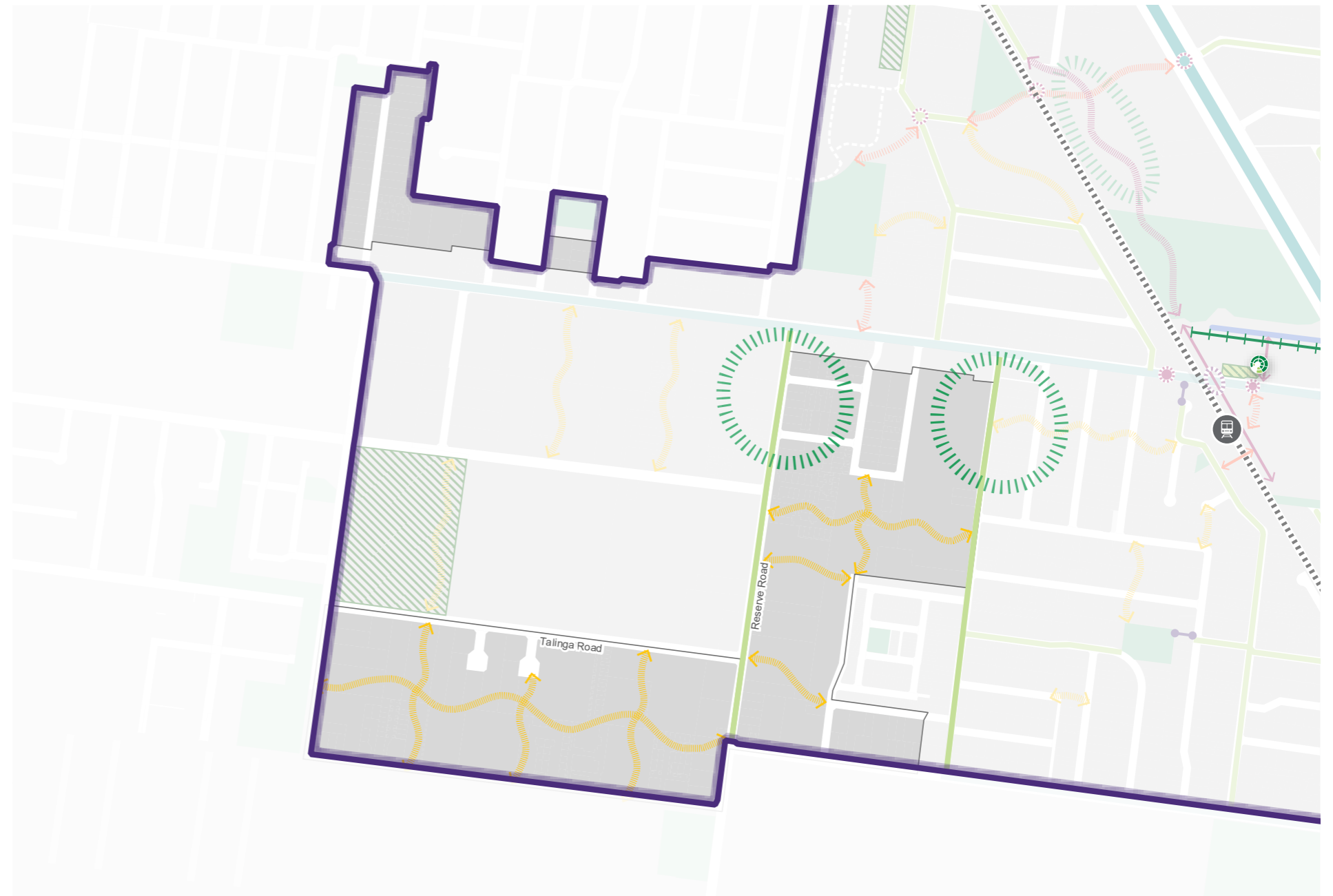







Figure 6.65: Public realm outcomes plan - Enterprise Neighbourhoods



Legend

-  SRL station
-  Existing Southland Station
-  Structure Plan Area
-  SRL East alignment
-  Urban form area boundary

6.10 Strategic Sites

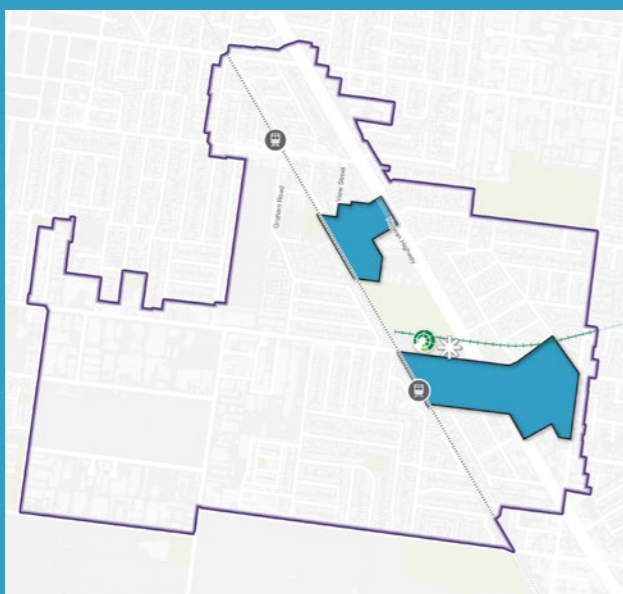
Strategic Sites have increased capacity for intensification and strong potential to deliver SRLA policy objectives and/or public benefit outcomes.

The Strategic Sites in Cheltenham:

- F – Highett Gasworks
- T – Southland Shopping Centre
- Station development area.

Refer to Section 4.5 for a detailed description of these urban form areas.

Figure 6.66: Key Map - Strategic Sites



What is a Strategic Site?

Strategic Sites have increased capacity for intensification and strong potential to deliver SRLA policy objectives and/or public benefit outcomes.

A Strategic Site should meet at least two of the below criteria:

- Complexity of issues to resolve including land use, built form, movement that require a bespoke planning control or process to achieve desired outcomes
- Opportunity for strategic public benefit (including significant contribution towards housing or employment growth) and/or support Government policy outcomes, that would be lost if the site was not clearly identified as strategic
- Capacity and scale – ability for significant investment or benefit to be unlocked within the lifespan of the Structure Plan (i.e. by 2041).

Strategic Sites that meet the criteria and require the application of bespoke planning controls to provide direction on their future development and are as follows:

- F – Highett Gasworks
- T – Southland Shopping Centre
- Station development area.

These sites are shown on the Urban Form Framework plan in Section 4.

Station Development Areas

In these areas future development is proposed on land surplus to SRL East operations in the core of the Structure Plan Area. These sites will include adjacent or over SRL station and station buildings that leverage the high level of accessibility and services available by directing intensified built form closest to the SRL station at Cheltenham.

Former Highett Gasworks

Description

The Former Highett Gasworks is a Strategic Site and will become a higher-density residential neighbourhood with strategic active transport links and public realm which link to growth areas around Highett and Cheltenham Activity Centres.

Key elements and components

The Former Highett Gasworks Site will be rejuvenated through:

- Providing a safe and comfortable north-south strategic cycling route through the site to support broader connections to Highett Station to the north and Sir William Fry Reserve and the SRL station area to the south
- Providing a safe and comfortable east-west active transport link that connects Turner Road to Lyle Anderson Reserve, supported by new pedestrian crossings across the Nepean Highway. The link should anticipate a future grade separated active transport crossing of the Frankston rail line
- Providing a new public open space capable of accommodating a diverse range of active and passive recreational activities, as well as any movement function
- The development of the site should seek opportunities to enhance open space and biodiversity connectivity through the site
- Encouraging larger scale development that is responsive to the future medium scale character to the north
- Ensuring built form supports passive surveillance, provides a positive interface and allows for a good level of amenity to Sir William Fry Reserve and the new open space provided within the site
- Ensuring built form and public realm supports pedestrian permeability through the site and provides intuitive and convenient connections to the broader pedestrian movement network
- Celebrating the boiler house chimney, identifying it as a key landmark within the journey through the site.



Figure 6.67: Example of the form of development envisaged for the Former Highett Gasworks Site



Figure 6.68: Example an open space accommodating a variety of activities



Figure 6.69: The existing boiler house chimney



Figure 6.70: Former Highett Gasworks Site key ideas

Legend	
	Existing rail line
	Existing open space
	Former Highett Gasworks site boundary
	Preferred maximum building height 43m (12 storeys), with building heights tapering down to the northern and southern site interfaces to residential and open space uses.
	Nepean Highway interface Front setback - 3m landscaped setback Preferred maximum street wall height - 21m (5-6 storeys)
	North interface Front setback - 3m landscaped setback Preferred maximum street wall height - 14m (4 storeys)
	Residential interface
	Sir William Fry Reserve interface
	Critical key link (flexible) between SRL station, Sir William Fry Reserve and Former Gasworks Site
	Important key link (flexible) between Lyle Anderson Reserve, Turner Street and Highett Reserve to the east
	Proposed rail crossing
	Proposed signalled crossing
	Potential new public open space (investigation area)
	Boiler house chimney
	Key view lines
	Primary vehicle access to the site
	Potential vehicle access to the site

Southland Shopping Centre site

Description

Development on Southland Shopping Centre site will explore opportunities to increase permeability, engage with the surrounding area and enhance the public realm.

Key elements and components

The Southland Shopping Centre site will be rejuvenated through:

- Built form that activates ground floor edges and provides passive surveillance to the public realm and especially Bay Road, Southland Station, Karen Street and Chesterville Road
- Encouraging a positive and engaging built form interface between Southland Shopping Centre and the surrounding urban context through sleeving development, providing passive surveillance and internalising vehicle access and movement
- Providing taller built form that contribute to the creation of an identifiable centre and to reinforce important street/building corners which are highly visible from Nepean Highway and Bay Road approach
- Providing links through the Southland Shopping Centre to support convenient and direct connections with the broader pedestrian movement network. Direct and convenient ground level pedestrian connections should also be facilitated between the Southland Shopping Centre, Southland Station and the SRL station entry
- Ensuring built form and public realm creates an attractive ground-level sense of arrival to pedestrian entries into the Southland Shopping Centre
- Supporting existing and future cycling connections and seeking to minimise the potential for conflict with cyclists and vehicles
- Ensuring a positive building frontage to the north-south strategic cycling route along the Frankston rail line delivered as part of SRL, that provides an attractive interface that ensures ample space for pedestrian and cycle movement, and safe access to buildings
- Provide a safe and comfortable north-south strategic cycling route through the site that is commensurate and connected to the proposed cycle infrastructure to be provided as part of the SRL.



Figure 6.71: Example of the form of development envisaged for Station Core



Figure 6.72: Example of high quality open space with engaging interface from surrounding retail and community facilities

Overshadowing

No solar access standard is recommended for Jean Street Children's Playground as this will unreasonably reduce the provision for growth, due to the virtue of their configuration, relationship with surrounding development and nearby sunny spaces.

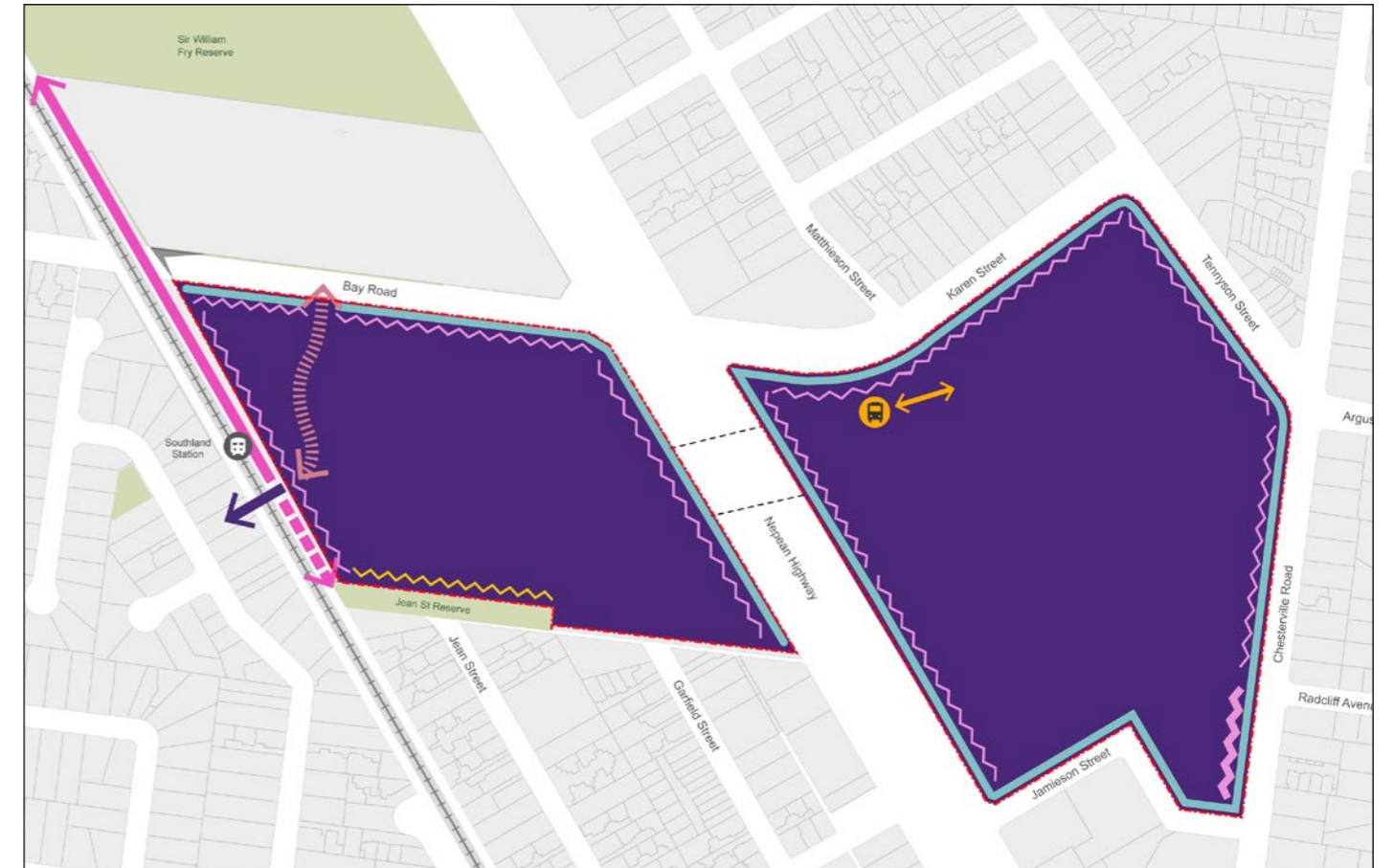


Figure 6.73: Southland Shopping Centre Strategic Site key ideas

Legend	
	Existing Southland Station
	Existing rail line
	Existing open space
	Site boundary
	Maximum building height 50- 60m (12-17 storeys)
	Southland interface Front setback - 3m landscaped setback Preferred maximum street wall height - 17m (4 storeys)
	Highly active frontage
	Moderately active frontage
	Jean Street Reserve interface
	North-south strategic cycling route as part of SRL
	North-south strategic cycling route through southland site
	Potential highly activated pedestrian links connecting to surrounding street network (indicative location)
	Existing bus interchange
	Potential pedestrian connection between bus interchange and key pedestrian links
	Important key link connecting Southland Shopping Centre site across the rail to Tulip Grove

6.11 Urban development typology testing

Calculating Floor Area Ratio (FAR)

An indicative Floor Area Ratio (FAR) was calculated for each urban development type based on 3D modeling on typical lot sizes within the relevant urban form areas.

The FAR was determined by calculating the total Gross Built Area (GBA) above ground level, measured from the outside of external walls, and includes all roofed areas (in accordance with GFA definition at Clause 73.01 of the VPP divided by the area of the site).

The envelope includes:

- All enclosed areas
- Covered balconies
- Services.

Voids associated with lifts, car stackers and similar service elements (considered as multiple floors of same height as adjacent floors) *The envelope does not include:*

- Basements
- Any uncovered communal outdoor areas.

This is consistent with the approach taken in the City of Melbourne.

As this report is focused on urban design outcomes, it seeks to understand the overall building volume that may be possible with each development type, and makes no assumptions about the degree to which this volume may be occupied by car parking.

Any calculation of usable residential or commercial floor areas would need to make appropriate adjustments to allow for car parking.

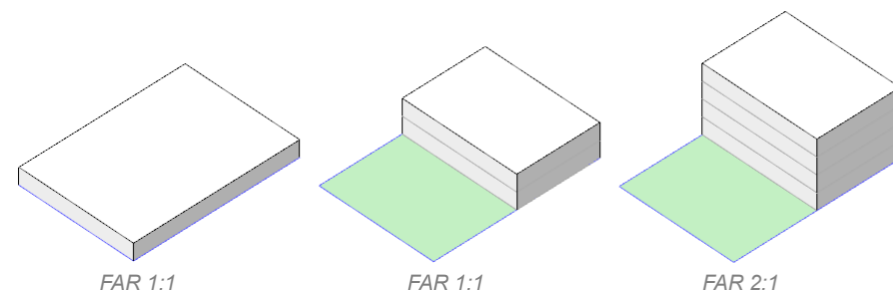
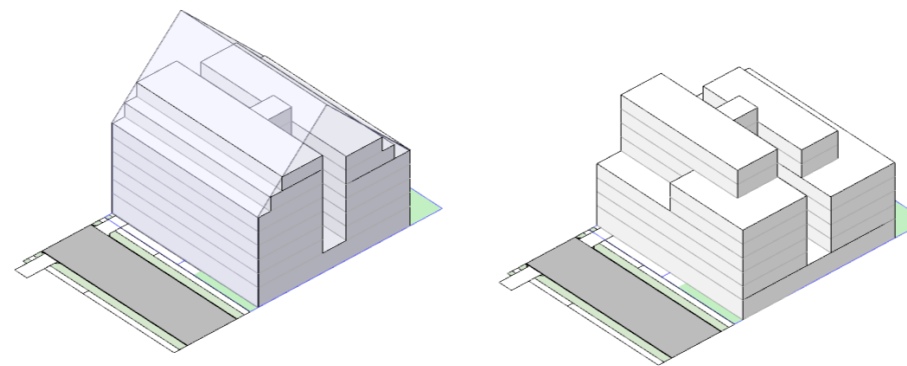


Figure 6.74: Floor area ratio (FAR) principle

Architectural articulation efficiency

A likely building volume was modeled within the maximum permissible envelope on each site based on the proposed maximum height and minimum setbacks, and the floor-to-floor assumptions in the building floor-to-floor heights table. Thereafter, 10 per cent of that FAR was deducted to allow for further architectural design flexibility and massing articulation, such as reducing the number of upper-level setbacks or adaption to specific site conditions.



Permissible building envelope

Architectural articulation reduces yield by 10 per cent

Figure 6.75: Architectural articulation principle

Floor height assumptions

The development types were defined according to current best-practice and compatibility with Clause 58 as a minimum standard.










Building floor-to-floor height	
Residential levels	3.2 metres
Residential ground floor (raised floor or high ceilings for adaptability)	4 metres
Commercial ground floor	4.5 metres
Commercial upper floor	3.8 metres (4 metres in purely commercial buildings)

Table 1-1 Floor height testing assumptions






6.12 Place type interfaces

This section illustrates the built form interfaces between different place types through a series of section drawings. The plan on this page indicates the location of each section.

Legend

-  Section line
-  SRL station
-  Existing train station
-  Structure Plan Area
-  SRL East alignment
-  Civic facilities and schools
-  Recently approved development plan
-  Strategic Site - Station development area
-  Sensitive, constrained or isolated areas

Place types

-  Central Core
-  Key Movement Corridors
-  Main Streets
-  Urban Neighbourhoods
-  Strategic Sites
-  Residential Neighbourhoods
-  Employment Growth
-  Enterprise Neighbourhood

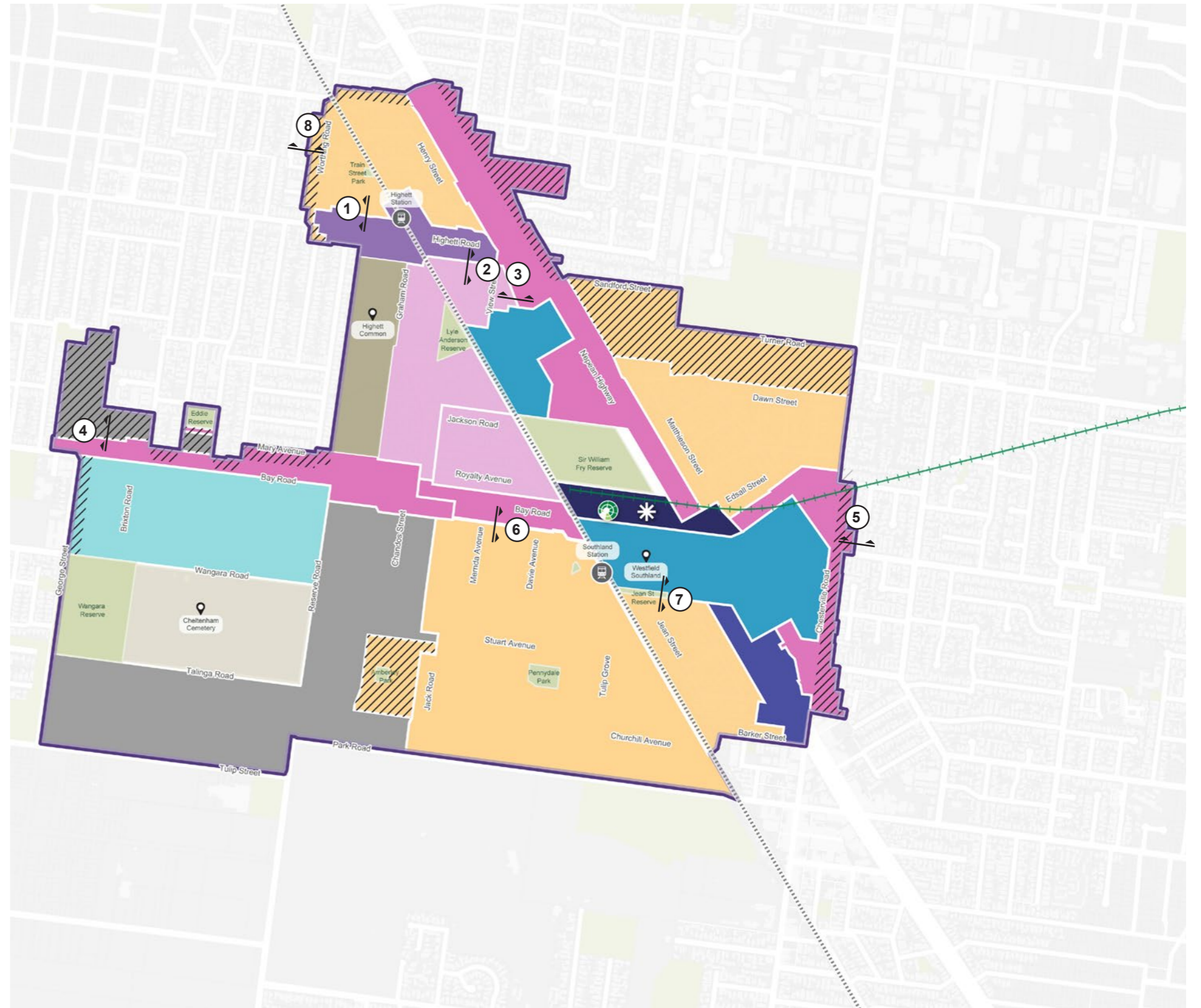
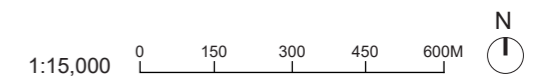


Figure 6.76: Place type interface



① **Main Streets to Residential Neighbourhoods**

- Set back additional 0.7 metres per metre of height above 11 metres
- Adjacent Residential Neighbourhoods setback additional 0.7 metres per metre of height above 5 metres up to a maximum of 15 metres



Figure 6.77: Interface section 1. Typical interface section indicative only

② **Main Streets to Urban Neighbourhoods**

- Set back additional 0.7 metres per metre of height above 11 metres



Figure 6.78: Interface section 2. Typical interface section indicative only

③ **Key Movement Corridor to Urban Neighbourhoods**

- Set back additional 0.7 metres per metre of height above 11 metres

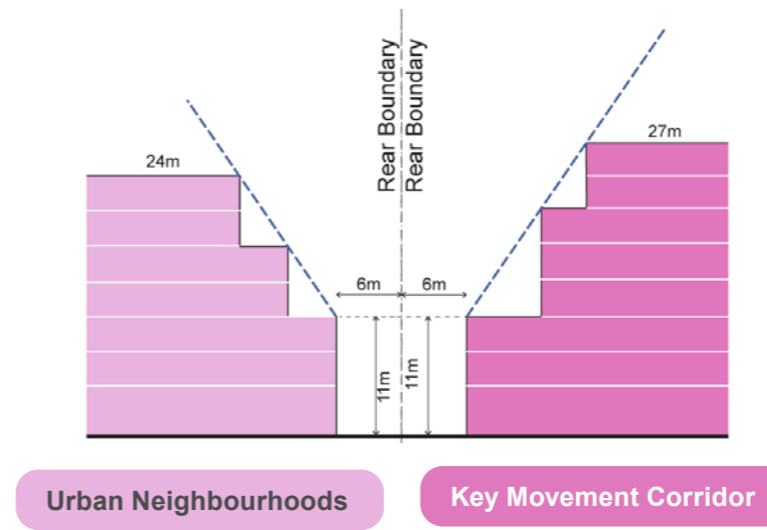


Figure 6.79: Interface section 3. Typical interface section indicative only

④ **Key Movement Corridor to Enterprise Neighbourhoods**

- Set back additional 0.7 metres per metre of height above 11 metres
- Adjacent to property where dwellings are permissible setback 1 metre per metre of height above Ground Floor

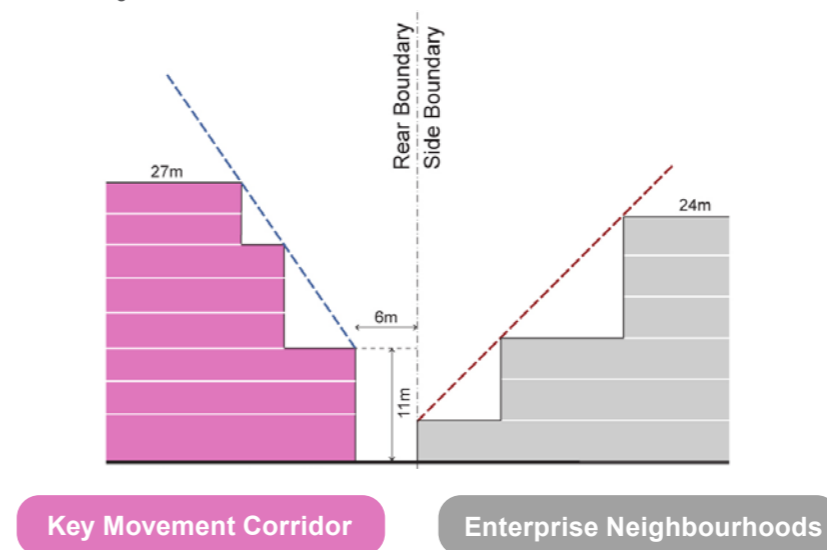


Figure 6.80: Interface section 4. Typical interface section indicative only

5 Key Movement Corridor to residential land outside Structure Plan Area

--- Set back additional 0.7 metres per metre of height above 11 metres

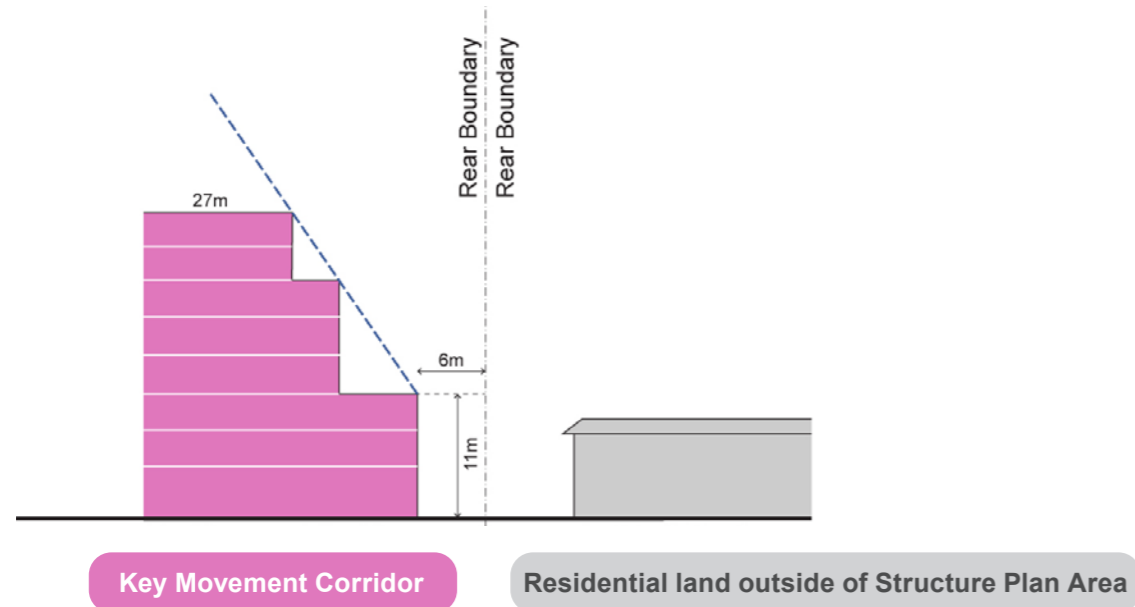


Figure 6.81: Interface section 5. Typical interface section indicative only

6 Key Movement Corridors to Residential Neighbourhood

--- Set back additional 0.7 metres per metre of height above 11 metres
 --- Set back additional 0.8 metres per metre of height above 14 metres

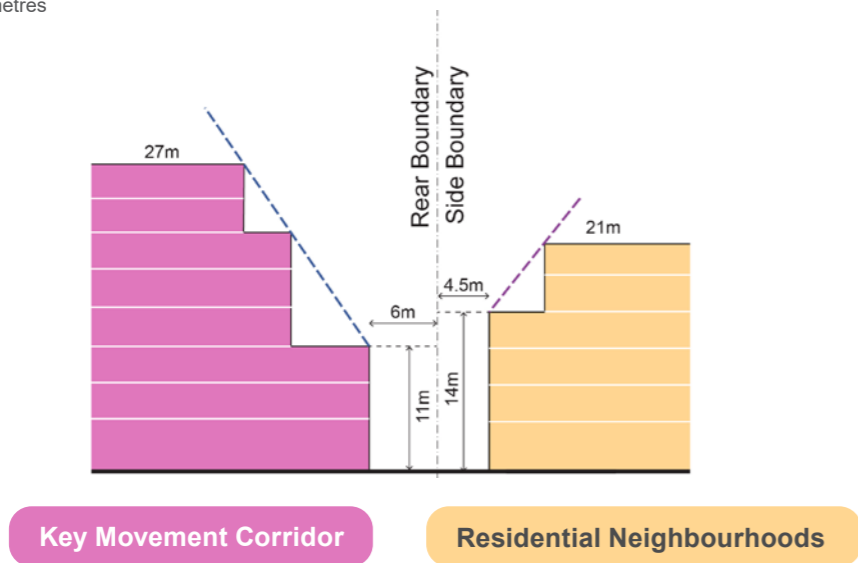


Figure 6.82: Interface section 6. Typical interface section indicative only

7 Strategic Sites to Residential Neighbourhoods

--- Set back additional 0.8 metres per metre of height above 14 metres



Figure 6.83: Interface section 7. Typical interface section indicative only

8 Residential Neighbourhoods to residential land outside Structure Plan Area

--- Set back additional 0.7 metres per metre of height above 11 metres

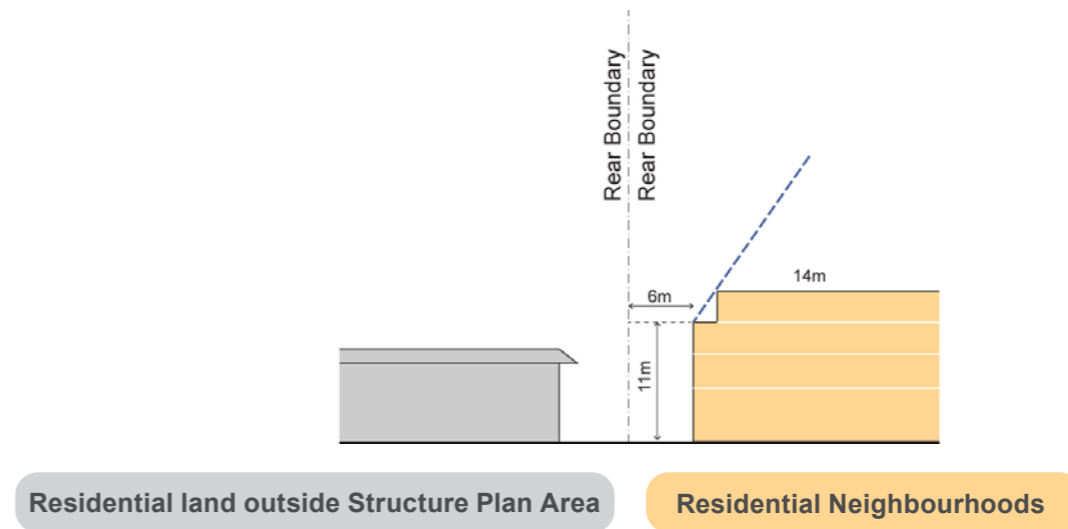


Figure 6.84: Interface section 8. Typical interface section indicative only



7 Recommendations summary

This report recommends a range of urban design initiatives to be incorporated within the Cheltenham Structure Plan. These initiatives will deliver a permeable and inviting public realm that promotes walking and street life, and a series of new urban character areas that will deliver the level of growth and diversity appropriate for this highly accessible and jobs-rich location.

The urban design initiatives are summarised below.

- 00 SRL Rail Scope
- 00 Structure Planning Scope Initiative/Recommendation
- SRL station at Cheltenham
- Structure Plan Area
- Boulevard
- Avenue
- Activity Street
- Green Street
- Green Street - New
- ✱ Work with land manager / owner to improve links and access through site
- ↔ Critical key link - fixed
- ↔ Important key link - flexible
- ↔ Local key link - flexible

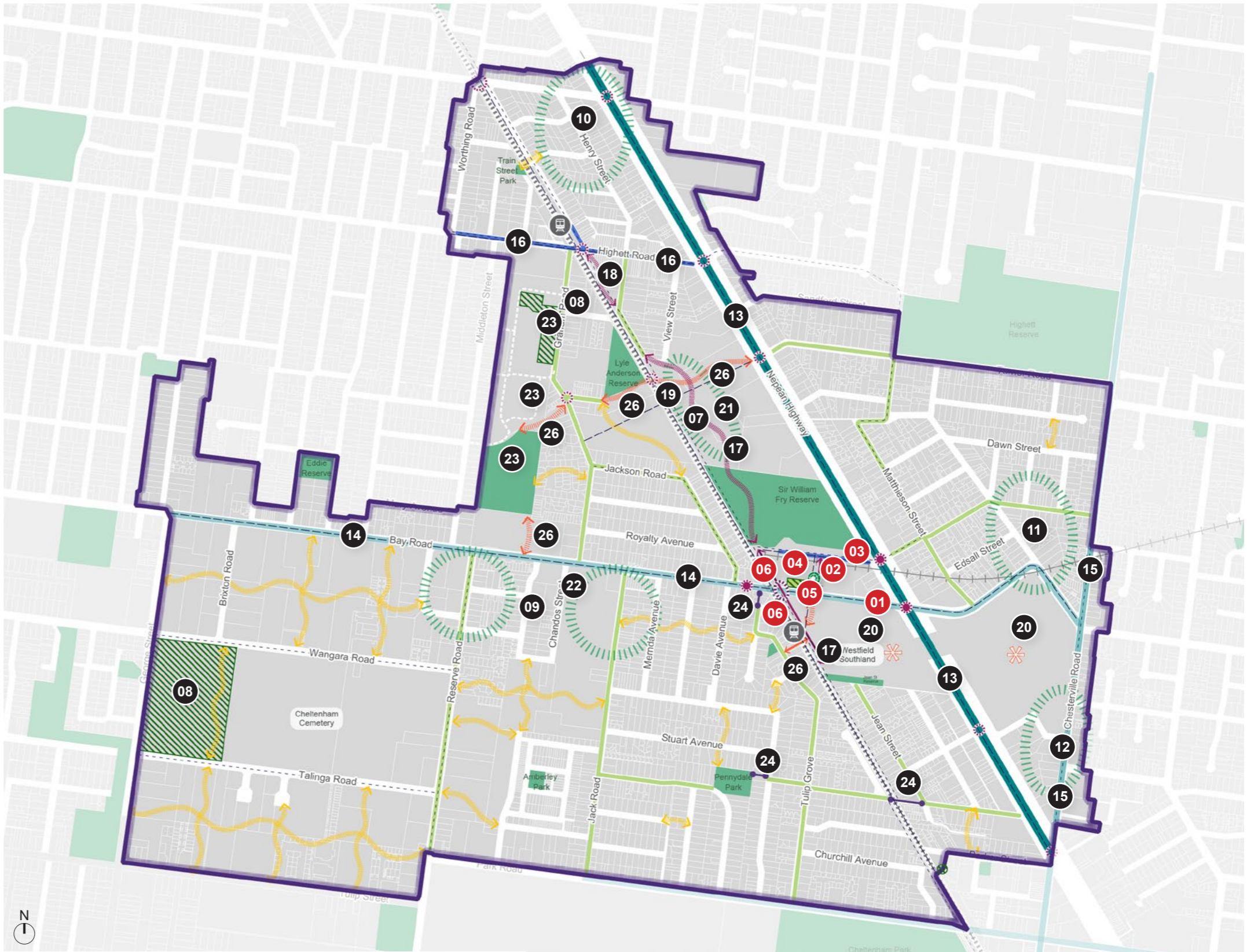


Figure 7.1: Implementation Plan (with public realm outcomes diagram base)

Ref.	Urban Design Initiatives / Recommendations
01.	Transforming Bay Road Deliver an enhanced Bay Road as part of the approved SRL station development with improved active transport crossing and connections.
02.	New central pedestrian spine at SRL station Deliver new high-quality pedestrian Critical link as part of the SRL station development, connecting Sir William Fry Reserve to the new Bay Road crossing.
03.	New SRL station east-west Activity Street Deliver a new east-west Activity Street adjacent to Sir William Fry Reserve, connecting Enright Street and to the new north-south cycling link along the Frankston rail line.
04.	New pedestrian links, SRL station through links Deliver new pedestrian links as part of the SRL station development to provide a choice of north south pedestrian routes through the station environs from Bay Road.
05.	SRL station entry public space Deliver a public space at the station entry as part of the SRL station development for people to pause and move through.
06.	SRL station new cycling link along the Frankston rail line Deliver a safe, seamless and direct cycling connection between the existing Southland Station and the SRL station at Cheltenham and Sir William Fry Reserve, including an elevated connection across Bay Road, as part of the SRL station development.
07.	Former Gasworks site open space Enable a new offset open spaces to be provided within the Former Gasworks redevelopment site as part of the SRL station development.
08.	New open space at 20 Wangara Road, Sandringham Plan for remediation and conversion of the Former Sandringham Driving Range site into a new 6-hectare passive open space.
09.	New open space(s) to 'close the gap' south of Bay Road Facilitate provision of a new high-quality open space(s) to address the gap in 400 metres open space walkable access to the south of Bay Road, around Reserve Road, Mernda Avenue and the Bayside Business District.
10.	New open space to 'close the gap' to north Facilitate provision of high-quality new open space(s) in the area north of Highett Station to address the gap in 400 metres open space walkable access.
11.	New open space to 'close the gap' to east Facilitate provision of high-quality new open space(s) in the area around the Dennis Street to address the gap in 400 metres open space walkable access.
12.	New open space to 'close the gap' to south-east Facilitate provision of new high-quality open space(s) in the area around Jellicoe Street and Chesterville Road to address the gap in 400 metres open space walkable access.
13.	Nepean Highway upgrades Enable upgrades to Nepean Highway to reinforces its role as a public transport corridor and to improve landscape and active transport outcomes.

Ref.	Urban Design Initiatives / Recommendations
14.	Bay Road, Karen Street and Tennyson Street upgrades Enable upgrades to Bay Road, Karen Street and Tennyson Street between Karen Street and Chesterville Road to reinforces their role as a public transport corridor and to improve landscape and active transport outcomes.
15.	Chesterville Road enhancements Facilitate enhanced public amenity, safe walking and cycling access, improved public transport facilities on Chesterville Road.
16.	Highett Road streetscape enhancements Enable streetscape improvements to Highett Road to enable enhanced priority for pedestrians and bike users, and to support public life and provide an attractive and comfortable pedestrian experience.
17.	New cycling connections along the Frankston rail line Enable a safe, seamless and direct cycling connection (critical link) along the Frankston rail line that connects to Southland Station, the new SRL station, Highett Stations and beyond to create a continuous north south connection through the area.
18.	New Critical link to Highett Station between View Lane and Station Street Deliver a new more direct pedestrian and cycling link between View Lane and Station Street along the Frankston rail line connecting to Highett Station.
19.	New grade-separated Frankston rail line crossing Plan for a new grade-separated pedestrian and cyclist connection across the Frankston rail line at the Gasworks site.
20.	Southland Shopping Centre Plan for enhanced public realm and good urban design outcomes including inviting and convenient pedestrian links through the site, and to new SRL station, Southland Station and Jean Street Reserve, and improved interfaces with the wider area.
21.	Highett Gasworks Site Provide for enhanced public realm and good urban design outcomes at the site at 1136-1138 Nepean Highway, including open space enhancements, new links to the SRL station, and to facilitate links across the rail line to Lyle Anderson Park.
22.	Laminex Site Investigate improvements to public realm at the site at 332 Bay Road including along Bay Road and residential areas to the east and south, and new links through the site and new open space [TBC].
23.	Highett Common Enable public realm improvements at site at 37 Graham Road and 32 Middleton Street (former CSIRO site) including new public space (to north), conservation space (to south) and through site links.
24.	Enhanced Important links for pedestrians Plan for enhancements to the existing links to be wider, safer and more attractive for pedestrians.
25.	New Important link for pedestrians between Southland Station and Tulip Grove Deliver a new east-west pedestrian link to improve connections to Southland Station for communities to the east.

Ref.	Urban Design Initiatives / Recommendations
	Green Streets improvements. Enable streetscape guidelines and/or streetscape improvements to existing local streets that support pedestrian connectivity and access to recreation facilities, enhanced environmental/biodiversity outcomes, and/or the potential to accommodate cycle and bus routes as appropriate at: <ul style="list-style-type: none"> • Dennis Street • Enright Street • Fir Grove • Graham Road • Heather Grove (between Fir Grove and Jean Lane) • Highett Grove • Jack Road • Jackson Road • Jean Street (north of Sinclair Street) • Olympic Avenue (west of Pennydale Park) • Peace Street, Stevens Street (between Pace Street and Matthieson Street) • Matthieson Street • Reserve Road • Sinclair Street • Tulip Grove • Turner Road
26	Important new pedestrian links Facilitate important new pedestrian links (Important key links) to reduce gaps in walking access to key destinations.
	New local pedestrian links Investigate new local pedestrian links (local key links) within development sites to improve permeability and local walking access.
-	Built form planning provisions. Provide built form provisions to achieve future character, public realm amenity and off-site amenity outcomes.
-	Public realm amenity planning provisions. Provide design provisions to achieve public realm amenity outcomes.